

ROYAL OBSERVATORY, GREENWICH.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE

AND

COMPUTATIONS

OF

APPARENT RIGHT ASCENSION.

1896.

NOTES.

The observations of transits are usually made by the galvanic or chronographic method, and are referred to the Sidereal Standard Clock. The wires employed are generally O, P, Q, R, S, T, U, V, W, X; in reversed order for stars S.P.; or for close circumpolar stars, one of these wires set to bisect the star at the times recorded, the corresponding Readings of the Transit-Micrometer being given in the notes. Occasionally the observations are made by eye and ear (E&E), the Clock Hardy being used. The wires then employed are M, N, O, T, X, Y, Z, for quickly-moving stars; O, P, Q, R, S, T, U, V, W, X, for stars nearer the pole; or for close circumpolar stars, one of these wires set to selected readings of the Transit-Micrometer given in the notes.

The reading of the Transit-Micrometer is $35^{\text{r}} 600$, except where otherwise noted.

One revolution of Transit-Micrometer = $37'' 10$.

The Clock-Errors noted with a † have been used in the reduction of observations made with the Altazimuth.

188800MM.58A...1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION, IN THE YEAR 1896.

[3]

MONTH AND DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896°.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Jan. 1	1	Polaris	S	32.3	44.5	51.1	4.2	10.5	16.6	24.9	31.4	38.2	51.6	1. 20. 54.18	+ 1.03	39.90	45.96	6.06	5.48	.....		
	2	ε Cassiopeiæ	S	16.9	22.4	27.9	38.8	44.3	50.0	6.4	11.7	17.0	23.0	1. 46. 49.86	(- 2.03)	50.11			[- 0.20]	1. 46. 55.58	- 0.56	
	3	ε Persei	S	28.9	32.1	35.4	41.8	45.1	48.4	58.0	1.3	4.3	7.7	3. 50. 48.31	[+ 6.68]	48.69				3. 50. 54.14	- 1.66	
	4	γ ¹ Eridani	S	50.9	53.4	56.0	1.1	3.5	6.2	13.9	16.2	18.9	21.5	3. 53. 6.17		6.71	12.06	5.35		.....		
	5	ν Tauri	S	18.1	20.6	22.9	28.1	30.5	33.0	40.4	42.9	45.2	48.0	3. 57. 32.98		33.47				3. 57. 38.92	- 1.47	
	6	α ¹ Tauri	S	50.6	53.1	56.0	1.2	3.9	6.6	14.6	17.1	19.8	22.5	3. 59. 6.55		6.99				3. 59. 12.44	- 1.53	
	7	α ¹ Eridani	S	28.0	30.5	32.8	37.8	40.4	42.9	50.4	52.7	55.3	57.9	4. 6. 42.88		43.40	48.79	5.39		.....		
	8	μ Tauri	S	33.9	36.2	38.8	43.8	46.4	48.9	56.2	58.8	1.3	3.9	4. 9. 48.83		49.30				4. 9. 54.75	- 1.53	
	9	γ Tauri	W	...	...	...	...	...	...	55.9	58.2	0.9	3.6	4. 13. 48.13		48.59	53.94	5.35	5.45	.....		
	10	δ ¹ Tauri	S	36.5	39.1	41.6	...	...	...	...	2.3	4.8	7.5	4. 16. 51.28		52.43			5.48	4. 16. 57.87	- 1.59	
	11	ε Tauri	W	12.6	15.1	17.8	23.1	25.6	28.1	36.2	38.6	41.4	44.1	4. 22. 28.27		28.71	34.17	5.46	5.45	.....		
Jan. 2	12	Polaris	B	48.6	11.0	18.1	28.1	2.2	2.2	0.1	5.0	...	...	1. 20. 54.64		40.36	44.94	4.58	5.33	.....		
	13	β Arietis	B	...	...	...	43.4	46.0	48.5	56.5	59.1	1.6	4.2	1. 48. 48.56		49.00	54.28	5.28	[- 0.15]	.....		
	14	γ ¹ Andromedæ ...	B	6.1	9.3	12.5	19.4	22.5	26.0	36.1	39.4	42.5	46.0	1. 57. 25.99		26.36				1. 57. 31.68	- 0.71	
	15	α Arietis	B	57.6	0.1	...	...	...	13.6	...	...	...	29.8	2. 1. 13.63		14.06	19.33	5.27		.....		
	16	γ Persei	B	...	50.9	55.1	3.4	7.6	...	...	...	...	...	2. 57. 11.62		11.94				2. 57. 17.25	- 1.39	
	17	β Persei	B	0.1	3.2	6.5	13.0	16.2	19.6	29.4	32.5	35.9	39.2	3. 1. 19.57		19.95				3. 1. 25.26	- 1.27	
	18	ε Aurigæ	B	51.6	54.5	57.5	...	...	...	...	21.1	24.0	27.0	4. 50. 9.29		9.70	15.07	5.37		.....		
	19	Capella	B	35.7	39.3	42.8	50.0	53.4	57.1	7.8	11.2	14.7	18.2	5. 8. 57.03		57.39				5. 9. 2.69	- 2.32	
	20	α Lyræ	EB	...	...	...	...	...	18.0	27.5	30.5	33.6	37.0	18. 33. 17.93	+ 1.26	18.17	23.58	5.41	5.41	.....		
Jan. 8	21	Polaris	WB	9.6	17.9	32.1	37.1	48.8	54.0	3.6	8.2	17.8	23.4	1. 20. 43.48	(- 0.04)	34.62	38.89	4.27	5.53	1. 20. 40.14	+ 14.96	
	22	β Arietis	WB	32.7	35.3	37.9	43.1	45.9	48.5	56.3	59.1	1.5	4.2	1. 48. 48.46	[+ 6.77]	48.80	54.21	5.41	[- 0.10]	.....		
	23	α Piscium	WB	20.0	22.3	24.9	29.8	32.1	34.8	42.2	44.7	47.1	49.7	1. 56. 34.77		35.19				1. 56. 40.71	- 0.81	
	24	α Arietis	WB	57.2	59.8	2.6	8.0	10.8	13.5	21.4	24.1	26.8	29.5	2. 1. 13.38		13.70	19.27	5.57		.....		
	25	6 Trianguli (1st Star) ..	WB	58.0	0.8	3.6	9.3	12.1	15.0	23.6	26.4	29.1	32.1	2. 6. 15.01		15.30				2. 6. 20.82	- 0.74	
	26	31 Arietis	WB	37.5	40.0	42.5	47.5	50.0	52.7	0.2	2.6	5.1	7.9	2. 30. 52.61		52.99				2. 30. 58.51	- 0.97	
	27	θ Persei	WB	38.5	42.1	45.9	53.4	57.1	0.8	12.0	16.0	19.5	23.5	2. 37. 0.89		1.05				2. 37. 6.57	- 1.02	
	28	41 Arietis	WB	30.1	32.9	35.8	41.4	44.0	46.8	55.1	58.0	0.7	3.5	2. 43. 46.84		47.14				2. 43. 52.66	- 1.03	
	29	Groomb. 2283 S.P.	WB	51.1	56.6	8.1	13.9	34.2	40.1	51.7	56.0	4.7	9.4	3. 10. 22.19		27.35				15. 10. 32.87	+ 11.73	
	30	o Tauri	WB	...	...	...	...	...	...	15.9	18.1	20.7	23.3	3. 19. 8.26		8.65	14.14	5.49		.....		
	31	Carrington 2363 S.P.	WB	16.5	24.1	36.9	41.3	51.6	56.2	6.5	11.5	27.5	33.5	3. 28. 11.64		16.35				15. 28. 21.87	+ 13.57	
	32	10 Tauri	WB	14.4	16.9	19.4	24.2	26.8	29.3	36.7	39.2	41.7	44.3	3. 31. 29.30		29.73				3. 31. 35.25	- 1.33	
	33	13 Tauri	WB	58.9	1.4	4.0	9.1	10.9	14.4	22.2	25.0	27.5	30.2	3. 36. 14.47		14.81				3. 36. 20.32	- 1.36	
	34	e Tauri	WB	14.4	16.9	19.4	24.5	27.0	29.5	37.1	39.5	42.1	44.6	3. 42. 29.51		29.90				3. 42. 35.41	- 1.38	
	35	ε Persei	WB	29.0	32.1	35.4	41.6	44.9	48.1	58.0	1.1	4.0	7.5	3. 50. 48.18		48.41				3. 50. 53.92	- 1.61	
	36	α ¹ Tauri	WB	12.2	14.9	17.5	22.9	25.6	28.3	36.3	38.9	41.5	44.5	3. 58. 28.27		28.60	34.21	5.61		.....		
	37	Spica	AC	22.1	24.7	27.2	32.1	34.7	37.3	44.9	47.2	49.8	52.2	13. 19. 37.23		37.72	43.16	5.44	5.39†	.....		
	38	Polaris S.P.	AC	54.7	3.2	12.5	26.9	57.8	7.5	16.8	28.8	...	...	13. 20. 24.62	[+ 6.29]	33.23	38.46	5.23		1. 20. 38.56	+ 15.39	
	39	ζ Virginis	AC	...	6.1	8.6	...	...	18.2	...	28.1	30.7	...	13. 29. 18.36	[+ 5.80]	18.74	23.96	5.22		.....		
	40	δ 2 L.	D	30.8	33.5	36.3	41.8	44.5	47.3	55.4	57.9	0.5	3.4	14. 24. 47.15		47.63			5.41	14. 23. 42.96		
	41	α Libræ	D	...	...	...	56.2	58.9	1.6	9.2	11.9	14.2	16.9	14. 45. 1.50		1.96	7.31	5.35	[- 0.07]	14. 45. 7.33	+ 0.10	
	42	Piazzi XIV. 212 ..	D	1.5	4.2	6.8	12.0	14.9	17.6	25.6	28.1	30.8	33.4	14. 51. 17.50		17.98				14. 51. 23.35	+ 0.17	
	43	Saturn 1 L.	D	...	...	6.0	11.1	13.8	16.2	23.8	26.5	29.1	31.9	15. 1. 16.30		17.32				15. 1. 22.69		
	44	Saturn 2 L.	D	...	...	7.2	12.1	14.9	17.5	25.0	27.7	30.2	32.9	15. 1. 17.44						.....		
	45	β Libræ	D	3.5	6.0	8.4	13.4	16.0	18.5	25.9	28.5	31.0	33.6	15. 11. 18.49			18.92	24.34	5.42		15. 11. 24.29	+ 0.18
Jan. 9	46	γ Aquilæ	D	57.2	59.8	2.3	7.2	9.9	12.2	19.9	22.2	24.9	27.5	19. 41. 12.32		12.67	17.98	5.31		19. 41. 18.02	+ 0.89	
	47	α Aquilæ	D	...	...	...	...	...	...	43.5	45.9	48.3	51.0	19. 45. 35.94		36.29	41.62	5.33		19. 45. 41.64	+ 0.88	
	48	ω Piscium	D	37.7	40.2	42.5	47.6	50.1	52.6	0.1	2.2	4.9	7.5	23. 53. 52.55		52.90	58.21	5.31		23. 53. 58.24	- 0.04	
	49	2 Ceti	D	3.6	6.1	8.7	14.0	16.6	19.1	27.1	29.5	32.1	34.7	23. 58. 19.16		19.63	25.00	5.37		23. 58. 24.97	- 0.27	
	50	Polaris	D	58.8	11.2	23.4	8.9	19.5	29.3	53.1	3.1	21.3	34.2	1. 20. 38.89		31.84	38.02	6.18	5.34	1. 20. 37.18	+ 15.83	

Correction for passage of Semidiameter, No. 40, — 70".06.

- Observed over wire X with the transit-micrometer set to readings 35°173, 35°289, 35°345, 35°444, 35°503, 35°543, 35°624, 35°693, 35°747, 35°851.
- 12, 13, 14, 15, 16, 17, 18, 20. Very faint; cloudy.
- Observed over wire X with the transit-micrometer set to readings 34°292, 34°986, 35°030, 35°128, 35°395, 35°960, 37°509, 37°542.
- Observed over wire T with the transit-micrometer set to readings 35°834, 35°906, 36°022, 36°088, 36°169, 36°230, 36°321, 36°362, 36°432, 36°471.
- Observed over wire O with the transit-micrometer set to readings 36°109, 35°996, 35°791, 35°698, 35°384, 35°262, 35°090, 35°002, 34°854, 34°774.
- Observed over wire V with the transit-micrometer set to readings 35°955, 35°790, 35°594, 35°488, 35°308, 35°208, 35°005, 34°919, 34°624, 34°520.
- Observed over wire S with the transit-micrometer set to readings 36°313, 36°268, 36°187, 36°060, 35°791, 35°702, 35°601, 35°529.
- Correction to R.A. on true meridian, + 0".02.
- Observed over wire T with the transit-micrometer set to readings 33°150, 33°275, 33°373, 33°762, 33°850, 33°924, 34°152, 34°223, 34°395, 34°524.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GQANM 58

MONTH and DAY.	No. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
s	s	s	s	s	s	s	s	s	s	h	m	s	''	s	s	s	s	h	m	s	s	
Jan. 9	1	Groomb.2283 S.P.	D	34.9	31.5	47.4	11.1	45.8	6.0	17.2	...	...	...	3. 10. 23.22	+ 1.26 (- 0.04)	27.35			5.34 [- 0.07]	15. 10. 32.68	+ 11.35	
	2	18 Ursæ Min. S.P.	D	...	...	...	...	10.1	25.3	40.0	9.1	...	...	3. 45. 10.28	[+ 5.80]	11.51				15. 45. 16.84	+ 3.94	
Jan. 10	3	ζ Pegasi	J	...	...	...	5.1	7.7	10.1	17.8	...	...	...	22. 36. 10.19	(+ 0.45)	10.56	16.02	5.46	5.44 [+ 0.02]	.....		
	4	α Andromedæ.....	W	37.8	40.6	43.5	49.0	51.9	54.7	3.1	6.0	8.8	11.7	0. 2. 54.72		55.02	0.42	5.40	5.40	.....		
	5	α Andromedæ..(E&E)	W	36.8	53.6	10.6	27.5	44.3	1.0	17.9	...	...	...	0. 2. 54.61		54.91	0.42	5.51		.....		
Jan. 12	6	Venus 2 L.	H	9.7	12.3	14.9	20.1	22.9	25.5	33.2	36.0	38.6	41.4	16. 36. 25.47	+ 0.74 (- 0.71)	25.86			5.32 [0.00]	16. 36. 30.54		
	7	α Lyræ	H	...	...	5.4	11.9	15.1	18.3	27.8	30.9	34.0	37.3	18. 33. 18.25	[+ 5.47]	18.35	23.66	5.31		18. 33. 23.67	+ 1.35	
Jan. 13	8	⊙ 1 L.....	H	13.1	15.8	18.4	23.6	26.4	29.2	37.1	39.9	42.4	45.2	19. 37. 29.12		39.75				19. 38. 45.07		
	9	⊙ 2 L.....	H	33.6	36.1	38.9	44.1	47.0	49.6	57.6	0.1	2.9	5.7	19. 39. 49.57								
	10	α Aquilæ	H	...	...	...	...	...	36.1	43.6	46.1	48.5	51.1	19. 45. 36.09		36.35	41.66	5.31		19. 45. 41.67	+ 0.84	
	11	γ Pegasi.....	H	31.8	34.3	36.9	42.0	44.6	47.1	54.8	57.4	59.9	2.5	0. 7. 47.14		47.37	52.74	5.37		0. 7. 52.69	+ 0.01	
	12	Polaris	H	37.2	45.2	54.9	18.2	26.1	20.6	28.9	37.2	1.5	10.6	1. 20. 38.69		29.02	34.53	5.51		.....		
	13	η Piscium	H	34.5	37.1	39.7	44.8	47.4	50.0	57.7	0.0	2.6	5.4	1. 25. 49.93		50.16	55.46	5.30		1. 25. 55.48	- 0.48	
Jan. 14	14	67 Ceti	B	...	...	...	37.9	40.2	42.9	50.2	52.8	55.2	57.8	2. 11. 42.82		43.15	48.57	5.42	5.46 [0.00]	2. 11. 48.61	- 0.88	
	15	0 Ceti.....	B	45.6	48.1	50.7	55.5	58.1	0.6	8.1	10.4	12.8	15.5	2. 14. 0.55		0.87				2. 14. 6.33	- 0.88	
	16	ε ² Ceti.....	B	17.9	20.2	22.9	27.9	30.2	32.9	40.3	42.9	45.3	48.0	2. 22. 32.86		33.12	38.53	5.41		2. 22. 38.58	- 0.87	
	17	ε ² Ceti.....(E&E)	B	21.7	36.8	51.7	6.6	21.6	36.6	51.5	...	...	...	2. 22. 32.81		33.07	38.53	5.46		.....		
	18	σ Ceti.....	B	49.2	51.8	54.2	59.4	2.0	4.7	12.3	14.8	17.4	20.0	2. 27. 4.59		4.97				2. 27. 10.43	- 1.02	
	19	Piazzi II. 123 ...	B	...	...	...	12.9	15.3	17.8	25.3	27.8	30.1	32.8	2. 30. 17.82		18.10				2. 30. 23.56	- 0.93	
	20	ν Arietis.....	B	33.9	36.5	39.2	44.4	47.1	49.8	57.8	0.3	3.0	5.6	2. 32. 49.77		49.97				2. 32. 55.43	- 0.89	
	21	ε Ceti	B	12.0	14.5	17.0	22.0	24.7	27.2	34.9	37.2	39.8	42.3	2. 34. 27.17		27.53				2. 34. 32.99	- 1.04	
	22	μ Arietis	B	9.6	12.1	14.8	20.0	22.6	25.4	33.2	35.8	38.1	41.1	2. 36. 25.28		25.49				2. 36. 30.95	- 0.92	
	23	0 Ceti	B	59.4	1.9	4.2	9.4	11.8	14.4	21.9	24.5	26.7	29.5	2. 39. 14.38		14.64				2. 39. 20.10	- 0.97	
	24	η Persei	B	36.0	40.2	44.5	53.4	57.9	2.0	15.3	19.5	23.8	28.2	2. 43. 2.09		2.06				2. 43. 7.52	- 1.01	
	25	41 Arietis	B	...	...	...	...	44.2	47.0	55.4	58.1	0.9	3.6	2. 43. 47.03		47.20				2. 43. 52.66	- 0.96	
	26	τ Persei	B	24.1	28.2	32.1	40.2	44.5	48.4	0.8	4.7	8.7	12.8	2. 46. 48.46		48.45				2. 46. 53.91	- 1.04	
	27	ι Aurigæ	B	...	...	...	57.6	3.5	6.5	9.5	18.2	21.2	...	4. 50. 9.43		9.58	15.05	5.47		4. 50. 15.04	- 1.88	
	28	ε Aurigæ	B	...	...	...	13.1	20.0	23.4	26.9	37.3	40.6	...	4. 54. 26.89		26.96				4. 54. 32.42	- 2.14	
	29	ζ Aurigæ	B	...	52.6	56.0	2.2	5.6	9.0	18.9	22.0	25.1	...	4. 55. 8.95		9.05				4. 55. 14.51	- 2.08	
	30	η Aurigæ	B	50.1	53.3	56.5	3.1	6.4	9.9	19.7	22.8	26.1	29.5	4. 59. 9.75		9.85				4. 59. 15.31	- 2.11	
	31	μ Aurigæ	B	56.4	59.4	2.5	8.9	12.0	15.1	24.6	27.9	30.8	34.1	5. 6. 15.18		15.28				5. 6. 20.74	- 2.09	
	32	Capella	B	36.0	39.4	42.8	50.0	53.5	57.2	8.0	11.3	14.7	18.5	5. 8. 57.15		57.20				5. 9. 2.66	- 2.31	
	33	β Tauri	B	22.5	25.2	28.1	33.7	36.6	39.4	47.8	50.7	53.4	56.2	5. 19. 39.37		39.54	44.98	5.44		5. 19. 45.00	- 1.97	
	34	β Tauri.....(E&E)	B	22.6	39.5	56.2	13.1	30.1	47.0	3.8	...	...	...	5. 19. 39.30		39.47	44.98	5.51		.....		
	35	δ Ursæ Min. S.P.	B	11.7	1.4	16.1	32.2	50.5	4.9	...	...	...	...	6. 5. 16.23		20.12	25.33	5.21		.....		
	36	η Geminorum ...	B	16.2	18.9	21.6	26.9	29.9	32.4	40.5	43.1	45.6	48.5	6. 8. 32.37		32.56	38.05	5.49		6. 8. 38.02	- 2.08	
	37	5 Monocerotis ...	B	...	...	...	...	43.0	50.5	52.9	55.4	58.0	...	6. 9. 43.02		43.35				6. 9. 48.81	- 1.84	
	38	μ Geminorum ...	B	20.4	23.2	25.8	31.2	33.8	36.5	44.5	47.3	49.9	52.6	6. 16. 36.53		36.72	42.19	5.47		6. 16. 42.18	- 2.11	
	39	β Canis Majoris ..	B	47.5	50.1	52.7	57.9	0.5	3.1	10.9	13.5	16.0	18.8	6. 18. 3.11		3.49	8.97	5.48		6. 18. 8.95	- 1.84	
	40	Sirius.....	B	...	...	...	24.8	27.5	30.1	37.7	40.2	42.7	45.5	6. 40. 29.99		30.37				6. 40. 35.83	- 1.86	
	41	θ Geminorum ...	B	35.0	38.0	40.9	46.9	49.9	53.0	1.9	4.8	7.8	10.8	6. 45. 52.91		53.04				6. 45. 58.50	- 2.43	
	42	Cephei 51	B	35.2	43.0	47.2	12.8	18.6	53.5	6.6	13.4	29.1	40.9	6. 52. 20.11		15.95	20.98	5.03		.....		
	43	ε Canis Majoris ..	B	11.3	14.1	17.0	22.6	25.5	28.2	36.7	39.5	42.2	45.2	6. 54. 28.24		28.70	34.15	5.45		6. 54. 34.16	- 1.90	
	44	γ Canis Majoris ..	B	43.8	46.2	49.0	54.0	56.5	59.2	6.9	9.4	12.0	14.6	6. 58. 59.17		59.55	5.00	5.45		6. 59. 5.01	- 1.87	
	45	δ Canis Majoris ..	B	49.1	52.0	54.7	0.2	2.9	5.8	14.0	16.7	19.5	22.2	7. 4. 5.72		6.15				7. 4. 11.61	- 1.89	
	46	53 Geminorum R.	B	33.6	50.4	7.2	10.0	12.9	...	...	...	...	...	7. 9. 24.01		24.28				7. 9. 29.74	- 2.34	
	47	53 Geminorum ...	B	...	...	...	...	...	...	38.1	40.9	57.9	14.5	7. 9. 24.19		24.36				7. 9. 29.82	- 2.34	
	48	ι Geminorum ..R.	B	22.3	39.1	55.9	58.5	1.4	...	...	...	...	...	7. 19. 12.62		12.89				7. 19. 18.35	- 2.35	
	49	ι Geminorum	B	...	...	...	...	24.0	26.7	29.6	46.4	3.1	...	7. 19. 12.81		12.98				7. 19. 18.44	- 2.35	
	50	Piazzi VII. 161...	B	35.4	38.1	40.8	46.1	49.1	51.8	0.0	2.3	5.1	8.1	7. 32. 51.69		51.87				7. 32. 57.33	- 2.29	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 5, 17, and 34, + 27^s.22 : + 26^s.17 : and + 26^s.11.
Correction for passage of Semidiameter, No. 6, — 0^s.64.

1. Observed over wire O with the transit-micrometer set to readings 36^r.374, 35^r.444, 35^r.173, 34^r.783, 34^r.182, 33^r.839, 33^r.652. 3, 35, 43, 50. Very faint; cloudy.
12. Observed over wire T with the transit-micrometer set to readings 34^r.018, 34^r.081, 34^r.168, 34^r.370, 34^r.441, 35^r.957, 36^r.050, 36^r.110, 36^r.323, 36^r.401.
25, 26, 31. Cloudy.
35. Observed over wire U with the transit-micrometer set to readings 36^r.980, 35^r.850, 35^r.455, 35^r.079, 34^r.660, 34^r.310.
42. Observed over wire R with the transit-micrometer set to readings 34^r.383, 34^r.520, 34^r.604, 35^r.111, 35^r.242, 35^r.920, 36^r.179, 36^r.300, 36^r.610, 36^r.836.
46, 48. Observed over wires M, N, O, P and Q. 47. Observed over wires W, X, Y and Z. 49. Observed over wires V, W, X, Y and Z.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rately Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Jan. 14	1	κ Geminorum ...	B	...	...	56.0	1.4	4.0	6.7	14.9	17.6	...	...	7.38. 6.78	+ 0.74	6.96			5.46	7.38. 12.42	- 2.29
	2	Pollux	B	36.9	39.8	42.5	48.2	51.0	53.9	2.1	4.9	7.7	10.7	7.38. 53.78	(- 0.71)	53.95	59.50	5.55	[0.00]	7.38. 59.41	- 2.36
	3	9 Puppis	B	38.1	40.6	43.1	48.1	50.8	53.2	...	...	...	39.1	7.46. 53.32	[+ 5.47]	53.69				7.46. 59.15	- 1.86
	4	1 Cancri	B	46.1	48.6	51.1	56.3	59.0	1.5	9.3	11.8	14.2	16.9	7.51. 1.49		1.72				7.51. 7.18	- 2.14
	5	ω ² Cancri	B	7.5	10.1	13.1	18.5	21.3	24.0	32.2	35.0	37.6	40.5	7.55. 23.99		24.17				7.55. 29.63	- 2.31
	6	6 Cancri	B	47.8	50.5	53.4	58.9	1.8	4.5	13.0	15.8	18.5	21.5	7.57. 4.58		4.75	10.22	5.47		7.57. 10.21	- 2.37
	7	Bradley 1147...R.	B	30.1	40.9	50.2	11.4	21.7	32.0	...	...	...	...	8. 6. 31.96		31.71				8. 6. 37.17	- 8.16
	8	Bradley 1147.....	B	...	...	...	...	...	...	2.1	12.5	22.6	33.5	8. 6. 31.42		30.81				8. 6. 36.27	- 8.16
	9	29 Cancri	B	30.1	32.8	35.3	40.2	42.9	45.6	53.2	55.7	58.1	0.9	8.22. 45.49		45.72				8.22. 51.18	- 2.09
	10	η Cancri	B	...	25.0	27.6	33.0	35.6	38.2	46.1	48.8	51.5	...	8.26. 38.25		38.46	43.88	5.42		8.26. 43.92	- 2.19
	11	Jupiter 1 L.	B	18.9	...	24.1	...	...	34.6	...	45.2	...	50.6	8.31. 34.68		36.55				8.31. 42.01	-
	12	Jupiter 2 L.	B	22.1	...	27.5	...	...	38.0	...	48.5	...	53.9	8.31. 38.00							
	13	ε Hydre	B	57.3	59.9	2.3	7.3	10.0	12.3	19.9	22.2	24.7	27.3	8.41. 12.33		12.61	18.01	5.40		8.41. 18.07	- 1.95
Jan. 15	14	ζ Cephei	S	...	...	...	...	...	7.1	21.1	25.7	30.1	34.9	22. 7. 7.15	(- 1.31)	7.01			5.40	22. 7. 12.39	+ 2.29
	15	α Pegasi	S	13.5	16.0	18.5	23.7	26.1	28.9	36.5	39.1	41.6	44.2	22. 59. 28.82	[+ 4.89]	29.00	34.36	5.36	[- 0.02]	22. 59. 34.38	+ 0.40
	16	β Ceti	HA	1.1	3.5	6.1	11.5	14.1	16.7	24.7	27.0	29.8	32.3	0.38. 16.69		17.03	22.57	5.54		.....	.....
	17	δ Piscium	HA	...	59.2	1.8	6.8	9.3	11.8	19.2	21.7	24.1	...	0.43. 11.76		11.98	17.36	5.38		.....	.....
	18	θ Ceti	S	29.4	31.9	34.2	39.4	42.0	44.3	52.0	54.3	56.9	59.5	1.18. 44.40		44.69	50.02	5.33	5.38	1.18. 50.07	- 0.59
	19	Polaris	S	34.1	41.8	54.5	1.2	14.6	20.7	34.1	58.7	11.1	28.2	1.20. 40.02		29.96				1.20. 35.34	+ 21.35
	20	Piazzi I. 110	S	50.7	53.1	56.0	1.1	3.9	6.2	14.1	16.7	19.3	22.0	1.29. 6.32		6.48				1.29. 11.86	- 0.46
	21	105 Piscium	S	43.6	46.1	48.8	54.0	56.5	59.1	6.9	9.4	11.9	14.5	1.33. 59.09		59.27				1.34. 4.65	- 0.51
	22	Groomb. 2033 S.P.	S	7.5	12.1	16.6	20.9	34.1	38.8	43.2	52.0	56.6	1.1	1.38. 34.28		34.80				13.38. 40.18	- 1.12
	23	Piazzi I. 182	S	...	...	...	6.8	9.5	11.9	19.5	22.0	24.5	...	1.44. 11.94		12.24				1.44. 17.62	- 0.75
	24	χ Ceti	S	8.4	11.2	13.6	18.6	21.2	23.6	31.2	33.6	36.2	38.9	1.44. 23.66		23.96				1.44. 29.34	- 0.75
	25	α ² Piscium	S	20.0	22.4	24.9	29.9	32.4	34.9	...	...	...	...	1.56. 34.85		35.09				1.56. 40.47	- 0.74
	26	α ² Piscium	S	...	...	...	...	...	42.5	44.9	47.4	50.0	...	1.56. 35.08		35.32				1.56. 40.70	- 0.74
	27	α Arietis	S	57.5	0.1	2.8	8.1	10.9	13.5	21.8	24.3	27.1	30.0	2. 1. 13.62		13.76	19.19	5.43		2. 1. 19.14	- 0.65
	28	Bradley 332	S	47.4	53.9	0.0	12.5	19.0	25.3	44.1	50.4	56.9	3.2	2.20. 25.29		24.98				2.20. 30.36	- 0.64
	29	7-Yr. Cat. (1860) No. 156	S	...	...	...	13.6	20.1	26.4	45.5	...	...	...	2.20. 26.42		26.11				2.20. 31.49	- 0.64
	30	σ Ceti	S	49.4	51.9	54.5	...	...	...	15.0	17.5	20.1	...	2.27. 4.74		5.06				2.27. 10.44	- 1.01
	31	ν Ceti	S	5.4	7.9	10.2	15.2	17.9	20.1	27.7	30.1	32.6	35.3	2.30. 20.25		20.48	25.81	5.33		2.30. 25.86	- 0.92
	32	ν Arietis	S	34.0	36.6	39.4	44.6	47.4	50.0	58.0	0.6	3.2	6.0	2.32. 49.99		50.13				2.32. 55.51	- 0.88
	33	ν Arietis	S	59.6	2.1	5.3	10.7	13.5	16.2	24.8	27.5	30.2	33.1	2.37. 16.31		16.43				2.37. 21.81	- 0.90
	34	η Persei	S	36.0	40.4	44.8	53.4	58.0	2.2	15.3	19.6	24.0	28.5	2.43. 2.24		2.13				2.43. 7.51	- 0.98
	35	Piazzi III. 51 ...	S	5.7	10.5	15.4	25.2	30.1	35.0	49.8	54.6	59.3	4.4	3.20. 35.02		34.86				3.20. 40.24	- 1.57
	36	Groombridge 685	S	...	...	...	13.1	22.6	31.9	59.4	...	...	...	3.26. 31.78		31.19				3.26. 36.57	- 2.52
	37	11 Tauri	S	12.9	15.8	18.3	23.9	26.6	29.5	37.6	40.2	42.9	45.9	3.34. 29.37		29.49	34.82	5.33		3.34. 34.87	- 1.31
	38	ν Persei	S	43.6	47.0	50.3	57.0	0.5	3.9	13.9	17.1	20.3	24.0	3.38. 3.77		3.79				3.38. 9.17	- 1.47
	39	18 Ursæ Min. S.P.	S	...	...	...	...	...	40.1	9.2	24.4	38.5	...	3.45. 10.49		12.00				15.45. 17.38	+ 3.33
	40	ξ Persei	S	50.7	53.9	56.9	2.8	6.0	9.0	18.1	21.1	24.1	27.3	3.52. 9.00		9.07				3.52. 14.45	- 1.51
	41	ν Tauri	S	18.2	20.8	23.3	28.1	30.7	33.1	40.5	43.0	45.5	48.1	3.57. 33.14		33.36				3.57. 38.74	- 1.40
	42	ω ¹ Tauri	S	46.5	49.2	51.8	56.9	59.8	2.2	10.1	12.7	15.4	18.1	4. 3. 2.28		2.43	7.79	5.36		4. 3. 7.81	- 1.47
	43	f Persei	S	25.4	28.7	32.0	38.1	41.8	44.9	54.6	57.9	1.1	4.4	4. 7. 44.90		44.93				4. 7. 50.31	- 1.69
	44	Groombridge 811	S	20.0	26.0	32.0	43.9	49.6	55.5	12.9	18.8	24.5	30.7	4.13. 55.41		55.15				4.14. 0.53	- 2.65
	45	8 ^a Tauri	S	8.6	11.3	14.0	19.1	21.6	24.2	32.0	34.7	37.2	40.0	4.19. 24.28		24.44				4.19. 29.82	- 1.55
	46	Lalande F. 2811 S.P.	S	...	...	...	10.8	11.4	31.3	52.0	...	...	...	4.24. 11.32		13.29				16.24. 18.67	+ 6.93
	47	Aldebaran	D	37.7	40.2	42.9	48.0	50.5	53.1	0.8	3.6	6.0	8.6	4.29. 53.15		53.31	55.68	5.37	5.38	.....	.....
	48	τ Tauri	D	40.1	42.9	45.5	50.9	53.6	56.2	4.3	7.0	9.6	12.2	4.35. 56.24		56.38	1.77	5.39		.....	.....
	49	Groombridge 881	S	...	...	...	14.7	19.3	23.8	37.1	...	...	...	4.43. 23.74		23.62			5.38	4.43. 29.00	- 2.50
	50	ω Eridani	S	28.0	30.5	33.0	37.9	40.4	43.0	50.5	52.9	55.4	57.9	4.47. 42.96		43.23				4.47. 48.61	- 1.61
	51	Groomb. 2398 S.P.	S	...	...	...	...	34.0	44.0	54.2	13.9	23.3	34.0	4.52. 34.14		35.19				16.52. 40.57	+ 3.89
	52	Groomb. 2406 S.P.	S	...	...	...	29.0	58.6	8.6	18.8	...	...	...	4.55. 58.72		59.77				16.56. 5.15	+ 3.97
	53	Neptune	S	...	9.4	12.0	...	...	...	...	33.1	35.8	...	4.58. 22.61		22.75				4.58. 28.13	.....

3. Observed over wires O, P, Q, R, S, T and Z.

3, 13, 33, 34. Very faint; cloudy.

11, 12. Limb ill-defined; hazy.

19. Observed over wire T with the transit-micrometer set to readings 35° 02.9, 35° 09.8, 35° 19.4, 35° 26.2, 35° 37.7, 35° 42.8, 35° 54.2, 35° 76.2, 35° 87.8, 36° 02.1.

50. Very diffused and tremulous.

1898 GO. MM. 563...1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Jan. 15	1	ρ Orionis	S	...	...	...	42.1	44.8	47.2	54.7	57.1	59.6	2.1	5. 7. 47.22	+ 0.74	47.45			5.38	5. 7. 52.83	- 1.70	
	2	τ Orionis	S	14.3	16.8	19.5	24.2	26.9	29.5	36.7	39.2	41.8	44.2	5. 12. 29.32	(- 1.31)	29.60			[- 0.02]	5. 12. 34.98	- 1.70	
	3	Bradley 750	S	54.5	56.9	59.5	...	...	...	...	19.2	21.6	24.1	5. 16. 9.31	[+ 4.89]	9.57				5. 16. 14.95	- 1.72	
	4	σ Orionis	S	8.3	10.8	13.2	...	...	...	...	33.1	35.5	38.1	5. 16. 23.18		23.44				5. 16. 28.82	- 1.72	
	5	ϕ Orionis	S	...	...	...	22.5	25.1	27.5	34.9	37.4	40.0	42.5	5. 33. 27.55		27.81				5. 33. 33.19	- 1.77	
	6	Groombridge 1001	S	...	...	59.9	20.0	30.0	40.2	10.7	20.6	...	...	5. 38. 40.27		39.59				5. 38. 44.97	- 6.26	
	7	ψ Draconis S.P.	S	...	...	...	12.3	37.0	44.9	53.2	...	...	...	5. 43. 36.82		37.70				17. 43. 43.08	+ 3.99	
	8	Bradley 2252 S.P.	S	...	...	...	14.1	38.9	46.7	54.9	...	...	...	5. 43. 38.62		39.50				17. 43. 44.88	+ 3.99	
	9	γ Draconis S.P.	S	...	...	...	51.9	3.9	8.0	12.0	...	...	...	5. 54. 3.94		4.40				17. 54. 9.78	+ 1.65	
	10	Groombridge 1059	S	...	...	...	43.6	54.8	5.3	37.1	...	...	...	6. 0. 5.23		4.51				6. 0. 9.88	- 6.99	
	11	ν Orionis	S	...	...	...	...	...	...	42.1	44.6	47.1	49.9	6. 1. 34.44		34.62	39.94	5.32		6. 1. 39.99	- 1.96	
	12	δ Ursæ Min. S.P.	S	37.5	44.9	57.8	4.5	15.7	20.9	32.1	37.8	52.9	58.4	6. 5. 16.08		20.03	25.40	5.37		18. 5. 25.40	+ 25.25	
	13	η Geminorum	S	16.2	18.9	21.8	27.0	29.8	32.4	40.4	43.1	45.9	48.6	6. 8. 32.42		32.56	38.06	5.50		6. 8. 37.93	- 2.09	
	14	Groombridge 2559 S.P.	S	...	...	...	26.3	38.2	42.0	46.6	...	...	...	6. 19. 38.27		38.73				18. 19. 44.10	+ 1.82	
	15	Groombridge 2617 S.P.	S	...	...	...	28.9	46.6	52.7	58.9	...	...	...	6. 30. 46.76		47.44				18. 30. 52.81	+ 3.22	
	16	Piazzi XVIII. 173 S.P.	S	...	...	...	26.5	44.3	50.3	56.2	...	...	...	6. 35. 44.31		44.99				18. 35. 50.36	+ 3.26	
	17	Sirius	S	14.6	17.1	19.9	24.9	27.4	30.0	38.0	40.3	42.9	45.7	6. 40. 30.08		30.41				6. 40. 35.78	- 1.86	
	18	W. B. (2) VII. 327	S	51.6	54.1	56.9	2.2	4.9	7.6	15.6	18.3	21.0	23.8	7. 13. 7.61		7.75				7. 13. 13.12	- 2.23	
	19	δ Geminorum	S	35.4	38.0	40.7	46.0	48.7	51.4	59.4	2.1	4.9	7.5	7. 13. 51.42		51.56	56.92	5.36		7. 13. 56.93	- 2.23	
	20	α Geminorum	S	37.1	40.0	42.9	...	...	...	...	6.0	9.1	12.0	7. 27. 54.53		54.62				7. 27. 59.99	- 2.47	
	21	Castor	S	...	...	...	49.0	52.0	54.8	3.6	...	...	...	7. 27. 54.86		54.95	0.34	5.39		7. 28. 0.32	- 2.47	
	22	η Cancri	S	22.6	25.0	27.9	32.9	35.8	38.3	46.2	48.9	51.4	54.1	8. 26. 38.32		38.47	43.90	5.43		8. 26. 43.84	- 2.21	
	23	Jupiter 1 L.	S	47.5	...	52.5	...	...	2.9	...	13.5	...	18.9	8. 31. 3.06						8. 31. 10.14		
	24	Jupiter 2 L.	S	50.4	...	55.6	...	...	6.1	...	16.8	...	22.0	8. 31. 6.18		4.77						
	25	ϵ Hydræ	S	57.5	0.0	2.4	7.3	10.0	12.4	20.0	22.4	24.9	27.4	8. 41. 12.44		12.66	18.03	5.37		8. 41. 18.03	- 1.97	
	26	δ Ursæ Minoris ...	DE	15.2	35.4	42.0	48.0	55.7	5.9	13.1	20.5	27.8	40.0	18. 5. 23.63		20.08	25.44	5.36	5.43	18. 5. 25.49	+ 25.21	
	27	α Lyrae	DE	59.3	2.3	5.6	11.9	15.1	18.2	27.9	30.9	34.0	37.4	18. 33. 18.27		18.31	23.72	5.41		.....		
Jan. 16	28	β Librae	RC	...	6.3	8.9	13.9	16.3	18.9	26.2	28.9	31.5	...	15. 11. 18.88	(- 1.83) [+ 5.89]	19.21	24.60	5.39	5.37 [- 0.02]	15. 11. 24.57	- 0.08	
Jan. 17	29	$\odot$ 1 L.	RC	...	...	...	35.8	38.3	41.4	49.1	...	...	...	19. 54. 41.16		41.57				19. 55. 56.78		
	30	ζ 1 Piscium	HF	...	...	...	...	...	...	...	27.8	42.7	57.5	1. 8. 12.83		13.07	18.12	5.05	5.22†	.....		
	31	Polaris	RC	6.5	15.0	22.8	32.9	43.1	54.2	2.4	11.2	19.4	26.9	1. 20. 37.45		24.24	30.32	6.08	5.35	.....		
	32	η Piscium	RC	34.6	37.1	39.7	44.6	47.2	49.9	57.5	0.1	2.6	5.2	1. 25. 49.86		50.05	55.41	5.36		1. 25. 55.40	- 0.43	
	33	ν Piscium	RC	41.0	43.6	46.1	51.0	53.5	56.0	3.5	6.0	8.4	10.9	1. 35. 56.01		56.25	1.60	5.35		1. 36. 1.60	- 0.56	
	34	ϕ Piscium	RC	34.0	36.5	38.9	44.0	46.4	49.0	56.5	59.1	1.5	4.1	1. 39. 49.01		49.24	54.56	5.32		1. 39. 54.59	- 0.57	
	35	χ Ceti	RC	8.3	10.9	13.4	18.5	21.1	23.6	31.3	33.7	36.1	38.8	1. 44. 23.58		23.92				1. 44. 29.27	- 0.73	
	36	β Arietis	RC	...	...	38.0	43.3	46.0	48.6	56.5	59.3	...	...	1. 48. 48.63		48.79	54.11	5.32		1. 48. 54.14	- 0.55	
	37	ζ Cassiopeiæ	RC	40.1	48.1	56.1	12.0	20.2	28.2	52.0	59.9	7.6	16.0	1. 54. 28.05		27.40				1. 54. 32.75	+ 0.15	
	38	Piazzi XIII. 306 S.P.	RC	46.0	52.9	59.9	6.6	27.8	34.6	41.8	55.6	2.4	9.4	1. 59. 27.68		28.67				13. 59. 34.02	- 1.22	
	39	Groombridge 478	RC	...	...	...	4.7	18.0	31.1	10.9	...	...	...	2. 13. 31.22		29.94				2. 13. 35.29	- 0.08	
	40	ξ Ceti	HF	18.0	20.5	23.0	27.9	30.5	32.9	40.4	42.9	45.4	48.0	2. 22. 32.96		33.19	38.49	5.30	5.22†	.....		
	41	Groombridge 2118 S.P.	RC	30.5	35.7	40.7	46.0	0.8	6.1	11.1	21.5	26.5	31.7	2. 26. 1.04		1.78				14. 26. 7.13	- 0.57	
	42	Groombridge 569	RC	8.5	16.4	24.5	41.3	49.6	57.8	22.0	30.0	37.9	46.3	2. 47. 57.46		56.79				2. 48. 2.14	- 1.22	
	43	α Ceti	RC	31.1	33.6	36.0	41.0	43.5	45.9	53.5	55.9	58.4	0.6	2. 56. 45.96		46.22	51.55	5.33		2. 56. 51.57	- 1.05	
	44	Bradley 417	RC	...	...	0.7	18.2	27.5	36.3	3.2	12.1	...	...	3. 0. 36.37		35.60				3. 0. 40.95	- 1.64	
	45	Piazzi III. 51	RC	5.8	10.5	...	...	...	35.0	49.6	54.5	...	4.2	3. 20. 34.97		34.72				3. 20. 40.07	- 1.52	
	46	Groombridge 677	RC	...	...	20.9	39.3	48.1	57.4	25.0	33.7	...	...	3. 24. 57.44		56.64				3. 25. 1.99	- 2.36	
	47	Groombridge 2273 S.P.	RC	...	...	15.2	19.3	...	35.8	40.0	48.4	...	...	3. 41. 31.72		32.32				15. 41. 37.67	+ 0.39	
	48	ϵ Persei	RC	29.1	32.2	35.6	42.0	45.1	48.5	58.1	1.2	4.3	7.8	3. 50. 48.40		48.40				3. 50. 53.75	- 1.52	
	49	Groombridge 2300 S.P.	RC	...	...	30.9	39.5	...	12.8	20.5	37.2	...	...	3. 55. 4.14		5.28				15. 55. 10.63	+ 1.72	
	50	Groombridge 2302 S.P.	RC	...	59.4	3.3	7.5	19.6	23.8	...	...	40.3	44.5	3. 59. 19.75		20.35				15. 59. 25.70	+ 0.60	
	51	Groombridge 2312 S.P.	RC	26.1	34.0	41.1	48.2	10.2	17.9	25.4	40.0	47.4	54.7	4. 3. 10.47		11.51				16. 3. 16.86	+ 1.64	
	52	δ 1 Tauri	RC	36.6	39.2	41.8	46.9	49.6	52.1	0.0	2.4	5.0	7.8	4. 16. 52.15		52.32				4. 16. 57.67	- 1.52	

Correction for passage of Semidiameter, No. 29, + 69^s.86.

12. Observed over wire T with the transit-micrometer set to readings 36^s.536, 36^s.358, 36^s.041, 35^s.864, 35^s.597, 35^s.484, 35^s.211, 35^s.083, 34^s.720, 34^s.581.
14, 15, 47. Very faint.
26. Observed over wire O with the transit-micrometer set to readings 34^s.217, 34^s.705, 34^s.857, 35^s.000, 35^s.187, 35^s.425, 35^s.613, 35^s.794, 35^s.970, 36^s.250.
29, 30. Cloudy.
30. Observed over wires X, Y and Z.
31. Observed over wire T with the transit-micrometer set to readings 35^s.857, 35^s.930, 36^s.006, 36^s.088, 36^s.174, 36^s.271, 36^s.336, 36^s.414, 36^s.495, 36^s.548.

MONTH DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Un- corrected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at o' Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
1898				s	s	s	s	s	s	s	s	s	s	h	m	s		s	s	s	s	h	m	s	s
Jan. 17	1	Groombridge 820	RC	...	...	41'7	6'8	19'8	32'5	10'8	23'3	...	...	4. 21. 32'53	+ 0'74		31'30			5'35	4. 21. 36'65	- 5'17			
	2	Groomb. 2374 S.P.	RC	17'0	21'6	26'0	30'2	43'6	48'1	52'5	1'2	5'8	10'1	4. 40. 43'59	(- 1'83)		44'23			[- 0'02]	16. 40. 49'58	+ 1'17			
	3	Groomb. 2386 S.P.	RC	...	...	28'9	34'2	51'0	56'6	2'2	13'7	...	...	4. 45. 51'08	[+ 5'89]		51'88				16. 45. 57'23	+ 1'72			
	4	Lalande 9284	RC	...	...	...	...	31'8	34'2	42'0	44'4	47'1	49'8	4. 50. 34'25			34'63				4. 50. 39'98	- 1'63			
	5	Neptune	RC	56'5	59'2	1'7	6'9	9'7	12'2	20'2	22'9	25'6	28'2	4. 58. 12'32			12'46				4. 58. 17'81				
	6	δ Ursæ Min. S.P.	RC	58'0	29'1	38'0	15'9	38'8	2'1	...	...	...	...	6. 5. 14'63			19'78	25'62	5'84		.....				
Jan. 19	7	δ i L.	D	59'0	1'5	4'0	9'1	11'7	14'1	21'9	24'2	26'8	29'4	23. 25. 14'18			14'48			5'30	23. 26. 20'72				
	8	λ Piscium	D	23'8	26'2	28'8	33'9	36'2	38'8	46'1	48'5	51'0	53'5	23. 26. 38'69			38'96			[+ 0'02]	23. 36. 44'28	+ 0'08			
	9	α Andromedæ	D	...	...	...	49'0	52'0	54'9	3'4	6'1	8'9	11'8	0. 2. 54'86			54'96	0'31	5'35	5'32	.....				
	10	γ Pegasi	D	31'8	34'3	36'9	42'0	44'7	47'3	54'9	57'5	0'0	2'5	0. 7. 47'20			47'39	52'68	5'29		.....				
	11	ε Piscium	H	12'4	14'9	17'5	22'4	24'9	27'5	34'9	37'4	39'9	42'5	0. 57. 27'44			27'67	32'95	5'28	5'23†	.....				
	12	ζ ¹ Piscium	H	...	...	0'1	2'6	7'8	10'2	12'8	20'1	22'6	25'1	1. 8. 12'68			12'92	18'10	5'18		.....				
	13	ζ ¹ Piscium (E&E)	H	2'5	17'6	32'3	...	2'4	17'3	32'3	...	...	...	1. 8. 12'21			12'45	18'10	5'65		.....				
	14	Polaris	H	28'0	35'9	43'8	22'9	30'1	38'1	58'5	5'8	13'7	33'8	1. 20. 37'89			24'68	28'13	3'45		.....				
	15	Venus 2 L.	AC	...	...	...	...	26'3	29'2	37'0	39'8	42'2	45'1	17. 11. 29'08	[+ 6'34]		29'52			5'51	17. 11. 34'41				
	16	α Lyræ	AC	59'0	2'1	5'4	11'8	15'0	18'1	27'7	30'5	33'8	37'1	18. 33. 18'06			18'08	23'78	5'70	[0'00]	.....				
	17	α Aquilæ	AC	21'1	23'5	26'0	30'9	33'6	36'0	43'8	46'0	48'5	51'1	19. 45. 36'06	+ 1'00		36'38	41'74	5'36		.....				
														(- 0'89)											
Jan. 20	18	⊙ i L.	AC	12'1	14'9	17'5	22'8	25'6	28'0	36'0	38'5	41'2	44'0	20. 7. 28'07			38'09				20. 8. 43'60				
	19	⊙ i L.	AC	31'4	33'9	36'5	41'9	44'4	47'2	55'1	57'7	0'2	3'0	20. 9. 47'14			54'84	0'30	5'46		.....				
	20	α Andromedæ	AC	37'8	40'5	43'2	49'0	51'9	54'6	3'1	5'9	8'6	11'6	0. 2. 54'63			3'50				0. 9. 10'03				
	21	δ i L.	AC	48'0	50'3	53'0	58'1	0'7	3'2	10'9	13'3	15'8	18'2	0. 8. 3'16			49'08	54'44	5'36	5'34†	.....				
	22	β Andromedæ	B	30'8	33'7	36'8	42'8	...	...	...	...	...	...	1. 3. 48'92			21'91	27'10	5'19		.....				
	23	Polaris	B	48'8	24'5	30'1	20'5	26'8	32'0	22'7	27'9	51'0	59'1	1. 20. 32'85			50'07	55'38	5'31		.....				
	24	η Piscium	B	34'5	37'0	39'5	...	...	...	...	...	...	...	1. 25. 49'79							.....				
Jan. 21	25	ρ Boötis	B	...	...	4'2	10'0	12'9	15'9	24'6	27'3	...	...	14. 27. 15'83	(- 0'22)		16'06	21'50	5'44	5'36	14. 27. 21'43	- 0'65			
	26	γ Boötis	B	...	...	...	42'0	45'4	48'3	58'1	1'2	4'2	7'6	14. 27. 48'48			48'67			[+ 0'02]	14. 27. 54'04	- 0'67			
	27	σ Boötis	B	46'9	49'9	52'5	58'5	1'3	4'1	12'6	15'5	18'1	21'5	14. 30. 4'10			4'34				14. 30. 9'71	- 0'61			
	28	ζ Boötis	B	50'4	52'9	55'5	0'6	2'9	5'8	13'3	16'0	18'3	21'1	14. 36. 5'69			6'01				14. 36. 11'38	- 0'51			
	29	μ Virginis	B	14'2	16'9	19'4	24'2	26'8	29'4	36'8	39'2	41'6	44'1	14. 37. 29'27			29'68				14. 37. 35'05	- 0'44			
	30	ε ² Boötis	B	...	...	10'3	16'0	18'6	21'7	30'0	32'6	...	...	14. 40. 21'54			21'79	27'20	5'41		14. 40. 27'16	- 0'53			
	31	Groomb. 549 S.P.	B	...	...	...	42'0	50'9	0'2	18'2	27'4	36'8	14. 41. 41'81			42'85				2. 41. 48'22	- 0'82				
	32	Groombridge 2152	B	...	...	...	...	...	...	6'1	9'1	12'2	15'7	14. 44. 56'63			56'81				14. 45. 2'18	- 0'51			
	33	ξ ² Libræ	B	46'8	49'3	51'8	56'8	59'5	1'9	9'4	11'9	14'2	16'9	14. 51. 1'86			2'30	7'74	5'44		14. 51. 7'67	- 0'33			
	34	δ Libræ	B	...	...	9'2	14'2	16'8	19'4	26'8	29'3	...	...	14. 55. 19'29			19'72				14. 55. 25'09	- 0'33			
	35	20 Libræ	B	36'8	39'4	42'1	47'7	50'4	53'2	1'4	4'0	6'6	9'5	14. 57. 53'12			53'64				14. 57. 59'01	- 0'23			
	36	c Boötis	B	22'2	25'0	27'7	33'2	36'0	38'6	46'9	49'8	52'1	55'1	15. 2. 38'67			38'94				15. 2. 44'31	- 0'35			
	37	Saturn i L.	B	...	...	36'0	38'6	43'6	46'1	48'9	56'5	59'1	1'5	15. 4. 48'81			49'86				15. 4. 55'23				
	38	Saturn 2 L.	B	34'5	37'1	39'8	44'8	47'5	50'0	57'8	0'1	2'7	5'4	15. 4. 49'98			31'17				15. 10. 36'54	+ 5'69			
	39	Groombridge 2283	B	59'8	12'0	24'1	35'4	47'5	0'0	12'3	...	...	...	15. 10. 35'87			54'98				15. 14. 0'35	- 0'26			
	40	5 Serpentis	B	39'9	42'1	44'7	49'5	52'1	54'7	2'0	4'5	6'8	9'6	15. 13. 54'60			49'27				15. 18. 54'64	- 0'23			
	41	η Coronæ	B	31'9	34'6	37'5	43'3	46'2	49'1	57'6	0'5	3'3	6'3	15. 18. 49'04			47'49				15. 20. 52'86	+ 0'48			
	42	γ Ursæ Minoris	B	...	...	15'4	31'3	40'0	47'5	12'1	20'0	...	...	15. 20. 47'81			31'48				15. 22. 36'85	+ 0'06			
	43	ι Draconis	B	...	...	12'1	21'7	26'7	31'6	46'0	50'7	...	...	15. 22. 31'49			27'19				15. 23. 32'56	- 0'19			
	44	β Coronæ	B	...	...	...	...	...	38'2	41'1	44'0	1'0	18'0	15. 23. 26'95			38'82				15. 28. 44'19	- 0'14			
	45	θ Coronæ	B	...	...	26'9	32'7	35'7	38'6	47'4	50'2	...	...	15. 28. 38'59			11'77	17'18	5'41		15. 30. 17'14	- 0'15			
	46	α Coronæ	B	54'8	57'7	0'4	6'0	8'7	11'5	19'9	22'5	25'4	28'2	15. 30. 11'52			3'35	8'79	5'44		15. 39. 8'72	- 0'12			
	47	α Serpentis	B	48'0	50'4	53'0	58'0	0'6	2'9	10'5	13'0	15'4	18'0	15. 39. 2'99			3'27	8'79	5'52		.....				
	48	α Serpentis (E&E)	B	54'5	9'3	24'1	39'0	54'1	8'9	23'9	...	...	...	15. 39. 2'91			39'06	44'40	5'34		16. 52. 44'43	+ 0'27			
	49	κ Ophiuchi	B	23'7	26'2	28'7	33'8	36'1	38'7	46'2	48'6	51'2	53'8	16. 52. 38'71			12'70	18'08	5'38		16. 56. 18'07	+ 0'49			
	50	ε Herculis	B	...	...	...	...	...	...	21'1	24'0	26'8	29'9	16. 56. 12'47			19'08	24'44	5'36		17. 4. 24'45	+ 0'27			
	51	η Ophiuchi	B	3'3	5'9	8'2	13'4	16'0	18'7	26'2	28'9	31'4	34'1	17. 4. 18'62											

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 13 and 48, + 24'81 and + 23'80.
 Corrections for passage of Semidiameter, Nos. 7, 15, and 21, + 60'91; - 0'62; and + 61'01.

6. Observed over wire T with the transit-micrometer set to readings 35'998, 35'245, 35'046, 34'142, 33'586, 33'023.
 6, 22, 23, 24. Cloudy.
 14. Observed over wire T with the transit-micrometer set to readings 35'499, 35'589, 35'669, 35'992, 36'058, 36'127, 36'312, 36'363, 36'440, 36'600.
 15. Very faint.
 23. Observed over wire T with the transit-micrometer set to readings 33'637, 34'477, 34'531, 35'491, 35'545, 35'592, 36'560, 36'605, 36'810, 36'880.
 39. Observed over wire T with the transit-micrometer set to readings 35'000, 35'200, 35'400, 35'600, 35'800, 36'000, 36'200.
 40. Faint; cloudy.
 7. 21. Correction to R.A. on true meridian, + 0'01.
 44. Observed over wires V, W, X, Y and Z.

1988GGCANN 583.1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GCA

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit [Cor- rected].	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o° Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Jan. 21	1	ζ Draconis	B	...	...	57.5	9.4	15.6	21.9	39.8	45.8	...	...	17. 8. 21.69	+ 1.00	21.55			5.36	17. 8. 26.92 + 2.09		
	2	δ Herculis	B	...	...	28.4	34.0	36.6	39.5	47.7	50.2	...	...	17. 10. 39.41	(- 0.22)	39.68			[+ 0.02]	17. 10. 45.05 + 0.49		
	3	π Herculis	B	...	...	6.8	12.9	16.0	19.1	28.4	31.6	...	...	17. 11. 19.14	[+ 6.34]	19.33				17. 11. 24.70 + 0.68		
	4	Venus 2 L.	B	22.7	25.4	28.0	33.2	36.0	38.8	46.6	49.4	52.0	54.6	17. 21. 38.68		39.18				17. 21. 43.94		
	5	β Draconis	B	...	...	...	...	50.0	54.0	58.0	10.2	...	...	17. 27. 58.06		58.14				17. 28. 3.51 + 1.33		
	6	α Ophiuchi	B	44.9	47.5	50.1	55.0	57.5	0.1	7.9	10.2	12.7	15.5	17. 30. 0.15		0.48	5.90	5.42		17. 30. 5.85 + 0.45		
	7	ι Herculis	B	3.6	7.1	10.7	17.8	21.5	25.1	35.8	39.4	42.7	46.4	17. 36. 25.02		25.16				17. 36. 30.53 + 1.12		
	8	μ Herculis	B	0.1	2.9	5.7	11.2	14.1	16.9	25.3	28.0	30.6	33.8	17. 42. 16.87		17.12	22.55	5.43		17. 42. 22.49 + 0.69		
	9	ξ Draconis	B	...	...	...	27.3	32.0	36.5	50.1	...	...	...	17. 51. 36.49		36.51				17. 51. 41.88 + 1.81		
	10	γ Draconis	B	...	...	...	...	...	...	16.4	20.2	24.2	28.2	17. 54. 4.40		4.49				17. 54. 9.86 + 1.50		
	11	χ Draconis	B	56.2	4.5	12.9	29.5	38.0	46.3	11.3	19.3	27.5	36.1	18. 22. 46.20		45.86				18. 22. 51.24 + 4.52		
	12	α Lyræ	B	59.2	2.2	5.6	11.9	15.0	18.2	...	...	...	...	18. 33. 18.19		18.38	23.82	5.44		18. 33. 23.76 + 1.19		
	13	α Aquilæ	B	...	...	...	...	...	...	43.6	46.0	48.6	51.1	19. 45. 36.09		36.44	41.77	5.33		19. 45. 41.82 + 0.73		
Jan. 22	14	⊙ 1 L.	B	39.4	42.1	44.7	50.0	52.7	55.3	3.1	5.8	8.4	11.2	20. 15. 55.28						20. 17. 10.47		
	15	⊙ 2 L.	B	58.2	0.9	3.3	8.5	11.2	14.0	21.9	24.3	27.1	29.9	20. 18. 13.94								
	16	Polaris	B	10.7	15.0	19.1	23.4	28.6	44.7	49.7	55.0	59.6	14.0	1. 20. 29.51		20.21	25.21	5.00	5.38			
	17	λ Ursæ Min. S.P.	B	55.2	0.5	22.8	29.5	47.6	6.0	14.9	22.4	35.1	42.1	7. 25. 1.45		13.42	20.18	6.76				
	18	Castor	B	37.3	40.2	43.2	...	...	...	3.8	6.4	...	...	7. 27. 54.86		55.08	0.41	5.33		7. 28. 0.47 - 2.54		
	19	Procyon	B	33.0	35.5	38.0	42.9	45.5	48.0	55.5	58.0	0.2	2.8	7. 33. 47.95		48.31	53.61	5.30		7. 33. 53.70 - 2.06		
	20	κ Geminorum	B	...	...	56.1	1.5	4.1	6.9	15.1	17.8	...	...	7. 38. 6.93		7.20				7. 38. 12.59 - 2.38		
	21	Pollux	B	37.1	40.0	42.6	48.2	51.3	54.1	2.3	5.3	8.0	10.9	7. 38. 53.99		54.24	59.59	5.35		7. 38. 59.63 - 2.45		
	22	φ Geminorum	B	48.1	50.9	53.8	59.3	2.0	4.8	13.1	15.9	18.5	21.6	7. 47. 4.81		5.06				7. 47. 10.45 - 2.45		
	23	ι Cancri	B	...	...	...	...	...	1.9	9.6	12.0	14.5	17.4	7. 51. 1.83		2.14				7. 51. 7.53 - 2.22		
	24	ω ² Cancri	B	...	...	...	18.7	21.6	24.2	32.5	35.1	37.8	40.6	7. 55. 24.22		24.49				7. 55. 29.88 - 2.41		
	25	15 Cancri	B	22.0	24.9	27.7	33.3	36.1	39.1	47.8	50.4	53.3	56.2	8. 6. 39.08		39.32				8. 6. 44.71 - 2.54		
	26	β Cancri	D	34.0	36.3	39.0	44.0	46.5	49.3	56.5	59.1	1.5	4.1	8. 10. 49.04		49.39	54.60	5.21	5.23			
	27	δ ¹ Cancri	D	5.6	8.1	10.8	16.0	18.6	21.2	29.1	31.7	34.2	37.0	8. 17. 21.24		21.54	26.80	5.26				
	28	α Ursæ Majoris...	B	6.0	10.9	16.1	26.1	31.6	36.6	...	...	...	...	8. 21. 36.58		36.54			5.38	8. 21. 41.93 - 4.44		
	29	δ Hydæ	B	50.4	52.9	55.5	0.5	2.9	5.6	12.9	15.4	17.9	20.3	8. 32. 5.44		5.80				8. 32. 11.19 - 2.07		
	30	Groomb. 3250 S.P.	B	...	...	10.2	15.1	30.3	35.2	40.4	50.3	...	...	8. 35. 30.23		30.90				20. 35. 36.29 + 2.98		
	31	ε Hydæ	B	57.5	59.9	2.4	7.5	10.0	12.5	20.0	22.5	24.9	27.5	8. 41. 12.48		12.84	18.13	5.29		8. 41. 18.23 - 2.07		
	32	ε Hydæ ... (E&E)	B	4.4	19.3	34.1	49.0	4.0	18.9	33.8	...	...	...	8. 41. 12.47		12.83	18.13	5.30				
	33	Groomb. 3307 S.P.	B	57.1	2.0	6.6	...	...	...	...	44.3	49.2	54.0	8. 46. 25.51		26.14				20. 46. 31.53 + 2.74		
	34	Groomb. 3309 S.P.	B	11.4	16.1	21.0	...	...	...	...	58.5	3.1	8.0	8. 46. 39.71		40.34				20. 46. 45.73 + 2.74		
	35	ι Ursæ Majoris ...	B	40.9	44.5	48.2	55.6	59.5	3.1	14.1	18.0	21.6	25.6	8. 52. 3.12		3.23				8. 52. 8.62 - 3.31		
	36	Groomb. 3354 S.P.	B	...	...	...	...	40.4	46.1	52.1	4.1	10.0	16.0	8. 53. 40.36		41.12				20. 53. 46.51 + 3.69		
	37	κ Ursæ Majoris...	B	7.5	10.9	14.6	21.9	25.7	29.2	40.3	44.0	47.5	51.4	8. 56. 29.31		29.43				8. 56. 34.82 - 3.26		
	38	Groomb. 3389 S.P.	B	...	...	23.5	29.4	47.9	54.0	0.2	12.4	...	...	8. 59. 47.88		48.66				20. 59. 54.05 + 3.86		
	39	Groomb. 3414 S.P.	B	29.1	35.1	41.1	47.1	4.6	10.3	16.3	28.1	34.0	40.1	9. 8. 4.56		5.32				21. 8. 10.71 + 3.65		
	40	Piazzixxi. 170 S.P.	B	...	...	...	...	59.8	4.2	9.4	19.1	24.1	29.0	9. 9. 59.57		0.23				21. 10. 5.62 + 2.85		
	41	Piazzixxi. 186 S.P.	B	33.5	37.8	42.0	46.2	59.5	4.0	8.2	16.8	21.0	25.5	9. 13. 59.43		0.03				21. 14. 5.42 + 2.41		
	42	Groomb. 3453 S.P.	B	57.5	1.4	5.4	9.4	21.1	24.9	29.2	37.2	40.8	44.9	9. 20. 21.16		21.72				21. 20. 27.11 + 2.06		
	43	Groomb. 3466 S.P.	B	30.6	34.8	39.1	42.8	55.1	59.2	3.1	11.1	15.2	19.0	9. 22. 54.98		55.55				21. 23. 0.94 + 2.13		
	44	Piazzixxi. 170 S.P.	B	...	...	...	...	28.2	32.7	37.0	45.5	50.0	54.1	9. 25. 28.31		28.90				21. 25. 34.29 + 2.34		
	45	Groomb. 3527 S.P.	B	40.2	46.9	53.6	0.3	19.9	26.1	33.0	46.0	52.4	59.1	9. 33. 19.72		20.53				21. 33. 25.92 + 4.04		
	46	Groomb. 3538 S.P.	B	10.0	16.7	23.0	29.3	48.7	55.5	2.1	14.9	21.5	28.2	9. 34. 48.96		49.77				21. 34. 55.16 + 4.03		
	47	ε Leonis	B	37.3	40.0	42.7	48.1	50.9	53.6	1.9	4.4	7.1	9.9	9. 39. 53.60		53.87	59.19	5.32		9. 39. 59.26 - 2.30		
	48	μ Leonis	B	31.0	33.9	36.6	42.1	44.9	47.6	56.0	58.8	1.3	4.2	9. 46. 47.65		47.90	53.27	5.37		9. 46. 53.29 - 2.33		
Jan. 23	49	ω ¹ Tauri	R	...	...	...	57.0	59.7	2.2	10.1	12.7	15.1	18.0	4. 3. 2.23		2.53	7.72	5.19	5.27			
	50	γ Tauri	L	32.7	35.4	37.9	42.9	...	...	...	...	...	...	4. 13. 48.14		48.46	53.82	5.36	5.36			
	51	ι Aurigæ	H	51.9	54.8	57.8	3.6	6.5	9.5	18.4	21.3	24.1	27.3	4. 50. 9.53		9.75	14.99	5.24	5.22			
	52	Neptune	R	28.4	31.0	33.6	39.0	41.8	44.2	52.0	54.8	57.5	0.1	4. 57. 44.25		44.54			5.27	4. 57. 49.81		

Corrections for passage of Semidiameter, Nos. 4 and 33, — 0.61 and + 23.40.

12, 49, 50. Cloudy.

16. Observed over wire X with the transit-micrometer set to readings 35° 7'30, 35° 7'72, 35° 8'00, 35° 8'20, 35° 8'78, 36° 0'26, 36° 0'60, 36° 1'01, 36° 1'30, 36° 2'64.

16, 17, 18, 21, 23, 28. Very faint; cloudy.

17. Observed over wire T with the transit-micrometer set to readings 36° 0'09, 36° 0'40, 35° 8'69, 35° 8'44, 35° 7'13, 35° 5'67, 35° 4'92, 35° 4'43, 35° 3'70, 35° 3'03.

MON. AND DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h	m	s	''	s	s	s	s	h	m	s	s	
Jan. 23	1	Rigel	R	13'1	15'8	18'1	23'2	25'7	...	35'8	38'3	40'7	43'3	5. 9. 28'23	+ 1'00	28'66	33'98	5'32	5'27	.....		
	2	υ Orionis	R	35'0	37'6	40'0	44'9	47'5	50'0	57'4	59'9	2'4	5'0	5. 26. 49'98	(- 0'22)	50'40			[+ 0'02]	5. 26. 55'67	- 1'70	
	3	ε Orionis	H	37'4	39'9	42'4	47'3	49'8	52'2	59'8	2'1	4'5	7'2	5. 30. 52'27	[+ 6'34]	52'67	57'86	5'19	5'22	.....		
	4	κ Orionis	R	30'4	33'1	35'5	40'4	43'0	45'4	53'1	55'5	58'0	0'6	5. 42. 45'51		45'94	51'15	5'21	5'27	.....		
	5	α Orionis	R	13'6	16'1	18'6	...	...	28'6	...	38'6	41'1	43'6	5. 49. 28'61		28'96	34'30	5'34		.....		
	6	Sirius	R	...	17'4	20'0	24'9	27'7	30'2	38'0	40'6	43'1	...	6. 40. 30'26		30'73				6. 40. 36'01	- 1'86	
	7	Venus 2 L.	AC	36'0	38'9	41'5	46'7	49'6	52'2	0'1	2'8	5'5	8'1	17. 31. 52'15	(- 0'93)	52'63			5'51	17. 31. 57'49		
	8	β Ophiuchi	AC	59'0	1'4	4'0	8'9	11'5	13'9	21'4	23'9	26'2	28'9	17. 38. 13'92		14'26	19'67	5'41	[- 0'06]	.....		
	9	δ Ursæ Minoris...	B	51'4	0'6	11'4	22'0	37'1	42'2	48'1	0'1	6'1	12'3	18. 5. 25'20		21'36	26'66	5'30	5'46	.....		
	10	α Lyræ	AC	59'2	2'3	5'6	11'8	15'1	18'1	27'8	30'9	34'0	37'2	18. 33. 18'21		18'34	23'86	5'52	5'51	.....		
	11	γ Aquilæ	AC	...	...	...	...	...	...	27'6	42'5	57'5	19. 41. 12'42		12'72	18'15	5'43		.....			
Jan. 24	12	⊙ 2 L.	AC	22'0	24'6	27'2	32'3	35'2	38'0	45'7	48'2	50'9	53'4	20. 26. 37'76		38'23				20. 25. 34'56		
	13	Mercury 1 L.	AC	33'2	35'9	38'3	43'5	46'0	48'6	56'1	59'0	1'2	4'0	21. 39. 48'59		49'02				21. 39. 54'72		
	14	ε Piscium	B	12'1	14'7	17'1	22'1	24'8	27'2	34'7	37'2	39'6	42'2	0. 57. 27'18		27'50	32'90	5'40	5'40	.....		
	15	ε Piscium... (E&E)	B	19'9	34'8	49'7	4'6	19'6	34'5	49'5	...	...	...	0. 57. 27'14		27'46	32'90	5'44		.....		
	16	β Andromedæ	B	30'7	33'7	36'7	42'8	45'9	48'9	57'8	0'9	3'8	7'0	1. 3. 48'83		48'99	54'38	5'39		.....		
	17	β Andromedæ. (E&E)	B	31'9	50'1	...	26'4	...	2'3	20'2	...	...	...	1. 3. 48'66		48'82	54'38	5'56		.....		
	18	Polaris	AC	41'5	53'1	4'4	48'3	56'0	...	...	...	...	...	1. 20. 27'85		16'81	23'48	6'67	5'45	.....		
	19	⊙ 1 L.	AC	56'0	58'8	1'5	7'0	9'9	12'7	20'9	23'6	26'2	29'1	3. 17. 12'58		12'81				3. 18. 27'36		
Jan. 26	20	ζ Aurigæ	B	49'4	52'5	55'9	2'2	5'6	9'0	18'8	22'0	25'3	28'6	4. 55. 8'94	(- 1'22)	9'02			5'27	4. 55. 14'28	- 1'98	
	21	Capella	B	35'9	39'4	42'9	50'0	53'5	57'1	8'0	11'3	14'6	18'5	5. 8. 57'13		57'17			[- 0'06]	5. 9. 2'43	- 2'21	
	22	λ Aurigæ	B	26'7	30'0	33'1	39'6	42'9	46'1	56'0	59'1	2'1	5'5	5. 11. 46'12		46'21				5. 11. 51'47	- 2'08	
	23	⊙ 1 L.	B	12'8	15'7	18'2	24'2	27'3	30'1	38'7	41'6	44'3	47'5	5. 15. 30'05		30'23				5. 16. 49'97		
	24	β Tauri	B	22'5	25'4	28'1	33'9	36'5	39'5	48'0	50'6	53'4	56'3	5. 19. 39'43		39'61	44'93	5'32		.....		
	25	δ Orionis	B	8'0	22'8	25'3	32'6	...	...	52'5	7'3	22'1	...	5. 26. 37'65		38'00	43'20	5'20		.....		
Jan. 27	26	β Andromedæ ...	HA	30'8	33'9	36'8	42'9	46'0	48'9	58'1	0'9	4'0	7'1	1. 3. 48'95	(- 1'44)	49'07	54'34	5'27	5'21	.....		
	27	Polaris	HA	54'8	3'5	10'8	16'4	22'9	30'3	38'1	9'3	17'4	30'0	1. 20. 29'78		17'49	20'83	3'34	[+ 0'02]	.....		
	28	ο Piscium	HA	...	36'5	39'0	44'0	46'5	49'0	56'5	59'0	1'5	...	1. 39. 49'02		49'31	54'45	5'14		.....		
	29	ο Piscium... (E&E)	HA	42'9	57'9	12'8	...	43'0	58'0	13'0	...	...	...	1. 39. 48'86		49'15	54'45	5'30		.....		
	30	α Trianguli	HA	46'9	49'9	52'6	58'3	1'2	4'0	12'4	15'1	18'1	21'1	1. 47. 3'97		4'13				1. 47. 9'34	- 0'33	
Jan. 28	31	⊙ 1 L.	AC	42'6	45'2	47'8	53'1	55'8	58'1	6'1	8'7	11'2	13'9	20. 40. 58'26					5'35	20. 42. 12'78		
	32	⊙ 2 L.	AC	0'0	2'4	5'2	10'4	12'9	15'7	23'5	26'1	28'6	31'4	20. 43. 15'63					[+ 0'04]	.....		
	33	ζ Andromedæ ...	AC	27'6	30'1	33'1	38'4	41'2	43'9	51'9	54'5	57'3	0'1	0. 41. 43'82		44'01			5'39	0. 41. 49'40	+ 0'08	
	34	γ Cassiopeiæ	AC	...	...	...	...	...	19'6	34'5	39'5	44'1	49'5	0. 50. 19'58		19'39				0. 50. 24'78	+ 1'11	
	35	ε Piscium	AC	...	...	17'3	22'2	24'7	27'1	34'8	37'1	...	...	0. 57. 27'21		27'51	32'85	5'34		.....		
	36	β Andromedæ ...	AC	30'6	33'5	36'8	42'8	46'0	48'8	58'0	0'9	4'0	7'0	1. 3. 48'85		48'97	54'32	5'35		.....		
	37	ζ 1 Piscium	AC	...	...	...	...	10'0	12'3	20'0	22'4	24'9	27'5	1. 8. 12'47		12'77	18'10	5'33		.....		
	38	Polaris	AC	16'1	21'1	28'5	35'3	55'9	2'1	9'1	17'6	...	...	1. 20. 28'64		16'35	19'86	3'51		.....		
	39	γ Tauri	AC	48'0	50'5	53'1	58'1	0'7	3'2	10'9	13'4	15'9	18'4	3. 25. 3'23		3'49	8'86	5'37		.....		
	40	Piazzi III. 97	AC	35'5	40'2	45'0	55'1	0'0	4'7	19'5	24'2	29'0	34'1	3. 34. 4'74		4'56				3. 34. 9'96	- 1'42	
	41	Lalande 6853 ...	AC	28'0	30'9	33'5	39'0	41'5	44'2	52'5	55'3	57'9	0'4	3. 37. 44'33		44'52				3. 37. 49'92	- 1'18	
	42	γ Tauri	B	32'9	35'5	38'0	43'0	45'7	48'2	56'0	58'5	1'1	3'8	4. 13. 48'28		48'53	53'77	5'24	5'24	.....		
	43	γ Tauri ... (E&E)	B	41'6	57'1	...	27'8	...	58'6	14'0	...	...	...	4. 13. 48'23		48'48	53'77	5'29		.....		
	44	ε Tauri	B	12'9	15'5	18'1	23'3	26'0	28'5	36'3	38'9	41'5	44'2	4. 22. 28'53		28'75	34'01	5'26		.....		
	45	ε Tauri ... (E&E)	B	21'0	36'7	52'2	8'1	23'7	39'4	55'0	...	...	...	4. 22. 28'41		28'63	34'01	5'38		.....		
	46	ε Orionis	AC	37'4	39'7	42'1	47'1	49'6	52'0	59'7	2'0	4'3	6'9	5. 30. 52'09		52'44	57'83	5'39	5'39	.....		
	47	κ Orionis	AC	...	...	...	...	...	55'5	57'9	0'2	15'4	30'2	5. 42. 45'32		45'71	51'12	5'41		.....		
	48	θ Aurigæ	AC	16'0	18'9	22'0	28'2	31'5	34'6	44'0	46'9	50'0	53'3	5. 52. 34'55		34'64				5. 52. 40'04	- 2'28	
	49	ι Geminorum...R.	AC	28'0	30'6	33'1	38'5	41'4	44'0	...	...	...	...	5. 57. 44'01		44'39	49'89	5'50		.....		
	50	δ Ursæ Min. S.P..	AC	51'8	58'5	7'8	14'6	38'6	43'7	49'1	55'3	...	...	6. 5. 17'35		22'20	27'28	5'08		.....		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 15, 17, 29, 43, and 45, + 22''48 : + 22''48 : + 20''93 : + 20''40 : and + 20''40.

Corrections for passage of Semidiameter, Nos. 7, 12, 13, 19, and 23, — 0''61 : — 69''13 : + 0''24 : + 69''10 : and + 74''47.

2, 4. Faint; cloudy.

6, 23, 24, 25. Very faint; cloudy.

9. Observed over wire X with the transit-micrometer set to readings 37''381, 37''630, 37''886, 38''120, 38''486, 38''610, 38''737, 39''034, 39''178, 39''333.

11. Observed over wires X, Y and Z.

18. Observed over wire Q with the transit-micrometer set to readings 36''041, 36''170, 36''246, 36''625, 36''697.

19, 23. Correction to R.A. on true meridian, + 0''01.

25. Observed over wires N, O, P, R, X, Y and Z.

27. Observed over wire T with the transit-micrometer set to readings 34''760, 34''857, 34''907, 34''952, 35''025, 35''083, 35''148, 35''414, 35''490, 35''603.

28, 29. Cloudy.

31, 32. Limb boiling.

38. Observed over wire P with the transit-micrometer set to readings 35''256, 35''294, 35''365, 35''414, 35''583, 35''626, 35''701, 35''774.

47. Observed over wires V, W, X, Y and Z.

50. Observed over wire T with the transit-micrometer set to readings 34''799, 34''647, 34''405, 34''233, 33''646, 33''526, 33''377, 33''230.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at or Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Jan. 28	1	γ Geminorum ...	AC	23'2	25'9	28'3	33'4	36'0	38'7	46'4	48'9	51'3	54'0	6. 31. 38'62	+ 1'00	38'86	44'27	5'41	5'39	.....		
	2	ε Geminorum ...	AC	12'1	14'9	17'6	23'1	26'0	28'7	36'9	39'5	42'2	45'0	6. 37. 28'61	(- 1'44)	28'79			[+ 0'04]	6. 37. 34'19	- 2'25	
	3	Sirius.....	AC	14'6	17'1	19'9	24'9	27'6	30'1	37'9	40'2	42'9	45'6	6. 40. 30'09	[+ 6'34]	30'53				6. 40. 35'93	- 1'85	
	4	Cephei 51 .....R.	AC	9'0	21'4	31'0	41'2	16'5	30'0	...	...	...	...	6. 52. 18'24		16'13	20'13	4'00	.....			
	5	Cephei 51 .....AC	AC	5'0	10'3	15'3	21'3	40'6	46'3	...	...	...	...	6. 52. 19'92		14'61	20'13	5'52	.....			
	6	52 Geminorum...	AC	0'6	3'4	6'1	11'5	14'3	17'1	25'3	28'0	30'7	33'6	7. 8. 17'07		17'25				7. 8. 22'65	- 2'35	
	7	β 1 L.	AC	52'0	54'8	57'8	3'2	6'0	9'1	17'6	20'2	22'9	26'0	7. 25. 8'97		9'15				7. 26. 29'78		
	8	λ Ursæ Min. S.P..	AC	51'0	57'4	5'5	16'1	40'0	47'3	56'0	8'8	...	...	7. 25. 2'02		17'50	20'58	3'08	.....			
	9	α Lyrae	W	59'8	2'7	5'9	12'0	15'4	18'6	28'0	31'1	34'2	37'6	18. 33. 18'54	(- 0'71)	18'69	23'97	5'28	5'34 [- 0'03]	18. 33. 24'01	+ 1'04	
Jan. 29	10	⊙ 1 L.....	H	5'0'2	5'2'8	5'5'4	0'5	3'3	6'0	13'8	16'3	19'0	21'7	20. 45. 5'91		} 15'02			5'12	20. 46. 20'11		
	11	⊙ 2 L.....	H	7'5	10'1	12'7	18'0	20'5	23'1	31'1	33'8	36'1	39'0	20. 47. 23'20								
	12	α Andromedæ ...	H	38'0	40'8	43'6	49'2	52'1	55'0	3'4	6'1	8'9	11'9	0. 2. 54'91			55'13	0'20	5'07	5'09	0. 3. 0'22	+ 0'42
	13	Polaris	H	56'1	3'5	9'1	29'1	36'2	26'0	38'8	54'9	3'3	8'6	1. 20. 24'29			13'79	18'84	5'05	.....		
	14	η Piscium	H	34'5	37'1	39'8	44'9	47'4	50'0	57'6	0'0	2'6	5'3	1. 25. 49'93			50'22	55'27	5'05	1. 25. 55'31	- 0'29	
	15	54 Andromedæ...H	H	40'0	43'8	47'8	55'5	59'5	3'2	14'8	18'5	22'4	26'2	1. 37. 3'18			3'22			1. 37. 8'31	+ 0'13	
	16	γ Ursæ Maj. S.P..	H	...	3'5	7'1	11'0	22'3	26'4	30'1	37'9	41'8	...	1. 43. 22'48			23'03			13. 43. 28'12	- 1'57	
	17	β Arietis .....R.	H	32'9	35'5	38'1	43'3	46'0	...	...	...	...	...	1. 48. 48'66			49'00	53'95	4'95	1. 48. 54'09	- 0'39	
	18	Piazzi I. 243.....	H	...	...	...	52'9	55'5	3'2	5'9	8'2	11'0	...	1. 57. 55'43			55'71			1. 58. 0'80	- 0'48	
	19	α Arietis.....	H	...	0'2	2'9	8'2	11'0	13'7	21'8	24'4	27'0	...	2. 1. 13'67			13'91	19'00	5'09	2. 1. 19'00	- 0'46	
	20	α Arietis....(E&E)	H	5'0	21'2	37'3	...	9'5	25'5	41'4	...	...	...	2. 1. 13'30			13'54	19'00	5'46	.....		
	21	ξ 1 Ceti	H	9'3	11'9	14'2	19'4	21'9	24'2	31'9	34'2	36'7	39'4	2. 7. 24'32			24'64	29'74	5'10	2. 7. 29'73	- 0'60	
	22	ε Eridani	W	42'0	44'6	47'1	52'1	54'7	57'4	4'8	7'3	9'6	12'3	3. 27. 57'20			57'62	2'87	5'25	3. 28. 2'93	- 1'11	
	23	Aldebaran	H	37'8	40'3	42'9	48'0	50'6	53'1	1'0	3'5	6'0	8'6	4. 29. 53'19			53'47	58'57	5'10	4. 29. 58'55	- 1'48	
	24	Groombridge 864	H	5'1'1	54'3	57'8	4'1	7'8	11'0	21'1	24'3	27'6	31'3	4. 34. 11'05			11'17			4. 34. 16'25	- 1'79	
	25	B.D.+ 46° No. 910	H	34'9	38'2	42'1	...	52'9	56'8	...	...	...	...	4. 38. 56'56			56'64			4. 39. 1'72	- 1'93	
	26	96 Tauri	H	28'0	30'5	33'0	38'1	40'9	43'3	51'1	53'6	56'0	58'7	4. 43. 43'33			43'62			4. 43. 48'70	- 1'56	
	27	Groombridge 885	H	...	...	...	...	...	5'4	9'4	13'5	18'0	...	4. 44. 53'26			53'28			4. 44. 58'36	- 2'16	
	28	5 Orionis	H	38'4	40'9	43'5	48'3	50'9	53'5	0'9	3'3	5'8	8'2	4. 47. 53'38			53'74			4. 47. 58'82	- 1'52	
	29	ε Orionis	H	37'5	40'0	42'3	47'3	49'9	52'2	59'8	2'1	4'7	7'4	5. 30. 52'33			52'70	57'83	5'13	5. 30. 57'78	- 1'70	
	30	κ Orionis .....R.	H	31'1	33'5	35'9	40'8	43'3	45'7	53'5	55'9	58'2	1'1	5. 42. 45'91			(46'37)			.....		
	31	α Orionis	H	...	16'2	18'9	23'8	26'3	28'8	36'2	38'8	41'2	...	5. 49. 28'80			29'13	34'27	5'14	5. 49. 34'21	- 1'82	
	32	α Orionis ..(E&E)	H	23'7	38'6	53'5	...	23'7	38'4	53'3	...	...	...	5. 49. 28'42			28'75	34'27	5'52	.....		
	33	δ Ursæ Min. S.P..	H	5'7	14'6	21'7	40'1	54'1	46'4	54'5	4'2	12'2	19'5	6. 5. 19'90			24'14	27'45	3'31	.....		
	34	Sirius.....	H	14'9	17'5	20'0	25'1	27'8	30'2	38'0	40'6	43'2	45'9	6. 40. 30'33			30'79			6. 40. 35'87	- 1'85	
	35	ε Geminorum ...	H	28'0	30'5	33'1	38'1	40'8	43'2	50'9	53'5	56'0	58'8	6. 48. 43'30			43'60			6. 48. 48'68	- 2'09	
	36	Cephei 51	H	30'2	40'2	50'0	57'5	6'3	17'1	41'6	47'9	56'8	...	6. 52. 18'88			14'38	20'05	5'67	.....		
	37	ζ Geminorum ...	H	...	39'9	42'3	47'7	50'2	53'1	0'9	3'6	6'2	...	6. 57. 53'01			53'27	58'64	5'37	6. 57. 58'57	- 2'23	
	38	51 Geminorum...H	H	5'1	7'6	10'1	15'4	18'0	20'5	...	...	...	...	7. 7. 20'52			20'80	26'13	5'33	7. 7. 26'10	- 2'19	
	39	λ Ursæ Min. S.P..	H	32'1	41'5	54'7	19'1	28'0	43'8	11'5	18'0	39'3	44'7	7. 25. 1'83			15'21	20'67	5'46	.....		
	40	Pollux	H	37'4	40'1	43'0	48'7	51'6	54'3	2'7	5'6	8'2	11'1	7. 38. 54'28			54'50	59'64	5'14	7. 38. 59'58	- 2'50	
	41	μ 2 Cancri	H	19'9	22'5	25'0	30'4	33'0	35'6	43'8	46'4	49'0	51'9	8. 1. 35'76			36'01			8. 1. 41'09	- 2'40	
	42	Piazzi VIII. 42...H	H	...	...	3'5	8'9	11'6	14'1	22'1	24'9	...	...	8. 14. 14'19			14'45			8. 14. 19'53	- 2'40	
	43	Jupiter 1 L.	H	9'6	...	14'8	...	...	25'4	...	35'8	...	41'1	8. 23. 25'34			} 27'13			8. 23. 32'21		
	44	Jupiter 2 L.	H	12'6	...	17'8	...	...	28'4	...	38'9	...	44'3	8. 23. 28'40								
	45	β 1 L.	H	28'8	31'5	34'2	39'8	42'5	45'3	53'5	56'2	59'3	1'9	8. 28. 45'31			45'57			8. 30. 4'32		
	46	γ Cancri.....	H	57'0	59'8	2'5	7'8	10'5	13'1	21'0	23'9	26'5	29'1	8. 37. 13'13			13'38	18'49	5'11	8. 37. 18'46	- 2'43	
	47	Piazzi VIII. 206..H	H	...	...	18'1	...	...	28'5	36'6	39'0	41'3	44'1	8. 49. 28'56			28'84			8. 49. 33'92	- 2'34	
Jan. 30	48	⊙ 1 L.....	B	56'9	59'4	2'0	7'2	9'9	12'5	20'3	22'9	25'4	28'1	20. 49. 12'47	(- 0'30)	} 21'38			5'30 [- 0'02]	20. 50. 26'66		
	49	⊙ 2 L.....	B	13'7	16'2	19'0	24'1	26'7	29'3	37'3	39'8	42'2	45'1	20. 51. 29'35								
	50	α Cephei	B	25'6	30'7	36'1	46'7	52'1	57'3	13'3	18'4	23'5	29'2	21. 15. 57'31			57'24			21. 16. 2'52	+ 3'19	
	51	β 2 Cephei	B	25'7	33'0	40'1	54'4	2'0	9'4	31'1	38'2	45'2	52'8	21. 27. 9'20			8'95			21. 27. 14'23	+ 4'75	

Corrections to the times by Hardy for reduction to Sideral Standard, applied to form Concluded Transit, Nos. 20 and 32, + 19'·98 and + 19'·89.
Corrections for passage of Semidiameter, Nos. 7 and 45, + 75'·22 and + 73'·66.

4. Observed over wire R with the transit-micrometer set to readings 33'·869, 34'·120, 34'·380, 34'·516, 35'·214, 35'·520.
5. Observed over wire T with the transit-micrometer set to readings 35'·296, 35'·410, 35'·515, 35'·637, 36'·010, 36'·110.
7, 45. Correction to R.A. on true meridian, + 0'·01.
8. Observed over wire Q with the transit-micrometer set to readings 36'·203, 36'·165, 36'·115, 36'·050, 35'·849, 35'·800, 35'·760, 35'·670.
13. Observed over wire T with the transit-micrometer set to readings 34'·820, 34'·891, 34'·949, 35'·114, 35'·180, 35'·605, 35'·740, 35'·861, 35'·949, 35'·995.
25, 38. Very faint.
33. Observed over wire T with the transit-micrometer set to readings 37'·411, 37'·152, 36'·990, 36'·533, 36'·250, 34'·972, 34'·760, 34'·500, 34'·353, 34'·180.
36. Observed over wire T with the transit-micrometer set to readings 34'·648, 34'·813, 35'·060, 35'·198, 35'·339, 35'·577, 36'·050, 36'·167, 36'·325.
39. Observed over wire R with the transit-micrometer set to readings 35'·665, 35'·563, 35'·470, 35'·310, 35'·256, 35'·178, 34'·985, 34'·917, 34'·750, 34'·719.
47. Very faint; cloudy.
9. Unsteady.

MON. AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate]	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Level].						[Azimuth].			
				s	s	s	s	s	s	s	s	s	s		h	m						s		
Jan. 30	1	β Pegasi.....	B	...	...	26.4	32.0	34.8	37.7	46.0	48.8	...	...	22. 58. 37.63	+ 1.00	37.88			5.30	22. 58. 43.16			+ 0.75	
	2	α Andromedæ ...	B	37.8	40.5	43.4	48.9	51.9	54.7	3.1	5.9	8.5	11.6	0. 2. 54.64	(- 0.30)	54.89	0.19	5.30	[- 0.02]	0. 3. 0.17			+ 0.43	
	3	β Cassiopeiæ	B	...	...	...	...	...	30.6	44.8	49.5	54.2	59.2	0. 3. 30.60	[+ 6.34]	30.59			5.28	0. 3. 35.87			+ 1.64	
	4	α Cassiopeiæ	B	...	...	...	...	...	29.7	43.0	47.4	51.8	56.4	0. 34. 29.78		29.80				0. 34. 35.08			+ 1.11	
	5	η Cassiopeiæ	B	14.5	19.4	23.8	32.9	37.5	42.0	55.9	0.2	4.7	9.6	0. 42. 42.07		42.07				0. 42. 47.35			+ 1.08	
	6	γ Cassiopeiæ	B	49.5	54.2	59.4	6.3	10.6	14.9	27.8	31.9	36.0	49.3	0. 50. 19.25		19.21				0. 50. 24.49			+ 1.17	
	7	μ Cassiopeiæ	B	49.5	53.8	58.0	6.3	10.6	14.9	27.8	31.9	36.0	40.4	1. 1. 14.94		14.98				1. 1. 20.26			+ 0.69	
	8	β Andromedæ ...	B	30.4	33.6	36.6	42.6	45.6	48.8	58.0	0.8	3.8	6.9	1. 3. 48.72		48.93	54.29	5.36		1. 3. 54.21			+ 0.14	
	9	ψ Cassiopeiæ.....	B	49.6	56.0	2.5	15.4	22.1	28.6	...	...	...	...	1. 18. 28.48		28.29				1. 18. 33.57			+ 1.30	
	10	δ Cassiopeiæ	B	...	...	...	...	...	44.7	49.8	54.6	9.3	14.1	1. 18. 54.56		54.53				1. 18. 59.81			+ 0.73	
	11	Polaris	B	35.4	39.6	43.6	48.3	11.5	16.2	20.6	33.0	36.9	40.7	1. 20. 22.21		12.71	17.79	5.08		.....				
	12	η Piscium	B	...	...	39.6	44.5	47.2	49.8	57.4	0.0	...	...	1. 25. 49.76		50.07	55.26	5.19		1. 25. 55.35			- 0.28	
	13	δ Andromedæ ...	B	8.5	12.2	16.0	23.4	27.0	30.7	41.9	45.5	49.1	53.0	1. 31. 30.75		30.86				1. 31. 36.14			+ 0.16	
	14	γ Andromedæ ...	B	1.4	4.7	8.0	14.2	17.7	20.9	30.6	33.8	37.0	40.2	1. 34. 20.86		21.03				1. 34. 26.31			- 0.03	
	15	ν Piscium	B	40.9	43.4	46.0	50.9	53.4	55.8	3.4	5.8	8.1	10.7	1. 35. 55.85		56.22	1.45	5.23		1. 36. 1.50			- 0.41	
	16	δ Andromedæ...	B	39.6	43.5	47.3	55.1	59.0	2.8	14.4	18.1	22.0	26.0	1. 37. 2.80		2.89				1. 37. 8.17			+ 0.15	
	17	α Piscium	B	33.9	36.2	38.8	43.7	46.2	48.9	56.2	58.8	1.2	4.0	1. 39. 48.80		49.14	54.41	5.27		1. 39. 54.42			- 0.42	
	18	α Ceti	B	31.0	33.4	36.0	40.8	43.4	45.9	53.3	55.8	58.1	0.8	2. 56. 45.86		46.23	51.40	5.17		2. 56. 51.51			- 0.90	
	19	α Ceti.....(E&E)	B	41.8	56.6	...	26.4	...	56.0	10.9	...	...	...	2. 56. 45.75		46.12	51.40	5.28		.....				
	20	α Persei	B	26.6	30.4	34.1	41.6	45.6	49.5	0.9	4.6	8.3	12.2	3. 16. 49.40		49.49				3. 16. 54.77			- 1.03	
	21	Piazzi III. 51	B	5.3	10.1	15.0	24.7	29.6	34.6	49.5	54.1	58.9	4.0	3. 20. 34.60		34.57				3. 20. 39.85			- 1.15	
	22	σ Persei	B	48.0	51.7	55.5	2.6	6.4	10.0	21.1	24.9	28.1	32.1	3. 23. 10.06		10.17				3. 23. 15.45			- 1.11	
	23	ψ Persei	B	39.5	43.1	46.9	54.2	58.0	1.6	12.7	16.2	20.0	23.8	3. 29. 1.62		1.73				3. 29. 7.01			- 1.17	
	24	Piazzi III. 97	B	35.2	40.1	45.0	54.6	59.6	4.6	19.3	24.1	28.8	34.0	3. 34. 4.55		4.52				3. 34. 9.80			- 1.37	
	25	δ Persei	B	4.9	8.4	12.2	19.5	23.2	26.9	37.9	41.5	45.1	48.9	3. 35. 26.87		26.98				3. 35. 32.26			- 1.24	
	26	α Persei	B	25.8	28.7	31.7	37.5	40.5	43.5	52.1	54.9	57.9	0.9	3. 37. 43.36		43.59				3. 37. 48.87			- 1.18	
	27	η Tauri	B	57.5	0.1	2.9	8.1	10.9	13.8	21.8	24.4	27.1	30.0	3. 41. 13.67		13.93	19.21	5.28		3. 41. 19.21			- 1.17	
	28	η Tauri ....(E&E)	B	5.6	21.9	...	54.2	...	26.6	42.9	...	...	...	3. 41. 13.63		13.89	19.21	5.32		.....				
	29	27 Tauri.....	B	38.0	40.7	43.4	48.9	51.5	54.2	2.5	5.1	7.7	10.6	3. 42. 54.27		54.53				3. 42. 59.81			- 1.19	
	30	28 Tauri.....	B	39.3	42.0	44.6	50.0	52.9	55.5	3.7	6.2	8.9	11.9	3. 42. 55.51		55.77				3. 43. 1.05			- 1.19	
	31	ζ Persei	B	...	16.6	19.7	25.4	28.4	31.4	40.0	42.9	45.8	...	3. 47. 31.30		31.53				3. 47. 36.81			- 1.25	
	32	Piazzi III. 186 ...	B	...	6.2	9.9	17.2	20.9	24.6	35.6	39.3	42.9	...	3. 48. 24.61		24.72				3. 48. 30.00			- 1.39	
	33	ϵ Persei	B	29.0	32.1	35.4	41.7	44.9	48.2	58.0	1.0	4.2	7.6	3. 50. 48.22		48.39				3. 50. 53.67			- 1.34	
	34	ξ Persei	B	50.4	53.6	56.5	...	...	8.8	...	20.9	23.9	27.0	3. 52. 8.74		8.94				3. 52. 14.22			- 1.32	
	35	λ Tauri	B	35.6	38.0	40.5	45.6	48.1	50.7	58.2	0.8	3.1	6.0	3. 54. 50.67		50.99				3. 54. 56.27			- 1.24	
	36	Groombridge 775	B	...	12.1	19.3	33.1	40.3	47.4	8.3	15.2	22.1	...	3. 58. 47.28		47.06				3. 58. 52.34			- 2.17	
	37	ϵ Persei	B	40.8	44.2	48.0	55.2	59.0	2.6	13.5	17.1	20.8	24.6	4. 1. 2.60		2.71				4. 1. 7.99			- 1.53	
	38	Lalande 7721	B	...	...	7.9	16.9	21.5	26.2	39.9	44.3	...	...	4. 6. 26.14		26.14				4. 6. 31.42			- 1.79	
	39	Groombridge 779	B	...	...	...	...	...	56.6	42.0	57.1	12.0	27.4	4. 8. 56.78		55.82				4. 9. 1.10			- 4.30	
	40	Lalande 7984	B	...	37.2	41.9	51.8	56.6	1.5	16.0	20.8	25.6	...	4. 14. 1.46		1.44				4. 14. 6.72			- 1.97	
	41	63 Tauri.....	B	7.6	10.0	12.5	17.5	20.1	22.8	...	...	...	...	4. 17. 22.83		23.13				4. 17. 28.41			- 1.40	
	42	ϵ Tauri	B	12.8	15.3	17.8	23.1	25.8	28.4	36.2	38.8	41.4	44.0	4. 22. 28.37		28.66	33.99	5.33		4. 22. 33.94			- 1.44	
	43	Aldebaran	B	...	...	42.7	48.0	50.5	53.0	0.9	3.4	...	...	4. 29. 53.09		53.39	58.56	5.17		4. 29. 58.67			- 1.47	
	44	ϵ Aurigæ	B	...	54.9	58.0	3.5	6.5	9.4	18.2	21.2	24.1	...	4. 50. 9.50		9.72	14.92	5.20		4. 50. 15.00			- 1.75	
	45	ϵ Aurigæ.....	B	...	...	...	...	...	26.9	36.9	40.3	43.7	47.1	4. 54. 26.69		26.83				4. 54. 32.11			- 1.99	
	46	Capella	B	35.7	39.2	42.8	49.9	53.5	57.0	7.6	11.1	14.7	18.4	5. 8. 57.01		57.14				5. 9. 2.42			- 2.17	
	47	β Tauri	B	22.9	25.4	28.1	33.7	36.5	39.4	48.0	50.5	53.3	56.3	5. 19. 39.42		39.67	44.91	5.24		5. 19. 44.95			- 1.90	
	48	χ Aurigæ.....	B	36.3	39.4	42.1	48.0	51.1	54.0	2.7	5.5	8.3	11.4	5. 25. 53.89		54.11				5. 25. 59.39			- 2.00	
	49	ζ Tauri	B	...	...	...	...	...	19.3	22.0	30.1	32.5	35.1	5. 31. 22.03		22.31				5. 31. 27.59			- 1.87	
	50	24 Camelopardi ...	B	43.1	47.7	...	...	...	5.5	10.1	...	...	...	5. 34. 10.05		10.06				5. 34. 15.34			- 2.88	
	51	α Orionis	B	13.8	16.1	18.6	23.6	26.1	28.6	36.0	38.6	41.0	43.6	5. 49. 28.61		28.96	34.27	5.31		5. 49. 34.24			- 1.82	
	52	β Aurigæ	B	30.1	33.6	37.1	44.0	47.6	51.1	1.5	5.0	8.3	12.0	5. 51. 51.05		51.18				5. 51. 56.46			- 2.50	
	53	37 Camelopardi ...	B	...	22.8	27.4	37.1	42.0	46.9	0.9	5.9	10.4	...	6. 0. 46.71		46.69				6. 0. 51.96			- 3.34	
	54	η Geminorum ...	B	16.2	19.0	21.8	27.0	29.8	32.3	40.5	43.2	45.9	48.7	6. 8. 32.45		32.72	38.04	5.32		6. 8. 37.99			- 2.07	

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation.							
															(Level).							
															[Azimuth].							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h m s	°	s	s	s	s	h m s	s	
				s	s	s	s	s	s	s	s	s	s									
Jan. 30	1	ε Geminorum	B	...	...	17.9	23.3	26.1	28.7	36.9	39.6	...	...	6. 37. 28.76	+ 1.00	29.02			5.28	6. 37. 34.29	- 2.24	
	2	λ Ursæ Min. S.P..	B	21.9	27.1	32.3	38.8	...	...	...	...	...	...	7. 25. 3.85	(- 0.30)	16.05	20.83	4.78	[- 0.02]	.....		
	3	Procyon.....	B	33.1	35.5	38.0	42.9	45.5	48.0	55.5	58.0	0.3	3.0	7. 33. 47.99	[+ 6.34]	48.35	53.65	5.30		7. 33. 53.62	- 2.10	
	4	κ Geminorum ...	B	50.7	53.5	56.0	1.6	4.2	7.1	...	...	...	...	7. 38. 7.02		7.28				7. 38. 12.55	- 2.42	
	5	Pollux	B	...	...	42.9	48.4	51.2	54.0	...	5.2	8.0	11.1	7. 38. 54.07		54.32	59.65	5.33		7. 38. 59.59	- 2.51	
	6	6 Cancri.....	B	48.0	50.7	53.6	59.1	2.0	4.8	13.3	16.0	18.7	21.7	7. 57. 4.80		5.05	10.39	5.34		7. 57. 10.32	- 2.54	
	7	15 Cancri	B	...	...	27.9	33.5	36.4	39.4	48.0	50.5	...	...	8. 6. 39.29		39.53				8. 6. 44.80	- 2.61	
	8	Piazzi VIII. 8 ...	B	8.9	15.4	22.1	35.0	41.9	48.2	...	...	...	...	8. 10. 48.28		48.09				8. 10. 53.36	- 5.67	
	9	Jupiter 1 L.	B	36.6	...	41.9	...	...	52.4	...	3.0	...	8.1	8. 22. 52.40						8. 22. 59.56		
	10	Jupiter 2 L.	B	39.8	...	45.1	...	...	55.6	...	6.1	...	11.5	8. 22. 55.62						8. 31. 12.46	- 5.13	
	11	π Ursæ Majoris...	B	32.7	38.3	44.1	55.7	1.8	7.5	24.7	30.0	35.9	42.1	8. 31. 7.31		7.19				8. 32. 11.23	- 2.16	
	12	δ Hydræ	B	...	...	...	...	...	5.5	13.1	15.5	18.0	20.6	8. 32. 5.60		5.96				8. 35. 0.78	- 2.39	
	13	Bradley 1227	B	39.5	42.0	44.8	49.9	52.6	55.2	...	...	8.2	11.1	8. 34. 55.23		55.51				8. 38. 48.79	- 2.37	
	14	δ Cancri	B	...	...	32.8	38.0	40.6	43.3	51.0	53.6	...	...	8. 38. 43.23		43.52				8. 40. 26.80	- 2.62	
	15	ι Cancri	B	4.2	7.1	10.0	15.6	18.5	21.4	29.8	32.5	35.5	38.2	8. 40. 21.29		21.53				8. 42. 57.62	- 2.16	
	16	ρ Hydræ	B	37.0	39.5	42.0	47.0	49.5	52.0	59.6	2.0	4.2	7.0	8. 42. 51.99		52.35				8. 49. 55.89	- 2.16	
	17	ζ Hydræ	B	...	...	38.0	40.2	...	...	50.2	...	0.2	2.6	8. 49. 50.26		50.62				8. 52. 8.65	- 3.45	
	18	ι Ursæ Majoris...	B	40.9	44.6	48.1	55.9	59.7	3.1	14.5	18.1	21.9	25.8	8. 52. 3.28		3.38				8. 53. 56.34	- 3.10	
	19	ι Ursæ Majoris...	B	30.9	34.1	37.6	44.1	47.7	51.0	1.0	4.1	7.6	11.0	8. 53. 50.92		51.07				8. 56. 29.48	- 3.40	
	20	κ Ursæ Majoris...	B	7.5	11.1	14.8	22.1	25.9	29.5	40.4	44.1	47.7	51.5	8. 56. 29.48		29.59				8. 59. 21.23	- 5.66	
	21	σ ¹ Ursæ Majoris...	B	38.0	44.0	50.2	3.2	9.9	16.1	35.7	41.5	48.0	54.5	8. 59. 16.14		15.96				9. 1. 20.03	- 5.71	
	22	σ ² Ursæ Majoris...	B	36.3	42.5	48.9	2.0	8.3	14.9	34.4	40.8	47.1	54.0	9. 1. 14.95		14.76				9. 6. 11.98	- 4.71	
	23	c Ursæ Majoris...	B	35.4	40.3	45.9	...	...	6.8	...	27.9	32.8	38.1	9. 6. 6.77		6.71				9. 12. 25.22	- 2.88	
	24	38 Lyncis (2nd Star)	B	1.2	4.2	7.3	13.5	16.6	19.9	29.2	32.1	35.2	38.3	9. 12. 19.76		19.95				9. 14. 45.95	- 2.79	
	25	α Lyncis	B	22.3	25.4	28.2	34.3	37.6	40.5	49.6	52.5	55.5	58.7	9. 14. 40.47		40.68				9. 18. 38.40	- 2.54	
	26	κ Leonis	B	16.1	19.0	21.9	27.4	30.1	32.9	41.1	44.0	46.6	49.6	9. 18. 32.88		33.13				9. 23. 24.65	- 4.94	
	27	h Ursæ Majoris...	B	46.1	51.9	57.2	8.2	14.0	19.4	36.1	41.7	47.0	52.9	9. 23. 19.47		19.38				9. 25. 23.42	- 6.36	
	28	d Ursæ Majoris...	B	34.4	41.9	48.9	3.6	11.1	18.5	...	...	...	...	9. 25. 18.41		18.15				9. 25. 37.79	- 3.67	
	29	θ Ursæ Majoris...	B	...	...	...	44.3	48.5	52.5	4.5	8.5	12.3	16.8	9. 25. 52.45		52.52				9. 30. 38.52		
	30	δ 2 L.	B	28.8	31.3	34.0	39.2	42.0	44.5	52.3	55.1	57.6	0.6	9. 31. 44.55		44.86				9. 38. 6.35	- 2.25	
	31	α Leonis.....	EB	17.6	20.3	22.9	...	...	...	...	42.8	45.2	47.9	9. 35. 32.79		33.12	38.16	5.04	5.04	.....		
	32	ψ Leonis	B	45.5	48.0	50.5	55.6	58.2	0.8	...	...	...	...	9. 38. 0.77		1.08			5.28	9. 38. 6.35	- 2.25	
	33	μ Leonis	EB	...	...	...	...	...	48.0	56.3	59.4	2.0	4.8	9. 46. 48.17		48.42	53.43	5.01	5.04	.....		
	34	ν Leonis	B	...	...	...	29.3	31.9	34.2	42.0	44.3	46.9	49.5	9. 52. 34.31		34.63			5.28	9. 52. 39.90	- 2.19	
	35	η Leonis.....	B	21.0	23.5	26.1	31.2	34.0	36.4	44.1	46.8	49.2	52.0	10. 1. 36.44		36.74				10. 1. 42.01	- 2.25	
	36	Regulus.....	B	21.4	33.9	36.3	41.5	44.0	46.5	54.1	56.6	59.2	1.8	10. 2. 46.54		46.86	52.16	5.30		10. 2. 52.13	- 2.16	
	37	λ Ursæ Majoris...	B	26.4	30.0	33.3	40.0	43.6	46.9	57.3	0.6	4.0	7.5	10. 10. 46.98		47.12	16.62	5.34		10. 10. 52.39	- 3.03	
	38	γ ¹ Leonis	B	55.1	58.0	0.5	5.8	8.2	10.9	19.0	21.6	24.0	26.8	10. 14. 11.00		11.28				10. 14. 16.55	- 2.28	
	39	μ Ursæ Majoris...	B	45.4	48.8	52.1	59.0	2.2	5.5	15.4	18.8	22.0	25.5	10. 16. 5.48		5.63				10. 16. 10.90	- 2.95	
Feb. 2	40	⊙ 1 L.	L	12.3	15.1	17.8	22.9	25.5	28.0	35.9	38.4	40.9	43.6	21. 1. 28.05	(- 0.45)				5.42	21. 2. 41.92		
	41	⊙ 2 L.	L	28.8	31.3	33.9	39.1	41.7	44.2	52.0	54.5	57.1	0.0	21. 3. 44.27	[+ 4.98]	36.54			[- 0.04]	.....		
	42	Polaris	B	31.9	38.5	44.0	9.2	14.1	18.5	34.9	40.7	46.0	56.5	1. 20. 17.26		9.94	14.68	4.74	5.33	1. 20. 15.27	+ 39.17	
	43	ν Piscium	B	40.9	43.4	45.9	50.9	53.4	55.9	3.3	5.8	8.1	10.8	1. 35. 55.85		56.14	1.41	5.27		1. 36. 1.47	- 0.37	
	44	ο Piscium	B	33.9	36.2	38.8	43.8	46.2	48.8	56.2	58.8	1.3	3.9	1. 39. 48.80		49.08	54.37	5.29		1. 39. 54.41	- 0.38	
	45	ο Piscium. (E&E)	B	46.0	1.0	16.0	31.0	46.0	0.9	15.9	...	...	...	1. 39. 48.76		49.04	54.37	5.33		.....		
	46	ε Leporis	L	...	45.7	48.5	53.9	56.5	59.2	7.2	9.9	12.5	...	5. 0. 59.20		59.60	4.97	5.37	5.38	.....		
	47	β Tauri	L	22.5	25.3	28.0	33.6	36.4	39.4	47.7	50.7	53.3	56.1	5. 19. 39.31		39.51	44.88	5.37		.....		
	48	ι Leonis.....	B	11.5	14.0	16.5	21.4	24.0	26.5	34.1	36.5	39.1	41.8	11. 18. 26.55		26.82			5.33	11. 18. 32.13	- 1.97	
	49	γ Crateris	B	...	...	...	...	...	37.1	44.7	47.5	50.0	52.6	11. 19. 37.08		37.46				11. 19. 42.77	- 1.69	
	50	Groombridge 1787	B	...	...	...	...	...	...	6.2	10.9	15.4	20.1	11. 23. 52.57		52.57				11. 23. 57.88	- 3.61	
	51	Groombridge 1791	B	...	28.2	33.1	42.1	47.1	...	...	...	...	46.2	11. 24. 51.38		51.38				11. 24. 56.69	- 3.60	
	52	γ Cephei S.P. ...	B	...	...	8.5	19.0	52.2	...	...	37.0	...	59.5	11. 34. 52.60		53.53				23. 34. 58.84	+ 6.05	
	53	χ Ursæ Majoris...	B	...	12.4	16.0	23.5	27.2	31.1	42.2	45.9	49.5	...	11. 40. 31.01		31.09				11. 40. 36.40	- 2.88	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 45, + 17^s.79.
Correction for passage of Semidiameter, No. 30, - 71^s.62.

- 1, 2, 4, 9, 10, 11, 13, 17, 23, 32, 34, 49, 50, 51, 52, 53. Cloudy.
2. Observed over wire P with the transit-micrometer set to readings 36^s.135, 36^s.095, 36^s.060, 36^s.025.
30. Correction to R.A. on true meridian, + 0^s.01.
42. Observed over wire T with the transit-micrometer set to readings 35^s.201, 35^s.262, 35^s.310, 35^s.530, 35^s.569, 35^s.612, 35^s.755, 35^s.805, 35^s.857, 35^s.935.
51. Observed over wires P, Q, R, S and Y.
8. Faint; cloudy.
33. Very faint; cloudy.

MONTH and DAY	No. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
1896 FEB.	Feb. 2	1	β Leonis	B	55.8	26.2	...	...	...	...	52.0	54.5	57.1	11.43.41.73	+ 1.00	41.97	47.16	5.19	5.33	11.43.47.28	- 1.92	
	2	γ Ursæ Majoris...	B	54.0	58.1	2.4	11.0	15.4	19.6	32.1	36.4	40.5	45.0	11.48.19.47	(- 0.45)	19.50			[- 0.04]	11.48.24.81	- 3.17	
	3	π Virginis	B	58.9	...	...	...	...	...	36.2	38.7	41.1	...	11.55.28.74	[+ 4.98]	29.02	34.35	5.33		11.55.34.33	- 1.77	
	4	3 Comæ.....	B	...	...	59.7	4.6	...	10.1	17.6	20.1	22.8	...	12.5.9.91		10.14				12.5.15.45	- 1.86	
	5	4 Comæ.....	B	14.5	17.2	20.0	25.6	28.2	31.1	39.5	42.0	44.9	47.8	12.6.31.09		31.29				12.6.36.60	- 2.01	
	6	δ Ursæ Majoris...	B	...	...	...	5.0	10.0	14.5	28.4	...	...	...	12.10.14.50		14.49				12.10.19.80	- 3.19	
	7	η Virginis	B	16.1	18.8	21.3	26.1	28.5	31.1	38.6	41.0	43.4	46.0	12.14.31.10		31.41	36.65	5.24		12.14.36.72	- 1.61	
	8	δ 2 L.....	B	40.4	43.0	45.6	50.5	53.2	55.9	3.4	6.0	8.5	11.1	12.17.55.77		56.10				12.16.53.03		
	9	γ Comæ.....	B	24.8	27.6	30.2	36.1	39.1	41.9	50.1	53.0	55.8	58.7	12.21.41.74		41.93				12.21.47.24	- 1.97	
	10	δ^2 Corvi	B	9.3	11.9	14.2	19.5	22.1	24.7	32.3	35.0	37.4	40.1	12.24.24.66		25.04	30.35	5.31		12.24.30.35	- 1.44	
	11	δ^2 Corvi ... (E&E)	B	20.8	36.3	...	7.2	...	38.0	53.6	...	...	...	12.24.24.64		25.02	30.35	5.33		.....		
	12	η Corvi	B	23.0	25.5	28.0	33.1	35.9	38.3	46.1	48.6	51.1	53.9	12.26.38.36		38.74				12.26.44.05	- 1.44	
	13	β Canum Venaticum	B	...	...	...	...	...	...	29.3	31.8	34.1	36.6	12.31.21.79		45.12				12.28.50.43	- 2.25	
	14	γ Virginis	B	...	...	...	...	...	...	...	29.3	31.8	34.1	36.6	12.31.21.79		22.12				12.31.27.43	- 1.49
	15	χ Virginis	B	33.6	36.0	38.5	43.6	46.1	48.3	55.9	58.4	0.9	3.5	12.33.48.49		48.83				12.33.54.14	- 1.46	
	16	γ^1 Virginis	B	49.6	4.3	6.8	...	...	...	...	31.5	34.0	48.8	12.36.19.18		19.49				12.36.24.80	- 1.49	
	17	γ^2 Virginis	B	...	...	9.6	14.3	16.9	19.5	26.9	29.3	...	...	12.36.19.43		19.74				12.36.25.05	- 1.49	
	18	Bradley 74 S.P...	B	31.5	41.2	48.9	56.9	5.4	13.5	...	...	...	...	12.44.52.90		54.50				0.44.59.81	+ 8.60	
	19	Bradley 90 S.P...	B	14.1	19.5	24.3	29.5	44.3	49.4	54.5	4.9	9.6	14.5	12.46.44.44		44.94				0.46.50.25	+ 1.35	
	20	ψ Virginis	B	37.4	39.9	42.2	47.4	50.0	52.2	0.0	2.2	4.8	7.4	12.48.52.36		52.70				12.48.58.01	- 1.38	
	21	δ Virginis	B	2.9	5.4	8.0	12.7	15.4	17.9	25.1	27.7	30.1	32.6	12.50.17.79		18.08	23.30	5.22		12.50.23.39	- 1.46	
	22	θ Virginis	B	14.6	16.9	19.5	24.2	26.9	29.3	36.9	39.4	41.7	44.2	13.4.29.37		29.70	35.15	5.45		13.4.35.01	- 1.33	
	23	γ Hydræ	B	...	58.0	0.4	6.0	8.7	11.5	19.5	22.0	24.5	...	13.13.11.35		11.75				13.13.17.06	- 1.19	
	24	Spica	B	23.1	25.5	28.1	33.2	35.9	38.1	46.0	48.2	50.7	53.4	13.19.38.23		38.59	43.99	5.40		13.19.43.90	- 1.22	
	25	Polaris S.P.	B	17.2	21.6	25.6	29.7	36.9	58.0	1.5	5.5	11.3	15.8	13.20.1.49		9.30	14.21	4.91		1.20.14.61	+ 39.64	
	26	ζ Virginis	B	4.2	6.8	9.3	14.2	16.6	19.1	26.5	29.0	31.5	34.0	13.29.19.13		19.44	24.78	5.34		13.29.24.75	- 1.23	
	27	51 Andromedæ S.P...	B	8.3	12.2	15.8	19.5	30.6	34.3	38.0	45.2	48.9	52.8	13.31.30.55		29.97				1.31.35.28	+ 0.24	
	28	m Virginis	B	49.4	52.0	54.6	59.5	2.1	4.5	12.1	14.5	17.0	19.7	13.36.4.55		4.89	10.24	5.35		13.36.10.20	- 1.14	
	29	54 Andromedæ S.P...	B	...	43.3	47.0	50.7	2.6	6.1	10.1	18.0	21.9	...	13.37.2.43		2.84				1.37.8.15	+ 0.23	
	30	Venus 2 L.	WB	20.2	22.9	25.5	31.0	33.6	36.4	44.4	47.0	49.7	52.3	18.23.36.31		36.71			5.33	18.23.41.45		
	31	α Lyræ	WB	59.6	2.8	5.9	12.1	15.4	18.6	28.2	31.2	34.4	37.8	18.33.18.61		18.75	24.09	5.34	[- 0.03]	18.33.24.06	+ 0.92	
Feb. 3	32	$\odot$ 1 L.....	WB	15.9	18.5	21.0	26.2	28.8	31.3	39.4	42.0	44.3	47.2	21.5.31.47	+ 1.07	39.82				21.6.45.12		
	33	$\odot$ 2 L.....	WB	31.8	34.5	37.0	42.1	44.9	47.4	55.4	57.8	0.2	2.9	21.7.47.41	(- 0.36)							
	34	α Andromedæ ...	WB	38.0	40.6	43.4	49.0	51.9	54.6	3.0	5.9	8.6	11.6	0.2.54.67		54.87	0.15	5.28	5.30	0.3.0.17	+ 0.47	
	35	β Andromedæ ...	WB	30.6	33.7	36.6	42.7	45.9	48.7	57.9	0.9	3.9	6.9	1.3.48.79		48.96	54.23	5.27		1.3.54.26	+ 0.20	
	36	Polaris	WB	34.6	41.5	55.0	1.6	13.7	20.0	31.8	38.0	48.3	54.2	1.20.15.47		8.59	13.73	5.14		1.20.13.89	+ 40.12	
	37	η Persei	WB	35.4	39.9	44.0	52.9	57.4	1.8	14.6	19.1	23.2	28.0	2.43.1.65		1.70				2.43.7.00	- 0.48	
	38	τ Persei	WB	23.9	28.0	32.0	39.9	44.0	48.1	0.2	4.1	8.2	12.3	2.46.48.09		48.16				2.46.53.46	- 0.56	
	39	ϵ Arietis.....	WB	55.1	57.8	0.3	5.8	8.2	11.0	18.9	21.5	24.1	26.9	2.53.10.97		11.21	16.56	5.35		2.53.16.51	- 0.77	
	40	λ Ceti.....	WB	...	...	...	58.6	1.1	3.6	11.1	13.3	16.0	18.6	2.54.3.56		3.84				2.54.9.14	- 0.82	
	41	α Ceti.....	WB	30.9	33.4	35.9	40.8	43.3	45.8	53.3	55.8	58.1	0.6	2.56.45.80		46.10	51.35	5.25		2.56.51.40	- 0.85	
	42	ρ Persei	WB	6.9	10.0	13.2	19.3	22.7	26.0	35.4	38.4	41.6	44.9	2.58.25.85		26.00				2.58.31.30	- 0.77	
	43	ι Persei	WB	6.2	10.0	13.8	21.0	25.0	29.0	40.1	44.0	47.8	51.8	3.1.28.89		28.98				3.1.34.28	- 0.77	
	44	Bradley 431	WB	55.4	6.2	18.1	40.5	52.0	3.5	37.4	48.5	59.6	11.4	3.7.3.31		2.87				3.7.8.17	- 0.73	
	45	Bradley 448	WB	10.1	16.1	22.1	34.0	40.1	46.0	3.7	9.6	15.3	21.3	3.10.45.86		45.78				3.10.51.08	- 0.87	
	46	κ^1 Ceti	WB	34.9	37.3	39.8	44.6	47.1	49.7	57.1	59.5	2.0	4.5	3.13.49.66		49.96				3.13.55.26	- 0.95	
	47	Piazzi III. 37 ...	WB	...	27.8	31.5	38.9	42.7	46.3	58.0	1.6	5.1	...	3.15.46.52		46.61				3.15.51.91	- 0.94	
	48	Piazzi III. 52 ...	WB	46.0	49.8	53.5	1.0	4.8	8.7	20.1	23.8	27.4	31.4	3.20.8.67		8.76				3.20.14.06	- 0.99	
	49	Piazzi III. 61 ...	WB	3.5	7.1	10.9	...	...	...	40.1	43.9	47.8	...	3.22.25.57		25.67				3.22.30.97	- 1.01	
	50	σ Persei	WB	...	...	...	2.5	6.1	10.0	20.9	24.6	28.1	32.0	3.23.9.90		10.00				3.23.15.30	- 1.02	
	51	Groombridge 704	WB	12.7	16.3	20.2	27.6	31.4	35.3	46.1	50.0	53.8	57.9	3.27.35.15		35.24				3.27.40.54	- 1.07	
	52	W. B. (2) III. 592	WB	...	55.5	58.1	3.2	6.0	8.3	16.1	18.8	21.3	...	3.30.8.43		8.68				3.30.13.98	- 1.04	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 11, + 17.45.
 Corrections for passage of Semidiameter, Nos. 8 and 30, - 68.39 and - 0.57.

1. Observed over wires M, O, V, W and X.
 3. Observed over wires N, U, V and W.

16. Observed over wires N, O, P, W, X and Y.

18. Observed over wire T with the transit-micrometer set to readings 36.600, 36.200, 35.800, 35.400, 35.000, 34.600.

25. Observed over wire T with the transit-micrometer set to readings 35.470, 35.415, 35.376, 35.350, 35.289, 35.120, 35.070, 35.025, 35.006, 34.960.

36. Observed over wire T with the transit-micrometer set to readings 36.294, 36.348, 36.480, 36.521, 36.623, 36.693, 36.780, 36.842, 36.963, 36.990.

- 1, 2, 3, 4, 7, 12, 20. Cloudy.

8. Correction to R.A. on true meridian, + 0.01.

1998G01MM. 58r. .1C

[14]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898G02MM.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	h m s	s						
Feb. 3	1	11 Tauri.....	L	12.7	15.5	18.1	23.5	26.2	29.1	37.4	40.0	42.7	45.4	3. 34. 29.07	+ 1.07	29.29	34.59	5.30	5.30	.....		
	2	Lalande 6853	WB	...	...	...	38.6	41.6	44.1	52.2	...	...	...	3. 37. 44.14	(- 0.36)	44.37			5.30	3. 37. 49.67	- 1.10	
	3	21 Tauri.....	WB	...	...	...	...	...	...	46.2	48.9	51.8	54.3	3. 39. 38.11	[+ 4.98]	38.34				3. 39. 43.64	- 1.11	
	4	Groombridge 741	WB	...	...	...	22.9	27.1	31.3	43.3	47.3	51.4	55.4	3. 42. 31.19		31.26				3. 42. 36.56	- 1.28	
	5	Lalande 7019	WB	45.1	49.5	54.1	3.3	8.1	12.6	26.6	31.1	35.7	40.5	3. 45. 12.68		12.69				3. 45. 17.99	- 1.39	
	6	ε Persei	WB	28.8	32.0	35.1	41.8	44.9	48.0	57.9	0.9	4.1	7.5	3. 50. 48.11		48.26				3. 50. 53.56	- 1.27	
	7	35 Eridani.....	WB	...	59.0	1.6	6.2	8.9	11.4	18.8	21.3	23.8	...	3. 56. 11.40		11.72				3. 56. 17.02	- 1.19	
	8	ν Tauri	WB	18.0	20.4	23.1	28.0	30.5	33.0	40.4	42.9	45.8	47.9	3. 57. 32.96		33.25				3. 57. 38.55	- 1.20	
	9	50 Persei	WB	...	...	...	30.4	33.5	36.4	46.0	49.0	52.0	55.4	4. 1. 36.56		36.72				4. 1. 42.01	- 1.36	
	10	Lalande 7819	WB	...	30.1	32.6	37.7	40.1	42.7	50.2	52.7	55.2	...	4. 5. 42.68		43.03				4. 5. 48.32	- 1.24	
	11	μ Tauri	WB	33.8	36.2	38.9	43.9	46.2	48.8	56.2	58.8	1.3	4.0	4. 9. 48.82		49.10				4. 9. 54.39	- 1.28	
	12	γ Tauri	J	32.5	35.3	37.9	43.0	45.5	48.1	55.9	58.3	0.8	3.6	4. 13. 48.10		48.35	53.70	5.35	5.36	.....		
	13	Piazzi IV. 46.....	WB	57.4	0.7	4.0	10.6	14.0	17.4	27.3	30.7	34.0	37.5	4. 16. 17.37		17.51			5.30	4. 16. 22.80	- 1.54	
	14	63 Tauri.....	WB	...	9.9	12.5	17.4	20.1	22.8	30.5	33.1	35.6	...	4. 17. 22.76		23.01				4. 17. 28.30	- 1.35	
	15	θ ¹ Tauri.....	WB	18.1	20.9	23.4	28.6	31.1	33.8	41.5	44.0	46.5	49.4	4. 22. 33.74		33.99				4. 22. 39.28	- 1.38	
	16	47 Eridani.....	WB	...	54.1	56.8	1.9	4.1	6.7	14.3	16.7	19.2	...	4. 29. 6.75		7.10				4. 29. 12.39	- 1.36	
	17	c ¹ Tauri	WB	1.3	3.9	6.2	11.3	14.0	16.4	24.0	26.5	29.0	31.8	4. 32. 16.45		16.71				4. 32. 22.00	- 1.42	
	18	Piazzi IV. 112 ...	WB	...	...	...	28.8	39.4	48.9	19.5	28.8	39.1	49.5	4. 34. 49.10		48.75				4. 34. 54.04	- 3.67	
	19	μ Eridani	WB	59.0	1.4	4.0	8.8	11.4	14.0	21.3	23.7	26.1	28.8	4. 40. 13.86		14.19	19.49	5.30		4. 40. 19.48	- 1.42	
	20	π ¹ Orionis	R.WB	37.5	40.0	42.5	47.5	50.0	52.5	...	...	...	...	4. 44. 52.51		52.83				4. 44. 58.12	- 1.48	
	21	W. B. (2) IV. 1214-5	WB	...	...	38.1	44.2	46.9	49.5	57.8	0.4	...	...	4. 55. 49.49		49.73				4. 55. 55.02	- 1.62	
	22	15 Orionis	R.WB	25.4	28.0	30.5	35.5	38.1	40.8	...	...	...	...	5. 3. 40.76		41.05				5. 3. 46.34	- 1.62	
	23	Rigel	WB	13.2	16.9	18.2	23.1	25.6	28.2	35.8	38.2	40.7	43.3	5. 9. 28.21		28.56	33.87	5.31		5. 9. 33.85	- 1.53	
	24	τ Orionis	WB	14.2	16.8	19.3	24.2	26.8	29.2	36.6	39.1	41.6	44.2	5. 12. 29.21		29.55				5. 12. 34.84	- 1.56	
	25	e Orionis	R.WB	37.1	39.6	42.1	47.1	49.6	52.1	59.6	2.0	4.5	7.0	5. 18. 52.08		52.45				5. 18. 57.74	- 1.58	
	26	ν Orionis	WB	35.1	37.5	40.0	44.9	47.3	50.0	57.5	59.9	2.2	4.9	5. 26. 49.94		50.28				5. 26. 55.57	- 1.62	
	27	26 Aurigæ	WB	36.3	39.4	42.1	48.0	50.9	53.7	2.1	5.2	8.0	11.0	5. 31. 53.68		53.87				5. 31. 59.16	- 1.97	
	28	α Orionis	WB	13.9	16.2	18.6	23.7	26.1	28.6	36.1	38.7	41.0	43.7	5. 49. 28.67		28.95	34.24	5.29		5. 49. 34.24	- 1.79	
Feb. 4	29	β Andromedæ ...	S	...	...	36.6	42.9	46.0	49.0	58.0	1.0	...	...	1. 3. 48.93	[+ 4.54]	49.09	54.22	5.13	5.16	1. 3. 54.25	+ 0.21	
	30	Polaris	S	2.6	12.6	23.4	29.7	43.1	50.6	0.9	18.1	29.0	38.6	1. 20. 14.36		8.30	12.84	4.54	[- 0.02]	.....		
	31	γ ² Ceti	S	35.1	37.6	40.1	44.9	47.4	50.0	57.3	59.9	2.1	4.9	2. 37. 49.94		50.22	55.33	5.11		2. 37. 55.38	- 0.73	
	32	μ Ceti	S	59.5	2.0	4.5	9.5	12.0	14.5	22.0	24.4	26.9	29.6	2. 39. 14.50		14.75				2. 39. 19.91	- 0.71	
	33	σ Arietis	S	24.9	27.5	30.0	35.2	37.9	40.3	48.0	50.5	53.0	55.8	2. 45. 40.32		40.56	45.66	5.10		2. 45. 45.72	- 0.73	
	34	ρ ³ Arietis	S	13.6	16.2	18.9	24.0	26.5	29.2	36.9	39.5	42.1	44.9	2. 50. 29.19		29.42				2. 50. 34.58	- 0.76	
	35	λ Ceti.....	S	48.7	51.3	54.0	58.8	1.4	3.9	11.4	13.9	16.2	19.0	2. 54. 3.87		4.13				2. 54. 9.29	- 0.81	
	36	ρ Persei	S	...	...	13.4	19.8	22.9	26.1	35.6	38.8	...	...	2. 58. 26.11		26.26				2. 58. 31.42	- 0.75	
	37	55 Arietis	S	59.8	2.8	5.6	10.9	14.0	16.8	25.2	28.0	30.7	33.8	3. 3. 16.77		16.95				3. 3. 22.11	- 0.82	
	38	Bradley 445	S	45.3	51.1	57.1	8.8	14.8	20.5	38.4	44.3	50.1	56.2	3. 8. 20.69		20.63				3. 8. 25.79	- 0.78	
	39	Bradley 448	S	10.2	16.2	22.2	34.0	40.1	46.0	3.8	9.5	15.4	21.5	3. 10. 45.92		45.86				3. 10. 51.02	- 0.83	
	40	Groombridge 696	S	43.3	46.6	50.1	57.0	0.6	4.1	14.4	17.9	21.4	24.8	3. 25. 4.04		4.16				3. 25. 9.32	- 1.01	
	41	Groombridge 699	S	5.6	9.3	...	...	...	26.5	...	...	43.7	47.3	3. 25. 26.49		26.61				3. 25. 31.77	- 1.02	
	42	W. B. (2) III. 592	S	...	...	...	3.5	6.1	8.7	21.5	24.1	39.6	55.1	3. 30. 8.73		8.96				3. 30. 14.12	- 1.03	
	43	ν Persei	S	43.3	46.8	50.1	56.7	0.1	3.5	13.5	16.8	20.0	23.9	3. 38. 3.48		3.62				3. 38. 8.78	- 1.14	
	44	18 Ursæ Min. S.P.	S	...	...	...	29.4	13.6	28.2	43.5	...	...	...	3. 45. 13.63		14.65				15. 45. 19.81	+ 0.93	
	45	ε Persei	S	29.0	32.2	35.4	41.9	45.0	48.3	58.0	1.1	4.3	7.8	3. 50. 48.31		48.45				3. 50. 53.61	- 1.25	
	46	35 Eridani.....	S	56.6	59.1	1.6	6.5	8.9	11.5	18.8	21.4	24.0	26.4	3. 56. 11.49		11.79				3. 56. 16.95	- 1.18	
	47	Piazzi III. 259 ...	S	39.4	43.3	47.2	54.8	59.0	2.6	14.1	18.1	22.0	25.9	4. 6. 2.66		2.74				4. 6. 7.90	- 1.52	
	48	56 Tauri.....	S	7.1	10.0	12.6	17.9	20.4	23.3	31.3	34.0	36.4	39.2	4. 13. 23.23		23.45				4. 13. 28.61	- 1.33	
	49	γ Tauri	S	...	...	...	...	...	56.0	58.5	1.1	3.7	...	4. 13. 48.30		48.53	53.69	5.16		4. 13. 53.69	- 1.31	
	50	Lalande 8170	S	26.8	29.4	32.1	37.4	40.0	42.5	50.1	52.6	55.3	58.0	4. 16. 42.43		42.66				4. 16. 47.82	- 1.34	
	51	63 Tauri.....	S	7.4	10.0	12.7	17.8	20.2	22.9	30.7	33.2	35.6	38.4	4. 17. 22.90		23.13				4. 17. 28.29	- 1.33	
	52	Piazzi IV. 99.....	S	16.8	19.3	22.0	27.2	29.9	32.4	40.0	42.6	45.3	48.0	4. 24. 32.36		32.59				4. 24. 37.75	- 1.38	

28. Faint; cloudy.

30. Observed over wire T with the transit-micrometer set to readings 34° 975, 35° 053, 35° 160, 35° 210, 35° 318, 35° 401, 35° 479, 35° 646, 35° 723, 35° 803.

42. Observed over wires R, S, T, W, X, Y and Z.

1898 FEB. 4

MONTH DAY YEAR	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from Observation.	Correction for Re- duction to Mean R.A. 1896.0.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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4. Very diffused.

14. Observed over wire Q with the transit-micrometer set to readings 36° 428, 35° 983, 35° 500, 35° 284, 34° 993, 34° 670, 34° 400, 34° 141, 33° 902, 33° 697.

21. Observed over wire T with the transit-micrometer set to readings 35° 979, 36° 107, 36° 339, 36° 548, 36° 892, 36° 994, 37° 288, 37° 428, 37° 732, 37° 883.

45. Observed over wire U with the transit-micrometer set to readings 35° 873, 35° 699, 35° 410, 35° 251, 35° 010, 34° 917, 34° 600, 34° 460, 34° 123, 33° 991.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898G0A0111

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
Feb. 5	1	Polaris	EB	36.3	3.3	12.1	22.1	42.1	52.3	6.7	15.8	24.6	45.3	1. 20. 13.43	+ 1.07	7.11	12.01	4.90	5.24	.....	
	2	η Tauri	EB	57.6	0.1	2.9	...	...	14.0	...	24.5	27.2	30.0	3. 41. 13.77	(- 1.43)	13.87	19.13	5.26	[- 0.01]	.....	
	3	ε Persei	EB	29.1	32.2	35.6	41.9	45.1	48.4	58.0	1.2	4.2	7.8	3. 50. 48.36	[+ 3.27]	48.39	...	...	...	3. 50. 53.63 - 1.23	
	4	Lalande F. 693 ...	EB	15.9	22.8	28.9	48.1	54.6	1.4	24.6	32.0	49.8	56.0	4. 55. 4.58	...	2.79	...	...	...	4. 55. 8.03 - 12.19	
	5	β Tauri	EB	22.6	25.4	28.2	34.0	36.7	39.5	48.1	50.7	53.6	56.5	5. 19. 39.54	...	39.62	44.84	5.22	.....	.....	
	6	δ Orionis.....	B	22.8	25.4	27.9	32.6	35.2	37.7	45.3	47.8	50.0	52.5	5. 26. 37.73	...	37.91	43.12	5.21	5.21	.....	
	7	δ Orionis...(E&E)	B	36.5	51.5	...	21.0	...	50.7	5.6	...	...	...	5. 26. 37.66	...	37.84	43.12	5.28	.....	.....	
	8	κ Orionis.....	EB	30.9	...	35.6	40.6	43.1	45.9	53.1	55.7	...	0.6	5. 42. 48.70	...	45.91	51.05	5.14	5.24	.....	
	9	α Orionis.....	EB	13.7	16.2	18.8	23.8	26.2	28.9	36.2	38.6	41.0	43.9	5. 49. 28.74	...	28.89	34.22	5.33	.....	.....	
	10	θ Aurigæ	EB	16.0	19.1	22.2	28.4	31.6	34.8	44.0	47.1	50.1	53.5	5. 52. 34.69	...	34.73	...	...	...	5. 52. 39.97 - 2.22	
	11	W. B. V. 1586 ...	EB	14.0	...	18.8	23.6	...	28.5	36.0	38.5	40.9	...	6. 3. 28.63	...	28.80	...	...	...	6. 3. 34.04 - 1.79	
Feb. 6	12	τ ¹ Arietis	DE	53.1	55.8	58.4	3.6	6.2	9.0	16.9	19.5	22.0	24.8	3. 15. 8.94	(- 1.75)	9.03	14.14	5.11	5.18	.....	
	13	ο Tauri	DE	53.7	56.0	58.8	3.6	6.0	8.5	16.0	18.5	...	...	3. 19. 8.59	...	8.72	13.82	5.10	[- 0.07]	.....	
	14	η Tauri	DE	57.8	0.5	3.0	8.5	11.2	13.9	...	...	...	...	3. 41. 13.94	...	14.02	19.11	5.09	.....	.....	
	15	ζ Persei	DE	14.1	17.0	20.0	...	...	...	...	43.1	46.0	49.0	3. 47. 31.54	...	31.58	...	...	...	3. 47. 36.75 - 1.14	
	16	35 Eridani.....	DE	56.5	59.3	1.7	6.5	9.0	11.5	19.0	21.4	23.9	26.4	3. 56. 11.53	...	11.70	...	...	...	3. 56. 16.87 - 1.15	
	17	ε Persei	DE	40.8	44.5	48.1	55.5	59.4	2.8	13.9	17.5	21.0	24.6	4. 1. 2.83	...	2.78	...	...	...	4. 1. 7.95 - 1.38	
	18	Lalande 7819 ...	DE	27.9	30.4	32.9	38.0	40.3	43.0	50.3	52.9	55.4	58.0	4. 5. 42.92	...	43.12	...	...	...	4. 5. 48.29 - 1.20	
	19	48 Tauri.....	DE	32.5	35.0	37.7	42.7	45.3	47.9	55.8	58.2	0.7	3.3	4. 9. 47.92	...	48.02	...	...	...	4. 9. 53.19 - 1.26	
	20	γ Tauri	DE	33.0	35.6	38.1	43.2	45.9	48.3	56.0	58.7	1.1	3.8	4. 13. 48.38	...	48.48	53.66	5.18	.....	.....	
	21	δ Tauri	DE	37.2	39.8	42.2	47.4	50.0	52.2	59.9	2.4	4.8	7.5	4. 29. 52.35	...	52.48	...	...	...	4. 29. 57.65 - 1.36	
	22	B. D. + 46° No. 910	DE	34.9	38.3	42.0	49.3	52.8	56.4	7.4	10.7	14.2	18.1	4. 38. 56.43	...	56.39	...	...	...	4. 39. 1.56 - 1.79	
	23	96 Tauri.....	DE	27.8	30.1	32.9	38.0	40.6	43.1	50.8	53.5	56.0	58.7	4. 43. 43.16	...	43.26	...	...	...	4. 43. 48.43 - 1.47	
	24	W. B. (2) IV. 1214-5	WB	33.9	36.5	39.1	...	...	49.9	...	0.3	2.9	5.8	4. 55. 49.78	...	49.87	...	...	...	4. 55. 55.18 - 1.59	
	25	Lalande 9820 ...	DE	53.6	56.1	58.7	3.6	6.0	8.5	16.0	18.5	20.9	23.4	5. 9. 8.54	...	8.69	...	...	...	5. 9. 13.86 - 1.55	
	26	ε Orionis.....	DE	37.2	39.9	42.2	47.2	49.8	52.2	59.9	2.2	4.7	7.2	5. 18. 52.26	...	52.46	...	...	...	5. 18. 57.62 - 1.55	
	27	Lalande 10913-4-6...	DE	6.6	9.3	11.9	17.2	20.0	22.5	30.4	33.1	35.9	38.4	5. 41. 22.54	...	22.63	...	...	...	5. 41. 27.79 - 1.86	
	28	α Orionis.....	DE	...	...	18.9	23.9	26.4	28.9	36.2	38.8	...	...	5. 49. 28.86	...	28.99	34.21	5.22	.....	.....	
	29	π Aurigæ	DE	48.9	52.3	56.0	3.0	6.6	10.1	21.1	24.4	28.0	31.6	5. 52. 10.21	...	10.17	...	...	...	5. 52. 15.33 - 2.47	
	30	1 Geminorum	DE	28.2	31.0	33.9	39.1	42.0	44.5	52.7	55.3	58.0	0.8	5. 57. 44.56	...	44.64	49.83	5.19	.....	.....	
	31	1 Geminorum...(E&E)	DE	39.4	55.5	...	...	...	0.1	16.3	...	...	...	5. 57. 44.43	...	44.51	49.83	5.32	.....	.....	
	32	δ Ursæ Min. S.P..	DE	25.1	33.4	48.9	54.2	8.1	14.2	23.8	34.0	49.8	55.9	6. 5. 21.49	...	24.22	29.26	5.04	.....	.....	
	33	48 Aurigæ.....R.	DE	32.6	35.4	38.1	44.1	46.9	...	...	...	...	...	6. 21. 49.77	...	50.07	...	...	...	6. 21. 55.23 - 2.25	
	34	53 Aurigæ.....	DE	27.5	30.1	33.0	38.6	41.5	44.3	52.9	55.6	58.6	1.3	6. 31. 44.35	...	44.39	...	...	...	6. 31. 49.55 - 2.27	
	35	Sirius.....	DE	14.8	17.4	20.0	25.0	27.5	30.1	38.0	40.5	43.0	45.8	6. 40. 30.22	...	30.45	...	...	...	6. 40. 35.61 - 1.80	
	36	Cephei 51	DE	40.2	55.6	11.1	25.2	41.1	56.2	11.6	26.8	42.8	57.9	6. 52. 16.05	...	12.95	18.60	5.65	.....	.....	
	37	39 Geminorum...	DE	3.3	6.0	8.9	14.2	17.1	19.9	28.1	30.9	33.6	36.3	6. 52. 19.84	...	19.90	...	...	...	6. 52. 25.06 - 2.30	
	38	ζ Geminorum	DE	37.5	40.1	42.7	48.0	50.7	53.5	1.3	4.0	6.5	9.2	6. 57. 53.36	...	53.45	58.62	5.17	.....	.....	
	39	ζ Geminorum...(E&E)	DE	49.0	5.0	...	...	...	8.2	24.2	...	...	...	6. 57. 53.19	...	53.28	58.62	5.34	.....	.....	
	40	51 Geminorum...	DE	...	...	...	...	...	...	28.5	31.1	33.6	36.2	7. 7. 20.77	...	20.87	26.12	5.25	.....	.....	
	41	δ Geminorum ...	WB	36.0	38.2	41.1	...	...	51.6	...	2.2	4.9	7.6	7. 13. 51.67	...	51.75	56.99	5.24	5.32	.....	
	42	1 Canis Minoris..	DE	53.1	55.9	58.4	3.3	5.9	8.2	16.0	18.5	20.9	23.5	7. 19. 8.38	...	8.50	...	...	...	7. 19. 13.66 - 2.15	
	43	λ Ursæ Min. S.P..	DE	52.0	1.1	7.6	14.5	19.6	24.9	30.2	35.1	43.8	49.7	7. 25. 8.93	...	17.74	23.55	5.81	.....	.....	
	44	Procyon.....	WB	33.3	35.9	38.1	43.1	45.6	48.1	55.5	58.0	0.6	3.1	7. 33. 48.14	...	48.29	53.65	5.36	5.32	.....	
	45	Groombridge 1119	DE	51.5	59.1	41.6	47.1	1.7	7.3	22.0	28.0	44.2	49.6	7. 55. 22.17	...	13.80	...	...	...	7. 55. 18.96 - 100.17	
	46	1 Cancri.....	DE	46.7	49.3	51.9	57.0	59.7	2.1	10.0	12.3	15.0	17.7	7. 51. 2.18	...	2.28	...	...	...	7. 51. 7.44 - 2.30	
	47	6 Cancri.....	DE	48.2	51.2	54.0	59.7	2.4	5.2	13.6	16.3	19.2	22.1	7. 57. 5.20	...	5.26	10.41	5.15	.....	.....	
	48	Radcliffe 2056 ...	DE	...	...	...	...	...	9.8	25.1	49.4	14.2	40.7	8. 1. 9.81	...	8.34	...	...	...	8. 1. 13.50 - 19.62	
	49	Bradley 1160.....	DE	...	...	...	58.1	6.4	14.9	40.0	...	...	...	8. 9. 14.88	...	14.48	...	...	...	8. 9. 19.64 - 7.06	
	50	χ Cancri.....	DE	25.4	28.1	30.9	36.5	39.4	42.1	50.5	53.3	56.0	59.1	8. 13. 42.14	...	42.20	...	...	...	8. 13. 47.36 - 2.60	
	51	Jupiter 1 L.	DE	54.1	...	59.4	...	...	9.9	...	20.4	...	25.8	8. 19. 9.92	...	11.60	...	...	...	8. 19. 16.76	
	52	Jupiter 2 L.	DE	57.3	...	2.6	...	...	13.1	...	23.6	...	28.9	8. 19. 13.10	...	...	...	...	...	8. 19. 16.76	
	53	Lalande 16971 ...	DE	20.1	22.7	25.4	30.6	33.4	36.0	...	...	...	...	8. 32. 35.95	...	36.04	...	...	...	8. 32. 41.20 - 2.45	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 7, 31, and 39, + 16^m.59 : + 16^m.59 : and + 16^m.58.

1. Very diffused. Observed over wire T with the transit-micrometer set to readings 34^m.746, 34^m.998, 35^m.063, 35^m.153, 35^m.318, 35^m.423, 36^m.064, 36^m.153, 36^m.214, 36^m.393.
2. Very faint; cloudy.
- 3, 12, 14. Cloudy.
4. Observed over wire T with the transit-micrometer set to readings 34^m.416, 34^m.620, 34^m.817, 35^m.373, 35^m.559, 35^m.758, 36^m.453, 36^m.669, 37^m.188, 37^m.353.
8. Very faint.
32. Observed over wire P with the transit-micrometer set to readings 36^m.197, 35^m.994, 35^m.651, 35^m.500, 35^m.184, 35^m.026, 34^m.703, 34^m.555, 34^m.155, 34^m.043.
36. Observed over wire O with the transit-micrometer set to readings 35^m.000, 35^m.300, 35^m.600, 35^m.900, 36^m.200, 36^m.500, 36^m.800, 37^m.100, 37^m.400, 37^m.700.
43. Observed over wire R with the transit-micrometer set to readings 35^m.000, 35^m.923, 35^m.895, 35^m.853, 35^m.799, 35^m.773, 35^m.724, 35^m.692, 35^m.645, 35^m.597.
45. Observed over wire Q with the transit-micrometer set to readings 34^m.922, 34^m.968, 35^m.291, 35^m.335, 35^m.431, 35^m.473, 35^m.590, 35^m.624, 35^m.760, 35^m.797.

MONTH and DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation.	Level.						
															(Level).	[Azimuth].						
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
s	s	s	s	s	s	s	s	s	s	h	m	s	"	s	s	s	s	h	m	s	s	
Feb. 6	1	Lalande 16988 ...	DE	46.0	48.5	51.1	56.3	59.1	1.8	9.7	12.1	14.8	17.6	8. 33. 1.71	+ 1.07	1.80			5.18	8. 33. 6.96	- 2.45	
	2	Piazzi VIII. 137..	DE	...	...	59.6	12.0	18.6	24.8	44.0	50.4	...	...	8. 39. 24.93	(- 1.75)	24.67			[- 0.07]	8. 39. 29.82	- 5.68	
	3	B.D.+17° No. 1954	DE	23.3	26.0	28.4	33.6	36.2	38.9	46.7	49.2	51.8	54.3	8. 44. 38.85	[+ 3.27]	38.95				8. 44. 44.10	- 2.40	
Feb. 7	4	γ Herculis.....	R	59.2	2.0	4.5	9.7	12.2	15.0	22.9	25.5	28.0	30.9	16. 17. 15.00	(- 1.41)	15.17	20.27	5.10	5.08	16. 17. 20.22	- 0.40	
	5	Antares	R	40.2	42.9	45.6	51.0	54.0	56.8	4.9	7.6	10.4	13.3	16. 22. 56.68	[+ 4.86]	57.09	2.17	5.08	[- 0.04]	16. 23. 2.14	- 0.43	
	6	ζ Ophiuchi	R	...	...	...	...	...	...	28.4	31.0	33.3	36.0	16. 31. 20.88		21.19	26.25	5.06		16. 31. 26.24	- 0.40	
	7	ζ Herculis	H	59.8	2.5	5.4	11.1	14.1	17.0	26.0	28.7	31.5	34.6	16. 37. 17.08		17.18	22.06	4.88	4.91	.....		
	8	α Ophiuchi (E&E)	R	59.1	14.3	...	...	...	15.0	30.2	...	...	...	17. 29. 44.66		44.86	6.35	2.149	Hardy at 58	.....		
	9	γ Draconis (E&E)	R	37.5	0.9	2.5	...	12.8	36.4	0.2	...	...	...	17. 53. 48.80		48.76			[- 0.12]	17. 54. 10.25	+ 0.99	
Feb. 8	10	⊙ 1 L.	R	22.1	24.5	27.1	32.1	34.9	37.5	45.2	47.5	50.0	52.6	21. 25. 37.36					Sid. Stand. 5.08	21. 26. 50.21		
	11	⊙ 2 L.	R	...	...	42.0	47.1	49.8	52.4	59.9	2.5	...	...	21. 27. 52.29		45.17			[- 0.04]			
	12	η Tauri	R	57.9	...	3.0	8.3	11.1	...	...	24.6	27.2	30.0	3. 41. 13.84		13.99	19.08	5.09	5.04	3. 41. 19.02	- 1.04	
	13	γ ¹ Eridani	R	51.1	53.6	56.1	1.3	3.9	6.4	14.0	16.4	18.9	21.6	3. 53. 6.34		6.67	11.65	4.98		3. 53. 11.70	- 1.10	
	14	α ² Eridani	R	...	...	...	...	...	...	...	34.9	37.4	40.0	4. 10. 24.97		25.27				4. 10. 30.30	- 1.17	
	15	ε Tauri	R	...	15.6	18.2	23.5	26.2	28.8	36.5	39.2	41.8	...	4. 22. 28.75		28.92	33.87	4.95		4. 22. 33.95	- 1.32	
Feb. 9	16	⊙ 1 L.	DE	...	...	...	...	...	36.1	44.0	46.4	49.0	51.8	21. 29. 36.24	(- 2.37)	36.55				21. 30. 48.86		
Feb. 10	17	⊙ 1 L.	H	18.8	21.4	24.0	29.1	31.7	34.2	42.0	44.5	46.9	49.7	21. 33. 34.24	+ 0.81							
	18	⊙ 2 L.	H	33.4	36.0	38.3	43.5	46.1	48.6	56.2	58.8	1.4	4.1	21. 35. 48.65	(- 2.07)	41.85			4.82	21. 34. 46.70		
	19	δ Orionis	H	23.0	25.5	28.1	33.0	35.5	38.0	45.5	47.9	50.3	52.9	5. 26. 37.98	[+ 6.45]	38.28	43.07	4.79	[+ 0.03]	.....		
	20	ε Orionis	H	37.8	40.1	42.5	47.5	50.0	52.5	0.1	2.4	4.7	7.4	5. 30. 52.51		52.81	57.71	4.90	4.85	.....		
	21	δ Leporis	H	31.3	34.0	36.5	41.8	44.3	47.1	55.2	57.9	0.2	3.1	5. 46. 47.15		47.59				5. 46. 52.45	- 1.59	
	22	Groombridge 1044	H	0.2	4.5	8.9	17.4	21.7	25.9	38.5	42.7	46.9	51.4	5. 51. 25.83		25.64				5. 51. 30.50	- 2.76	
	23	Carrington 844 ...	H	...	...	48.9	24.2	42.3	0.1	53.6	10.7	...	...	5. 58. 0.04		58.02				5. 58. 2.88	- 9.51	
	24	W. B. V. 1586 ...	H	13.8	16.2	18.8	23.9	26.2	28.7	36.2	38.6	41.1	43.8	6. 3. 28.74		29.02				6. 3. 33.88	- 1.75	
	25	W. B. V. 1589 ...	H	15.7	18.1	20.6	25.6	28.0	30.5	38.0	40.4	42.9	45.5	6. 3. 30.54		30.82				6. 3. 35.68	- 1.75	
	26	δ Ursæ Min. S.P...	H	6.0	17.9	22.5	27.7	40.1	48.0	56.2	2.2	12.1	19.3	6. 5. 20.25		25.92	30.13	4.21		.....		
	27	μ Geminorum	H	...	23.8	26.2	31.8	34.3	37.1	45.1	47.8	50.2	...	6. 16. 37.06		37.21	42.12	4.91		.....		
	28	μ Geminorum. (E&E)	H	33.4	49.5	5.4	...	37.7	53.6	9.8	...	...	...	6. 16. 36.67		36.82	42.12	5.30		.....		
	29	B.D.+63° No. 647	H	24.9	30.5	36.0	47.1	52.9	58.7	15.6	21.1	26.5	32.5	6. 18. 58.61		58.21				6. 19. 3.07	- 3.85	
	30	Groombridge 1177	H	56.5	0.6	5.1	13.9	18.2	22.6	35.9	40.1	44.2	49.0	6. 26. 22.63		22.43				6. 26. 27.29	- 3.19	
	31	Groombridge 1193	H	28.5	33.0	37.6	46.5	51.1	55.8	9.4	13.9	18.1	22.9	6. 31. 55.70		55.46				6. 32. 0.32	- 3.35	
	32	Sirius.....	H	14.9	17.6	20.1	25.2	27.9	30.4	38.2	40.7	43.3	46.0	6. 40. 30.44		30.86				6. 40. 35.72	- 1.77	
	33	Lacaille 2470 ...	H	36.1	38.9	41.9	47.5	50.2	53.1	1.6	4.2	7.0	9.9	6. 45. 53.05		53.55				6. 45. 58.41	- 1.77	
	34	Cephei 51	H	5.8	17.6	26.0	35.4	42.0	40.5	51.5	0.6	8.4	16.1	6. 52. 20.03		13.67	17.92	4.25		.....		
	35	Lalande F. (2) 56.	H	...	...	...	...	24.2	40.2	28.0	44.0	59.6	16.0	7. 1. 40.36		38.57				7. 1. 43.43	- 11.04	
	36	Groombridge 2816 S.P.	H	...	25.4	29.4	33.7	...	50.1	54.2	2.6	6.6	...	7. 15. 45.97		46.63				19. 15. 51.49	+ 1.71	
	37	Groombridge 2817 S.P.	H	...	...	36.0	39.5	...	56.2	0.6	9.0	...	...	7. 15. 52.24		52.90				19. 15. 57.76	+ 1.71	
	38	Piazzi XIX. 156 S.P.	H	18.1	22.9	27.5	32.1	46.1	50.9	55.6	4.8	9.4	14.0	7. 23. 46.12		46.87				19. 23. 51.73	+ 2.14	
	39	λ Ursæ Min. S.P...	H	5.6	15.5	22.9	29.6	40.1	49.9	56.5	16.4	32.5	39.7	7. 25. 1.87		20.12	25.02	4.90		.....		
	40	Castor.....	H	37.9	40.9	43.8	49.7	52.6	55.6	4.2	7.1	10.0	13.0	7. 27. 55.49		55.56	0.44	4.88		.....		
	41	ο Puppis.....	H	26.0	28.8	31.4	36.9	39.7	42.5	50.6	53.4	56.0	58.9	7. 43. 42.43		42.92				7. 43. 47.78	- 1.91	
	42	14 Canis Minoris..	H	39.1	41.6	44.1	49.0	51.6	54.1	1.6	4.0	6.4	8.9	7. 52. 54.05		54.33				7. 52. 59.19	- 2.11	
	43	Groombridge 1119	H	2.8	10.2	16.9	24.8	32.0	40.1	48.9	57.0	6.7	13.9	7. 55. 29.44		12.18				7. 55. 17.04	- 99.38	
	44	Groombridge 1400	H	51.9	59.6	...	20.9	28.1	35.5	57.2	...	11.4	19.1	7. 59. 35.49		34.86				7. 59. 39.72	- 6.12	
	45	ρ Argus	H	...	50.0	52.6	58.0	0.8	...	11.7	...	...	...	8. 3. 3.50		3.97	8.79	4.82		.....		
	46	η Serpentis	B	35.5	37.9	40.3	45.3	47.8	50.3	57.8	0.1	2.5	5.1	18. 15. 50.27	[+ 5.29]	50.53	55.62	5.09	5.15	18. 15. 55.68	+ 0.01	
	47	χ Draconis.....	B	58.0	6.1	14.4	31.1	39.5	47.9	12.8	20.8	29.0	38.0	18. 23. 47.80		47.11			[0.00]	18. 23. 52.26	+ 3.64	
	48	α Lyræ	B	0.1	3.2	6.4	12.7	16.0	19.1	28.6	31.6	34.8	38.1	18. 33. 19.07		19.06	24.29	5.23		18. 33. 24.21	+ 0.72	
	49	Venus 2 L.	B	4.9	7.7	10.2	15.6	18.3	21.2	29.1	31.9	34.4	37.2	19. 5. 21.06		21.44				19. 5. 26.05		

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 28, + 15^m 10.
 Corrections for passage of Semidiameter, Nos. 16 and 49, + 67^s 31 and - 0^s 54.

2, 3, 15, 45. Cloudy.

6. Faint; cloudy.

26. Observed over wire O with the transit-micrometer set to readings 37^r 629, 37^r 352, 37^r 251, 37^r 104, 36^r 810, 36^r 624, 36^r 440, 36^r 290, 36^r 039, 35^r 880.
 34. Observed over wire T with the transit-micrometer set to readings 34^r 139, 34^r 371, 34^r 533, 34^r 730, 34^r 850, 36^r 000, 36^r 225, 36^r 390, 36^r 552, 36^r 710.
 39. Observed over wire Q with the transit-micrometer set to readings 36^r 109, 36^r 032, 35^r 982, 35^r 932, 35^r 861, 35^r 792, 35^r 731, 35^r 591, 35^r 490, 35^r 429.
 43. Observed over wire R with the transit-micrometer set to readings 35^r 194, 35^r 252, 35^r 282, 35^r 357, 35^r 404, 35^r 465, 35^r 533, 35^r 599, 35^r 675, 35^r 710.
 46, 49. Very faint; hazy.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898G020MM.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	s	s	h m s	s					
Feb. 11	1	α Andromedæ . .	B	...	...	43.6	49.2	52.1	54.9	3.4	6.1	...	...	0. 2. 54.89	+ 0.81	54.96	0.09	5.13	5.15	0. 3. 0.11	+ 0.53	
	2	β Cassiopeiæ	B	...	...	...	...	26.1	30.7	45.2	49.7	54.3	59.3	0. 3. 30.80	(- 2.07)	30.55			[0.00]	0. 3. 35.70	+ 1.89	
	3	κ Cassiopeiæ	B	26.4	31.7	37.1	47.6	53.1	58.5	14.3	19.7	24.9	30.6	0. 26. 58.41	[+ 5.29]	58.09				0. 27. 3.24	+ 2.01	
	4	ζ Cassiopeiæ	B	39.4	43.5	47.8	56.0	0.2	4.4	16.8	20.9	24.9	29.2	0. 31. 4.33		4.17				0. 31. 9.32	+ 1.25	
	5	δ Andromedæ ...	B	...	...	...	...	34.5	37.4	40.1	49.0	...	...	0. 33. 40.26		40.32				0. 33. 45.47	+ 0.41	
	6	α Cassiopeiæ	B	...	...	7.8	12.2	21.0	25.5	30.0	43.3	47.6	52.0	0. 34. 29.96		29.76				0. 34. 34.91	+ 1.38	
	7	η Cassiopeiæ	B	14.7	19.4	24.0	33.1	37.9	42.3	56.1	0.5	5.1	9.7	0. 42. 42.30		42.08				0. 42. 47.23	+ 1.37	
	8	γ Cassiopeiæ	B	49.7	54.5	59.5	9.4	14.5	19.4	34.2	39.4	44.1	49.4	0. 50. 19.43		19.15				0. 50. 24.30	+ 1.50	
	9	ϵ Piscium	B	12.4	14.9	17.5	22.5	24.9	27.5	35.0	37.4	39.9	42.5	0. 57. 27.46		27.66	32.71	5.05		0. 57. 32.81	- 0.06	
	10	β Andromedæ ...	B	30.8	33.9	36.9	42.9	46.0	49.0	58.0	1.0	4.0	7.1	1. 3. 48.97		49.00	54.12	5.12		1. 3. 54.15	+ 0.31	
	11	ϵ Cassiopeiæ	B	16.2	21.6	27.1	38.0	43.5	48.9	5.4	10.9	16.2	22.0	1. 46. 49.00		48.66				1. 46. 53.81	+ 0.91	
	12	β Arietis	B	32.6	35.1	38.0	43.1	45.9	48.6	56.4	59.1	1.7	4.3	1. 48. 48.49		48.61	53.78	5.17		1. 48. 53.76	- 0.22	
	13	γ^1 Andromedæ ...	B	...	...	9.1	12.3	19.0	22.3	25.6	35.7	38.9	42.2	1. 57. 25.66		25.63				1. 57. 30.78	+ 0.01	
	14	γ^2 Andromedæ ...	B	...	...	9.9	13.2	19.9	23.3	26.5	36.5	39.9	43.1	1. 57. 26.56		26.53				1. 57. 31.68	+ 0.01	
	15	α Arietis	B	...	...	0.1	2.8	8.1	10.8	...	21.6	24.2	26.9	2. 1. 13.52		13.63	18.82	5.19		2. 1. 18.78	- 0.28	
	16	β Trianguli	B	58.0	1.1	4.1	10.1	13.1	16.1	25.0	28.1	31.0	34.2	2. 3. 16.09		16.12				2. 3. 21.27	- 0.17	
	17	α Ceti	B	...	...	36.0	40.8	43.5	46.0	53.4	55.9	...	...	2. 56. 45.94		46.16	51.24	5.08		2. 56. 51.31	- 0.74	
	18	γ^3 Eridani	B	...	...	...	...	...	43.6	52.0	54.3	56.9	59.9	2. 57. 43.61		44.00				2. 57. 49.15	- 0.80	
	19	η Ursæ Min. S.P.	B	...	...	...	...	14.1	22.0	30.2	46.3	54.2	2.3	3. 0. 13.93		14.95				3. 0. 20.10	- 1.64	
	20	κ Persei	B	...	...	7.0	10.4	17.3	20.9	24.3	34.9	38.1	41.6	3. 2. 24.33		24.28				3. 2. 29.43	- 0.62	
	21	55 Arietis	B	...	...	...	...	...	...	30.8	33.6	50.5	7.5	3. 3. 16.78		16.84				3. 3. 21.99	- 0.71	
	22	11 Tauri	B	...	...	...	...	23.2	26.3	29.2	37.6	40.1	42.8	3. 34. 29.17		29.26	34.46	5.20		3. 34. 34.41	- 0.95	
	23	W. B. (2) III. 713	B	7.9	10.5	13.4	18.5	21.5	24.2	32.6	35.2	38.0	40.6	3. 35. 24.25		24.34				3. 35. 29.49	- 0.06	
	24	21 Tauri	B	22.0	24.8	27.6	...	...	38.4	...	49.2	51.9	54.7	3. 39. 38.38		38.48				3. 39. 43.63	- 0.99	
	25	22 Tauri	B	...	...	33.4	36.0	...	...	...	57.8	0.2	...	3. 39. 46.88		46.98				3. 39. 52.13	- 1.00	
	26	B. D. + 24° No. 566	B	51.5	54.0	56.9	2.3	4.9	7.7	15.9	...	...	...	3. 41. 7.71		7.81				3. 41. 12.96	- 1.01	
	27	B. D. + 24° No. 567	B	...	...	...	...	...	...	10.2	18.3	20.8	23.7	3. 41. 10.16		10.26				3. 41. 15.41	- 1.01	
	28	Piazzi III. 186 ...	B	2.8	6.4	10.1	17.0	20.8	24.8	35.9	39.4	42.9	46.8	3. 48. 24.70		24.61				3. 48. 29.76	- 1.13	
	29	Groomb. 2315 S.P.	B	42.2	53.4	3.8	14.2	25.4	...	...	...	...	...	3. 55. 3.80		6.31				5. 55. 11.46	+ 1.07	
	30	Oeltz. Arg. (N.) 15854 S.P.	B	...	...	58.0	8.1	17.5	48.6	58.9	9.0	29.4	40.1	3. 56. 48.63		49.91				5. 56. 55.06	+ 0.13	
	31	17 Ursæ Min. S.P.	B	21.9	32.4	42.1	52.4	22.8	32.3	42.5	1.1	11.3	20.9	3. 57. 22.93		24.21				5. 57. 29.36	+ 0.15	
	32	Groomb. 2319 S.P.	B	...	...	...	...	...	4.9	12.8	20.0	34.8	42.1	4. 5. 5.14		6.09				6. 5. 11.24	+ 0.06	
	33	Groombridge 779	B	...	...	...	...	...	56.4	41.9	56.7	11.5	27.2	4. 8. 56.50		55.05				4. 9. 0.20	- 2.99	
	34	Groombridge 785	B	...	...	...	...	...	17.6	4.1	19.3	34.1	50.0	4. 11. 18.11		16.64				4. 11. 21.79	- 3.10	
	35	Groomb. 2337 S.P.	B	...	...	...	...	42.4	8.7	17.5	26.3	...	...	4. 16. 8.70		9.82				6. 16. 14.97	+ 0.57	
	36	Groombridge 825	B	...	...	...	...	...	...	13.8	20.6	27.9	35.2	4. 19. 51.73		51.17				4. 19. 56.32	- 2.14	
	37	Piazzi IV. 99	B	...	...	19.6	22.2	27.3	29.9	32.3	...	...	...	4. 24. 32.44		32.59				4. 24. 37.74	- 1.29	
	38	Piazzi IV. 102 ...	B	...	...	...	...	35.4	40.5	43.1	45.6	53.4	56.0	4. 24. 45.68		45.83				4. 24. 50.98	- 1.29	
	39	Oeltz. Arg. (N.) 4928	B	...	...	51.4	56.4	6.3	11.6	16.7	...	...	...	4. 28. 16.72		16.43				4. 28. 21.58	- 1.89	
	40	Oeltz. Arg. (N.) 4948	B	46.1	51.2	56.2	6.3	11.6	16.6	32.0	36.9	41.9	47.4	4. 29. 16.64		16.35				4. 29. 21.50	- 1.91	
	41	Piazzi IV. 242 (E&E)	B	17.5	...	27.5	...	...	47.5	...	7.4	...	17.3	4. 53. 47.44		47.16				4. 54. 6.97	- 2.27	
	42	β Camelopardi (E&E)	B	22.6	...	32.6	...	...	52.6	...	12.5	...	22.5	4. 53. 52.56		52.28				4. 54. 12.09	- 2.27	
	43	β Eridani... (E&E)	B	40.6	55.6	10.3	25.3	40.2	55.0	9.9	...	...	...	5. 2. 25.27		25.53				5. 2. 45.34	- 1.42	
	44	Rigel (E&E)	B	28.6	43.5	58.6	13.5	28.4	43.2	58.4	...	...	...	5. 9. 13.46		13.75	33.77	20.02		.....	.....	
	45	Groomb. 948 ... (E&E)	B	...	...	14.0	32.4	41.8	50.9	18.5	27.7	...	...	5. 13. 50.92		50.13				5. 14. 9.94	- 4.10	
	46	β Tauri (E&E)	B	...	...	50.8	7.9	24.8	41.5	58.2	...	...	...	5. 19. 24.64		24.71	44.77	20.06		.....	.....	
	47	Groomb. 967 ... (E&E)	B	...	...	...	...	55.0	3.1	7.3	11.4	23.9	28.0	5. 21. 11.47		11.31				5. 21. 31.11	- 2.35	
	48	Groomb. 966 ... (E&E)	B	...	...	...	...	56.1	15.2	24.6	34.5	3.1	12.8	5. 25. 34.42		33.60				5. 25. 53.40	- 4.55	
	49	19 Camelopardi (E&E)	B	...	...	...	...	48.9	54.6	11.5	17.1	22.9	28.6	5. 26. 54.59		54.22				5. 27. 14.02	- 3.04	
	50	21 Camelopardi (E&E)	B	...	...	...	...	...	33.7	49.6	54.7	59.9	5.2	5. 30. 33.76		33.45				5. 30. 53.25	- 2.93	
	51	24 Camelopardi (E&E)	B	28.2	...	37.4	...	...	...	...	13.1	...	22.5	5. 33. 55.30		55.09				5. 34. 14.89	- 2.64	
	52	Lalande 10913-4-6...	B	6.5	9.3	12.0	17.2	19.9	22.5	30.4	32.9	35.6	38.4	5. 41. 22.48		22.60				5. 41. 27.75	- 1.81	
	53	Piazzi V. 222	B	50.5	53.2	55.9	1.1	3.7	6.3	14.3	16.9	19.6	22.2	5. 42. 6.38		6.50				5. 42. 11.65	- 1.81	
	54	W. B. (2) V. 1321	B	52.2	55.0	57.6	2.8	5.5	8.1	16.1	18.7	21.4	24.1	5. 42. 8.16		8.28				5. 42. 13.43	- 1.81	

21. Observed over wires W, X, Y and Z.
39. Very faint.

29. Observed over wire T with the transit-micrometer set to readings $36^{\circ}600$, $36^{\circ}100$, $35^{\circ}600$, $35^{\circ}100$, $34^{\circ}600$.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently slow.	Adopted Clock Slow at Sidereal and (Leaving Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
				h m s	h m s	h m s	h m s	h m s	h m s	h m s	h m s	h m s	h m s									
1896	Feb. 11	1	α Orionis	B	13.9	16.3	18.8	23.8	26.2	28.7	36.2	38.5	41.1	43.9	5.49.28.75	+ 0.81	28.95	34.17	5.22	Sid. Stand. 5.15 [0.00]	5.49.34.10	- 1.72
		2	α Orionis... (E&E)	B	28.9	44.1	59.0	14.0	29.0	43.9	58.9	...	...	...	5.49.13.97	(- 2.07)	14.17	34.17	20.00	Hardy 1891 (-0.48)		
		3	π Aurigæ	B	48.8	52.4	56.0	3.0	6.6	10.3	20.9	24.4	28.0	31.7	5.52.10.23	[+ 5.29]	10.16	...	...	Sid. Stand. 5.15 [0.00]	5.52.15.31	- 2.40
		4	35 Camelopardi ..	B	...	...	...	4.0	8.0	12.0	24.0	...	...	...	5.56.12.01	...	11.88	...	...	5.56.17.03	- 2.65	
		5	* N.P.D. 38° 26'.	B	...	...	...	4.9	8.9	12.9	24.9	...	...	...	5.56.12.91	...	12.78	...	...	5.56.17.93	- 2.65	
		6	37 Camelopardi ..	B	18.0	22.7	27.6	37.2	42.1	46.9	1.4	6.0	10.5	15.6	6.0.46.82	...	46.56	...	...	6.0.51.71	- 3.13	
		7	W. B. V. 1586	B	13.6	16.2	18.6	23.6	26.1	28.5	36.0	38.4	40.8	43.4	6.3.28.53	...	28.75	...	...	6.3.33.90	- 1.74	
		8	W. B. V. 1589	B	15.4	18.0	20.2	25.2	27.9	30.3	37.9	40.2	42.5	45.2	6.3.30.32	...	30.54	...	...	6.3.35.69	- 1.74	
		9	δ Ursæ Min. S.P.	B	18.0	21.9	26.0	29.8	33.3	36.2	39.1	42.1	45.5	49.8	6.5.20.26	...	25.06	30.36	5.30	18.5.30.21	+ 20.29	
		10	Groombridge 1109	B	...	...	...	...	...	...	42.4	46.9	51.2	56.1	6.7.28.87	...	28.66	...	...	6.7.33.81	- 3.06	
		11	Groombridge 1114	B	...	...	16.9	37.2	47.9	58.1	28.9	39.1	...	...	6.12.58.06	...	57.14	...	...	6.13.2.29	- 6.20	
		12	Groombridge 1126	B	...	...	18.2	42.1	54.8	6.7	43.2	55.3	...	...	6.17.6.77	...	5.65	...	...	6.17.10.80	- 7.30	
		13	B. D. + 63° No. 647	B	24.7	30.2	35.8	47.1	52.8	58.2	15.3	20.8	26.3	32.2	6.18.58.37	...	58.01	...	...	6.19.3.16	- 3.83	
		14	Groombridge 1161	B	...	...	...	...	...	...	48.1	52.1	56.1	0.2	6.20.36.01	...	35.86	...	...	6.20.41.01	- 2.93	
		15	Lalande 12358 ...	B	24.1	26.9	29.5	34.7	37.4	40.0	48.0	50.4	52.9	55.8	6.22.39.98	...	40.10	...	...	6.22.45.25	- 2.03	
		16	Piazzi VI. 157 ...	B	...	...	35.2	37.9	42.9	45.5	48.1	56.0	58.3	1.0	6.29.48.13	...	48.28	...	...	6.29.53.43	- 2.00	
		17	γ Geminorum	B	23.4	26.0	28.5	33.9	36.3	39.0	46.6	49.2	51.9	54.5	6.31.38.94	...	39.09	44.20	5.11	...	6.31.44.24	- 2.00
		18	γ Geminorum (E&E)	B	37.5	53.0	8.7	24.1	39.8	54.9	10.4	...	...	...	6.31.24.06	...	24.21	44.20	19.99	Hardy 1891 (-0.48)		
		19	W. B. VI. 990	B	12.6	15.0	17.5	22.6	25.3	27.8	35.4	38.0	40.4	43.1	6.34.27.78	...	28.11	...	...	Sid. Stand. 5.15 [0.00]	6.34.33.26	- 1.76
		20	Piazzi VI. 203	B	26.1	28.5	31.1	36.0	38.5	40.9	48.4	50.9	53.4	56.0	6.35.40.99	...	41.22	...	...	6.35.46.37	- 1.86	
		21	Groombridge 1210	B	...	...	...	...	...	...	54.8	0.1	5.4	11.2	6.37.38.26	...	37.92	...	...	6.37.43.07	- 3.97	
		22	Sirius	B	...	17.2	19.9	24.9	27.7	30.2	37.9	40.3	42.9	...	6.40.30.15	...	30.50	...	...	6.40.35.65	- 1.76	
		23	Groombridge 1221	B	...	...	41.2	50.5	55.3	59.9	13.9	18.2	...	...	6.41.59.85	...	59.62	...	...	6.42.4.77	- 3.50	
		24	λ Aurigæ	B	...	...	8.9	15.5	18.9	22.2	32.2	35.6	...	...	6.43.22.23	...	22.19	...	...	6.43.27.34	- 2.65	
		25	Cephei 51	B	36.7	42.1	46.2	49.9	54.0	0.6	4.1	8.5	14.0	17.9	6.52.19.00	...	13.56	17.74	4.18	6.52.18.71	- 32.41	
		26	Lacaille 2570	S	...	...	...	40.1	43.1	45.9	54.0	56.6	59.4	2.1	6.56.45.77	...	46.17	...	5.00	6.56.51.17	- 1.80	
		27	ζ Geminorum ...	S	37.6	40.1	42.8	48.1	50.9	53.4	1.4	4.0	6.5	9.4	6.57.53.43	...	53.55	58.60	5.05			
		28	γ Canis Majoris ..	S	44.1	46.8	49.3	54.4	57.0	59.7	7.4	10.0	12.4	15.2	6.58.59.64	...	59.97	4.95	4.98			
		29	Piazzi VI. 285 ...	S	...	...	39.4	12.1	29.5	46.2	35.9	52.5	...	...	7.5.46.00	...	44.37	...	...	7.5.49.37	- 11.56	
		30	Piazzi VII. 29 ...	S	34.9	37.4	40.0	44.8	47.4	50.0	57.3	59.9	2.1	4.7	7.8.49.86	...	50.08	...	...	7.8.55.08	- 2.00	
		31	δ Geminorum ...	S	36.0	38.4	41.1	46.3	49.2	52.0	0.0	2.6	5.2	8.1	7.13.51.90	...	52.01	56.98	4.97			
		32	λ Ursæ Min. S.P.	S	24.9	8.7	36.0	18.4	32.4	59.5	29.4	51.8	9.1	21.8	7.25.2.51	...	18.00	...	...	19.25.23.00	+ 94.37	
		33	Procyon	HA	33.2	35.9	38.3	43.2	45.9	48.2	55.7	58.1	0.5	3.1	7.33.48.22	...	48.42	53.64	5.22	5.23		
		34	Pollux	HA	37.1	40.1	43.2	48.7	51.8	54.4	2.9	5.7	8.2	11.3	7.38.54.35	...	54.42	59.65	5.23			
		35	Pollux..... (E&E)	HA	48.9	5.8	...	...	...	13.0	30.0	...	...	...	7.38.54.24	...	54.31	59.65	5.34			
		36	Bradley 1130	B	...	22.2	24.9	30.3	33.3	...	44.0	46.7	49.4	...	7.44.35.85	...	36.24	...	5.15	7.44.41.39	- 1.91	
		37	ξ Argûs	B	35.4	38.0	40.6	...	...	51.5	...	2.1	4.9	8.0	7.44.51.51	...	51.90	57.08	5.18	7.44.57.05	- 1.91	
		38	Groombridge 1359	B	53.5	6.1	18.7	31.2	43.4	...	...	...	...	...	7.52.18.58	...	16.00	...	...	7.52.21.15	- 19.08	
		39	3 Cancri	B	...	...	36.2	41.5	44.1	46.8	54.5	57.1	...	...	7.54.46.71	...	46.86	...	...	7.54.52.01	- 2.34	
		40	Groombridge 1399	B	...	...	0.2	10.0	14.9	19.9	34.4	39.4	...	...	7.57.19.82	...	19.56	...	...	7.57.24.71	- 4.30	
		41	Groombridge 1400	B	51.5	58.8	5.9	20.3	27.7	34.9	...	...	...	...	7.59.34.93	...	34.37	...	...	7.59.39.52	- 6.11	
		42	Piazzi VII. 282 ...	B	...	...	...	...	...	49.6	7.8	13.8	19.7	26.0	7.59.49.54	...	49.12	...	...	7.59.54.27	- 5.23	
		43	Groombridge 1391	B	17.1	27.1	36.8	46.1	56.4	...	...	...	...	...	8.4.36.72	...	34.76	...	...	8.4.39.91	- 15.41	
		44	Piazzi VIII. 6 ...	B	...	...	1.9	6.9	9.7	12.3	20.1	22.7	...	...	8.6.12.28	...	12.42	...	...	8.6.17.57	- 2.37	
		45	W.B. (2) VIII. 173	B	51.9	54.5	57.1	2.4	5.1	7.9	15.8	18.2	20.9	23.9	8.11.7.78	...	7.90	...	...	8.11.13.05	- 2.46	
		46	W.B. (2) VIII. 192	B	28.9	31.3	34.1	39.4	42.1	44.9	52.8	55.4	58.0	0.9	8.11.44.79	...	44.91	...	...	8.11.50.06	- 2.46	
		47	Jupiter 1 L.	B	23.6	...	28.9	...	...	39.4	...	50.0	...	55.3	8.16.39.44	...	...	...	...	8.16.46.35	...	...
		48	Jupiter 2 L.	B	26.9	...	32.1	...	...	42.7	...	53.3	...	58.6	8.16.42.72	...	41.20	...	...	...	...	...
		49	ϕ^2 Cancri (1st Star) ..	B	10.2	13.1	...	...	...	27.1	...	40.9	43.8	...	8.20.27.03	...	27.11	...	...	8.20.32.26	- 2.61	
		50	ϕ^2 Cancri (2nd Star) ..	B	...	...	16.0	21.7	24.5	...	35.8	38.4	...	...	8.20.27.29	...	27.37	...	...	8.20.32.52	- 2.61	
		51	Piazzi VIII. 78 ...	B	19.4	23.4	27.5	35.8	40.0	44.1	56.5	0.6	4.8	9.0	8.24.44.13	...	43.96	...	...	8.24.49.11	- 3.85	
		52	Groombridge 3207 S.P.	B	...	...	...	...	...	...	33.9	42.3	46.5	50.5	8.27.25.25	...	25.80	...	...	20.27.30.95	+ 2.16	
		53	W.B. (2) VIII. 708	B	...	...	25.0	30.1	32.9	35.5	43.3	46.0	...	...	8.31.35.48	...	35.60	...	...	8.31.40.75	- 2.47	
		54	Piazzi VIII. 118.,	B	...	...	54.4	59.7	2.2	5.0	12.8	15.5	...	...	8.33.4.94	...	5.06	...	...	8.33.10.21	- 2.47	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 35, + 14^s.80.

9. Observed over wire T with the transit-micrometer set to readings 35^s.663, 35^s.570, 35^s.485, 35^s.379, 35^s.280, 35^s.200, 35^s.130, 35^s.071, 34^s.988, 34^s.905.
 25. Observed over wire Q with the transit-micrometer set to readings 35^s.234, 35^s.335, 35^s.416, 35^s.493, 35^s.560, 35^s.724, 35^s.775, 35^s.868, 35^s.965, 36^s.050.
 32. Observed over wire T with the transit-micrometer set to readings 36^s.740, 36^s.422, 36^s.229, 35^s.908, 35^s.818, 35^s.624, 35^s.410, 35^s.237, 35^s.123, 35^s.031.
 43. Observed over wire T with the transit-micrometer set to readings 34^s.600, 35^s.100, 35^s.600, 36^s.100, 36^s.600.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GOA...

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m	s		h	m	s
s	s	s	s	s	s	s	s	s	s	h	m	s	h	m	s	s											
Feb. 11	1	38 Cancri	B	...	...	30.7	36.0	38.7	41.3	49.3	51.9	...	...	8. 33. 41.33	+ 0.81	41.45			5.15	8. 33. 46.60	- 2.47						
	2	42 Cancri	B	26.4	29.1	31.7	36.9	39.5	42.1	50.1	52.7	55.3	58.0	8. 34. 42.19	(- 2.07)	42.31			[0.00]	8. 34. 47.46	- 2.47						
	3	Piazzi VIII. 137..	B	...	...	...	12.2	18.8	25.2	44.1	...	...	...	8. 39. 25.10	[+ 5.29]	24.65				8. 38. 29.80	- 5.70						
	4	Groombridge 1470	B	...	...	...	...	10.8	18.0	40.6	48.0	55.3	3.1	8. 41. 18.15		17.56				8. 41. 22.71	- 6.60						
	5	B.D. + 17° No. 1954	B	...	...	...	...	...	...	46.7	49.2	51.8	54.4	8. 44. 38.88		39.03				8. 44. 44.18	- 2.43						
	6	π ¹ Cancri	B	17.9	20.2	22.9	28.0	30.7	33.3	40.9	43.3	46.0	48.5	9. 6. 33.18		33.33				9. 6. 38.48	- 2.40						
	7	π ² Cancri	B	10.9	13.5	16.1	21.2	24.0	26.4	34.1	36.6	39.1	42.0	9. 9. 26.40		26.55				9. 9. 31.70	- 2.41						
	8	83 Cancri	B	52.1	54.7	57.3	2.4	5.1	7.8	15.5	18.1	20.6	23.4	9. 13. 7.71		7.85	13.07	5.22		9. 13. 13.00	- 2.46						
	9	21 Ursæ Maj. (1st Star)	B	48.9	53.1	57.5	5.9	10.1	14.4	27.5	31.5	35.6	40.0	9. 18. 14.47		14.29				9. 18. 19.44	- 4.05						
	10	21 Ursæ Maj. (2nd Star)	B	49.4	53.6	58.0	6.4	10.6	15.0	28.0	32.0	36.1	40.5	9. 18. 14.98		14.80				9. 18. 19.95	- 4.05						
	11	W. B. IX. 423 ...	B	...	...	10.1	15.0	17.5	20.1	27.7	30.1	...	...	9. 22. 20.09		20.28				9. 22. 25.43	- 2.30						
	12	γ ¹ Hydræ	B	...	...	...	...	...	48.9	56.3	58.7	1.1	3.8	9. 23. 48.86		49.11				9. 23. 54.26	- 2.15						
	13	γ ² Hydræ	B	...	...	...	32.6	35.0	37.5	45.0	47.4	49.9	52.4	9. 26. 37.54		37.78				9. 26. 42.93	- 2.17						
	14	γ Draconis	W	41.7	45.7	49.7	...	...	...	...	...	53.1	17.1	17. 54. 5.61		5.48		5.16		17. 54. 10.57	+ 0.85						
	15	δ Ursæ Minoris...	W	45.9	56.1	4.2	28.0	34.0	40.9	2.0	14.4	34.1	14.8	18. 5. 29.60		25.17	30.48	5.31	[- 0.10]	18. 5. 30.25	+ 20.17						
	16	η Serpentis	W	35.5	38.0	40.5	45.3	47.9	50.3	57.8	0.2	2.6	5.1	18. 15. 50.33		50.59	55.65	5.06		18. 15. 55.67	- 0.02						
	17	α Lyrae	W	0.1	3.3	6.4	12.8	15.9	19.1	28.5	31.8	34.9	38.2	18. 33. 19.11		19.10	24.32	5.22		18. 33. 24.18	+ 0.69						
	18	β ¹ Lyrae	W	50.8	53.9	56.8	2.6	5.8	8.7	17.5	20.4	23.2	26.3	18. 46. 8.61		8.64	13.76	5.12		18. 46. 13.72	+ 0.63						
	19	Cephei 51 S.P. ...	W	6.5	16.7	27.4	34.7	44.5	52.9	1.3	10.0	16.1	25.6	18. 52. 7.91		13.72	17.64	3.92		6. 52. 18.80	- 32.31						
	20	α Aquilæ	W	21.9	24.5	26.9	31.9	34.2	36.9	44.4	46.9	49.4	51.9	19. 45. 36.90		37.09	42.11	5.02		19. 45. 42.17	+ 0.39						
	21	α Cephei	W	...	31.3	36.5	47.3	52.6	58.0	13.9	19.3	24.3	...	21. 15. 57.94		57.63				21. 16. 2.70	+ 3.14						
	22	β ² Cephei	W	...	...	...	55.1	2.2	9.6	31.9	...	...	...	21. 27. 9.72		9.16				21. 27. 14.23	+ 4.78						
Feb. 12	23	⊙ 1 L.	W	12.2	14.7	17.2	22.3	25.1	27.5	35.3	38.0	40.5	43.2	21. 41. 27.61		} 34.89				21. 42. 39.96							
	24	⊙ 2 L.	W	26.1	28.5	31.4	36.5	39.1	41.5	49.2	51.7	54.2	56.8	21. 43. 41.51													
	25	α Andromedæ ...	W	...	...	...	...	52.1	55.0	3.6	6.1	9.0	11.8	0. 2. 54.97		55.04	0.08	5.04	5.06	0. 3. 0.10	+ 0.54						
	26	β Cassiopeia ...	W	...	...	...	...	...	...	45.1	49.7	54.4	59.4	0. 3. 30.83		30.58				0. 3. 35.64	+ 1.91						
	27	γ Cassiopeia ...	W	49.9	54.8	59.4	9.5	14.5	19.8	34.5	39.3	44.1	49.5	0. 50. 19.55		19.27				0. 50. 24.33	+ 1.52						
	28	β Andromedæ ...	W	31.0	34.0	37.0	43.0	46.2	49.1	58.1	1.2	4.1	7.2	1. 3. 49.10		49.13	54.11	4.98		1. 3. 54.19	+ 0.32						
	29	Polaris	R	33.5	54.1	14.1	21.6	28.1	52.1	57.0	5.1	35.8	43.9	1. 20. 7.57		5.26				1. 20. 10.31	+ 47.68						
	30	Polaris	W	50.0	54.5	58.6	17.0	20.1	24.4	55.1	6.6	31.9	36.7	1. 20. 17.66		5.21				1. 20. 10.26	+ 47.68						
	31	Lalande F. 659-60	W	...	...	...	...	...	...	13.2	28.8	43.5	59.3	4. 18. 27.80		26.33				4. 18. 31.37	- 3.39						
	32	ε Tauri	W	...	...	...	26.2	28.6	36.4	39.0	41.6	44.2	4. 22. 28.60		28.74	33.82	5.08			4. 22. 33.78	- 1.27						
	33	Oeltz Arg. (N.) 4948	W	46.0	51.0	56.0	...	...	...	...	37.0	42.0	47.4	4. 29. 16.59		16.30				4. 29. 21.34	- 1.88						
	34	Groombridge 856	W	...	...	51.1	22.5	38.9	54.4	42.3	58.1	...	...	4. 40. 54.61		53.08				4. 40. 58.12	- 4.63						
	35	96 Tauri	W	...	...	...	...	40.6	43.1	51.0	53.5	56.0	58.7	4. 43. 43.21		43.36				4. 43. 48.40	- 1.39						
	36	W.B.(2) IV. 1214-5	W	...	...	39.4	44.6	47.4	49.9	58.0	0.4	...	...	4. 55. 49.96		50.08				4. 55. 55.12	- 1.51						
	37	Neptune	W	26.9	29.5	32.1	37.4	40.0	42.7	50.7	53.4	56.0	58.5	4. 56. 42.73		42.85				4. 56. 47.89							
	38	δ Ursæ Min. S.P. ...	W	14.9	20.1	28.1	0.2	6.6	...	...	...	...	...	6. 5. 20.31		25.11	30.62	5.51		18. 5. 30.14	+ 20.03						
	39	Venus 2 L.	AC	30.5	33.1	35.8	41.0	43.8	46.5	54.6	57.0	59.9	2.6	19. 15. 46.49		46.87			5.06	19. 15. 51.37							
	40	α Aquilæ	AC	21.8	24.4	26.9	31.8	34.4	36.9	44.4	46.9	49.4	52.0	19. 45. 36.90		37.09	42.13	5.04	[- 0.02]	.....							
Feb. 13	41	⊙ 1 L.	AC	8.0	10.6	13.2	18.2	20.9	23.4	31.0	33.6	35.9	38.7	21. 45. 23.36		} 30.61				21. 46. 35.65							
	42	⊙ 2 L.	AC	21.9	24.5	26.9	32.1	34.6	37.1	44.9	47.4	49.9	52.5	21. 47. 37.19													
Feb. 17	43	⊙ 1 L.	B	43.1	45.7	48.1	53.2	55.6	58.4	6.0	8.4	10.8	13.6	22. 0. 58.30	+ 0.92	} 5.22			5.07	22. 2. 10.33							
	44	⊙ 2 L.	B	56.0	58.5	1.1	6.1	8.6	11.1	19.0	21.5	23.9	26.6	22. 3. 11.25	(- 0.52)				[+ 0.04]								
	45	γ Pegasi	B	31.8	34.2	36.9	42.0	44.5	47.0	54.8	57.4	59.9	2.3	0. 7. 47.09	[+ 6.57]	47.39	52.46	5.07	5.11	0. 7. 52.50	+ 0.29						
	46	β Andromedæ ...	B	30.6	33.6	36.6	42.6	45.8	48.9	57.9	0.8	3.9	7.0	1. 3. 48.78		48.96	54.05	5.09		1. 3. 54.07	+ 0.38						
	47	δ Cassiopeia ...	B	...	29.9	34.7	44.4	49.4	54.2	9.1	13.8	18.6	...	1. 18. 54.29		54.22				1. 18. 59.33	+ 1.25						
	48	Polaris	B	49.7	53.2	57.0	0.7	4.8	17.4	20.4	23.5	26.7	30.9	1. 20. 7.23		56.53	1.59	5.06		.....							
	49	η Piscium	B	...	...	...	...	...	...	57.4	59.9	2.4	5.0	1. 25. 49.69		49.99	55.05	5.06		1. 25. 55.10	- 0.07						
	50	51 Andromedæ ...	B	8.4	12.1	15.8	28.1	26.9	30.8	41.7	45.4	49.1	52.9	1. 31. 30.84		30.72				1. 31. 35.83	+ 0.53						
	51	τ Andromedæ ..	B	1.4	4.7	8.0	14.1	17.6	20.9	30.5	33.6	36.9	40.2	1. 34. 20.80		20.94				1. 34. 26.05	+ 0.27						

Correction for passage of Semidiameter, No. 39, — 0.854.

14. Observed over wires O, P, Q, Y and Z.

15. Observed over wire R with the transit-micrometer set to readings 35° 140, 35° 372, 35° 573, 36° 114, 36° 296, 36° 460, 36° 958, 37° 263, 37° 725, 38° 696.

19. Observed over wire T with the transit-micrometer set to readings 35° 624, 35° 400, 35° 248, 35° 058, 34° 902, 34° 712, 34° 578, 34° 370, 34° 278, 34° 040.

19, 20. Very unsteady.

29. Observed over wire R with the transit-micrometer set to readings 34° 680, 34° 883, 35° 076, 35° 100, 35° 194, 35° 392, 35° 418, 35° 494, 35° 728, 35° 838.

30. Observed over wire T with the transit-micrometer set to readings 35° 356, 35° 392, 35° 439, 35° 578, 35° 628, 35° 650, 35° 930, 36° 056, 36° 255, 36° 280.

38. Very cloudy. Observed over wire O with the transit-micrometer set to readings 36° 000, 35° 855, 35° 683, 34° 878, 34° 742.

48. Observed over wire T with the transit-micrometer set to readings 35° 453, 35° 479, 35° 516, 35° 545, 35° 563, 35° 682, 35° 722, 35° 742, 35° 771, 35° 804.

49, 51. Very faint.

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock anti-ventil. Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
			s	s	s	s	s	s	s	s	s	s								
Feb. 17	1	54 Andromedæ ...	B	39.2	43.4	47.1	54.8	58.8	2.6	14.2	18.0	21.9	26.0	1. 37. 2.62	+ 0.92	2.69			5.11	1. 37. 7.80 + 0.55
	2	α Trianguli	B	46.6	49.6	52.4	58.1	0.9	3.9	12.1	15.1	17.9	20.7	1. 47. 3.74	(- 0.52)	3.96			[+ 0.04]	1. 47. 9.07 - 0.03
	3	β Arietis	B	32.4	35.2	37.9	43.0	45.8	48.4	56.2	58.9	1.5	4.1	1. 43. 48.35	[+ 6.57]	48.63	53.71	5.08		1. 48. 53.74 - 0.15
	4	50 Cassiopeiæ ...	B	...	...	...	10.1	18.2	26.2	50.3	...	...	...	1. 54. 26.23		25.83				1. 54. 30.94 + 1.92
	5	γ ¹ Andromedæ ...	B	5.5	8.6	12.1	18.6	22.0	25.4	35.3	38.5	41.9	45.3	1. 57. 25.33		25.46				1. 57. 30.57 + 0.11
	6	γ ² Andromedæ ...	B	6.4	9.5	12.9	19.5	22.9	26.1	36.2	39.5	42.8	46.2	1. 57. 26.21		26.34				1. 57. 31.45 + 0.11
	7	α Arietis	B	57.2	59.8	2.5	8.0	10.6	13.5	21.5	24.1	26.7	29.6	2. 1. 13.36		13.63	18.74	5.11		2. 1. 18.74 - 0.20
	8	κ Persei	B	...	...	10.1	17.0	20.6	24.0	34.2	37.9	...	...	3. 2. 23.99		24.10				3. 2. 29.22 - 0.49
	9	55 Arietis	B	...	...	...	10.8	13.6	16.5	24.9	27.8	30.4	33.5	3. 3. 16.48		16.70				3. 3. 21.82 - 0.61
	10	Bradley 445	B	...	...	...	...	20.0	37.9	43.6	49.5	55.6	...	3. 8. 20.09		19.91				3. 8. 25.03 - 0.24
	11	Groombridge 628	B	...	26.9	33.9	47.8	54.9	2.0	22.9	30.0	36.9	...	3. 10. 1.96		1.66				3. 10. 6.78 - 0.14
	12	Groombridge 2214 S.P.	B	...	...	...	2.9	22.3	28.9	35.4	...	...	...	3. 13. 22.36		23.25				15. 13. 28.37 - 1.59
	13	Piazzi III. 37 ...	B	23.8	27.5	31.2	38.6	42.5	46.2	57.6	1.3	4.9	8.9	3. 15. 46.27		46.34				3. 15. 51.46 - 0.60
	14	Groombridge 661	B	52.2	55.3	58.8	5.3	8.6	12.0	21.5	24.8	28.0	31.5	3. 18. 11.81		11.95				3. 18. 17.07 - 0.68
	15	Groombridge 666	B	...	...	...	...	...	...	31.5	37.5	44.0	50.4	3. 22. 12.33		12.10				3. 22. 17.22 - 0.48
	16	Bradley 471	B	...	...	...	...	...	...	9.4	17.6	26.2	34.8	3. 23. 43.99		43.55				3. 23. 48.67 - 0.36
	17	ψ Persei	B	39.2	42.9	46.5	54.0	57.6	1.5	12.4	16.0	19.7	23.5	3. 29. 1.35		1.43				3. 29. 6.55 - 0.76
	18	Piazzi III. 97 ...	B	34.8	...	44.5	...	...	4.1	...	23.6	...	33.4	3. 34. 4.08		4.01				3. 34. 9.13 - 0.78
	19	Groombridge 720	B	39.1	...	48.6	...	...	8.2	...	28.0	...	37.7	3. 34. 8.32		8.25				3. 34. 13.37 - 0.78
	20	21 Tauri	B	22.0	24.5	27.3	...	...	38.1	...	48.9	51.6	54.4	3. 39. 38.12		38.38				3. 39. 43.50 - 0.90
	21	22 Tauri	B	30.3	33.1	35.9	...	...	46.7	...	57.4	0.1	2.9	3. 39. 46.64		46.90				3. 39. 52.02 - 0.90
	22	Piazzi III. 147 ...	B	26.8	29.4	32.1	37.5	40.2	43.0	...	...	...	...	3. 40. 42.97		43.23				3. 40. 48.35 - 0.91
	23	B. D. + 24° No. 566	B	51.3	...	56.6	...	...	7.4	...	18.2	...	23.8	3. 41. 7.46		7.72				3. 41. 12.84 - 0.91
	24	B. D. + 24° No. 567	B	53.5	...	59.3	...	...	10.0	...	20.6	...	26.2	3. 41. 9.92		10.18				3. 41. 15.30 - 0.91
	25	Piazzi III. 186 ...	B	...	...	...	...	20.6	24.3	35.5	39.0	42.6	46.3	3. 48. 24.35		24.43				3. 48. 29.55 - 0.99
	26	Groombridge 762	B	28.0	37.5	47.1	5.9	15.3	25.2	53.5	2.9	12.0	22.1	3. 54. 24.99		24.45				3. 54. 29.57 - 1.29
	27	α ¹ Tauri	AC	12.2	15.0	17.6	22.9	25.6	28.2	36.4	39.0	41.7	44.2	3. 58. 28.29		28.56	33.75	5.19	5.12†	.....
	28	Piazzi III. 237 ...	B	...	...	56.5	1.8	4.3	7.1	15.1	17.6	...	...	3. 59. 7.08		7.35			5.11	3. 59. 12.47 - 1.04
	29	ω ¹ Tauri	AC	...	48.9	51.4	56.7	59.5	2.0	10.0	12.5	15.0	...	4. 3. 2.02		2.31	7.38	5.07	5.12†	.....
	30	ω ¹ Tauri ... (E&E)	AC	3.2	19.0	34.7	...	6.4	21.8	37.8	...	...	...	4. 3. 1.81		2.10	7.38	5.28	.....	.....
	31	Piazzi III. 259 ...	B	...	...	...	54.1	58.6	2.2	13.9	...	...	...	4. 6. 2.21		2.27			5.11	4. 6. 7.39 - 1.21
	32	Lalande 7721 ...	B	...	...	...	...	...	39.5	44.0	48.5	53.1	...	4. 6. 25.78		25.75				4. 6. 30.87 - 1.28
	33	Groombridge 779	B	...	...	...	...	...	40.2	54.7	9.9	25.9	...	4. 8. 54.88		53.77				4. 8. 58.89 - 2.28
	34	Groombridge 785	B	...	...	...	1.5	16.2	2.3	17.4	32.5	48.9	...	4. 11. 16.58		15.46				4. 11. 20.58 - 2.39
	35	B. F. 522	B	...	...	...	...	...	33.5	37.9	42.1	46.8	...	4. 13. 20.09		20.08				4. 13. 25.20 - 1.37
	36	Lalande 8170 ...	B	...	...	...	...	42.1	50.0	52.3	55.0	57.6	...	4. 16. 42.13		42.42				4. 16. 47.54 - 1.15
	37	63 Tauri	B	7.1	9.8	12.2	17.4	20.0	22.7	30.2	32.9	35.5	38.1	4. 17. 22.60		22.89				4. 17. 28.01 - 1.15
	38	Piazzi IV. 99	B	...	19.3	...	26.9	29.5	32.1	40.0	...	44.9	...	4. 24. 32.14		32.43				4. 24. 37.55 - 1.20
	39	Piazzi IV. 102 ...	B	...	...	35.1	...	42.9	...	53.2	55.8	58.2	0.8	4. 24. 45.44		45.73				4. 24. 50.85 - 1.20
	40	Oeltz. Arg. (N.) 4948	B	...	50.5	55.5	5.7	10.9	15.9	31.4	36.2	41.4	...	4. 29. 15.98		15.89				4. 29. 21.01 - 1.71
	41	W. B. (2) IV. 641-3-5	B	15.4	18.6	21.9	28.6	32.1	35.5	...	...	...	...	4. 32. 35.38		35.50				4. 32. 40.62 - 1.43
	42	Groombridge 860	B	...	...	20.0	27.3	31.1	34.7	45.9	49.6	...	...	4. 33. 34.78		34.86				4. 33. 39.98 - 1.51
	43	Piazzi IV. 136 ...	B	24.8	32.0	39.5	54.2	2.0	9.4	31.3	38.2	45.7	53.3	4. 37. 9.07		8.73				4. 37. 13.85 - 2.27
	44	Groombridge 865	B	12.0	19.4	26.5	40.9	48.6	56.2	18.0	25.0	32.2	39.9	4. 37. 55.90		55.57				4. 38. 0.69 - 2.28
	45	Piazzi IV. 194 ...	B	...	17.6	20.1	...	...	30.4	...	40.6	43.1	...	4. 43. 30.38		30.67				4. 43. 35.79 - 1.32
	46	96 Tauri	B	28.2	...	32.7	37.9	...	...	50.6	53.1	55.6	...	4. 43. 43.04		43.33				4. 43. 48.45 - 1.32
	47	Groombridge 885	B	28.2	32.2	36.3	44.5	48.6	52.5	5.0	9.0	13.1	17.3	4. 44. 52.69		52.72				4. 44. 57.84 - 1.73
	48	2 Aurigæ	B	...	...	...	...	...	45.8	48.6	51.7	54.5	...	4. 45. 36.32		36.50				4. 45. 41.62 - 1.49
	49	1 Aurigæ	B	51.5	54.5	57.5	3.3	6.2	9.3	18.1	21.1	24.0	27.1	4. 50. 9.27		9.47	14.65	5.18		4. 50. 14.59 - 1.48
	50	1 Aurigæ ... (E&E)	B	4.8	22.6	...	58.0	...	33.5	50.8	...	...	...	4. 50. 9.26		9.46	14.65	5.19		.....
	51	Piazzi IV. 253 ...	B	...	...	...	...	...	55.4	26.3	37.1	47.4	58.3	4. 59. 55.27		54.63				4. 59. 59.75 - 3.64
	52	Piazzi IV. 269 ...	B	6.0	19.4	32.2	58.3	11.7	24.9	4.0	17.1	30.0	43.5	5. 5. 24.77		23.87				5. 5. 28.99 - 4.55
	53	Bradley 729	B	...	...	19.3	24.2	26.6	29.2	36.7	39.1	...	...	5. 8. 29.19		29.61				5. 8. 34.73 - 1.35
	54	Rigel	B	13.1	15.6	18.1	23.0	25.6	28.1	35.6	38.1	40.6	43.2	5. 9. 28.11		28.53	33.69	5.16		5. 9. 33.65 - 1.35

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 30 and 50, + 11".33 and + 11".31.

12. Very faint; cloudy.

52. Cloudy.

1898 GO. 582. 1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Feb. 17	1	Piazzi V. 25	B	2'1	4'8	7'4	12'8	15'3	18'0	26'0	28'4	31'0	33'8	5. 11. 17'97	+ 0'92	18'25			5'11	5. 11. 23'37	- 1'53	
	2	λ Leporis	B	27'6	30'0	32'6	37'7	40'1	42'8	50'4	52'9	55'5	58'2	5. 14. 42'79	(- 0'52)	43'24		[+ 0'04]	5. 14. 48'36	- 1'36		
	3	Piazzi V. 62	B	35'1	...	40'9	...	...	52'5	...	...	...	10'0	5. 17. 52'51	[+ 6'57]	52'72			5. 17. 57'84	- 1'69		
	4	Piazzi V. 63	B	...	38'3	...	46'9	49'8	...	1'4	...	6'9	...	5. 17. 52'68		52'89			5. 17. 58'01	- 1'69		
	5	Groombridge 962	B	29'9	...	48'1	6'1	15'4	24'5	52'1	0'9	...	19'9	5. 23. 24'63		24'12			5. 23. 29'24	- 3'96		
	6	Piazzi V. 117	B	34'7	38'8	...	51'5	56'0	0'0	12'8	...	21'1	25'6	5. 28. 0'08		0'09			5. 28. 5'21	- 2'33		
	7	α Orionis	B	13'8	16'1	18'6	23'6	26'1	28'6	...	...	43'7	58'7	5. 49. 28'65		28'99	34'09	5'10	5. 49. 34'11	- 1'64		
	8	β Aurigæ	B	...	...	36'9	44'0	47'6	50'9	1'5	4'9	...	...	5. 51. 50'98		51'09			5. 51. 56'21	- 2'24		
	9	θ Aurigæ	B	...	19'0	22'0	28'1	31'4	34'3	...	...	...	...	5. 52. 34'42		34'59			5. 52. 39'71	- 2'07		
	10	γ Geminorum ...	B	23'3	26'0	28'4	33'5	36'1	38'7	46'5	49'0	51'5	54'1	6. 31. 38'72		39'01	44'15	5'14	6. 31. 44'13	- 1'95		
	11	55 Aurigæ	B	7'3	10'8	...	...	...	...	38'6	42'1	45'5	49'1	6. 35. 28'19		28'30			6. 35. 33'42	- 2'63		
	12	ε Geminorum ...	B	...	...	...	...	...	...	37'0	39'7	42'3	45'3	6. 37. 28'79		29'04			6. 37. 34'16	- 2'13		
	13	Pollux	B	37'4	40'1	...	48'5	51'4	54'2	2'7	...	8'2	11'3	7. 38. 54'24		54'46	59'62	5'16	7. 38. 59'58	- 2'48		
	14	Jupiter 1 L.	B	5'3	21'1	36'9	42'1	...	52'7	3'5	8'6	24'3	40'1	8. 13. 52'74		54'62			8. 13. 59'74			
	15	Jupiter 2 L.	B	8'3	24'2	40'0	45'4	...	55'8	6'4	11'9	27'7	43'5	8. 13. 55'93		36'82			8. 20. 41'94	- 4'59		
	16	ο Ursæ Majoris...	B	6'2	11'4	16'2	26'6	31'9	36'9	52'2	57'4	2'3	7'8	8. 20. 36'91		35'73			8. 31. 40'85	- 2'47		
	17	W. B. (2) VIII. 708	B	19'6	22'2	25'0	30'1	32'9	35'6	43'3	45'9	48'5	51'3	8. 31. 35'45		3'47			8. 52. 8'59	- 3'57		
	18	ι Ursæ Majoris ...	B	56'2	18'9	41'2	...	...	...	...	...	...	10'2	8. 52. 5'40								
Feb. 18	19	β Tauri	H	22'5	25'4	28'2	33'8	36'8	39'6	48'0	50'8	53'5	56'5	5. 19. 39'52	[+ 3'55]	39'65	44'67	5'02	5'02			
	20	ε Orionis	H	56'6	...	1'6	6'6	9'1	11'5	19'0	21'5	...	26'5	5. 30. 11'56		11'80		[0'00]	5. 30. 16'82	- 1'46		
	21	Groombridge 993	H	...	...	24'2	44'0	...	4'9	...	...	...	6'1	5. 36. 4'83		4'56			5. 36. 9'58	- 4'59		
	22	κ Orionis	H	30'5	33'1	35'6	...	...	45'6	...	55'6	58'1	0'6	5. 42. 45'60		45'85	50'89	5'04	.....			
	23	ι Geminorum	H	...	31'1	33'9	39'1	41'9	44'6	52'6	55'5	58'1	...	5. 57. 44'62		44'78	49'70	4'92	.....			
	24	ι Geminorum (E&E)	H	45'2	1'3	17'5	...	49'7	5'9	21'9	...	...	...	5. 57. 44'16		44'32	49'70	5'38	.....			
	25	δ Ursæ Min. S.P.	H	57'6	4'7	13'4	21'0	48'4	34'9	44'1	20'6	30'6	39'0	6. 5. 24'89		26'96	32'48	5'52	18. 5. 31'98	+ 18'17		
	26	Sirius	H	14'8	17'6	20'0	25'3	28'0	30'3	38'1	40'6	43'1	45'9	6. 40. 30'38		30'66			6. 40. 35'68	- 1'68		
	27	Cephei 51	H	47'9	1'4	8'1	17'1	24'7	35'4	42'7	52'9	1'4	10'5	6. 52. 13'69		11'52			6. 52. 16'54	- 30'38		
	28	Groombridge 1275	H	38'9	42'2	45'8	...	...	59'8	...	13'5	16'8	20'5	7. 4. 59'66		59'74			7. 5. 4'76	- 2'81		
	29	46 Camelopardi ...	H	40'9	45'5	50'4	...	...	9'8	...	28'9	33'6	38'9	7. 10. 9'73		9'72			7. 10. 14'74	- 3'80		
	30	δ Geminorum	B	35'5	38'2	40'9	46'1	48'9	51'6	59'7	2'2	4'9	7'6	7. 13. 51'57		51'73	56'94	5'21	5'23†	.....		
	31	δ Geminorum (E&E)	B	53'0	8'8	25'0	41'0	57'0	12'9	28'9	...	...	...	7. 13. 51'48		51'64	56'94	5'30	.....			
	32	β Canis Minoris	B	12'2	14'8	17'3	22'1	24'7	27'2	34'8	37'3	39'7	42'2	7. 21. 27'24		27'43	32'67	5'24	.....			
	33	β Canis Minoris (E&E)	B	31'8	46'8	1'7	16'7	31'6	46'6	1'5	...	...	...	7. 21. 27'21		27'40	32'67	5'27	.....			
	34	λ Ursæ Min. S.P.	H	32'7	56'4	6'9	20'5	35'3	49'8	0'5	8'9	24'7	34'6	7. 25. 16'18		22'66			5'02	19. 25. 27'68	+ 89'80	
	35	Procyon	H	33'4	35'9	38'3	43'4	45'8	48'3	55'8	58'3	0'6	3'3	7. 33. 48'32		48'53	53'61	5'08	.....			
	36	Groombridge 1634	H	27'2	32'0	36'9	47'0	52'2	57'3	12'4	17'5	22'1	27'7	7. 38. 57'25		57'22			7. 39. 2'24	- 4'20		
	37	Jupiter 1 L.	H	11'1	...	16'3	...	...	27'4	...	37'6	...	43'0	8. 13. 27'08		28'76			8. 13. 33'78			
	38	Jupiter 2 L.	H	14'2	...	19'5	...	...	30'1	...	40'6	...	46'0	8. 13. 30'09								
	39	72 Ophiuchi	AC	...	...	...	17'5	20'0	27'4	30'0	32'3	35'1	18. 2. 19'95	(- 1'39)	20'10	25'28	5'18	5'25	18. 2. 25'30	- 0'18		
	40	δ Ursæ Minoris...	AC	9'6	14'8	21'0	28'4	59'6	6'1	13'4	20'4	...	...	18. 5. 29'65		27'11	32'63	5'52	[- 0'07]	18. 5. 32'31	+ 18'02	
Feb. 19	41	β Arietis	AC	32'4	35'0	37'8	43'0	45'8	48'4	56'4	59'0	1'6	4'1	1. 48. 48'36		48'47	53'68	5'21	5'18	1. 48. 53'64	- 0'12	
	42	α Arietis	AC	57'2	0'0	2'6	8'0	10'8	13'5	21'5	24'1	26'8	29'6	2. 1. 13'42		13'52	18'71	5'19		2. 1. 18'69	- 0'17	
	43	ζ Ceti	AC	17'9	20'2	22'8	27'7	30'1	32'8	40'2	42'7	45'2	47'9	2. 22. 32'76		32'91	38'07	5'16		2. 22. 38'08	- 0'41	
	44	ο Tauri	AC	53'1	55'7	58'1	3'3	5'8	8'3	15'9	18'2	20'6	23'4	3. 19. 8'25		8'40	13'63	5'23		3. 19. 13'57	- 0'74	
	45	ξ Tauri	AC	12'1	14'7	17'3	22'1	24'9	27'4	34'6	37'2	39'7	42'2	3. 21. 27'23		27'38				3. 21. 32'55	- 0'75	
	46	11 Tauri	R.	12'5	15'3	18'0	23'4	26'1	28'9	...	...	...	...	3. 34. 28'89		29'17	34'33	5'16		3. 34. 34'34	- 0'82	
	47	26 Tauri	AC	25'4	28'1	31'0	36'1	39'0	41'9	...	...	...	...	3. 42. 41'68		41'78				3. 42. 46'95	- 0'89	
	48	Piazzi III. 161 ...	AC	...	43'8	46'3	51'6	54'4	57'0	5'3	7'9	10'5	...	3. 42. 57'12		57'22				3. 43. 2'39	- 0'89	
	49	Piazzi III. 165 ...	AC	26'6	29'4	32'1	37'4	40'1	43'0	51'0	53'7	56'2	59'1	3. 43. 42'87		42'97				3. 43. 48'14	- 0'89	
	50	Groombridge 780 ...	AC	48'2	55'4	2'16	2'23	4'30	4'4	51'4	58'2	4'9	12'2	4. 3. 30'28		30'00				4. 3. 35'17	- 1'31	
	51	γ Tauri	H	33'0	35'6	38'1	43'4	46'0	48'4	56'1	58'7	1'2	3'9	4. 13. 48'45		48'57	53'47	4'90	4'94†			
	52	δ Tauri	AC	36'4	39'0	41'8	46'6	49'3	51'8	59'8	2'1	4'8	7'5	4. 16. 51'92		52'04			5'18	4. 16. 57'21	- 1'12	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 24, 31, and 33, + 10^s.58 : + 10^s.54 : and + 10^s.54.

- 3, 4, 5, 6, 9, 10, 11, 13, 14, 15, 17, 18. Cloudy.
14, 15. Observed over wires M, N, O, Q, T, V, X, Y and Z.
15, 38. A correction of + 0^s.01, for defect of illumination, has been applied in forming the concluded transit.
18. Observed over wires M, N, O and Z.
25. Cloudy at times. Observed over wire T with the transit-micrometer set to readings 36^s.252, 36^s.081, 35^s.902, 35^s.711, 35^s.031, 33^s.940, 33^s.690, 32^s.804, 32^s.603, 32^s.362.
27. Observed over wire X with the transit-micrometer set to readings 33^s.799, 34^s.090, 34^s.199, 34^s.372, 34^s.527, 34^s.712, 34^s.853, 34^s.059, 35^s.230, 35^s.425.
34. Observed over wire S with the transit-micrometer set to readings 35^s.592, 35^s.419, 35^s.398, 35^s.265, 35^s.160, 35^s.040, 34^s.991, 34^s.915, 34^s.820, 34^s.720.
37, 38. Cloudy. Limb faint and ill-defined.
40. Observed over wire S with the transit-micrometer set to readings 34^s.676, 34^s.816, 34^s.971, 35^s.135, 35^s.872, 36^s.026, 36^s.211, 36^s.374.

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MON. AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit (Cor- rected).	Tabular R.A. of Known stars.	Clock appa- rently slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Level].								
															[Azimuth].								
				s	s	s	s	s	s	s	s	s	s	h	m	s		s	s	h	m	s	s
Feb. 19	1	Groomb. 2338 S.P.	AC	...	...	...	...	...	...	20.2	33.9	40.9	47.9	4. 18. 6.63	+ 0.92		7.15			5.18			
	2	ε Tauri	H	12.9	15.5	18.1	23.5	26.1	28.7	36.5	39.1	41.7	44.3	4. 22. 28.65	(- 1.39)		28.76	33.71	4.95	[- 0.07]	16. 18. 12.32	- 0.25	
	3	Aldebaran	AC	...	...	...	...	0.7	3.3	5.9	8.4	24.0	39.4	4. 29. 53.05	[+ 3.55]		53.17	58.28	5.11	4.94†	4. 29. 58.34	- 1.19	
	4	δ Ursæ Min. S.P.	AC	19.0	27.4	35.4	43.1	50.6	59.9	9.9	18.9	31.4	40.0	6. 5. 24.49			27.28	32.79	5.51	5.18	18. 5. 32.44	+ 17.86	
	5	13 Monocerotis	AC	43.4	58.5	...	...	...	...	...	...	43.1	58.1	6. 27. 13.33			13.49				6. 27. 18.65	- 1.81	
	6	γ Geminorum	AC	23.4	26.0	28.5	33.9	36.2	...	...	...	...	...	6. 31. 38.89			39.01	44.13	5.12		6. 31. 44.17	- 1.93	
	7	Cephei 51	AC	28.3	44.2	59.7	6.0	14.8	22.1	30.0	36.9	45.8	54.0	6. 52. 16.63			13.49				6. 52. 18.65	- 30.06	
Feb. 21	8	κ Cancri	WB	48.8	51.3	53.9	58.9	1.4	4.0	11.5	14.1	16.5	19.0	9. 2. 3.95	(- 2.52)		4.06	9.22	5.16	5.15	...	...	
	9	θ Hydræ	WB	39.4	42.0	44.2	49.0	51.6	54.1	1.5	4.0	6.4	9.1	9. 8. 54.14	[+ 4.21]		54.30			[- 0.03]	9. 8. 59.44	- 2.24	
	10	83 Cancri	WB	52.1	54.9	57.4	2.5	5.3	8.0	15.8	18.2	20.8	23.5	9. 13. 7.86			7.93	13.11	5.18		...	...	
	11	κ Leonis	WB	16.7	19.5	22.4	27.8	30.7	33.4	41.9	44.6	47.4	50.1	9. 18. 33.46			33.49				9. 18. 38.63	- 2.72	
	12	θ Ursæ Majoris	WB	29.0	33.1	37.0	45.0	49.0	53.2	5.3	9.3	13.1	17.4	9. 25. 53.16			52.97				9. 25. 58.11	- 3.90	
	13	ο Leonis	WB	18.0	20.6	23.0	28.0	30.6	33.0	40.6	43.1	45.6	48.2	9. 35. 33.08			33.20	38.35	5.15		...	...	
	14	ε Leonis	WB	38.1	40.8	43.5	49.0	51.8	54.4	2.7	5.3	8.0	10.9	9. 39. 54.45			54.50	59.56	5.06		...	...	
	15	ρ Leonis	AC	2.2	4.7	7.1	12.0	14.6	17.1	24.9	27.2	29.7	32.2	10. 27. 17.18			17.30	22.46	5.16	5.07†	...	...	
	16	34 Sextantis	AC	57.5	...	...	7.4	10.0	12.4	...	22.2	24.9	...	10. 37. 12.42			12.57	17.53	4.96		...	...	
	17	α Lyrae	H	0.8	3.9	7.1	13.5	16.6	19.8	29.3	32.3	35.5	38.9	18. 33. 19.78	(- 1.31)		19.84	24.60	4.76	4.80	18. 33. 24.69	+ 0.41	
	18	α Aquilæ	H	22.2	24.9	27.3	32.1	34.8	37.3	44.9	47.3	49.8	52.2	19. 45. 37.29	[+ 4.86]		37.50	42.33	4.83	[+ 0.06]	19. 45. 42.35	+ 0.17	
	19	Venus 2 L.	H	4.6	7.2	10.0	15.1	17.8	20.4	28.2	31.0	33.6	36.4	20. 2. 20.44			20.81				20. 2. 25.14	...	
Feb. 22	20	⊙ 1 L.	H	56.5	58.9	1.5	6.4	9.1	11.5	19.2	21.8	24.2	26.7	22. 20. 11.59							22. 21. 22.89	...	
	21	⊙ 2 L.	H	8.6	11.2	13.8	18.9	21.3	23.8	31.5	34.0	36.2	39.0	22. 22. 23.84							...	...	
	22	β Andromedæ	H	31.0	34.0	37.0	43.1	46.1	49.1	58.1	1.2	4.1	7.2	1. 3. 49.10			49.18	53.99	4.81	4.86	1. 3. 54.04	+ 0.44	
	23	Polaris	H	24.2	35.7	42.8	6.0	23.4	29.7	46.1	52.0	58.6	18.5	1. 20. 4.90			55.45	58.22	2.77		...	...	
	24	B. F. 522	H	53.5	58.1	2.5	11.4	15.9	20.1	...	...	...	...	4. 13. 20.28			20.18				4. 13. 25.05	- 1.21	
	25	φ Tauri	H	...	...	...	...	...	1.9	4.5	7.2	10.1	...	4. 13. 53.45			53.58				4. 13. 58.45	- 1.08	
	26	Groombridge 828	H	35.5	43.4	51.9	8.0	16.6	24.5	48.9	57.1	5.0	13.4	4. 21. 24.46			24.01				4. 21. 28.88	- 1.68	
	27	Groomb. 2352 S.P.	H	37.4	41.7	45.5	49.3	1.5	5.5	9.7	17.9	21.6	25.7	4. 26. 1.56			2.00				16. 26. 6.87	- 0.59	
	28	Oeltz. Arg. (N.) 4928	H	...	...	56.5	6.2	11.5	16.7	31.5	37.0	42.1	47.2	4. 28. 16.62			16.46				4. 28. 21.33	- 1.51	
	29	Piazzi IV. 148	H	28.3	31.3	34.1	39.8	42.6	45.4	53.8	56.5	59.4	2.2	4. 34. 45.35			45.47				4. 34. 50.34	- 1.25	
	30	π ¹ Orionis	H	52.8	55.4	57.9	2.6	5.2	7.7	15.1	17.7	20.1	22.7	4. 44. 7.73			7.96				4. 44. 12.83	- 1.21	
	31	δ 1 L.	H	51.1	54.1	56.9	2.6	5.5	8.4	17.1	19.9	22.7	25.8	4. 47. 8.42			8.55				4. 48. 25.98	...	
	32	Neptune	H	16.8	19.3	22.0	27.4	30.0	32.7	40.8	43.2	46.0	48.7	4. 56. 32.70			32.86				4. 56. 37.73	...	
	33	ε Leporis	H	43.3	46.0	48.9	54.1	56.8	59.6	7.4	10.0	12.6	15.5	5. 0. 59.43			59.81	4.64	4.83		5. 1. 4.68	- 1.18	
	34	δ Ursæ Min. S.P.	H	9.5	18.8	26.5	45.0	8.0	15.3	32.2	39.0	49.3	9.5	6. 5. 25.30			29.01	33.65	4.64		...	...	
	35	Groomb. 2541 S.P.	H	...	...	...	...	41.6	45.5	49.5	58.1	2.1	6.5	6. 13. 41.47			41.93				18. 13. 46.81	+ 0.76	
	36	B. D. + 63° No. 647	H	...	...	...	...	53.5	58.0	14.9	21.1	26.2	31.9	6. 18. 58.34			58.12				6. 19. 3.00	- 3.51	
	37	γ Geminorum	H	23.4	26.1	28.6	33.8	36.3	39.1	46.6	49.3	51.9	54.5	6. 31. 38.97			39.14	44.09	4.95		6. 31. 44.02	- 1.89	
	38	ε Geminorum	H	...	11.1	13.8	18.9	21.4	23.9	31.5	34.0	36.5	...	6. 39. 23.91			24.11	29.00	4.89		6. 39. 28.99	- 1.90	
	39	ε Geminorum (B&E)	H	30.1	45.3	0.5	...	31.0	...	...	...	...	...	6. 39. 23.37			23.57	29.00	5.43		...	...	
	40	Sirius	H	14.9	17.4	20.1	25.1	28.0	30.3	38.0	40.7	43.2	46.0	6. 40. 30.38			30.72				6. 40. 35.60	- 1.63	
	41	61 Aurigæ	H	27.8	30.9	34.1	40.3	43.7	46.8	56.4	59.6	2.5	5.9	6. 46. 46.81			46.87				6. 46. 51.75	- 2.44	
	42	e Geminorum	H	...	...	...	38.2	40.9	43.5	51.1	53.6	56.0	58.9	6. 48. 43.46			43.65				6. 48. 48.53	- 1.95	
	43	Cephei 51	H	46.4	57.8	7.4	33.3	41.6	22.4	29.5	39.0	58.8	6.2	6. 52. 14.01			9.91	14.55	4.64		...	...	
	44	τ Draconis S.P. R.	H	32.2	41.4	49.5	58.0	...	...	...	...	...	...	7. 17. 23.65			24.19				19. 17. 29.07	+ 4.21	
	45	τ Draconis S.P.	H	...	...	...	...	...	...	...	58.0	6.2	14.8	7. 17. 23.63			24.51				19. 17. 29.39	+ 4.21	
	46	λ Ursæ Min. S.P.	H	51.6	0.2	9.6	28.2	37.0	46.9	5.0	14.5	24.0	45.2	7. 25. 18.61			30.47	32.82	2.35		...	...	
	47	Pollux	H	37.6	40.5	43.4	48.9	51.8	54.5	2.9	5.8	8.5	11.5	7. 38. 54.55			54.67	59.58	4.91		7. 38. 59.55	- 2.44	
	48	Bradley 1130	H	19.9	22.6	25.3	30.7	33.5	...	44.3	47.1	49.9	52.7	7. 44. 36.23			36.62				7. 44. 41.50	- 1.82	
	49	ξ Argûs	H	35.5	38.1	40.9	...	...	...	...	2.7	5.4	8.1	7. 44. 51.79			52.18	56.99	4.81		7. 44. 57.06	- 1.82	
	50	W. B. (2) VII. 1439	H	50.6	53.4	56.0	1.6	4.2	7.1	15.4	18.0	20.6	23.5	7. 54. 7.05			7.19				7. 54. 12.07	- 2.45	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 39, + 7.65.

Corrections for passage of Semidiameter, Nos. 19 and 31, - 0.52 and + 72.55.

3. Observed over wires U, V, W, X, Y and Z.

4. Observed over wire Q with the transit-micrometer set to readings 36.861, 36.650, 36.510, 36.289, 36.093, 35.887, 35.638, 35.410, 35.120, 34.920.

5. Observed over wires N, O, Y and Z.

7. Observed over wire B with the transit-micrometer set to readings 35.510, 38.152, 38.461, 38.591, 38.762, 38.901, 39.058, 39.186, 39.358, 39.534.

14. Very faint; cloudy.

23. Observed over wire T with the transit-micrometer set to readings 35.239, 35.350, 35.415, 35.599, 35.789, 35.818, 35.970, 36.012, 36.050, 36.232.

31. Correction to R.A. on true meridian, + 0.01.

34. Observed over wire R with the transit-micrometer set to readings 36.582, 36.343, 36.142, 35.693, 35.138, 34.988, 34.591, 34.423, 34.178, 33.670.

36. Observed in dark field with wires illuminated.

43. Observed over wire U with the transit-micrometer set to readings 34.442, 34.620, 34.820, 35.330, 35.500, 36.293, 36.424, 36.621, 37.012, 37.152.

46. Observed over wire B with the transit-micrometer set to readings 35.208, 35.144, 35.087, 34.942, 34.883, 34.810, 34.674, 34.595, 34.559, 34.373.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

1988 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896°.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
Feb. 22	1	Groombridge 1119	H	53.3	1.3	7.0	28.9	37.9	45.1	3.1	12.5	21.0	38.0	7. 55. 17.67	+ 0.92	6.49			4.86	7. 55. 11.37	- 93.50
	2	Groomb. 3071 S.P.	H	...	...	...	...	49.5	54.0	58.3	7.3	11.7	16.0	8. 6. 49.62	(- 1.31)	50.11			[+ 0.06]	20. 6. 54.99	+ 1.94
	3	Jupiter 1 L.	H	32.9	...	38.1	...	...	48.8	...	59.5	...	4.7	8. 11. 48.80	[+ 4.86]	50.58				8. 11. 55.46	
	4	Jupiter 2 L.	H	36.0	...	41.5	...	...	52.0	...	2.5	...	8.0	8. 11. 52.01							
	5	W.B.(2) VIII. 708	H	19.9	22.5	25.1	30.4	32.9	35.7	43.8	46.2	48.9	51.6	8. 31. 35.71		35.88				8. 31. 40.76	- 2.46
	6	Piazzi VIII. 118..	H	49.6	52.2	...	...	...	5.3	...	...	18.6	21.1	8. 33. 5.37		5.54				8. 33. 10.42	- 2.47
	7	B.D.+20° No. 2165	H	4.0	6.8	9.4	14.5	17.4	19.9	27.9	30.3	33.1	35.8	8. 34. 19.92		20.09				8. 34. 24.97	- 2.47
	8	Bradley 1224.....	H	5.5	8.1	10.7	16.0	18.8	21.3	29.1	31.7	34.5	37.2	8. 34. 21.30		21.47				8. 34. 26.35	- 2.47
	9	42 Cancri	H	...	...	...	...	39.8	42.3	50.2	52.9	55.4	58.1	8. 34. 42.33		42.50				8. 34. 47.38	- 2.47
	10	W.B.(2) VIII. 1193	H	31.9	34.9	37.8	...	...	...	...	1.7	4.5	7.8	8. 50. 49.78		49.87				8. 50. 54.75	- 2.87
	11	a Cancri.....	H	30.0	32.5	35.0	40.1	42.9	45.2	52.9	55.3	58.0	0.5	8. 52. 45.25		45.45	50.33	4.88		8. 52. 50.33	- 2.36
	12	83 Cancri	H	...	54.9	57.6	2.8	5.5	8.1	15.9	18.3	20.9	...	9. 13. 8.02		8.19	13.11	4.92		9. 13. 13.07	- 2.50
	13	83 Cancri ..(E&E)	H	13.1	28.6	44.2	...	15.7	31.0	46.4	...	...	...	9. 13. 7.44		7.61	13.11	5.50		.....	
	14	Groomb. 3548 S.P.	H	58.0	6.6	14.3	29.5	36.3	16.1	25.3	31.2	48.9	55.4	9. 19. 40.12		43.83				21. 19. 48.71	+ 31.91
	15	p Leonis	H	...	4.7	7.4	12.2	14.9	17.5	24.9	27.3	29.9	...	10. 27. 17.37		17.58	22.47	4.89		10. 27. 22.47	- 2.37
	16	p Leonis ..(E&E)	H	...	39.1	54.2	...	24.5	39.6	...	...	...	...	10. 27. 16.91		17.12	22.47	4.35		.....	
	17	x Leonis	H	21.3	23.7	26.1	31.3	33.9	36.2	43.9	46.1	48.7	51.3	10. 59. 36.26		36.47	41.41	4.94		10. 59. 41.36	- 2.30
Feb. 23	18	⊙ 1 L.	AC	44.9	47.5	49.9	55.0	57.5	59.9	7.6	10.0	12.6	15.1	22. 24. 0.01	(- 0.60)	6.21			5.17	22. 25. 11.42	
	19	⊙ 2 L.	AC	56.6	59.5	1.9	6.7	9.3	12.0	19.4	21.8	24.3	26.8	22. 26. 11.84	[+ 4.05]				[+ 0.04]	.....	
	20	β Tauri	AC	22.2	25.1	28.0	33.6	36.3	39.1	47.8	50.5	53.3	56.1	5. 19. 39.21		39.36	44.58	5.22		5. 32. 43.20	- 1.69
	21	B. F. 747	AC	20.8	23.7	26.6	32.1	35.1	37.8	46.3	49.1	52.0	54.7	5. 32. 37.83		37.98				5. 42. 11.48	- 1.65
	22	Piazzi V. 222	AC	50.2	52.8	55.5	0.7	3.5	6.1	13.9	16.6	19.4	22.0	5. 42. 6.08		6.26				5. 42. 13.27	- 1.65
	23	W.B.(2) V. 1321-2	AC	52.0	54.6	57.1	2.4	5.3	7.9	15.9	18.5	21.1	23.8	5. 42. 7.87		8.05				5. 49. 54.16	
	24	δ 1 L.	AC	17.1	20.0	22.9	28.7	31.6	34.3	43.2	46.0	48.9	52.0	5. 48. 34.48		34.63				17. 56. 21.18	+ 0.37
	25	Groomb. 2495 S.P.	AC	52.9	56.6	0.3	4.2	15.7	19.5	23.6	31.1	34.2	38.5	5. 56. 15.64		15.96				.....	
	26	ν Orionis	AC	18.9	21.5	24.1	29.1	31.6	34.2	42.0	44.5	47.0	49.7	6. 1. 34.27		34.47	39.67	5.20		18. 5. 34.03	+ 16.73
	27	δ Ursæ Min. S.P.	AC	5.1	11.9	17.2	23.3	48.5	54.0	59.0	5.9	49.4	54.5	6. 5. 26.30		28.81	33.92	5.11		6. 11. 31.05	- 1.51
	28	Lalande 12000 ...	AC	10.1	12.6	15.1	20.3	22.9	25.5	33.3	36.0	38.4	41.0	6. 11. 25.53		25.83				.....	
	29	μ Geminorum	AC	20.4	23.2	26.0	31.1	34.0	36.5	44.6	47.2	50.0	52.6	6. 16. 36.57		36.74	41.97	5.23		6. 19. 2.68	- 3.48
	30	B.D.+63° No. 647	AC	23.6	29.5	35.1	46.1	52.0	57.5	14.4	20.0	25.5	31.5	6. 18. 57.54		57.46				18. 24. 54.63	+ 0.93
	31	Groomb. 2579 S.P.	AC	...	28.1	32.0	36.1	49.0	53.3	57.6	6.1	10.4	...	6. 24. 49.05		49.41				6. 28. 41.14	- 2.06
	32	49 Aurigæ	AC	19.0	21.9	24.4	30.1	32.9	35.8	44.2	47.0	49.7	52.6	6. 28. 35.77		35.92				6. 37. 34.06	- 2.06
	33	ε Geminorum	AC	12.3	14.9	17.7	23.1	26.0	28.7	37.0	39.6	42.2	45.2	6. 37. 28.68		28.84				6. 40. 35.65	- 1.61
	34	Sirius	AC	14.4	17.1	19.8	24.9	27.7	30.1	38.0	40.5	43.1	45.6	6. 40. 30.13		30.43				6. 52. 14.51	- 28.97
	35	Cephei 51	AC	6.9	14.1	22.9	32.0	59.0	5.2	11.7	19.1	...	...	6. 52. 11.95		9.29	14.30	5.01		17. 42. 23.49	- 0.23
	36	μ Herculis	B	1.3	4.1	7.1	12.5	15.3	18.0	26.5	29.2	32.0	34.9	17. 42. 18.10	(+ 0.15)	18.30	23.47	5.17		17. 51. 43.28	+ 0.61
	37	ξ Draconis	B	10.8	15.4	19.8	28.9	33.5	38.1	51.6	56.0	0.5	5.3	17. 51. 38.01		38.09				18. 3. 29.18	- 0.07
	38	ο Herculis	B	6.9	9.7	12.4	18.0	20.9	24.0	32.2	35.0	38.0	40.7	18. 3. 23.79		23.99				18. 5. 34.16	+ 16.59
	39	δ Ursæ Minoris...	B	3.8	10.7	16.7	31.6	36.9	49.0	1.6	22.7	35.0	44.1	18. 5. 30.41		28.97	34.06	5.09		18. 16. 12.85	+ 0.16
	40	κ Lyrae	B	49.1	52.2	55.4	1.4	4.2	7.5	16.7	19.6	22.6	26.0	18. 16. 7.48		7.66				18. 22. 53.07	+ 2.84
	41	χ Draconis	B	57.9	6.4	14.6	31.1	39.5	48.0	12.9	21.4	29.5	38.0	18. 22. 47.97		47.88				18. 33. 24.56	+ 0.35
	42	α Lyrae	B	0.1	3.3	6.4	12.9	16.1	19.3	28.7	31.9	35.0	38.2	18. 33. 19.20		19.37	24.66	5.29		18. 46. 14.08	+ 0.30
	43	β ¹ Lyrae	B	...	54.0	56.8	2.7	5.8	8.8	17.5	20.4	23.5	...	18. 46. 8.71		8.89	14.09	5.20		6. 52. 14.69	- 28.84
	44	Cephei 51 S.P. ...	B	56.9	61.1	46.9	1.0	19.6	34.3	9.5	35.2	45.8	6.2	18. 52. 7.24		9.50	14.17	4.67		20. 12. 39.39	
	45	Venus 2 L.	B	18.5	21.2	24.0	29.1	31.9	34.2	42.2	44.9	47.4	50.2	20. 12. 34.37		34.71				20. 18. 28.67	+ 1.03
	46	γ Cygni	B	4.0	7.3	10.3	16.8	20.0	23.4	33.0	36.1	39.4	42.8	20. 18. 23.32		23.48				20. 37. 51.80	+ 1.34
	47	α Cygni	B	25.5	29.0	32.5	39.4	43.0	46.4	57.0	0.3	3.9	7.5	20. 37. 46.47		46.61				20. 41. 59.33	+ 0.87
	48	ε Cygni	B	36.1	39.0	42.0	48.0	51.0	54.0	3.0	5.9	8.7	11.8	20. 41. 53.96		54.14				21. 1. 7.45	+ 1.35
	49	ξ Cygni	B	41.6	45.1	48.4	55.4	58.8	2.1	12.2	15.8	19.0	22.6	21. 1. 2.12		2.26				21. 8. 29.73	+ 0.82
	50	ζ Cygni	B	7.3	10.1	12.9	18.5	21.4	24.4	32.9	35.9	38.5	41.5	21. 8. 24.35		24.54	29.75	5.21		21. 10. 37.30	+ 1.10
	51	τ Cygni	B	...	...	19.5	25.5	28.9	32.0	41.3	44.4	...	...	21. 10. 31.94		32.11				21. 16. 2.78	+ 2.97
	52	α Cephei	B	25.8	31.1	36.2	46.9	52.2	57.5	13.4	18.7	23.9	29.6	21. 15. 57.55		57.59				22. 7. 12.34	+ 2.50
	53	ζ Cephei	B	39.4	44.0	48.6	57.8	2.5	7.1	20.9	25.5	30.0	34.8	22. 7. 7.08	+ 1.03 (- 0.07)	7.15					

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 13 and 16, + 7^m.61 and + 7^m.56.
Corrections for passage of Semidiameter, Nos. 24 and 45, + 74^m.30 and - 0^m.51.

- Observed over wire T with the transit-micrometer set to readings 35^m.872, 35^m.913, 35^m.992, 36^m.139, 36^m.193, 36^m.232, 36^m.372, 36^m.440, 36^m.513, 36^m.656.
- A correction of + 0^m.01, for defect of illumination, has been applied in forming the concluded transit.
- Observed over wire T with the transit-micrometer set to readings 36^m.612, 36^m.390, 36^m.208, 35^m.861, 35^m.681, 34^m.740, 34^m.523, 34^m.380, 33^m.959, 33^m.801.
- Observed over wire T with the transit-micrometer set to readings 36^m.612, 36^m.390, 36^m.208, 35^m.861, 35^m.681, 34^m.740, 34^m.523, 34^m.380, 33^m.959, 33^m.801.
- Observed over wire T with the transit-micrometer set to readings 37^m.528, 37^m.361, 37^m.238, 37^m.122, 36^m.518, 36^m.380, 36^m.268, 36^m.086, 35^m.062, 34^m.921.
- Observed over wire P with the transit-micrometer set to readings 34^m.625, 34^m.767, 34^m.915, 35^m.105, 35^m.652, 35^m.723, 35^m.874, 36^m.011.
- Observed over wire T with the transit-micrometer set to readings 34^m.970, 35^m.092, 35^m.260, 35^m.646, 35^m.764, 36^m.053, 36^m.352, 36^m.843, 37^m.135, 37^m.380.
- Observed over wire T with the transit-micrometer set to readings 35^m.806, 33^m.043, 32^m.494, 32^m.215, 31^m.846, 31^m.545, 30^m.840, 30^m.308, 30^m.105, 29^m.720.

M.O.M. 1896 Feb.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow as of Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).						
				s	s	s	s	s	s	s	s	s	s		h m s	"						
Feb. 24	1	⊙ 1 L.	B	32.6	35.4	37.9	42.5	45.1	48.0	55.2	57.9	0.1	2.9	22.27.47.77	+ 1.03	53.90		5.20	[- 0.01]	22.28.59.09		
	2	⊙ 2 L.	B	44.5	46.7	49.3	54.3	56.9	59.4	6.9	9.4	12.0	14.5	22.29.59.40	(- 0.07)							
	3	η Pegasi	B	44.5	47.2	50.0	55.6	58.5	1.5	10.0	12.5	15.4	18.2	22.38.1.35	[+ 4.05]							
	4	β Pegasi	B	21.0	23.9	26.6	32.1	34.9	37.8	46.1	48.9	51.6	54.4	22.58.37.74		37.94	51.9	5.19	0.27.3.02	+ 2.29		
	5	κ Cassiopeiae	B	25.6	...	...	46.9	52.3	58.0	14.0	...	...	30.0	0.26.57.80		57.83						
	6	ζ Cassiopeiae	B	...	43.1	47.5	55.5	59.9	4.0	16.3	20.2	24.4	...	0.31.3.89		3.98						
	7	α Cassiopeiae	B	3.2	7.3	11.7	20.5	25.0	29.4	42.7	45.9	51.2	56.0	0.34.29.41		29.48	53.97	5.23	0.31.9.17	+ 1.46		
	8	η Cassiopeiae	B	14.1	18.9	23.5	32.3	37.2	41.9	55.5	0.0	4.3	9.3	0.42.41.72		41.79						
	9	ν Andromedæ ...	B	...	...	...	...	...	8.2	11.6	14.6	18.2	...	0.43.58.53		58.68						
	10	γ Cassiopeiae	B	48.9	54.0	58.9	8.7	13.8	18.9	33.8	38.7	43.5	48.9	0.50.18.83		18.88	53.97	5.23	0.50.24.07	+ 1.80		
	11	β Andromedæ ...	B	30.5	33.4	36.5	42.5	45.5	48.6	57.8	0.5	3.6	6.8	1.3.48.58		48.74						
	12	δ Cassiopeiae	B	24.5	29.4	34.2	44.1	49.1	54.0	8.7	13.4	18.3	23.6	1.18.53.95		54.00						
	13	Polaris	B	45.4	49.6	53.7	57.1	0.9	13.9	17.8	22.1	25.2	30.0	1.19.58.43		53.87	54.99	5.08	1.25.55.10	- 0.01		
	14	η Piscium	B	34.3	36.9	39.3	44.5	47.1	49.8	57.4	59.9	2.3	5.1	1.25.49.67		49.91						
	15	ε Cassiopeiae	B	15.4	20.9	26.3	37.2	42.8	48.2	4.7	10.0	15.4	21.1	1.46.48.22		48.24						
	16	β Arietis	B	32.4	35.1	37.8	43.0	45.5	48.2	56.1	58.9	1.4	4.1	1.48.48.26		48.48	53.62	5.14	1.46.53.43	+ 1.34		
	17	50 Cassiopeiae ...	B	...	...	53.9	9.8	17.9	25.9	49.5	57.5	...	...	1.54.25.78		25.69						
	18	γ ¹ Andromedæ ...	B	5.3	8.6	12.0	18.5	22.0	25.2	35.4	38.5	41.9	45.2	1.57.25.27		25.41						
	19	γ ² Andromedæ ...	B	6.2	9.6	12.8	19.4	22.8	26.1	36.1	39.4	42.7	46.0	1.57.26.12		26.26	18.68	5.18	1.57.31.45	+ 0.24		
	20	α Arietis	B	57.1	59.8	2.4	8.0	10.7	13.3	21.3	24.0	26.7	29.5	2.1.13.29		13.50						
	21	β Trianguli	B	57.9	0.8	3.8	9.8	12.8	15.9	24.6	28.0	30.7	33.9	2.3.15.83		16.00						
	22	Bradley 332	B	45.6	52.0	58.1	10.7	17.2	23.7	42.5	48.9	54.9	1.5	2.20.23.53		23.51	51.06	5.15	2.20.28.70	+ 1.09		
	23	γ Ursæ Min. S.P.	B	...	51.5	2.0	12.0	43.0	53.1	3.7	24.2	34.5	...	2.27.42.93		43.54						
	24	θ Persei	B	...	41.6	45.3	52.9	56.5	0.3	11.5	15.3	19.1	...	2.37.0.33		0.44						
	25	μ Ceti	B	59.1	1.6	4.1	...	...	14.2	...	24.0	26.6	29.2	2.39.14.12		14.37	51.06	5.15	2.39.19.56	- 0.44		
	26	η Persei	B	...	...	43.9	52.3	56.9	1.1	14.1	18.6	...	...	2.43.1.17		1.25						
	27	41 Arietis	B	...	...	35.6	41.1	43.9	46.6	55.0	57.7	...	...	2.43.46.66		46.87						
	28	τ Persei	B	23.6	27.5	31.5	39.5	43.9	47.9	0.0	4.0	8.0	12.0	2.46.47.81		47.90	51.06	5.15	2.46.53.09	- 0.02		
	29	β Ursæ Min. S.P.	B	1.7	11.2	20.3	29.4	57.6	6.9	16.1	34.9	44.4	53.7	2.50.57.58		58.15						
	30	λ Ceti	B	48.5	50.9	53.5	58.5	1.0	3.6	11.0	13.4	16.0	18.5	2.54.3.50		3.76						
	31	α Ceti	B	30.8	33.3	35.8	40.6	43.1	45.7	53.1	55.5	58.0	0.4	2.56.45.64		45.91	51.06	5.15	2.56.51.10	- 0.56		
	32	ρ Persei	B	6.8	9.9	13.0	19.3	22.5	25.7	35.2	38.2	41.4	44.6	2.58.25.67		25.83						
	33	β Persei	B	59.5	2.8	6.0	12.4	15.9	19.0	28.8	32.0	35.1	38.5	3.1.19.01		19.16						
	34	κ Persei	B	3.0	6.3	9.9	16.7	20.2	23.9	34.1	37.7	41.0	44.5	3.2.23.75		23.89	51.06	5.15	3.2.29.08	- 0.34		
	35	α Persei	B	26.0	29.9	33.6	41.2	45.0	48.9	0.2	4.0	7.9	11.9	3.16.48.88		48.99						
	36	ξ Tauri	B	12.1	14.6	17.1	22.0	24.6	27.2	34.7	37.1	39.6	42.1	3.21.27.12		27.37						
	37	σ Persei	B	47.5	51.3	54.9	2.1	6.0	9.7	20.6	24.2	27.9	31.6	3.23.9.60		9.72	33.63	5.00	3.23.14.91	- 0.53		
	38	36 Persei	B	...	...	54.9	2.0	5.5	9.1	19.8	23.3	...	...	3.25.9.11		9.24						
	39	ψ Persei	B	39.0	42.7	46.2	53.8	57.5	1.1	12.0	15.8	19.3	23.2	3.29.1.08		1.20						
	40	δ Persei	B	4.5	8.0	11.6	18.9	22.8	26.3	37.4	41.0	44.5	48.4	3.35.26.36		26.48	34.20	4.77	3.35.31.67	- 0.59		
	41	19 Tauri	B	40.0	42.7	45.4	50.8	53.5	56.2	4.5	7.1	9.8	12.7	3.38.56.28		56.49						
	42	20 Tauri	B	17.3	20.0	22.7	28.1	30.9	33.6	41.6	44.4	47.0	49.9	3.39.33.56		33.77						
	43	27 Tauri	B	...	...	...	48.5	51.3	54.0	2.0	...	...	...	3.42.53.96		54.17	33.63	5.00	3.42.59.36	- 0.80		
	44	ζ Persei	B	13.5	16.4	19.4	25.1	28.1	31.0	39.8	42.5	45.4	48.5	3.47.30.98		31.16						
	45	ε Persei	B	...	31.9	35.0	41.4	44.7	48.0	57.6	0.7	3.8	...	3.50.47.91		48.06						
	46	ξ Persei	B	50.0	53.1	56.2	2.2	5.4	8.4	17.6	20.5	23.5	26.8	3.52.8.38		8.54	33.63	5.00	3.52.13.73	- 0.87		
	47	ε Tauri	S	12.6	15.3	18.0	23.2	25.9	28.4	36.3	38.9	41.4	44.0	4.22.28.41		28.63						
	48	Aldebaran	S	37.4	40.0	42.6	47.9	50.5	53.0	0.6	3.2	5.9	8.5	4.29.52.97		53.20						
	49	δ Ursæ Min. S.P.	B	51.0	56.2	1.1	5.8	...	...	...	...	...	...	6.5.27.48		29.43	34.20	4.77	5.19	18.5.34.62		
	50	ε Geminorum	B	12.2	14.9	17.7	23.2	26.0	28.7	36.8	39.6	42.2	45.1	6.37.28.65		28.86						
	51	Sirius	B	14.6	17.1	19.8	25.0	27.8	30.1	38.0	40.4	42.9	45.8	6.40.30.16		30.49						
	52	Cephei 51	B	22.5	38.1	44.6	49.9	14.5	19.7	30.0	46.2	53.3	57.4	6.52.12.01		10.09	14.04	3.95	6.52.15.28	- 28.71		
	53	δ 1 L.	B	42.9	45.6	48.5	54.1	57.1	59.9	8.6	11.4	14.1	17.1	6.51.59.94		0.15						
	54	22 Monocerotis ...	B	14.8	17.1	19.6	24.7	27.1	29.6	37.1	39.4	41.9	44.4	7.6.29.58		29.86						

Correction for passage of Semidiameter, No. 53, + 74".83.

1, 2. Limb boiling.

9. Very faint.

13. Observed over wire T with the transit-micrometer set to readings 35".461, 35".510, 35".551, 35".604, 35".627, 35".730, 35".775, 35".815, 35".845, 35".880.

39, 43, 45, 50, 53, 54. Cloudy.

49. Observed over wire O with the transit-micrometer set to readings 33".852, 33".732, 33".612, 33".500.

52. Observed over wire X with the transit-micrometer set to readings 34".530, 34".837, 34".953, 35".066, 35".542, 35".641, 35".741, 36".160, 36".280, 36".370.

53. Correction to R.A. on true meridian, + 0".01.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GCAW...

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
Feb. 24	1	Piazzi VII. 29.....	B	...	...	39.5	44.5	47.0	49.5	56.9	59.6	...	...	7. 8. 49.51	+ 1.03	49.78			5.19	7. 8. 54.97	- 1.89	
	2	46 Camelopardi...	B	...	...	...	...	...	...	33.1	38.0	7.4	36.2	7. 10. 9.13	(- 0.07)	9.18			[- 0.01]	7. 10. 14.37	- 3.68	
	3	Bradley 1054.....	B	53.6	58.0	2.4	11.0	15.4	20.0	...	...	...	...	7. 14. 19.84	[+ 4.05]	19.92				7. 14. 25.11	- 3.42	
	4	19 Lynceis.....	B	54.9	59.5	3.6	12.2	16.8	21.2	...	...	...	...	7. 14. 21.14		21.22				7. 14. 26.41	- 3.42	
	5	α Geminorum.....	B	56.1	59.1	1.9	7.4	10.1	13.0	21.4	24.0	26.9	29.9	7. 19. 12.99		13.19				7. 19. 18.38	- 2.34	
	6	λ Ursæ Min. S.P..	B	46.0	51.5	59.9	6.5	24.8	30.9	37.6	...	...	...	7. 25. 24.03		30.00				19. 25. 35.19	+ 8.57	
	7	α Geminorum.....	B	2.2	19.6	37.1	...	...	...	12.2	29.6	47.1	...	7. 27. 54.63		54.80				7. 27. 59.99	- 2.47	
	8	Castor.....	B	...	40.2	43.3	49.1	52.1	54.9	3.9	6.6	9.5	...	7. 27. 54.97		55.14	0.34	5.20		7. 28. 0.33	- 2.47	
	9	Procyon.....	B	33.2	35.8	38.1	43.1	45.6	48.1	55.6	58.1	0.5	3.0	7. 33. 48.12		48.38	53.56	5.18		7. 33. 53.57	- 2.01	
	10	α Geminorum.....	B	50.8	53.5	56.1	1.8	4.2	7.1	15.3	18.0	20.7	23.5	7. 38. 7.11		7.32				7. 38. 12.51	- 2.36	
	11	Pollux.....	B	37.2	40.1	42.9	48.4	51.5	54.1	2.6	5.4	8.0	11.1	7. 38. 54.14		54.34	59.57	5.23		7. 38. 59.53	- 2.43	
	12	25 Lynceis.....	B	...	...	38.6	46.0	49.7	53.4	4.2	8.0	...	...	7. 46. 53.33		53.45				7. 46. 58.64	- 3.19	
	13	Groombridge 1391	B	...	56.2	16.1	54.8	14.8	34.5	33.4	52.1	11.6	...	8. 4. 34.33		33.73				8. 4. 38.92	- 14.67	
	14	Jupiter 1 L.....	B	47.1	...	52.3	...	...	2.9	...	13.5	...	18.9	8. 11. 2.94						8. 11. 9.95		
	15	Jupiter 2 L.....	B	50.2	...	55.5	...	...	6.1	...	16.8	...	22.0	8. 11. 6.13		4.76						
	16	Bradley 1306.....	B	5.6	9.5	13.3	21.2	25.3	29.3	41.3	45.2	49.3	53.1	9. 13. 29.33		29.43				9. 13. 34.62	- 3.86	
	17	Piazzi IX. 36.....	B	24.5	28.6	32.4	40.6	44.6	48.6	0.6	4.3	8.2	12.4	9. 13. 48.50		48.60				9. 13. 53.79	- 3.87	
	18	Groomb. 3448 S.P.	B	...	...	...	...	56.7	2.1	7.4	17.9	23.1	28.3	9. 17. 56.72		57.09				21. 18. 2.28	+ 2.98	
	19	Groomb. 3453 S.P.	B	...	2.2	6.0	10.0	21.8	25.8	29.8	37.7	41.5	...	9. 20. 21.82		22.13				21. 20. 27.32	+ 1.87	
	20	Groomb. 3466 S.P.	B	31.3	35.4	39.5	43.4	55.3	59.7	3.5	11.7	15.8	19.9	9. 22. 55.53		55.85				21. 23. 1.04	+ 1.95	
	21	Piazzi XXI. 170 S.P.	B	...	...	...	...	28.8	33.1	37.5	46.0	50.3	54.9	9. 25. 28.83		29.16				21. 25. 34.35	+ 2.19	
	22	Groomb. 3485 S.P.	B	...	...	...	...	39.4	43.4	47.4	55.3	59.5	3.3	9. 27. 39.39		39.70				21. 27. 44.89	+ 1.92	
	23	Groomb. 3500 S.P.	B	21.3	25.4	29.3	33.1	45.0	48.9	53.2	0.7	4.7	8.6	9. 30. 45.00		45.31				21. 30. 50.50	+ 1.89	
	24	Groomb. 3520 S.P.	B	4.0	8.6	12.5	16.6	28.7	33.1	37.4	45.4	49.5	53.3	9. 33. 28.89		29.21				21. 33. 34.40	+ 2.02	
	25	Groomb. 3522 S.P.	B	11.1	15.1	19.1	23.1	35.9	39.6	44.1	52.0	56.1	59.9	9. 33. 35.58		35.90				21. 33. 41.09	+ 2.03	
	26	Lalande 19164 ...	B	50.7	53.3	56.0	1.3	4.2	6.9	14.8	17.5	20.1	22.9	9. 40. 6.78		7.13				9. 40. 12.32	- 2.05	
	27	B.D. + 12° No. 2093	B	...	...	...	...	...	47.5	49.9	52.3	7.5	22.7	9. 41. 37.29		37.53				9. 41. 42.72	- 2.42	
	28	R Leonis.....	B	39.7	...	44.9	...	...	54.9	...	4.9	...	10.1	9. 41. 54.90		55.14				9. 42. 0.33	- 2.42	
	29	Groomb. 3587 S.P.	B	...	...	...	...	15.4	19.4	23.6	32.0	36.1	40.2	9. 46. 15.22		15.54				21. 46. 20.73	+ 2.11	
	30	Groomb. 3617 S.P.	B	...	...	...	...	44.5	48.6	52.6	0.8	4.8	9.1	9. 51. 44.46		44.78				21. 51. 49.97	+ 2.03	
	31	Groomb. 3626 S.P.	B	...	...	2.0	6.0	17.5	21.2	25.3	32.9	...	...	9. 53. 17.46		17.76				21. 53. 22.95	+ 1.82	
	32	Groomb. 3632 S.P.	B	...	...	...	...	52.3	56.1	0.2	8.0	11.4	15.6	9. 53. 52.36		52.66				21. 53. 57.85	+ 1.83	
	33	Lacaille 4132.....	B	45.6	48.2	51.0	56.6	59.5	2.2	...	...	...	...	10. 0. 2.23		2.61				10. 0. 7.80	- 2.05	
	34	Lacaille 4134.....	B	8.3	11.1	14.0	19.4	22.2	25.1	33.5	36.1	38.9	42.0	10. 0. 25.07		25.45				10. 0. 30.64	- 2.05	
	35	Groomb. 3705 S.P.	B	46.7	50.9	54.9	...	...	...	...	26.9	30.9	35.1	10. 7. 10.88		11.19				22. 7. 16.38	+ 1.96	
	36	Groomb. 3708 S.P.	B	10.1	14.2	18.1	...	...	...	...	50.3	54.1	58.8	10. 7. 34.25		34.56				22. 7. 39.75	+ 1.97	
	37	Piazzi XXII. 61 S.P.	B	...	...	15.5	19.8	33.1	37.9	42.1	51.3	...	...	10. 12. 33.26		33.60				22. 12. 38.79	+ 2.39	
	38	Groomb. 3738 S.P.	B	5.1	9.4	13.1	17.2	29.4	33.5	37.4	45.2	49.4	53.6	10. 14. 29.31		29.62				22. 14. 34.81	+ 1.98	
	39	Groomb. 3740 S.P.	B	32.2	36.6	40.4	44.4	56.5	0.6	4.3	12.2	16.6	20.5	10. 14. 56.41		56.72				22. 15. 1.91	+ 1.98	
	40	Groomb. 3755 S.P.	B	31.4	35.8	40.1	44.4	57.4	1.6	5.9	14.4	18.7	23.0	10. 18. 57.25		57.58				22. 19. 2.77	+ 2.20	
	41	Groomb. 3763 S.P.	B	11.4	15.8	20.1	24.5	37.2	41.3	45.8	54.1	58.6	2.8	10. 19. 37.14		37.47				22. 19. 42.66	+ 2.19	
	42	Groomb. 3768 S.P.	B	23.1	27.4	...	...	...	...	...	10.1	14.5	...	10. 20. 48.76		49.09				22. 20. 54.28	+ 2.18	
	43	ρ Leonis.....	B	2.0	4.4	6.9	12.0	14.5	17.0	24.7	27.1	29.6	32.1	10. 27. 17.04		17.29	22.49	5.20		10. 27. 22.48	- 2.39	
	44	Groomb. 3829 S.P.	B	...	...	...	...	27.0	30.6	34.4	42.1	46.0	49.7	10. 31. 26.86		27.16				22. 31. 32.35	+ 1.77	
	45	Groombridge 1669	B	44.0	50.9	58.0	11.4	18.3	25.7	46.2	53.1	59.7	7.1	10. 34. 25.47		25.42				10. 34. 30.61	- 6.32	
	46	Groomb. 3862 S.P.	B	33.0	37.4	41.4	45.6	58.1	2.0	6.2	14.6	18.8	23.0	10. 37. 57.99		58.30				22. 38. 3.49	+ 2.05	
	47	Groomb. 3872 S.P.	B	...	...	...	...	...	...	5.8	14.4	18.6	23.1	10. 38. 56.33		56.67				22. 39. 1.86	+ 2.27	
	48	Groomb. 3886 S.P.	B	...	...	...	...	5.5	10.0	14.0	22.5	26.6	31.1	10. 42. 5.55		5.87				22. 42. 11.06	+ 2.12	
	49	Groomb. 3890 S.P.	B	...	...	...	...	46.8	51.1	55.4	4.0	8.0	12.0	10. 42. 46.85		47.17				22. 42. 52.36	+ 2.11	
	50	Bradley 1508.....	B	...	...	...	...	...	...	20.0	32.0	43.9	56.9	10. 51. 43.25		42.97				10. 51. 48.16	- 10.48	
	51	Groombridge 1708	B	...	...	...	...	...	...	36.3	48.6	0.6	12.9	10. 52. 0.03		59.75				10. 52. 4.94	- 10.40	
	52	Groomb. 1735..R.	B	59.5	12.1	24.0	47.9	0.8	12.8	...	...	...	...	11. 2. 12.95		12.71				11. 2. 17.90	- 10.39	
	53	Groomb. 1735.....	B	...	...	...	...	...	...	49.5	1.4	13.4	26.1	11. 2. 12.57		12.29				11. 2. 17.48	- 10.39	
	54	δ Crateris.....	B	49.6	52.1	54.8	59.9	2.5	5.0	12.6	15.1	17.7	20.3	11. 14. 4.97		5.29	10.48	5.19		11. 14. 10.48	- 2.09	

1, 3, 4, 6, 7, 8, 9, 12, 13. Cloudy.

6. Observed over wire R with the transit-micrometer set to readings 35° 310, 35° 257, 35° 200, 35° 138, 34° 990, 34° 950, 34° 903.

7. Observed over wires M, N, O, X, Y and Z.

15. A correction of + 0° 01, for defect of illumination, has been applied in forming the concluded transit.

2. Observed over wires W, X, Y and Z.

27. Observed over wires V, W, X, Y and Z.

MONTH AND DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and (Lossing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Feb. 24	1	δ Crateris... (E&E)	B	...	28.5	43.6	59.0	14.4	29.5	...	...	...	...	11. 14. 4.99	+ 1.03	5.31	10.48	5.17	5.19	.....	.....
	2	71 Leonis	B	...	...	...	...	56.9	59.5	7.3	10.0	12.4	15.1	11. 16. 59.51	(- 0.07)	59.74	13.67	5.17	[- 0.01]	11. 17. 4.93	- 2.49
	3	β Virginis	B	58.6	1.0	3.5	8.4	10.9	13.4	20.9	23.2	25.7	28.3	11. 45. 13.40	[+ 4.05]	13.67	18.84	5.17	.....	11. 45. 18.86	- 2.20
	4	β Virginis.. (E&E)	B	...	37.9	52.5	7.4	22.4	37.0	...	...	...	...	11. 45. 13.39	.....	13.66	18.84	5.18	.....	.....	.....
Feb. 25	5	Polaris	D	40.8	52.5	2.2	11.9	26.4	33.8	44.4	55.2	4.1	13.3	1. 19. 56.09	[+ 3.46]	52.63	56.09	3.46	5.10	.....	.....
	6	α Arietis	D	57.4	59.9	2.5	8.1	10.6	13.5	21.4	24.1	26.8	29.5	2. 1. 13.39	.....	13.58	18.64	5.06	[- 0.02]	2. 1. 18.68	- 0.10
	7	α Ceti	D	30.7	33.3	35.9	...	...	45.8	...	55.5	58.1	0.6	2. 56. 45.71	.....	45.95	51.05	5.10	.....	2. 56. 51.05	- 0.55
	8	τ Tauri	D	39.9	42.4	45.1	50.4	53.3	56.0	4.0	6.6	9.4	12.1	4. 35. 55.93	.....	56.12	1.26	5.14	.....	4. 36. 1.22	- 1.18
	9	ι Aurigæ	D	51.5	54.3	57.5	3.5	6.2	9.2	18.0	21.0	23.9	27.0	4. 50. 9.22	.....	9.38	14.51	5.13	.....	4. 50. 14.48	- 1.34
	10	W. B. (2) IV. 1214-5	D	33.9	36.3	39.0	44.3	47.0	49.6	57.6	0.1	2.8	5.5	4. 55. 49.62	.....	49.81	...	...	.....	4. 55. 54.91	- 1.31
	11	Rigel	D	13.2	15.7	18.1	23.1	25.8	28.1	...	...	...	...	5. 9. 28.17	.....	28.44	33.56	5.12	.....	5. 9. 33.54	- 1.22
	12	35 Draconis S.P.	D	...	...	...	...	...	8.4	19.9	42.0	52.7	4.0	5. 53. 57.83	.....	58.34	...	...	.....	17. 54. 3.44	+ 3.08
	13	δ Ursæ Min. S.P.	D	17.7	31.5	41.2	51.6	1.3	12.1	20.8	32.4	43.8	52.0	6. 5. 28.45	.....	29.95	34.49	4.54	.....	.....	.....
	14	γ Geminorum ..	D	23.4	25.8	28.3	33.6	36.1	38.6	46.5	49.0	51.5	54.2	6. 31. 38.71	.....	38.92	44.05	5.13	.....	6. 31. 44.01	- 1.85
	15	W. B. VI. 990 ...	D	12.3	15.0	17.5	22.5	25.1	27.7	35.5	37.9	40.2	43.1	6. 34. 27.69	.....	27.98	...	...	.....	6. 34. 33.07	- 1.59
	16	Sirius	D	14.6	17.4	19.9	25.1	27.8	30.2	38.0	40.5	43.0	45.8	6. 40. 30.20	.....	30.53	...	...	.....	6. 40. 35.62	- 1.59
	17	Groomb. 2719 S.P.	D	...	...	...	...	46.5	13.2	22.0	31.1	48.9	58.0	6. 48. 31.16	.....	13.60	...	...	.....	18. 48. 18.69	+ 3.68
	18	ζ Geminorum ...	D	37.5	40.0	42.6	47.9	50.5	53.1	1.2	3.7	6.5	9.1	6. 57. 53.22	.....	53.42	58.47	5.05	.....	6. 57. 58.51	- 2.06
	19	Groomb. 2781 S.P.	D	...	...	...	...	...	...	14.5	22.6	27.4	31.9	7. 6. 5.65	.....	5.92	...	...	.....	19. 6. 11.01	+ 1.31
	20	Groomb. 2815 S.P.	D	...	...	30.0	33.8	45.3	49.0	53.0	0.2	...	...	7. 15. 45.20	.....	45.44	...	...	.....	19. 15. 50.53	+ 1.06
	21	λ Ursæ Min. S.P.	D	3.6	12.2	20.2	49.4	57.1	12.3	35.8	43.1	53.2	13.5	7. 25. 26.12	.....	30.69	34.72	4.03	.....	.....	.....
	22	κ Geminorum ...	D	50.9	53.6	56.1	1.8	4.4	7.1	15.5	18.0	20.8	23.4	7. 38. 7.17	.....	7.36	...	...	.....	7. 38. 12.45	- 2.35
	23	Groombridge 119	D	31.5	48.2	59.0	31.8	42.6	12.2	21.4	40.1	48.5	4.2	7. 55. 6.78	.....	2.68	...	...	.....	7. 55. 7.77	- 92.08
	24	δ 1 L.	D	6.3	9.0	11.9	17.5	20.2	22.9	31.2	34.0	36.9	39.8	7. 55. 22.95	.....	23.14	...	...	.....	7. 56. 42.38	.....
	25	γ Cancri	D	22.9	25.5	28.2	33.5	36.1	38.8	46.9	49.4	52.0	54.9	8. 26. 38.83	.....	39.03	44.14	5.11	.....	8. 26. 44.12	- 2.45
	26	γ Cancri	D	57.2	59.9	2.5	8.0	10.6	13.3	21.5	24.0	26.5	29.3	8. 37. 13.29	.....	13.48	18.56	5.08	.....	8. 37. 18.57	- 2.51
	27	Groomb. 3290 S.P.	D	56.0	0.0	3.9	...	19.4	...	...	35.3	39.5	43.0	8. 44. 19.57	.....	19.81	...	...	.....	20. 44. 24.90	+ 1.67
Feb. 26	28	Procyon	H	33.5	36.0	...	43.6	...	48.5	...	...	...	...	7. 33. 48.49	.....	48.73	53.54	4.81	4.90	.....	.....
	29	Pollux	H	...	40.4	43.1	48.8	51.6	54.4	2.9	5.6	8.2	...	7. 38. 54.40	.....	54.58	59.55	4.97	[- 0.02]	.....	.....
	30	Venus 2 L.	AC	34.2	36.9	39.7	44.7	47.5	50.1	58.0	0.6	3.0	5.9	20. 27. 50.07	(- 1.11)	50.34	...	...	.....	20. 27. 54.71	.....
Feb. 27	31	⊙ 1 L.	AC	52.9	55.4	58.0	3.0	5.8	8.1	15.6	18.1	20.6	23.2	22. 39. 8.08	.....	13.84	...	...	.....	22. 40. 18.72	.....
	32	⊙ 2 L.	AC	4.1	6.8	9.1	14.1	16.6	19.0	26.6	29.2	31.6	34.1	22. 41. 19.13	.....	8.20	13.14	4.94	5.10	.....	.....
	33	Cephei 51	AC	21.8	32.0	46.5	56.2	36.0	30.9	36.3	45.4	55.3	14.2	6. 52. 10.80	.....	1.46	...	...	[- 0.01]	8. 10. 6.56	.....
	34	Jupiter 1 L.	AC	43.9	...	49.1	...	...	59.8	...	10.3	...	15.7	8. 9. 59.76	.....	...	...	...	.....	.....	.....
	35	Jupiter 2 L.	AC	46.9	...	52.2	...	...	3.0	...	13.5	...	18.8	8. 10. 2.89	.....	...	...	...	.....	.....	.....
Feb. 28	36	β Trianguli	B	...	...	...	...	12.9	16.0	25.0	28.0	30.9	34.1	2. 3. 15.99	(- 3.22)	15.92	...	...	5.09	2. 3. 21.01	+ 0.10
	37	β Persei	B	59.8	2.9	6.2	12.8	16.1	19.3	29.2	32.2	35.5	38.9	3. 1. 19.30	[+ 4.46]	19.18	...	...	.....	3. 1. 24.27	- 0.29
	38	Piazzi IV. 69	B	7.5	10.4	13.5	19.2	22.1	25.1	33.6	36.4	39.4	42.2	4. 19. 24.95	.....	24.91	...	...	.....	4. 19. 30.00	- 1.03
	39	ε Tauri	B	...	...	...	23.1	25.9	28.3	36.2	38.9	41.4	44.1	4. 22. 28.40	.....	28.45	33.57	5.12	.....	4. 22. 33.54	- 1.02
	40	Piazzi IV. 99	B	...	...	22.0	27.1	29.7	32.2	40.0	42.4	...	...	4. 24. 32.24	.....	32.31	...	...	.....	4. 24. 37.40	- 1.02
	41	Piazzi IV. 102 ...	B	...	...	35.1	...	...	45.5	53.2	55.8	58.3	1.0	4. 24. 45.49	.....	45.56	...	...	.....	4. 24. 50.65	- 1.02
	42	Groombridge 841	B	...	...	10.1	22.6	29.1	35.6	54.4	0.9	...	...	4. 28. 35.47	.....	34.92	...	...	.....	4. 28. 40.01	- 1.39
	43	g Draconis S.P....	B	31.1	37.4	43.0	48.6	6.1	12.0	17.5	29.6	35.0	40.9	4. 40. 6.10	.....	6.79	...	...	.....	16. 40. 11.88	- 0.45
	44	π Orionis	B	52.6	55.1	57.5	2.5	5.1	7.6	...	...	...	...	4. 44. 7.55	.....	7.67	...	...	.....	4. 44. 12.76	- 1.12
	45	ι Aurigæ	B	...	...	57.5	3.5	6.4	9.5	18.2	21.2	...	...	4. 50. 9.39	.....	9.33	14.46	5.13	.....	4. 50. 14.42	- 1.29
	46	h Draconis S.P....	B	...	...	57.9	3.7	21.5	27.4	33.4	45.3	...	...	4. 55. 21.51	.....	22.21	...	...	.....	16. 55. 27.30	- 0.14
	47	Groomb. 2401 S.P.	B	...	...	...	...	...	10.1	16.6	23.1	2.0	...	4. 55. 44.12	.....	44.90	...	...	.....	16. 55. 49.99	- 0.03
	48	W. B. (2) IV. 1397-8	B	14.2	...	19.5	24.9	27.5	30.1	38.1	40.6	...	46.0	5. 2. 30.12	.....	30.15	...	...	.....	5. 2. 35.24	- 1.31
	49	Capella	B	35.8	39.3	42.7	49.9	53.4	56.9	7.7	11.1	14.6	18.2	5. 8. 56.98	.....	56.81	...	...	.....	5. 9. 1.90	- 1.61
	50	Rigel	B	...	...	...	...	...	...	35.9	38.2	40.6	43.4	5. 9. 28.30	.....	28.52	33.52	5.00	.....	5. 9. 33.61	- 1.18

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 1 and 4, + 5^m.99 and + 5^m.95.
 Corrections for passage of Semidiameter, Nos. 24 and 30, + 74^s.14 and - 0^s.51.

2, 3, 4, 42, 44, 45, 48. Cloudy.

5. Observed over wire T with the transit-micrometer set to readings 34^m.410, 34^m.522, 34^m.584, 34^m.680, 34^m.823, 34^m.872, 34^m.980, 35^m.071, 35^m.142, 35^m.249.

10, 27. Observed in partially illuminated field.

13. Observed over wire T with the transit-micrometer set to readings 37^m.305, 36^m.955, 36^m.766, 36^m.462, 36^m.246, 35^m.957, 35^m.780, 35^m.509, 35^m.247, 35^m.038.

21. Observed over wire S with the transit-micrometer set to readings 35^m.900, 35^m.821, 35^m.776, 35^m.563, 35^m.490, 35^m.424, 35^m.225, 35^m.161, 35^m.108, 34^m.947.

23. Observed over wire R with the transit-micrometer set to readings 35^m.131, 35^m.234, 35^m.342, 35^m.559, 35^m.658, 35^m.863, 35^m.955, 36^m.108, 36^m.150, 36^m.257.

24. Correction to R.A. on true meridian, + 0^m.01.

33. Observed over wire O with the transit-micrometer set to readings 34^m.729, 34^m.962, 35^m.235, 35^m.446, 36^m.197, 37^m.277, 38^m.576, 38^m.729, 38^m.925, 39^m.314.

35. A correction of + 0^m.01, for defect of illumination, has been applied in forming the concluded transit.

30. Very unsteady.

47. Observed over wires Q, P, O and N.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.	
															Collimation. (Level).	#							
																							[Azimuth].
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.											h	m	s
Feb. 28	1	Carrington 798...	B	...	...	...	9.1	25.7	42.0	31.6	...	...	...	5.38.42.15	+ 1.03	40.39			5.09	5.38.45.48	- 5.91		
	2	W. B. (2) V. 1426	B	11.4	14.1	16.7	22.1	24.9	27.7	...	...	...	...	5.45.27.57	(- 3.22)	27.58			[- 0.01]	5.45.32.67	- 1.62		
	3	α Hydræ	B	10.3	12.8	15.4	20.2	22.9	25.4	32.9	35.4	37.9	40.4	9.22.25.37	[+ 4.46]	25.59	30.70	5.11		9.22.30.68	- 2.13		
	4	θ Ursæ Majoris...	B	29.2	33.1	37.1	45.2	49.3	53.2	5.4	9.3	13.4	17.6	9.25.53.30		53.04				9.25.58.13	- 3.90		
	5	Groomb. 1569 (1st Star)	B	34.6	37.8	40.9	...	...	...	...	6.5	9.6	13.1	9.34.53.76		53.65				9.34.58.74	- 3.20		
	6	Groomb. 1569 (2nd Star)	B	...	...	...	47.8	50.9	54.1	3.6	...	...	...	9.34.54.11		54.00				9.34.59.09	- 3.20		
	7	28 Ursæ Majoris...	B	...	...	...	44.5	50.3	56.0	13.1	...	...	...	9.37.56.00		55.52				9.38.0.61	- 5.33		
	8	ε Leonis	B	38.1	40.9	43.6	48.9	51.8	54.3	2.6	5.2	8.0	10.8	9.39.54.43		54.45	59.58	5.13		9.39.59.54	- 2.69		
	9	B.D.+12° No. 2093	B	22.2	24.8	27.4	...	...	37.5	...	47.6	50.0	52.6	9.41.37.45		37.54				9.41.42.63	- 2.43		
	10	R Leonis	B	40.0	42.5	45.0	...	...	55.1	...	5.2	7.7	10.2	9.41.55.11		55.20				9.42.0.29	- 2.43		
	11	Groombridge 1588	B	...	...	6.9	15.4	19.6	24.0	36.9	41.0	...	...	9.49.23.99		23.70				9.49.28.79	- 4.19		
	12	Bradley 1393	B	...	...	...	47.2	50.0	52.3	...	...	22.4	37.4	9.50.52.37		52.48				9.50.57.57	- 2.40		
	13	Regulus	B	...	...	...	42.4	44.8	47.4	54.9	57.4	0.0	2.4	10.2.47.35		47.44	52.46	5.02		10.2.52.53	- 2.46		
	14	ζ Cephei S.P.	B	38.6	43.5	48.0	52.4	6.5	11.1	15.8	24.9	29.4	34.1	10.7.6.41		6.93				22.7.11.02	+ 2.46		
	15	Groomb. 3724 S.P.	B	...	...	8.0	12.6	26.8	31.8	36.5	46.1	...	...	10.9.26.95		27.50				22.9.32.59	+ 2.58		
	16	Piazzi X. 26	B	27.6	34.8	41.4	55.4	2.6	9.4	30.7	37.4	44.2	51.6	10.13.9.54		8.88				10.13.13.97	- 6.47		
	17	44 Leonis	B	28.3	31.0	33.5	...	...	...	...	...	...	13.8	10.19.43.55		43.66				10.19.48.75	- 2.41		
	18	ρ Leonis	B	2.2	4.6	7.2	12.2	14.8	17.4	24.8	27.2	29.7	32.2	10.27.17.24		17.35	22.51	5.16		10.27.22.44	- 2.41		
	19	δ 2 L.	B	25.7	28.1	30.8	36.0	38.4	40.9	48.7	51.2	53.8	56.4	10.55.41.01		41.14				10.54.36.32	- 2.41		
	20	ψ Ursæ Majoris...	B	...	...	...	40.5	44.0	47.5	58.0	1.5	4.9	8.6	11.3.47.52		47.36				11.3.52.45	- 3.46		
	21	β Leonis	B	27.1	29.8	32.2	37.4	40.0	42.6	50.2	52.8	55.2	58.0	11.43.42.54		42.61	47.67	5.06		11.43.47.70	- 2.43		
	22	β Virginis	B	...	1.1	3.7	8.6	11.1	13.7	...	...	...	28.7	11.45.13.63		13.78	18.90	5.12		11.45.18.87	- 2.26		
	23	γ Ursæ Majoris...	B	...	59.7	4.0	12.4	16.8	20.9	...	...	...	11.9	11.48.20.97		20.70				11.48.25.79	- 3.91		
Feb. 29	24	Groombridge 1815	DE	...	...	17.8	24.3	27.9	31.3	41.4	44.6	...	...	11.34.31.23		31.09			5.02	11.34.36.11	- 3.26		
	25	ξ Virginis	DE	37.6	40.1	42.5	47.6	50.1	52.6	0.1	2.6	5.1	7.7	11.39.52.61		52.72				11.39.57.74	- 2.35		
	26	β Leonis	DE	27.3	29.8	32.3	37.5	40.1	42.6	50.2	52.9	55.4	58.0	11.43.42.62		42.69	47.68	4.99		.....	.....		
	27	β Virginis	DE	59.0	1.4	3.9	8.7	11.2	13.8	21.2	23.7	26.1	28.6	11.45.13.77		13.92	18.91	4.99		.....	.....		
	28	δ 2 L.	DE	...	...	...	21.1	23.7	26.2	34.0	36.2	38.9	41.6	11.51.26.24		26.42				11.50.21.95	- 14.07		
	29	Radcliffe 2790 ...	DE	...	...	...	57.4	16.0	11.1	28.9	47.1	6.2	11.58.15.79		13.80				11.58.18.82	- 14.07			
	30	ε Corvi	DE	27.2	29.9	32.4	37.8	40.4	43.1	51.2	53.9	56.4	59.5	12.4.43.19		43.50	48.53	5.03		.....	.....		
	31	6 Comæ	DE	25.3	27.9	30.2	35.3	38.0	40.6	48.3	50.9	53.4	56.0	12.10.40.60		40.67				12.10.45.68	- 2.38		
	32	Piazzi XII. 68 ...	DE	31.4	34.0	36.8	42.2	45.0	47.9	56.1	59.0	1.6	4.3	12.18.47.84		47.84				12.18.52.85	- 2.57		
	33	Piazzi XII. 91 ...	DE	13.3	15.9	18.2	23.2	25.8	28.2	35.8	38.1	40.5	43.1	12.22.28.22		28.41				12.22.33.42	- 2.12		
	34	21 Virginis	DE	6.3	9.0	11.5	16.3	19.0	21.5	29.0	31.5	34.0	36.5	12.28.21.47		21.69				12.28.26.70	- 2.08		
35	ρ Virginis	DE	19.2	21.9	24.1	29.2	31.9	34.2	41.9	44.2	46.9	49.5	12.36.34.31		34.41	39.43	5.02		.....	.....			
Mar. 1	36	β Tauri	B	22.4	25.3	28.1	33.8	36.5	39.4	48.0	50.6	53.3	56.2	5.19.39.37	[+ 5.45]	39.38	44.46	5.08	5.05	.....	.....		
	37	δ Orionis	B	22.9	25.2	27.8	32.6	35.2	37.7	45.0	47.5	49.9	52.4	5.26.37.63		37.85	42.78	4.93		.....	.....		
	38	δ Ursæ Min. S.P..	B	43.5	51.1	0.0	8.2	16.2	33.6	41.8	50.1	58.2	6.5	6.5.24.92		30.56	36.18	5.62		18.5.35.61	+ 14.47		
	39	Cephei 51	B	23.5	33.8	44.0	54.0	4.8	24.4	34.2	45.4	55.2	6.0	6.52.14.53		7.98				6.52.13.03	- 26.69		
	40	ε Canis Majoris...	B	11.4	14.1	17.0	22.6	25.4	28.2	36.8	39.6	42.2	45.2	6.54.28.26		28.70	33.75	5.05		.....	.....		
	41	ζ Geminorum ...	B	37.4	40.0	42.6	48.0	50.6	53.2	1.2	3.9	6.4	9.2	6.57.53.26		53.33	58.42	5.09		.....	.....		
	42	γ Canis Majoris ..	B	44.0	46.5	49.0	54.1	56.8	59.3	7.0	9.5	12.1	14.8	6.58.59.32		59.64	4.73	5.09		.....	.....		
	43	Bradley 1672	H	9.7	18.9	36.9	0.4	12.0	43.4	50.6	8.1	18.0	32.5	12.15.26.41	(- 2.58)	16.90			4.89	12.15.21.78	- 57.79		
	44	Piazzi XII. 91 ...	H	13.4	15.9	18.3	23.3	25.9	28.2	35.9	38.1	40.6	43.2	12.22.28.29		28.56				12.22.33.44	- 2.14		
	45	21 Virginis	H	6.4	9.0	11.5	16.4	19.0	21.6	29.1	31.5	34.0	36.5	12.28.21.51		21.81				12.28.26.69	- 2.09		
	46	ρ Virginis	H	19.4	21.8	24.2	29.4	32.0	34.4	42.0	44.4	46.9	49.7	12.36.34.43		34.61	39.45	4.84		.....	.....		
	47	35 Virginis	H	15.8	18.2	20.8	25.6	28.2	30.8	38.1	40.6	43.0	45.8	12.42.30.70		30.92	35.79	4.87		.....	.....		
	48	δ 2 L.	H	52.9	55.4	58.0	3.1	5.9	8.2	16.1	18.6	21.2	24.0	12.47.8.35		8.65				12.46.3.65	- 2.00		
	49	δ Virginis	H	4.0	6.5	8.9	14.0	16.4	18.9	26.2	28.9	31.1	33.8	12.50.18.88		19.10	23.98	4.88		.....	.....		
	50	50 Virginis	H	0.2	2.8	5.4	10.2	12.8	15.4	22.9	25.4	28.0	30.4	13.4.15.36		15.66				13.4.20.54	- 2.00		
	51	Polaris S.P.	H	43.1	51.1	58.1	19.1	28.8	35.5	50.0	57.9	4.5	23.3	13.19.33.91		47.58				1.19.52.46	+ 61.81		
	52	τ Boötis	H	0.6	3.1	5.8	11.0	13.7	16.2	24.0	26.4	28.9	31.9	13.42.16.17		16.30	21.23	4.93		.....	.....		

Corrections for passage of Semidiameter, Nos. 19, 28, and 48, — 69°.92: — 69°.50: and — 69°.89.

February 29. Clock Hardy removed to be cleaned.

1, 2, 4, 12, 13, 17, 20, 21, 22, 23. Cloudy.

17. Observed over wires O, P, Q and Y.

23. Observed over wires P, Q, R, S, T and Y.

28. Observed over wire T with the transit-micrometer set to readings 36°.600, 36°.400, 36°.200, 36°.000, 35°.800, 35°.400, 35°.200, 35°.000, 34°.800, 34°.600.

39. Observed over wire T with the transit-micrometer set to readings 34°.600, 34°.800, 35°.000, 35°.200, 35°.400, 35°.800, 36°.000, 36°.200, 36°.400, 36°.600.

43. Observed over wire T with the transit-micrometer set to readings 34°.639, 34°.772, 35°.000, 35°.280, 35°.440, 35°.809, 35°.903, 36°.112, 36°.228, 36°.410.

51. Observed over wire O with the transit-micrometer set to readings 34°.705, 34°.621, 34°.550, 34°.378, 34°.302, 34°.210, 34°.111, 34°.042, 33°.973, 33°.822.

12. Observed over wires R, S, T, Y and Z.

19. 28. 48. Correction to R.A. on true meridian, + 0°.01.

MONTH AND DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). (Azimuth).	Seconds of Transit corrected.	Tabular R.A. of Known Stars.	Clock apparently slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Mar. 1	1	72 Ophiuchi.....	EB	...	...	...	...	...	...	28.0	30.5	33.0	35.5	18. 2. 20.48	+ 1.03	20.66	25.62	4.96	4.98	18. 2. 25.67	- 0.52
	2	δ Ursæ Minoris...	EB	26.5	33.4	42.0	2.2	9.5	21.8	27.5	42.1	49.5	57.4	18. 5. 36.19	(- 2.58)	31.44	36.36	4.92	[+ 0.04]	18. 5. 36.45	+ 14.29
	3	η Serpentis	EB	36.0	38.6	41.0	46.0	48.5	50.9	58.5	0.9	3.4	6.0	18. 15. 50.99	[+ 5.45]	51.25	56.19	4.94		18. 15. 56.26	- 0.56
	4	α Lyre	EB	1.1	4.1	7.2	13.5	16.8	20.0	29.5	32.6	35.6	39.1	18. 33. 19.96		19.93	24.88	4.95		18. 33. 24.94	+ 0.13
Mar. 2	5	δ Orionis	D	22.8	25.2	27.7	32.6	35.2	37.7	45.1	47.5	49.9	52.5	5. 26. 37.63	+ 0.77	37.83	42.77	4.94	4.94	.....	
	6	α Leporis	D	48.9	51.4	54.0	59.4	2.0	4.4	12.1	14.8	17.3	20.1	5. 28. 4.45	(- 3.01)	4.77	9.72	4.95		.....	
	7	ε Orionis	HA	37.4	...	42.2	47.1	49.6	52.1	59.5	2.0	...	7.0	5. 30. 52.12		52.34	57.41	5.07	5.06	.....	
	8	α Orionis	EB	13.6	16.1	18.5	23.6	26.1	28.6	36.1	38.5	41.1	43.7	5. 49. 28.60		28.75	33.90	5.15	5.02	5. 49. 33.78	- 1.45
	9	59 Orionis	EB	...	...	...	51.6	54.0	56.5	3.9	6.3	8.7	11.5	5. 52. 56.50		56.70				5. 53. 1.73	- 1.42
	10	Groombridge 1062	EB	...	12.2	17.9	28.9	34.4	40.0	56.5	2.0	7.8	...	5. 56. 40.00		39.51				5. 56. 44.54	- 2.78
	11	5 Geminorum	EB	50.0	52.6	55.2	0.7	3.6	6.1	14.3	17.1	19.9	22.7	6. 5. 6.23		6.27				6. 5. 11.30	- 1.72
	12	δ Ursæ Min. S.P.	EB	41.7	3.2	11.7	18.4	26.0	31.6	39.0	46.1	52.3	2.2	6. 5. 26.28		32.03	36.54	4.51		18. 5. 37.06	+ 14.11
	13	μ Geminorum	EB	...	...	...	...	34.0	36.8	44.9	47.5	50.0	52.9	6. 16. 36.77		36.83	41.86	5.03		6. 16. 41.86	- 1.78
	14	8 Monocerotis	EB	...	...	...	6.9	9.4	11.9	19.1	21.6	24.0	26.8	6. 18. 11.80		11.97				6. 18. 17.00	- 1.58
	15	10 Monocerotis...	EB	30.8	33.4	35.9	40.7	43.1	45.8	53.2	55.6	58.1	0.8	6. 22. 45.75		45.99				6. 22. 51.02	- 1.52
	16	13 Monocerotis...	EB	58.2	0.7	3.3	8.1	10.7	13.1	20.8	23.2	25.6	28.2	6. 27. 13.20		13.35				6. 27. 18.38	- 1.65
	17	γ Geminorum	EB	23.4	26.0	28.5	33.7	36.2	38.9	46.5	49.1	51.6	54.2	6. 31. 38.82		38.92	43.97	5.05		6. 31. 43.95	- 1.77
	18	Piazzi VI. 203....	EB	26.2	28.8	31.1	36.0	38.5	40.9	48.3	50.9	53.3	56.0	6. 35. 41.01		41.21				6. 35. 46.24	- 1.63
	19	Sirius	EB	14.7	17.2	19.9	25.0	27.6	30.1	37.9	40.5	43.0	45.8	6. 40. 30.18		30.50				6. 40. 35.53	- 1.50
	20	Cephei 51	EB	45.6	15.6	31.3	48.9	57.6	12.9	51.7	59.9	21.4	...	6. 52. 12.12		5.46				6. 52. 10.49	- 26.29
	21	Groombridge 1304	EB	...	...	56.7	12.1	20.1	28.1	...	59.3	...	...	7. 20. 28.00		27.17				7. 20. 32.20	- 5.40
	22	β Canis Minoris..	B	...	...	...	...	...	27.5	34.9	37.4	39.9	42.3	7. 21. 27.41		27.56	32.55	4.99	5.03	.....	
	23	W. B. (2) VII. 703	EB	17.6	20.1	23.0	28.2	31.0	33.7	...	...	...	...	7. 26. 33.67		33.72			5.02	7. 26. 38.75	- 2.19
	24	W. B. (2) VII. 704	EB	...	...	...	...	...	...	41.9	44.4	47.1	50.0	7. 26. 33.77		33.82				7. 26. 38.85	- 2.19
	25	λ Ursæ Min. S.P.	EB	12.3	20.7	40.6	54.3	19.1	29.5	53.9	6.8	28.0	39.0	7. 25. 17.48		36.17				19. 25. 41.20	+ 79.86
	26	Castor	B	...	...	...	49.3	52.2	55.2	4.0	6.7	9.7	12.7	7. 27. 55.16		55.13	0.26	5.13	5.03	.....	
	27	κ Geminorum	EB	51.0	53.8	56.3	2.0	4.5	7.4	15.5	18.2	20.8	23.6	7. 38. 7.32		7.36			5.02	7. 38. 12.39	- 2.29
	28	Pollux	EB	37.6	40.3	43.0	48.8	51.5	54.4	2.9	5.6	8.3	11.4	7. 38. 54.39		54.40	59.49	5.09		7. 38. 59.43	- 2.35
	29	Jupiter 1 L.	EB	29.1	...	34.4	...	...	...	...	55.4	...	0.7	8. 8. 44.90		46.51				8. 8. 51.54	
	30	Jupiter 2 L.	EB	32.0	...	...	...	...	...	...	58.6	...	3.9	8. 8. 47.98							
	31	71 Draconis S.P.	EB	12.8	18.0	23.6	28.7	44.5	49.7	55.1	5.6	10.8	16.0	8. 17. 44.45		45.21				20. 17. 50.24	+ 2.40
	32	W. B. (2) VIII. 546	EB	...	50.0	52.8	58.2	0.9	3.7	11.9	14.5	17.2	...	8. 26. 3.67		3.71				8. 26. 8.74	- 2.50
	33	Lalande 16971 ...	EB	...	...	...	...	...	...	44.1	46.7	49.1	52.1	8. 32. 36.15		36.21				8. 32. 41.24	- 2.43
	34	Lalande 16988 ...	EB	...	...	...	...	...	59.5	1.9	9.9	12.2	14.9	8. 33. 1.91		1.97				8. 33. 7.00	- 2.43
	35	ζ Hydræ	EB	35.9	38.3	40.8	45.9	48.2	50.8	58.2	0.7	3.1	5.6	8. 49. 50.76		50.92				8. 49. 55.95	- 2.23
	36	10 Ursæ Majoris..	EB	...	34.8	38.2	44.9	48.1	51.6	1.7	4.9	8.2	...	8. 53. 51.57		51.45				8. 53. 56.48	- 3.19
	37	ν Cancri	EB	20.7	23.3	26.0	31.5	34.3	37.0	45.2	47.9	50.6	53.4	8. 56. 37.00		37.04				8. 56. 42.07	- 2.61
	38	κ Cancri	EB	48.9	51.5	54.0	59.0	1.4	4.0	11.6	14.1	16.4	19.2	9. 2. 4.02		4.15	9.20	5.05		9. 2. 9.19	- 2.33
	39	θ Hydræ	EB	39.4	41.9	44.3	49.3	51.7	54.2	1.6	4.1	6.4	9.1	9. 8. 54.21		54.40				9. 8. 59.44	- 2.23
	40	α Lyncis	EB	23.0	26.0	29.1	35.1	38.1	41.2	50.1	53.2	56.1	59.4	9. 14. 41.14		41.09				9. 14. 46.13	- 2.96
	41	W. B. IX. 423 ...	EB	5.4	7.8	10.4	15.2	17.8	20.4	28.0	30.3	32.8	35.4	9. 22. 20.36		20.51				9. 22. 25.55	- 2.34
	42	τ ² Hydræ	EB	22.9	25.3	27.8	32.9	35.3	37.8	45.2	47.5	50.0	52.7	9. 26. 37.75		37.96				9. 26. 43.00	- 2.22
	43	ι Hydræ	EB	14.9	17.3	19.9	24.8	27.2	29.8	37.1	39.6	42.0	44.6	9. 34. 29.73		29.94				9. 34. 34.98	- 2.23
	44	Lalande F. 1479..	EB	58.7	7.5	15.5	40.1	48.5	56.0	17.1	24.1	39.4	47.1	9. 43. 26.57		20.24				9. 43. 25.28	- 38.99
	45	Bradley 1393.....	EB	37.5	39.9	42.3	47.5	50.0	52.4	59.9	2.4	4.9	7.6	9. 50. 52.45		52.60				9. 50. 57.64	- 2.40
	46	υ ² Hydræ	EB	45.2	47.9	50.3	55.4	58.0	0.6	8.0	10.5	13.0	15.8	10. 0. 0.48		0.77				10. 0. 5.81	- 2.14
	47	λ Hydræ	EB	12.7	15.1	17.8	22.9	25.4	28.0	35.5	38.0	40.4	43.1	10. 5. 27.90		28.19				10. 5. 33.23	- 2.15
	48	37 Leonis	EB	...	...	...	...	0.7	3.1	10.9	13.4	15.9	18.5	10. 11. 3.20		3.30				10. 11. 8.34	- 2.51
	49	μ Hydræ	EB	44.9	47.5	50.0	55.1	57.8	0.5	8.1	10.7	13.2	15.9	10. 21. 0.38		0.70	5.71	5.01		10. 21. 5.74	- 2.14
	50	Piazzi X. 83	EB	...	59.6	2.0	7.2	10.0	12.4	20.1	22.6	25.0	...	10. 23. 12.38		12.48				10. 23. 17.52	- 2.53
	51	Polaris S.P.	B	40.0	47.4	52.8	56.4	39.2	44.1	49.2	8.5	...	...	13. 19. 31.20	(- 2.58)	45.66	51.47	5.81	5.03	1. 19. 50.71	+ 62.38
	52	δ 2 L.	B	...	43.1	45.6	...	...	56.2	...	6.9	9.3	...	13. 43. 56.24		56.57				13. 42. 50.66	
	53	η Boötis	B	25.3	...	...	...	38.2	40.9	48.8	51.3	...	...	13. 49. 40.90		41.00	46.01	5.01		.....	

Correction for passage of Semidiameter, No. 52, — 70°.97.

2. Observed over wire W with the transit-micrometer set to readings 34^r.713, 34^r.876, 35^r.084, 35^r.578, 35^r.745, 36^r.043, 36^r.168, 36^r.509, 36^r.673, 36^r.876.
 12. Observed over wire Q with the transit-micrometer set to readings 36^r.351, 35^r.847, 35^r.652, 35^r.478, 35^r.304, 35^r.165, 34^r.988, 34^r.813, 34^r.670, 34^r.427.
 15. 49. 50. Very faint.
 20. Very faint. Observed in partially illuminated field over wire U with the transit-micrometer set to readings 33^r.245, 33^r.845, 34^r.142, 34^r.497, 34^r.661, 34^r.960.
 35^r.715, 35^r.903, 36^r.329.
 22. 48. 53. Cloudy.
 25. Observed over wire Q with the transit-micrometer set to readings 37^r.027, 36^r.959, 36^r.848, 36^r.740, 36^r.550, 36^r.479, 36^r.295, 36^r.200, 36^r.062, 35^r.968.
 29. 30. Ill-defined; cloudy.
 30. A correction of + 0°.01, for defect of illumination, has been applied in forming the concluded transit.
 44. Very faint. Observed in partially illuminated field over wire S with the transit-micrometer set to readings 34^r.782, 34^r.967, 35^r.118, 35^r.627, 35^r.813, 35^r.979, 36^r.405, 36^r.557, 36^r.870, 37^r.327.
 51. Observed over wire O with the transit-micrometer set to readings 31^r.540, 31^r.480, 31^r.450, 31^r.380, 31^r.060, 30^r.998, 30^r.970, 30^r.772.
 52. Very faint; cloudy. Correction to R.A. on true meridian, + 0°.01.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1960.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.											
				s	s	s	s	s	s	s	s	s	s											
				h	m	s	h	m	s	h	m	s	h									m	s	
1989	Mar. 3	1	⊙ 1 L.....	J	35.6	38.1	40.9	45.7	48.2	50.6	58.3	...	2.7	...	22. 58. 50.64	+ 0.77	56.12	5.12	5.24 [- 0.03]	22. 59. 1.33	1. 3. 53.99 + 0.53			
2	⊙ 2 L.....	J	46.1	48.4	51.1	56.0	58.5	1.1	8.5	11.1	13.6	16.1	23. 0. 1.06	(- 2.58)										
3	β Andromedæ ...	J	...	33.8	...	...	45.9	48.9	57.8	0.8	3.7	6.9	1. 3. 48.80	[+ 5.45]	48.78	53.90						5.12	5.21	1. 19. 49.79 + 62.65
4	Polaris	J	17.0	22.7	27.2	33.6	37.8	44.4	46.9	54.5	9.7	17.6	1. 19. 58.69	[+ 3.85]	44.58	51.20	6.62		4. 59. 14.48 - 1.36					
5	η Aurigæ	J	...	...	56.2	2.8	6.0	9.5	19.0	22.7	...	...	4. 59. 9.38		9.28				5. 5. 27.90 - 3.05					
6	Piazzi IV. 269 ...	J	...	18.3	31.1	57.6	10.6	23.8	3.7	16.1	29.1	...	5. 5. 23.88		22.70				5. 5. 29.14 - 3.05					
7	B. D. + 79° No. 168	J	...	...	32.3	59.0	12.0	25.0	4.8	17.3	...	...	5. 5. 25.12		23.94				5. 13. 28.15 - 3.17					
8	Piazzi IV. 317 ...	J	...	...	...	0.1	12.4	24.0	59.3	...	...	...	5. 13. 23.99		22.95				5. 19. 44.40 - 1.42					
9	β Tauri	J	22.3	25.2	28.0	33.4	36.3	39.3	47.7	50.5	53.2	56.1	5. 19. 39.21		39.20	44.43	5.23		5. 21. 24.69 - 1.37					
10	α Tauri	J	...	6.1	8.8	14.0	16.8	19.5	27.4	30.0	32.8	...	5. 21. 19.45		19.49				5. 25. 58.98 - 1.51					
11	χ Aurigæ	J	...	...	...	...	50.9	53.9	...	...	8.3	11.3	5. 25. 53.81		53.78				5. 28. 26.55 - 1.76					
12	Groombridge 987	J	...	...	6.8	14.1	...	...	...	...	39.8	43.5	5. 28. 21.50		21.35				5. 30. 16.44 - 1.24					
13	c Orionis	J	...	...	...	...	...	...	18.5	20.9	23.5	26.0	5. 30. 11.08		11.24				5. 42. 50.57 - 1.27					
14	45 Orionis	J	...	...	...	22.5	25.1	27.6	35.0	...	...	...	5. 30. 27.56		27.72				5. 44. 26.40 - 1.60					
15	κ Orionis	J	...	...	...	40.1	42.6	45.1	52.7	55.3	57.6	0.4	5. 42. 45.18		45.37	50.67	5.30		5. 51. 0.13 - 2.21					
16	Piazzi V. 236	J	4.4	7.2	10.0	15.6	18.4	21.3	29.7	32.1	35.3	37.9	5. 44. 21.20		21.20				5. 56. 16.48 - 2.18					
17	δ Aurigæ	J	29.8	33.9	38.1	46.6	51.0	55.2	8.0	12.0	16.2	20.6	5. 50. 55.16		54.93				5. 56. 17.47 - 2.18					
18	35 Camelopardi ...	J	47.5	51.6	55.6	3.5	7.4	11.5	23.3	27.4	31.2	35.6	5. 56. 11.48		11.28				18. 5. 36.76 + 13.75					
19	* N.P.D. 38° 26'	J	48.5	52.6	56.5	4.5	8.5	12.5	24.4	28.3	32.2	36.5	5. 56. 12.47		12.27				6. 7. 48.81 - 2.34					
20	δ Ursæ Min. S.P.	J	52.8	59.6	3.9	9.1	14.5	33.1	38.0	42.1	47.2	51.6	6. 5. 27.37		31.56	36.90	5.34		6. 22. 49.05 - 1.76					
21	Groombridge 1115	J	19.6	23.5	27.7	...	39.8	43.9	56.0	59.9	...	8.1	6. 7. 43.82		43.61				6. 31. 44.05 - 1.76					
22	ν Geminorum	J	...	...	...	...	43.8	51.7	54.2	57.0	59.8	...	6. 22. 43.82		43.85	49.02	5.17		6. 35. 33.24 - 2.36					
23	γ Geminorum	J	23.4	26.0	28.5	33.6	36.1	38.8	46.4	49.1	51.8	54.2	6. 31. 38.80		38.85	43.96	5.11		6. 36. 6.12 - 2.37					
24	55 Aurigæ.....	J	7.3	10.7	14.2	21.1	24.9	28.0	38.7	42.0	45.5	49.1	6. 35. 28.17		28.04				.....					
25	Groombridge 1211	J	...	...	...	...	57.5	...	11.5	14.9	18.2	22.0	6. 36. 1.05		0.92				5.09					
26	ξ Geminorum ...	HF	...	11.0	13.6	18.6	21.2	23.6	31.4	33.9	36.4	...	6. 39. 23.73		23.80	28.87	5.07	5.21	6. 40. 35.34 - 1.48					
27	Sirius	J	...	...	...	...	...	37.6	40.1	42.9	45.4	...	6. 40. 29.91		30.14				6. 52. 10.76 - 25.90					
28	Cephei 51	J	34.3	41.8	46.1	51.7	57.5	25.3	31.9	43.3	48.8	52.9	6. 52. 10.46		5.56	11.23	5.67		6. 56. 6.71 - 2.03					
29	ω Geminorum ...	J	...	...	...	56.0	58.8	1.5	9.6	...	...	...	6. 56. 1.49		1.51				7. 12. 8.78 - 1.99					
30	λ Geminorum ...	J	...	...	...	...	...	...	11.1	13.9	16.4	19.1	7. 12. 3.53		3.58				7. 12. 40.36 - 2.00					
31	W.B.(2) VII. 316-7	J	...	...	...	30.0	32.5	35.1	42.9	45.4	48.0	50.5	7. 12. 35.11		35.16				7. 17. 30.29 - 2.23					
32	W.B. (2) VII. 449-50	J	8.2	11.1	13.9	19.5	22.3	25.1	...	...	...	...	7. 17. 25.09		25.09				7. 17. 49.19 - 2.24					
33	W.B.(2) VII. 436-8	J	...	...	32.9	38.2	41.2	44.1	52.3	55.2	...	...	7. 17. 43.99		43.99				7. 19. 18.27 - 2.24					
34	ι Geminorum	J	56.2	59.2	1.9	7.4	10.2	12.9	21.5	24.2	27.1	30.0	7. 19. 13.07		13.07				7. 26. 38.83 - 2.18					
35	W. B. (2) VII. 703	J	17.4	20.1	22.9	28.1	30.9	33.8	41.5	44.2	47.1	50.0	7. 26. 33.61		33.63				19. 25. 41.23 + 78.88					
36	λ Ursæ Min. S.P.	J	3.2	10.1	16.6	21.4	26.8	33.8	39.2	44.9	49.1	56.1	7. 25. 22.36		36.03				7. 27. 59.90 - 2.38					
37	α' Geminorum ...	J	...	...	...	48.8	51.8	54.9	3.4	...	...	...	7. 27. 54.74		54.70				7. 28. 0.20 + 2.38					
38	Castor	J	37.4	40.3	43.3	...	...	...	6.8	9.7	12.7	...	7. 27. 55.04		55.00	0.25	5.25		.....					
39	Procyon	HF	33.3	35.9	38.3	43.3	45.9	48.2	55.8	58.2	0.6	3.1	7. 33. 48.27		48.38	53.47	5.09	5.09	7. 55. 5.73 - 86.88					
40	Groombridge 1119	HF	6.1	12.5	18.1	25.0	37.5	46.0	54.8	0.1	6.1	12.2	7. 55. 13.68		0.53			5.21	8. 6. 2.11 - 3.00					
41	W. B. (2) VIII. 23	HF	36.6	40.0	43.5	50.2	53.6	...	...	10.5	...	17.6	8. 5. 57.03		56.91				8. 8. 34.69					
42	Jupiter 1 L.....	J	12.0	...	...	...	...	...	...	38.4	...	43.8	8. 8. 27.87											
43	Jupiter 2 L.....	J	...	...	...	...	31.0	...	41.6	...	...	...	8. 8. 31.03											
44	Groomb. 3548 S.P.	J	25.1	32.7	37.5	55.9	6.9	11.9	36.8	41.3	46.6	50.9	9. 19. 40.69		44.88				21. 19. 50.08 + 30.95					
45	ψ Leonis	J	45.9	48.4	50.9	56.2	58.8	1.4	8.9	11.5	14.0	16.6	9. 38. 1.27		1.34				9. 38. 6.54 - 2.47					
46	ν Hydæ	J	9.8	12.4	15.0	20.0	22.6	25.4	32.7	35.5	38.0	40.5	9. 46. 25.20		25.42				9. 46. 30.62 - 2.12					
47	Radcliffe 2433 ...	J	...	...	39.0	48.0	52.4	56.6	10.1	14.4	...	...	9. 57. 56.77		56.51				9. 58. 1.71 - 4.32					
48	α Leonis	J	...	...	...	15.2	17.9	20.2	27.9	...	...	...	10. 2. 20.31		20.40				10. 2. 25.60 - 2.43					
49	Arcturus	AC	...	...	...	...	...	59.8	2.2	4.7	7.5	14. 10. 51.75	(- 2.08)	51.81	57.01	5.20	5.16	.....						
50	Lalande 26150 ...	AC	34.0	36.5	39.1	44.2	46.9	49.6	57.5	0.0	2.4	5.1	14. 12. 49.54		49.79				14. 12. 54.93 - 1.82					
51	f Boötis	AC	18.1	20.7	23.4	28.5	31.2	33.9	41.8	44.2	46.9	49.7	14. 21. 33.85		33.91	39.02	5.11		.....					
52	ρ Boötis	AC	0.3	3.3	6.2	12.0	14.9	17.8	26.4	29.1	32.1	35.1	14. 27. 17.73		17.75	22.87	5.12		.....					
53	Groombridge 2142	AC	47.4	50.6	54.0	0.5	3.8	7.0	16.9	20.1	23.3	26.7	14. 37. 7.04		6.99				14. 37. 12.13 - 2.11					
54	δ 2 L.....	AC	...	...	...	...	...	...	...	...	12.5	28.9	14. 42. 39.64		39.92				14. 41. 32.69					

Correction for passage of Semidiameter, No. 54, — 72° 38.

4. Observed over wire P with the transit-micrometer set to readings 34° 982, 35° 030, 35° 090, 35° 310, 35° 330, 35° 558, 35° 770, 35° 840, 35° 960, 36° 026. 8, 13, 14. Cloudy.
- 11, 12, 44, 47, 48. Very faint; cloudy.
20. Observed over wire U with the transit-micrometer set to readings 36° 298, 36° 146, 36° 020, 35° 917, 35° 776, 35° 345, 35° 213, 35° 090, 34° 990, 34° 890.
28. Observed over wire T with the transit-micrometer set to readings 34° 908, 35° 030, 35° 124, 35° 228, 35° 328, 35° 290, 36° 023, 36° 244, 36° 350, 36° 448.
36. Observed over wire Q with the transit-micrometer set to readings 35° 400, 35° 334, 35° 301, 35° 274, 35° 228, 35° 188, 35° 133, 35° 100, 35° 075, 35° 005.
40. Observed over wire U with the transit-micrometer set to readings 34° 760, 34° 810, 34° 849, 34° 887, 35° 003, 35° 060, 35° 133, 35° 177, 35° 209, 35° 258.
43. A correction of + 0° 01, for defect of illumination, has been applied in forming the concluded transit.
44. Observed over wire R with the transit-micrometer set to readings 36° 570, 36° 370, 36° 255, 35° 820, 35° 551, 35° 420, 34° 820, 34° 730, 34° 600, 34° 510.
54. Observed over wires Y and Z. Correction to R.A. on true meridian, + 0° 01.

MO.	D.	H.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Redu- ction to Mean R.A. 1896.
						I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s							
Mar. 3	1	Groombridge 157	AC	...	...	...	59.0	2.9	6.9	19.0	23.0	26.9	31.1	14.46. 6.99	+ 0.77	6.84			5.16	14.46. 11.98	- 2.27			
	2	* N.P.D. 38° 10'	AC	...	...	...	0.7	...	8.8	20.9	24.7	28.7	32.8	14.46. 8.79	(- 2.08)	8.64			[- 0.03]	14.46. 13.78	- 2.27			
	3	17 Libræ	AC	...	...	...	26.3	29.0	31.6	39.0	41.6	44.1	46.7	14.52. 31.52	[+ 3.85]	31.73				14.52. 36.87	- 1.66			
	4	Bradley 417 S.P.	AC	38.5	47.9	56.5	5.5	32.2	41.5	50.7	8.4	17.4	26.2	15. 0. 32.44		33.30				3. 0. 38.44	+ 1.38			
	5	1 Libræ	AC	58.0	0.6	3.1	8.2	11.0	13.7	21.7	24.1	26.9	29.6	15. 6. 13.70		13.96	19.10	5.14		.....				
	6	Saturn 1 L.	AC	51.9	54.5	57.1	2.2	4.9	7.4	15.1	17.6	20.1	22.9	15. 9. 7.38						15. 9. 13.41				
	7	Saturn 2 L.	AC	53.4	56.0	58.4	3.6	6.0	8.6	16.3	18.9	21.5	24.1	15. 9. 8.69										
	8	Groombridge 2283	AC	39.0	45.7	51.2	59.1	23.4	29.9	36.9	44.7	27.1	35.5	15. 10. 58.41		53.30				15. 10. 58.44	- 15.27			
	9	Piazzi XVII. 99.	S	47.6	50.0	52.5	...	...	2.6	...	12.3	14.9	17.5	17. 21. 2.50	(- 1.71)	2.70			4.98	17. 21. 7.61	- 0.92			
	10	λ Herculis	S	...	...	...	...	...	25.0	27.9	36.1	38.7	41.4	17. 26. 27.75		27.81			[- 0.10]	17. 26. 32.72	- 0.66			
	11	α Ophiuchi	S	46.8	49.3	52.0	56.9	59.6	2.0	9.8	12.2	14.7	17.4	17. 30. 2.08		2.20	7.10	4.90		17. 30. 7.11	- 0.75			
	12	μ Ophiuchi	S	52.1	54.6	57.1	2.1	4.6	7.2	14.6	17.1	19.5	22.2	17. 32. 7.12		7.33				17. 32. 12.24	- 0.88			
	13	ο Serpentis	S	14.5	17.0	19.6	24.8	27.3	30.0	37.4	40.0	42.4	45.2	17. 35. 29.83		30.07				17. 35. 34.98	- 0.89			
	14	γ Ophiuchi	S	21.4	24.0	26.4	31.4	33.9	36.2	43.8	46.1	48.5	51.1	17. 42. 36.29		36.45				17. 42. 41.36	- 0.75			
	15	ξ Draconis	S	11.6	16.1	20.6	29.6	34.1	38.7	52.3	56.9	1.3	6.1	17. 51. 38.75		38.59				17. 51. 43.50	+ 0.21			
	16	72 Ophiuchi	S	5.6	8.0	10.5	15.6	18.1	20.5	28.1	30.7	33.1	35.6	18. 2. 20.59		20.72	25.68	4.96		18. 2. 25.62	- 0.58			
	17	δ Ursæ Minoris	S	53.1	2.1	15.1	20.7	29.6	34.8	6.1	10.4	23.9	29.0	18. 5. 35.52		32.03	37.07	5.04		18. 5. 36.93	+ 13.58			
	18	κ Lyræ	S	49.9	52.8	56.0	2.0	5.1	8.1	17.4	20.3	23.3	26.5	18. 16. 8.15		8.15				18. 16. 13.05	- 0.13			
	19	109 Herculis	S	55.2	58.0	0.5	6.0	8.5	11.3	19.1	22.0	24.5	27.4	18. 19. 11.26		11.35				18. 19. 16.25	- 0.35			
	20	α Lyræ	S	0.9	4.1	7.4	13.7	16.8	20.1	29.5	32.7	35.7	39.1	18. 33. 20.03		20.02	24.95	4.93		18. 33. 24.92	+ 0.06			
	21	Cephei 51 S.P.	S	31.0	39.3	56.2	35.1	41.6	1.2	6.6	17.5	24.5	36.1	18. 52. 1.64		5.83	11.05	5.22		6. 52. 10.73	- 25.72			
Mar. 4	22	ι Aurigæ	S	51.8	54.7	57.7	3.6	6.5	9.6	18.3	21.3	24.1	27.3	4. 50. 9.50		9.53	14.36	4.83	4.88	4. 50. 14.39	- 1.19			
	23	Piazzi IV. 207	S	...	...	...	12.5	21.8	30.9	57.4	...	...	...	4. 51. 30.68		30.13				4. 51. 34.99	- 1.92			
	24	9 Aurigæ	S	4.8	8.5	12.5	20.5	24.6	28.6	40.4	44.3	48.2	52.3	4. 58. 28.49		28.38				4. 58. 33.24	- 1.45			
	25	Bradley 718	S	2.2	4.6	7.3	12.0	14.7	17.1	24.8	27.2	29.7	32.2	5. 3. 17.19		17.49				5. 3. 22.27	- 1.06			
	26	λ Eridani	S	50.9	53.5	56.1	0.9	3.6	6.2	13.6	16.1	18.5	21.2	5. 4. 6.07		6.29				5. 4. 11.15	- 1.06			
	27	Rigel	S	13.3	15.9	18.2	23.1	26.0	28.3	36.0	38.4	40.8	43.5	5. 9. 28.36		28.57	33.43	4.86		5. 9. 33.43	- 1.09			
	28	Groombridge 948	S	...	...	...	29.2	45.7	55.0	4.1	32.2	41.5	...	5. 14. 4.66		4.08				5. 14. 8.94	- 2.65			
	29	Piazzi V. 62	S	...	...	...	46.9	49.9	52.7	1.4	...	...	...	5. 17. 52.74		52.77				5. 17. 57.63	- 1.41			
	30	Piazzi V. 63	S	35.6	38.3	41.5	...	...	...	...	4.4	7.3	10.2	5. 17. 52.89		52.92				5. 17. 57.78	- 1.41			
	31	Groombridge 966	S	...	...	...	28.4	38.0	48.0	16.6	...	...	...	5. 25. 47.78		47.18				5. 25. 52.04	- 3.07			
	32	κ Orionis	S	30.6	33.1	35.6	40.4	43.1	45.7	53.1	55.6	58.1	0.7	5. 42. 45.61		45.83	50.65	4.82		5. 42. 50.69	- 1.25			
	33	χ² Orionis	S	28.0	30.6	33.2	38.5	41.2	43.9	51.8	54.3	56.9	59.5	5. 48. 43.80		43.89				5. 48. 48.75	- 1.52			
	34	139 Tauri	S	12.6	15.4	18.2	23.6	26.4	29.2	37.4	40.1	42.8	45.8	5. 51. 29.16		29.22				5. 51. 34.08	- 1.61			
	35	Groombridge 1062	S	...	...	...	17.8	28.8	34.7	40.0	56.4	2.0	...	5. 56. 39.97		39.71				5. 56. 44.57	- 2.70			
	36	δ Ursæ Min. S.P.	S	4.1	9.6	15.7	21.2	28.0	53.0	59.6	4.9	10.3	18.0	6. 5. 28.83		32.29	37.24	4.95		6. 5. 37.14	+ 13.41			
	37	Groombridge 1161	S	11.7	15.7	19.7	27.6	32.0	36.0	48.1	52.1	56.0	0.2	6. 20. 35.93		35.81				6. 20. 40.66	- 2.46			
	38	Groombridge 1177	S	...	...	...	...	...	...	...	35.3	39.5	43.8	48.4	6. 26. 22.09		21.95				6. 26. 26.80	- 2.68		
	39	ν¹ Canis Majoris	S	...	...	...	40.5	43.3	46.0	53.9	...	...	...	6. 31. 45.94		46.20				6. 31. 51.05	- 1.43			
	40	Sirius	S	14.9	17.7	20.0	25.0	27.8	30.1	38.0	40.6	43.1	46.0	6. 40. 30.33		30.58				6. 40. 35.43	- 1.46			
	41	Cephei 51	S	36.6	43.5	54.1	6.3	13.1	30.6	38.0	45.1	51.8	0.1	6. 52. 9.74		5.81	10.86	5.05		6. 52. 10.66	- 25.53			
	42	τ Geminorum..R.	S	11.3	14.0	16.9	22.5	25.4	28.4	...	...	...	...	7. 4. 28.36		28.66				7. 4. 33.51	- 2.19			
	43	δ Geminorum	S	...	...	...	...	49.1	51.9	59.9	2.7	5.2	8.0	7. 13. 51.92		52.00	56.76	4.76		7. 13. 56.85	- 2.07			
	44	λ Ursæ Min. S.P.	S	58.0	9.4	23.4	36.2	59.2	14.0	41.1	52.4	18.1	32.2	7. 25. 33.58		34.75				19. 25. 39.60	+ 77.91			
	45	Procyon	S	33.5	36.0	38.4	43.4	46.0	48.3	55.9	58.5	0.8	3.4	7. 33. 48.43		48.58	53.46	4.88		7. 33. 53.43	- 1.91			
	46	γ Monocerotis	S	58.4	0.8	3.5	8.2	10.9	13.5	21.1	23.4	26.0	28.6	7. 36. 13.45		13.67				7. 36. 18.52	- 1.78			
	47	Pollux	S	...	40.5	43.4	48.9	52.0	54.7	3.1	6.0	8.6	...	7. 38. 54.67		54.72	59.47	4.75		7. 38. 59.57	- 2.33			
	48	W. B. VII. 1184	S	38.6	41.2	43.5	48.4	51.2	53.4	1.1	3.5	6.0	8.7	7. 40. 53.57		53.78				7. 40. 58.63	- 1.82			
	49	Groombridge 1119	S	6.1	17.3	24.2	33.3	41.4	50.8	59.9	10.9	22.8	34.8	7. 55. 11.67		1.03				7. 55. 5.88	- 86.04			
	50	W. B. (2) VII. 1439	S	50.8	53.4	56.1	1.6	4.5	7.2	15.2	18.0	20.8	23.6	7. 54. 7.13		7.19				7. 54. 12.04	- 2.36			
	51	ω² Cancri	S	8.4	11.1	13.9	19.4	22.1	24.9	33.1	36.0	38.3	41.4	7. 55. 24.87		24.93				7. 55. 29.78	- 2.36			
	52	29 Monocerotis	S	4.0	6.5	9.0	14.0	16.4	19.0	26.4	28.8	31.3	33.9	8. 3. 18.94		19.13				8. 3. 23.98	- 1.95			

8. Observed over wire U with the transit-micrometer set to readings 34° 281, 34° 397, 34° 488, 34° 625, 35° 031, 35° 135, 35° 246, 35° 373, 36° 089, 36° 220.

17. Observed over wire T with the transit-micrometer set to readings 34° 597, 34° 821, 35° 121, 35° 248, 35° 471, 35° 594, 36° 319, 36° 444, 36° 751, 36° 898.

21. Observed over wire X with the transit-micrometer set to readings 40° 802, 40° 648, 40° 289, 39° 520, 39° 411, 39° 030, 38° 921, 38° 683, 38° 549, 38° 341.

21, 28, 49. Very faint; cloudy. 33, 38, 39. Very faint; foggy.

36. Very unsteady. Observed over wire U with the transit-micrometer set to readings 36° 057, 35° 938, 35° 800, 35° 661, 35° 474, 34° 881, 34° 736, 34° 607, 34° 464, 34° 288.

40. Very diffused and tremulous.

41. Observed over wire T with the transit-micrometer set to readings 36° 124, 36° 263, 36° 471, 36° 701, 36° 852, 37° 210, 37° 319, 37° 457, 37° 614, 37° 767.

44. Observed over wire T with the transit-micrometer set to readings 36° 666, 36° 569, 36° 471, 36° 359, 36° 216, 36° 091, 35° 034, 34° 532, 34° 348, 34° 230.

49. Observed over wire Q with the transit-micrometer set to readings 35° 564, 35° 642, 35° 698, 35° 757, 35° 814, 35° 912, 35° 928, 36° 014, 36° 129, 36° 217.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GCAJMM.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.									
s	s	s	s	s	s	s	s	s	s	h	m	s	"	s	s	s	s	h	m	s	s				
Mar. 4	1	Jupiter 1 L.	S	56.0	...	1.3	...	...	11.8	...	22.2	...	27.8	8. 8. 11.82	+ 0.77	} 13.46	}	}	4.88	8. 8. 18.31					
2	Jupiter 2 L.	S	59.1	...	4.3	...	...	14.9	...	25.4	...	30.8	8. 8. 14.91	(- 1.71)	[- 0.10]										
3	Piazzi VIII. 42 ...	S	...	...	...	...	...	14.4	22.3	25.0	27.6	30.4	8. 14. 14.41	[+ 3.85]	14.50										8. 14. 19.35	- 2.36
4	Bradley 2636 S.P. ...	S	...	55.9	2.8	9.2	29.6	36.2	43.5	56.8	3.5	...	8. 19. 29.64		30.27				20. 19. 35.12	+ 3.42					
5	υ ³ Cancri	S	2.8	5.4	8.1	13.6	16.3	19.1	27.4	30.0	32.6	35.5	8. 25. 19.09		19.17				8. 25. 24.01	- 2.48					
6	32 Cancri	S	32.4	35.3	38.0	43.4	46.1	48.9	57.1	59.9	2.2	5.1	8. 26. 48.85		48.93				8. 26. 53.77	- 2.48					
7	W. B. (2) VIII. 958	S	3.1	6.0	8.8	14.4	17.3	20.1	28.6	31.4	34.2	37.3	8. 40. 20.13		20.18				8. 40. 25.02	- 2.66					
8	ι Cancri	S	4.9	8.0	10.6	16.0	19.3	22.0	30.5	33.3	36.1	39.0	8. 40. 21.98		22.03				8. 40. 26.87	- 2.66					
9	ζ Hydræ	S	...	...	...	46.0	48.5	51.0	58.6	...	...	...	8. 49. 51.04		51.19				8. 49. 56.03	- 2.22					
10	α Cancri	S	30.0	32.6	35.2	40.2	42.8	45.3	52.9	55.4	58.0	0.6	8. 52. 45.31		45.44	50.30	4.86		8. 52. 50.28	- 2.33					
11	Piazzi VIII. 245 ...	S	34.0	37.3	40.2	46.7	50.0	53.1	2.6	5.8	8.9	12.2	8. 59. 53.09		53.08				8. 59. 57.92	- 3.05					
12	θ Hydræ	S	39.5	42.0	44.5	49.4	52.0	54.4	1.9	4.2	6.8	9.3	9. 8. 54.41		54.57				9. 8. 59.41	- 2.22					
13	κ Leonis	S	17.1	20.0	22.6	28.1	30.9	33.5	42.0	44.8	47.5	50.4	9. 18. 33.70		33.76				9. 18. 38.60	- 2.71					
14	h Ursæ Majoris...	S	46.9	52.5	58.0	9.1	14.8	20.2	37.0	42.2	47.8	53.6	9. 23. 20.23		19.98				9. 23. 24.82	- 5.14					
15	Groomb. 3492 S.P. ...	S	...	...	...	9.1	22.9	27.6	32.0	...	...	...	9. 28. 22.89		23.32				21. 28. 28.16	+ 2.23					
16	Groomb. 3494 S.P. ...	S	...	...	...	0.6	14.3	19.1	23.5	...	...	...	9. 29. 14.37		14.80				21. 29. 19.64	+ 2.24					
17	o Leonis	S	18.2	20.9	23.4	28.2	30.9	33.5	40.8	43.4	45.9	48.4	9. 35. 33.37		33.50	38.36	4.86		9. 35. 38.34	- 2.38					
18	ψ Leonis	S	46.2	48.7	51.3	56.4	59.2	1.6	9.2	11.9	14.1	16.9	9. 38. 1.56		1.67				9. 38. 6.51	- 2.47					
19	υ ¹ Hydræ	S	10.1	12.7	15.3	20.2	22.9	25.4	33.3	35.9	38.2	40.9	9. 46. 25.50		25.74				9. 46. 30.58	- 2.11					
20	Groomb. 3620 S.P. ...	S	...	...	...	...	33.4	41.1	49.0	4.1	11.7	19.6	9. 50. 33.53		34.23				21. 59. 39.07	+ 4.81					
21	Groomb. 3668 S.P. ...	S	...	...	52.6	58.5	16.1	22.1	28.1	40.0	...	...	9. 59. 16.21		16.76				21. 59. 21.60	+ 3.46					
22	Groomb. 3684 S.P. ...	S	...	...	...	58.7	16.1	22.0	28.1	...	...	...	10. 1. 16.21		16.76				22. 1. 21.60	+ 3.44					
23	37 Leonis	S	48.0	50.6	53.1	58.3	0.8	3.4	11.0	13.5	16.0	18.7	10. 11. 3.35		3.46				10. 11. 8.30	- 2.51					
24	Piazzi XXII. 80 S.P. ...	S	...	...	...	56.2	9.7	14.2	18.9	...	...	...	10. 16. 9.74		10.15				22. 16. 14.99	+ 2.27					
25	Groomb. 3755 S.P. ...	S	...	...	...	45.0	57.7	2.0	6.5	...	...	...	10. 18. 57.79		58.18				22. 19. 3.02	+ 2.11					
26	ρ Leonis	S	2.4	5.0	7.5	12.4	15.0	17.6	25.1	27.6	30.0	32.6	10. 27. 17.53		17.66	22.53	4.87		10. 27. 22.50	- 2.43					
27	Piazzi XXII. 156 S.P. ...	S	...	...	...	18.0	31.3	35.7	40.1	...	...	...	10. 29. 31.27		31.68				22. 29. 36.52	+ 2.24					
28	Groombridge 1669 ...	S	...	...	58.6	12.1	19.5	26.1	46.9	54.0	...	...	10. 34. 26.23		25.85				10. 34. 30.69	- 6.39					
29	Lacaille 4609	S	54.6	57.4	0.1	5.9	8.9	11.6	20.1	22.9	25.9	28.9	11. 3. 11.64		11.97				11. 3. 16.80	- 2.12					
30	δ Leonis	S	...	...	...	26.9	29.7	32.4	40.3	42.9	45.5	48.4	11. 8. 32.35		32.44	37.32	4.88		11. 8. 37.27	- 2.65					
31	Bradley 3085 S.P. ...	S	51.5	0.5	9.1	18.0	44.1	53.0	2.1	19.6	28.4	37.4	11. 10. 44.33		45.13				23. 10. 49.96	+ 5.65					
32	σ Leonis	S	28.8	31.5	33.9	38.8	41.2	43.8	51.2	53.7	56.1	58.8	11. 15. 43.75		43.94				11. 15. 48.77	- 2.39					
33	4 Cassiopeiae S.P. ...	S	...	...	...	49.1	4.9	10.2	15.5	...	...	...	11. 20. 4.91		5.40				23. 20. 10.23	+ 2.79					
34	e Leonis	S	42.4	44.8	47.4	52.2	54.9	57.3	4.6	7.1	9.5	12.1	11. 24. 57.24		57.43				11. 25. 2.26	- 2.27					
35	Bradley 3147 S.P. ...	S	4.9	13.5	32.4	40.0	56.3	2.7	15.9	23.1	36.4	45.1	11. 27. 9.67		13.26				23. 27. 18.09	+ 3.92					
36	β Leonis	S	27.4	30.0	32.5	37.6	40.2	42.6	50.4	53.0	55.5	58.2	11. 43. 42.75		42.86	47.72	4.86		11. 43. 47.69	- 2.48					
37	β Virginis	S	59.0	1.5	4.0	8.9	11.4	14.0	21.5	24.0	26.2	28.9	11. 45. 13.95		14.11	18.95	4.84		11. 45. 18.94	- 2.31					
38	Saturn 1 L.	D	...	52.0	54.9	59.7	2.2	5.1	12.9	15.4	17.9	...	15. 9. 5.03		5.90			5.01	15. 9. 10.85						
39	Saturn 2 L.	D	...	53.4	56.0	1.1	3.8	6.2	14.1	16.5	19.0	...	15. 9. 6.28						.....						
40	α Coronæ	D	56.9	59.8	2.5	8.0	10.8	13.7	22.0	24.7	27.6	30.2	15. 30. 13.63		13.69	18.59	4.90		.....						
41	42 Libræ	D	48.0	50.8	53.6	58.8	1.5	4.1	12.4	15.0	17.9	20.5	15. 34. 4.27		4.57				15. 34. 9.52	- 1.55					
42	δ 2 L.	D	10.0	12.6	15.5	21.1	24.1	27.1	35.8	38.4	41.2	44.1	15. 43. 27.00		27.31				15. 42. 18.66						
43	σ Scorpii	D	...	...	...	...	...	...	56.4	59.1	1.9	4.6	16. 14. 48.20		48.51				16. 14. 53.45	- 1.38					
44	Antares	D	...	...	...	...	...	...	...	8.7	11.5	14.3	16. 22. 57.75		58.06	3.09	5.03		.....						
Mar. 5	45	Polaris	HA	38.4	23.2	36.5	45.5	55.7	10.0	21.0	51.6	0.1	47.6	1. 19. 57.22	[+ 5.37]	45.38	50.29	4.91	4.86						
46	α Orionis	HA	13.9	16.1	18.7	23.6	26.1	28.9	36.2	38.7	41.1	43.8	5. 49. 28.72		28.94	33.85	4.91	[- 0.05]	.....						
47	1 Geminorum ...	HA	28.3	30.9	33.7	39.1	41.9	44.3	52.7	55.2	58.0	0.7	5. 57. 44.49		44.62	49.46	4.84		.....						
48	η Geminorum ...	HA	16.6	19.5	...	27.4	30.0	32.7	40.7	...	46.0	48.6	6. 8. 32.70		32.84	37.64	4.80		.....						
49	ν Geminorum ...	HA	28.2	30.8	33.4	38.6	41.4	44.0	52.0	54.4	57.1	59.8	6. 22. 43.98		44.12	48.99	4.87		.....						
50	γ Geminorum ...	HA	...	26.1	28.6	33.8	36.2	38.9	46.6	49.2	51.8	...	6. 31. 38.92		39.08	43.93	4.85		.....						
Mar. 6	51	Regulus	R	32.4	34.9	37.4	42.5	45.0	47.5	55.1	57.6	0.1	2.6	10. 2. 47.52	(- 3.23)	47.63	52.46	4.83	4.80						
52	γ ¹ Leonis	R	...	...	...	...	9.6	12.1	20.1	22.7	25.1	27.9	10. 14. 12.12		12.17	16.98	4.81	[- 0.02]	.....						

Correction for passage of Semidiameter, No. 42, — 73".60.

2. A correction of + 0".01, for defect of illumination, has been applied in forming the concluded transit.

35. Observed over wire R with the transit-micrometer set to readings 36".346, 36".152, 35".704, 35".548, 35".163, 35".024, 34".713, 34".537, 34".233, 34".027.

42. Correction to R.A. on true meridian, + 0".01.

45. Observed over wire U with the transit-micrometer set to readings 34".005, 34".397, 34".511, 34".598, 34".683, 34".801, 34".910, 35".160, 35".259, 35".678.

48, 51, 52. Cloudy.

49, 50. Faint.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].							
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s						
Mar. 6	1	μ Hydrae	R	45.1	48.0	50.2	55.4	58.1	0.6	8.5	11.0	13.6	16.2	10. 21. 0.68	+ 0.77 [- 3.23] (+ 5.37)	0.98	5.72	4.74	4.80 [- 0.02]	.....	.....		
	2	53 Herculis	B	40.1	43.0	46.0	51.8	54.5	57.6	6.2	9.1	12.0	15.0	16. 48. 57.54	(- 2.75)	57.53			4.82	16. 49. 2.34	- 1.00		
	3	Piazz IV. 204 S.P.	B	...	...	...	11.2	19.5	28.6	46.1	55.0	4.1	16. 51. 11.12			12.35				4. 51. 17.16	- 1.72		
	4	Bradley 2164	B	...	...	...	43.4	46.0	48.6	56.1	...	...	...	16. 58. 48.54			48.66				16. 58. 53.47	- 1.03	
	5	Bradley 2166	B	51.7	54.1	...	1.9	4.2	6.9	14.5	...	19.7	22.1	16. 59. 6.90			7.02				16. 59. 11.83	- 1.03	
	6	63 Herculis	B	24.5	27.2	30.0	35.4	38.1	...	49.0	51.5	54.2	57.2	17. 6. 40.80			40.86				17. 6. 45.67	- 0.91	
	7	Piazz XVII. 15	B	...	41.0	43.8	...	...	...	2.7	5.4	8.0	10.9	17. 6. 54.57			54.63				17. 6. 59.44	- 0.91	
	8	θ Ophiuchi	B	16.8	19.5	22.2	27.8	30.4	33.2	41.4	44.0	46.6	49.6	17. 15. 33.16			33.55	38.40	4.85		.....	.....	
	9	43 Ophiuchi	B	27.9	30.6	33.5	39.1	42.0	44.8	53.1	56.0	58.6	1.6	17. 16. 44.73			45.15				17. 16. 49.96	- 1.18	
	10	73 Herculis	B	...	...	...	...	...	...	41.4	49.4	52.0	54.6	57.5	17. 19. 41.32			41.38				17. 19. 46.19	- 0.83
	11	β Draconis	B	36.2	40.3	44.2	52.4	56.6	0.6	12.7	16.8	20.8	25.1	17. 28. 0.59			0.36				17. 28. 5.17	- 0.36	
	12	α Ophiuchi	B	...	...	...	...	...	59.9	2.2	10.0	12.3	14.8	17.6	17. 30. 2.30			2.43	7.19	4.76			
	13	δ 2 L	B	...	...	19.7	25.1	28.0	30.9	39.9	42.5	...	...	17. 47. 31.03			31.46				17. 46. 22.91		
Mar. 8	14	μ Herculis	B	29.1	45.8	...	13.6	16.4	19.2	...	33.2	36.0	52.8	17. 42. 19.25	(- 4.23)	19.23	23.92	4.69	4.69	.....	.....		
	15	α Lyrae	B	...	4.8	8.0	14.1	17.4	20.6	30.1	33.3	36.3	...	18. 33. 20.60	[+ 7.16]	20.44	25.11	4.67	[- 0.01]	.....	.....		
Mar. 9	16	γ Leonis	RC	56.2	59.0	1.6	6.9	9.7	12.2	20.1	22.7	25.5	28.1	10. 14. 12.21	+ 0.48 (- 4.34)	12.24	16.99	4.75	4.71	.....	.....		
	17	92 Leonis	RC	4.5	7.1	9.8	15.2	17.9	20.6	28.6	31.1	33.9	36.4	11. 35. 20.52			20.52				11. 35. 25.23	- 2.69	
	18	β Leonis	RC	27.7	30.1	32.8	37.9	40.4	43.1	50.8	53.2	55.9	58.5	11. 43. 43.05			43.12	47.78	4.66		.....	.....	
	19	Piazz XXIII. 218 S.P.	RC	...	...	...	8.1	17.9	27.2	46.2	...	...	...	11. 47. 8.12			10.14				23. 47. 14.85	+ 5.92	
	20	Groomb. 4232 S.P.	RC	...	...	...	26.3	46.0	52.8	59.4	...	...	...	12. 0. 46.11			47.52				0. 0. 52.22	+ 3.63	
	21	3 Comae	RC	...	...	1.0	6.0	8.7	11.4	19.0	21.6	...	...	12. 5. 11.29			11.34				12. 5. 16.04	- 2.55	
	22	Groomb. 21 S.P.	RC	...	...	...	12.6	...	36.6	42.9	54.9	...	...	12. 8. 30.70			31.98				0. 8. 36.68	+ 3.13	
	23	11 Comae	RC	9.9	12.5	15.1	20.3	22.9	25.7	33.5	36.0	38.5	41.3	12. 15. 25.58			25.62				12. 15. 30.32	- 2.55	
	24	Lacaille 5144	RC	...	...	...	...	...	...	57.3	59.9	2.5	5.6	12. 19. 48.84			49.33				12. 19. 54.03	- 2.17	
	25	21 Virginis	RC	6.9	9.5	11.9	16.9	19.4	21.9	29.5	32.0	34.3	37.0	12. 28. 21.94			22.24				12. 28. 26.94	- 2.21	
	26	26 Comae	RC	38.7	41.5	44.1	49.5	52.0	54.6	2.7	5.2	8.0	10.6	12. 33. 54.70			54.71				12. 33. 59.41	- 2.56	
	27	34 Virginis	RC	42.0	44.5	47.0	52.1	54.6	57.2	...	...	12.4	27.7	12. 41. 57.20			57.31				12. 42. 2.01	- 2.39	
	28	37 Comae	RC	58.4	1.4	4.2	10.0	13.1	...	...	...	...	...	12. 55. 15.90			15.81				12. 55. 20.51	- 2.70	
	29	σ Ophiuchi	AC	...	...	...	...	24.7	27.1	29.8	32.2	46.9	2.0	17. 21. 17.33			17.51	22.25	4.74	4.72†	.....	.....	
	30	α Ophiuchi	AC	47.1	49.8	52.3	57.2	0.0	2.5	10.1	12.6	15.1	17.8	17. 30. 2.46			2.57	7.28	4.71		.....	.....	
	Mar. 10	31	⊙ 1 L	H	30.1	32.6	35.1	40.1	42.6	45.1	52.4	55.0	57.4	0.1	23. 23. 45.06	(- 3.08)	} 50.17			4.56	23. 24. 54.74	.....	
32		⊙ 2 L	H	39.9	42.1	44.7	49.8	52.1	54.6	2.2	4.7	7.0	9.6	23. 25. 54.68							.....		
33		Polaris	H	23.4	34.9	46.9	11.8	20.0	31.4	52.3	0.1	10.2	...	1. 20. 2.74			43.33	47.87	4.54	4.57	.....	.....	
34		κ Orionis	J	30.4	32.9	...	40.3	42.9	45.4	53.1	...	57.9	0.6	5. 42. 45.45			45.80	50.55	4.75	4.82	.....	.....	
35		α Orionis	J	13.7	16.2	18.6	23.7	26.1	28.7	36.3	38.6	41.1	43.7	5. 49. 28.68			28.89	33.77	4.88		.....	.....	
36		ν Geminorum	H	28.4	31.1	33.7	38.9	41.6	44.1	52.1	54.8	57.4	0.1	6. 22. 44.23			44.33	48.91	4.58	4.57	.....	.....	
37		γ Geminorum	H	23.7	26.3	28.9	34.0	36.6	39.1	46.9	49.4	52.0	54.7	6. 31. 39.17			39.30	43.85	4.55		.....	.....	
38		26 Geminorum	H	2.3	5.0	7.6	12.7	15.4	18.0	25.9	28.3	31.1	33.8	6. 36. 18.02			18.15				6. 36. 22.72	- 1.70	
39		Sirius	H	14.9	17.5	20.0	...	...	30.3	...	40.6	43.1	45.6	6. 40. 30.30			30.71				6. 40. 35.28	- 1.36	
40		γ Cygni	B	...	...	...	...	...	...	34.1	37.4	40.2	43.8	20. 18. 24.39			24.29				20. 18. 28.87	+ 0.64	
41		α Cygni	B	26.6	30.0	33.6	40.6	44.0	47.6	58.0	1.5	4.9	8.5	20. 37. 47.55			47.39				20. 37. 51.97	+ 0.97	
Mar. 11	42	136 Tauri	B	27.4	30.1	33.0	38.5	41.4	44.2	52.6	55.3	58.0	0.9	5. 46. 44.15			44.20			4.58	5. 46. 48.78	- 1.47	
	43	β Aurigae	B	30.1	33.7	37.2	44.1	47.8	51.4	...	...	...	...	5. 51. 51.21			51.05				5. 51. 55.63	- 1.77	
Mar. 12	44	Pollux	AC	...	40.6	43.4	48.9	51.8	54.8	...	...	...	...	7. 38. 54.65	(- 2.23) [+ 3.35]	54.63	59.36	4.73	4.84	.....	.....		
	45	κ Leonis	AC	17.1	20.0	22.8	28.1	...	...	42.2	...	...	...	9. 18. 33.80			33.79			[- 0.06]	9. 18. 38.61	- 2.67	
	46	α Hydrae	AC	10.6	13.1	15.7	...	...	...	...	...	...	55.6	9. 22. 25.64			25.78	30.64	4.86		.....	.....	
	47	ι Hydrae	AC	15.1	17.6	20.0	24.9	27.3	29.9	37.4	39.9	42.1	44.6	9. 34. 29.89			30.01				9. 34. 34.83	- 2.20	
	48	ο Leonis	AC	18.4	21.0	23.5	28.4	31.1	33.6	41.1	43.8	46.0	48.6	9. 35. 33.56			33.62	38.34	4.72		.....	.....	
	49	μ Leonis	AC	...	...	38.2	43.5	46.1	48.9	57.2	59.9	2.6	5.7	9. 46. 48.98			48.97	53.68	4.71		.....	.....	

Correction for passage of Semidiameter, No. 13, — 73".38.

13. Correction to R.A. on true meridian, + 0".02.

15, 16, 28, 40, 42, 43. Cloudy.

33. Observed over wire U with the transit-micrometer set to readings 35".940, 36".018, 36".141, 36".350, 36".433, 36".542, 36".700, 36".780, 36".855.

44. Faint.

13, 24, 27. Very faint; cloudy.

27. Observed over wires O, P, Q, R, S, T, X and Y.

46. Observed over wires O, P, Q and Y.

14. Observed over wires M, N, R, S, T, W, X and Y.

20. Observed over wires U, V, W, X, Y and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation.	Azimuth.						
															(Level).							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
s	s	s	s	s	s	s	s	s	s	s	h	m	s	"	s	s	s	s	h	m	s	s
1898	Mar. 12	1	Piazzi IX. 187 ...	AC	17.2	25.9	34.2	51.7	0.2	8.6	34.9	43.7	51.8	1.1	9.49. 8.89	+ 0.48	8.22			4.84	9.49. 13.04	- 7.58
		2	Groomb. 3635 S.P.	AC	...	...	...	44.0	1.4	7.5	13.5	...	...	...	9.54. 1.58	(- 2.23)	2.13			[- 0.06]	21.54. 6.95	+ 3.21
		3	Groomb. 3668 S.P.	AC	...	...	...	...	16.1	22.0	...	40.1	46.0	51.6	9.59. 16.20	[+ 3.35]	16.76				21.59. 21.58	+ 3.27
		4	Groomb. 3730 S.P.	AC	...	...	...	...	20.5	25.8	30.2	40.1	44.8	49.4	10.11. 20.88		21.32				22.11. 26.13	+ 2.36
		5	42 Leonis	AC	57.0	59.7	2.1	7.2	10.0	12.4	20.1	22.7	25.1	27.9	10.16. 12.43		12.47				10.16. 17.28	- 2.55
		6	34 Sextantis ...R.	AC	57.6	0.0	2.4	7.3	10.0	12.4	...	...	...	...	10.37. 12.40		12.69	17.63	4.94		.....	
		7	54 Leonis .....R.	AC	40.2	42.9	45.6	51.4	54.0	56.8	...	...	...	...	10.49. 56.70		57.00				10.50. 1.81	- 2.80
		8	Lalande F. 4457-8 S.P.R.	AC	...	...	...	18.8	10.4	28.3	45.9	...	...	...	11.15. 10.79		11.00				23.15. 15.81	+ 12.16
		9	β Leonis	H	27.8	30.2	32.8	38.0	40.7	43.3	51.0	53.5	56.3	59.0	11.43. 43.27		43.31	47.80	4.49	4.47	.....	
		10	β Virginis	H	59.6	2.1	4.9	...	...	...	...	...	...	...	11.45. 14.58		14.68	19.03	4.35		.....	
		11	γ Ursæ Majoris...	AC	...	...	...	...	...	21.4	33.9	38.1	42.2	46.5	11.48. 2.16		20.94			4.84	11.48. 25.75	- 4.09
		12	π Virginis	AC	...	...	20.1	25.1	27.6	30.0	37.6	40.0	...	...	11.55. 30.08		30.16	35.02	4.86		.....	
		13	ο Virginis	AC	37.2	39.6	42.1	47.1	49.8	52.2	59.8	2.1	4.6	7.3	11.59. 52.19		52.26	57.12	4.86		.....	
		14	3 Comæ	AC	55.6	58.2	0.9	6.0	8.6	11.3	19.1	21.6	24.1	26.8	12.5. 11.23		11.26				12.5. 16.07	- 2.58
		15	6 Comæ	AC	25.5	28.1	30.6	35.9	38.4	41.0	48.6	51.2	53.7	56.2	12.10. 40.93		40.97				12.10. 45.78	- 2.54
		16	11 Comæ	AC	9.9	12.5	15.0	20.1	22.9	25.5	33.3	36.0	38.5	41.2	12.15. 25.50		25.53				12.15. 30.34	- 2.58
		17	Carrington 1852..	AC	...	...	...	34.1	55.5	15.3	20.0	...	...	...	12.21. 16.30		14.50				12.21. 19.31	- 15.97
		18	Piazzi O. 112 S.P.	AC	...	...	58.0	2.9	18.1	23.5	28.4	39.1	...	...	12.29. 18.31		18.79				0.29. 23.60	+ 2.34
		19	28 Virginis	AC	17.3	19.6	22.1	27.1	29.6	32.0	39.6	42.1	44.6	47.1	12.36. 32.12		32.26				12.36. 37.07	- 2.26
		20	7 Draconis	AC	...	...	55.0	7.6	13.9	20.4	39.9	46.3	...	...	12.43. 20.55		20.09				12.43. 24.90	- 5.35
		21	Bradley 90 S.P....	AC	...	...	...	...	43.9	49.1	54.1	4.0	9.2	14.2	12.46. 43.98		44.44				0.46. 49.25	+ 2.12
		22	Groomb. 192 S.P.	AC	11.5	17.6	23.5	29.5	47.8	53.9	59.9	12.0	17.9	24.0	12.51. 47.73		48.30				0.51. 53.11	+ 2.76
		23	B.D. + 59° No. 176 S.P.	AC	...	...	...	...	4.9	9.6	14.9	24.3	29.5	34.8	12.58. 4.93		5.39				0.58. 10.20	+ 1.95
		24	g Virginis	AC	8.9	11.4	13.9	18.9	21.4	23.9	31.5	33.9	36.4	39.0	13.2. 23.93		24.09				13.2. 28.90	- 2.20
		25	Polaris S.P.	AC	18.8	26.7	37.0	44.0	12.5	22.3	31.9	41.5	...	...	13.19. 31.17		41.55	46.42	4.87		.....	
Mar. 14	26	Polaris	R	44.6	4.8	20.2	34.5	47.4	2.5	32.0	44.7	58.0	56.4	1.19. 55.65	[+ 5.14]	42.09	45.64	3.55	4.48	1.19. 46.57	+ 68.21	
	27	π Leonis	R	25.8	28.2	30.8	35.8	38.2	40.9	48.2	50.7	53.2	56.0	9.54. 40.79		40.95	45.41	4.46	[- 0.06]	.....		
	28	Regulus	R	32.6	35.1	37.9	42.7	45.5	47.8	55.5	58.0	0.4	3.1	10.2. 47.87		48.00	52.45	4.45		.....		
	29	π Virginis	R	15.5	18.0	20.3	25.3	28.0	30.4	38.0	40.2	42.8	45.4	11.55. 30.40		30.56	35.03	4.47		.....		
	30	Bradley 1672	R	13.7	39.4	55.8	12.7	33.6	50.1	5.9	17.8	32.4	46.1	12.15. 28.05		18.35				12.15. 22.80	- 60.45	
	31	Groombridge 1936	R	38.1	42.6	47.2	56.0	0.6	5.1	18.6	23.1	27.6	32.2	12.51. 5.13		4.86				12.51. 9.31	- 3.99	
	32	θ Virginis	R	16.5	18.8	21.5	26.3	29.0	31.4	38.9	41.4	44.0	46.3	13.4. 31.42		31.66	36.07	4.41		.....		
	33	Polaris S.P.	R	52.9	15.5	36.6	54.2	11.1	45.1	0.7	13.9	26.5	39.8	13.19. 27.95		41.86	45.42	3.56		1.19. 46.31	+ 68.43	
Mar. 15	34	⊙ 1 L	T	50.0	52.6	55.0	0.0	2.5	5.0	12.4	14.8	17.3	20.0	23.42. 4.97		9.72				23.43. 14.14		
	35	⊙ 2 L	T	59.2	1.5	4.0	9.1	11.6	14.1	21.5	24.0	26.3	29.1	23.44. 14.05								
Mar. 16	36	η Persei	B	35.5	40.0	44.2	52.9	57.4	1.8	14.9	19.3	23.4	28.0	2.43. 1.76	+ 0.51	1.44			4.53	2.43. 5.97	+ 0.62	
	37	β Ursæ Min. S.P.	B	...	13.1	22.1	...	...	8.3	...	...	...	...	2.50. 59.19	(- 2.81)	0.67			[- 0.02]	14.51. 5.20	- 4.69	
	38	α Ceti	B	31.3	33.6	36.2	41.1	43.6	46.1	...	...	...	...	2.56. 46.09	[+ 5.89]	46.28	50.79	4.51		2.56. 50.81	- 0.29	
	39	β Persei	B	0.1	3.3	6.5	13.1	16.2	19.6	29.4	32.6	35.9	39.2	3.1. 19.60		19.49				3.1. 24.02	- 0.01	
	40	α Persei	B	26.5	30.2	34.1	41.7	45.6	49.5	0.8	4.6	8.3	12.2	3.16. 49.36		49.14				3.16. 53.67	+ 0.04	
	41	σ Persei	B	48.1	51.9	55.5	2.8	6.4	10.2	21.2	24.9	28.3	32.2	3.23. 10.17		9.98				3.23. 14.51	- 0.07	
	42	ψ Persei	B	39.5	43.2	46.9	54.1	58.0	1.8	12.8	16.2	20.0	23.9	3.29. 1.66		1.47				3.29. 6.00	- 0.12	
	43	δ Persei	B	5.1	8.6	12.3	19.6	23.4	27.1	38.0	41.5	45.1	49.0	3.35. 26.99		26.80				3.35. 31.33	- 0.20	
	44	η Tauri	B	57.7	0.5	3.1	8.5	11.3	14.0	22.1	24.8	27.5	30.2	3.41. 13.98		14.04	18.50	4.46		3.41. 18.57	- 0.46	
	45	ζ Persei	B	14.1	17.0	19.9	25.8	28.6	31.7	40.2	43.2	46.0	49.1	3.47. 31.57		31.56				3.47. 36.09	- 0.47	
	46	ε Persei	B	...	32.3	35.5	42.0	45.2	48.2	58.0	1.2	4.4	...	3.50. 48.37		48.27				3.50. 52.80	- 0.44	
	47	μ Persei	B	49.6	53.3	56.9	4.6	8.1	11.9	...	...	...	...	4.7. 11.86		11.66				4.7. 16.19	- 0.53	
	48	δ Orionis	B	23.0	25.5	28.0	32.9	35.4	37.9	45.3	47.8	50.1	52.7	5.26. 37.87		38.09	42.53	4.44		5.26. 42.62	- 1.03	
	49	φ ¹ Orionis	B	...	...	...	...	...	...	10.6	13.1	15.5	18.1	5.29. 3.07		3.23				5.29. 7.76	- 1.11	
	50	ι Orionis	B	...	...	...	...	...	...	24.5	26.9	29.3	32.0	5.30. 17.01		17.27				5.30. 21.80	- 1.01	
	51	ω Orionis	B	23.1	25.6	28.1	33.1	35.6	38.1	45.5	48.0	50.3	53.0	5.33. 38.05		38.24				5.33. 42.77	- 1.10	

March 13. Clock Hardy returned.

23. Observed in partially illuminated field.

25. Observed over wire W with the transit-micrometer set to readings 35° 972, 35° 901, 35° 830, 35° 787, 35° 546, 35° 446, 35° 346, 35° 289.

26. Cloudy; very unsteady. Observed over wire V with the transit-micrometer set to readings 35° 725, 35° 890, 36° 030, 36° 162, 36° 269, 36° 403, 36° 662, 36° 758, 36° 872, 37° 410.

30. Observed over wire S with the transit-micrometer set to readings 34° 964, 35° 283, 35° 484, 35° 690, 35° 945, 36° 134, 36° 314, 36° 465, 36° 650, 36° 815.

33. Observed over wire U with the transit-micrometer set to readings 36° 056, 35° 853, 35° 699, 35° 510, 35° 378, 35° 030, 34° 947, 34° 825, 34° 714, 34° 603.

34, 35. Very tremulous.

37, 42, 43, 44, 46, 47. Cloudy.

38. Very faint; cloudy.

MONTH DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.			Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.				Collimation. (Level).	[Azimuth].								
														s	s	s							s	s	s	
																		h					m	s		
Mar. 16	1	χ ² Orionis	B	28.1	30.8	33.5	38.6	41.3	44.0	51.9	54.4	57.1	59.9	5.48.43.97	+ 0.51	44.06			4.53	5.48.48.59	—	1.32				
	2	59 Orionis	B	42.0	44.4	46.9	51.8	54.2	56.8	4.2	6.6	9.1	11.7	5.52.56.78	(— 2.81)	56.99			[— 0.02]	5.53.1.52	—	1.19				
	3	μ Orionis	B	21.2	23.7	26.2	31.2	33.8	36.2	43.8	46.2	48.8	51.4	5.56.36.26	[+ 5.89]	36.41				5.56.40.94	—	1.28				
	4	χ ⁴ Orionis	B	...	28.1	30.9	36.0	38.8	41.5	49.3	52.0	54.5	...	5.57.41.41		41.50				5.57.46.03	—	1.38				
	5	ν Orionis	B	19.4	22.0	24.5	29.6	32.1	34.8	42.4	44.9	47.5	50.1	6.1.34.74		34.86	39.34	4.48		6.1.39.38	—	1.36				
	6	δ Ursæ Min. S.P. ...	B	38.0	44.6	49.1	10.5	15.6	40.4	46.5	59.8	7.3	13.5	6.5.30.65		36.86	41.44	4.58		.....						
	7	Piazzi V. 343	B	...	...	...	...	...	49.5	3.9	8.6	13.5	18.5	6.6.49.41		49.01				6.6.53.53	—	2.21				
	8	Lalande 12000 ...	B	...	...	...	...	...	25.9	33.6	36.0	38.6	41.4	6.11.25.82		26.17				6.11.30.69	—	1.13				
	9	10 Monocerotis...	B	31.0	33.5	36.0	40.9	43.6	46.0	53.6	55.9	58.1	0.9	6.22.45.96		46.21				6.22.50.73	—	1.29				
	10	11 Monocerotis (3rd Star)	B	28.5	31.0	33.5	38.4	40.9	43.4	51.1	53.5	56.0	58.4	6.23.43.48		43.74				6.23.48.26	—	1.27				
	11	13 Monocerotis...	B	58.6	1.1	3.6	8.4	11.0	13.6	21.1	23.5	26.0	28.5	6.27.13.55		13.71				6.27.18.23	—	1.43				
	12	Groombridge 1193	B	28.0	32.5	37.1	46.1	50.7	55.4	8.9	13.4	17.8	22.5	6.31.55.26		54.90				6.31.59.42	—	2.46				
	13	Piazzi XVIII. 173 S.P.	B	...	...	23.9	29.5	47.4	53.1	59.4	11.2	...	...	6.35.47.40		48.36				18.35.52.88	+	0.78				
	14	W. B. (2) VI. 1169	B	57.9	0.4	2.9	...	10.6	13.3	...	...	...	...	6.40.13.36		13.46				6.40.17.98	—	1.64				
	15	Sirius	B	...	...	...	...	27.8	30.2	38.2	40.8	43.4	46.0	6.40.30.43		30.78				6.40.35.30	—	1.25				
	16	14 Lyncis	B	24.1	29.0	33.9	43.7	48.6	53.5	8.1	13.0	17.8	22.8	6.43.53.47		53.06				6.43.57.58	—	2.76				
	17	60 Aurigæ	B	...	...	...	...	...	12.5	15.6	18.7	22.1	...	6.46.3.01		2.92				6.46.7.44	—	2.02				
	18	61 Aurigæ	B	27.8	31.0	34.2	40.3	43.6	46.9	56.3	59.6	2.6	6.0	6.46.46.84		46.75				6.46.51.27	—	2.03				
	19	37 Geminorum ...	B	...	...	...	...	...	3.1	5.8	8.6	25.0	41.5	6.48.52.20		52.24				6.48.56.76	—	1.80				
	20	μ Canis Majoris...	B	2.0	4.4	7.0	12.0	14.5	17.1	24.9	27.4	29.9	32.5	6.51.17.18		17.50				6.51.22.02	—	1.35				
	21	Cephei 51	B	36.9	44.0	47.8	51.8	8.0	15.9	51.1	55.0	58.5	2.3	6.52.10.30		3.15	6.23	3.08		.....						
	22	Groombridge 1254	B	13.4	17.7	22.0	30.6	35.0	39.5	52.1	56.5	0.9	5.4	6.54.39.33		39.02				6.54.43.54	—	2.66				
	23	Piazzi VI. 301 ...	B	57.4	1.6	...	...	...	22.1	...	...	42.4	46.9	6.57.22.10		21.83				6.57.26.35	—	2.59				
	24	Oeltz. Arg. (N.) 7501...	B	...	...	6.0	14.1	18.2	...	34.6	38.8	...	...	6.57.22.36		22.09				6.57.26.61	—	2.59				
	25	51 Geminorum ...	AC	5.7	8.1	10.8	15.9	18.5	21.1	28.9	31.4	34.0	36.6	7.7.21.11		21.22	25.71	4.49	4.49†	.....						
	26	Piazzi VII. 29 ...	B	...	...	40.0	44.9	47.5	50.0	57.4	0.0	...	...	7.8.49.98		50.17			4.53	7.8.54.69	—	1.61				
	27	λ Geminorum	B	48.6	51.1	53.8	58.9	1.6	4.2	12.0	14.4	17.0	19.8	7.12.4.15		4.26				7.12.8.78	—	1.81				
	28	W.B.(2) VII. 316-7	B	...	22.6	25.2	30.2	32.9	35.6	43.3	45.9	48.3	...	7.12.35.52		35.63				7.12.40.15	—	1.81				
	29	W.B.(2) VII. 327...	B	...	...	...	2.9	5.5	8.3	16.4	...	...	...	7.13.8.20		8.36				7.13.12.88	—	1.90				
	30	δ Geminorum ...	AC	36.0	38.7	41.4	46.7	49.4	52.0	0.1	2.8	5.3	8.1	7.13.52.06		52.13	56.59	4.46	4.49†	.....						
	31	W. B. (2) VII. 449-50	B	...	...	...	20.0	22.8	25.6	34.0	...	...	...	7.17.25.61		25.63			4.53	7.17.30.15	—	2.03				
	32	W. B. (2) VII. 436-8...	B	...	...	...	38.9	41.6	44.3	53.0	...	...	...	7.17.44.46		44.48				7.17.49.00	—	2.04				
	33	η Canis Majoris...	B	...	...	...	...	...	55.4	3.9	6.5	9.2	12.1	7.19.55.25		55.69				7.20.0.21	—	1.34				
	34	λ Ursæ Min. S.P. ...	B	17.9	22.6	27.0	31.1	51.9	55.5	59.2	19.3	23.7	28.1	7.25.27.46		47.57	53.73	6.16		.....						
	35	Groombridge 1330	B	51.4	56.0	0.2	9.1	13.6	18.0	...	...	...	...	7.28.17.99		17.66				7.28.22.18	—	3.10				
	36	Groombridge 1332	B	...	...	...	...	...	34.8	45.1	48.4	51.8	55.3	7.28.34.87		34.74				7.28.39.26	—	2.51				
	37	Groomb. 2899 S.P.	B	...	...	...	...	...	55.1	0.4	6.0	38.9	...	7.33.33.13		34.02				19.33.38.54	+	1.48				
	38	Piazzi VII. 132...	B	...	...	...	40.8	56.6	11.4	56.5	...	...	...	7.39.11.38		9.44				7.39.13.96	—	8.81				
	39	Groombridge 1344	B	...	...	...	...	...	46.0	59.5	13.3	28.0	...	7.40.4.05		2.25				7.40.6.77	—	8.32				
	40	ξ Argûs	B	...	...	...	46.2	48.9	51.7	0.0	2.6	5.1	8.0	7.44.51.69		52.10	56.66	4.56		7.44.56.62	—	1.49				
	41	Piazzi VII. 245...	B	20.0	22.5	25.1	30.1	32.7	35.4	43.0	45.4	48.0	50.5	7.47.35.28		35.60				7.47.40.12	—	1.62				
	42	14 Canis Minoris...	B	39.3	41.8	44.2	49.1	51.6	54.1	1.3	4.0	6.4	9.0	7.52.54.09		54.30				7.52.58.82	—	1.82				
	43	Groombridge 1119	B	20.5	25.2	29.4	33.3	37.7	3.0	7.7	11.6	29.4	33.6	7.55.10.00		50.71				7.54.55.23	—	75.61				
	44	Groombridge 1399	B	50.7	55.6	0.5	10.1	15.1	20.0	34.7	39.5	44.3	49.5	7.57.20.02		19.61				7.57.24.13	—	3.68				
	45	Groomb. 3051 S.P.	B	45.4	51.1	56.7	2.2	18.6	24.1	30.0	41.0	46.6	52.3	8.3.18.78		19.67				20.3.24.19	+	1.90				
	46	Jupiter 1 L.....	B	40.4	...	45.8	...	...	56.3	...	7.0	...	12.2	8.5.56.34						8.6.2.50						
	47	Jupiter 2 L.....	B	43.6	...	48.8	...	...	59.5	...	10.0	...	15.4	8.5.59.48		57.98										
	48	β Cancri	B	34.7	37.2	39.8	44.8	47.3	50.0	57.4	59.9	2.2	5.0	8.10.49.84		49.99	54.48	4.49		8.10.54.51	—	2.00				
	49	Piazzi VIII. 34...	B	44.5	47.0	49.4	54.4	56.9	59.5	7.0	9.5	12.0	14.5	8.11.59.48		59.63				8.12.4.15	—	2.01				
	50	Piazzi VIII. 36...	B	27.3	29.9	32.3	37.4	39.9	42.3	49.9	52.3	54.9	57.5	8.12.42.38		42.53				8.12.47.05	—	2.02				
	51	Groomb. 3168 S.P.	B	...	...	...	...	7.5	15.0	22.2	37.3	44.5	52.1	8.18.7.56		8.75				20.18.13.27	+	3.24				
	52	Groomb. 3182 S.P.	B	51.6	56.8	1.5	...	...	...	...	40.9	46.0	50.5	8.22.21.20		22.00				20.22.26.52	+	1.72				
	53	Groomb. 3183 S.P.	B	11.1	16.4	21.2	...	...	...	...	0.7	5.9	10.6	8.22.40.96		41.76				20.22.46.28	+	1.73				
	54	o Leonis	B	...	...	23.5	28.5	31.2	33.7	41.2	43.8	...	...	9.35.33.66		33.80	38.31	4.51		9.35.38.32	—	2.33				

6. Observed over wire U with the transit-micrometer set to readings 36° 7'36, 36° 5'70, 36° 4'56, 35° 9'50, 35° 8'25, 35° 2'37, 35° 0'86, 34° 7'80, 34° 5'96, 34° 4'40.
 9, 10. Very faint; cloudy.
 21. Observed over wire T with the transit-micrometer set to readings 39° 5'20, 39° 6'89, 39° 7'48, 39° 8'31, 40° 1'33, 40° 2'94, 41° 0'00, 41° 0'50, 41° 1'39, 41° 2'10.
 34. Observed over wire R with the transit-micrometer set to readings 35° 0'89, 35° 0'40, 35° 0'11, 34° 9'73, 34° 8'49, 34° 8'00, 34° 7'81, 34° 6'35, 34° 5'97, 34° 5'70.
 37. Observed over wires Q, P, O and N.
 43. Observed over wire T with the transit-micrometer set to readings 35° 2'20, 35° 2'70, 35° 3'03, 35° 3'34, 35° 3'61, 35° 3'50, 35° 3'50, 35° 6'16, 35° 7'40, 35° 7'78.
 47. A correction of + 0.02, for defect of illumination, has been applied in forming the concluded transit.
 52, 53. Faint; cloudy.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire. h m s	Error of Collimation. (Level). [Azimuth]. s	Seconds of Transit Corrected. s	Tabular R.A. of Known Stars. s	Clock appa- rently Slow. s	Adopted Clock Slow at 0° Sidereal and (Losing Rate). s	Apparent R.A. of Centre from the Observation. h m s	Correction for Reduc- tion to Mean R.A. 1896. s
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				s	s	s	s	s	s	s	s	s	s								
Mar. 16	1	Groombridge 1697	B	...	...	...	...	...	26.2	48.5	56.0	3.1	10.5	10.46.26.34	+ 0.51	25.52			4.53	10.46.30.04	- 6.71
	2	α Crateris	B	...	...	...	34.4	37.0	39.7	47.6	50.1	52.6	55.5	10.54.39.72	(- 2.81)	40.07			[- 0.02]	10.54.44.59	- 2.19
	3	Bradley 1531	B	2.9	5.8	8.4	13.9	16.8	19.5	27.8	30.2	33.1	36.1	10.57.19.46	[+ 5.89]	19.88				10.57.24.40	- 2.16
	4	χ Leonis	B	21.9	24.4	26.9	31.8	34.2	36.8	44.3	46.8	49.3	51.9	10.59.36.84		37.00	41.56	4.56		10.59.41.52	- 2.45
	5	Oeltz. Arg. (N.) 11438	B	34.1	40.6	47.2	0.2	6.8	13.4	...	...	...	...	11.2.13.37		12.69				11.2.17.21	- 6.06
	6	Lalande F. 1812	B	26.9	33.4	...	53.0	59.8	6.1	25.9	...	38.8	45.4	11.3.6.19		5.51				11.3.10.03	- 6.06
	7	β Crateris	B	...	...	...	...	...	29.9	37.9	40.5	43.1	45.9	11.6.29.85		30.24				11.6.34.76	- 2.18
	8	Radcliffe 2647	B	39.5	43.7	47.9	...	...	...	...	20.9	25.1	29.3	11.10.4.42		4.14				11.10.8.66	- 4.11
	9	Groombridge 1755	B	...	...	...	56.5	0.6	4.6	17.4	...	...	...	11.10.4.79		4.51				11.10.9.03	- 4.11
	10	Groomb. 4040 S.P.	B	5.7	14.0	22.7	30.9	56.8	5.1	13.2	30.7	39.4	47.8	11.13.56.59		57.95				23.14.2.47	+ 5.30
	11	γ Crateris	B	22.9	25.5	28.1	33.2	35.9	38.4	46.1	48.4	51.3	54.0	11.19.38.39		38.74				11.19.43.26	- 2.23
	12	83 Leonis	B	...	...	...	...	...	...	34.5	37.0	39.5	42.1	11.21.27.15		27.34				11.21.31.86	- 2.40
	13	Groombridge 1782	B	...	...	...	7.4	24.4	41.6	33.5	...	...	...	11.24.41.79		39.54				11.24.44.06	- 14.17
	14	Groomb. 4088 S.P.	B	46.8	52.9	58.6	4.6	22.1	28.0	34.0	45.8	51.6	57.6	11.27.22.17		23.12				23.27.27.64	+ 3.22
	15	Groombridge 1812	B	54.2	57.9	1.4	8.2	12.0	15.7	26.1	29.7	33.1	36.9	11.33.15.54		15.38				11.33.19.90	- 3.56
	16	Groombridge 1813	B	53.9	57.4	0.9	8.0	11.6	15.1	25.9	29.3	32.5	36.4	11.34.15.12		14.96				11.34.19.48	- 3.57
	17	ζ Crateris	B	11.3	13.9	16.5	21.5	24.1	26.9	34.7	37.2	39.8	42.5	11.39.26.85		27.20				11.39.31.72	- 2.25
	18	Groombridge 1827	B	17.3	21.9	26.0	34.6	38.8	43.3	56.1	0.2	4.5	9.0	11.44.43.19		42.88				11.44.47.40	- 4.18
	19	Oeltz. Arg. (N.) 12144	B	7.4	11.7	15.9	24.2	28.4	32.9	45.5	49.8	53.9	58.1	11.47.32.80		32.50				11.47.37.02	- 4.12
	20	γ Ursæ Majoris	B	...	0.1	4.2	12.6	17.3	21.5	34.2	38.1	42.4	...	11.48.21.33		21.03				11.48.25.55	- 4.12
	21	1 Comæ	B	...	...	...	...	...	...	36.1	38.9	55.0	10.6	11.56.22.74		22.80				11.56.27.32	- 2.73
	22	ο Virginis	B	37.4	40.0	42.4	47.5	50.0	52.4	0.0	2.4	4.9	7.5	11.59.52.46		52.62	57.15	4.53		11.59.57.14	- 2.49
	23	Bradley 1634	R.	11.9	24.5	36.2	1.0	13.1	25.2	...	...	...	...	12.7.24.96		25.10				12.7.29.62	- 9.95
	24	Bradley 1634	B	...	...	...	...	...	...	2.5	14.4	26.2	38.8	12.7.26.14		24.62				12.7.29.14	- 9.95
	25	Bradley 1650	R.	13.7	23.6	33.1	53.5	3.2	14.1	...	...	...	...	12.14.13.66		13.86				12.14.18.38	- 8.34
	26	Bradley 1650	B	...	...	...	...	...	...	44.7	54.4	4.4	14.9	12.14.14.51		13.29				12.14.17.81	- 8.34
	27	γ Draconis	B	42.1	48.5	55.1	8.0	14.2	20.5	40.0	46.3	52.8	59.5	12.43.20.73		20.06				12.43.24.58	- 5.43
	28	Bradley 90 S.P.	B	14.1	19.2	24.2	29.1	44.1	49.5	54.5	4.4	9.4	14.5	12.46.44.28		45.09				0.46.49.61	+ 2.15
	29	Groomb. 182 S.P.	B	...	...	...	...	...	28.1	33.4	42.6	47.6	52.4	12.50.23.28		24.06				0.50.28.58	+ 2.01
	30	Groomb. 192 S.P.	B	...	...	...	...	...	...	59.8	12.0	18.0	23.9	12.51.47.79		48.77				0.51.53.29	+ 2.80
	31	Groomb. 210 S.P.	B	58.9	8.0	16.7	25.5	51.6	0.2	9.4	26.7	35.4	44.1	12.55.51.62		53.02				0.55.57.54	+ 4.60
	32	g Virginis	B	9.1	11.8	14.1	19.2	21.8	24.2	31.9	34.2	36.7	39.5	13.2.24.26		24.55				13.2.29.07	- 2.26
	33	θ Virginis	B	16.4	18.9	21.4	26.2	28.8	31.4	38.7	41.1	43.7	46.1	13.4.31.28		31.53	36.09	4.56		13.4.36.05	- 2.27
	34	16 Canum Venaticum	B	...	...	...	6.7	10.0	13.3	22.9	26.0	29.1	32.4	13.5.13.23		13.14				13.5.17.66	- 3.00
	35	γ Hydræ	B	57.4	...	2.5	8.0	10.6	13.5	21.2	24.1	...	29.6	13.13.13.37		13.76				13.13.18.28	- 2.23
	36	Groomb. 296 S.P.	B	12.1	23.9	34.4	45.6	18.9	...	...	...	...	...	13.17.18.90		20.64				1.17.25.16	+ 5.72
	37	Piazzi I. 52 S.P.	B	...	...	...	36.5	58.6	5.6	13.8	...	...	...	13.17.58.61		59.80				1.18.4.32	+ 3.38
	38	Groomb. 307 S.P.	B	...	...	...	...	32.9	41.9	50.5	8.2	16.5	25.6	13.20.32.86		34.26				1.20.38.78	+ 4.22
	39	Polaris S.P.	B	8.7	14.1	...	40.6	45.1	49.5	4.0	8.6	12.2	26.9	13.19.26.62		43.28	44.68	1.40		.....	.....
	40	κ Virginis	B	3.0	5.5	8.0	13.0	15.4	18.1	25.5	28.0	30.5	33.2	14.7.18.03		18.32	22.92	4.60		14.7.22.84	- 2.14
	41	Arcturus	B	36.9	39.5	42.1	47.3	50.0	52.6	...	...	5.7	8.5	14.10.52.64		52.73	57.31	4.58		14.10.57.25	- 2.28
	42	Arcturus ... (E&E)	B	45.5	1.5	17.1	32.9	48.6	4.2	20.0	...	...	...	14.10.52.65		52.74	57.31	4.57		.....	.....
Mar. 17	43	⊙ 1 L.	B	8.3	10.9	13.5	18.3	20.8	23.4	30.7	33.3	35.6	38.3	23.49.23.32	28.07					23.50.32.58	
	44	⊙ 2 L.	B	17.4	20.0	22.4	...	...	...	39.9	...	...	...	23.51.32.37							
Mar. 18	45	α Cancri	B	...	...	35.6	40.6	43.1	45.8	53.4	56.0	...	...	8.52.45.76	[+ 4.29]	45.82	50.18	4.36		4.44†	.....
	46	83 Cancri	B	52.9	55.4	58.0	3.3	5.8	8.5	16.3	18.9	21.4	24.2	9.13.8.48		8.51	13.01	4.50	[+ 0.02]	.....	
	47	83 Cancri ... (E&E)	B	0.1	15.5	31.1	46.8	2.5	18.1	33.6	...	...	...	9.13.8.41		8.44	13.01	4.57		.....	
	48	α Hydræ	B	10.7	13.4	16.0	...	...	...	26.0	...	36.0	38.4	9.22.25.94		26.12	30.60	4.48		.....	
	49	α Hydræ ... (E&E)	B	...	34.0	49.0	4.2	19.2	34.0	...	...	...	...	9.22.25.68		25.86	30.60	4.74		.....	
	50	ο Leonis	B	...	21.1	23.8	28.7	31.3	33.9	41.4	43.9	46.2	...	9.35.33.81		33.88	38.30	4.42		.....	
	51	ε Leonis	B	38.8	41.5	44.1	49.6	52.2	55.1	3.1	5.7	8.5	11.4	9.39.55.01		55.00	59.51	4.51		.....	
	52	ε Leonis ... (E&E)	B	44.6	0.9	17.1	33.4	49.7	5.8	22.1	...	...	...	9.39.54.97		54.96	59.51	4.55		.....	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 42, 47, 49, and 52, + 19^h 82^m : + 21^h 60^m : + 21^h 60^m : and + 21^h 60^m.

17. Faint; cloudy.

21. Observed over wires W, X, Y and Z.

23, 25. Windy.

35. Very faint.

39. Observed over wire P with the transit-micrometer set to readings 36^h 01^m, 35^h 09^m, 35^h 75^m, 35^h 70^m, 35^h 66^m, 35^h 54^m, 35^h 50^m, 35^h 46^m, 35^h 34^m.

43. Cloudy.

44. Very cloudy.

45, 48, 49, 50. Very faint; cloudy.

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at of Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	s	h m s	s						
1893	Mar. 18	1	♄ Leonis.....R.	AC	25.6	28.0	30.6	35.6	38.1	40.5	...	...	...	9. 54. 40.58	+ 0.51	40.95	45.40	4.45	4.53	.....		
		2	Regulus.....R.	AC	2.0	17.2	32.5	34.9	...	...	...	...	10. 2. 47.57	(- 2.81)	47.93	52.44	4.51	[+ 0.02]	.....			
		3	42 Leonis.....AC	...	...	...	...	20.4	23.0	25.6	28.1	43.5	58.9	10. 16. 12.76	[+ 4.29]	12.81	...	...	...	10. 16. 17.35	- 2.53	
		4	45 Leonis.....AC	52.1	54.7	57.1	2.1	4.8	7.3	14.9	17.6	19.9	22.4	10. 22. 7.30		7.37	...	...	...	10. 22. 11.91	- 2.45	
		5	Groomb.3813 S.P.	AC	...	...	...	...	51.1	1.2	11.5	31.2	41.1	51.5	10. 26. 51.21		52.45	...	...	...	22. 26. 56.99	+ 6.38
		6	Groomb.3845 S.P.	AC	...	...	...	...	50.3	...	0.9	12.5	17.7	23.0	10. 33. 50.19		50.86	...	...	...	22. 33. 55.40	+ 2.88
		7	Bradley 3067 S.P.	AC	...	...	...	...	11.1	26.2	40.9	9.9	25.1	...	10. 59. 11.66		13.44	...	...	...	22. 59. 17.98	+ 9.95
		8	♄ Leonis.....AC	17.1	19.6	22.1	27.5	30.1	32.9	40.7	43.5	46.0	48.6	11. 8. 32.82		32.83	37.38	4.55	.....	.....		
		9	♄ Ursæ Majoris...	AC	19.2	22.0	...	...	...	36.5	...	...	51.1	54.1	11. 12. 36.59		36.53	...	...	...	11. 12. 41.07	- 3.00
		10	♄ Ursæ Majoris...	AC	...	...	25.0	30.7	33.9	...	45.6	48.2	...	...	11. 12. 36.69		36.63	...	...	...	11. 12. 41.17	- 3.00
		11	71 Leonis.....AC	...	...	...	...	...	8.2	10.8	13.4	16.0	31.6	11. 17. 0.42		0.45	...	...	...	11. 17. 4.99	- 2.66	
		12	Bradley 3147 S.P.	AC	7.2	12.7	20.7	28.1	11.8	19.8	27.9	34.4	...	...	11. 27. 8.48		13.68	...	...	...	23. 27. 18.22	+ 31.86
		13	Lalande F. 1933..	AC	...	...	40.6	20.1	41.1	59.8	59.5	20.4	...	...	11. 38. 0.33		58.10	...	...	...	11. 38. 2.64	- 16.24
		14	β Leonis.....AC	...	...	...	...	...	...	50.9	53.4	56.0	58.8	11. 43. 43.27		43.32	47.84	4.52	.....	.....		
		15	β Virginis.....AC	59.5	2.0	4.5	9.5	11.9	14.3	21.9	24.1	26.6	29.3	11. 45. 14.37		14.49	19.08	4.59	.....	.....		
		16	Bradley 3194 S.P.	AC	32.8	38.3	45.1	53.1	21.7	28.6	34.9	41.3	...	...	11. 54. 1.50		5.91	...	...	...	23. 54. 10.45	+ 26.07
		17	β Cassiopeiae S.P.	AC	...	6.9	11.4	16.2	30.1	34.9	40.0	49.4	54.0	12. 3. 30.33		30.90	...	...	...	0. 3. 35.44	+ 2.16	
		18	Bradley 1672.....AC	39.7	50.9	4.0	16.8	52.8	9.8	18.1	28.5	...	...	12. 15. 27.03		17.50	...	...	...	12. 15. 22.04	- 60.53	
		19	Lalande 23336-7..	AC	...	25.6	28.0	33.1	...	...	...	...	24.3	12. 23. 38.30		38.53	...	...	...	12. 23. 43.07	- 2.29	
		20	23 Comæ.....AC	22.1	24.8	27.5	32.9	35.6	38.1	46.2	49.0	51.6	54.3	12. 29. 38.22		38.23	...	...	...	12. 29. 42.77	- 2.71	
		21	B.D.+18° No.2636	AC	26.6	29.2	32.0	...	42.1	...	52.6	55.2	58.0	12. 33. 42.25		42.28	...	...	...	12. 33. 46.82	- 2.62	
		22	34 Virginis.....AC	42.1	44.6	47.1	52.2	54.7	57.4	5.0	7.4	10.0	12.6	12. 41. 57.32		57.38	...	...	...	12. 42. 1.92	- 2.51	
		23	γ Comæ.....AC	19.4	22.1	25.0	30.6	33.4	36.1	44.4	47.3	50.0	53.0	12. 46. 36.14		36.11	40.75	4.64	.....	.....		
		24	γ Cassiopeiae S.P.	AC	...	...	...	...	18.0	23.4	28.6	38.5	43.4	12. 50. 18.46		19.06	...	...	...	0. 50. 23.60	+ 2.07	
		25	B.D.+59° No.176 S.P.	AC	...	...	46.4	...	5.6	10.9	15.8	25.2	...	35.0	12. 58. 5.76		6.36	...	...	0. 58. 10.90	+ 1.99	
		26	Polaris S.P.....AC	32.0	39.5	47.1	55.0	26.9	36.9	48.0	56.2	20.2	29.3	13. 19. 27.80		41.31	44.20	2.89	.....	.....		
		27	Venus 2 L.....H	...	...	...	...	...	...	...	...	5.5	8.0	22. 10. 52.81	(- 2.15)	53.03	...	...	4.34 0.00	22. 10. 56.92		
Mar. 19	28	♄ 1 L.....H	H	26.3	28.8	31.3	36.1	38.6	41.1	48.6	50.9	53.4	56.1	23. 56. 41.13		45.80	...	...	...	23. 57. 50.14		
	29	♄ 2 L.....H	H	35.4	37.8	40.1	...	50.1	...	0.0	2.5	5.0	23. 58. 50.14		53.52	57.82	4.30	...	...	4. 29. 57.86	- 0.73	
	30	Aldebaran.....H	H	37.9	40.5	43.1	48.1	50.8	53.5	1.3	3.8	6.2	9.0	4. 29. 53.43		44.84	49.22	4.38	4.40†	.....		
	31	1 Geminorum...D	D	28.6	31.3	34.0	39.5	42.1	44.7	52.8	55.6	58.2	1.0	5. 57. 44.79		34.88	39.29	4.41	...	.....		
	32	γ Orionis.....D	D	19.5	22.0	24.5	29.7	32.1	34.9	42.4	44.9	47.5	50.2	6. 1. 34.78		38.02	42.52	4.50	4.34	.....		
	33	♄ Ursæ Min. S.P..	H	44.1	50.9	57.1	11.5	25.2	1.7	7.1	14.8	33.6	41.0	6. 5. 33.56		37.26	41.57	4.31	...	6. 16. 41.60	- 1.49	
	34	μ Geminorum...H	H	21.1	23.8	26.4	31.8	34.5	37.1	45.3	48.0	50.6	53.4	6. 16. 37.21		3.87	8.22	4.35	...	6. 18. 8.21	- 1.09	
	35	β Canis Majoris..	H	48.0	50.5	53.1	58.6	1.0	3.6	11.5	14.0	16.4	19.2	6. 18. 3.60		28.67	...	...	...	6. 20. 33.01	- 2.06	
	36	Piazzi VI. 83.....H	H	4.5	8.5	12.6	20.7	24.7	28.9	41.0	45.1	49.1	53.3	6. 20. 28.86		43.88	...	...	...	6. 23. 48.22	- 1.22	
	37	11 Monocerotis (18dStar)	H	28.6	31.2	33.6	38.6	41.2	43.8	51.2	53.7	56.1	58.8	6. 30. 41.70		41.79	...	...	...	6. 30. 46.13	- 1.50	
	38	W. B. (2) VI. 83..	H	26.2	28.8	31.4	36.4	39.1	41.8	49.5	52.0	54.5	57.2	6. 30. 41.70		39.27	43.71	4.44	4.40	.....		
	39	γ Geminorum...S	S	23.5	26.2	28.9	34.0	36.6	39.2	46.9	49.5	52.1	54.8	6. 31. 39.18		18.15	...	...	...	6. 36. 22.49	- 1.55	
	40	26 Geminorum...H	H	2.5	5.1	7.7	12.7	15.4	...	26.0	28.4	30.9	33.8	6. 36. 18.07		30.79	...	...	...	6. 40. 35.13	- 1.20	
	41	Sirius.....H	H	14.9	17.6	20.1	25.4	28.1	30.6	38.2	40.9	43.3	46.1	6. 40. 35.13		3.19	...	...	...	6. 43. 57.51	- 2.65	
	42	14 Lynceis.....H	H	24.0	28.9	33.9	43.6	48.5	53.6	8.1	13.0	17.9	22.9	6. 43. 53.46		46.98	...	...	...	6. 46. 7.53	- 1.96	
	43	60 Aurigæ.....H	H	...	47.4	50.6	56.9	0.0	3.2	12.6	16.0	19.1	...	6. 46. 3.25		1.64	4.96	3.32	...	6. 46. 51.32	- 1.97	
	44	61 Aurigæ.....H	H	...	...	34.6	40.6	43.8	46.9	56.5	59.8	...	...	6. 46. 47.04		53.79	58.14	4.35	4.40	.....		
	45	Cephei 51.....H	H	54.1	5.0	10.0	18.9	26.0	31.4	40.1	47.6	52.1	58.2	7. 25. 9.76		7.72	...	...	...	7. 25. 12.06	- 10.81	
	46	ζ Geminorum...S	S	37.8	40.5	43.1	48.4	51.0	53.8	1.7	4.3	6.9	9.6	6. 57. 53.72		50.03	57.15	7.12	...	...		
	47	Lalande F. (2) 70	H	...	...	44.1	26.9	49.1	9.9	13.5	34.5	...	...	7. 25. 35.60		55.66	0.00	4.34	...	7. 28. 0.00	- 2.13	
	48	λ Ursæ Min. S.P..	H	55.9	1.6	8.5	30.1	37.2	43.0	54.7	1.8	7.5	19.3	7. 25. 35.60		47.88	...	...	...	7. 55. 52.22	- 72.47	
	49	Castor.....H	H	...	41.1	44.0	49.8	52.7	55.7	4.3	7.4	10.2	...	7. 27. 55.67		5.53	10.08	4.55	4.58	.....		
	50	Groombridge 1119	H	40.7	48.7	58.4	11.9	21.1	37.8	48.1	54.0	16.7	22.9	7. 55. 1.73		3.77	8.38	4.61	...	...		
	51	6 Cancri.....J	J	48.4	51.5	54.2	59.9	2.6	5.6	14.0	16.8	19.6	22.4	7. 57. 5.51		...	...	...	...	...		
	52	ρ Argûs.....J	J	46.9	49.9	52.6	58.2	0.9	3.5	11.7	14.1	17.0	19.8	8. 3. 3.47		...	...	...	...	...		

Correction for passage of Semidiameter, No. 27, — 0.45.

2. Observed over wires M, N, O and P.

3. Observed over wires U, V, W, X, Y and Z.

11. Observed over wires U, V, W, X and Y.

12. Observed over wire R with the transit-micrometer set to readings 36° 253, 36° 149, 35° 972, 35° 782, 34° 790, 34° 585, 34° 399, 34° 235.

16. Observed over wire R with the transit-micrometer set to readings 36° 801, 36° 605, 36° 400, 36° 199, 35° 436, 35° 232, 35° 068, 34° 890.

18. Observed over wire T with the transit-micrometer set to readings 35° 051, 35° 173, 35° 310, 35° 470, 35° 909, 36° 131, 36° 198, 36° 342.

19. Faint. Observed in partially illuminated field over wires P, Q, R and Z.

26. Observed over wire W with the transit-micrometer set to readings 36° 377, 36° 293, 36° 256, 36° 176, 35° 919, 35° 821, 35° 708, 35° 636, 35° 417, 35° 349.

27. Very faint; cloudy.

33. Observed over wire T with the transit-micrometer set to readings 36° 768, 36° 610, 36° 470, 36° 138, 35° 810, 34° 929, 34° 798, 34° 612, 34° 170, 33° 988.

45. Observed over wire T with the transit-micrometer set to readings 36° 530, 36° 751, 36° 845, 36° 993, 37° 150, 37° 262, 37° 429, 37° 580, 37° 685, 37° 782.

48. Observed over wire R with the transit-micrometer set to readings 36° 170, 36° 129, 36° 077, 35° 930, 35° 870, 35° 822, 35° 740, 35° 689, 35° 632, 35° 560.

50. Observed over wire T with the transit-micrometer set to readings 35° 000, 35° 052, 35° 133, 35° 230, 35° 281, 35° 447, 35° 502, 35° 541, 35° 702, 35° 757.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.					
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].											
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s										
Mar. 19	1	Jupiter 1 L.....	H	24.4	...	29.8	...	...	40.5	...	51.1	...	56.4	8. 5. 40.44	+ 0.51	} 42.01 [+ 4.29]	50.06 54.44	4.38	[4.34 0.00]	8. 5. 46.35	- 1.96						
	2	Jupiter 2 L.....	H	27.3	...	32.9	...	...	43.5	...	54.0	...	59.5	8. 5. 43.46	(- 2.15)												
	3	β Cancri	H	34.9	37.4	39.9	44.9	47.4	50.0	57.5	59.9	2.4	5.1	8. 10. 49.95	+ 4.29												
	4	W. B. (2) VIII. 713	H	24.6	27.1	29.8	35.1	37.7	40.4	48.1	50.9	53.4	56.1	8. 31. 40.33												8. 10. 54.40	- 2.25
	5	Piazzi VIII. 119.	H	...	55.6	58.4	3.5	6.0	8.8	16.8	19.3	22.0	...	8. 33. 8.82												8. 33. 13.23	- 2.25
	6	B. D. + 20° No. 2165	H	4.5	7.2	9.8	15.0	17.7	20.3	28.3	30.9	33.5	36.1	8. 34. 20.34												8. 34. 24.75	- 2.26
	7	Bradley 1224.....	H	6.0	8.5	11.2	16.5	19.1	21.8	29.8	32.2	34.9	37.6	8. 34. 21.77												8. 34. 26.18	- 2.26
	8	Groomb. 3548 S.P.	H	10.9	24.0	34.5	55.1	3.3	10.5	30.1	42.7	52.8	15.3	9. 19. 45.17												21. 19. 53.97	+ 2.78
	9	μ Leonis.....	H	...	35.5	38.2	43.8	46.5	49.4	57.6	0.4	3.1	...	9. 46. 49.33												9. 46. 53.69	- 2.70
	10	μ Leonis ... (E&E)	H	36.6	53.0	9.4	...	43.0	59.4	15.8	...	...	...	9. 46. 48.77												.....	
	11	Oeltz. Arg. (N.) 10371	H	2.7	7.0	11.5	20.0	24.4	...	41.5	46.0	50.2	54.5	9. 50. 28.66												9. 50. 32.78	- 4.08
	12	π Leonis.....	H	25.9	28.3	30.9	35.8	38.3	40.9	48.3	50.9	53.3	56.0	9. 54. 40.87												9. 54. 45.33	- 2.35
	13	Groomb. 3683 S.P.	H	39.3	45.6	51.2	57.0	14.8	21.0	26.6	38.6	44.0	50.1	10. 1. 14.80												22. 1. 19.82	+ 3.04
	14	Piazzi XXII. 24 S.P.	H	56.0	2.6	8.0	13.5	30.0	35.6	41.3	52.1	58.1	3.8	10. 6. 30.08												22. 6. 35.06	+ 2.83
	15	Groomb. 3724 S.P.	H	...	...	...	...	28.4	33.0	38.1	47.6	52.2	57.1	10. 9. 28.40												22. 9. 33.28	+ 2.21
	16	Groomb. 3796 S.P.	H	...	...	...	...	43.6	54.4	6.0	27.7	38.5	49.5	10. 23. 43.86												22. 23. 49.43	+ 7.01
	17	ρ Leonis.....	H	...	...	...	13.1	15.6	18.1	25.8	28.1	30.5	33.2	10. 27. 18.13												10. 27. 22.58	- 2.44
	18	β Virginis.....	H	...	2.1	4.7	9.6	12.0	14.6	22.0	24.5	26.9	...	11. 45. 14.57												11. 45. 19.06	- 2.44
	19	π Virginis.....	H	...	18.1	20.6	25.6	28.1	30.6	38.0	40.5	42.9	...	11. 55. 30.57												11. 55. 35.03	- 2.49
	20	π Virginis. (E&E)	H	22.7	37.5	52.4	...	22.5	37.3	52.0	...	...	...	11. 55. 30.00												.....	
	21	α Corvi.....	H	...	47.0	49.6	55.0	57.9	0.5	8.6	11.3	14.0	...	12. 3. 0.51												12. 3. 5.15	- 2.27
	22	Groomb. 23 S.P.	H	26.6	32.5	38.4	44.0	0.9	6.1	12.1	23.4	28.9	34.6	12. 9. 0.73												0. 9. 5.72	+ 2.83
	23	Groomb. 54 S.P.	H	25.5	33.1	40.5	48.0	10.6	18.2	26.0	41.1	49.1	56.4	12. 16. 10.82												0. 16. 16.03	+ 4.22
	24	Lalande 23336-7.	H	22.9	25.6	28.0	33.2	35.9	38.4	46.0	48.6	51.1	53.8	12. 23. 38.36												12. 23. 42.95	- 2.30
	25	W. B. XII. 385...	H	24.0	26.4	28.9	33.9	36.5	39.1	46.5	48.9	51.3	54.1	12. 25. 38.97												12. 25. 43.52	- 2.33
	26	f Virginis.....	H	8.6	11.2	13.8	18.6	21.2	23.6	31.1	33.6	36.0	38.6	12. 31. 23.64												12. 31. 28.17	- 2.36
	27	z8 Virginis.....	H	17.9	20.2	22.6	27.6	30.1	32.6	40.1	42.6	45.1	47.8	12. 36. 32.67												12. 36. 37.20	- 2.34
	28	B. D. + 14° No. 2536	H	2.9	5.6	8.1	13.2	15.8	18.3	26.0	28.5	30.9	33.6	12. 39. 18.30												12. 39. 22.74	- 2.54
	29	Groomb. 182 S.P.	H	54.9	59.8	...	...	24.0	...	...	...	48.6	53.5	12. 50. 24.14												0. 50. 29.03	+ 2.01
	30	ε Virginis.....	H	42.7	45.3	48.0	52.9	55.6	58.1	5.6	8.1	10.5	13.1	12. 56. 58.00												12. 57. 2.45	- 2.48
	31	θ Virginis.....	H	...	19.3	21.8	26.6	29.1	31.6	39.0	41.5	44.0	...	13. 4. 31.63												13. 4. 36.16	- 2.32
	32	θ Virginis. (E&E)	H	24.1	38.7	53.6	...	23.5	38.2	53.1	...	...	...	13. 4. 31.14												.....	
	33	Polaris S.P.	H	55.3	1.9	7.4	27.0	33.1	55.1	14.4	23.4	30.5	55.5	13. 19. 29.76												.....	
Mar. 22	34	⊙ 1 L.....	B	21.3	23.9	26.1	31.1	33.8	36.1	43.6	46.0	48.4	51.1	0. 7. 36.15	(- 3.25)	} 40.83 [+ 7.54]	49.33 53.83	4.50 5.57	[4.42 + 0.05]	0. 8. 45.25	+ 0.60						
	35	⊙ 2 L.....	B	30.1	32.5	35.0	40.0	42.6	45.0	52.2	54.8	57.3	59.9	0. 9. 44.95	+ 7.54												
	36	β Andromedæ ...	B	31.3	34.2	37.2	43.4	46.2	49.5	58.5	1.4	4.5	7.5	1. 3. 49.38												1. 3. 53.75	
	37	Polaris	B	37.3	50.8	3.7	11.9	23.8	41.1	12.9	21.0	31.5	42.4	1. 19. 58.30												.....	
	38	ν Orionis	AC	...	...	...	29.6	32.1	34.6	42.2	44.9	47.4	50.0	6. 1. 34.64												6. 1. 39.23	- 1.26
	39	ξ Orionis	AC	42.9	45.5	48.0	53.1	55.7	58.3	6.0	8.4	10.9	13.7	6. 5. 58.26												6. 6. 2.85	- 1.28
	40	δ Ursæ Min. S.P.	AC	30.2	34.7	38.2	42.2	46.4	51.1	55.6	0.5	5.0	10.2	6. 5. 31.31												.....	
	41	γ Orionis	AC	24.7	27.4	30.0	35.2	38.0	40.4	48.3	51.0	53.6	56.2	6. 8. 40.49												6. 8. 45.03	- 1.34
	42	5 Monocerotis ...	AC	28.4	30.9	33.3	38.3	40.9	43.4	50.8	53.4	55.7	58.4	6. 9. 43.36												6. 9. 48.12	- 1.10
	43	κ Orionis	AC	...	...	...	...	...	...	40.5	43.1	45.5	48.1	6. 10. 32.93												6. 10. 37.52	- 1.29
	44	μ Geminorum	B	20.9	23.7	26.2	31.6	34.2	37.0	45.0	47.7	50.2	53.1	6. 16. 36.97												6. 16. 41.49	- 1.44
	45	β Canis Majoris..	B	47.8	50.2	53.0	58.1	0.7	3.4	11.1	13.8	16.2	18.9	6. 18. 3.33												6. 18. 8.21	- 1.03
	46	ν Geminorum	AC	28.2	31.0	33.6	38.9	41.6	44.1	52.1	54.7	57.3	59.9	6. 22. 44.15												6. 22. 48.69	- 1.45
	47	δ 1 L.....	AC	...	...	7.1	12.8	15.7	18.5	27.2	30.1	32.9	36.0	6. 25. 18.61												6. 26. 36.57	
	48	Groombridge 1193	AC	28.0	32.5	37.0	46.1	50.6	55.4	8.9	13.5	17.9	22.5	6. 31. 55.26												6. 31. 59.25	- 2.27
	49	ξ Geminorum	AC	8.7	11.3	13.9	18.9	21.5	24.0	31.6	34.0	36.6	39.2	6. 39. 23.98												6. 39. 28.58	- 1.47
	50	Sirius.....	AC	14.7	17.5	20.0	24.9	27.7	30.2	38.0	40.5	43.1	45.9	6. 40. 30.26												6. 40. 35.11	- 1.14
	51	W. B. VI. 1291 ...	AC	55.8	58.4	0.9	6.0	8.6	11.1	18.8	21.5	23.9	26.5	6. 44. 11.16												6. 44. 16.00	- 1.19
	52	Cephei 51	AC	14.7	21.0	26.0	32.7	48.4	54.0	59.9	5.8	10.8	16.1	6. 52. 9.17												.....	
	53	40 Geminorum...	AC	43.4	46.0	48.8	54.3	57.1	59.9	8.0	10.9	13.6	16.2	6. 52. 59.83												6. 53. 4.31	- 1.73

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 10, 20, and 32, + 22^m 57^s + 22^m 60^s and + 22^m 61^s.
Correction for passage of Semidiameter, No. 47, + 73^m 50^s.

2. A correction of + 0^m 02^s, for defect of illumination, has been applied in forming the concluded transit.

8. Observed over wire Q with the transit-micrometer set to readings 36^m 128, 35^m 785, 35^m 530, 35^m 065, 34^m 861, 34^m 700, 34^m 221, 33^m 909, 33^m 650, 33^m 120.

22. Very faint.

33. Observed over wire T with the transit-micrometer set to readings 35^m 914, 35^m 849, 35^m 795, 35^m 640, 35^m 582, 35^m 363, 35^m 209, 35^m 097, 35^m 060, 34^m 858.

37. Observed over wire O with the transit-micrometer set to readings 34^m 060, 34^m 189, 34^m 290, 34^m 360, 34^m 444, 34^m 607, 34^m 893, 34^m 983, 35^m 055, 35^m 120.

40. Observed over wire V with the transit-micrometer set to readings 35^m 950, 35^m 840, 35^m 740, 35^m 655, 35^m 561, 35^m 459, 35^m 345, 35^m 221, 35^m 117, 34^m 972.

52. Observed over wire U with the transit-micrometer set to readings 35^m 092, 35^m 179, 35^m 276, 35^m 404, 35^m 721, 35^m 818, 35^m 955, 36^m 055, 36^m 166, 36^m 260.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0° Sidereal and [Lossing Rate].	Apparent of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Mar. 22	1	ζ Geminorum ...	J	377	403	430	481	508	536	15	41	67	96	6. 57. 53.55	+ 0.51	53.66	58.09	4.43	4.37	.....	
	2	γ Canis Majoris...	J	441	467	493	545	571	598	74	99	122	151	6. 58. 59.62	(- 3.25)	0.05	4.38	4.33	[+ 0.05]	.....	
	3	Groomb.2761 S.P.	AC	...	...	...	...	...	...	41.9	51.7	56.5	15	7. 0. 31.88	[+ 7.54]	32.90	...	...	4.41	19. 0. 37.32	+ 0.47
	4	47 Geminorum...	AC	368	396	422	479	507	534	19	44	71	100	7. 4. 53.41		53.45	...	...	...	7. 4. 57.87	- 1.83
	5	51 Geminorum...	AC	55	81	108	159	185	211	289	314	339	365	7. 7. 21.07		21.22	25.62	4.40	...	7. 7. 25.64	- 1.68
	6	λ Geminorum ...	B	486	512	539	591	15	41	120	145	171	198	7. 12. 4.19		4.34	...	...	4.42	7. 12. 8.77	- 1.71
	7	W. B. (2) VII. 316-7.	B	...	227	252	...	...	...	...	...	483	511	7. 12. 35.55		35.70	...	...	...	7. 12. 40.13	- 1.71
	8	W. B. (2) VII. 449-50	B	...	...	...	...	...	...	34.1	368	394	422	7. 17. 25.54		25.58	...	...	...	7. 17. 30.02	- 1.93
	9	ι Geminorum ...	B	569	597	23	80	108	135	220	246	274	304	7. 19. 13.57		13.61	...	...	...	7. 19. 18.05	- 1.94
	10	β Canis Minoris...	B	...	...	...	...	...	...	...	352	377	401	7. 21. 27.69		27.90	32.27	4.37	...	7. 21. 32.34	- 1.65
	11	γ Herculis.....	AC	...	...	...	...	249	275	301	328	485	41	16. 17. 17.05		17.17	21.61	4.44	4.41	16. 17. 21.61	- 1.75
	12	Antares	AC	...	...	...	531	560	588	71	98	124	152	16. 22. 58.74		59.27	3.68	4.41	...	16. 23. 3.71	- 1.94
	13	λ Ophiuchi	AC	221	246	271	320	346	370	443	469	494	520	16. 25. 37.01		37.28	41.74	4.46	...	16. 25. 41.72	- 1.73
Mar. 23	14	⊙ 1 L.	H	...	...	...	121	146	221	245	269	295	0. 11. 14.60	+ 0.18	19.21	...	...	4.25	[+ 0.05]	0. 12. 23.46	
	15	⊙ 2 L.	H	85	109	136	185	210	235	309	334	359	385	0. 13. 23.48	(- 4.03)						
	16	Polaris	H	116	220	340	280	361	455	28	...	...	...	1. 19. 59.23	[+ 6.65]	37.53	43.15	5.62	...	.....	
	17	ε Tauri	AC	130	156	181	234	260	286	365	391	417	442	4. 22. 28.63		28.65	33.19	4.54	4.53	4. 29. 57.75	- 0.67
	18	Aldebaran	H	380	406	...	...	...	...	...	...	62	89	4. 29. 53.44		53.49	57.76	4.27	4.25	.....	
	19	δ Ursæ Min. S.P...	H	12	145	213	405	188	257	415	40	133	237	6. 5. 31.98		40.16	43.83	3.67	...	.....	
	20	μ Geminorum ...	H	211	239	265	320	345	372	452	480	505	533	6. 16. 37.23		37.21	41.50	4.29	...	6. 16. 41.47	- 1.42
	21	Sirius	H	149	175	201	252	280	305	381	407	433	460	6. 40. 30.44		30.77	...	...	...	6. 40. 35.03	- 1.12
	22	Oeltz. Arg. (N.) 7369	H	273	308	344	417	453	489	598	31	65	104	6. 48. 48.84		48.53	...	...	...	6. 48. 52.79	- 2.09
	23	Cephei 51	H	408	476	540	109	170	206	351	595	76	...	6. 52. 9.66		0.09	3.50	3.41	...	.....	
	24	ζ Geminorum ...	H	...	...	...	485	512	...	19	42	69	97	6. 57. 53.81		53.81	58.07	4.26	...	6. 57. 58.07	- 1.66
	25	γ Canis Majoris...	H	443	469	495	546	574	599	76	101	126	153	6. 58. 59.83		0.15	4.37	4.22	...	6. 59. 4.41	- 1.24
	26	47 Geminorum...	H	371	399	425	481	510	538	21	49	78	105	7. 4. 53.78		53.71	...	...	...	7. 4. 57.97	- 1.81
	27	Groomb.2822 S.P.	H	480	522	566	07	135	177	220	301	346	389	7. 17. 13.41		14.25	...	...	...	19. 17. 18.52	+ 0.32
	28	λ Ursæ Min. S.P.	H	464	540	599	211	294	471	536	595	290	410	7. 25. 28.64		55.28	1.10	5.82	...	.....	
	29	⊙ 1 L.	H	282	310	340	396	424	452	536	564	594	20	7. 26. 45.19		45.15	...	...	...	7. 28. 2.71	
	30	Procyon.....	B	337	361	385	435	460	485	560	586	09	36	7. 33. 48.55		48.69	53.20	4.51	4.48	.....	
	31	Procyon ... (E&E)	B	389	538	87	235	386	533	84	...	...	...	7. 33. 48.50		48.64	53.20	4.56	...	.....	
	32	Pollux	B	379	407	436	490	520	548	32	59	88	116	7. 38. 54.76		54.69	59.18	4.49	...	.....	
	33	Pollux..... (E&E)	B	391	560	129	298	467	36	204	...	...	...	7. 38. 54.69		54.62	59.18	4.56	...	.....	
	34	Groombridge 1119	H	258	360	515	251	339	430	49	154	229	464	7. 55. 10.33		44.64	...	...	4.25	7. 54. 48.91	- 68.88
	35	W.B. (2) VII. 1457	H	299	324	351	404	432	460	541	568	596	22	7. 54. 45.98		45.95	...	...	...	7. 54. 50.22	- 2.07
	36	μ ² Cancri	H	205	231	258	310	339	364	445	471	498	524	8. 1. 36.46		36.46	...	...	...	8. 1. 40.73	- 2.08
	37	Jupiter 1 L.	H	144	...	198	...	...	...	...	409	...	462	8. 5. 30.33		31.84	...	...	...	8. 5. 36.11	
	38	Jupiter 2 L.	H	174	...	227	...	...	333	...	439	...	493	8. 5. 33.34							
	39	δ ¹ Cancri	H	...	94	119	171	198	223	301	328	355	...	8. 17. 22.38		22.40	26.62	4.22	...	8. 17. 26.67	- 2.10
	40	δ ² Cancri... (E&E)	H	100	256	415	...	127	282	439	...	...	...	8. 17. 21.90		21.92	26.62	4.70	...	.....	
	41	Groomb.3232 S.P.	H	...	...	...	121	245	286	327	...	...	...	8. 30. 24.47		25.26	...	...	...	20. 30. 29.53	+ 0.94
	42	Groomb.3235 S.P.	H	...	...	...	440	479	520	00	41	81	...	8. 30. 43.83		44.62	...	...	...	20. 30. 48.89	+ 0.95
	43	38 Cancri	H	262	289	317	367	395	421	500	525	551	580	8. 33. 42.08		42.08	...	...	...	8. 33. 46.35	- 2.21
	44	42 Cancri	H	271	299	323	378	403	430	509	534	560	590	8. 34. 42.98		42.98	...	...	...	8. 34. 47.25	- 2.22
	45	Groomb.3548 S.P.	H	253	340	430	46	150	241	430	496	568	154	9. 19. 42.33		50.50	...	...	...	21. 19. 54.77	+ 26.97
	46	ε Leonis.....	J	...	414	441	495	521	549	32	60	85	...	9. 39. 54.98		54.94	59.47	4.53	4.55	.....	
	47	μ Leonis.....	H	...	355	382	439	466	496	577	06	31	...	9. 46. 49.42		49.36	53.60	4.24	4.25	9. 46. 53.63	- 2.66
	48	μ Leonis... (E&E)	H	...	508	75	...	407	571	...	...	...	...	9. 46. 48.98		48.92	53.60	4.68	...	.....	
	49	Groomb.3617 S.P.	H	...	...	...	...	...	494	536	19	60	100	9. 51. 45.46		46.26	...	...	...	21. 51. 50.53	+ 1.48
	50	π Leonis.....	J	256	281	306	356	381	...	482	507	531	556	9. 54. 40.63		40.76	45.37	4.61	4.55	.....	
	51	Groomb.3651 S.P.	H	162	203	246	289	412	452	496	580	21	62	9. 57. 41.21		42.03	...	...	4.25	21. 57. 46.30	+ 1.57
	52	Regulus	H	...	353	380	430	456	481	558	582	06	...	10. 2. 48.10		48.17	52.41	4.24	...	10. 2. 52.44	- 2.41
	53	Regulus.... (E&E)	H	370	519	72	...	377	528	81	...	...	...	10. 2. 47.40		47.47	52.41	4.94	...	.....	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 31, 33, 40, 48, and 53, + 24^m.90 : + 24^m.90 : + 24^m.92 : + 24^m.95 : and + 24^m.95.
Correction for passage of Semidiameter, No. 29, + 73^m.29.

11. Observed over wires U, V, W, X, Y and Z.

16. Cloudy. Observed over wire T with the transit-micrometer set to readings 33^m.622, 33^m.690, 33^m.790, 35^m.339, 35^m.410, 35^m.463, 35^m.622.

19. Observed over wire T with the transit-micrometer set to readings 36^m.329, 36^m.002, 35^m.862, 35^m.395, 34^m.471, 34^m.320, 33^m.928, 33^m.280, 33^m.185, 32^m.958.

23. Observed over wire T with the transit-micrometer set to readings 35^m.049, 35^m.165, 35^m.290, 35^m.632, 35^m.740, 38^m.173, 38^m.449, 38^m.930, 39^m.089.

28. Observed over wire T with the transit-micrometer set to readings 37^m.630, 37^m.575, 37^m.542, 37^m.420, 37^m.338, 37^m.197, 37^m.157, 37^m.096, 36^m.911, 36^m.830.

34. Observed over wire R with the transit-micrometer set to readings 34^m.601, 34^m.680, 34^m.800, 35^m.060, 35^m.143, 35^m.200, 35^m.350, 35^m.439, 35^m.494, 35^m.658.

38. A correction of + 0^m.02, for defect of illumination, has been applied in forming the concluded transit.

45. Observed over wire T with the transit-micrometer set to readings 34^m.561, 34^m.353, 34^m.152, 33^m.630, 33^m.370, 33^m.169, 32^m.711, 32^m.549, 32^m.392, 31^m.933.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896°.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
1898	Mar. 23	1 Groomb. 3739 S.P.R.	H	25.0	31.0	36.7	42.6	...	...	...	...	...	10. 14. 0.73	+ 0.18	1.35			4.25	22. 14. 5.62	+ 3.06		
	2 Groomb. 3739 S.P. ...	H	...	...	...	...	...	...	...	24.5	30.0	36.3	10. 14. 0.34	(- 4.03)	1.56			[+ 0.05]	22. 14. 5.83	+ 3.06		
	3 Bradley 3147 S.P.	H	34.6	43.6	50.0	16.2	46.9	54.0	16.6	24.0	31.9	48.3	11. 27. 6.10	[+ 6.65]	14.58				23. 27. 18.85	+ 31.47		
	4 Groomb. 4124 S.P.	H	...	...	32.1	41.5	10.4	20.5	30.0	49.6	...	...	11. 35. 10.64		12.61				23. 35. 16.88	+ 5.99		
	5 Carrington 3660 S.P.	H	1.0	9.1	16.7	35.1	58.5	6.3	23.2	59.5	...	...	11. 41. 48.49		0.82				23. 42. 5.09	+ 46.26		
	6 β Virginis	H	59.8	2.1	4.7	9.6	12.0	14.5	22.0	24.4	26.9	29.5	11. 45. 14.56		14.72	19.10	4.38		11. 45. 18.99	- 2.46		
	7 Carrington 3686 S.P.	H	...	...	...	...	44.5	2.2	20.1	54.5	11.5	29.5	11. 52. 44.77		48.26				23. 52. 52.53	+ 11.70		
	8 3 Comæ	R	56.0	58.8	1.2	6.2	9.1	11.5	19.5	21.9	24.4	27.2	12. 5. 11.59		12.10				12. 5. 16.38	- 2.67		
	9 6 Comæ	H	26.1	28.6	31.2	36.2	39.0	41.6	49.2	51.9	54.2	56.9	12. 10. 41.50		41.55				12. 10. 45.83	- 2.63		
	10 ζ Cassiopeiae S.P.	H	39.0	43.5	47.5	51.5	4.1	8.1	12.2	20.5	24.6	28.9	12. 31. 3.97		4.79				0. 31. 9.07	+ 1.58		
1898	Mar. 24	11 ⊙ 1 L.....	DE	37.7	40.2	42.6	47.5	50.1	52.5	0.1	2.4	4.9	7.6	0. 14. 52.57	[+ 6.66]				4.42	0. 16. 1.49		
	12 ⊙ 2 L.....	DE	46.3	48.8	51.3	56.2	58.6	1.5	8.6	11.1	13.6	16.1	0. 17. 1.22									
	13 β Andromedæ ...	DE	31.3	34.1	37.4	43.5	46.6	49.5	58.7	1.5	4.6	7.8	1. 3. 49.51		49.35	53.84	4.49		1. 3. 53.77	+ 0.59		
	14 Polaris	DE	19.2	28.5	50.1	56.4	11.1	19.8	31.2	41.1	56.5	2.5	1. 19. 58.62		36.91	42.84	5.93		1. 19. 41.33	+ 71.01		
	15 β Ursæ Min. S.P.	DE	...	12.8	22.0	31.4	59.0	8.6	18.1	36.6	45.8	...	2. 50. 59.23		1.13				14. 51. 5.56	- 5.15		
	16 Aldebaran	DE	37.9	40.4	43.0	48.1	50.8	53.4	1.1	3.6	6.1	8.8	4. 29. 53.33		53.37	57.74	4.37		4. 29. 57.80	- 0.65		
	17 Rigel	W	13.4	16.0	18.3	23.3	25.9	28.3	35.9	38.3	40.8	43.4	5. 9. 28.37		28.63	33.09	4.46	4.50	.....			
	18 Rigel .....(E&E)	W	17.9	32.8	47.8	2.9	17.9	32.8	47.6	...	...	...	5. 9. 28.15		28.41	33.09	4.68		.....			
	19 β Tauri	W	22.7	25.6	28.2	34.0	36.8	39.5	48.0	50.8	53.6	56.5	5. 19. 39.58		39.50	44.05	4.55		.....			
	20 κ Orionis	DE	30.5	33.0	35.6	40.5	43.0	45.5	53.1	55.7	58.2	0.7	5. 42. 45.59		45.86	50.30	4.44	4.42	5. 42. 50.29	- 0.90		
	21 α Orionis	DE	14.0	16.5	18.9	24.0	26.4	29.0	36.4	38.9	41.4	44.0	5. 49. 28.96		29.08	33.53	4.45		5. 49. 33.51	- 1.08		
	22 β Aurigæ	DE	30.3	33.9	37.3	44.2	47.9	51.3	1.9	5.3	8.7	12.2	5. 51. 51.32		51.03				5. 51. 55.46	- 1.46		
	23 μ Geminorum ...	DE	20.9	23.6	26.2	31.7	34.3	37.1	45.1	47.9	50.4	53.1	6. 16. 37.04		37.02	41.48	4.46		6. 16. 41.45	- 1.40		
	24 8 Monocerotis ...	DE	57.1	59.7	2.1	6.9	9.5	12.0	19.5	22.0	24.4	26.9	6. 18. 12.02		12.16				6. 18. 16.59	- 1.22		
	25 10 Monocerotis...	DE	30.9	33.6	36.0	40.9	43.5	46.0	53.3	56.0	58.4	0.8	6. 22. 45.95		46.18				6. 22. 50.61	- 1.15		
	26 13 Monocerotis...	DE	58.6	1.1	3.6	8.5	11.0	13.5	21.1	23.5	26.0	28.5	6. 27. 13.55		13.67				6. 27. 18.10	- 1.30		
	27 γ Geminorum	DE	23.7	26.1	28.8	34.0	36.6	39.1	47.0	49.5	52.0	54.6	6. 31. 39.15		39.19	43.62	4.43		6. 31. 43.62	- 1.42		
	28 γ Geminorum....(E&E)	DE	27.4	42.6	...	...	...	44.5	0.0	...	...	...	6. 31. 39.02		39.06	43.62	4.56		.....			
	29 ε Geminorum	DE	12.8	15.4	18.1	23.6	26.5	29.2	37.5	40.1	42.8	45.7	6. 37. 29.18		29.14				6. 37. 33.57	- 1.58		
	30 Sirius	DE	14.9	17.4	20.0	25.1	27.8	30.4	38.1	40.6	43.1	45.8	6. 40. 30.33		30.66				6. 40. 35.09	- 1.10		
	31 Oeltz. Arg. (N.) 7369	DE	27.1	30.6	34.0	41.4	45.0	48.6	59.5	2.9	6.3	10.1	6. 48. 48.57		48.26				6. 48. 52.69	- 2.07		
	32 Cephei 51	DE	32.8	39.7	47.4	54.7	0.5	7.2	13.9	18.9	24.9	30.9	6. 52. 8.59		59.01				6. 52. 3.44	- 17.79		
	33 τ Geminorum ...	DE	11.5	14.2	17.1	22.9	26.0	28.6	37.4	40.2	43.0	46.0	7. 4. 28.70		28.59				7. 4. 33.02	- 1.85		
	34 22 Monocerotis...	DE	...	...	...	...	...	30.0	37.5	39.9	42.2	44.9	7. 6. 30.01		30.20				7. 6. 34.63	- 1.43		
	35 53 Geminorum...	DE	...	...	...	19.2	22.1	25.0	33.4	36.2	38.9	41.9	7. 9. 24.97		24.90				7. 9. 29.33	- 1.84		
	36 λ Geminorum ...	DE	48.6	...	...	59.0	1.5	4.1	11.9	14.4	17.0	19.8	7. 12. 4.15		4.19				7. 12. 8.62	- 1.68		
	37 β Canis Minoris..	DE	...	...	...	...	...	...	35.2	37.8	40.1	42.8	7. 21. 27.74		27.85	32.24	4.39		7. 21. 32.29	- 1.62		
	38 λ Ursæ Min. S.P.	DE	26.5	34.0	41.2	46.9	54.6	0.4	6.2	11.6	16.0	21.6	7. 25. 29.88		56.55				19. 26. 0.99	+ 57.67		
	39 68 Geminorum R.	DE	21.9	24.2	26.9	32.0	34.6	37.1	...	...	...	...	7. 27. 37.18		37.69				7. 27. 42.13	- 1.76		
	40 κ Geminorum ...	DE	51.4	54.0	56.6	2.1	4.9	7.8	...	...	...	...	7. 38. 7.64		7.60				7. 38. 12.04	- 1.97		
	41 κ Hydræ	DE	1.1	3.6	6.3	11.2	13.9	16.3	24.1	26.5	29.1	31.8	9. 35. 16.40		16.70				9. 35. 21.14	- 1.96		
	42 υ Hydræ	DE	10.5	13.0	15.6	20.6	23.1	25.7	33.5	36.0	38.5	41.1	9. 46. 35.77		26.08				9. 46. 30.52	- 2.00		
	43 8 Sextantis	DE	...	...	...	...	...	...	26.3	28.9	31.3	33.9	9. 47. 18.89		19.14				9. 47. 23.58	- 2.07		
	44 ν Leonis	DE	20.4	22.9	25.4	30.5	33.1	35.6	43.2	45.8	48.2	50.9	9. 52. 35.61		35.68				9. 52. 40.12	- 2.39		
	45 π Leonis	DE	25.8	28.2	30.8	35.8	38.3	40.8	48.3	50.8	53.4	55.9	9. 54. 40.82		40.93	45.36	4.43		9. 54. 45.37	- 2.32		
	46 π Leonis....(E&E)	DE	30.4	45.4	...	...	...	45.1	0.1	...	...	...	9. 54. 40.71		40.82	45.36	4.54		.....			
	47 16 Cephei S.P....	DE	...	...	...	...	...	...	51.2	8.3	16.6	24.8	9. 57. 34.88		36.58				21. 57. 41.02	+ 4.64		
	48 19 Cephei S.P....	DE	...	...	...	...	48.2	53.6	59.2	9.6	14.6	20.1	10. 1. 48.52		49.58				22. 1. 54.02	+ 2.39		
	49 Groomb. 3701 S.P.	DE	...	...	...	...	...	45.5	53.9	9.6	17.1	25.2	10. 4. 37.85		39.46				22. 4. 43.90	+ 4.38		
	50 ζ Leonis	DE	36.4	39.1	41.9	47.1	50.0	52.6	0.6	3.4	6.0	8.9	10. 10. 52.61		52.58				10. 10. 57.02	- 2.68		
	51 μ Ursæ Majoris...	DE	47.2	50.6	53.9	0.4	3.8	7.1	17.2	20.4	23.7	27.1	10. 16. 7.16		6.92				10. 16. 11.36	- 3.30		
	52 44 Leonis	DE	29.2	31.8	34.1	39.1	41.8	44.2	51.8	54.1	56.6	59.2	10. 19. 44.20		44.30				10. 19. 48.74	- 2.41		
	53 Piazz X. 67	DE	...	...	...	...	...	...	11.9	14.2	16.8	19.4	10. 20. 4.32		4.42				10. 20. 8.86	- 2.41		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 18, 28, and 46, + 25^m 34^s : + 25^m 38^s : and + 25^m 45^s.

3. Observed over wire T with the transit-micrometer set to readings 36^m 329, 36^m 115, 35^m 960, 35^m 360, 34^m 664, 34^m 489, 33^m 981, 33^m 830, 33^m 620, 33^m 243.
5. Observed over wire T with the transit-micrometer set to readings 36^m 349, 36^m 239, 36^m 100, 35^m 810, 35^m 447, 35^m 292, 35^m 051, 34^m 489.
13. Very faint; unsteady.
14. Observed over wire P with the transit-micrometer set to readings 35^m 525, 35^m 592, 35^m 792, 35^m 870, 35^m 980, 36^m 039, 36^m 155, 36^m 231, 36^m 363, 36^m 418.
15, 22, 37, 40. Cloudy.
32. Observed over wire T with the transit-micrometer set to readings 34^m 898, 35^m 029, 35^m 187, 35^m 332, 35^m 427, 35^m 588, 35^m 698, 35^m 800, 35^m 916, 36^m 040.
39. Observed over wire R with the transit-micrometer set to readings 35^m 035, 34^m 971, 34^m 937, 34^m 881, 34^m 833, 34^m 794, 34^m 758, 34^m 712, 34^m 670, 34^m 620.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896-0.																				
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).					h	m	s		h	m	s																	
																												s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s
1898	Mar. 24	1	Piazzi X. 83	DE	57.6	0.1	2.6	7.9	10.5	13.0	20.7	23.2	25.9	28.3	10. 23. 12.99	+ 0.18		13.04			4.42	10. 23. 17.48	- 2.51																					
		2	28 Cephei S.P.	DE	...	...	...	...	...	...	5.4	29.4	41.6	54.0	10. 25. 41.00	(- 4.03)		43.45			[+ 0.05]	22. 25. 47.89	+ 7.71																					
		3	ρ Cephei S.P.	DE	...	...	54.0	6.4	42.8	55.0	7.4	31.8	...	...	10. 28. 42.85	[+ 6.66]		45.30				22. 28. 49.74	+ 7.76																					
		4	31 Cephei S.P.	DE	...	...	...	35.0	0.6	9.4	17.9	...	...	...	10. 33. 0.70			2.44				22. 33. 6.88	+ 5.01																					
		5	34 Sextantis	DE	58.2	0.6	3.1	8.0	10.5	13.0	20.4	22.9	25.4	28.0	10. 37. 13.02			13.16	17.62	4.46		10. 37. 17.60	- 2.37																					
		6	42 Leonis Minoris	DE	46.1	49.0	51.9	57.8	0.6	3.5	...	...	...	...	10. 40. 3.51			3.40				10. 40. 7.84	- 2.95																					
		7	W. B. (2) X. 775...	DE	...	...	...	...	...	5.5	14.1	17.1	20.0	22.9	10. 40. 5.52			5.41				10. 40. 9.85	- 2.95																					
		8	Bradley 1508...R.	DE	29.8	42.5	54.4	18.5	31.3	43.6	...	...	...	...	10. 51. 43.40			43.67				10. 51. 48.11	- 10.33																					
		9	ρ ² Leonis	DE	0.0	2.5	5.0	9.9	12.4	14.9	22.2	24.8	27.2	29.9	10. 58. 14.89			15.07				10. 58. 19.51	- 2.36																					
		10	χ Leonis	DE	22.0	24.5	27.0	32.0	34.5	37.0	44.5	47.0	49.5	52.1	10. 59. 37.02			37.14	41.56	4.42		10. 59. 41.58	- 2.45																					
		11	67 Leonis	DE	56.2	59.1	1.8	7.3	10.0	12.7	20.9	23.7	26.3	29.2	11. 3. 12.73			12.69				11. 3. 17.13	- 2.82																					
		12	Piazzi X. 257	DE	...	...	7.7	12.0	20.6	24.7	29.2	42.0	46.2	50.6	...			28.67				11. 5. 33.11	- 4.20																					
		13	δ Leonis	DE	17.1	19.8	22.2	27.6	30.1	32.9	40.9	43.5	46.1	48.9	11. 8. 32.92			32.92	37.39	4.47		11. 8. 37.36	- 2.72																					
		14	Bradley 3085 S.P.	DE	50.9	50.9	8.5	17.1	...	...	...	...	...	...	11. 10. 43.61			45.41				23. 10. 49.85	+ 5.33																					
		15	ν Ursæ Majoris...	DE	32.5	35.6	38.5	44.3	47.5	50.3	59.5	2.2	5.2	8.2	11. 12. 50.39			50.25				11. 12. 54.69	- 3.07																					
		16	σ Leonis	DE	29.4	31.9	34.3	39.2	41.9	44.2	51.8	54.2	56.5	59.5	11. 15. 44.30			44.43				11. 15. 48.87	- 2.47																					
		17	ι Leonis	DE	13.1	15.6	18.0	23.0	25.7	28.1	35.8	38.2	40.8	43.4	11. 18. 28.18			28.27				11. 18. 32.71	- 2.55																					
		18	Groombridge 1778	DE	...	...	...	...	39.3	56.3	47.6	4.0	20.9	38.5	11. 22. 56.44			53.38				11. 22. 57.82	- 13.97																					
		19	Groombridge 1782	DE	...	...	...	...	...	...	34.5	51.1	7.8	25.9	11. 24. 42.85			39.77				11. 24. 44.21	- 14.04																					
		20	Bradley 3147 S.P.	DE	25.6	35.8	41.9	48.5	55.4	3.1	9.8	17.7	23.2	28.9	11. 27. 5.99			14.48				23. 27. 18.92	+ 31.42																					
		21	γ Ursæ Majoris...	DE	...	...	...	13.2	17.5	21.9	34.4	38.8	42.6	47.2	11. 48. 21.75			21.26				11. 48. 25.70	- 4.15																					
		22	π Virginis	DE	15.5	18.0	20.5	25.6	28.0	30.5	38.0	40.4	42.9	45.6	11. 55. 30.51			30.63	35.10	4.47		11. 55. 35.07	- 2.52																					
		23	ο Virginis	DE	37.6	40.1	42.6	47.8	50.1	52.5	0.1	2.5	5.1	7.8	11. 59. 52.63			52.73	57.20	4.47		11. 59. 57.17	- 2.54																					
		24	3 Comæ	DE	55.8	58.4	0.9	6.0	8.7	11.3	19.1	21.7	24.2	26.8	12. 5. 11.30			11.81				12. 5. 16.26	- 2.67																					
		25	6 Comæ	DE	26.0	28.5	31.1	36.1	38.8	41.4	49.1	51.8	54.1	56.9	12. 10. 41.39			41.44				12. 10. 45.89	- 2.64																					
		26	W. B. XII. 632...	DE	24.2	26.9	29.3	34.4	36.9	39.6	47.1	49.7	52.1	54.9	12. 39. 39.52			39.59				12. 39. 44.04	- 2.60																					
		27	30 Comæ	DE	55.0	57.8	0.6	6.1	9.1	11.9	20.2	23.0	25.9	28.6	12. 44. 11.83			11.76				12. 44. 16.21	- 2.85																					
		28	δ Virginis	DE	4.9	7.3	9.9	14.7	17.3	19.7	27.1	29.6	32.0	34.5	12. 50. 19.71			19.86	24.30	4.44		12. 50. 24.31	- 2.46																					
		29	δ Virginis (E&E)	DE	9.4	24.4	...	...	...	23.5	38.5	...	...	...	12. 50. 19.46			19.61	24.30	4.69		.....																						
		30	36 Comæ	DE	29.4	32.0	34.6	39.8	42.2	44.9	52.8	55.4	58.0	0.6	12. 53. 44.98			45.01				12. 53. 49.46	- 2.63																					
		31	Groombridge 1954	DE	38.7	41.9	45.2	51.6	54.9	58.1	7.9	10.9	14.1	17.6	13. 0. 58.10			57.88				13. 1. 2.33	- 3.16																					
		32	σ Virginis	DE	4.0	6.6	9.1	14.0	16.4	19.0	26.5	28.9	31.4	34.0	13. 12. 19.00			19.14				13. 12. 23.59	- 2.46																					
		33	Spica	DE	25.4	27.8	30.2	35.4	38.0	40.4	48.0	50.5	53.0	55.6	13. 19. 40.44			40.72	45.12	4.40		13. 19. 45.17	- 2.35																					
		34	Polaris S.P.	DE	5.7	15.6	26.0	38.0	49.7	1.3	13.9	24.6	36.3	...	13. 19. 15.88			37.95	42.68	4.73		1. 19. 42.40	+ 71.17																					
		35	ζ Cygni	B	8.8	11.6	14.4	20.1	23.1	26.0	34.4	37.3	40.1	43.1	21. 8. 25.90			25.81	30.37	4.56	4.51	21. 8. 30.36	+ 0.20																					
		36	τ Cygni	B	14.8	18.0	21.0	27.2	30.3	33.6	42.9	46.0	49.0	52.2	21. 10. 33.51			33.33				21. 10. 37.88	+ 0.46																					
		37	α Cephei	B	28.1	...	38.6	49.2	54.8	59.9	15.8	21.0	...	31.7	21. 15. 59.90			59.19				21. 16. 3.74	+ 2.10																					
		38	Venus 2 L.	B	48.7	51.3	54.1	...	...	...	...	...	...	...	22. 39. 3.96	- 0.19		4.21				22. 39. 8.34																						
		39	Mercury 2 L.	B	4.9	7.4	9.9	14.9	17.4	20.0	27.4	30.0	32.3	34.9	23. 6. 19.92			20.16				23. 6. 24.53																						
		40	α Andromedæ ...	B	...	...	...	...	...	55.8	4.1	6.9	9.7	12.7	0. 2. 55.72			55.62	0.09	4.47	4.56	0. 3. 0.18	+ 0.53																					
Mar. 25		41	⊙ 1 L.	B	...	...	...	...	...	...	...	...	0.1	15.1	0. 18. 30.49							0. 19. 39.58																						
		42	⊙ 2 L.	B	...	...	...	...	...	...	...	...	...	...	0. 20. 39.26																													
		43	α Cassiopeiae	B	4.0	8.2	12.8	21.6	26.1	30.6	43.9	48.1	52.5	57.0	0. 34. 30.50			29.94				0. 34. 34.50	+ 1.76																					
		44	γ Cassiopeiae	B	15.3	...	...	...	38.3	42.8	56.6	1.2	5.8	10.5	0. 42. 42.90			42.30				0. 42. 46.86	+ 1.81																					
		45	γ Cassiopeiae	B	50.0	54.9	0.0	9.9	14.9	20.0	34.8	39.8	44.4	49.9	0. 50. 19.88			19.18				0. 50. 23.74	+ 2.07																					
		46	β Andromedæ ...	B	31.4	34.2	37.3	43.3	46.4	49.5	58.5	1.5	4.5	7.6	1. 3. 49.43			49.24	53.84	4.60		1. 3. 53.80	+ 0.59																					
		47	Polaris	B	11.7	23.1	33.6	45.4	28.3	40.2	53.3	2.0	...	...	1. 20. 1.16	+ 0.18		39.45	42.52	3.07		1. 19. 44.01	+ 71.33																					
		48	η Persei	B	35.5	...	...	...	57.4	1.9	...	...	...	...	2. 43. 1.78			1.27				2. 43. 5.84	+ 0.76																					
		49	τ Persei	B	...	...	...	...	44.3	48.1	0.4	4.3	8.4	12.7	2. 46. 48.25			47.81				2. 46. 52.38	+ 0.58																					
		50	β Ursæ Min. S.P..	B	...	12.5	21.9	30.9	58.9	8.1	17.8	36.1	45.4	...	2. 50. 58.89			0.79				14. 51. 5.36	- 5.20																					
		51	β Persei	B	...	...	6.5	13.1	16.2	19.6	29.4	32.5	...	...	3. 1. 19.56			19.34				3. 1. 23.91	+ 0.10																					
		52	Aldebaran	B	37.7	40.2	42.8	48.0	50.7	53.3	0.9	...	...	8.5	4. 29. 53.16			53.20	57.73	4.53		4. 29. 57.77	- 0.64																					
		53	ι Aurigæ	B	52.0	54.9	57.8	3.6	6.6	9.6	18.5	21.3	24.2	27.4	4. 50. 9.60			9.47	13.98	4.51		4. 50. 14.04	- 0.81																					

For Nos. 38 to 46. Reading of Transit-Micrometer 35^r.610.Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 29, + 25^r.50.Corrections for passage of Semidiameter, Nos. 38 and 39, — 0^r.43 and — 0^r.19.20. Observed over wire X with the transit-micrometer set to readings 36^r.379, 36^r.165, 35^r.990, 35^r.864, 35^r.692, 35^r.520, 35^r.370, 35^r.202, 35^r.055, 34^r.930.34. Observed over wire X with the transit-micrometer set to readings 36^r.000, 35^r.900, 35^r.800, 35^r.700, 35^r.600, 35^r.500, 35^r.400, 35^r.300, 35^r.200.

35, 36, 37, 40, 43, 44, 48, 49, 50. Cloudy.

38, 52. Very faint; cloudy.

47. Observed over wire S with the transit-micrometer set to readings 35^r.100, 35^r.200, 35^r.300, 35^r.400, 35^r.800, 35^r.900, 36^r.000, 36^r.100.

41. Observed over wires Y and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1998GCA-MM

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1990.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].								
															h	m							s
s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s				
Mar. 25	1	ζ Aurigæ	B	49.3	52.5	55.8	2.4	5.8	9.1	18.9	22.0	25.4	28.7	4. 55. 9.00	+ 0.18	8.78			4.56	4. 55. 13.35	- 0.85		
	2	η Aurigæ	B	50.1	53.5	56.6	3.2	6.6	10.0	19.7	22.9	26.1	29.7	4. 59. 9.85	(- 4.03)	9.62		[+ 0.05]	4. 59. 14.19	- 0.89			
	3	β Eridani	B	25.2	27.6	30.1	35.1	37.5	40.1	47.5	50.0	52.4	55.1	5. 2. 40.07	[+ 6.66]	40.30			5. 2. 44.87	- 0.72			
	4	μ Aurigæ	B	56.2	59.4	2.6	8.8	12.0	15.3	24.8	27.9	30.9	34.2	5. 6. 15.22		15.03			5. 6. 19.60	- 0.95			
	5	Capella	B	35.8	39.3	42.9	50.0	53.8	57.4	...	...	...	...	5. 8. 57.20		56.89			5. 9. 1.46	- 1.00			
	6	Rigel	B	...	...	...	23.2	25.8	28.1	35.8	38.1	40.6	43.3	5. 9. 28.22		28.48	33.08	4.60	5. 9. 33.05	- 0.74			
	7	β Aurigæ	B	...	...	...	44.0	47.6	51.1	1.7	5.1	8.5	12.2	5. 51. 51.13		50.84			5. 51. 55.41	- 1.44			
	8	μ Geminorum.....	B	20.9	23.4	26.1	31.6	34.2	37.0	45.0	47.6	50.2	53.1	6. 16. 36.92		36.90	41.47	4.57	6. 16. 41.47	- 1.39			
	9	γ Geminorum..R.	B	23.1	...	...	33.4	36.0	38.5	46.2	...	...	54.0	6. 31. 38.54		39.04	43.61	4.57	6. 31. 43.61	- 1.41			
	10	Sirius.....	B	14.6	17.2	19.8	24.9	27.5	30.1	38.0	40.5	42.9	45.6	6. 40. 30.12		30.45			6. 40. 35.02	- 1.09			
	11	Lacaille 2462.....	B	...	7.4	10.0	15.5	18.1	20.9	29.2	31.9	34.5	...	6. 45. 20.96		21.36			6. 45. 25.93	- 1.04			
	12	Lalande 13351 ...	B	26.5	29.2	31.9	37.0	39.8	42.3	50.1	52.7	55.3	58.1	6. 48. 42.30		42.65			6. 48. 47.22	- 1.12			
	13	Cephei 51	B	46.9	51.2	56.4	5.7	28.6	33.3	37.3	40.7	51.4	55.7	6. 52. 9.22		59.64			6. 52. 4.21	- 17.39			
	14	Piazzi VI. 305 ...	B	...	36.9	39.7	45.4	48.2	51.2	59.8	2.5	5.3	...	6. 56. 51.15		51.06			6. 56. 55.63	- 1.76			
	15	Piazzi VI. 311 ...	B	36.6	39.2	41.9	47.1	49.9	52.4	0.4	3.0	5.6	8.3	6. 57. 52.45		52.45			6. 57. 57.02	- 1.63			
	16	ζ Geminorum ...	B	37.7	40.2	42.9	48.3	50.9	53.6	1.4	4.1	6.6	9.5	6. 57. 53.53		53.53	58.04	4.51	6. 57. 58.10	- 1.63			
	17	Groombridge 1266	B	21.5	26.9	32.2	42.9	48.4	53.9	9.9	15.1	20.2	25.9	7. 2. 53.71		52.98			7. 2. 57.55	- 2.89			
	18	Piazzi VI. 285 ...	B	...	20.4	37.0	9.9	26.9	43.5	33.7	50.1	6.1	...	7. 5. 43.56		40.58			7. 5. 45.15	- 7.09			
	19	Groomb. 2786 S.P.	B	...	...	...	14.0	26.9	31.5	35.5	...	...	...	7. 8. 26.97		27.83			19. 8. 32.40	+ 0.18			
	20	Groomb. 2793 S.P.	B	42.9	46.9	51.4	...	8.7	...	...	26.2	30.2	34.7	7. 10. 8.69		9.55			19. 10. 14.12	+ 0.20			
	21	W. B. (2) VII. 327	B	...	...	...	...	...	8.2	16.1	18.7	21.4	24.2	7. 13. 8.12		8.10			7. 13. 12.68	- 1.75			
	22	* (N.P.D. 67° 49')	B	...	...	41.0	46.2	48.9	51.7	59.6	2.3	...	...	7. 13. 51.63		51.61			7. 13. 56.19	- 1.76			
	23	Groomb. 2847 S.P.	B	9.2	14.0	17.9	22.2	35.4	39.6	44.0	52.5	56.9	1.4	7. 22. 35.29		36.15			19. 22. 40.73	+ 0.34			
	24	Groomb. 2850 S.P.	B	...	...	...	...	41.5	46.0	50.2	58.9	2.9	7.5	7. 23. 41.65		42.49			19. 23. 47.07	+ 0.33			
	25	λ Ursæ Min. S.P..	B	10.7	14.5	19.1	22.4	39.1	43.3	48.0	51.3	2.5	6.0	7. 25. 28.61		55.28			19. 25. 59.86	+ 56.61			
	26	ι Cygni S.P.	B	35.6	39.8	43.6	47.7	59.5	3.5	7.4	15.4	19.1	23.4	7. 26. 59.48		0.25			19. 27. 4.83	+ 0.22			
	27	Groomb. 2899 S.P.	B	...	...	...	...	...	55.1	0.5	6.1	38.9	7. 33. 33.18		34.29			19. 33. 38.87	+ 1.03				
	28	Groomb. 2947 S.P.	B	...	...	...	...	24.2	31.3	38.5	52.2	59.0	6.5	7. 43. 24.33		25.76			19. 43. 30.34	+ 1.89			
	29	Groomb. 2953 S.P.	B	...	...	...	...	...	37.4	42.1	47.0	15.6	...	7. 46. 18.01		18.99			19. 46. 23.57	+ 0.87			
	30	Groomb. 2979 S.P.	B	36.6	40.5	44.5	48.2	0.0	3.9	7.7	15.6	19.5	23.3	7. 51. 59.96		0.71			19. 52. 5.29	+ 0.43			
	31	Groombridge 1119	B	53.5	58.5	2.2	5.8	27.1	32.7	37.4	47.5	51.3	58.1	7. 55. 8.36		42.65			7. 54. 47.23	- 67.01			
	32	Groomb. 3040 S.P.	B	19.5	25.5	30.9	36.3	52.9	58.5	4.1	15.3	20.7	26.4	8. 1. 52.99		54.12			20. 1. 58.70	+ 1.45			
	33	Groomb. 3051 S.P.	B	45.5	51.0	56.8	2.3	19.1	24.6	30.1	41.1	46.6	52.3	8. 3. 18.92		20.05			20. 3. 24.63	+ 1.48			
	34	Jupiter 1 L.	B	13.8	...	19.1	...	...	29.9	...	...	45.7	1.6	8. 5. 29.79					8. 5. 35.85				
	35	Jupiter 2 L.	B	16.8	...	22.1	...	...	32.8	...	43.3	...	48.6	8. 5. 32.74									
	36	β Cancri.....	B	34.7	37.1	39.7	44.6	47.1	49.7	57.2	59.6	2.1	4.8	8. 10. 49.67		49.77	54.36	4.59	8. 10. 54.35	- 1.88			
	37	Piazzi VIII. 34...	B	44.2	46.7	49.3	54.2	56.9	59.4	6.8	9.4	11.9	14.3	8. 11. 59.32		59.42			8. 12. 4.00	- 1.89			
	38	Piazzi VIII. 36...	B	27.2	29.7	32.1	37.1	39.6	42.2	49.8	52.2	54.7	57.4	8. 12. 42.21		42.31			8. 12. 46.89	- 1.90			
	39	Groomb. 3145 S.P.	B	48.6	53.2	57.5	1.9	14.8	19.1	23.4	32.1	36.6	40.9	8. 16. 14.79		15.65			20. 16. 20.23	+ 0.92			
	40	Groomb. 3153 S.P.	B	51.0	55.4	59.3	3.1	15.4	19.3	23.6	31.5	35.4	39.7	8. 18. 15.35		16.13			20. 18. 20.71	+ 0.74			
	41	Groomb. 3167 S.P.	B	...	...	...	...	...	30.9	34.9	39.1	4.6	...	8. 20. 13.77		14.61			20. 20. 19.19	+ 0.90			
	42	Groomb. 3189 S.P.	B	...	...	40.3	45.6	0.4	5.5	10.3	20.5	...	...	8. 23. 0.41		1.41			20. 23. 5.99	+ 1.36			
	43	Groomb. 3190 S.P.	B	...	...	...	...	...	15.1	24.9	29.9	35.1	...	8. 23. 5.12		6.12			20. 23. 10.70	+ 1.37			
	44	W. B. (2) VIII. 713	B	...	27.0	29.6	34.7	37.5	40.1	48.0	50.5	53.1	...	8. 31. 40.08		40.09			8. 31. 44.67	- 2.17			
	45	Piazzi VIII. 119..	B	...	55.3	58.0	3.2	6.0	8.5	16.3	19.0	21.6	...	8. 33. 8.51		8.52			8. 33. 13.10	- 2.18			
	46	ε Cancri	B	...	...	16.1	21.4	24.1	26.6	34.5	37.2	...	...	8. 34. 26.66		26.67			8. 34. 31.25	- 2.18			
	47	Bradley 1227.....	B	40.1	42.9	45.5	50.6	53.3	56.0	4.0	6.4	9.0	11.8	8. 34. 55.97		55.99			8. 35. 0.57	- 2.19			
	48	Bradley 1228.....	B	33.6	36.1	38.7	44.0	46.6	49.4	57.1	59.8	2.3	5.1	8. 35. 49.28		49.29			8. 35. 53.87	- 2.20			
	49	W. B. (2) VIII. 958	B	...	...	...	14.6	17.5	20.2	28.9	...	...	...	8. 40. 20.31		20.23			8. 40. 24.81	- 2.42			
	50	ι Cancri	B	...	...	...	16.3	19.5	22.1	30.6	...	...	...	8. 40. 22.14		22.06			8. 40. 26.64	- 2.42			
	51	Groomb. 3294 S.P.	B	...	...	...	...	...	37.4	44.6	58.4	5.5	12.2	8. 42. 30.43		31.86			20. 42. 36.44	+ 2.84			
	52	Groomb. 3307 S.P.	B	...	...	...	12.9	27.0	31.9	36.8	...	...	...	8. 46. 27.13		28.08			20. 46. 32.66	+ 1.44			
	53	Groomb. 3309 S.P.	B	...	18.0	22.5	...	41.2	...	...	0.1	4.9	...	8. 46. 41.30		42.25			20. 46. 46.83	+ 1.44			
	54	Groomb. 3411 S.P.	B	...	...	3.6	7.5	20.0	24.0	28.1	36.5	...	...	9. 8. 19.93		20.74			21. 8. 25.32	+ 1.22			

8, 42, 43. Cloudy.

9. Very windy.

13. Observed over wire T with the transit-micrometer set to readings 35° 155, 35° 245, 35° 350, 35° 535, 35° 980, 36° 080, 36° 155, 36° 218, 36° 425, 36° 511.

25. Observed over wire R with the transit-micrometer set to readings 34° 705, 34° 680, 34° 646, 34° 605, 34° 495, 34° 470, 34° 434, 34° 412, 34° 330, 34° 310.

27, 29, 41. Observed over wires Q, P, O and N.

31. Observed over wire T with the transit-micrometer set to readings 35° 939, 35° 979, 36° 009, 36° 026, 36° 189, 36° 217, 36° 265, 36° 321, 36° 365, 36° 403

34. Observed over wires O, Q, T, X and Y.

35. A correction of + 0.02, for defect of illumination, has been applied in forming the concluded transit.

MONTH
1896
MARCH
58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[43]

MONTH	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corr. ected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Redu- ction to Mean R.A. 1896.																		
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.																								
																							s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s
1899	Mar. 25	1	Groomb. 3425 S.P.	B	30.4	...	38.3	42.4	...	58.5	2.8	...	14.5	...	9. 12. 54.49	+ 0.18	55.27				4.56	21. 12. 59.85	+ 1.16																	
		2	Groomb. 3430 S.P.	B	58.4	2.6	6.5	10.4	22.5	26.5	30.7	38.7	42.8	46.9	9. 14. 22.58	(- 4.03)	23.36			[+ 0.05]	21. 14. 27.94	+ 1.17																		
		3	Groomb. 3548 S.P.	B	31.2	38.0	55.5	0.0	11.2	15.9	19.8	29.0	32.9	36.1	9. 19. 41.35	[+ 6.66]	49.54				21. 19. 54.12	+ 2.65																		
		4	DI L.	B	39.9	42.4	45.1	50.2	52.9	55.6	3.6	6.1	8.8	11.6	9. 25. 55.63		55.68				9. 27. 11.26																			
		5	Groomb. 3520 S.P.	B	4.9	9.3	13.2	17.2	29.7	34.0	38.1	46.1	50.2	54.1	9. 33. 29.66		30.46				21. 33. 35.04	+ 1.34																		
		6	Groomb. 3522 S.P.	B	11.5	15.9	19.9	24.0	36.3	40.4	44.6	52.7	56.9	0.5	9. 33. 36.25		37.05				21. 33. 41.63	+ 1.34																		
		7	ε Leonis	B	38.6	41.4	44.0	49.5	52.1	55.0	3.0	5.8	8.4	11.3	9. 39. 54.92		54.88	59.46	4.58		9. 39. 59.46	- 2.57																		
		8	ε Leonis ... (E&E)	B	40.1	56.3	12.7	29.0	45.3	1.6	17.9	...	...	...	9. 39. 54.87		54.83	59.46	4.63		.....																			
		9	μ Leonis	B	32.5	35.1	38.0	43.5	46.1	49.1	57.5	0.1	2.8	5.8	9. 46. 49.06		49.00	53.59	4.59		9. 46. 53.58	- 2.65																		
		10	μ Leonis ... (E&E)	B	33.6	50.0	6.5	23.0	39.7	56.1	12.9	...	...	...	9. 46. 48.99		48.93	53.59	4.66		.....																			
		11	Bradley 2871 S.P.	B	45.9	50.0	54.1	58.2	10.8	14.8	19.1	27.4	31.5	35.9	9. 51. 10.75		11.56				21. 51. 16.14	+ 1.47																		
		12	Groomb. 3626 S.P.	B	54.9	59.0	2.8	6.5	18.1	22.0	26.0	33.5	37.4	41.2	9. 53. 18.12		18.85				21. 53. 23.43	+ 1.25																		
		13	Groomb. 3632 S.P.	B	...	...	...	...	...	...	...	...	...	...	9. 53. 53.11		53.84				21. 53. 58.42	+ 1.25																		
		14	ν Hydræ	B	...	...	...	...	...	...	8.2	10.8	13.4	16.0	10. 0. 0.72		1.02				10. 0. 5.60	- 2.06																		
		15	Regulus	B	32.5	35.0	37.6	42.6	45.2	47.8	55.4	57.7	0.2	2.9	10. 2. 47.70		47.77	52.40	4.63		10. 2. 52.35	- 2.40																		
		16	β Crateris	B	...	...	...	...	...	...	37.8	40.2	42.9	45.9	11. 6. 29.69		30.08				11. 6. 34.66	- 2.19																		
		17	δ Leonis	B	16.9	19.5	22.0	27.4	30.1	32.8	40.6	43.4	46.0	48.7	11. 8. 32.75		32.75	37.39	4.64		11. 8. 37.33	- 2.72																		
		18	86 Leonis	B	...	...	...	...	...	...	...	...	...	...	11. 25. 1.53		1.55				11. 25. 6.13	- 2.69																		
		19	λ Draconis	B	...	...	...	...	...	...	38.5	45.8	52.6	0.1	11. 25. 16.91		15.79				11. 25. 20.37	- 6.48																		
		20	γ Cephei S.P. ...	B	44.4	55.8	7.4	17.9	50.6	2.0	12.9	34.9	46.1	57.2	11. 34. 50.87		53.13				23. 34. 57.71	+ 6.97																		
		21	χ Ursæ Majoris ...	B	10.6	14.3	18.0	25.6	29.2	33.0	44.1	48.0	51.5	55.5	11. 40. 33.00		32.65				11. 40. 37.23	- 3.74																		
		22	Groomb. 4149 S.P.	B	...	...	...	...	...	...	...	...	...	...	11. 45. 11.16		12.27				23. 45. 16.85	+ 2.73																		
		23	Groomb. 4152 S.P.	B	...	...	...	...	...	...	...	...	...	...	11. 45. 45.62		46.75				23. 45. 51.33	+ 2.77																		
		24	Oeltz. Arg. (N.) 12144	B	...	...	...	...	...	...	...	...	...	...	11. 47. 33.11		32.62				11. 47. 37.20	- 4.15																		
		25	γ Ursæ Majoris ...	B	...	...	...	...	...	...	...	...	...	...	11. 48. 21.69		21.20				11. 48. 25.78	- 4.15																		
		26	ο Virginis	B	37.5	40.0	42.5	47.5	50.0	52.5	0.0	2.5	5.0	7.5	11. 59. 52.51		52.61	57.20	4.59		11. 59. 57.19	- 2.54																		
		27	3 Comæ	B	56.1	58.6	1.2	6.3	9.1	11.8	19.5	22.0	24.5	27.3	12. 5. 11.65		11.68				12. 5. 16.27	- 2.68																		
		28	6 Comæ	R.	B	25.2	28.0	30.5	35.8	38.1	40.8	48.8	50.9	53.8	12. 10. 40.83		41.34				12. 10. 45.93	- 2.64																		
		29	Bradley 1672	B	20.6	24.9	29.5	34.5	49.5	54.0	58.1	11.1	15.5	19.8	12. 15. 34.19		18.61				12. 15. 23.20	- 60.75																		
		30	γ Comæ	B	26.7	29.6	32.5	38.0	40.9	43.8	52.1	54.9	57.7	0.6	12. 21. 43.69		43.60				12. 21. 48.19	- 2.91																		
		31	Lalande 23336-7 ..	B	22.6	25.3	27.8	33.0	35.5	38.1	45.9	48.2	50.9	53.6	12. 23. 38.10		38.42				12. 23. 43.01	- 2.35																		
		32	W. B. XII. 379 ...	B	...	...	...	...	...	...	...	...	...	...	12. 25. 13.54		13.81				12. 25. 18.40	- 2.38																		
		33	W. B. XII. 385 ...	B	23.9	26.2	28.7	33.8	36.2	38.7	46.2	48.8	51.2	53.9	12. 25. 38.77		39.04				12. 25. 43.63	- 2.38																		
		34	B.D. + 18° No. 2636	B	26.7	29.2	31.9	37.1	39.8	42.2	50.2	52.6	55.4	58.1	12. 33. 42.33		42.35				12. 33. 46.94	- 2.68																		
		35	B.D. + 14° No. 2534	B	56.1	58.6	1.0	6.1	8.8	11.4	18.9	21.5	23.9	26.6	12. 39. 11.30		11.37				12. 39. 15.96	- 2.60																		
		36	W. B. XII. 632 ...	B	...	...	...	...	...	...	...	...	...	...	12. 39. 39.29		39.36				12. 39. 43.95	- 2.60																		
		37	W. B. XII. 646 ...	B	56.0	58.5	1.1	6.1	8.8	11.3	19.0	21.5	24.0	26.6	12. 40. 11.30		11.37				12. 40. 15.96	- 2.60																		
		38	ν Cassiopeiæ S.P.	B	...	...	...	...	...	...	...	...	...	...	12. 42. 49.67		50.42				0. 42. 55.01	+ 1.33																		
		39	Groombridge 1934 ..	B	...	...	...	...	...	...	...	...	...	...	12. 50. 18.90		18.35				12. 50. 22.94	- 4.15																		
		40	Groomb. 189 S.P.	B	...	...	...	...	...	...	...	...	...	...	12. 51. 16.93		17.92				0. 51. 22.51	+ 2.03																		
		41	Groomb. 201 S.P.	B	...	...	...	...	...	...	...	...	...	...	12. 53. 35.62		36.62				0. 53. 41.21	+ 2.04																		
		42	Radcliffe 285 S.P.	B	...	...	...	...	...	...	...	...	...	...	12. 54. 6.33		7.33				0. 54. 11.92	+ 2.03																		
		43	Polaris S.P.	B	5.8	11.9	18.0	46.1	11.4	13.6	20.7	36.5	...	...	13. 19. 17.65	[+ 6.17]	38.76	42.36	3.60		1. 19. 43.35	+ 71.49																		
		44	η Boötis	B	26.1	28.8	31.4	36.5	39.2	41.9	...	...	...	...	13. 49. 41.83	[+ 5.66]	41.81	46.46	4.65		13. 49. 46.40	- 2.52																		
		45	κ Virginis	B	3.2	5.6	8.1	13.1	15.7	18.1	25.9	28.1	30.7	33.3	14. 7. 18.19		18.40	23.09	4.69		14. 7. 22.99	- 2.31																		
		46	Arcturus	B	37.1	39.9	42.4	47.6	50.2	52.9	0.8	3.5	6.0	8.6	14. 10. 52.91		52.88	57.48	4.60		14. 10. 57.47	- 2.45																		
Mar. 26	47	⊙ 1 L.	AC	53.6	56.0	58.5	3.5	6.0	8.5	16.0	18.3	20.9	23.3	0. 22. 8.47	(- 3.49)					4.62	0. 23. 17.63																			
	48	⊙ 2 L.	AC	2.5	4.9	7.3	12.2	14.8	17.4	24.7	27.1	29.5	32.1	0. 24. 17.26																										
	49	Polaris	AC	28.2	34.2	42.0	48.6	13.2	20.1	31.9	40.1	0.0	6.6	1. 19. 56.57		38.04	42.20	4.16			1. 19. 42.66	+ 71.65																		
	50	ζ Cygni	B	34.6	...	...	...	...	...	...	...	...	...	...	21. 8. 25.81	(- 2.78)	25.78	30.43	4.65		21. 8. 30.44	+ 0.14																		
	51	α Cephei	B	28.1	33.2	38.4	48.9	54.4	0.0	15.4	20.8	26.0	31.5	21. 15. 59.69		59.17				21. 16. 3.83	+ 2.02																			
	52	α Cephei	B	...	...	...	...	...	...	...	...	...	...	...	22. 45. 51.68		51.05				22. 45. 55.72	+ 3.08																		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 8 and 10, + 25".88 and + 25".88.
Correction for passage of Semidiameter, No. 4, + 71".00.

1, 18, 20, 43, 44, 50. Cloudy.

3. Observed over wire R with the transit-micrometer set to readings 36".435, 36".270, 35".865, 35".728, 35".440, 35".340, 35".251, 35".033, 34".951, 34".871.

28. Very windy.

29. Observed over wire T with the transit-micrometer set to readings 36".165, 36".215, 36".283, 36".330, 36".515, 36".580, 36".617, 36".779, 36".831, 36".880.

43. Observed over wire T with the transit-micrometer set to readings 36".758, 36".690, 36".651, 36".403, 36".178, 34".052, 33".990, 33".860.

49. Observed over wire O with the transit-micrometer set to readings 35".037, 35".092, 35".161, 35".228, 35".435, 35".490, 35".593, 35".660, 35".841, 35".909.

50. Observed over wires M, U, V, W and X.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Mar. 26	1	Venus 2 L.	B	...	...	...	...	...	...	...	...	51.2	6.3	22.48.21.18	+ 0.18	21.43			4.62		
	2	α Andromedæ ...	B	38.5	41.5	44.1	49.8	52.5	55.5	4.0	6.6	9.5	12.4	0. 2.55.45	(- 2.78) [+ 5.66]	55.43	0.11	4.68	[+ 0.05] 4.67	22.48.25.67 0. 3. 0.10 + 0.51	
Mar. 27	3	⊙ 1 L.	B	31.5	34.0	36.3	41.4	43.8	46.2	53.8	56.2	58.7	1.4	0. 25.46.34	}	50.91	53.84 41.91	4.71 3.64		0. 26.55.58	
	4	⊙ 2 L.	B	40.1	42.7	45.2	50.1	52.7	...	2.6	5.1	7.5	10.1	0. 27.55.13							
	5	β Andromedæ ...	B	31.1	34.1	37.1	43.2	46.1	49.3	58.2	1.2	4.2	7.5	1. 3.49.21							
	6	Polaris.	B	57.4	7.5	19.6	31.8	44.4	8.2	19.7	30.0	40.5	51.5	1. 19.55.06							
	7	ε Geminorum ...	B	12.4	15.2	18.0	23.3	26.1	28.9	37.1	39.8	42.4	45.3	6. 37.28.86							
	8	Sirius.	B	...	17.2	19.8	24.9	27.5	30.0	37.9	40.4	42.9	...	6. 40.30.10							
	9	θ Geminorum ...	B	35.3	38.1	41.3	47.1	50.1	53.2	2.2	5.1	8.0	11.2	6. 45.53.17							
	10	Cephei 51.	B	31.0	34.4	37.8	41.6	46.4	0.6	4.0	7.6	10.6	14.1	6. 52. 5.83							
	11	Piazzi VI. 305 ...	B	33.9	36.6	39.5	45.1	48.0	50.9	59.4	2.1	5.0	8.0	6. 56.50.86							
	12	ζ Geminorum ...	B	37.5	40.0	42.6	48.0	50.6	53.4	1.2	3.9	6.4	9.2	6. 57.53.29							
	13	45 Geminorum ...	B	5.5	8.1	10.6	15.9	18.3	21.1	28.7	31.3	33.9	36.5	7. 2.21.00							
	14	7 Geminorum ...	B	11.1	14.0	16.9	22.6	25.5	28.2	37.0	39.9	42.5	45.6	7. 4.28.34							
	15	48 Geminorum ...	B	48.0	50.6	53.4	58.9	1.5	4.2	12.3	15.1	17.8	20.5	7. 6. 4.24							
	16	52 Geminorum ...	B	...	...	...	11.9	14.8	17.6	25.7	...	...	...	7. 8.17.51							
	17	53 Geminorum ...	B	7.8	10.5	13.5	19.0	21.8	24.7	33.0	35.8	38.5	41.5	7. 9.24.62							
	18	λ Geminorum ...	B	...	51.0	53.6	58.7	1.2	4.0	11.6	14.1	16.6	...	7. 12. 3.87							
	19	δ Geminorum ...	B	35.8	38.4	41.1	46.3	49.0	51.8	59.8	2.4	5.0	7.9	7. 13.51.76							
	20	59 Geminorum ...	B	45.6	48.5	51.2	56.9	59.6	2.5	10.8	13.6	16.3	19.3	7. 18. 2.44							
	21	ι Geminorum ...	B	56.4	59.2	2.0	7.6	10.4	13.3	21.8	24.4	27.2	30.1	7. 19.13.25							
	22	β Canis Minoris...	B	12.4	14.9	17.3	22.2	24.9	27.4	34.8	37.3	39.8	42.5	7. 21.27.36							
	23	γ Canis Minoris...	B	11.7	14.2	16.7	21.6	24.2	26.8	34.2	36.8	39.2	41.9	7. 22.26.74							
	24	λ Ursæ Min. S.P..	B	10.1	17.7	24.1	30.4	36.9	42.6	48.9	54.6	59.2	3.6	7. 25.39.18							
	25	ν Geminorum ...	B	11.4	14.1	16.9	22.4	25.2	28.1	36.3	39.1	41.9	44.8	7. 29.28.03							
	26	Procyon. ....R.	B	33.3	35.9	38.2	43.1	45.6	48.1	55.6	58.1	0.4	3.1	7. 33.48.15							
	27	Groombridge 1376	B	...	10.1	14.9	25.0	29.9	34.9	49.9	54.5	59.7	...	7. 46.34.89							
	28	Groombridge 1377	B	...	6.1	10.8	20.6	25.8	30.7	45.6	50.5	55.3	...	7. 47.30.71							
	29	1 Cancri.	B	46.7	49.4	52.0	57.0	59.8	2.2	10.0	12.5	15.1	17.8	7. 51. 2.26							
	30	Groombridge 1119	B	29.4	37.4	41.7	46.4	51.0	55.1	59.2	3.6	8.0	13.3	7. 54.59.76							
	31	3 Cancri.	B	31.3	34.0	36.5	41.6	44.2	46.9	54.7	57.2	59.8	2.5	7. 54.46.88							
	32	μ ² Cancri.	B	20.0	22.5	25.2	30.4	33.3	36.0	43.9	46.5	49.2	52.0	8. 1.35.91							
	33	ψ ³ Cancri.	B	52.2	55.0	57.9	3.2	6.0	8.7	17.0	19.6	22.4	25.3	8. 4. 8.74							
	34	Jupiter 1 L.	B	16.6	...	22.0	...	...	32.4	...	43.1	...	48.5	8. 5.32.52							
	35	Jupiter 2 L.	B	19.5	...	24.8	...	...	35.4	...	46.0	...	51.4	8. 5.35.44							
36	κ Cephei S.P.	B	4.2	16.0	27.1	38.4	12.4	23.8	34.9	58.0	9.1	20.2	8. 12.12.36								
37	Groombridge 3156 S.P.	B	...	52.0	59.9	7.9	32.2	40.1	48.6	4.7	13.0	...	8. 15.32.24								
38	Groombridge 3168 S.P.	B	23.9	31.2	38.6	46.0	8.1	15.6	23.3	38.0	45.2	52.6	8. 18. 8.22								
39	ο Ursæ Majoris...	B	6.2	11.3	16.4	26.5	31.9	36.9	52.3	57.4	2.4	7.9	8. 21.36.94								
40	ι ² Cancri.	B	2.7	5.5	8.1	13.4	16.2	19.1	27.1	30.0	32.5	35.4	8. 25.19.01								
41	W.B. (2) VIII. 546	B	47.5	50.1	52.8	58.4	1.1	3.8	12.0	14.5	17.2	20.0	8. 26. 3.75								
42	32 Cancri.	B	32.5	35.1	37.8	43.3	46.0	48.7	56.9	59.7	2.1	5.1	8. 26.48.73								
43	Piazzi VIII. 108..	B	46.5	1.4	3.8	...	...	...	28.6	31.2	46.1	...	8. 30.16.27								
44	W.B. VIII. 726..	B	...	...	6.7	11.5	14.1	16.7	24.1	26.6	...	...	8. 30.16.63								
45	W.B. (2) VIII. 713	B	24.1	26.6	29.3	34.6	37.2	40.0	47.8	50.4	53.1	55.7	8. 31.39.89								
46	Piazzi VIII. 119..	B	52.5	55.1	57.9	3.0	5.8	8.3	16.1	18.8	21.4	24.1	8. 33. 8.31								
47	Piazzi VIII. 124..	B	34.2	37.0	39.6	44.9	47.5	50.1	58.2	0.6	3.3	6.0	8. 33.50.15								
48	B. D. + 20° No. 2165	B	...	...	9.4	14.7	17.4	20.0	28.0	30.6	...	...	8. 34.20.03								
49	Bradley 1224.	B	...	...	10.8	16.0	18.6	21.4	29.1	31.8	...	...	8. 34.21.29								
50	Bradley 1227.	B	40.0	42.6	45.1	50.1	53.0	55.8	3.6	6.2	8.8	11.6	8. 34.55.72								
51	Bradley 1228.	B	...	...	...	...	...	...	57.1	59.7	2.1	5.0	8. 35.49.13								
52	Groombridge 1463	B	52.1	7.4	22.0	36.9	51.5	...	...	...	...	...	8. 40.21.98								
53	12 Hydræ.	B	...	...	...	19.3	22.0	24.4	32.1	...	...	...	8. 41.24.46								

Correction for passage of Semidiameter, No. 1, — 0.43.

1. Cloudy. Observed over wires Y and Z.
6. Observed over wire T with the transit-micrometer set to readings 35° 100, 35° 200, 35° 300, 35° 400, 35° 500, 35° 600, 35° 700, 35° 800, 35° 900, 36° 000, 36° 100.
- 7, 8, 9, 24. Very faint; cloudy.
10. Observed over wire X with the transit-micrometer set to readings 37° 140, 37° 211, 37° 290, 37° 360, 37° 450, 37° 736, 37° 808, 37° 850, 37° 939, 37° 998.
24. Observed over wire T with the transit-micrometer set to readings 35° 371, 35° 321, 35° 278, 35° 238, 35° 193, 35° 140, 35° 089, 35° 050, 35° 024, 34° 980.
30. Observed over wire T with the transit-micrometer set to readings 34° 477, 34° 548, 34° 576, 34° 616, 34° 647, 34° 679, 34° 700, 34° 740, 34° 780, 34° 802.
35. A correction of + 0.02, for defect of illumination, has been applied in forming the concluded transit.
43. Observed over wires N, O, P, W, X and Y.
52. Observed over wire T with the transit-micrometer set to readings 33° 600, 34° 600, 35° 600, 36° 600, 37° 600.

MO.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock slow at Sidereal and (Losing Rate).	Apparent of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Mar. 27	1	59 Cancri	B	11.8	14.8	17.6	23.5	26.5	29.4	38.5	41.4	44.2	47.3	8. 50. 29.51	+ 0.18	29.52			4.67	8. 50. 34.21	- 2.56
	2	W. B. (2) VIII. 1193.	B	32.0	34.9	37.9	43.8	46.7	49.7	58.6	1.4	4.2	7.4	8. 50. 49.67	(- 1.78)	49.68			[+ 0.05]	8. 50. 54.37	- 2.56
	3	σ ³ Cancri	B	...	23.1	26.0	31.7	34.6	37.4	46.0	48.9	51.8	...	8. 51. 37.46	[+ 5.66]	37.49				8. 51. 42.18	- 2.49
	4	Groombridge 1494	B	56.1	59.9	3.8	11.5	15.4	19.3	30.9	34.6	38.4	42.3	8. 54. 19.24		19.08				8. 54. 23.77	- 3.27
	5	Oeltz. Arg. (N.) 9494	B	56.8	0.6	4.5	12.2	16.2	20.1	31.6	35.4	39.3	43.2	8. 54. 20.01		19.85				8. 54. 24.54	- 3.27
	6	W. B. (2) VIII. 1371-2	B	...	...	...	...	...	...	50.9	54.1	57.2	0.6	8. 58. 41.43		41.41				8. 58. 46.10	- 2.79
	7	Piazzi VIII. 243..	B	...	...	...	6.7	10.0	13.2	22.6	...	...	...	8. 59. 13.14		13.12				8. 59. 17.81	- 2.79
	8	Piazzi VIII. 245..	B	34.0	37.2	40.2	46.6	49.9	53.0	2.5	5.8	8.9	12.1	8. 59. 53.03		53.01				8. 59. 57.70	- 2.79
	9	Groomb. 3403 S.P.	B	...	...	...	...	...	...	11.8	26.8	34.4	42.1	9. 2. 56.68		57.80				21. 3. 2.49	+ 3.36
	10	π ¹ Cancri	B	18.1	20.7	23.2	28.3	31.0	33.6	41.2	43.7	46.2	48.9	9. 6. 33.50		33.64				9. 6. 38.33	- 2.22
	11	Groomb. 3414 S.P.	B	30.6	37.9	42.7	48.3	6.3	12.2	18.2	30.0	36.0	41.9	9. 8. 6.30		7.20				21. 8. 11.89	+ 2.35
	12	83 Cancri	B	52.5	55.1	57.6	2.9	5.5	8.1	16.0	18.5	21.1	23.9	9. 13. 8.13		8.25	12.91	4.66		9. 13. 12.94	- 2.30
	13	Groombridge 1539	B	19.9	23.0	26.1	32.6	36.0	39.1	48.8	52.0	55.1	58.8	9. 14. 39.15		39.12				9. 14. 43.81	- 2.92
	14	Radcliffe 2317 ...	B	...	...	...	17.4	21.4	25.1	36.7	...	...	...	9. 15. 25.16		25.00				9. 15. 29.69	- 3.40
	15	6 Cephei S.P. ...	B	...	...	...	...	...	...	4.7	10.5	16.2	27.9	9. 17. 4.79		5.66				21. 17. 10.35	+ 2.32
	16	Groomb. 3548 S.P.	B	8.9	15.8	22.6	28.0	50.5	56.0	0.7	6.1	10.8	15.7	9. 19. 43.92		49.47				21. 19. 54.16	+ 26.02
	17	τ ² Hydræ	R	22.9	25.4	27.9	32.8	35.4	37.8	45.2	47.6	50.1	52.7	9. 26. 37.79		38.17				9. 26. 42.86	- 2.05
	18	Groomb. 3519 S.P.	B	...	...	...	10.1	44.9	56.1	8.0	...	...	...	9. 29. 44.74		46.38				21. 29. 51.07	+ 6.28
	19	ι Hydræ	B	15.0	17.5	19.9	24.9	27.3	29.9	37.3	39.8	42.0	44.6	9. 34. 29.83		30.07				9. 34. 34.76	- 2.09
	20	ο Leonis	S	18.3	20.9	23.4	28.4	31.1	33.6	41.1	43.6	46.1	48.7	9. 35. 33.53		33.70	38.23	4.53	4.49	.....	.....
	21	ε Leonis	S	38.6	41.3	44.0	49.3	52.2	54.9	3.0	5.8	8.4	11.2	9. 39. 54.88		54.96	59.44	4.48		.....	.....
	22	μ Leonis	DE	32.3	35.1	37.9	43.4	46.2	49.1	57.3	59.9	2.6	5.6	9. 46. 48.95		49.02	53.57	4.55	4.56	.....	.....
	23	μ Leonis ... (E&E)	DE	32.7	49.4	...	...	...	...	55.5	12.0	...	...	9. 46. 48.86		48.93	53.57	4.64		.....	.....
	24	π Leonis	DE	25.6	28.1	30.5	35.6	38.0	40.5	48.1	50.5	53.0	55.5	9. 54. 40.55		40.73	45.33	4.60		.....	.....
	25	π Leonis ... (E&E)	DE	29.0	44.0	...	...	...	...	43.9	59.0	...	...	9. 54. 40.44		40.62	45.33	4.71		.....	.....
	26	ρ Sextantis	B	54.1	56.7	59.2	4.1	6.5	9.1	16.5	18.9	21.5	24.0	10. 24. 9.07		9.31			4.67	10. 24. 14.00	- 2.24
	27	ρ Leonis	B	...	...	...	12.6	15.1	17.8	25.3	27.7	30.1	32.7	10. 27. 17.68		17.85	22.51	4.66		10. 27. 22.54	- 2.41
	28	Piazzi XXII. 156 S.P.	B	4.5	9.4	13.7	18.0	31.4	36.0	40.2	49.1	53.5	58.0	10. 29. 31.36		32.05				22. 29. 36.74	+ 1.80
	29	Groomb. 3847 S.P.	B	58.7	3.0	7.5	12.0	25.4	29.7	34.1	43.1	47.6	52.0	10. 34. 25.29		25.98				22. 34. 30.67	+ 1.83
	30	Groomb. 3862 S.P.	B	33.9	38.1	42.2	46.2	58.8	2.9	6.9	15.4	19.5	23.7	10. 37. 58.74		59.38				22. 38. 4.07	+ 1.60
	31	Groomb. 3877 S.P.	B	58.0	2.2	6.1	10.1	22.2	26.2	30.2	38.2	42.1	46.1	10. 40. 22.12		22.74				22. 40. 27.43	+ 1.50
	32	Groomb. 3894 S.P.	B	...	...	4.9	9.1	21.6	25.5	30.0	38.3	...	...	10. 44. 21.55		22.19				22. 44. 26.88	+ 1.65
	33	Groomb. 3901 S.P.	B	...	...	20.5	24.2	35.9	39.6	43.5	51.3	...	...	10. 45. 35.81		36.40				22. 45. 41.09	+ 1.38
	34	Groomb. 3915 S.P.	B	52.5	56.2	0.2	4.0	15.5	19.4	23.2	30.8	34.5	38.4	10. 48. 15.45		16.04				22. 48. 20.73	+ 1.37
	35	Groomb. 3944 S.P.	B	53.6	59.1	4.4	9.8	26.0	31.4	36.6	47.5	52.6	58.0	10. 54. 25.88		26.70				22. 54. 31.39	+ 2.59
	36	3 Andromedæ S.P.	B	...	...	...	...	...	...	32.0	39.4	43.1	46.9	10. 59. 24.16		24.74				22. 59. 29.43	+ 1.36
	37	Groomb. 3982 S.P.	B	...	...	...	...	...	...	52.2	57.8	8.5	14.1	11. 1. 46.96		47.78				23. 1. 52.47	+ 2.63
	38	2 Cassiopeæ S.P.	B	41.1	46.0	50.5	55.1	9.8	14.6	19.3	28.8	33.4	38.2	11. 5. 9.66		10.40				23. 5. 15.09	+ 2.15
	39	Groomb. 4000 S.P.	B	47.3	52.1	57.1	1.5	15.9	20.6	25.5	35.2	40.0	44.5	11. 5. 15.95		16.69				23. 5. 21.38	+ 2.15
	40	Oeltz. Arg. (N.) 25287 S.P.	B	...	...	40.1	50.3	...	...	39.4	59.5	...	...	11. 7. 19.73		21.17				23. 7. 25.86	+ 6.03
	41	Bradley 3084 S.P.	B	26.4	30.8	34.6	38.7	50.9	55.1	59.2	7.3	11.5	15.5	11. 11. 50.98		51.61				23. 11. 56.30	+ 1.60
	42	δ Crateris	B	50.2	52.8	55.3	0.6	3.0	5.6	13.3	15.9	18.2	20.9	11. 14. 5.59		5.90	10.64	4.74		11. 14. 10.59	- 2.25
	43	79 Leonis	B	...	...	...	...	...	...	46.9	49.5	52.0	54.3	11. 18. 39.56		39.78				11. 18. 44.47	- 2.42
	44	δ L.	B	24.8	27.2	29.7	34.9	37.4	40.0	47.5	50.1	52.6	55.3	11. 18. 39.96		40.18				11. 19. 54.43	.....
	45	Bradley 3147 S.P.	B	11.1	16.0	20.3	32.8	36.6	39.5	49.3	52.1	56.0	59.4	11. 27. 7.85		13.60				23. 27. 18.29	+ 31.20
	46	v Leonis	B	...	...	24.9	29.9	32.3	34.8	42.2	44.8	...	...	11. 31. 34.83		35.06	39.77	4.71		11. 31. 39.75	- 2.40
	47	Groomb. 4133 S.P.	B	52.0	56.6	0.7	...	18.1	...	...	35.2	39.4	44.0	11. 39. 17.98		18.64				23. 39. 23.33	+ 1.79
	48	Groomb. 4135 S.P.	B	5.3	9.9	14.2	...	31.2	...	...	48.4	52.5	56.9	11. 39. 31.18		31.84				23. 39. 36.53	+ 1.78
	49	Groomb. 4152 S.P.	B	12.6	18.1	23.6	29.1	45.8	51.5	57.1	8.0	13.4	19.0	11. 45. 45.81		46.65				23. 45. 51.34	+ 2.73
	50	Oeltz. Arg. (N.) 12144	B	7.3	11.6	15.7	24.2	28.4	32.8	45.5	49.5	53.6	58.1	11. 47. 32.69		32.47				11. 47. 37.16	- 4.14
	51	γ Ursæ Majoris...	B	...	0.1	4.2	12.9	17.1	21.4	34.0	38.1	42.2	...	11. 48. 21.27		21.05				11. 48. 25.74	- 4.15
	52	Bradley 3203 S.P.	B	16.1	25.3	35.0	44.1	53.6	12.1	21.6	31.3	40.7	50.1	11. 57. 2.99		5.58				23. 57. 10.27	+ 12.50
	53	3 Comæ	R	55.8	58.2	0.8	6.0	8.6	11.3	19.1	21.5	24.1	26.8	12. 5. 11.23		11.56				12. 5. 16.26	- 2.69
	54	6 Comæ	B	...	...	...	...	...	41.1	48.8	51.4	54.0	56.5	12. 10. 41.13		40.27				12. 10. 44.97	- 2.65

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 23 and 25, + 26^m.45 and + 26^m.45.
Correction for passage of Semidiameter, No. 44, + 69^s.55.

16. Observed over wire T with the transit-micrometer set to readings 36^r.440, 36^r.270, 36^r.121, 35^r.980, 35^r.451, 35^r.300, 35^r.198, 35^r.078, 34^r.950, 34^r.828.
44. Correction to R.A. on true meridian, + 0^m.01.
45. Observed over wire R with the transit-micrometer set to readings 36^r.163, 36^r.032, 35^r.951, 35^r.665, 35^r.570, 35^r.495, 35^r.302, 35^r.204, 35^r.126, 35^r.048.
52. Observed over wire T with the transit-micrometer set to readings 38^r.100, 37^r.600, 37^r.100, 36^r.600, 36^r.100, 35^r.100, 34^r.600, 34^r.100, 33^r.600, 33^r.100.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
1898	Mar. 27	1 Bradley 1672.....	B	52.5	57.1	1.4	5.6	22.1	26.8	31.5	44.0	49.5	54.6	12. 15. 29.32	+ 0.18	19.05			4.67	12. 15. 23.75	-60.76	
		2 W. B. XII. 379...	B	...	0.9	3.4	8.2	10.9	13.5	20.9	23.4	26.0	...	12. 25. 13.42	(- 1.78)	13.70			[+ 0.05]	12. 25. 18.40	- 2.39	
		3 W. B. XII. 385...	B	...	...	28.6	33.6	36.0	38.5	46.1	48.5	...	...	12. 25. 38.56	[+ 5.66]	38.84				12. 25. 43.54	- 2.39	
		4 β Corvi	B	36.6	39.1	41.8	47.2	50.0	52.6	0.7	3.3	6.0	8.6	12. 28. 52.60		52.96	57.71	4.75		12. 28. 57.66	- 2.35	
		5 Groomb. 104 S.P.	B	...	...	...	...	26.3	31.1	36.1	46.0	50.8	55.9	12. 31. 26.30		27.06				0. 31. 31.76	+ 2.13	
		6 Groomb. 108 S.P.	B	59.7	4.8	9.4	14.2	29.0	34.1	38.8	48.9	53.7	58.8	12. 32. 29.12		29.88				0. 32. 34.58	+ 2.13	
		7 Groomb. 127 S.P.	B	...	47.9	55.4	...	...	...	...	53.6	1.3	...	12. 37. 24.47		25.56				0. 37. 30.26	+ 3.83	
		8 ν Cassiopeiæ S.P.	B	26.4	30.5	34.2	38.1	49.9	53.6	57.5	5.3	9.2	13.1	12. 42. 49.76		50.36				0. 42. 55.06	+ 1.32	
		9 Groomb. 189 S.P.	B	47.5	52.4	57.4	2.2	16.9	22.0	26.9	36.5	41.4	46.3	12. 51. 16.93		17.69				0. 51. 22.39	+ 2.03	
		10 Groomb. 197 S.P.	B	...	...	...	0.0	...	29.9	37.5	52.1	59.5	6.9	12. 53. 22.52		23.62				0. 53. 28.32	+ 3.74	
		11 Groomb. 227 S.P.	B	32.1	37.0	41.4	46.0	59.9	4.3	...	18.1	22.7	...	12. 57. 59.77		0.48				0. 58. 5.18	+ 1.77	
		12 Oeltz. Arg. (N.) 1043 S.P.	B	...	39.9	44.2	48.7	2.7	7.2	11.6	20.8	25.7	...	12. 58. 2.57		3.28				0. 58. 7.98	+ 1.77	
		13 Groomb. 229 S.P.	B	...	...	...	55.3	8.7	...	...	27.1	32.0	36.3	12. 58. 8.84		9.55				0. 58. 14.25	+ 1.77	
		14 Bradley 117 S.P...	B	...	...	...	23.4	4.1	16.1	30.0	...	...	...	13. 3. 3.36		5.22				1. 3. 9.92	+ 7.50	
		15 16 Canum Venaticum	B	...	57.2	0.5	6.6	10.0	13.1	22.7	26.0	29.1	...	13. 5. 13.17		13.14				13. 5. 17.84	- 3.14	
		16 Polaris S.P.....	B	29.0	33.1	36.8	42.2	3.6	8.6	34.2	41.4	52.1	56.2	13. 19. 23.86		38.65	41.80	3.15		1. 19. 43.35	+72.05	
		17 Piazzzi XIII. 109 R.	B	40.9	49.1	56.8	...	...	...	...	...	...	...	13. 23. 31.07		31.02				13. 23. 35.72	- 6.53	
		18 Piazzzi XIII. 109...	B	...	...	...	...	...	...	56.8	5.3	13.3	22.1	13. 23. 31.52		30.71				13. 23. 35.41	- 6.53	
		19 ζ Virginis	B	6.1	8.7	11.1	16.0	18.5	21.1	28.3	30.9	33.1	36.0	13. 29. 20.99		21.22	25.97	4.75		13. 29. 25.92	- 2.42	
		20 ζ Virginis (E&E)	B	10.0	24.9	39.7	54.6	9.4	24.1	38.9	...	...	...	13. 29. 21.00		21.23	25.97	4.74		.....	.....	
		21 Lalande 25168 ...	B	9.4	11.9	14.2	19.5	22.1	24.7	32.4	34.9	37.4	40.0	13. 32. 24.66		24.97				13. 32. 29.67	- 2.38	
		22 m Virginis	B	51.5	54.0	56.5	1.5	4.0	6.4	14.0	16.3	18.8	21.4	13. 36. 6.45		6.73	11.48	4.75		13. 36. 11.43	- 2.38	
		23 W. B. XIII 595...	B	0.5	3.0	5.5	10.6	13.1	15.8	23.5	26.1	28.5	31.3	13. 37. 15.80		16.11				13. 37. 20.81	- 2.37	
		24 Groombridge 2035	B	...	...	...	...	49.7	55.7	13.8	19.9	25.8	32.0	13. 38. 55.75		55.27				13. 38. 59.97	- 4.82	
		25 Piazzzi I. 176 S.P.	B	...	...	55.3	59.2	11.2	15.2	19.3	27.2	...	...	13. 44. 11.21		11.82				1. 44. 16.52	+ 1.07	
		26 Lalande 25500 ...	B	...	...	...	...	...	19.0	28.2	31.1	34.1	37.3	13. 45. 19.05		19.05				13. 45. 23.75	- 2.87	
		27 B. F. 1904	B	9.0	12.1	15.1	21.1	24.1	27.2	36.2	39.4	42.3	45.6	13. 46. 27.22		27.22				13. 46. 31.92	- 2.87	
		28 τ Virginis	B	3.6	6.2	8.6	13.6	16.1	18.5	26.1	28.5	30.9	33.5	13. 56. 18.57		18.78	23.52	4.74		13. 56. 23.48	- 2.38	
		29 τ Virginis (E&E)	B	...	22.6	37.1	51.9	7.0	21.6	...	...	...	...	13. 56. 18.54		18.75	23.52	4.77		.....	.....	
		30 ρ Boötis	B	1.4	4.1	7.1	12.9	15.8	18.6	27.2	30.1	32.9	36.0	14. 27. 18.62		18.65	23.43	4.78		14. 27. 23.35	- 2.58	
1898	Mar. 28	31 μ Geminorum ...	H	...	...	...	31.4	34.1	36.9	44.9	47.4	50.1	52.9	6. 16. 36.81	(- 1.56)	36.85	41.41	4.56	4.53	.....	.....	
		32 ν Geminorum ...	H	...	...	...	38.8	41.4	44.0	52.0	54.5	57.1	59.9	6. 22. 44.04	[+ 3.82]	44.09	48.60	4.51	[+ 0.02]	.....	.....	
		33 γ Geminorum ...	S	...	26.0	28.5	33.7	36.2	38.9	46.6	49.2	51.7	...	6. 31. 38.87		38.94	43.55	4.61	4.60	6. 31. 43.55	- 1.35	
		34 ε Geminorum	S	12.4	15.1	17.9	23.3	26.1	28.9	37.1	39.8	42.4	45.3	6. 37. 28.84		28.87				6. 37. 33.48	- 1.50	
		35 Sirius	S	14.7	17.2	19.9	24.9	27.6	30.1	38.0	40.4	43.0	45.7	6. 40. 30.16		30.38				6. 40. 34.99	- 1.03	
		36 Cephei 51	S	36.9	46.4	7.0	12.6	23.5	30.1	40.9	46.5	55.8	4.2	6. 52. 2.59		58.04	1.39	3.35		.....	.....	
		37 45 Geminorum...	S	5.6	8.1	10.7	15.9	18.3	21.1	28.7	31.4	33.9	36.5	7. 2. 21.03		21.10				7. 2. 25.71	- 1.55	
		38 48 Geminorum...	S	...	...	...	...	...	12.2	15.0	17.8	20.5		7. 6. 4.19		4.23				7. 6. 8.84	- 1.69	
		39 λ Geminorum ...	S	48.4	50.9	53.5	58.6	1.3	4.0	11.6	14.1	16.7	19.5	7. 12. 3.87		3.94				7. 12. 8.55	- 1.61	
		40 β Canis Minoris..	S	12.4	14.9	17.5	22.4	24.9	27.5	35.0	37.5	40.0	42.5	7. 21. 27.47		27.57	32.17	4.60		7. 21. 32.18	- 1.55	
		41 γ Canis Minoris..	S	11.8	14.2	16.9	22.0	24.4	26.9	34.2	36.9	39.4	42.0	7. 22. 26.88		26.98				7. 22. 31.59	- 1.57	
		42 λ Ursæ Min. S.P..	S	46.5	54.0	8.8	13.7	23.8	30.0	41.4	47.7	56.8	2.1	7. 25. 46.83		59.69	6.69	7.00		.....	.....	
		43 Procyon	S	33.6	36.1	38.5	43.4	46.0	48.5	56.0	58.4	0.8	3.3	7. 33. 48.47		48.59	53.12	4.53		7. 33. 53.20	- 1.57	
		44 Pollux	S	37.5	40.4	43.2	48.8	51.6	54.5	3.1	5.8	8.5	11.4	7. 38. 54.49		54.50	59.09	4.59		7. 38. 59.11	- 1.95	
		45 φ Geminorum ...	S	48.6	51.5	54.1	59.8	2.6	5.4	13.8	16.4	19.1	22.0	7. 47. 5.34		5.36				7. 47. 9.97	- 2.01	
		46 1 Cancri	S	46.9	49.3	52.0	57.1	59.9	2.3	10.0	12.6	15.1	17.9	7. 51. 2.32		2.39				7. 51. 7.00	- 1.84	
		47 3 Cancri	S	31.3	34.0	36.5	41.6	44.2	47.0	54.8	57.3	59.9	2.6	7. 54. 46.93		47.00				7. 54. 51.61	- 1.88	
		48 μ² Cancri	S	20.0	22.6	25.4	30.6	33.4	36.0	44.0	46.6	49.4	52.0	8. 1. 36.01		36.06				8. 1. 40.67	- 2.00	
		49 Jupiter 1 L.	S	19.1	...	24.5	...	...	35.1	...	45.8	...	51.1	8. 5. 35.12						8. 5. 41.24	.....	
		50 Jupiter 2 L.	S	22.1	...	27.3	...	...	38.0	...	48.7	...	54.0	8. 5. 38.04						.....	.....	
		51 d¹ Cancri	S	6.1	8.8	11.4	16.6	19.3	22.0	29.8	32.3	34.9	37.7	8. 17. 21.90		21.97	26.57	4.57		8. 17. 26.58	- 2.03	
		52 30 Monocerotis...	S	9.9	12.2	14.9	19.8	22.3	24.8	32.1	34.6	37.0	39.6	8. 20. 24.73		24.89				8. 20. 29.50	- 1.71	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 20 and 29, + 26.49 and + 26.50.

- Observed over wire T with the transit-micrometer set to readings 36.618, 36.670, 36.705, 36.760, 36.780, 37.021, 37.105, 37.240, 37.301, 37.375.
- Observed over wire T with the transit-micrometer set to readings 36.082, 36.042, 36.010, 35.974, 35.944, 35.910, 35.874, 35.840, 35.804, 35.768, 35.732, 35.696, 35.660, 35.624, 35.588, 35.552, 35.516, 35.480, 35.444, 35.408, 35.372, 35.336, 35.300.
- Very faint; diffused; windy.
- Very unsteady. Observed over wire X with the transit-micrometer set to readings 34.964, 35.161, 35.569, 35.674, 35.898, 36.027, 36.240, 36.340, 36.504, 36.682.
- Very faint.
- Observed over wire T with the transit-micrometer set to readings 35.178, 35.107, 35.002, 34.977, 34.893, 34.850, 34.782, 34.718, 34.661, 34.609.
- Very faint; cloudy.
- A correction of + 0.02, for defect of illumination, has been applied in forming the concluded transit.

MONTH	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
1896																						
Mar. 28	1	29 Cancri	S	31.1	33.6	36.1	41.3	44.0	46.4	54.1	56.6	59.0	1.7	8. 22. 46.40	+ 0.18	46.48			4.60	3. 22. 51.09 — 1.99		
	2	θ Cephei S.P. ...	S	...	...	...	...	43.5	48.9	54.7	5.1	10.4	16.0	8. 27. 43.62	(— 1.56)	44.18			[+ 0.02]	20. 27. 48.79 + 1.52		
	3	W. B. (2) VIII. 713	S	24.1	26.8	29.6	34.6	37.2	39.9	48.0	50.4	53.1	55.9	8. 31. 39.97	[+ 3.82]	40.02				8. 31. 44.63 — 2.13		
	4	A ¹ Cancri	S	10.5	13.1	15.7	20.6	23.2	28.9	33.4	36.0	38.4	41.1	8. 37. 25.80		25.88				8. 37. 30.49 — 2.04		
	5	ε Hydræ	D	58.1	0.8	3.4	8.2	10.9	13.5	20.9	23.1	25.8	28.2	8. 41. 13.30		13.41	18.01	4.60	4.62	.....		
	6	η Cephei S.P. ...	S	...	...	...	48.1	3.8	8.9	14.2	...	...	...	8. 43. 3.73		4.28			4.60	20. 43. 8.89 + 1.57		
	7	59 Cancri	S	11.9	14.8	17.8	23.5	26.6	29.5	38.4	41.4	44.1	47.4	8. 50. 29.55		29.53				8. 50. 34.14 — 2.55		
	8	α Cancri	D	30.1	32.6	35.2	40.1	42.7	45.3	53.0	55.5	58.0	0.6	8. 52. 45.32		45.41	50.06	4.65	4.62	.....		
	9	Lalande 17835 ...	S	21.5	24.0	26.5	31.4	33.9	36.3	43.9	46.2	48.6	51.2	8. 56. 36.36		36.50			4.60	8. 56. 41.11 — 1.93		
	10	κ Cancri	S	49.2	51.8	54.2	59.2	1.9	4.2	11.9	14.2	16.8	19.3	9. 2. 4.28		4.38	8.98	4.60		9. 2. 8.99 — 2.11		
	11	Groomb. 3409 S.P.	S	...	...	...	14.4	37.2	44.9	52.9	...	...	...	9. 5. 37.33		38.12				21. 5. 42.73 + 3.37		
	12	77 Draconis S.P.	S	...	...	...	48.0	23.1	34.5	46.3	...	...	...	9. 7. 22.94		24.11				21. 7. 28.72 + 5.94		
	13	Groombridge 1535	S	9.1	12.4	15.6	22.1	25.4	28.6	38.3	41.5	44.5	48.0	9. 13. 28.56		28.52				9. 13. 33.13 — 2.90		
	14	Groomb. 3448 S.P.	S	...	...	...	42.1	58.1	3.4	8.8	...	...	...	9. 17. 58.08		58.64				21. 18. 3.25 + 1.98		
	15	τ ² Hydræ	S	23.1	25.7	28.1	33.1	35.6	38.1	45.5	48.0	50.3	53.1	9. 26. 38.07		38.22				9. 26. 42.83 — 2.05		
	16	μ Leonis	S	32.2	35.1	37.9	43.4	46.1	48.8	57.2	0.0	2.8	5.6	9. 46. 48.92		48.94	53.56	4.62		9. 46. 53.55 — 2.62		
	17	Piazzi XXI. 360 S.P.	S	2.6	8.4	13.9	19.1	35.5	41.1	46.7	57.6	3.0	8.4	9. 53. 35.61		36.19				21. 53. 40.80 + 2.38		
	18	Groomb. 3671 S.P.	S	...	...	...	...	...	...	6.4	18.5	24.4	30.5	9. 59. 54.51		55.15				21. 59. 59.76 + 2.79		
	19	Groomb. 3702 S.P.	S	...	...	33.3	40.9	4.9	12.8	21.0	36.8	...	...	10. 5. 4.92		5.75				22. 5. 10.36 + 4.25		
	20	24 Cephei S.P. ...	S	51.1	59.8	7.4	15.3	39.1	46.8	54.9	10.6	18.6	26.5	10. 7. 38.97		39.80				22. 7. 44.41 + 4.26		
	21	μ Ursæ Majoris...	S	46.8	50.0	53.4	0.0	3.4	6.8	16.8	20.0	23.4	26.8	10. 16. 6.76		6.70				10. 16. 11.31 — 3.26		
	22	44 Leonis	S	28.9	31.4	34.0	39.0	41.5	44.0	51.5	54.0	56.4	59.1	10. 19. 43.99		44.09				10. 19. 48.70 — 2.38		
	23	Oeltz. Arg. (N.) 22424 S.P.	S	...	...	58.2	6.0	30.0	38.1	46.0	1.5	...	...	10. 25. 29.94		30.76				22. 25. 35.37 + 4.36		
	24	Groomb. 3827 S.P.	S	...	...	...	...	...	...	25.9	40.0	47.2	54.3	10. 30. 11.33		12.09				22. 30. 16.70 + 3.85		
	25	Groomb. 3840 S.P.	S	...	...	...	38.1	59.7	6.9	14.2	...	...	...	10. 31. 59.71		0.47				22. 32. 5.08 + 3.88		
	26	41 Leonis Minoris	S	27.5	30.1	32.9	38.4	41.1	43.9	51.9	54.5	57.3	0.0	10. 37. 43.77		43.81				10. 37. 48.42 — 2.72		
	27	Groombridge 1697	S	...	...	56.2	11.0	18.4	25.9	48.0	55.1	...	...	10. 46. 25.80		25.29				10. 46. 29.90 — 6.50		
	28	67 Leonis	S	56.0	58.7	1.5	6.9	9.8	12.5	20.9	23.4	26.0	28.9	11. 3. 12.47		12.50				11. 3. 17.11 — 2.81		
	29	π Cephei S.P. ...	S	...	...	46.1	55.8	24.2	33.4	43.3	2.2	...	...	11. 4. 24.13		25.10				23. 4. 29.71 + 5.69		
	30	Oeltz. Arg. (N.) 25287 S.P.	S	...	...	...	...	20.4	30.3	40.4	59.7	9.8	19.9	11. 7. 20.55		21.56				23. 7. 26.17 + 5.99		
	31	Groomb. 4041 S.P.	S	...	...	...	...	19.4	24.3	29.4	39.6	44.5	49.7	11. 15. 19.36		19.90				23. 15. 24.51 + 2.35		
	32	4 Cassiopeiæ S.P.	S	...	...	...	...	5.5	10.6	16.0	26.2	31.5	36.9	11. 20. 5.46		6.01				23. 20. 10.62 + 2.49		
	33	Bradley 3147 S.P.	S	37.5	44.5	57.8	4.3	54.8	27.5	39.1	3.8	25.9	35.1	11. 27. 9.71		13.84				23. 27. 18.45 + 31.08		
	34	Radcliffe 2724 ...	S	...	...	...	7.3	10.9	14.4	25.0	...	...	...	11. 33. 14.41		14.32				11. 33. 18.93 — 3.59		
	35	Groombridge 1812	S	...	...	1.3	8.2	11.9	15.4	26.1	29.5	...	...	11. 33. 15.41		15.32				11. 33. 19.93 — 3.57		
	36	Groombridge 1813	S	53.8	57.1	0.9	7.9	11.4	14.9	25.5	29.1	32.7	36.3	11. 34. 14.98		14.89				11. 34. 19.50 — 3.59		
	37	ξ Virginis	S	38.0	40.6	43.2	...	...	53.4	...	3.0	5.5	8.1	11. 39. 53.12		53.22				11. 39. 57.83 — 2.54		
	38	β Leonis	S	27.9	30.2	32.9	38.0	40.5	43.1	51.0	53.5	56.0	58.6	11. 43. 43.18		43.26	47.87	4.61		11. 43. 47.87 — 2.63		
	39	β Virginis	S	59.4	2.0	4.5	9.3	12.0	14.4	22.0	24.3	26.8	29.3	11. 45. 14.41		14.54	19.11	4.57		11. 45. 19.15 — 2.47		
	40	Groomb. 4195 S.P.	S	50.7	57.1	3.2	9.2	27.8	34.0	40.1	52.2	58.5	4.5	11. 55. 27.70		28.35				23. 55. 32.96 + 3.17		
	41	3 Comæ	S	56.0	58.8	1.3	6.3	9.0	11.6	19.4	21.9	24.5	27.2	12. 5. 11.61		11.68				12. 5. 16.29 — 2.69		
	42	δ 1 L.	S	15.5	18.1	20.7	25.6	28.2	30.9	38.5	40.9	43.4	46.1	12. 14. 30.80		30.96				12. 15. 45.52		
	43	β Corvi	S	36.7	39.3	42.0	47.3	50.1	53.0	0.9	3.6	6.1	9.0	12. 28. 52.81		53.05	57.71	4.66		12. 28. 57.66 — 2.35		
	44	Piazzi XII. 152 ...	S	51.4	54.0	56.4	1.4	4.0	6.3	13.9	16.2	18.7	21.3	12. 34. 6.37		6.53				12. 34. 11.14 — 2.43		
	45	28 Virginis	S	17.6	20.1	22.6	27.5	30.0	32.5	40.0	42.5	44.9	47.6	12. 36. 32.54		32.71				12. 36. 37.32 — 2.42		
	46	W. B. XII. 646...	S	56.0	58.5	1.1	6.1	8.8	11.3	19.0	21.4	24.1	26.6	12. 40. 11.30		11.38				12. 40. 15.99 — 2.62		
	47	ψ Virginis	S	39.1	41.5	44.1	49.0	51.6	54.2	1.8	4.2	6.6	9.3	12. 48. 54.15		54.33				12. 48. 58.94 — 2.41		
	48	36 Comæ	S	29.1	31.9	34.5	39.5	42.1	44.9	52.6	55.1	57.8	0.5	12. 53. 44.81		44.88				12. 53. 49.49 — 2.67		
	49	ε Virginis	S	42.6	45.1	47.6	52.8	55.3	57.9	5.4	8.0	10.5	13.1	12. 56. 57.84		57.94	2.55	4.61		12. 57. 2.55 — 2.57		
	50	Groombridge 1954	S	38.3	41.6	44.9	51.4	54.5	57.7	7.5	10.8	14.0	17.5	13. 0. 57.83		57.78				13. 1. 2.39 — 3.20		
	51	Piazzi XIII. 12...	S	16.6	22.2	27.5	38.4	43.8	49.3	5.4	10.9	16.0	21.9	13. 5. 49.22		48.91				13. 5. 53.52 — 4.72		
	52	Spica	S	25.2	27.8	30.2	35.2	37.9	40.2	47.9	50.3	52.9	55.5	13. 19. 40.32		40.51	45.17	4.66		13. 19. 45.12 — 2.40		
	53	Polaris S.P.	S	16.5	26.1	43.6	54.7	11.0	48.9	27.4	58.2	12.1	23.3	13. 19. 28.51		39.16	41.62	2.46		.....		
	54	ε Cassiopeiæ S.P.	S	14.7	20.2	25.6	31.3	47.5	53.0	58.6	9.5	15.1	20.5	13. 46. 47.58		48.16				1. 46. 52.77 + 1.98		

Correction for passage of Semidiameter, No. 42, + 69".94.

3. Very faint.

14. Very faint; cloudy.

33. Observed over wire T with the transit-micrometer set to readings 37° 723, 37° 556, 37° 261, 37° 084, 35° 943, 35° 189, 34° 924, 34° 357, 33° 857, 33° 643.

42. Correction to R.A. on true meridian, + 0°.01.

53. Observed over wire T with the transit-micrometer set to readings 37° 273, 37° 190, 37° 053, 36° 950, 36° 816, 36° 466, 35° 088, 34° 819, 34° 692, 34° 597.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GCM

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Mar. 28	1	50 Cassiopeia S.P.	S	...	44.7	52.5	0.4	24.2	32.4	40.2	56.5	4.2	...	13. 54. 24.34	+ 0.18		25.17			4.60	1. 54. 29.78	+ 3.37
	2	Piazzini I. 230 S.P.	S	...	...	...	...	10.1	15.7	21.6	32.4	38.2	44.0	13. 57. 10.14	(- 1.56)		10.73			[+ 0.02]	1. 57. 15.34	+ 1.96
	3	Groombridge 2082	S	2.8	7.6	12.5	22.3	27.5	32.2	47.1	52.0	56.8	2.0	14. 5. 32.30	[+ 3.82]		32.04				14. 5. 36.65	- 3.90
	4	κ Virginis	S	3.3	5.8	8.2	13.2	16.0	18.4	26.0	28.4	30.8	33.5	14. 7. 18.37			18.56	23.14	4.58		14. 7. 23.17	- 2.36
	5	Arcturus	S	37.0	39.6	42.3	47.5	50.1	52.8	0.6	3.2	6.0	8.7	14. 10. 52.79			52.84	57.53	4.69		14. 10. 57.45	- 2.50
	6	20 Boötis	S	32.1	34.7	37.4	42.3	45.1	47.7	55.4	57.9	0.4	3.3	14. 14. 47.64			47.71				14. 14. 52.32	- 2.47
	7	Bradley 332 S.P.	S	...	...	...	...	22.1	28.6	35.1	47.9	53.5	0.3	14. 20. 22.30			22.97				2. 20. 27.58	+ 2.06
	8	Oeltz. Arg. (N.) 2766 S.P.	S	...	...	...	7.6	26.4	32.6	39.4	...	...	...	14. 21. 26.48			27.15				2. 21. 31.76	+ 2.05
	9	Bradley 353 S.P.	S	21.4	29.5	36.8	...	...	...	...	38.1	46.0	53.7	14. 32. 7.54			8.34				2. 32. 12.95	+ 2.57
	10	Oeltz. Arg. (N.) 2970 S.P.	S	57.4	5.7	13.0	20.3	43.6	51.1	58.7	14.5	22.0	29.4	14. 32. 43.54			44.34				2. 32. 48.95	+ 2.55
	11	ξ Boötis	S	17.4	20.0	22.5	27.8	30.5	33.2	40.9	43.5	46.1	48.8	14. 46. 33.08			33.14				14. 46. 37.75	- 2.37
	12	W.B.(2) XIV. 1142	S	56.9	59.9	2.5	8.0	10.8	13.5	21.6	24.4	27.0	29.9	14. 54. 13.46			13.48				14. 54. 18.09	- 2.39
	13	ω Boötis	S	14.2	17.1	19.9	25.3	28.1	30.8	39.1	41.9	44.5	47.4	14. 57. 30.84			30.86				14. 57. 35.47	- 2.37
	14	Saturn 1 L.	S	54.9	57.4	0.1	4.9	7.8	10.2	18.0	20.5	23.0	25.9	15. 6. 10.28								
	15	Saturn 2 L.	S	56.1	58.8	1.3	6.3	8.9	11.6	19.4	21.8	24.4	27.1	15. 6. 11.58			11.14				15. 6. 15.75	
Mar. 29	16	ν Ursae Majoris...	J	32.1	35.0	38.0	43.9	47.0	49.9	59.1	2.0	4.6	7.9	11. 12. 49.96	(- 1.24)		49.98			4.83	11. 12. 54.79	- 3.06
	17	δ Crateris	J	...	...	...	...	...	...	13.3	15.7	18.1	20.9	11. 14. 5.54	[+ 4.38]		5.78	10.64	4.86	[- 0.04]	.....	
	18	71 Leonis	J	...	...	...	49.8	55.0	57.6	0.2	8.0	10.5	...	11. 17. 0.19			0.30				11. 17. 5.11	- 2.67
	19	ε Leonis	J	12.7	15.3	17.7	22.7	25.3	27.8	35.5	38.0	40.2	42.9	11. 18. 27.82			27.95				11. 18. 32.76	- 2.55
	20	Bradley 3147 S.P.	J	21.6	28.2	34.5	53.9	59.9	27.2	35.9	41.4	46.1	2.0	11. 27. 9.20			13.48				23. 27. 18.29	+ 30.94
	21	ν Leonis	J	20.0	...	...	...	32.2	34.8	...	44.7	47.1	49.8	11. 31. 34.81			35.00	39.78	4.78		.....	
	22	ρ Virginis	J	...	...	...	29.9	32.3	35.0	42.5	44.9	47.4	50.0	12. 36. 34.91			35.05	39.79	4.74		.....	
	23	ψ Virginis	J	38.9	41.5	44.0	49.0	51.5	54.1	1.5	3.9	6.2	9.1	12. 48. 53.98			54.21				12. 48. 59.02	- 2.42
	24	η 2 L.	J	41.2	43.8	46.4	51.6	54.2	56.9	4.6	7.3	9.9	12.3	13. 13. 56.83			57.07				13. 12. 50.79	
	25	Polaris S.P.	J	42.4	47.3	52.5	57.9	14.5	23.8	32.5	53.8	57.6	2.2	13. 19. 28.23			39.22	41.51	2.29		1. 19. 44.03	+ 72.34
	26	Groombridge 2023	J	8.1	11.8	15.6	23.0	26.7	30.5	41.6	45.6	49.2	53.0	13. 33. 30.53			30.44				13. 33. 35.25	- 3.43
	27	83 Virginis	J	34.9	37.4	40.0	45.1	47.9	50.4	58.0	0.5	3.0	5.8	13. 38. 50.31			50.57				13. 38. 55.38	- 2.40
	28	τ Boötis	J	1.2	4.0	6.4	11.7	14.2	16.9	24.8	27.2	29.7	32.5	13. 42. 16.87			16.98	21.74	4.76		.....	
	29	υ Boötis	J	9.6	12.4	15.0	20.1	22.9	25.4	33.1	35.6	38.1	40.8	13. 44. 25.31			25.42				13. 44. 30.23	- 2.56
	30	ε Cassiopeia S.P.	J	...	...	...	31.0	47.3	52.6	58.7	...	...	...	13. 46. 47.38			48.01				1. 46. 52.82	+ 1.99
	31	Piazzini I. 194 S.P.	J	...	5.0	13.2	21.2	...	54.7	2.9	19.5	27.9	...	13. 49. 46.28			47.21				1. 49. 52.02	+ 3.65
	32	11 Boötis	J	8.5	11.3	14.1	19.7	22.6	25.5	33.6	36.5	39.1	42.1	13. 56. 25.31			25.36				13. 56. 30.17	- 2.70
	33	94 Virginis	J	29.6	32.2	34.6	39.5	42.1	44.6	52.1	54.6	57.1	59.7	14. 0. 44.62			44.84	49.62	4.78		.....	
	34	Groombridge 2082	J	2.5	7.5	12.3	22.1	27.2	32.0	47.0	51.9	56.5	1.8	14. 5. 32.10			31.88				14. 5. 36.69	- 3.93
	35	14 Boötis	J	47.3	49.8	52.5	...	...	2.6	...	12.8	15.2	18.0	14. 9. 2.61			2.73				14. 9. 7.54	- 2.47
	36	Arcturus	J	36.8	39.5	42.2	47.4	50.1	52.6	0.6	3.1	5.9	8.4	14. 10. 52.67			52.76	57.54	4.78		.....	
	37	20 Boötis	J	32.0	34.4	37.0	42.1	44.9	47.4	55.2	57.6	0.2	3.0	14. 14. 47.39			47.50				14. 14. 52.31	- 2.48
	38	υ Virginis	J	...	22.0	24.5	29.4	31.9	34.3	41.7	44.1	46.5	...	14. 16. 34.32			34.51				14. 16. 39.32	- 2.37
	39	Bradley 332 S.P.	J	...	...	...	...	...	28.7	35.0	47.9	54.0	0.1	14. 20. 22.39			23.11				2. 20. 27.92	+ 2.08
	40	σ Boötis	J	49.6	52.3	55.3	1.1	4.0	6.9	15.5	18.2	21.1	24.1	14. 30. 6.82			6.86				14. 30. 11.67	- 2.60
	41	Bradley 353 S.P.	J	...	...	...	...	7.5	15.1	22.8	...	45.6	53.8	14. 32. 7.49			8.34				2. 32. 13.15	+ 2.59
	42	31 Boötis	J	14.6	17.1	19.6	24.6	27.1	29.8	37.1	39.6	42.1	44.7	14. 36. 29.64			29.79				14. 36. 34.60	- 2.36
	43	Lalande 26918	J	...	...	...	4.1	6.8	9.6	17.1	19.7	22.1	24.8	14. 41. 9.40			9.52				14. 41. 14.33	- 2.38
	44	Groombridge 2157	J	...	...	52.1	0.0	4.1	8.1	20.2	24.1	...	...	14. 46. 8.12			8.01				14. 46. 12.82	- 3.07
	45	ξ Librae	J	49.5	52.0	54.5	59.5	2.0	4.7	12.0	14.6	17.2	19.9	14. 51. 4.60			4.83	9.70	4.87		.....	
	46	ξ Librae (E&E)	J	52.0	7.1	...	...	...	7.6	22.5	...	...	...	14. 51. 4.41			4.64	9.70	5.06		.....	
	47	W.B.(2) XIV. 1142	J	...	...	...	7.6	10.5	13.3	21.4	24.2	26.9	29.9	14. 54. 13.26			13.33				14. 54. 18.14	- 2.41
	48	ω Boötis	J	14.1	16.9	19.7	25.1	28.0	30.6	38.9	41.7	44.2	47.2	14. 57. 30.65			30.72				14. 57. 35.53	- 2.40
	49	ψ Boötis	J	40.1	42.9	45.7	51.1	54.0	57.0	5.1	7.9	10.7	13.6	14. 59. 56.82			56.87	1.75	4.88		.....	
	50	ψ Boötis (E&E)	J	39.4	56.3	...	...	...	3.0	19.7	...	...	...	14. 59. 56.71			56.76	1.75	4.99		.....	
	51	Saturn 1 L.	J	43.1	45.8	48.3	53.4	56.0	58.6	6.0	8.8	11.4	14.0	15. 5. 58.55								
	52	Saturn 2 L.	J	44.2	46.8	49.5	54.5	57.2	59.8	7.4	10.1	12.5	15.2	15. 5. 59.73			59.39				15. 6. 4.19	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 46 and 50, + 27^s.10 and + 27^s.10.
Correction for passage of Semidiameter, No. 24, — 71^s.10.

14, 15. Very diffused and tremulous.

20. Observed over wire T with the transit-micrometer set to readings 36^s.680, 36^s.548, 36^s.429, 35^s.948, 35^s.810, 35^s.185, 34^s.964, 34^s.850, 34^s.754, 34^s.400.

21. Cloudy.

25. Observed over wire T with the transit-micrometer set to readings 35^s.470, 35^s.431, 35^s.401, 35^s.338, 35^s.191, 35^s.130, 35^s.042, 34^s.840, 34^s.807, 34^s.770.

25, 35, 36. Faint; cloudy.

30. Very tremulous.

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). (Azimuth).	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
			s	s	s	s	s	s	s	s	s	s								
Mar. 30	1	⊙ 1 L.	AC	25.5	28.1	30.6	35.5	38.1	40.6	48.0	50.5	52.9	55.4	0.36.40.53	+ 0.63	45.20		4.73	0.37.49.93	
	2	⊙ 2 L.	AC	34.6	37.0	39.5	44.2	47.1	49.5	56.9	59.3	1.9	4.5	0.38.49.46	(- 1.12)			[- 0.04]		
	3	Polaris	AC	52.5	53.3	0.3	8.0	15.6	45.5	51.0	56.2	19.5	24.8	1.19.46.26	[+ 4.38]	37.31	41.47	4.16	1.19.42.04	+ 72.38
	4	β Arietis	AC	32.8	35.5	38.0	43.3	46.0	48.5	56.5	59.1	1.7	4.4	1.48.48.59		48.72	53.40	4.68	1.48.53.45	+ 0.16
	5	Aldebaran	AC	37.4	40.0	42.6	47.7	50.2	52.8	0.6	3.1	5.6	8.2	4.29.52.83		52.98	57.66	4.68	4.29.57.70	- 0.57
	6	λ Ursæ Min. S.P.	AC	34.2	40.4	46.1	53.5	18.5	24.9	32.9	40.7	...	...	7.25.50.41		1.47			19.26.6.19	+ 50.60
	7	α Geminorum ...	AC	37.1	40.0	...	...	...	54.5	...	...	9.2	12.1	7.27.54.59		54.67			7.27.59.39	- 1.93
	8	Castor	AC	...	...	43.3	49.1	52.0	...	4.0	6.7	...	...	7.27.55.03		55.11	59.80	4.69	7.27.59.83	- 1.93
	9	Procyon	AC	33.2	35.8	38.1	43.1	45.6	48.1	55.7	58.1	0.5	3.1	7.33.48.14		48.34	53.09	4.75	7.33.53.06	- 1.54
	10	Pollux	AC	37.5	40.1	43.0	48.6	51.4	54.1	2.6	5.5	8.2	11.1	7.38.54.22		54.32	59.06	4.74	7.38.59.04	- 1.92
	11	Groombridge 119	AC	50.5	57.1	3.8	13.2	44.4	52.6	59.8	10.3	...	...	7.54.46.92		36.30			7.54.41.02	- 61.35
	12	μ ² Cancri	AC	19.9	22.5	25.1	30.4	33.1	35.8	43.8	46.3	48.9	51.7	8.1.35.76		35.90			8.1.40.62	- 1.97
	13	Jupiter 1 L.	AC	26.8	...	32.1	...	...	42.6	...	53.3	...	58.6	8.5.42.68						
	14	Jupiter 2 L.	AC	29.7	...	35.0	...	...	45.6	...	56.2	...	1.6	8.5.45.64		44.30			8.5.49.02	
	15	β Cancri	EB	34.5	37.0	39.4	44.4	47.0	49.6	57.1	59.5	2.0	4.6	8.10.49.52		49.71	54.28	4.57	.....	
	16	δ ¹ Cancri	EB	6.1	8.8	11.4	16.5	19.2	21.9	29.6	32.2	34.8	37.5	8.17.21.81		21.96	26.51	4.55	.....	
	17	κ Cancri	DE	49.0	51.5	54.0	59.1	1.6	4.1	11.8	14.2	16.7	19.4	9.2.4.15		4.32	8.96	4.64	.....	
	18	γ Draconis S.P.	AC	...	...	...	...	24.0	32.5	41.4	58.3	7.0	15.7	9.51.24.13		24.96		4.73	21.51.29.67	+ 4.44
	19	Regulus	R. AC	32.1	34.7	37.3	42.2	44.8	47.5	...	...	...	...	10.2.47.38		47.67	52.36	4.69	10.2.52.38	- 2.36
	20	γ ¹ Leonis	AC	56.2	58.9	...	...	...	12.1	...	...	25.1	28.0	10.14.12.07		12.21	16.90	4.69	10.14.16.92	- 2.56
	21	γ ² Leonis	AC	...	...	1.8	7.0	9.7	...	20.4	22.9	...	...	10.14.12.37		12.51			10.14.17.22	- 2.56
	22	ρ Leonis	DE	2.6	5.1	7.7	12.7	15.3	17.8	25.3	27.8	30.1	32.9	10.27.17.74		17.92	22.49	4.57	.....	
	23	56 Leonis	R. AC	20.1	22.4	25.0	29.9	32.5	34.9	...	...	...	...	10.50.34.95		35.15		4.73	10.50.39.86	- 2.42
	24	Groomb. 3964 S.P.	AC	30.0	34.9	39.7	44.5	59.2	4.0	8.9	18.5	23.2	28.2	10.57.59.09		59.59			22.58.4.30	+ 2.12
	25	Groomb. 3986 S.P.	AC	2.6	6.9	10.8	14.9	27.0	31.1	35.1	43.1	47.2	51.3	11.2.26.98		27.40			23.2.32.11	+ 1.50
	26	2 Cassiopeiae S.P.	AC	...	...	...	...	...	...	...	38.6	6.9	35.5	11.5.9.90		10.39			23.5.15.10	+ 2.08
	27	Groomb. 4044 S.P.	AC	20.0	24.9	29.4	33.8	48.0	52.4	57.1	6.3	10.9	15.6	11.15.47.82		48.30			23.15.53.01	+ 1.99
	28	Groomb. 4055 S.P.	AC	56.8	1.1	5.2	9.3	22.4	26.6	30.9	39.6	43.8	47.9	11.19.22.34		22.79			23.19.27.50	+ 1.70
	29	Groomb. 4112 S.P.	AC	...	...	51.6	56.2	10.2	14.9	19.7	29.2	...	...	11.34.10.28		10.77			23.34.15.48	+ 2.04
	30	Lalande F. 4555 S.P.	AC	...	...	22.0	36.9	23.6	38.7	54.5	25.1	...	...	11.38.23.41		24.80			23.38.29.51	+ 10.02
	31	Lacaille 4913	AC	6.0	8.9	11.6	17.2	20.3	23.1	31.7	34.6	37.3	40.2	11.46.23.10		23.47			11.46.28.18	- 2.28
	32	3 Comae	AC	55.9	58.6	1.1	6.1	8.9	11.3	19.1	21.7	24.2	26.9	12.5.11.39		11.53			12.5.16.24	- 2.70
	33	6 Comae	R. AC	25.8	28.2	31.0	36.0	38.5	41.1	48.7	51.1	53.6	56.3	12.10.41.04		41.32			12.10.46.03	- 2.67
	34	Bradley 1672	AC	16.5	36.9	...	...	...	...	...	...	...	...	12.15.26.87		20.46			12.15.25.17	- 60.40
	35	δ Virginis	AC	4.5	7.1	9.6	14.5	17.0	19.4	26.8	29.3	31.7	34.4	12.50.19.44		19.64	24.35	4.71	12.50.24.35	- 2.51
	36	37 Comae	AC	58.8	1.4	4.5	10.1	13.0	16.0	...	...	...	...	12.55.16.00		16.09			12.55.20.80	- 2.96
	37	66 Virginis	AC	50.8	53.2	55.9	0.9	3.5	...	...	...	...	...	13.19.5.80		6.04			13.19.10.75	- 2.45
	38	Spica	AC	...	27.7	30.1	35.1	37.6	40.1	47.8	50.1	52.6	...	13.19.40.16		40.42	45.20	4.78	13.19.45.13	- 2.43
	39	Polaris S.P.	AC	58.1	5.4	12.2	20.0	51.3	59.1	7.5	17.4	...	...	13.19.26.10		35.42	41.47	6.05	1.19.40.13	+ 72.38
	40	B. F. 1862	AC	1.4	...	...	...	...	4.1	6.8	23.2	39.5	...	13.27.50.49		50.61			13.27.55.32	- 2.75
	41	τ Boötis	AC	...	4.0	6.4	11.6	14.3	16.9	24.7	27.4	29.9	...	13.42.16.92		17.06	21.76	4.70	13.42.21.77	- 2.60
	42	τ Boötis	(E&E) AC	2.7	18.2	33.7	...	5.0	20.4	36.0	...	...	...	13.42.16.81		16.95	21.76	4.81	.....	
	43	ε Cassiopeiae S.P.	AC	14.4	20.0	25.3	30.8	47.3	52.8	58.7	9.4	14.6	20.1	13.46.47.32		47.88			1.46.52.59	+ 1.99
	44	η Boötis	AC	...	...	...	...	39.1	41.6	49.5	52.0	54.5	57.3	13.49.41.60		41.73	46.54	4.81	13.49.46.44	- 2.60
	45	τ Virginis	AC	3.9	6.3	8.8	13.7	16.2	18.7	26.0	28.5	31.0	33.6	13.56.18.68		18.89	23.57	4.68	13.56.23.60	- 2.43
	46	Radcliffe 3149 ...	AC	42.3	51.8	1.4	21.1	30.5	40.1	9.5	19.2	28.6	38.8	14.4.40.37		39.80			14.4.44.51	- 6.68
	47	κ Virginis	AC	...	...	8.2	13.1	15.7	18.2	25.8	28.2	...	...	14.7.18.21		18.47	23.17	4.70	14.7.23.18	- 2.39
	48	δ 2 L.	AC	1.9	4.6	7.2	12.6	15.3	18.0	26.1	28.9	31.6	34.2	14.13.18.05		18.35			14.12.10.32	
Mar. 31	49	Aldebaran	H	37.5	40.1	42.7	47.8	50.4	53.0	0.7	3.3	6.0	8.5	4.29.53.01	(- 1.56)	53.13	57.65	4.52	.....	
	50	Rigel	H	13.1	15.8	18.2	23.2	25.8	28.2	35.7	38.2	40.6	43.4	5.9.28.23	[+ 4.22]	28.46	32.98	4.52	.....	
	51	δ Ursæ Min. S.P.	H	58.8	8.2	13.8	22.2	46.0	59.6	6.5	23.2	29.3	37.4	6.5.38.86		42.63	46.74	4.11	.....	
	52	μ Geminorum ...	H	20.7	23.4	26.0	31.4	34.1	36.8	44.8	47.5	50.1	52.9	6.16.36.78		36.88	41.36	4.48	.....	
	53	λ Ursæ Min. S.P.	H	9.3	16.0	24.1	49.5	56.5	6.7	25.4	34.5	43.1	0.0	7.25.51.96		4.10	10.40	6.30	.....	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 42, + 27.48.
Correction for passage of Semidiameter, No. 48, - 72.75.

3. Observed over wire O with the transit-micrometer set to readings 35° 35.4, 36° 90.8, 36° 97.6, 37° 06.2, 37° 12.8, 37° 38.1, 37° 44.0, 37° 48.3, 37° 67.5, 37° 73.4.
6. Observed over wire Q with the transit-micrometer set to readings 35° 79.7, 35° 75.2, 35° 71.7, 35° 66.0, 35° 50.2, 35° 45.0, 35° 39.0, 35° 33.0.
11. Observed over wire S with the transit-micrometer set to readings 35° 28.9, 35° 34.9, 35° 39.4, 35° 45.8, 35° 70.1, 35° 74.9, 35° 79.9, 35° 87.6.
14. A correction of + 0.02, for defect of illumination, has been applied in forming the concluded transit.
20. Observed over wires O, N and M.
34. Cloudy. Observed over wire U with the transit-micrometer set to readings 35° 36.9, 35° 66.1.
39. Observed over wire X with the transit-micrometer set to readings 36° 66.5, 36° 60.4, 36° 55.4, 36° 49.9, 36° 20.6, 36° 14.5, 36° 06.0, 35° 98.1.
40. Observed over wires M, W, X, Y and Z.
48. Correction to R.A. on true meridian, + 0.01.
51. Observed over wire O with the transit-micrometer set to readings 33° 94.7, 33° 74.1, 33° 56.3, 33° 39.2, 32° 79.3, 32° 48.9, 32° 30.0, 31° 91.8, 31° 78.2, 31° 56.9.
53. Observed over wire R with the transit-micrometer set to readings 34° 89.1, 34° 84.4, 34° 76.0, 34° 59.0, 34° 53.0, 34° 46.8, 34° 34.0, 34° 26.0, 34° 20.3, 34° 08.0.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at of Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Mar. 31	1	Pollux	H	37.6	40.5	43.2	48.9	51.7	54.5	3.0	5.8	8.5	11.4	7. 38. 54.52	+ 0.63	54.59	59.04	4.45	4.45	.....		
	2	6 Cancri.....	H	48.6	51.4	54.1	59.9	2.7	5.5	13.8	16.6	19.4	22.2	7. 57. 5.43	(- 1.56)	5.50	9.88	4.38	0.00	.....		
	3	Jupiter 1 L.	H	32.0	...	37.3	...	...	48.0	...	58.5	...	4.0	8. 5. 47.96	[+ 4.22]	} 49.46				8. 5. 53.91		
	4	Jupiter 2 L.	H	34.9	...	40.1	...	...	50.7	...	1.4	...	6.6	8. 5. 50.76								
	5	Piazzi VIII. 42...	H	...	...	...	...	12.0	14.6	22.7	25.1	28.0	...	8. 14. 14.67		14.77				8. 14. 19.22	- 2.01	
	6	ζ Hydæ	H	36.0	38.6	41.1	46.0	48.5	51.1	58.6	1.1	3.6	6.1	8. 49. 51.08		51.25				8. 49. 55.70	- 1.95	
	7	κ Ursæ Majoris...	H	...	12.0	15.5	22.8	26.6	30.2	41.3	45.0	48.7	...	8. 56. 30.29		30.22				8. 56. 34.67	- 3.06	
	8	α Hydæ	H	...	13.4	16.0	20.9	23.4	26.0	33.4	35.7	38.2	...	9. 22. 25.90		26.13	30.47	4.34		.....		
	9	α Hydæ...(E&E)	H	12.5	27.3	42.5	...	12.4	27.3	42.6	...	...	...	9. 22. 25.32		25.55	30.47	4.92		.....		
	10	13 Leonis	H	21.1	23.9	26.5	32.0	34.9	37.6	46.0	48.6	51.4	54.2	9. 35. 37.63		37.70				9. 35. 42.15	- 2.54	
Apr. 1	11	Groombridge 1119	HA	8.4	42.4	56.6	11.7	22.4	32.8	43.1	55.1	18.8	...	7. 54. 48.12	(- 2.06)	35.12			4.71	7. 54. 39.82	- 59.06	
	12	Jupiter 1 L.	HA	37.6	40.1	42.9	...	...	...	...	...	...	...	8. 5. 53.45	[+ 4.22]	} 54.91			[- 0.02]	8. 5. 59.61		
	13	Jupiter 2 L.	HA	...	...	...	50.9	53.5	56.1	...	6.8	9.4	12.2	8. 5. 56.22								
	14	κ Cancri.....	HA	49.0	51.5	54.0	59.2	1.6	4.1	11.7	14.2	16.6	19.4	9. 2. 4.14		4.25	8.93	4.68		.....		
	15	ζ Hydæ	HA	15.0	17.5	20.0	24.9	27.3	29.9	37.4	39.7	42.1	44.7	9. 34. 29.86		30.03				9. 34. 34.73	- 2.04	
	16	Groombridge 358 S.P.	HA	...	...	...	...	47.1	...	55.2	3.4	7.0	11.1	9. 42. 47.19		47.61				21. 42. 52.31	+ 1.10	
	17	μ Leonis	HA	32.3	35.0	37.8	43.2	46.0	48.9	57.1	59.8	2.6	5.5	9. 46. 48.83		48.87	53.52	4.65		.....		
	18	Regulus	AC	...	34.8	37.4	42.3	45.1	47.5	55.1	57.6	0.1	...	10. 2. 47.51		47.62	52.34	4.72	4.72	.....		
	19	Regulus...(E&E)	AC	33.7	48.9	3.9	...	34.3	49.6	4.8	...	...	...	10. 2. 47.40		47.51	52.34	4.83		.....		
	20	35 Leonis	HA	28.4	31.1	33.7	...	...	...	...	55.5	58.0	1.1	10. 10. 44.64		44.69			4.71	10. 10. 49.39	- 2.61	
	21	ζ Leonis	HA	36.1	38.5	41.5	...	...	...	...	3.1	5.8	8.7	10. 10. 52.29		52.34				10. 10. 57.04	- 2.61	
	22	γ ¹ Leonis	AC	56.2	59.0	1.6	6.8	9.5	12.1	20.0	22.6	25.3	28.0	10. 14. 12.12		12.19	16.88	4.69	4.72	.....		
	23	ρ Leonis.....	HA	2.6	5.1	7.5	12.4	15.1	17.7	25.4	27.7	30.2	32.6	10. 27. 17.64		17.76	22.48	4.72	4.71	.....		
	24	30 Cephei S.P....	HA	17.7	22.6	28.1	33.6	50.0	55.5	1.1	12.0	17.3	22.6	10. 34. 49.97		50.57				22. 34. 55.27	+ 2.45	
	25	δ Leonis	HA	54.0	56.4	59.0	4.0	6.4	8.9	16.4	18.8	21.2	23.8	10. 55. 8.90		9.05	13.73	4.68		.....		
	26	W. B. (2) X. 1188	HA	55.5	58.0	0.7	5.9	8.5	11.1	19.0	21.6	24.2	26.7	11. 1. 11.13		11.21				11. 1. 15.91	- 2.63	
	27	92 Leonis.....	HA	4.6	7.2	10.0	15.1	18.0	20.5	28.6	31.2	33.8	36.9	11. 35. 20.60		20.67				11. 35. 25.37	- 2.77	
	28	γ Ursæ Majoris...	HA	...	...	...	...	34.1	38.1	42.2	46.6	12.0	37.4	11. 48. 21.27		21.08				11. 48. 25.78	- 4.14	
	29	3 Comæ	R.	55.9	58.4	1.0	6.1	8.9	11.4	19.1	21.6	24.2	26.9	12. 5. 11.36		11.68				12. 5. 16.38	- 2.70	
	30	6 Comæ	HA	25.8	28.3	30.9	36.0	38.5	41.1	48.9	51.5	54.0	56.6	12. 10. 41.17		41.26				12. 10. 45.96	- 2.67	
	31	Bradley 1672....	HA	17.4	56.2	11.6	26.5	39.6	52.5	8.1	27.9	41.3	0.5	12. 15. 25.12		17.26				12. 15. 21.96	- 59.99	
	32	35 Virginis	HA	16.4	18.9	21.4	26.1	28.8	31.4	...	...	43.6	46.2	12. 42. 31.28		31.43	36.17	4.74		.....		
	33	ε Virginis	HA	42.5	45.1	47.6	...	...	57.6	...	8.0	10.4	12.9	12. 56. 57.74		57.85	2.58	4.73		.....		
	34	ε Virginis...(E&E)	HA	43.9	59.2	...	...	...	59.2	14.7	...	...	...	12. 56. 57.49		57.60	2.58	4.98		.....		
	35	θ Virginis	HA	16.5	18.9	21.4	26.2	28.9	31.4	38.8	41.3	43.9	46.2	13. 4. 31.36		31.55	36.28	4.73		.....		
	36	Polaris S.P.	HA	8.3	34.7	4.9	18.0	34.5	50.9	6.8	20.0	34.1	41.3	13. 19. 28.48		39.71	41.53	1.82		.....		
	37	τ Boötis	HA	1.2	3.9	6.5	11.6	14.4	16.9	24.7	27.4	30.0	32.6	13. 42. 16.93		17.01	21.78	4.77		.....		
	38	Bradley 1843....	HA	38.9	41.3	43.6	48.8	51.2	53.8	1.1	3.5	6.0	8.8	14. 8. 53.71		53.91				14. 8. 58.61	- 2.42	
	39	W. B. (2) XIV. 413	HA	3.5	6.1	8.9	14.2	16.9	19.8	...	...	...	...	14. 21. 19.46		19.53				14. 21. 24.23	- 2.54	
	40	f Boötis	HA	...	...	...	29.6	32.3	34.9	42.7	...	...	...	14. 21. 34.89		34.96	39.62	4.66		.....		
	41	γ Boötis	HA	32.3	35.5	38.6	45.2	48.2	51.8	1.1	4.1	7.3	10.8	14. 27. 51.50		51.46				14. 27. 56.16	- 2.83	
	42	σ Boötis	HA	...	52.6	55.5	1.2	4.1	6.9	15.5	18.3	21.1	...	14. 30. 6.92		6.94				14. 30. 11.64	- 2.65	
	43	ζ Boötis	HA	53.1	55.6	58.2	3.3	5.9	8.5	16.2	18.6	21.1	23.9	14. 36. 8.45		8.55				14. 36. 13.25	- 2.44	
	44	ε ² Boötis.....	HA	...	...	...	...	32.9	35.4	38.3	41.1	58.0	14.7	14. 40. 24.47		24.51	29.22	4.71		.....		
45	8 Libræ	HA	38.0	40.6	...	...	...	...	...	...	6.0	8.8	14. 44. 53.36		53.61				14. 44. 58.31	- 2.38		
46	α Libræ	HA	49.6	52.0	54.6	59.8	2.2	...	12.5	15.1	17.7	20.2	14. 45. 4.87		5.12	9.79	4.67		.....			
47	ξ ² Libræ	HA	49.7	52.2	54.7	59.9	2.2	4.7	12.5	14.9	17.4	20.1	14. 51. 4.84		5.06	9.76	4.70		.....			
48	δ Ophiuchi.....	D	36.0	38.6	41.1	46.0	48.5	50.9	58.5	0.9	3.3	6.0	16. 8. 50.99	(- 1.32)	51.21	55.71	4.50	4.56	.....			
49	D 2 L.	D	58.0	0.9	3.9	9.6	12.3	15.5	24.0	27.0	29.8	32.7	16. 19. 15.38		15.72				16. 18. 5.03			
50	Piazzi XVI. 93...	D	40.4	43.3	46.0	51.5	54.3	57.1	5.4	8.1	10.7	13.6	16. 24. 57.05		57.39				16. 25. 1.94	- 2.24		
51	Piazzi XVI. 159..	D	10.5	13.0	15.8	21.5	24.5	27.2	35.5	38.4	41.0	43.9	16. 38. 27.14		27.48				16. 38. 32.03	- 2.22		
52	Lalande 31226 ...	D	34.7	37.5	40.2	46.1	48.5	51.5	59.7	2.5	5.4	8.2	17. 5. 51.44		51.78				17. 5. 56.33	- 2.11		
53	θ Ophiuchi.....	D	18.0	20.7	23.5	28.9	31.6	34.3	42.6	45.2	47.9	50.7	17. 15. 34.35		34.68	39.27	4.59		.....			

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 9, 19, and 34, + 27^s.89; + 28^s.20; and + 28^s.23.
Correction for passage of Semidiameter, No. 49, - 75^s.25.

4. A correction of + 0^s.01, for defect of illumination, has been applied in forming the concluded transit.
11. Observed over wire T with the transit-micrometer set to readings 35^s.310, 35^s.549, 35^s.668, 35^s.769, 35^s.865, 35^s.935, 36^s.006, 36^s.080, 36^s.275.
13. A correction of + 0^s.02, for defect of illumination, has been applied in forming the concluded transit.
16. Very faint.
28, 44. Observed over wires U, V, W, X, Y and Z.
31. Observed over wire W with the transit-micrometer set to readings 34^s.926, 35^s.391, 35^s.599, 35^s.748, 35^s.926, 36^s.075, 36^s.264, 36^s.508, 36^s.680, 36^s.874.
36. Observed over wire Q with the transit-micrometer set to readings 36^s.072, 35^s.878, 35^s.625, 35^s.476, 35^s.338, 35^s.180, 35^s.045, 34^s.943, 34^s.829, 34^s.756.
49. Correction to R.A. on true meridian, + 0^s.01.

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[51]

MO.	D.	H.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1895.0.			
						I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
																									h	m	s
1893	AM.	1.5				s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s						
Apr. 1	1			ε Pegasi	W	45.1	47.6	50.0	55.0	57.6	0.1	7.7	10.1	12.6	15.2	21. 39. 0.11	+ 0.63	0.27	4.92	4.65	4.66	21. 39. 4.90	- 0.30				
	2			η Pegasi	W	45.5	...	51.1	56.7	...	...	11.1	13.7	17.0	...	22. 38. 2.54	(- 1.32)	2.61	...	...	...	22. 38. 7.24	+ 0.36				
	3			Venus 2 L.....	W	...	...	...	...	...	...	...	...	27.4	42.1	23. 15. 57.42	[+ 4.22]	57.65	...	...	...	23. 16. 1.86	...				
Apr. 2	4			ε Hydræ.....	W	28.2	43.3	...	...	...	...	20.8	25.7	43.1	58.0	8. 41. 13.22	...	13.40	17.94	4.54	4.63	8. 41. 18.02	- 1.88				
	5			μ Leonis.....	W	...	...	...	...	...	...	57.3	2.5	21.9	38.4	9. 46. 48.85	...	48.94	53.50	4.56	...	9. 46. 53.56	- 2.56				
	6			Regulus	W	...	...	...	...	...	...	...	...	18.0	33.1	10. 2. 47.66	...	47.81	52.33	4.52	...	10. 2. 52.43	- 2.33				
	7			ζ Leonis.....	W	19.8	...	...	...	...	...	...	0.5	24.7	40.6	10. 10. 52.23	...	52.33	...	...	...	10. 10. 56.95	- 2.60				
	8			Piazzi X. 257	W	...	...	...	...	...	...	41.5	49.8	19.8	45.4	11. 5. 28.54	...	28.43	...	...	...	11. 5. 33.05	- 4.13				
	9			δ Leonis.....	W	...	...	...	...	...	...	40.5	45.8	4.2	20.1	11. 8. 32.54	...	32.66	37.37	4.71	...	11. 8. 37.28	- 2.70				
	10			Bradley 3147 S.P.	W	40.7	48.9	57.6	6.5	14.6	24.0	...	...	...	...	11. 27. 10.15	...	13.85	...	...	...	23. 27. 18.47	+ 30.19				
	11			θ Crateris.....	W	36.6	51.8	...	...	...	...	29.2	34.1	51.7	6.6	11. 31. 21.68	...	21.93	...	...	...	11. 31. 26.55	- 2.32				
	12			β Leonis.....	W	57.1	12.2	...	...	...	...	50.8	56.0	13.9	29.1	11. 43. 43.12	...	43.26	47.88	4.62	...	11. 43. 47.88	- 2.64				
	13			β Leonis ... (E&E)	W	28.5	43.7	...	...	...	...	45.2	0.5	...	...	11. 43. 43.06	...	43.20	47.88	4.68	...	...	...				
	14			Lacaille 4913 ...	W	...	...	...	...	...	...	...	...	57.5	14.6	11. 46. 23.24	...	23.60	...	...	...	11. 46. 28.22	- 2.28				
	15			3 Comæ.....	W	24.9	40.5	...	...	...	...	19.3	24.2	42.5	58.0	12. 5. 11.46	...	11.58	...	...	...	12. 5. 16.19	- 2.70				
	16			Bradley 1672.....	W	32.9	40.7	47.8	56.0	6.1	22.0	30.1	38.8	46.2	54.2	12. 15. 25.20	...	18.66	...	...	...	12. 15. 23.27	- 59.78				
	17			35 Virginis.....	W	46.8	1.7	...	...	...	...	38.7	43.6	0.9	15.9	12. 42. 31.31	...	31.50	36.18	4.68	...	12. 42. 36.11	- 2.54				
	18			ψ Virginis.....	W	...	...	...	...	...	...	1.7	6.5	24.1	39.2	12. 48. 54.17	...	54.42	...	...	...	12. 48. 59.03	- 2.45				
	19			g Virginis.....	W	39.3	54.2	...	...	...	...	31.9	36.7	54.3	9.5	13. 2. 24.32	...	24.57	...	...	...	13. 2. 29.18	- 2.45				
	20			θ Virginis.....	W	46.8	1.8	...	...	...	...	...	38.9	43.8	16.0	13. 4. 31.45	...	31.67	36.28	4.61	...	13. 4. 36.28	- 2.46				
	21			Spica	W	10.1	...	...	...	...	...	47.8	52.8	10.5	25.5	13. 19. 40.30	...	40.55	45.23	4.68	...	13. 19. 45.16	- 2.46				
	22			Polaris S.P.	W	29.2	33.9	39.2	45.2	8.7	16.7	22.8	28.1	57.6	16.2	13. 19. 26.96	...	36.44	41.59	5.15	...	...	...				
	23			α Herculis.....	AC	...	...	...	...	...	...	58.9	3.9	21.8	37.1	17. 9. 51.23	...	51.37	56.00	4.63	4.65	...	...				
Apr. 3	24			δ Ursæ Minoris...	RC	2.1	12.2	20.6	38.9	47.6	56.9	38.3	51.9	9.5	16.7	18. 5. 47.51	...	44.27	47.86	3.59	4.57	...	...				
	25			η Serpentis.....	RC	8.0	22.6	...	...	...	...	...	...	22.0	36.8	18. 15. 52.36	...	52.58	57.17	4.59	[+ 0.02]	...	...				
	26			δ 2 L.....	RC	39.1	...	...	...	...	...	...	28.4	48.7	6.1	18. 26. 13.95	...	14.29	...	...	...	18. 25. 5.64	...				
	27			α Lyræ.....	RC	...	...	...	...	...	...	31.0	37.2	59.3	18.1	18. 33. 21.39	...	21.41	26.00	4.59	...	...	...				
Apr. 9	28			γ Geminorum ...	B	23.2	25.7	28.3	33.4	36.0	38.6	46.2	48.8	51.4	54.0	6. 31. 38.59	- 0.26	38.53	43.36	4.83	4.81	6. 31. 43.35	- 1.16				
	29			ε Geminorum ...	B	12.1	14.9	17.7	23.1	25.9	28.6	36.8	39.5	42.2	44.9	6. 37. 28.60	(- 4.29)	28.46	...	...	[+ 0.02]	6. 37. 33.28	- 1.29				
	30			Sirius.....	B	14.2	16.8	19.5	24.5	27.1	29.8	37.5	40.0	42.6	45.2	6. 40. 29.75	[+ 5.16]	29.95	...	...	...	6. 40. 34.77	- 0.81				
	31			ζ Geminorum ...	B	37.1	39.8	42.4	47.7	50.3	53.1	0.9	3.5	6.1	8.9	6. 57. 53.01	+ 0.33	52.95	57.78	4.83	...	6. 57. 57.77	- 1.37				
	32			τ Geminorum ...	B	10.9	13.7	16.6	22.3	25.2	28.1	36.7	39.4	42.2	45.2	7. 4. 28.06	...	27.92	...	...	...	7. 4. 32.74	- 1.55				
	33			δ Geminorum ...	B	35.5	38.0	40.8	46.0	48.7	51.4	59.4	2.0	4.7	7.3	7. 13. 51.41	...	51.34	56.19	4.85	...	7. 13. 56.16	- 1.50				
	34			Castor.....	B	37.4	40.2	43.2	49.0	52.0	54.8	3.6	6.5	9.4	12.5	7. 27. 54.89	+ 0.81	54.76	59.62	4.86	...	7. 27. 59.58	- 1.75				
	35			Procyon.....	B	32.9	35.4	38.0	42.9	45.4	48.0	55.3	57.9	0.3	2.9	7. 33. 47.92	...	48.02	52.93	4.91	...	7. 33. 52.84	- 1.38				
	36			Pollux.....	B	37.2	40.0	43.0	48.4	51.3	54.1	2.4	5.3	8.1	10.9	7. 38. 54.10	...	54.01	58.88	4.87	...	7. 38. 58.83	- 1.74				
	37			1 Cancri.....	B	46.4	49.0	51.7	56.8	59.4	2.0	9.6	12.1	14.8	17.3	7. 51. 1.93	+ 1.00	1.96	...	...	...	7. 51. 6.78	- 1.65				
	38			12 Cancri.....	B	...	...	40.2	45.4	47.9	50.5	58.2	0.7	...	...	8. 2. 50.50	...	50.54	...	...	...	8. 2. 55.36	- 1.68				
	39			Jupiter 1 L.....	B	51.3	...	56.5	...	...	...	7.1	...	17.6	...	8. 7. 7.10	...	...	...	...	...	8. 7. 13.27	...				
	40			Jupiter 2 L.....	B	53.9	...	59.2	...	...	...	9.8	...	20.3	...	8. 7. 9.82	...	8.45	...	...	...	8. 10. 54.16	- 1.65				
	41			β Cancri.....	B	34.2	36.7	39.2	44.1	46.8	49.3	56.8	59.2	1.9	4.2	8. 10. 49.26	...	49.34	54.13	4.79	...	...	...				
	42			ο Leonis.....	AC	...	...	...	...	...	...	40.9	43.4	45.9	48.3	9. 35. 33.38	...	33.46	38.09	4.63	4.73†	...	...				
	43			α Leonis.....	AC	38.2	41.0	43.8	49.1	51.6	54.5	2.5	5.3	8.0	10.6	9. 39. 54.49	...	54.45	59.29	4.84	...	...	...				
	44			μ Leonis.....	B	32.1	34.9	37.7	43.1	46.0	48.7	57.0	59.7	2.6	5.3	9. 46. 48.74	...	48.68	53.42	4.74	4.81	9. 46. 53.50	- 2.48				
	45			Oeltz Arg. (N.) 10371	B	...	...	10.9	19.3	23.4	28.0	40.8	45.1	...	...	9. 50. 27.96	...	27.54	...	...	...	9. 50. 32.36	- 3.69				
	46			ν Hydræ.....	B	45.2	47.6	50.4	55.3	57.9	...	...	...	...	...	10. 0. 0.40	...	0.66	...	...	...	10. 0. 5.48	- 1.92				
	47			η Leonis.....	B	...	...	27.1	32.2	34.8	37.5	45.1	47.6	...	...	10. 1. 37.41	...	37.43	...	...	...	10. 1. 42.25	- 2.36				
	48			Regulus.....	B	32.2	34.6	37.3	42.2	44.9	47.5	55.1	57.4	0.1	2.5	10. 2. 47.40	...	47.46	52.27	4.81	...	10. 2. 52.28	- 2.27				
	49			ζ Cephei S.P.....	B	...	...	...	...	...	12.2	17.1	26.2	30.8	35.5	10. 7. 7.72	...	8.38	...	...	...	22. 7. 13.20	+ 1.42				
	50			ζ Leonis.....	B	36.0	38.6	41.5	46.8	...	...	...	...	...	...	10. 10. 52.22	...	52.18	...	...	...	10. 10. 57.00	- 2.54				
	51			μ Ursæ Majoris...	B	46.6	49.9	53.1	59.9	3.1	6.5	16.5	19.7	23.1	26.4	10. 16. 6.51	...	6.29	...	...	...	10. 16. 11.11	- 3.11				

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 13, + 28".57.
 Corrections for passage of Semidiameter, Nos. 3 and 26, - 0".42 and - 73".26.

April 24. 7h. Wires O, P, Q, R, S, T, V and X were found broken.
 April 24. 8h. Eye-end of Transit-circle removed by Messrs. Troughton & Simms for insertion of a new set of wires. Returned April 9d. 3h with complete new set of wires.
 3, 6, 14. Observed over wires Y and Z. 4, 11, 12, 15, 17, 19. Observed over wires M, N, U, W, Y and Z. 5. Very faint; cloudy.
 5, 8, 9, 18, 23, 27. Observed over wires U, W, Y and Z. 6, 38, 39, 40, 41, 42, 45, 46, 47, 50. Cloudy. 7. Observed over wires N, U, Y and Z.
 10. Observed over wire U with the transit-micrometer set to readings 31".900, 31".700, 31".500, 31".300, 31".100, 30".900.
 16. Observed over wire W with the transit-micrometer set to readings 35".100, 35".200, 35".300, 35".400, 35".500, 35".700, 35".800, 35".900, 36".000, 36".100.
 20. Observed over wires M, N, U, W and Z. 21. Observed over wires N, U, W, Y and Z.
 22. Observed over wire U with the transit-micrometer set to readings 34".700, 34".655, 34".598, 34".530, 34".332, 34".265, 34".205, 34".156, 33".895, 33".744.
 24. Observed over wire U with the transit-micrometer set to readings 34".382, 34".641, 34".857, 35".266, 35".461, 35".690, 36".682, 37".004, 37".416, 37".576.
 25. Observed over wires M, N, Y and Z. 26. Very faint; hazy. Observed over wires N, W, Y and Z. Correction to R.A. on true meridian, + 0".02.
 40. A correction of + 0".02, for defect of illumination, has been applied in forming the concluded transit.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1899		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.		M. M. M.			
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4, 5, 6, 7, 9, 11, 15, 16, 18, 19. Cloudy.

8. Observed over wire T with the transit-micrometer set to readings 37° 610, 37° 528, 37° 460, 37° 301, 37° 010, 34° 575, 33° 962, 33° 856, 33° 672, 33° 048.

20. Observed over wire T with the transit-micrometer set to readings 34° 600, 34° 800, 35° 000, 35° 200, 35° 400, 35° 800, 36° 000, 36° 200, 36° 400, 36° 600.

23, 24. Diffused.

38. Observed over wire T with the transit-micrometer set to readings 34° 975, 35° 061, 35° 200, 35° 246, 35° 314, 35° 394, 35° 449, 35° 521, 35° 574, 35° 643.

41. A correction of + 0.02, for defect of illumination, has been applied in forming the concluded transit.

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Red- uction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	e	s	s	s	s	h m s	s					
Apr. 10	1	ε Leonis	HF	...	...	44.0	49.2	52.0	54.6	2.9	5.5	...	...	9. 39. 54.73	+ 1.00	54.74	59.28	4.54	4.67	9. 39. 59.42	- 2.39	
	2	79 Draconis S.P. ...	HF	...	...	...	58.5	24.4	33.0	41.6	...	...	...	9. 51. 24.30	(- 3.44)	25.50			[+ 0.02]	21. 51. 30.18	+ 3.77	
	3	Groomb. 3654 S.P. ...	HF	...	...	4.2	9.6	25.4	30.5	36.0	46.2	...	...	9. 57. 25.27	[+ 5.16]	26.00				21. 57. 30.68	+ 1.74	
	4	15 Cephei S.P.	HF	...	...	4.4	9.3	23.8	28.5	33.6	43.1	...	...	10. 0. 23.73		24.39				22. 0. 29.07	+ 1.48	
	5	Piazzi XXI. 401 S.P. ...	HF	...	...	...	...	...	47.5	52.4	1.9	6.8	11.8	10. 0. 42.62		43.28				22. 0. 47.96	+ 1.49	
	6	24 Cephei S.P.	HF	51.6	59.9	7.6	15.7	...	...	...	...	...	...	10. 7. 39.12		40.24				22. 7. 44.92	+ 3.56	
	7	ε Cephei S.P.	HF	...	43.1	47.9	52.1	5.5	10.0	14.5	23.4	28.1	...	10. 11. 5.54		6.14				22. 11. 10.82	+ 1.30	
	8	Groomb. 3738 S.P. ...	HF	...	...	...	...	...	30.3	34.6	38.6	46.4	50.8	10. 14. 30.50		31.02				22. 14. 35.70	+ 1.01	
	9	34 Sextantis	HF	58.0	0.4	2.8	7.6	10.1	12.6	20.0	22.4	25.0	27.5	10. 37. 12.66		12.82	17.51	4.69		10. 37. 17.50	- 2.27	
	10	Oeltz. Arg. (N.) III 109	HF	18.4	25.9	38.2	48.0	55.7	2.8	24.8	32.1	39.5	46.9	10. 41. 2.80		2.02				10. 41. 6.70	- 6.09	
	11	ι Leonis	HF	...	...	34.9	40.0	42.5	45.1	52.5	55.1	...	...	10. 43. 45.04		45.16	49.84	4.68		10. 43. 49.84	- 2.40	
	12	δ Leonis	WB	16.5	19.2	22.0	27.2	29.9	32.5	40.3	43.1	45.9	48.3	11. 8. 32.52		32.57	37.32	4.75	4.81	.....	.....	
	13	β Leonis	HF	27.8	30.1	32.8	38.0	40.4	43.1	50.9	53.4	55.9	58.5	11. 43. 43.11		43.20	47.87	4.67	4.67	11. 43. 47.88	- 2.63	
	14	β Virginis	HF	59.4	1.8	4.2	9.1	11.8	14.2	21.7	24.0	26.6	29.1	11. 45. 14.21		14.39	19.12	4.73		11. 45. 19.07	- 2.48	
	15	B. D. + 76° No. 437	HF	...	...	47.5	7.4	17.3	27.4	58.0	7.5	...	...	11. 56. 27.62		26.46				11. 56. 31.14	- 8.27	
	16	B. D. + 7° No. 2515	HF	56.0	58.7	0.9	6.0	8.5	11.1	18.3	20.9	23.3	26.0	12. 2. 10.99		11.13				12. 2. 15.81	- 2.56	
	17	Groombridge 1858	HF	...	...	...	...	...	31.4	25.7	44.5	2.5	21.0	12. 6. 31.10		28.82				12. 6. 33.50	- 14.09	
	18	Lalande F. 2018 ..	HF	...	...	...	...	...	44.0	3.3	58.0	16.0	34.5	12. 7. 2.87		0.59				12. 7. 5.27	- 14.11	
	19	Bradley 1672	HF	9.5	21.1	31.6	40.6	50.0	59.1	8.0	17.5	26.4	34.5	12. 15. 28.52		17.79				12. 15. 22.47	- 58.55	
	20	γ Comæ	HF	26.7	29.4	32.2	37.9	40.6	43.6	52.0	54.9	57.6	0.6	12. 21. 43.58		43.57				12. 21. 48.25	- 2.96	
	21	ζ Corvi	WB	10.6	13.2	15.8	21.0	23.4	26.2	33.9	36.4	39.0	41.5	12. 24. 26.13		26.44	31.33	4.89	4.81	.....	.....	
	22	21 Virginis	HF	7.0	9.7	12.1	17.1	19.6	22.1	29.6	32.1	34.6	37.0	12. 28. 22.11		22.36			4.67	12. 28. 27.04	- 2.46	
	23	Oeltz. Arg. (N.) 563 S.P.	HF	...	8.9	16.0	22.5	...	52.9	0.2	14.4	22.1	...	12. 32. 45.21		46.25				0. 32. 50.93	+ 3.71	
	24	Oeltz. Arg. (N.) 565 S.P.	HF	...	...	34.6	41.5	...	...	32.9	40.6	48.0	...	12. 33. 3.58		4.62				0. 33. 9.30	+ 3.72	
	25	W. B. XII. 632 ..	HF	24.1	26.6	29.1	34.1	36.7	39.4	47.0	49.4	52.1	54.5	12. 39. 39.32		39.41				12. 39. 44.09	- 2.69	
	26	W. B. XII. 646 ..	HF	...	...	...	6.2	8.8	11.3	18.9	21.5	24.0	26.6	12. 40. 11.34		11.43				12. 40. 16.11	- 2.69	
	27	31 Comæ	HF	19.4	22.1	25.1	30.6	33.4	36.2	44.6	47.4	50.1	53.0	12. 46. 36.22		36.21	40.91	4.70		12. 46. 40.89	- 2.94	
	28	36 Comæ	HF	...	...	...	...	...	42.3	44.8	52.7	55.2	57.9	0.5	12. 53. 44.91		44.98			12. 53. 49.66	- 2.75	
	29	Bradley 117 S.P. ...	HF	...	...	11.5	24.0	3.4	16.5	30.0	55.9	...	...	13. 3. 3.42		5.24				1. 3. 9.92	+ 7.35	
	30	W. B. XII. 121 ..	HF	11.5	14.0	16.6	21.7	24.1	26.9	34.3	36.9	39.4	41.8	13. 10. 26.74		27.01				13. 10. 31.69	- 2.52	
	31	Spica	HF	25.3	27.9	30.2	35.2	37.9	40.2	47.9	50.2	52.7	55.2	13. 19. 40.29		40.56	45.30	4.74		13. 19. 45.24	- 2.53	
	32	Polaris S.P.	HF	50.5	7.3	15.7	25.6	33.7	43.1	52.3	1.1	10.5	19.1	13. 19. 20.34		35.53	41.42	5.89		.....	.....	
	33	ψ Boötis	HF	40.6	43.4	46.1	51.6	54.4	57.2	5.6	8.5	11.2	13.9	14. 59. 57.28		57.28	1.98	4.70		15. 0. 1.96	- 2.63	
	34	ψ Boötis ... (E&E)	HF	37.3	53.5	...	...	...	0.5	17.5	...	...	...	14. 59. 57.15		57.15	1.98	4.83		.....	.....	
	35	Saturn 1 L.	HF	1.8	4.2	6.9	12.0	14.5	17.1	24.6	27.2	29.9	32.2	15. 3. 17.06		17.98				15. 3. 22.66	.....	
	36	Saturn 2 L.	HF	2.9	5.6	8.1	13.2	15.7	18.2	26.2	28.4	31.1	33.5	15. 3. 18.31						.....	.....	
Apr. 11	37	Regulus	B	32.0	34.6	37.1	...	...	...	57.3	59.9	2.2	10. 2. 47.20	(- 3.02)	47.35	52.25	4.90	4.80	.....	.....		
	38	γ Leonis	B	56.1	59.0	1.5	6.6	9.4	12.0	20.0	22.3	25.1	27.8	10. 14. 12.01	[+ 5.39]	12.09	16.79	4.70	[0.00]	.....	.....	
	39	Bradley 3084 S.P. ...	W	...	...	...	38.7	50.9	55.2	59.9	...	...	...	11. 11. 51.14		51.68			4.75	23. 11. 56.43	+ 1.24	
	40	79 Leonis	W	24.6	27.1	29.6	34.4	36.9	39.5	46.9	49.3	51.9	54.2	11. 18. 39.46		39.67				11. 18. 44.42	- 2.38	
	41	Bradley 3147 S.P. ...	W	17.4	25.3	29.8	38.3	55.9	0.6	4.5	17.1	23.0	29.1	11. 27. 10.14		15.80				23. 27. 20.55	+ 28.68	
	42	Groomb. 4110 S.P. ...	W	...	...	...	...	19.2	24.0	28.6	38.0	42.6	47.6	11. 33. 19.30		19.94				23. 33. 24.69	+ 1.74	
	43	ξ Virginis	W	...	40.3	42.9	48.0	50.4	53.0	0.3	2.8	5.5	...	11. 39. 52.90		53.07				11. 39. 57.82	- 2.53	
	44	β Leonis	W	27.6	30.1	32.8	37.9	40.4	43.1	50.6	53.2	55.8	58.5	11. 43. 43.02		43.14	47.86	4.72		.....	.....	
	45	π Virginis	R.	0.0	15.4	17.5	20.0	...	...	...	...	...	...	11. 55. 30.03		30.50	35.12	4.62		.....	.....	
	46	π Virginis	W	...	...	...	...	...	...	37.8	40.1	42.6	45.1	11. 55. 30.25		30.42	35.12	4.70		.....	.....	
	47	W. B. XII. 379 ..	W	...	1.1	3.5	8.3	10.8	13.4	20.9	23.5	26.0	...	12. 25. 13.46		13.75				12. 25. 18.50	- 2.45	
	48	21 Virginis	W	7.0	9.5	12.1	...	...	...	...	32.0	34.4	36.9	12. 28. 22.00		22.28				12. 28. 27.03	- 2.46	
	49	ρ Virginis	W	19.9	22.2	24.9	29.9	32.3	34.9	42.3	44.9	47.4	50.0	12. 36. 34.89		35.04	39.84	4.80		.....	.....	
	50	W. B. XII. 646 ...	W	55.8	58.4	0.9	...	...	...	...	21.2	23.9	26.2	12. 40. 11.09		11.21				12. 40. 15.96	- 2.69	
	51	ε Virginis	R.	12.0	27.1	42.2	44.7	47.3	...	...	...	...	...	12. 56. 57.33		57.79	2.64	4.85		.....	.....	
	52	Bradley 117 S.P. ...	W	...	...	...	...	...	...	55.9	9.0	22.0	40.9	13. 3. 3.69		5.48				1. 3. 10.23	+ 7.32	
	53	Groomb. 250 S.P. ...	W	58.0	2.0	6.2	10.5	...	...	...	...	...	...	13. 3. 23.03		23.60				1. 3. 28.35	+ 1.36	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 34, + 29.92.

16. Observed in dark field with wires illuminated.

19. Observed over wire T with the transit-micrometer set to readings 33° 890, 34° 065, 34° 176, 34° 293, 34° 410, 34° 504, 34° 610, 34° 734, 34° 842, 34° 960.

32. Observed over wire T with the transit-micrometer set to readings 37° 458, 37° 297, 37° 227, 37° 120, 37° 067, 36° 973, 36° 895, 36° 806, 36° 744, 36° 675.

35, 36. Very ill-defined.

41. Observed over wire T with the transit-micrometer set to readings 35° 426, 35° 260, 35° 148, 34° 946, 34° 541, 34° 450, 34° 349, 34° 069, 33° 913, 33° 766.

45. Observed over wires N, O, P and Q.

51. Observed over wires M, N, O, P and Q.

37, 38, 48. Cloudy.

52. Observed over wires Q, P, O and N.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].							
															s	s						
h	m	s																				
1898 Apr. 11	1	66 Virginis	W	...	...	55.6	0.8	3.3	5.9	13.2	15.6	...	...	13. 19. 5.75	+ 1.00	6.01						
	2	Polaris S.P.	W	4.4	11.7	19.9	26.9	52.1	57.9	4.0	16.1	24.5	32.9	13. 19. 23.69	(- 3.02)	38.34	41.49	3.15	[0.00]	13. 19. 10.76	- 2.56	
	3	Piazzi I. 102 S.P.	W	...	56.0	4.8	...	39.9	48.9	57.6	...	...	...	13. 28. 39.92	[+ 5.39]	41.15				1. 19. 43.09	+ 72.36	
	4	Groomb. 335 S.P.	W	...	...	...	...	...	...	27.2	35.1	43.3	31.5	13. 29. 55.20		56.30				1. 28. 45.90	+ 4.26	
	5	1 Boötis	W	...	27.1	29.7	...	...	...	...	50.8	53.5	...	13. 35. 40.31		40.39				1. 30. 1.05	+ 3.72	
	6	Piazzi XIII. 161.	W	...	...	...	35.4	38.0	40.6	48.5	...	...	...	13. 35. 40.66		40.74				13. 35. 45.14	- 2.77	
	7	7 Virginis	W	...	...	8.9	13.8	16.2	18.7	26.1	28.6	...	...	13. 56. 18.74		18.95	23.72	4.77		13. 35. 45.49	- 2.77	
	8	Piazzi I. 230 S.P.	W	...	...	...	...	...	15.5	21.1	32.1	38.0	43.4	13. 59. 9.82		10.60				.....		
	9	Radcliffe 3149 ...	W	43.1	53.0	2.2	21.7	31.4	41.2	10.1	19.6	29.4	39.1	14. 4. 41.17		40.14				1. 57. 15.35	+ 1.99	
	10	v ² Virginis	W	19.6	22.0	24.5	29.5	32.0	34.2	41.8	44.2	46.7	49.1	14. 16. 34.38		34.62				14. 4. 44.89	- 6.96	
	11	7-yr. Cat. 1860 No. 154 S.P.	W	...	...	...	...	...	...	...	34.7	46.8	53.2	59.5	14. 20. 21.76		22.64				14. 16. 39.37	- 2.56
	12	Bradley 332 S.P.	W	44.0	50.4	56.8	3.2	...	...	...	...	...	...	...	14. 20. 21.84		22.72				2. 20. 27.39	+ 2.18
	13	7-yr. Cat. 1860 No. 156 S.P.	W	45.1	51.6	58.0	4.2	...	...	...	...	...	...	...	14. 20. 22.97		23.85				2. 20. 27.47	+ 2.17
	14	Lalande F. 404 S.P.	W	15.0	21.2	27.7	34.0	...	...	...	...	...	...	...	14. 20. 52.76		53.64				2. 20. 28.60	+ 2.17
	15	Ooltz. Arg. (N.) 2766 S.P.	W	...	...	...	26.0	32.5	38.6	50.6	57.7	4.0	...	...	14. 21. 25.96		26.84				2. 20. 58.39	+ 2.17
	16	Piazzi XIV. 150.	W	56.9	0.0	3.0	8.9	11.9	14.9	24.1	27.0	30.1	33.0	14. 37. 15.01		15.50				2. 21. 31.59	+ 2.17	
	17	e ² Boötis	W	...	...	...	...	...	...	32.9	35.8	38.4	41.2	...	14. 40. 24.60		24.63	29.39	4.76		14. 37. 20.25	- 2.75
	18	Ooltz. Arg. (N.) 3195 S.P.	W	...	35.4	39.9	44.0	57.1	0.9	6.1	14.8	18.9	...	...	14. 42. 57.10		57.68					
	19	η Persei S.P.	W	34.0	38.4	42.9	...	...	...	...	17.5	22.0	26.1	...	14. 43. 0.11		0.69				2. 43. 2.43	+ 0.91
	20	Saturn 1 L.	W	46.5	49.1	51.7	56.6	59.1	1.8	9.6	12.0	14.5	17.2	15. 3. 1.83						2. 43. 5.44	+ 0.91	
	21	Saturn 2 L.	W	47.9	50.4	52.9	57.9	0.4	3.1	10.7	13.2	15.8	18.4	15. 3. 3.09							15. 3. 7.53	
	22	Groomb. 628 S.P.	W	17.5	24.4	31.6	...	...	...	...	27.1	34.5	41.5	15. 9. 59.36		0.34					3. 10. 5.09	+ 1.89
	23	Piazzi III. 27 S.P.	W	...	...	...	14.9	...	37.3	43.4	54.9	0.5	6.0	15. 15. 31.95		32.74					3. 15. 37.49	+ 1.22
	24	Polaris	B	29.5	38.0	43.9	8.7	14.5	20.2	33.3	38.0	45.4	...	1. 19. 51.81	(- 2.66)	38.36	41.55	3.19	4.81	[+ 0.04]	1. 19. 43.17	+ 72.30
Apr. 12	25	κ Cancri	B	48.8	51.2	53.8	58.8	1.2	3.9	11.3	13.9	16.2	18.9	9. 2. 3.82		3.99	8.79	4.80		.....		
	26	83 Cancri	B	52.1	54.7	57.4	2.5	5.0	7.8	15.5	18.1	20.8	23.4	9. 13. 7.76		7.88	12.71	4.83		.....		
	27	Groombridge 1536	B	8.7	12.2	16.0	22.9	26.4	30.2	40.7	44.1	47.8	51.4	9. 14. 30.07		29.96				9. 14. 34.79	- 2.86	
	28	Venus 2 L.	H	36.1	38.6	41.1	46.1	48.6	51.1	58.5	0.9	3.5	6.0	0. 5. 51.07	[+ 5.08]	51.30			4.64	0. 5. 55.54		
	29	Polaris	H	48.9	3.2	33.0	37.7	53.2	1.6	...	...	...	...	1. 19. 49.32	(- 2.08)	37.87	41.74	3.87	[+ 0.08]	1. 19. 42.51	+ 72.11	
Apr. 13	30	⊙ 1 L.	H	...	...	42.9	47.8	50.2	...	0.2	5.3	7.9	...	1. 27. 52.82							1. 29. 2.59	
	31	⊙ 2 L.	H	47.8	50.1	52.6	57.8	0.1	2.6	10.1	12.6	15.2	17.9	1. 30. 2.70		57.95						
	32	α Orionis	H	13.4	15.8	18.3	23.3	25.9	28.2	35.9	38.2	40.8	43.2	5. 49. 28.32		28.53	33.24	4.71		5. 49. 33.19	- 0.79	
	33	γ Geminorum ...	W	22.9	25.4	28.0	33.1	35.7	38.2	46.0	48.5	51.1	53.7	6. 31. 38.28		38.43	43.30	4.87	4.85	.....		
	34	Sirius	H	14.2	16.7	19.4	24.5	27.1	29.8	37.3	39.9	42.4	45.2	6. 40. 29.68		30.03			4.64	6. 40. 34.69	- 0.75	
	35	ζ Hydræ	H	35.6	38.1	40.6	45.5	48.1	50.6	58.0	0.6	2.9	5.5	8. 49. 50.57		50.78				8. 49. 55.45	- 1.77	
	36	Groombridge 1480	H	...	...	...	13.6	30.1	46.5	35.3	51.1	7.5	23.5	8. 55. 46.54		45.08				8. 55. 49.75	- 9.06	
	37	κ Cancri	H	48.7	51.3	53.9	58.8	1.3	...	11.4	13.9	16.4	18.9	9. 2. 3.87		4.05	8.77	4.72		9. 2. 8.72	- 1.90	
	38	83 Cancri	HA	52.0	54.7	57.3	2.6	5.1	7.8	15.5	18.0	20.6	23.4	9. 13. 7.73		7.87	12.69	4.82	4.78	.....		
	39	α Hydræ	HA	10.2	12.8	15.3	20.1	22.8	25.3	32.7	35.2	37.6	40.1	9. 22. 25.23		25.52	30.31	4.79		.....		
	40	ε Leonis	H	38.1	40.8	43.6	48.9	51.7	54.4	2.4	5.2	8.0	10.6	9. 39. 54.40		54.50	59.24	4.74	4.64	9. 39. 59.17	- 2.35	
	41	Groomb. 3582 S.P.	H	...	24.6	28.6	33.1	45.6	...	...	2.0	...	10.9	9. 45. 45.50		46.00				21. 45. 50.67	+ 0.83	
	42	π Leonis	H	...	27.8	30.2	35.2	37.8	40.2	47.8	50.1	52.7	...	9. 54. 40.25		40.45	45.17	4.72		9. 54. 45.12	- 2.13	
	43	Lalande F. 4175 S.P.	H	...	...	...	...	29.4	46.1	2.2	35.6	51.9	8.6	10. 23. 29.34		31.18				22. 23. 35.85	+ 9.05	
	44	Groomb. 3819 S.P.	H	...	...	...	...	55.2	59.6	3.6	11.6	16.0	20.5	10. 29. 55.27		55.77				22. 30. 0.44	+ 1.08	
	45	34 Sextantis	H	...	59.9	2.6	7.6	10.0	12.6	20.0	22.4	24.9	...	10. 37. 12.52		12.74	17.49	4.75		10. 37. 17.42	- 2.24	
	46	34 Sextantis (E&E)	H	57.5	12.3	27.0	...	56.8	11.5	26.6	...	...	...	10. 37. 11.99		12.21	17.49	5.28		.....		
	47	χ Leonis	B	...	...	...	...	...	44.0	46.4	48.9	51.5	...	10. 59. 36.53		36.73	41.48	4.75	4.82	.....		
	48	δ Leonis	B	16.4	19.0	21.6	26.9	29.5	32.1	40.1	42.7	45.5	48.0	11. 8. 32.21		32.33	37.30	4.97		.....		
	49	Bradley 3147 S.P.	H	35.4	51.6	3.2	32.4	52.0	22.9	31.9	39.8	4.4	18.9	11. 27. 11.64		16.24			4.64	23. 27. 20.92	+ 28.18	
	50	Lalande F. 4555 S.P.	H	52.9	7.9	23.5	38.6	24.5	40.1	55.5	25.6	41.5	56.4	11. 38. 24.50		26.23				23. 38. 30.91	+ 9.11	
	51	o Virginis	H	37.4	39.9	42.2	47.4	50.0	52.4	59.9	2.2	4.9	7.4	11. 59. 52.39		52.58	57.22	4.64		11. 59. 57.26	- 2.56	
	52	Groombridge 1858	H	...	...	...	...	11.9	30.6	25.9	43.9	2.5	20.1	12. 6. 30.60		28.92				12. 6. 33.60	- 13.93	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 44, + 30.02.

Correction for passage of Semidiameter, No. 28, - 0.040.

2. Observed over wire S with the transit-micrometer set to readings 35° 7' 17, 35° 6' 80, 35° 6' 00, 35° 5' 10, 35° 3' 10, 35° 2' 70, 35° 1' 90, 35° 0' 98, 35° 0' 23, 34° 59' 56.

4. Observed over wires Q, P, O and N.

24. Observed over wire X with the transit-micrometer set to readings 35° 7' 49, 35° 8' 29, 35° 8' 84, 36° 0' 09, 36° 1' 55, 36° 2' 05, 36° 3' 12, 36° 3' 55, 36° 4' 20.

29. Observed over wire T with the transit-micrometer set to readings 37° 1' 79, 37° 1' 30, 37° 1' 55, 37° 1' 61, 37° 1' 73, 37° 1' 81.

49. Observed over wire T with the transit-micrometer set to readings 35° 0' 53, 34° 0' 75, 34° 0' 43, 33° 0' 74, 33° 0' 28, 32° 0' 57, 32° 0' 36, 32° 0' 18, 31° 0' 68, 31° 0' 29.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Apparent Slow.	Adopted Clock Slow at Sidereal and Losing Rate.	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Apr. 13	1	Bradley 1672	H	51'1	6'9	20'3	10'4	29'0	42'1	8'3	23'5	39'6	38'4	12. 15. 23'99	+ 1'00	15'78				12. 15. 20'46	- 57'62
	2	Polaris S.P.	H	27'1	37'1	45'9	12'6	21'4	29'5	53'5	2'0	9'6	27'4	13. 19. 26'18	(- 2'08)	38'00	41'87	3'87	[+ 0'08]	1. 19. 42'68	+ 71'98
	3	Lalande 24990 ...	H	24'3	26'9	29'6	34'5	36'9	39'6	47'0	49'6	52'1	54'7	13. 25. 39'54	[+ 5'08]	39'86				13. 25. 44'54	- 2'55
	4	B.D.—14° No. 3763	H	...	...	...	46'9	49'6	52'3	59'9	...	47'7	7'2	13. 32. 52'13		52'46				13. 32. 57'15	- 2'56
	5	m Virginis	H	51'7	54'1	56'8	1'8	4'1	6'7	14'2	16'7	19'3	21'7	13. 36. 6'73		7'02	11'66	4'64		13. 36. 11'71	- 2'56
	6	τ Boötis	H	...	4'0	6'7	11'9	14'3	17'1	24'8	27'5	30'0	...	13. 42. 17'07		17'22	21'90	4'68		13. 42. 21'91	- 2'74
	7	τ Boötis.....(E&N)	H	59'9	15'4	31'0	...	2'0	17'7	33'3	...	...	...	13. 42. 16'63		16'78	21'90	5'12		.....	
	8	Piazzi I. 194 S.P.	H	57'1	4'8	13'2	22'0	...	55'6	3'3	19'4	28'0	36'4	13. 49. 46'55		47'53				1. 49. 52'22	+ 3'67
	9	λ Boötis	H	3'1	6'5	10'1	17'4	20'9	24'5	35'3	38'9	42'4	46'0	14. 12. 24'54		24'48				14. 12. 29'17	- 3'32
	10	θ Boötis	H	14'1	...	22'2	30'3	34'4	38'3	50'4	54'3	...	2'5	14. 21. 38'35		38'22				14. 21. 42'91	- 3'53
	11	ε Boötis	H	8'0	10'8	13'7	19'1	22'0	24'8	33'0	35'9	38'6	41'5	14. 40. 24'77		24'86	29'41	4'55		14. 40. 29'55	- 2'74
	12	ψ Boötis	H	40'5	43'3	46'0	51'6	54'4	57'3	5'7	8'2	11'2	14'0	14. 59. 57'25		57'35	2'02	4'67		15. 0. 2'04	- 2'67
	13	Saturn 1 L.	H	15'8	18'2	21'0	25'9	28'4	31'1	38'7	41'4	43'9	46'5	15. 2. 31'11		32'10				15. 2. 36'79	
	14	Saturn 2 L.	H	17'1	19'6	22'2	27'2	29'9	32'5	40'1	42'5	45'2	47'8	15. 2. 32'43							
Apr. 14	15	α Pegasi	J	...	...	...	...	...	...	37'5	40'1	42'6	45'1	22. 59. 29'89	[+ 2'61]	29'95	34'97	5'02	5'00	22. 59. 35'02	- 0'21
Apr. 15	16	⊙ 1 L.....	J	0'4	...	...	...	...	15'6	23'2	25'9	28'2	30'8	1. 35. 15'68		15'76			5'07	1. 36. 25'80	
	17	39 Cancri	J	48'4	51'1	53'8	...	...	...	...	14'8	17'4	20'1	8. 34. 4'29		4'33				8. 34. 9'42	- 1'88
	18	40 Cancri	J	...	56'1	59'1	4'0	...	9'4	...	...	22'6	25'1	8. 34. 9'40		9'44				8. 34. 14'53	- 1'88
	19	γ Cancri.....	J	56'9	59'6	2'2	7'6	10'1	12'9	20'8	23'4	26'1	28'9	8. 37. 12'88		12'91	17'98	5'07		8. 37. 18'01	- 1'92
	20	W. B. (2) VIII. 958	J	2'5	5'3	8'1	13'7	16'5	19'5	28'0	30'5	33'5	36'5	8. 40. 19'44		19'45				8. 40. 24'55	- 2'09
	21	ι Cancri	J	4'4	7'1	10'1	15'6	18'4	21'5	29'8	32'4	35'5	38'3	8. 40. 21'34		21'35				8. 40. 26'45	- 2'09
	22	ρ Hydrae	J	...	39'6	42'0	46'9	49'4	52'0	59'5	2'0	4'4	...	8. 42. 52'00		52'09				8. 42. 57'19	- 1'70
	23	ζ Hydrae	R.	35'2	37'8	40'2	45'1	47'7	50'2	...	...	...	...	8. 49. 50'16		50'45				8. 49. 55'55	- 1'74
	24	α Cancri	R.	...	31'7	34'4	39'3	41'8	44'4	...	...	...	...	8. 52. 44'40		44'69	49'83	5'14		8. 52. 49'79	- 1'86
	25	ξ Cancri	J	3'8	6'2	9'1	14'3	16'9	19'9	27'9	30'4	33'1	35'9	9. 3. 19'78		19'81				9. 3. 24'91	- 2'09
	26	π Cancri	J	17'6	20'1	22'7	28'0	30'3	32'9	40'6	43'1	45'9	48'4	9. 6. 32'98		33'04				9. 6. 38'14	- 1'97
	27	38 Lyncois (1st Star)	J	...	...	...	13'5	16'6	19'7	29'1	...	...	...	9. 12. 19'76		19'72				9. 12. 24'82	- 2'49
	28	38 Lyncois (2nd Star)	J	1'4	4'2	7'4	...	...	...	...	32'2	35'5	38'5	9. 12. 19'90		19'86				9. 12. 24'96	- 2'49
	29	Groombridge 1536	J	8'4	11'8	15'7	22'6	26'1	29'8	40'3	43'9	47'5	51'0	9. 14. 29'74		29'66				9. 14. 34'76	- 2'80
	30	6 Cephei S.P. ...	J	...	...	...	42'8	48'4	5'8	11'3	17'3	28'2	...	9. 17. 5'57		5'92				21. 17. 11'02	+ 1'39
	31	Groomb. 3548 S.P.	J	9'3	15'3	18'4	23'7	28'0	33'6	39'4	45'5	50'6	55'1	9. 19. 51'59		54'16				21. 19. 59'26	+ 20'01
	32	τ Hydrae	R.	22'5	24'8	27'3	...	...	...	37'3	...	47'0	49'5	9. 26. 37'22		37'52				9. 26. 42'62	- 1'84
	33	ι Hydrae	J	14'2	16'8	19'3	24'2	26'8	29'2	36'5	39'1	41'6	44'0	9. 34. 29'19		29'31				9. 34. 34'41	- 1'88
	34	ε Leonis	H	38'1	40'8	43'5	48'9	51'6	54'4	2'6	5'5	8'0	10'7	9. 39. 54'44		54'46	59'21	4'75	4'76†	.....	
	35	Groomb. 3590 S.P.	J	...	...	...	41'5	2'5	10'0	17'2	...	...	...	9. 45. 2'73		3'18			5'07	21. 45. 8'28	+ 2'50
	36	μ Leonis	H	32'0	34'6	37'4	43'0	45'8	48'5	56'7	59'6	2'2	5'0	9. 46. 48'51		48'52	53'34	4'82	4'76†	.....	
	37	Piazzi IX. 187 ...	J	...	...	...	32'1	49'5	58'0	6'8	32'7	41'1	...	9. 49. 6'78		6'32			5'07	9. 49. 11'42	- 6'12
	38	Groomb. 3635 S.P.	J	27'6	33'6	39'6	45'3	2'8	8'9	14'9	26'2	32'3	38'1	9. 54. 2'87		3'23				21. 54. 8'33	+ 1'86
	39	W. B. (2) IX. 1211	J	...	...	...	...	...	35'4	44'0	47'0	49'9	52'9	9. 59. 35'44		35'43				9. 59. 40'53	- 2'60
	40	Groomb. 3701 S.P.	J	51'9	59'9	7'9	15'7	39'1	47'0	54'9	10'5	18'1	26'4	10. 4. 39'06		39'55				22. 4. 44'65	+ 3'18
	41	24 Cephei S.P. ...	J	52'0	59'9	7'7	15'9	39'2	47'5	55'3	11'1	18'9	26'9	10. 7. 39'36		39'86				22. 7. 44'96	+ 3'25
	42	35 Leonis	J	28'0	30'6	33'6	...	...	...	...	54'9	57'7	0'6	10. 10. 44'26		44'28				10. 10. 49'38	- 2'46
	43	ζ Leonis	J	...	38'2	40'9	...	...	51'9	...	2'5	5'4	...	10. 10. 51'80		51'82				10. 10. 56'92	- 2'47
	44	Groomb. 3760 S.P.	J	54'8	0'9	7'2	13'4	31'4	37'6	43'7	55'9	2'1	8'2	10. 18. 31'46		31'84				22. 18. 36'94	+ 2'23
	45	Lalande F. 4124 S.P.	J	55'7	1'9	8'2	14'2	32'3	38'5	44'7	56'9	3'0	9'2	10. 18. 32'40		32'78				22. 18. 37'88	+ 2'23
	46	Groomb. 3771 S.P.	J	...	...	...	...	...	...	45'4	53'7	58'2	2'0	10. 21. 37'27		37'50				22. 21. 42'60	+ 0'95
	47	Groomb. 3773 S.P.	J	...	...	...	...	...	...	57'3	5'2	9'4	13'6	10. 21. 48'83		49'06				22. 21. 54'16	+ 0'95
	48	W. B. X. 425.....	J	...	24'3	27'0	32'0	34'4	37'1	44'4	46'9	49'6	...	10. 26. 36'98		37'06				10. 26. 42'16	- 2'27
	49	ρ Leonis	J	2'0	4'6	7'2	12'0	14'4	17'1	24'5	27'2	29'8	32'1	10. 27. 17'11		17'19	22'37	5'18		10. 27. 22'29	- 2'27
	50	Groomb. 3829 S.P.	J	5'2	9'0	12'7	16'7	27'8	31'9	35'7	43'3	47'1	50'6	10. 31. 27'96		28'16				22. 31. 33'26	+ 0'77
	51	φ Hydrae	J	12'0	14'6	17'2	22'2	24'9	27'6	35'2	37'9	40'2	42'9	10. 33. 27'50		27'68				10. 33. 32'78	- 1'98
	52	34 Sextantis	J	57'4	59'9	2'4	7'3	9'8	12'2	19'6	22'0	24'6	27'1	10. 37. 12'25		12'35	17'48	5'13		10. 37. 17'45	- 2'23

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 7, + 30'05.
Correction for passage of Semidiameter, No. 16, + 64'97.

- Observed over wire T with the transit-micrometer set to readings 35'202, 35'393, 35'557, 36'172, 36'388, 36'550, 36'881, 37'040, 37'240, 37'968.
- Observed over wire T with the transit-micrometer set to readings 36'673, 36'549, 36'478, 36'239, 36'160, 36'108, 35'880, 35'799, 35'750, 35'590.
- Observed in dark field with wires illuminated.
- Observed over wire Q with the transit-micrometer set to readings 36'299, 36'149, 36'034, 35'930, 35'840, 35'666, 35'550, 35'421, 35'310, 35'211.
- Faint; cloudy.
- Cloudy.

1898GQAMM...58A...1C

[56]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898CQAWW

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
Apr. 15	1	42 Leonis Minoris	J	...	...	...	...	59.9	2.6	11.2	14.5	17.2	20.1	10. 40. 2.78	+ 1.00	2.78			5.07	10. 40. 7.88	- 2.77
	2	W. B. (2) X. 775...	J	...	...	...	...	1.9	4.6	13.0	16.1	19.1	22.0	10. 40. 4.64	(- 2.08)	4.64		[+ 0.07]	10. 40. 9.74	- 2.77	
	3	W. B. (2) X. 781...	J	...	...	...	...	...	...	...	...	...	...	10. 40. 36.09	[+ 2.61]	36.09			10. 40. 41.19	- 2.77	
	4	Groombridge 1697	J	40.2	47.8	55.4	9.9	17.2	24.9	...	...	...	...	10. 46. 24.69		24.32			10. 46. 29.42	- 5.91	
	5	Oeltz. Arg. (N.) 11184	J	...	...	...	...	36.2	44.0	51.2	13.6	...	...	10. 47. 51.32		50.95			10. 47. 56.05	- 5.95	
	6	Bradley 1531	J	...	...	...	8.0	13.2	16.0	18.9	27.2	30.0	...	10. 57. 18.91		19.14			10. 57. 24.24	- 2.02	
	7	π Cephei S.P.	J	...	...	...	47.2	56.8	25.1	...	...	...	...	11. 4. 24.94		25.53			23. 4. 30.63	+ 4.75	
	8	Groomb. 4031 S.P.	J	...	...	...	36.2	48.1	25.7	38.4	51.1	15.9	...	11. 12. 25.78		26.57			23. 12. 31.67	+ 6.89	
	9	Oeltz. Arg. (N.) 11669	J	...	...	...	...	...	...	...	...	...	...	11. 14. 26.39		26.16			11. 14. 31.26	- 4.79	
	10	79 Leonis	J	24.4	26.8	29.4	34.4	36.9	39.5	46.7	49.0	51.5	54.1	11. 18. 39.29		39.40			11. 18. 44.50	- 2.36	
	11	79 Leonis	J	17.6	20.1	22.7	...	...	...	...	...	...	...	11. 22. 32.57		32.68	37.69	5.01	11. 22. 37.78	- 2.39	
	12	W. B. XI. 349	J	...	...	...	...	28.1	30.7	33.2	40.6	...	...	11. 22. 33.17		33.28			11. 22. 38.38	- 2.39	
	13	W. B. XI. 365	J	...	...	...	...	...	...	...	2.4	...	12.1	14.5	17.1	11. 23. 2.29		2.40		11. 23. 7.50	- 2.39
	14	W. B. XI. 372	J	...	...	...	...	...	...	...	...	...	...	11. 23. 37.13		37.24			11. 23. 42.34	- 2.39	
	15	Groomb. 4135 S.P.	J	...	...	...	...	14.4	18.5	31.3	...	...	...	...	11. 39. 31.34		31.59			23. 39. 36.69	+ 1.35
	16	β Leonis	J	27.4	30.0	32.4	37.5	40.0	42.6	50.2	52.9	55.4	58.1	11. 43. 42.67		42.73	47.85	5.12	11. 43. 47.83	- 2.61	
	17	β Virginis	J	59.2	1.6	4.0	8.9	11.4	13.9	21.4	23.8	26.1	28.6	11. 45. 13.91		14.02	19.10	5.08	11. 45. 19.12	- 2.46	
	18	Lacaille 4913	J	5.5	8.4	11.4	...	...	...	...	...	34.2	36.9	40.0	11. 46. 22.76		23.02			11. 46. 28.12	- 2.25
	19	ι Comæ	J	6.1	8.9	11.7	...	...	...	...	...	33.1	35.7	38.3	11. 56. 22.31		22.34			11. 56. 27.44	- 2.78
	20	3 Comæ	J	55.6	58.1	0.8	5.9	8.5	11.2	18.9	21.3	24.0	26.6	12. 5. 11.12		11.17			12. 5. 16.28	- 2.70	
	21	Bradley 1672	J	8.8	38.9	59.3	6.5	12.2	17.8	22.9	27.7	35.8	41.2	12. 15. 19.96		15.03			12. 15. 20.14	- 56.84	
	22	Polaris S.P.	J	53.1	0.4	5.5	9.9	25.6	29.2	37.5	3.0	7.2	11.9	13. 19. 30.40		37.37	42.45	5.08	.....		
	23	η Persei S.P.	J	...	38.1	42.9	...	...	...	...	...	17.5	22.1	...	14. 43. 0.08		0.32			2. 43. 5.43	+ 0.91
	24	Groombridge 2157	J	44.1	48.2	52.3	59.9	4.2	8.1	20.1	24.1	28.2	32.1	14. 46. 8.17		8.05			14. 46. 13.16	- 3.39	
	25	Saturn 1 L.	J	43.9	46.4	49.1	54.1	56.7	59.5	6.9	9.4	12.0	14.2	15. 1. 59.24		} 0.01			15. 2. 5.12		
	26	Saturn 2 L.	J	45.1	47.5	50.2	55.3	58.1	0.5	8.1	10.6	13.2	15.6	15. 2. 0.43					15. 9. 14.26	- 3.45	
	27	Groombridge 2203	J	42.5	46.9	51.5	0.2	4.7	9.3	22.8	27.1	31.6	36.0	15. 9. 9.31		9.15			15. 10. 16.25	- 3.44	
	28	Groombridge 2209	J	44.5	48.8	53.4	2.3	6.8	11.2	24.7	29.1	33.6	38.1	15. 10. 11.30		11.14			15. 11. 13.78	- 29.11	
	29	Groombridge 2283	J	12.8	17.6	22.2	26.1	45.2	49.4	53.3	58.0	15.6	21.3	15. 11. 12.25		8.67			15. 23. 35.01	- 2.64	
	30	β Coronæ	J	12.9	15.7	18.5	24.1	27.1	30.0	38.3	41.2	44.0	46.9	15. 23. 29.90		29.90			15. 29. 31.85	- 3.80	
	31	Piazzi XV. 136	J	52.5	58.1	4.0	15.5	21.0	27.1	44.1	49.8	55.6	1.5	15. 29. 26.98		26.73			15. 36. 24.43	- 3.27	
	32	Groombridge 2265	J	...	...	...	...	10.1	14.8	19.4	33.4	...	...	...	15. 36. 19.48		19.31			15. 36. 36.88	- 3.27
	33	Groombridge 2266	J	...	...	...	13.4	22.6	27.2	32.0	45.8	50.3	...	...	15. 36. 31.93		31.76			15. 45. 40.24	- 2.46
	34	ε Serpentis	J	20.0	22.7	25.1	...	...	...	35.1	...	44.9	47.3	15. 45. 35.02		35.12	40.31	5.19			
Apr. 16	35	Bradley 74 S.P.	B	...	...	...	...	49.0	10.1	30.8	11.7	32.8	53.3	12. 44. 49.11	(- 2.62)	51.32			4.96	0. 44. 56.29	+ 12.38
	36	δ Virginis	B	4.4	6.8	9.4	14.2	16.8	19.4	26.8	29.1	31.6	34.1	12. 50. 19.28	[+ 4.38]	19.44	24.43	4.99	[+ 0.02]		
	37	W. B. (2) XII. 1077	B	37.9	40.7	43.9	49.6	52.4	55.5	4.0	6.9	10.0	12.8	12. 55. 55.40		55.39			12. 56. 0.36	- 3.05	
	38	θ Virginis	B	16.2	18.7	21.3	26.1	28.6	31.1	38.6	41.1	43.5	46.0	13. 4. 31.14		31.35	36.37	5.02	.....		
	39	β Comæ	B	42.3	45.1	48.0	53.6	56.2	59.2	7.5	10.2	13.2	16.0	13. 6. 59.16		59.18			13. 7. 4.15	- 2.93	
	40	W. B. XIII. 121.	B	11.4	14.0	16.4	21.4	24.0	26.5	34.0	36.5	39.0	41.6	13. 10. 26.50		26.75			13. 10. 31.72	- 2.55	
	41	Piazzi I. 52 S.P.	B	...	...	...	...	36.4	58.3	5.9	13.1	...	...	13. 17. 58.36		59.17			1. 18. 4.14	+ 3.32	
	42	Polaris S.P.	B	26.6	31.5	36.5	40.7	8.3	13.7	18.8	33.8	39.8	44.1	13. 19. 26.66		38.37	42.77	4.40	1. 19. 43.34	+ 71.08	
	43	ζ Virginis	B	6.1	8.6	11.2	16.1	18.5	21.1	28.4	30.9	33.4	35.9	13. 29. 21.04		21.23	26.16	4.93	.....		
	44	B.D. -13° No. 3733	B	36.0	38.4	41.0	46.1	48.6	...	58.7	1.3	4.0	6.5	13. 31. 51.21		51.47			13. 31. 56.44	- 2.58	
	45	m Virginis	B	51.6	54.0	56.5	1.5	4.0	6.5	14.0	16.4	18.9	21.4	13. 36. 6.50		6.73	11.69	4.96	.....		
	46	v ¹ Virginis	EB	53.5	56.0	58.4	3.4	6.0	8.3	15.9	18.1	20.6	23.2	14. 14. 8.36		8.55			4.91	14. 14. 13.47	- 2.62
	47	v ² Virginis	EB	19.6	22.1	24.5	29.5	32.0	34.5	41.9	44.3	46.8	49.4	14. 16. 34.48		34.67			14. 16. 39.59	- 2.62	
	48	φ Virginis	EB	...	...	...	...	45.5	48.1	55.5	58.0	0.4	2.9	14. 22. 48.11		48.30			14. 22. 53.22	- 2.61	
	49	ρ Boötis	EB	1.6	4.2	7.3	12.9	15.9	18.9	27.4	30.2	33.1	36.0	14. 27. 18.78		18.79	23.73	4.94	.....		
	50	ζ Boötis	EB	53.3	55.7	58.3	3.4	6.0	8.5	16.1	18.7	21.4	23.9	14. 36. 8.55		8.65			14. 36. 13.57	- 2.66	
	51	34 Boötis	EB	...	...	...	...	43.5	46.1	49.0	57.3	0.0	2.8	5.5	14. 38. 48.99		49.03			14. 38. 53.95	- 2.79
	52	8 Libræ	EB	...	...	...	...	48.2	50.8	53.5	1.1	3.6	6.2	8.8	14. 44. 53.43		53.71			14. 44. 58.63	- 2.63
	53	α Libræ	EB	12.5	15.0	17.5	20.1	...	...	...	...	...	...	14. 45. 4.79		5.07	10.05	4.98	.....		

18. Very diffused.

21. Observed over wire T with the transit-micrometer set to readings 34° 721, 35° 110, 35° 347, 35° 430, 35° 496, 35° 576, 35° 640, 35° 685, 35° 810, 35° 860.

22. Cloudy. Observed over wire O with the transit-micrometer set to readings 34° 563, 34° 460, 34° 410, 34° 390, 34° 270, 34° 221, 34° 156, 33° 944, 33° 877, 33° 837.

29. Observed over wire W with the transit-micrometer set to readings 35° 665, 35° 737, 35° 800, 35° 853, 36° 223, 36° 255, 36° 323, 36° 403, 36° 690, 36° 791.

40. Very faint.

42. Observed over wire T with the transit-micrometer set to readings 35° 620, 35° 569, 35° 516, 35° 470, 35° 220, 35° 183, 35° 140, 35° 010, 34° 956, 34° 920.

44. Observed in dark field with wires illuminated.

MONTH and DAY.	No. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adapted Clock Slow as of Sidereal [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Red- uction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
1898 APRIL 16	1	♄ Libræ.....	EB	49'9	52'2	54'9	59'9	2'3	4'9	12'4	14'9	17'4	20'0	14. 51. 4'90	+ 1'00	5'15	10'02	4'87	4'91		
	2	Saturn 1 L.....	EB	28'0	30'4	33'1	38'1	40'9	43'3	50'9	53'3	56'0	58'6	15. 1. 43'28	(- 2'62)	} 44'18	}	}	[+ 0'02]	15. 1. 49'10	
	3	Saturn 2 L.....	EB	29'2	31'7	34'3	39'5	42'1	44'4	52'1	54'7	57'3	59'9	15. 1. 44'54	[+ 4'38]						
	4	Groomb. 628 S.P.	EB	...	24'2	31'6	38'3	59'6	6'4	13'5	27'4	34'4	...	15. 9. 59'36		0'14			3. 10. 5'06	+ 1'94	
	5	Lalande 27966-7..	EB	43'3	45'8	48'4	53'5	56'0	58'8	6'3	8'8	11'4	14'0	15. 15. 58'65		58'92			15. 16. 3'84	- 2'61	
	6	♄ Libræ.....	EB	5'4	8'0	10'5	15'7	18'1	20'9	28'5	31'1	33'6	36'1	15. 22. 20'82		21'10	26'00	4'90	.....		
	7	Uranus	EB	29'4	32'1	34'7	40'0	42'4	45'1	52'9	55'5	58'1	0'8	15. 24. 45'13		45'43			15. 24. 50'35		
	8	α Coronæ	EB	58'0	0'8	3'6	9'0	12'0	14'6	22'9	25'6	28'4	31'2	15. 30. 14'64		14'67	19'64	4'97	.....		
	9	Venus 2 L.....	H	38'1	40'7	43'1	48'0	...	53'1	0'4	...	...	...	0. 23. 53'02	(- 3'37)	53'17			0. 23. 57'52		
	10	Polaris	H	28'9	36'8	42'1	49'9	59'1	6'0	14'8	21'4	30'2	37'1	1. 19. 51'98		38'68	42'92	4'24	1. 19. 43'43	+ 70'93	
APRIL 17	11	♄ 2 L.....	H	...	38'2	40'9	46'0	48'4	51'0	58'6	0'9	3'5	...	1. 44. 50'96		51'04			1. 43. 50'65		
	12	♄ 1 L.....	H	...	...	...	...	...	...	...	...	11'9	29'2	5. 5. 37'66		37'64			5. 6. 54'01		
	13	83 Cancri	H	52'2	54'8	57'5	2'5	5'3	8'0	15'6	18'1	20'9	23'4	9. 13. 7'86		7'90	12'64	4'74	9. 13. 12'66	- 2'03	
	14	Groomb. 3548 S.P.	H	39'3	46'7	57'5	37'1	44'6	54'2	12'6	25'9	32'0	50'9	9. 19. 52'09		57'07			21. 20. 1'83	+ 19'33	
	15	♄ Hydræ.....R.	H	14'5	17'0	19'6	24'2	26'9	29'4	36'7	39'1	41'6	44'1	9. 34. 29'33		29'77			9. 34. 34'53	- 1'85	
	16	ε Leonis.....	H	38'1	40'8	43'6	48'9	51'7	54'4	2'4	5'1	7'9	10'5	9. 39. 54'37		54'37	59'19	4'82	9. 39. 59'13	- 2'30	
	17	π Leonis.....	HF	25'1	27'6	30'1	35'1	37'6	40'1	47'7	50'1	52'6	55'1	9. 54. 40'13		40'23	45'12	4'89	.....		
	18	Regulus.....	HF	32'0	34'4	37'1	42'1	44'5	47'3	54'7	57'3	59'8	2'3	10. 2. 47'17		47'25	52'18	4'93	.....		
	19	χ Leonis.....	H	21'6	24'0	26'6	31'5	34'0	36'5	44'0	46'5	49'0	51'5	10. 59. 36'54		36'64	41'45	4'81	10. 59. 41'40	- 2'34	
	20	β Leonis.....	H	...	30'2	32'9	38'0	40'5	43'1	50'8	53'3	55'8	...	11. 43. 43'10		43'16	47'84	4'68	11. 43. 47'92	- 2'60	
	21	β Leonis ... (E&E)	H	26'6	42'1	57'3	...	28'0	43'4	58'7	...	...	...	11. 43. 42'59		42'65	47'84	5'19	.....		
	22	Groomb. 120 S.P...R.	H	8'1	14'1	20'1	26'1	...	...	...	...	...	...	12. 35. 43'87		44'09			0. 35. 48'85	+ 2'51	
	23	Carrington 104 S.P.	H	...	...	...	24'1	53'1	20'9	15'9	44'0	11'9	12. 44. 25'00		28'34			0. 44. 33'10	+ 17'00		
	24	θ Virginis	H	16'5	18'9	21'5	26'3	29'0	31'4	38'9	41'2	43'9	46'2	13. 4. 31'40		31'58	36'38	4'80	13. 4. 36'34	- 2'56	
	25	Polaris S.P.	H	59'5	9'5	21'1	44'1	57'0	4'1	36'2	52'1	0'8	21'5	13. 19. 25'49		38'97	43'07	4'10	1. 19. 43'73	+ 70'78	
	26	ζ Virginis	H	...	8'9	11'4	16'1	18'7	21'3	28'5	31'1	33'6	...	13. 29. 21'22		21'38	26'17	4'79	13. 29. 26'14	- 2'62	
	27	ζ Virginis ... (E&E)	H	6'4	21'1	36'0	...	5'7	20'5	35'3	...	...	...	13. 29. 20'73		20'89	26'17	5'28	.....		
	28	1 Boötis	H	24'6	...	30'0	...	...	40'4	...	51'0	...	56'2	13. 35. 40'46		40'48			13. 35. 45'24	- 2'81	
	29	Piazzi XIII. 161..	H	...	27'6	...	35'6	38'1	...	48'9	...	54'1	...	13. 35. 40'89		40'91			13. 35. 45'67	- 2'81	
	30	3 Boötis	H	35'2	...	40'7	46'1	48'9	51'8	59'9	2'6	...	8'1	13. 41. 51'69		51'67			13. 41. 56'43	- 2'90	
	31	Arcturus.....	H	37'3	39'8	42'4	47'8	50'3	53'1	0'7	3'5	6'1	8'7	14. 10. 53'00		53'02	57'77	4'75	14. 10. 57'78	- 2'74	
	32	ν Virginis	H	...	...	...	...	...	42'0	44'5	46'9	49'3	...	14. 16. 34'61		34'77			14. 16. 39'53	- 2'63	
	33	Carrington 2170..	H	57'6	10'4	24'1	53'5	36'3	45'4	...	...	...	...	14. 22. 41'96		38'69			14. 22. 43'45	- 17'26	
	34	Oeltz. Arg. (N.) 2970 S.P.	H	57'6	4'9	...	20'6	43'1	...	...	...	...	...	14. 32. 43'16		44'08			2. 32. 48'84	+ 2'76	
	35	Lalande 26855 ...	H	...	52'6	55'4	0'7	3'4	6'0	14'0	16'7	19'4	...	14. 40. 6'06		6'36			14. 40. 11'12	- 2'70	
	36	8 Libræ	H	38'0	40'7	43'2	48'3	51'0	53'5	1'3	3'9	6'2	8'8	14. 44. 53'52		53'78			14. 44. 58'54	- 2'65	
	37	α Libræ	H	49'6	52'1	54'8	59'9	2'4	5'0	12'6	15'2	17'8	20'3	14. 45. 5'00		5'26	10'06	4'80	14. 45. 10'02	- 2'65	
38	Saturn 1 L.....	H	11'9	...	...	22'1	24'7	27'1	34'9	37'3	40'0	42'4	15. 1. 27'21		} 28'10	}	}	15. 1. 32'86			
39	Saturn 2 L.....	H	13'4	...	...	23'4	26'0	28'3	36'1	38'5	41'2	43'9	15. 1. 28'51								
40	♄ Libræ	H	5'5	8'1	10'8	15'9	18'3	21'1	28'8	31'3	33'9	36'4	15. 22. 21'04		21'30	26'02	4'72	15. 22. 26'06	- 2'64		
41	Uranus 1 L.....	H	20'6	...	25'9	...	...	36'3	...	46'5	...	51'8	15. 24. 36'24		} 36'71	}	}	15. 24. 41'47			
42	Uranus 2 L.....	H	...	23'6	...	31'3	34'0	...	44'4	...	49'6	...	15. 24. 36'61								
43	α Pegasi.....	B	14'7	17'3	19'9	24'9	27'4	30'0	37'7	40'1	42'7	45'2	22. 59. 30'01	[+ 4'29]	30'07	35'03	4'96	22. 59. 35'07	- 0'27		
APRIL 18	44	ζ Hydræ	B	35'5	38'0	40'3	45'4	47'9	50'3	57'8	0'2	2'7	5'3	8. 49. 50'36		50'47			8. 49. 55'45	- 1'70	
	45	α Cancri.....	B	29'6	32'0	34'6	39'7	42'1	44'7	52'2	54'8	57'3	59'9	8. 52. 44'71		44'78	49'78	5'00	8. 52. 49'76	- 1'81	
	46	κ Ursæ Majoris...	B	7'5	11'1	14'8	22'0	25'8	29'5	40'3	44'0	47'8	51'5	8. 56. 29'47		29'26			8. 56. 34'24	- 2'67	
	47	Piazzi VIII. 245..	B	33'5	36'5	39'8	46'0	49'1	52'2	1'9	4'9	8'1	11'4	8. 59. 52'37		52'25			8. 59. 57'23	- 2'40	
	48	κ Cancri.....	B	...	...	53'6	58'5	1'1	3'8	11'2	13'8	...	...	9. 2. 3'69		3'77	8'70	4'93	9. 2. 8'75	- 1'83	
	49	ξ Cancri.....	B	3'9	6'3	9'1	14'4	17'1	20'0	27'9	30'4	33'1	35'9	9. 3. 19'84		19'84			9. 3. 24'82	- 2'04	
	50	π Cancri	B	17'7	20'1	22'6	28'0	30'4	33'0	40'6	43'1	45'9	48'2	9. 6. 32'98		33'03			9. 6. 38'01	- 1'93	
	51	θ Hydræ	B	39'0	41'5	44'0	48'9	51'4	54'0	1'3	3'7	6'1	8'6	9. 8. 53'87		54'00			9. 8. 58'98	- 1'76	
	52	83 Cancri	B	...	54'5	57'2	2'4	5'0	7'6	15'3	18'0	20'5	...	9. 13. 7'59		7'62	12'62	5'00	9. 13. 12'60	- 2'01	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 21 and 27, + 29'89 and + 29'88.
 Corrections for passage of Semidiameter, Nos. 9, 11, and 12, - 0'40 : - 65'14 : and + 71'62.

2, 3. Very unsteady.

10. Observed over wire U with the transit-micrometer set to readings 35'049, 35'118, 35'159, 35'243, 35'309, 35'383, 35'464, 35'513, 35'582, 35'643.

12. Observed over wires Y and Z.

14. Observed over wire T with the transit-micrometer set to readings 35'925, 35'712, 35'470, 34'500, 34'342, 34'100, 33'680, 33'361, 33'221, 32'747.

25. Observed over wire T with the transit-micrometer set to readings 36'347, 36'272, 36'159, 35'971, 35'840, 35'798, 35'499, 35'371, 35'290, 35'112.

33. Observed over wire T with the transit-micrometer set to readings 34'032, 34'470, 34'975, 36'033, 37'489, 37'842.

38, 39. Faint; clouds passing.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
1898	Apr. 18	1	α Lynceis	B	22.5	25.6	28.7	34.6	37.7	40.7	49.7	52.6	55.7	58.8	9. 14. 40.69	+ 1.00	40.60			5.00	9. 14. 45.58	- 2.38
		2	21 Ursæ Maj. (1st Star)	B	48.3	52.6	56.9	5.5	9.6	14.0	26.7	30.9	35.1	39.5	9. 18. 13.95	(- 3.37)	13.64		[- 0.04]	9. 18. 18.62	- 3.18	
		3	21 Ursæ Maj. (2nd Star)	B	49.0	53.2	57.5	6.0	10.1	14.5	27.2	31.5	35.7	40.0	9. 18. 14.51	[+ 4.29]	14.20			9. 18. 19.18	- 3.18	
		4	Groombridge 3479 S.P.	B	4.9	15.6	26.2	36.8	...	20.0	30.2	51.2	2.1	13.0	9. 23. 8.78		10.07			21. 23. 15.05	+ 3.86	
		5	τ^2 Hydræ	R.	22.3	24.8	27.4	32.2	34.6	37.4	44.5	47.1	49.5	52.0	9. 26. 37.20		37.63			9. 26. 42.61	- 1.80	
		6	ϵ Hydræ	B	...	...	19.5	24.3	26.9	29.5	36.8	39.3	...	...	9. 34. 29.40		29.55			9. 34. 34.53	- 1.84	
		7	Groombridge 1575	B	10.4	16.4	22.6	34.8	40.9	47.1	5.4	11.4	17.6	23.6	9. 37. 47.08		46.53			9. 37. 51.51	- 4.40	
		8	μ Leonis	R.	31.4	34.1	36.9	42.4	45.1	48.0	...	...	...	...	9. 46. 47.94		48.37	53.29	4.92	9. 46. 53.35	- 2.35	
		9	λ Hydræ	R.	12.3	14.8	17.4	22.4	24.9	27.5	34.9	37.5	40.0	42.7	10. 5. 27.46		27.89			10. 5. 32.87	- 1.85	
		10	35 Leonis	B	...	...	33.6	38.9	41.5	44.2	52.3	55.1	...	...	10. 10. 44.30		44.29			10. 10. 49.27	- 2.43	
		11	Piazz X. 26	B	26.6	33.6	40.7	54.6	1.5	8.5	29.3	36.0	43.3	50.1	10. 13. 8.49		7.82			10. 13. 12.80	- 5.29	
		12	44 Leonis	B	28.5	30.9	33.5	38.3	41.0	43.6	50.9	53.5	56.0	58.5	10. 19. 43.49		43.58			10. 19. 48.56	- 2.20	
		13	Bradley 1439 ... R.	B	...	...	...	52.0	8.1	24.0	11.6	...	...	...	10. 25. 24.08		24.85			10. 25. 29.83	- 10.79	
		14	42 Leonis Minoris	B	45.5	48.2	51.2	56.9	59.4	2.8	11.3	14.0	17.1	20.0	10. 40. 2.67		2.61			10. 40. 7.59	- 2.74	
		15	W. B. (2) X. 781 ...	B	...	...	...	...	...	...	44.9	47.9	50.6	53.7	10. 40. 36.34		36.28			10. 40. 41.26	- 2.74	
		16	54 Leonis	B	40.2	42.9	45.7	51.0	54.0	56.7	4.8	7.5	10.1	12.9	10. 49. 56.61		56.59			10. 50. 1.57	- 2.63	
		17	β Ursæ Majoris ...	B	...	...	15.5	24.2	28.9	33.7	46.9	51.5	...	...	10. 55. 33.49		33.15			10. 55. 38.13	- 4.02	
		18	α Ursæ Majoris ...	B	46.7	52.0	57.5	8.0	13.4	18.8	34.7	40.1	45.4	50.4	10. 57. 18.75		18.29			10. 57. 23.27	- 4.55	
		19	ψ Ursæ Majoris ...	B	26.5	30.0	33.5	40.4	44.0	47.5	58.0	1.5	4.9	8.4	11. 3. 47.50		47.31			11. 3. 52.29	- 3.31	
		20	δ Leonis	B	16.4	19.0	21.7	26.9	29.6	32.2	40.1	42.8	45.5	48.1	11. 8. 32.26		32.27	37.27	5.00	11. 8. 37.25	- 2.60	
		21	ϵ^1 Ursæ Majoris ...	B	18.8	21.5	...	...	...	...	...	...	50.5	53.6	11. 12. 36.13		36.07			11. 12. 41.05	- 2.86	
		22	ϵ^2 Ursæ Majoris ...	B	...	...	24.5	30.1	33.1	...	44.8	47.8	...	...	11. 12. 36.09		36.03			11. 12. 41.01	- 2.86	
		23	λ Draconis	B	32.4	39.6	46.9	0.9	8.1	15.8	37.0	44.1	51.6	58.4	11. 25. 15.55		14.85			11. 25. 19.83	- 5.95	
		24	γ Cephei S.P. ... R.	B	46.7	58.8	10.0	20.7	...	...	...	...	...	...	11. 34. 53.42		53.48			23. 34. 58.46	+ 5.81	
		25	γ Cephei S.P. ...	B	...	...	...	...	52.2	3.4	15.1	36.4	47.9	58.4	11. 34. 52.48		53.80			23. 34. 58.78	+ 5.81	
		26	χ Ursæ Majoris ...	B	10.1	13.9	17.7	25.0	28.6	32.3	43.6	47.1	50.9	54.6	11. 40. 32.42		32.20			11. 40. 37.18	- 3.59	
		27	β Leonis	B	27.5	30.0	32.6	37.6	40.2	42.8	50.4	53.1	55.6	58.2	11. 43. 42.82		42.87	47.83	4.96	11. 43. 47.85	- 2.59	
		28	β Virginis	B	59.1	1.6	4.1	8.9	11.5	14.0	21.5	23.9	26.4	28.9	11. 45. 14.01		14.14	19.09	4.95	11. 45. 19.12	- 2.45	
		29	Groombridge 1830	B	...	41.7	44.9	51.1	54.3	57.7	6.9	10.0	13.2	...	11. 46. 57.51		57.40			11. 47. 2.38	- 3.27	
		30	γ Ursæ Majoris ...	B	55.7	59.9	4.1	12.5	16.9	20.9	33.7	38.0	42.1	46.3	11. 48. 21.05		20.75			11. 48. 25.73	- 3.98	
		31	π Virginis	B	15.1	17.6	20.1	25.1	27.5	30.0	37.5	40.0	42.4	45.0	11. 55. 30.05		30.16	35.10	4.94	11. 55. 35.14	- 2.52	
		32	ι Comæ	B	...	9.1	11.9	17.1	19.9	22.4	30.5	33.1	36.0	...	11. 56. 22.53		22.53			11. 56. 27.51	- 2.77	
		33	$\circ$ Virginis	B	37.2	39.6	42.1	47.1	49.7	52.1	59.7	2.2	4.7	7.1	11. 59. 52.17		52.26	57.21	4.95	11. 59. 57.24	- 2.55	
		34	3 Comæ	R.	55.4	58.0	0.5	5.9	8.2	11.0	18.7	21.3	23.9	26.4	12. 5. 10.96		11.40			12. 5. 16.38	- 2.69	
		35	4 Comæ	B	16.0	18.7	21.5	26.9	29.8	32.5	40.6	43.5	46.1	48.9	12. 6. 32.48		32.45			12. 6. 37.43	- 2.87	
		36	6 Comæ	B	25.4	28.0	30.7	35.9	38.3	40.9	48.4	51.2	53.8	56.2	12. 10. 40.90		40.95			12. 10. 45.93	- 2.67	
		37	η Virginis	B	17.6	20.0	22.4	27.5	30.0	32.4	39.8	42.2	44.8	47.2	12. 14. 32.41		32.56	37.53	4.97	12. 14. 37.54	- 2.49	
		38	Groombridge 2007	B	38.1	50.0	2.0	14.5	25.5	38.5	...	...	...	...	13. 19. 8.10		4.69			13. 19. 9.67	- 20.47	
		39	Polaris S.P.	B	11.1	22.0	48.0	59.0	6.9	24.7	32.2	46.4	53.4	59.6	13. 19. 25.64		38.95	43.34	4.39	.....	.....	
		40	ζ Virginis	B	...	...	...	...	...	28.4	30.9	33.4	35.9	...	13. 29. 21.09		21.24	26.17	4.93	13. 29. 26.22	- 2.62	
		41	Lalande F. 2348 ..	B	28.1	42.4	56.6	12.0	23.0	36.9	...	...	...	...	13. 33. 3.17		59.34			13. 33. 4.32	- 22.39	
		42	ι Boötis	B	...	27.1	29.6	...	...	...	...	50.6	53.3	...	13. 35. 40.18		40.20			13. 35. 45.18	- 2.82	
		43	Piazz XIII. 161 ..	B	...	...	...	35.4	38.0	40.6	48.4	...	...	...	13. 35. 40.63		40.65			13. 35. 45.63	- 2.82	
		44	τ Boötis	D	...	...	6.6	12.0	14.5	17.2	24.9	27.5	...	...	13. 42. 17.15		17.19	21.93	4.74	4.84	.....	
		45	ϵ Cassiopeiæ S.P.	B	14.3	19.9	25.1	30.4	47.2	52.5	58.1	8.9	14.3	20.0	13. 46. 47.02		47.65			1. 46. 52.63	+ 1.90	
		46	η Boötis	D	26.1	28.7	31.1	36.6	39.3	41.9	49.6	52.2	54.8	57.4	13. 49. 41.80		41.83	46.72	4.89	4.84	.....	
		47	Groombridge 2069	B	2.0	5.5	8.9	15.6	18.9	22.4	32.2	35.5	39.1	42.3	13. 55. 22.27		22.11			13. 55. 27.09	- 3.28	
		48	Groombridge 426 S.P.	B	...	...	...	10.6	25.4	41.6	12.9	28.4	44.1	13. 57. 9.86		10.18			1. 57. 15.16	+ 7.99		
		49	α Draconis	B	...	...	...	22.4	28.0	34.0	51.4	...	...	...	14. 1. 34.01		34.07			14. 1. 39.05	- 4.75	
		50	κ Virginis	B	2.9	5.5	8.0	12.9	15.4	18.0	25.5	28.0	30.5	32.9	14. 7. 17.98		18.44	23.42	4.98	14. 7. 23.42	- 2.64	
		51	Arcturus	B	...	...	42.2	47.1	49.8	52.5	0.4	2.9	...	...	14. 10. 52.51		52.79	57.78	4.99	14. 10. 57.77	- 2.75	
		52	λ Boötis	B	...	...	...	...	...	38.1	41.9	45.5	7.0	14. 12. 23.96		24.13			14. 12. 29.11	- 3.37		
		53	ν^2 Virginis	B	19.4	22.0	24.2	29.3	31.5	34.2	...	...	...	...	14. 16. 34.19		34.60			14. 16. 39.58	- 2.64	
		54	Bradley 332 S.P. ..	B	45.0	51.0	57.3	3.7	22.5	28.9	35.2	47.7	54.0	0.2	14. 20. 22.49		22.61			2. 20. 27.59	+ 2.15	

For Nos. 48 to 54. Reading of Transit-Micrometer 35^r.500.

15. Observed in dark field with wires illuminated.

32, 38, 41, 54. Very faint.

38, 41. Observed over wire T with the transit-micrometer set to readings 34^r.600, 35^r.000, 35^r.400, 35^r.800, 36^r.200, 36^r.600.39. Observed over wire T with the transit-micrometer set to readings 35^r.191, 35^r.111, 34^r.876, 34^r.785, 34^r.705, 34^r.575, 34^r.519, 34^r.360, 34^r.280, 34^r.225.

52. Observed over wires V, W, X and Y.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.			Error of Collimation. (Level). [Azimuth].		Seconds of Transit corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow as a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896-0.																							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h	m	s	#	s					s"	s	s		h	m	s																				
																														s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s
1893	Apr. 18	1	γ Boötis	B	...	35.5	38.6	44.9	48.0	51.4	0.7	3.9	7.0	...	14. 27. 51.28	+ 4.71	51.48				5.00	14. 27. 56.46	- 3.07																										
		2	σ Boötis	B	49.6	52.6	55.5	1.1	4.0	6.8	15.3	18.0	20.9	23.9	14. 30. 6.80	(- 3.37)	7.03			[- 0.04]		14. 30. 12.01	- 2.88																										
		3	Lalande F. 2523..	B	8.5	22.5	37.6	5.4	20.1	34.8	17.6	31.8	46.2	0.7	14. 36. 34.66	[+ 4.29]	34.54					14. 36. 39.52	- 9.06																										
		4	109 Virginis	B	41.8	44.1	46.6	51.8	54.1	56.6	4.0	6.4	9.0	11.5	14. 40. 56.61		56.99					14. 41. 1.97	- 2.63																										
		5	Groombridge 2152	B	40.4	43.7	46.9	53.1	56.2	59.5	8.8	12.0	15.1	18.1	14. 44. 59.41		59.61					14. 45. 4.59	- 2.99																										
		6	β Ursæ Minoris...	B	5.5	14.9	24.2	42.6	51.7	1.8	...	...	...	...	14. 51. 1.34		1.32					14. 51. 6.30	- 6.09																										
		7	Cephei 47 S.P. ...	B	...	...	...	26.1	5.1	18.3	31.5	...	...	...	14. 52. 5.12		5.37					2. 52. 10.35	+ 5.21																										
		8	Piazzi XIV. 274...	B	42.7	48.9	54.9	6.9	12.9	19.0	37.1	42.9	48.9	55.0	14. 58. 18.98		19.04					14. 58. 24.02	- 4.37																										
		9	Saturn 1 L.....	B	54.8	57.5	0.1	5.1	7.7	10.1	17.9	20.3	22.9	25.6	15. 1. 10.22																																		
		10	Saturn 2 L.....	B	56.2	58.9	1.4	6.2	8.9	11.5	19.2	21.9	24.2	26.9	15. 1. 11.55		11.38					15. 1. 16.35																											
		11	Bradley 445 S.P..	B	43.0	48.9	54.5	0.5	18.3	24.2	30.2	42.0	48.0	53.9	15. 8. 18.29		18.40					3. 8. 23.37	+ 1.46																										
		12	Bradley 448 S.P..	B	8.0	14.0	20.0	26.0	43.5	49.6	55.6	7.2	13.1	19.1	15. 10. 43.55		43.66					3. 10. 48.63	+ 1.43																										
		13	α Libræ	B	54.2	56.7	59.4	4.2	7.6	9.6	17.1	19.7	22.2	24.9	15. 15. 9.52		10.03					15. 15. 15.00	- 2.65																										
		14	7 Serpentis	B	9.7	12.1	14.8	19.8	22.2	24.9	32.4	34.9	37.5	40.0	15. 17. 24.85		25.17					15. 17. 30.14	- 2.59																										
		15	ζ Libræ	B	5.0	7.5	10.1	15.3	18.0	20.4	28.1	30.6	33.3	36.0	15. 22. 20.46		20.97	26.04	5.07			15. 22. 25.94	- 2.66																										
		16	Uranus 1 L.	B	11.2	13.8	...	...	...	26.8	...	...	40.0	42.4	15. 24. 26.86																																		
		17	Uranus 2 L.	B	...	...	16.8	22.0	24.6	...	35.0	37.6	...	...	15. 24. 27.23																																		
		18	α Coronæ	B	57.9	0.5	3.3	8.9	11.7	14.4	22.8	25.4	28.2	30.9	15. 30. 14.43		14.68	19.67	4.99			15. 30. 19.65	- 2.64																										
		19	κ Libræ	B	38.6	41.2	43.9	48.9	51.6	54.2	2.1	4.5	7.4	10.0	15. 35. 54.27		54.81					15. 35. 59.78	- 2.67																										
		20	ϵ Serpentis	B	36.1	38.8	41.5	46.7	49.4	52.1	0.0	2.4	5.1	7.9	15. 36. 52.03		52.31					15. 36. 57.28	- 2.56																										
		21	α Serpentis	B	50.8	53.4	55.9	0.7	3.2	5.8	13.2	15.6	18.1	20.5	15. 39. 5.74		6.10	11.20	5.10			15. 39. 11.07	- 2.53																										
	Apr. 19	22	$\odot$ 1 L.....	AC	51.5	54.1	56.6	1.8	4.2	6.5	...	...	...	...	1. 50. 6.70	+ 1.00	6.78				4.72†	1. 51. 16.69																											
		23	Spica	H	25.4	28.0	30.4	35.4	37.9	40.4	48.0	...	...	...	13. 19. 40.46		40.67	45.35	4.68	[- 0.07]		.....																											
		24	Polaris S.P.	H	22.1	29.1	34.4	52.0	59.9	5.7	...	...	...	...	13. 19. 25.09		38.39	43.57	5.18			.....																											
	Apr. 20	25	$\odot$ 1 L.....	S	35.6	38.1	40.6	45.4	48.0	50.7	58.4	0.8	3.4	5.9	1. 53. 50.71	+ 1.29	50.89				4.71	1. 55. 0.87																											
		26	δ 1 L.....	S	18.9	21.8	24.5	30.0	32.8	35.5	43.8	46.5	49.3	52.1	8. 4. 35.55	(- 2.75)	35.65			[- 0.04]		8. 5. 51.82																											
		27	β Cancri	S	34.1	36.6	39.1	44.1	46.7	49.2	56.6	59.3	1.7	4.2	8. 10. 49.18	[+ 5.52]	49.38	53.97	4.59			8. 10. 54.08	- 1.49																										
		28	α Ursæ Majoris...	S	5.5	10.4	15.6	26.0	31.0	36.1	51.4	56.5	1.6	6.7	8. 21. 36.13		35.80					8. 21. 40.50	- 2.92																										
		29	δ Hydræ	S	50.8	53.3	55.8	0.7	3.2	5.6	13.1	15.6	18.1	20.5	8. 32. 5.69		5.91					8. 32. 10.61	- 1.57																										
		30	γ Cancri	S	57.1	59.8	2.5	7.7	10.4	13.1	21.2	23.8	26.5	29.1	8. 37. 13.15		13.27	17.91	4.64			8. 37. 17.97	- 1.85																										
		31	ρ Hydræ	S	37.1	39.8	42.2	47.2	49.9	52.1	59.7	2.1	4.6	7.1	8. 42. 52.20		52.42					8. 42. 57.12	- 1.63																										
		32	ζ Hydræ	S	35.7	38.1	40.6	45.5	48.0	50.5	57.9	0.5	2.9	5.5	8. 49. 50.54		50.76					8. 49. 55.46	- 1.67																										
		33	ι Ursæ Majoris...	S	31.1	34.4	38.0	44.5	47.9	51.2	1.1	4.4	8.0	11.1	8. 53. 51.20		51.15					8. 53. 55.85	- 2.41																										
		34	κ Ursæ Majoris ...	S	7.6	11.3	15.0	22.1	26.0	29.7	40.6	44.1	48.0	51.7	8. 56. 29.65		29.55					8. 56. 34.25	- 2.62																										
		35	σ Ursæ Majoris ...	S	...	43.3	50.1	2.9	8.9	15.6	34.9	41.2	47.6	...	8. 59. 15.62		15.12					8. 59. 19.82	- 3.98																										
		36	ξ Cancri	S	4.0	6.6	9.4	14.6	17.4	20.0	28.0	30.6	33.4	36.1	9. 3. 20.03		20.13					9. 3. 24.82	- 2.01																										
		37	Groomb. 3409 S.P.	S	...	...	...	15.6	38.4	46.0	54.0	...	...	...	9. 5. 38.43		39.43					21. 5. 44.12	+ 1.87																										
		38	77 Draconis S.P..	S	...	...	...	24.6	36.4	48.0	10.7	22.7	34.0	...	9. 7. 24.59		26.07					21. 7. 30.76	+ 3.74																										
		39	38 Lynx (2nd Star)	S	1.6	4.6	7.8	13.9	17.0	20.1	29.4	32.4	35.6	38.8	9. 12. 20.15		20.14					9. 12. 24.83	- 2.40																										
		40	α Leonis	S	16.7	19.5	22.1	27.8	30.4	33.3	41.5	44.2	47.2	50.0	9. 18. 33.30		33.38					9. 18. 38.07	- 2.18																										
		41	h Ursæ Majoris...	S	46.0	51.5	57.4	8.1	13.9	19.5	36.0	41.7	47.1	52.8	9. 23. 19.45		19.06					9. 23. 23.75	- 3.86																										
		42	τ^2 Hydræ	S	22.8	25.2	27.9	32.7	35.1	37.6	44.9	47.5	50.1	52.5	9. 26. 37.65		37.92					9. 26. 42.61	- 1.77																										
		43	ϵ Hydræ	R.	14.5	16.9	19.4	24.2	26.8	29.3	36.6	39.1	41.5	44.0	9. 34. 29.25		29.74					9. 34. 34.43	- 1.81																										
		44	Groomb. 3561 S.P.	S	...	...	...	...	31.4	36.1	41.1	50.4	55.4	59.9	9. 39. 31.41		32.02					21. 39. 36.71	+ 0.84																										
		45	Groomb. 3590 S.P.	S	20.8	27.7	34.8	42.0	3.1	10.2	17.5	31.8	38.9	46.0	9. 45. 3.21		4.14					21. 45. 8.83	+ 2.18																										
		46	μ Leonis	B	31.9	34.6	37.4	42.8	45.6	48.4	56.6	59.5	2.1	4.9	9. 46. 48.41		48.49	53.27	4.78	4.83†		.....																											
		47	Piazzi XXI. 328 S.P.	S	...	...	...	...	48.8	54.0	59.3	9.4	14.3	19.5	9. 47. 48.86		49.53			4.71		21. 47. 54.22	+ 1.11																										
		48	Bradley 2871 S.P.	S	46.8	50.9	55.2	59.5	11.8	16.0	20.1	28.3	32.6	36.9	9. 51. 11.77		12.30					21. 51. 16.99	+ 0.56																										
		49	π Leonis	B	25.1	27.6	30.1	35.0	37.5	40.0	47.5	50.0	52.5	55.1	9. 54. 40.06		40.26	45.09	4.83	4.83†		.....																											
		50	Groomb. 3654 S.P.	S	...	...	...	10.0	25.6	31.3	36.5	...	...	...	9. 57. 25.80		26.49			4.71		21. 57. 31.18	+ 1.28																										
		51	Groomb. 3671 S.P.	S	19.6	25.6	31.6	37.4	55.4	1.3	7.4	19.3	25.3	31.2	9. 59. 55.35		56.13					22. 0. 0.82	+ 1.71																										
		52	Regulus	S	31.9	34.5	37.1	42.1	44.7	47.3	54.8	57.4	59.9	2.4	10. 2. 47.23		47.41	52.15	4.74			10. 2. 52.10	+ 2.15																										

For Nos. 1 to 21. Reading of Transit-Micrometer 35" 500.

Corrections for passage of Semidiameter, Nos. 22, 25, and 26, + 65" 20: + 65" 27: and + 71" 47.

22. Faint; cloudy.

24. Observed over wire Q with the transit-micrometer set to readings 35" 409, 35" 339, 35" 291, 35" 138, 35" 049, 35" 003.

25. Very faint; cloudy.

37. Very faint.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].							
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	s	h m s	s							
Apr. 20	1	Piazzi XXII. 4 S.P.	S	...	...	...	...	32.9	37.6	42.5	51.9	56.4	1.3	10. 3. 32.97	+ 1.29		33.59			4.71	22. 3. 38.28	+ 1.00	
	2	Piazzi XXII. 16 S.P.	S	53.3	58.1	2.7	7.5	21.4	26.2	30.9	40.3	45.1	49.9	10. 5. 21.49	(- 2.75)		22.11			[- 0.04]	22. 5. 26.80	+ 1.01	
	3	Groomb. 3730 S.P.	S	54.1	59.0	3.7	8.2	22.3	27.3	32.0	41.6	46.1	51.0	10. 11. 22.48	[+ 5.52]		23.10				22. 11. 27.79	+ 1.05	
	4	Piazzi XXII. 80 S.P.	S	...	...	...	...	57.8	10.9	15.6	20.1	...	...	10. 16. 11.06			11.63				22. 16. 16.32	+ 0.94	
	5	Oeltz. Arg. (N.) 12242 S.P.	S	...	...	...	...	...	...	46.6	2.1	10.1	18.1	10. 25. 30.77			31.80				22. 25. 36.49	+ 3.10	
	6	Groomb. 3847 S.P.	S	59.6	3.8	8.4	12.9	26.1	30.6	35.1	43.9	48.2	52.9	10. 34. 26.11			26.69				22. 34. 31.38	+ 1.04	
	7	Piazzi X. 126	S	...	...	...	...	24.2	31.5	38.7	59.9	...	...	10. 35. 38.65			38.06				10. 35. 42.75	- 5.49	
	8	Oeltz. Arg. (N.) 11122	S	...	...	29.4	41.8	47.7	53.8	11.6	17.6	...	...	10. 41. 53.71			53.26				10. 41. 57.95	- 4.85	
	9	Groomb. 3899 S.P.	S	57.0	1.2	5.4	9.6	22.5	26.7	31.1	39.3	43.9	48.0	10. 45. 22.43			22.98				22. 45. 27.67	+ 0.96	
	10	d Leonis	S	54.0	56.2	59.0	3.9	6.2	8.8	16.1	18.6	21.1	23.5	10. 55. 8.76			8.99	13.61	4.62		10. 55. 13.68	- 2.26	
	11	δ Leonis	S	16.2	18.9	21.5	26.7	29.3	32.0	...	...	...	...	11. 8. 32.05			32.51	37.25	4.74		11. 8. 37.20	- 2.58	
	12	Oeltz. Arg. (N.) 11669	S	...	...	...	...	21.5	27.0	43.2	48.6	54.1	59.6	11. 14. 27.02			26.65				11. 14. 31.34	- 4.66	
	13	79 Leonis	S	24.6	27.0	29.6	34.4	36.9	39.5	46.9	49.1	51.9	54.3	11. 18. 39.44			39.69				11. 18. 44.38	- 2.33	
	14	Bradley 3147 S.P.	S	55.2	3.1	10.3	17.4	26.0	38.2	46.0	54.1	1.3	8.1	11. 27. 11.80			16.99				23. 27. 21.68	+ 26.41	
	15	π Virginis	S	15.2	17.6	20.2	25.1	27.6	30.1	37.6	40.1	42.7	45.1	11. 55. 30.15			30.37	35.10	4.73		11. 55. 35.06	- 2.52	
	16	Groomb. 4232 S.P.	S	...	...	...	...	27.2	47.0	53.6	0.3	...	...	12. 0. 46.97			47.84				0. 0. 52.53	+ 2.83	
	17	3 Comæ	S	55.9	58.5	1.1	6.2	8.9	11.4	19.2	21.7	24.3	26.9	12. 5. 11.44			11.59				12. 5. 16.28	- 2.69	
	18	Piazzi XII. 20. R.	S	38.2	40.9	43.6	48.5	51.3	54.0	1.6	4.1	6.7	9.4	12. 9. 53.86			54.33				12. 9. 59.02	- 2.70	
	19	Bradley 23 S.P.	S	...	2.0	6.2	10.2	22.2	26.5	30.7	38.8	42.9	...	12. 19. 22.40			22.91				0. 19. 27.60	+ 1.11	
	20	δ Corvi	S	10.0	12.5	15.1	20.2	22.7	25.4	33.1	35.6	38.2	40.8	12. 24. 25.39			25.76				12. 24. 30.45	- 2.43	
	21	ε Corvi	S	10.8	13.3	16.0	21.0	23.5	26.1	34.0	36.6	39.2	41.9	12. 24. 26.27			26.64	31.34	4.70		12. 24. 31.33	- 2.43	
	22	B. D. + 13° No. 2636.	S	26.8	29.1	31.9	37.0	39.6	42.1	50.0	52.6	55.4	58.0	12. 33. 42.28			42.41				12. 33. 47.10	- 2.76	
	23	3 Comæ	S	54.6	57.5	0.3	5.9	8.9	11.7	20.0	22.8	25.6	28.2	12. 44. 11.58			11.65				12. 44. 16.34	- 2.95	
	24	ψ Virginis	S	39.1	41.6	44.1	49.1	51.8	54.1	1.6	4.1	6.5	9.3	12. 48. 54.15			54.47				12. 48. 59.16	- 2.52	
	25	δ Virginis	S	4.6	7.1	9.7	14.5	16.9	19.4	26.8	29.2	32.0	34.3	12. 50. 19.47			19.70	24.44	4.74		12. 50. 24.39	- 2.60	
	26	37 Comæ	S	58.8	1.6	4.5	10.3	13.2	16.1	24.8	27.9	30.5	33.6	12. 55. 16.16			16.20				12. 55. 20.89	- 3.03	
	27	Groombridge 1954	S	38.2	41.6	45.0	51.4	54.6	58.0	7.6	10.7	14.0	17.2	13. 0. 57.86			57.82				13. 0. 2.51	- 3.29	
	28	θ Virginis	WB	16.3	18.9	21.5	26.2	28.6	31.2	38.7	41.1	43.7	46.1	13. 4. 31.25			31.55	36.39	4.84	4.90	.....	.....	
	29	Spica	WB	25.1	27.5	30.1	35.0	37.6	40.1	47.7	50.1	52.6	55.1	13. 19. 40.11			40.44	45.35	4.91		.....	.....	
	30	Polaris S.P.	S	47.2	59.0	8.9	21.7	32.0	42.4	53.1	9.2	17.8	31.4	13. 19. 23.00			36.37	43.77	7.40	4.71	1. 19. 41.06	+ 70.08	
	31	Piazzi I. 176 S.P.	S	47.5	51.5	55.6	59.6	11.5	15.4	19.5	27.2	31.4	35.1	13. 44. 11.39	+ 0.92		11.93				1. 44. 16.62	+ 0.94	
	32	η Boötis	S	26.2	28.8	31.4	36.7	39.3	41.9	50.0	52.4	54.9	57.6	13. 49. 41.95			42.05	46.74	4.69		13. 49. 46.74	- 2.80	
	33	4 Persei S.P.	S	50.9	55.1	59.6	3.5	16.2	20.5	24.7	33.1	37.4	41.6	13. 55. 16.22			16.80				1. 55. 21.49	+ 1.05	
	34	94 Virginis	S	29.9	32.3	34.9	39.9	42.4	45.1	52.5	55.1	57.4	59.9	14. 0. 44.96			45.25	49.89	4.64		14. 0. 49.94	- 2.65	
	35	Bradley 282 S.P.	S	44.4	53.3	2.1	10.8	36.8	45.5	54.2	11.5	20.7	29.5	14. 3. 36.80			38.02				2. 3. 42.71	+ 3.68	
	36	Piazzi XIV. 12	S	42.8	45.3	48.0	52.7	55.1	57.7	5.1	7.6	10.0	12.4	14. 6. 57.69			57.91				14. 7. 2.60	- 2.67	
	37	Arcturus	S	37.1	39.8	42.3	47.6	50.2	52.9	0.9	3.4	6.0	8.7	14. 10. 52.92			53.03	57.80	4.77		14. 10. 57.72	- 2.77	
	38	Lalande 4258 S.P.	S	15.3	19.7	24.1	28.4	41.3	45.4	50.0	58.7	2.9	7.2	14. 13. 41.26			41.85				2. 13. 46.54	+ 1.03	
	39	Bradley 332 S.P.	S	...	...	...	...	3.2	22.1	28.6	34.8	...	...	14. 20. 22.12			23.01				2. 20. 27.70	+ 2.14	
	40	Lalande F. 404 S.P.	S	...	...	...	...	34.0	52.9	59.4	5.7	...	...	14. 20. 52.94			53.83				2. 20. 58.52	+ 2.13	
	41	Oeltz. Arg. (N.) 2766 S.P.	S	...	...	...	...	1.0	7.4	26.1	32.5	39.0	51.2	14. 21. 26.14			27.03				2. 21. 31.72	+ 2.13	
	42	Bradley 353 S.P.	S	21.4	29.0	36.5	44.2	7.0	14.8	22.7	37.9	45.7	53.3	14. 32. 7.18			8.26				2. 32. 12.95	+ 2.76	
	43	Oeltz. Arg. (N.) 2970 S.P.	S	...	...	...	...	42.9	50.9	58.5	13.6	21.3	29.0	14. 32. 43.12			44.20				2. 32. 48.89	+ 2.74	
	44	Groomb. 554 S.P.	S	1.1	5.6	10.3	...	...	...	...	46.0	50.5	54.9	14. 41. 28.03			28.67				2. 41. 33.36	+ 0.98	
	45	Groomb. 556 S.P.	S	...	...	...	...	30.6	44.0	48.7	53.0	...	...	14. 41. 44.04			44.68				2. 41. 49.37	+ 0.98	
	46	ε Libræ	S	50.1	52.6	55.1	0.0	2.4	5.2	12.6	15.1	17.7	20.2	14. 51. 5.12			5.42	10.08	4.66		14. 51. 10.11	- 2.67	
	47	Cephei 47 S.P.	S	...	...	...	...	...	...	16.9	30.0	56.4	9.6	22.1	14. 52. 4.37			6.14				2. 52. 10.83	+ 5.21
	48	Saturn 1 L.	S	22.1	24.8	27.4	32.3	34.9	37.6	45.1	47.7	50.2	52.8	15. 0. 37.51			38.49				15. 0. 43.17		
	49	Saturn 2 L.	S	23.5	26.1	28.5	33.6	36.2	38.9	46.4	49.0	51.6	54.0	15. 0. 38.80			59.19				15. 16. 3.87	- 2.69	
	50	Lalande 27966-7.	S	43.5	46.1	48.6	53.6	56.2	59.0	6.6	9.1	11.6	14.1	15. 15. 58.86			11.67	16.31	4.64		15. 17. 16.35	- 2.68	
	51	α Libræ	S	56.0	58.6	1.1	6.1	8.8	11.3	19.0	21.6	24.1	26.6	15. 17. 11.34			9.62				15. 24. 14.30		
	52	Uranus	S	...	56.1	58.9	4.0	6.6	9.3	17.1	19.5	22.2	...	15. 24. 9.24	+ 1.29		13.85				15. 24. 14.30		
	53	Groomb. 711 S.P.	S	30.6	37.8	44.9	51.9	13.1	19.9	27.1	40.9	48.3	55.4	15. 32. 12.92			13.85				3. 32. 18.53	+ 1.68	
	54	Oeltz. Arg. (N.) 3959 S.P.	S	31.4	38.2	45.6	52.5	13.6	20.7	27.6	41.7	48.9	56.1	15. 32. 13.56			14.49				3. 32. 19.17	+ 1.68	

For Nos. 31 to 51. Reading of Transit-Micrometer 35.610.

11. Very diffused; windy.

14. Observed over wire U with the transit-micrometer set to readings 37.159, 36.798, 36.790, 36.647, 36.438, 36.132, 35.970, 35.798, 35.622, 35.486.

30. Observed over wire V with the transit-micrometer set to readings 36.700, 36.585, 36.469, 36.368, 36.299, 36.217, 36.129, 35.983, 35.896, 35.788.

MO. & DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s															
1898.																					
Apr. 20	1	Groomb. 732 S.P.	S	56.5	0.5	4.3	8.1	20.2	24.1	28.1	36.0	40.0	44.0	15. 39. 20.14	+ 1.29	20.64			4.71	3. 39. 25.32	+ 0.32
	2	Groomb. 755 S.P.	S	15.9	19.9	23.8	28.0	40.1	44.0	48.0	56.1	0.2	4.4	15. 47. 40.00	(- 2.75)	40.51			[- 0.04]	3. 47. 45.19	+ 0.29
	3	γ Serpentis	S	21.2	23.6	26.2	31.4	34.0	36.6	44.1	46.8	49.4	52.0	15. 51. 36.55	[+ 5.52]	36.70	41.46	4.76		15. 51. 41.38	- 2.54
	4	Lalande 29156-8..	S	46.5	49.0	51.6	56.9	59.5	2.0	10.0	12.5	15.1	17.8	15. 57. 2.12		2.52				15. 57. 7.20	- 2.69
	5	Lalande 29185-6..	S	39.5	42.1	44.9	50.0	52.6	55.3	3.2	5.6	8.2	11.1	15. 57. 55.28		55.68				15. 58. 0.36	- 2.69
	6	β ¹ Scorpii	S	5.0	7.7	10.3	...	...	...	...	31.4	34.1	36.6	15. 59. 20.87		21.27	25.91	4.64		15. 59. 25.95	- 2.69
	7	β ² Scorpii	S	...	...	...	16.0	18.5	21.4	29.1	...	...	...	15. 59. 21.28		21.68				15. 59. 26.36	- 2.69
	8	Lalande 29244-5..	S	...	...	...	...	...	40.0	47.7	50.2	52.9	55.6	15. 59. 39.90		40.30				15. 59. 44.98	- 2.69
	9	Groombridge 2337	S	...	...	...	58.5	7.1	16.0	42.2	...	...	...	16. 16. 16.04		15.24				16. 16. 19.92	- 4.29
	10	Antares	S	42.9	45.5	48.3	54.0	56.7	59.5	7.7	10.2	13.2	16.0	16. 22. 59.43		59.89	4.49	4.60		16. 23. 4.57	- 2.75
	11	λ Ophiuchi	S	22.2	24.9	27.4	32.4	34.9	37.5	44.9	47.4	49.9	52.3	16. 25. 37.40		37.65	42.46	4.81		16. 25. 42.33	- 2.45
	12	Polaris	H	13.0	23.0	29.5	...	...	...	...	...	...	...	1. 19. 52.09		39.07	43.86	4.79	4.63	1. 19. 43.70	+ 69.99
Apr. 21	13	Aldebaran	H	37.4	39.9	42.4	47.8	50.1	52.7	0.4	3.1	5.6	8.2	4. 29. 52.78		52.93	57.45	4.52		4. 29. 57.55	- 0.36
	14	Sirius	H	14.2	16.7	19.3	24.4	27.1	29.6	37.2	40.0	42.4	45.0	6. 40. 29.62		29.99				6. 40. 34.61	- 0.62
	15	δ Cancri	H	...	...	...	38.2	40.9	43.6	51.4	54.0	56.5	59.2	8. 38. 43.57		43.71				8. 38. 48.33	- 1.79
	16	ε Hydrae	H	58.0	0.3	2.9	7.9	10.2	12.7	20.1	22.7	25.4	27.8	8. 41. 12.82		13.04	17.67	4.63		8. 41. 17.66	- 1.61
	17	δ i L.	H	44.8	47.5	50.1	55.5	58.0	0.7	8.8	11.3	14.0	16.8	9. 2. 0.78		0.92				9. 3. 15.74	- 1.63
	18	α Hydrae	H	10.2	12.7	15.2	20.1	22.6	25.3	32.6	35.1	37.8	40.1	9. 22. 25.19		25.51	30.20	4.69		9. 22. 30.12	- 1.76
	19	τ Hydrae	R.	...	25.0	27.6	32.3	34.9	37.5	44.7	47.2	49.8	...	9. 26. 37.40		37.89				9. 26. 42.50	- 2.06
	20	8 Leonis	H	...	2.6	5.3	...	...	15.6	...	25.8	28.5	...	9. 31. 15.58		15.73				9. 31. 20.34	- 1.80
	21	ι Hydrae	H	...	17.1	19.8	24.5	27.1	29.6	36.8	39.4	41.9	...	9. 34. 29.55		29.82				9. 34. 34.43	- 2.05
	22	ψ Leonis	H	46.0	48.5	51.2	56.1	58.8	1.3	8.9	11.5	14.0	16.5	9. 38. 1.30		1.47				9. 38. 6.08	- 2.05
	23	Lalande F. 4099 S.P.	H	...	...	...	...	48.7	6.7	25.2	0.7	18.9	38.1	10. 8. 48.76		51.01				22. 8. 55.62	+ 8.57
	24	γ ¹ Leonis	H	...	58.8	1.4	6.5	9.2	12.0	20.0	22.3	25.1	...	10. 14. 11.94		12.06	16.68	4.62		10. 14. 16.67	- 2.34
	25	Groomb. 3915 S.P.	H	53.4	57.1	1.2	4.9	16.2	20.1	24.0	31.5	35.7	39.4	10. 48. 16.31		16.80				22. 48. 21.41	+ 0.67
	26	Groomb. 3924 S.P.	H	...	...	...	...	...	...	51.3	0.2	5.3	9.9	10. 50. 42.06		42.66				22. 50. 47.27	+ 1.21
	27	Groomb. 3931 S.P.	H	...	...	22.0	26.3	40.2	45.0	49.5	58.9	...	...	10. 51. 40.28		40.88				22. 51. 45.49	+ 1.21
	28	δ Crateris	H	...	52.8	55.5	0.5	2.9	5.6	13.0	15.7	18.2	...	11. 14. 5.55		5.91	10.53	4.62		11. 14. 10.52	- 2.14
	29	δ Crateris... (E&E)	H	24.2	39.4	...	...	...	40.6	55.8	...	...	...	11. 14. 4.96		5.32				.....	.....
	30	W. B. XI. 365	H	...	...	...	...	0.0	2.6	10.0	12.4	14.9	17.3	11. 23. 2.56		2.80				11. 23. 7.41	- 2.36
	31	B. D. + 3° No. 2509	H	...	...	...	...	...	5.0	12.2	14.5	17.1	19.6	11. 24. 4.81		5.05				11. 24. 9.66	- 2.36
	32	Radcliffe 2724	H	...	56.4	0.1	7.1	10.5	14.2	24.9	28.2	31.9	...	11. 33. 14.19		14.10				11. 33. 18.71	- 3.40
	33	Groombridge 1812	H	...	57.6	1.2	8.0	11.6	15.3	26.0	29.3	32.9	...	11. 33. 15.29		15.20				11. 33. 19.81	- 3.38
	34	Oeltz. Arg. (N.) 11942	H	4.0	...	...	17.8	21.4	...	...	38.9	42.4	...	11. 33. 24.94		24.85				11. 33. 29.46	- 3.40
	35	Bradley 1672	H	35.2	44.0	53.7	14.6	22.0	47.2	55.8	4.7	28.2	39.2	12. 15. 21.32		11.97				12. 15. 16.58	- 54.93
	36	δ ² Corvi	H	13.5	16.0	18.7	23.9	26.3	29.0	36.5	39.1	41.8	44.2	12. 24. 28.93	- 35.81	26.74	31.34	4.60		12. 24. 31.35	- 2.43
	37	ρ Virginis	H	20.0	22.4	24.9	30.0	32.4	34.9	42.5	45.1	47.6	50.1	12. 36. 35.01	+ 1.29	35.20	39.85	4.65		12. 36. 39.81	- 2.66
	38	Polaris S.P.	H	53.8	5.9	13.9	33.1	40.0	46.0	2.0	10.2	22.7	39.1	13. 19. 28.49		41.86	43.96	2.10		1. 19. 46.47	+ 69.89
	39	Lalande 24909 ...	H	6.0	8.4	11.1	16.1	18.8	21.4	29.0	31.4	34.0	36.5	13. 22. 21.29		21.46				13. 22. 26.07	- 2.75
	40	Groomb. 335 S.P.	H	...	...	23.9	31.6	55.6	3.9	11.9	27.8	...	...	13. 29. 55.70		56.74				1. 30. 1.35	+ 3.53
	41	W. B. XIII. 595.	H	0.9	3.4	6.0	11.1	13.6	16.1	24.0	26.4	28.9	31.4	13. 37. 16.20		16.56				13. 37. 21.17	- 2.63
	42	ε Cassiopeiae S.P.	H	14.9	20.2	25.9	31.3	47.6	53.1	58.8	9.4	14.9	20.5	13. 46. 47.61		48.33				1. 46. 52.94	+ 1.86
	43	Lalande F. 2380..	H	...	...	...	...	...	48.7	3.2	19.0	33.4	13. 50. 4.51		2.99				13. 50. 7.60	- 10.29	
	44	τ Virginis	H	...	6.7	9.1	14.0	16.5	18.9	26.3	28.7	31.3	...	13. 56. 18.96		19.21	23.81	4.60		13. 56. 23.82	- 2.67
	45	τ Virginis... (E&E)	H	38.8	53.5	8.5	...	...	37.8	52.7	7.6	...	...	13. 56. 18.29		18.54	23.81	5.27		.....	.....
	46	Groombridge 2099	H	25.6	37.6	45.9	8.3	14.6	42.9	7.5	14.2	...	...	14. 0. 17.08		12.88				14. 0. 17.49	- 23.58
	47	Piazzi XIV. 212..	H	5.3	8.0	10.5	16.0	18.5	21.2	29.1	31.8	34.5	37.1	14. 51. 21.23		21.63				14. 51. 26.24	- 2.77
	48	Oeltz. Arg. (N.) 15013	H	...	...	...	49.1	1.1	13.0	48.3	59.9	12.1	23.5	14. 53. 13.03		11.87				14. 53. 16.48	- 7.38
	49	Saturn i L.	H	5.3	8.0	10.6	15.5	18.1	20.7	28.2	30.9	33.5	36.0	15. 0. 20.70						15. 0. 26.34	.....
	50	Saturn 2 L.	H	6.7	9.3	12.0	16.9	19.5	22.0	29.6	32.1	34.9	37.4	15. 0. 22.06						.....	.....
	51	ι Libræ	H	59.6	2.1	4.8	10.0	12.5	15.2	23.1	25.6	28.1	31.0	15. 6. 15.23		15.63	20.22	4.59		15. 6. 20.23	- 2.74
	52	Groombridge 2283	H	56.4	3.6	9.5	56.5	5.4	13.1	33.2	41.2	49.4	8.1	15. 11. 13.73		6.99				15. 11. 11.59	- 29.74

For No. 36. Reading of Transit-Micrometer 36.000.

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 29 and 45, — 5.07 and — 4.88.

Correction for passage of Semidiameter, No. 17, + 70.20.

12. Observed over wire T with the transit-micrometer set to readings 33.668, 33.770, 33.823.

31. Observed in dark field with wires illuminated.

35. Observed over wire T with the transit-micrometer set to readings 36.510, 36.598, 36.710, 36.980, 37.068, 37.381, 37.490, 37.580, 37.859, 38.018.

38. Observed over wire U with the transit-micrometer set to readings 34.492, 34.410, 34.320, 34.140, 34.101, 34.039, 33.919, 33.830, 33.731, 33.588.

46. Observed over wire T with the transit-micrometer set to readings 34.249, 34.570, 34.770, 35.352, 35.512, 36.267, 36.952, 37.131.

52. Observed over wire T with the transit-micrometer set to readings 35.300, 35.443, 35.550, 36.281, 36.450, 36.601, 36.930, 37.063, 37.200, 37.530.

17. Correction to R.A. on true meridian, + 0.01.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1960.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Apr. 21	1	o ² Libræ	H	56.0	58.6	1.2	6.1	8.7	11.3	19.0	21.6	24.1	26.8	15. 17. 11.36	+ 1.29	11.72	16.33	4.61	4.63	15. 17. 16.32	- 2.70	
	2	Uranus 1 L.	H	44.1	...	49.4	...	...	59.9	...	...	...	15.6	15. 23. 59.86	(- 2.75)	0.39			[- 0.04]	15. 24. 4.99		
	3	Uranus 2 L.	H	...	47.1	...	54.9	57.5	...	8.0	...	13.1	...	15. 24. 0.15	[+ 5.52]							
Apr. 22	4	⊙ 1 L.	B	4.0	6.4	8.9	14.0	16.5	19.0	26.7	29.2	31.8	34.2	2. 1. 19.09	[+ 6.59]	24.71	57.45	4.74	4.74	2. 2. 29.45		
	5	⊙ 2 L.	B	14.6	17.1	19.8	24.8	27.3	29.9	37.6	40.0	42.4	45.1	2. 3. 29.88								
	6	Aldebaran	B	6.2	21.8	37.1	39.5	42.1	...	...	...	23.3	38.9	4. 29. 52.52		52.71	57.45	4.74		4. 29. 57.46	- 0.36	
	7	Capella	B	34.8	38.1	42.0	48.9	52.4	56.0	6.7	10.1	13.8	17.3	5. 8. 56.04		55.96				5. 9. 0.71	- 0.52	
	8	β Tauri	B	22.0	24.6	27.4	33.1	36.0	38.6	47.1	49.9	52.7	55.6	5. 19. 38.73		38.82	43.64	4.82		5. 19. 43.57	- 0.63	
	9	α Orionis	B	13.2	15.6	18.1	23.1	25.6	28.1	35.8	38.1	40.5	42.9	5. 49. 28.12		28.38	33.13	4.75		5. 49. 33.13	- 0.68	
	10	β Aurigæ	B	29.1	32.5	36.1	43.1	46.4	50.0	0.5	4.0	7.5	11.0	5. 51. 50.05		49.98				5. 51. 54.73	- 0.88	
	11	γ Geminorum	B	22.7	25.2	28.0	33.0	35.6	38.2	46.0	48.5	51.1	53.7	6. 31. 38.22		38.41	43.17	4.76		6. 31. 43.16	- 0.97	
	12	Sirius	B	14.0	16.4	19.1	24.1	26.8	29.4	37.0	39.6	42.1	44.8	6. 40. 29.36		29.80				6. 40. 34.55	- 0.61	
	13	38 Lynceis (1st Star).	B	42.5	1.1	4.2	...	...	...	...	35.3	38.3	56.9	9. 12. 19.75		19.76				9. 12. 24.52	- 2.37	
	14	38 Lynceis (2nd Star).	B	...	...	7.6	13.8	16.9	20.0	29.3	32.3	...	...	9. 12. 20.01		20.02				9. 12. 24.78	- 2.37	
	15	α Lynceis	B	22.6	25.7	28.6	34.7	37.6	40.7	49.8	52.7	55.8	58.7	9. 14. 40.72		40.75				9. 14. 45.51	- 2.31	
	16	κ Leonis	B	...	19.3	22.0	27.7	30.3	33.1	41.3	44.1	46.9	...	9. 18. 33.12		33.24				9. 18. 38.00	- 2.15	
	17	α Hydræ	B	10.1	12.5	15.1	20.0	22.5	25.1	32.5	35.0	37.5	40.0	9. 22. 25.05		25.43	30.19	4.76		9. 22. 30.19	- 1.62	
	18	τ ² Hydræ	B	22.6	25.1	27.7	32.4	34.9	37.5	44.9	47.3	49.8	52.2	9. 26. 37.46		37.78				9. 26. 42.54	- 1.74	
	19	δ Leonis	B	...	2.4	5.1	10.2	12.7	15.4	23.1	25.8	28.2	...	9. 31. 15.39		15.58				9. 31. 20.34	- 2.04	
	20	ε Hydræ	R.	14.1	16.8	19.3	24.1	26.7	29.1	36.5	38.9	41.5	44.0	9. 34. 29.12		29.66				9. 34. 34.42	- 1.79	
	21	ε Leonis	B	38.0	40.6	43.4	48.7	51.6	54.2	2.2	5.0	7.8	10.5	9. 39. 54.23		54.36	59.11	4.75		9. 39. 59.12	- 2.22	
	22	Lalande F. 1479..	B	25.8	35.5	45.5	55.8	5.1	24.0	34.0	44.0	53.7	3.8	9. 43. 14.72		8.48				9. 43. 13.24	- 25.82	
	23	Lalande F. 1558..	B	...	...	...	...	...	...	14.1	29.9	45.5	1.4	9. 46. 28.03		26.20				9. 46. 30.96	- 9.24	
	24	Groombridge 3629 S.P.	B	50.9	56.9	2.7	8.5	26.4	32.4	38.2	49.9	55.9	1.8	9. 52. 26.30		27.23				21. 52. 31.99	+ 1.49	
	25	δ 1 L.	B	18.5	21.1	23.7	28.9	31.5	34.0	41.9	44.4	47.1	49.7	9. 57. 34.10		34.32				9. 58. 48.19		
	26	Piazzi XXII. 4 S.P..	B	4.6	9.1	14.0	18.7	32.8	37.6	42.2	51.7	56.3	1.1	10. 3. 32.76		33.50				22. 3. 38.26	+ 0.91	
	27	Groombridge 3693 S.P.	B	...	...	...	...	...	...	36.9	41.9	46.5	16.9	10. 5. 16.69		17.48				22. 5. 22.24	+ 1.11	
	28	Groombridge 3715 S.P.	B	...	51.2	56.1	0.7	14.9	19.7	24.2	33.8	38.6	...	10. 8. 14.85		15.59				22. 8. 20.35	+ 0.96	
	29	Groombridge 3730 S.P.	B	54.0	58.5	3.3	8.0	22.2	27.3	31.7	41.2	45.9	50.7	10. 11. 22.23		22.97				22. 11. 27.73	+ 0.99	
	30	Groombridge 3758 S.P.	B	36.6	41.0	45.5	50.0	3.5	8.2	12.6	21.5	26.1	30.5	10. 19. 3.51		4.21				22. 19. 8.97	+ 0.90	
	31	Groombridge 3781 S.P.	B	11.5	18.4	25.3	32.2	53.3	0.2	7.5	21.2	28.5	35.4	10. 22. 53.28		54.37				22. 22. 59.13	+ 2.43	
	32	ρ Leonis	B	2.2	4.8	7.3	12.1	14.8	17.4	24.9	27.3	29.9	32.4	10. 27. 17.33		17.58	22.30	4.72		10. 27. 22.34	- 2.20	
	33	41 Leonis Min. R.	B	26.8	29.4	32.1	37.5	40.1	42.9	...	...	...	...	10. 37. 42.90		43.39				10. 37. 48.15	- 2.50	
	34	β Sextantis	B	...	...	28.0	33.1	35.6	38.0	45.6	47.9	...	...	10. 40. 38.05		38.32				10. 40. 43.08	- 2.22	
	35	ι Leonis	B	29.7	...	34.8	39.8	42.2	44.8	52.2	54.8	...	59.9	10. 43. 44.81		45.05	49.74	4.69		10. 43. 49.81	- 2.30	
	36	ν Hydræ	B	...	...	...	21.2	23.8	26.3	34.0	36.7	39.2	41.9	10. 44. 26.41		26.84				10. 44. 31.60	- 1.96	
	37	β Ursæ Majoris...	B	6.3	10.9	15.4	24.3	28.9	33.6	47.1	51.5	56.1	0.5	10. 55. 33.50		33.24				10. 55. 38.00	- 3.93	
	38	α Ursæ Majoris...	B	46.9	52.1	57.5	8.1	13.5	18.7	34.8	40.0	45.4	50.6	10. 57. 18.81		18.42				10. 57. 23.18	- 4.44	
	39	ψ Ursæ Majoris...	B	26.5	30.1	33.6	40.6	44.1	47.5	58.0	1.6	5.0	8.5	11. 3. 47.58		47.51				11. 3. 52.27	- 3.25	
	40	α Comæ	B	...	...	...	...	...	...	4.0	6.5	9.1	24.7	13. 4. 53.60		53.78				13. 4. 58.54	- 2.78	
	41	β Comæ	B	...	...	...	53.7	56.4	59.5	7.7	10.3	13.3	16.1	13. 6. 59.31		59.40				13. 7. 4.16	- 2.94	
	42	Bradley 163 S.P..	B	21.3	31.1	41.4	51.0	...	...	...	...	...	...	13. 13. 20.99		22.50				1. 13. 27.26	+ 4.85	
	43	Spica	B	25.1	27.6	30.1	35.2	37.7	40.1	47.8	50.2	52.8	55.3	13. 19. 40.21		40.60	45.36	4.76		13. 19. 45.36	- 2.59	
	44	Polaris S.P.	B	44.9	56.1	7.7	18.3	29.9	18.6	28.0	40.4	52.0	3.5	13. 19. 23.94		39.41	44.16	4.75		.....		
	45	Lacaille 5580 ...	B	28.9	31.6	34.6	40.2	42.8	45.7	54.1	56.9	59.5	2.6	13. 26. 45.72		46.27				13. 26. 51.03	- 2.66	
	46	Lalande 25168 ...	B	9.6	12.1	14.7	19.8	22.2	24.9	32.4	34.9	37.5	40.0	13. 32. 24.83		25.25				13. 32. 30.01	- 2.62	
	47	Groombridge 2030	B	5.1	9.5	14.2	23.4	28.1	32.9	46.6	51.1	56.0	0.4	13. 36. 32.78		32.50				13. 36. 37.26	- 4.16	
	48	Groombridge 2035	B	19.8	25.6	31.8	44.0	50.0	56.0	14.0	20.0	26.0	32.0	13. 38. 55.98		55.49				13. 39. 0.25	- 5.02	
	49	Lalande F. 2380..	B	35.5	50.0	5.2	34.8	49.2	4.3	48.6	3.2	18.8	33.5	13. 50. 4.46		2.73				13. 50. 7.49	- 10.27	
	50	4 Persei S.P.	B	50.8	54.9	59.2	3.4	16.0	20.2	24.2	32.8	36.9	41.2	13. 55. 15.92		16.56				1. 55. 21.32	+ 1.03	
	51	Groombridge 2099	B	39.1	46.9	54.8	1.9	9.4	24.7	32.8	40.4	47.7	55.3	14. 0. 17.30		12.48				14. 0. 17.24	- 23.57	
	52	δ Boötis	R.	47.6	4.1	20.4	23.1	26.0	...	...	...	...	...	14. 5. 36.92		37.42				14. 5. 42.18	- 2.89	
	53	δ Boötis	B	...	...	...	...	48.3	51.0	53.8	10.1	26.6	14. 5. 37.37		37.49					14. 5. 42.25	- 2.89	

Correction for passage of Semidiameter, No. 25, + 69".10.

6. Very faint; cloudy. Observed over wires M, N, O, P, Q, Y and Z.

22. Observed over wire T with the transit-micrometer set to readings 34".600, 34".800, 35".000, 35".200, 35".400, 35".800, 36".000, 36".200, 36".400, 36".600.

25. Correction to R.A. on true meridian, + 0".01.

33, 34, 35, 37, 38, 39. Cloudy.

44. Observed over wire T with the transit-micrometer set to readings 37".000, 36".900, 36".800, 36".700, 36".600, 34".600, 34".500, 34".400, 34".300, 34".200.

51. Observed over wire T with the transit-micrometer set to readings 34".600, 34".800, 35".000, 35".200, 35".400, 35".800, 36".000, 36".200, 36".400, 36".600.

52. Observed over wires M, N, O, P and Q.

13. Observed over wires N, O, P, W, X and Y.

27. Observed over wires Q, P, O and N.

40. Observed over wires V, W, X and Y.

53. Observed over wires V, W, X, Y and Z.

20. Windy.

29. Very faint.

MONTH.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Level].						[Azimuth].			
															h	m						s		
																							h		m	s
Apr. 22	1	7-yr. Cat. 1860 No. 154 S.P.	B	43.8	50.1	56.5	2.8	21.6	28.0	34.1	46.8	53.1	59.4	14. 20. 21.56	+ 1.29	22.55			4.74	2. 20. 27.31	+ 2.11			
	2	7-yr. Cat. 1860 No. 156 S.P.	B	45.2	51.3	58.0	4.1	22.9	29.4	35.8	48.2	54.4	0.8	14. 20. 22.95	(- 2.75)	23.94			[+ 0.04]	2. 20. 28.70	+ 2.11			
	3	5 Ursæ Minoris R.	B	44.7	55.0	5.1	25.8	36.0	46.5	...	...	...	...	14. 27. 46.53	[+ 6.59]	46.84				14. 27. 51.60	- 7.07			
	4	5 Ursæ Minoris ...	B	...	...	...	...	...	...	...	19.0	29.0	39.8	49.6	14. 27. 48.08		46.97				14. 27. 51.73	- 7.07		
	5	Lalande F. 2523 R.	B	...	22.2	37.5	5.5	20.0	...	...	...	...	...	...	14. 36. 34.55		34.76				14. 36. 39.52	- 9.11		
	6	Lalande F. 2523 ...	B	...	...	...	...	...	...	...	19.2	33.6	48.0	2.1	14. 36. 36.27		34.60				14. 36. 39.36	- 9.11		
	7	Oeltz. Arg. (N.) 3187 S.P.	B	...	...	...	...	18.5	22.6	...	35.8	40.1	44.3	14. 42. 18.35		19.04					2. 42. 23.80	+ 0.89		
	8	Oeltz. Arg. (N.) 3195 S.P.	B	...	...	...	...	57.5	1.9	6.0	14.7	19.0	23.4	14. 42. 57.35		58.04					2. 43. 2.80	+ 0.89		
	9	η Persei S.P.	B	...	...	...	...	0.2	4.4	8.9	17.5	22.0	26.2	14. 43. 0.13		0.82					2. 43. 5.58	+ 0.89		
	10	Oeltz. Arg. (N.) 15013	B	2.2	14.0	26.0	49.4	0.9	12.9	48.0	59.9	11.9	23.4	14. 53. 12.98		11.67					14. 53. 16.43	- 7.40		
	11	Oeltz. Arg. (N.) 15017	B	33.6	45.0	...	20.4	32.0	44.1	19.1	...	42.6	54.1	14. 53. 43.95		42.65					14. 53. 47.41	- 7.35		
	12	Saturn 1 L.	B	48.2	50.8	53.5	58.5	0.9	3.4	11.1	13.6	16.2	18.9	15. 0. 3.53										
	13	Saturn 2 L.	B	49.5	52.1	54.8	59.8	2.2	4.9	12.4	14.9	17.5	20.1	15. 0. 4.84		4.61					15. 0. 9.38			
	14	c Boötis ...	B	25.5	28.0	30.9	36.4	39.1	42.0	50.0	52.7	55.4	58.1	15. 2. 41.84		41.96					15. 2. 46.73	- 2.78		
	15	B.D.+25° No. 2874	B	...	...	...	...	...	...	9.0	11.8	28.2	44.5	15. 2. 55.44		55.56					15. 3. 0.33	- 2.77		
	16	Bradley 445 S.P.	B	...	...	...	...	17.9	23.7	29.7	41.4	47.4	53.1	15. 8. 17.82		18.75					3. 8. 23.52	+ 1.46		
	17	Bradley 448 S.P.	B	7.8	13.5	19.7	25.5	43.2	49.0	55.0	6.5	12.4	18.3	15. 10. 43.03		43.96					3. 10. 48.73	+ 1.44		
	18	Lalande 27966-7..	B	43.3	45.9	48.3	53.5	56.1	58.7	6.2	8.9	11.5	14.0	15. 15. 58.66		59.08					15. 16. 3.85	- 2.72		
	19	α Libræ	B	...	...	...	6.1	8.6	11.1	18.8	21.3	24.0	26.3	15. 17. 11.17		11.59	16.35	4.76			15. 17. 16.36	- 2.72		
	20	Piazzi XV. 71	B	...	1.5	4.0	9.4	12.0	14.7	22.6	25.1	28.0	...	15. 22. 14.69		15.16					15. 22. 19.93	- 2.77		
	21	Uranus 1 L.	B	34.6	37.1	...	...	...	50.2	...	...	3.4	6.0	15. 23. 50.28							15. 23. 55.68			
	22	Uranus 2 L.	B	...	...	40.1	45.4	48.0	...	58.5	1.0	...	...	15. 23. 50.63										
	23	ψ Persei S.P.	B	38.1	41.6	45.3	49.1	0.2	4.0	7.5	14.8	18.4	22.2	15. 29. 0.08		0.63					3. 29. 5.40	+ 0.28		
	24	40 Libræ	B	56.6	...	2.2	...	10.8	13.9	...	...	28.0	30.5	15. 32. 13.69		14.26					15. 32. 19.03	- 2.89		
	25	δ Persei S.P.	B	4.0	7.3	10.9	14.5	25.5	29.3	32.9	40.0	43.9	47.4	15. 35. 25.53		26.08					3. 35. 30.85	+ 0.22		
	26	ι Serpentis	B	...	...	...	...	49.8	52.4	0.2	2.9	5.6	8.2	15. 36. 52.44		52.60					15. 36. 57.37	- 2.63		
	27	Groomb. 752 S.P.	B	28.7	32.5	36.8	40.7	52.9	56.9	0.9	8.9	12.9	16.9	15. 46. 52.77		53.39					3. 46. 58.16	+ 0.29		
	28	Groomb. 755 S.P.	B	...	...	...	...	40.0	43.6	47.8	56.0	59.9	4.0	15. 47. 39.75		40.37					3. 47. 45.14	+ 0.29		
	29	W. B. XV. 945 ...	B	0.2	2.7	5.3	10.3	12.9	15.6	23.1	25.8	28.3	30.9	15. 52. 15.53		15.95					15. 52. 20.72	- 2.68		
	30	Lalande 29156-8..	B	46.2	48.7	51.4	56.5	59.2	2.0	9.6	12.1	14.9	17.5	15. 57. 1.84		2.31					15. 57. 7.08	- 2.73		
	31	Lalande 29185-6..	B	39.3	42.0	44.6	49.8	52.3	55.0	2.8	5.5	8.0	10.8	15. 57. 55.04		55.51					15. 58. 0.28	- 2.73		
	32	β ¹ Scorpii	B	4.9	7.5	10.2	15.4	18.1	20.7	...	...	...	...	15. 59. 20.67		21.14	25.95	4.81			15. 59. 25.91	- 2.73		
	33	Lalande 29244-5..	B	24.0	26.7	29.3	...	...	39.7	...	50.1	52.8	55.5	15. 59. 39.75		40.22					15. 59. 44.99	- 2.73		
	34	Piazzi XVI. 3 ...	B	37.6	40.2	42.9	48.0	50.8	53.3	1.3	3.7	6.2	8.8	16. 5. 53.30		53.76					16. 5. 58.53	- 2.71		
	35	ν Scorpii	B	38.9	41.4	44.0	49.2	52.0	54.4	2.3	4.8	7.5	10.1	16. 5. 54.49		54.95					16. 5. 59.72	- 2.71		
	36	δ Ophiuchi	B	36.2	38.6	41.2	46.1	48.6	51.1	58.4	0.9	3.4	5.9	16. 8. 51.06		51.40	56.18	4.78			16. 8. 56.17	- 2.56		
	37	Antares	B	42.7	45.5	48.2	53.7	56.3	59.1	7.5	10.2	13.0	15.9	16. 22. 59.23		59.77	4.54	4.77			16. 23. 4.54	- 2.80		
	38	Antares ... (E&E)	B	12.5	29.1	45.5	2.0	18.6	34.8	51.6	...	...	...	16. 22. 59.17		59.71	4.54	4.83			.....			
	39	λ Ophiuchi	B	22.7	25.2	27.8	32.5	35.1	37.5	44.9	47.3	49.9	52.2	16. 25. 37.53		37.83	42.50	4.67			16. 25. 42.60	- 2.49		
	40	ζ Ophiuchi	B	8.1	10.7	13.1	18.1	20.6	23.2	30.6	33.1	35.9	38.2	16. 31. 23.18		23.57	28.41	4.84			16. 31. 28.34	- 2.57		
	41	ζ Ophiuchi (E&E)	B	40.7	55.9	11.0	26.0	41.0	56.2	11.2	...	...	...	16. 31. 23.16		23.55	28.41	4.86			.....			
	42	ζ Herculis	B	2.0	4.9	7.9	13.7	16.5	19.4	28.1	31.0	34.0	37.0	16. 37. 19.48		19.54	24.31	4.77			16. 37. 24.31	- 2.41		
	43	ζ Herculis (E&E)	B	30.0	47.5	4.7	22.2	39.9	57.0	14.5	...	...	...	16. 37. 19.42		19.48	24.31	4.83			.....			
Apr. 23	44	⊙ 1 L.	AC	...	51.5	54.0	59.0	...	4.1	11.9	14.2	16.8	19.3	2. 5. 4.16	(- 3.15)				4.90	2. 6. 14.64				
	45	⊙ 2 L.	AC	...	...	...	10.1	12.5	...	...	...	45.5	0.7	2. 7. 15.11	[+ 3.98]	9.73			[+ 0.07]					
	46	κ Orionis	AC	...	...	...	...	...	44.8	52.1	54.7	57.4	0.0	5. 42. 44.82		45.04	49.86	4.82		5. 42. 49.96	- 0.45			
	47	α Orionis R.	AC	12.9	15.4	17.9	22.9	25.3	27.8	35.3	37.7	40.2	42.8	5. 49. 27.84		28.26	33.12	4.86		5. 49. 33.18	- 0.67			
	48	δ Ursæ Min. S.P. ...	AC	23.8	30.0	37.1	44.0	9.1	17.2	41.3	49.1	...	...	6. 5. 43.82		48.00				18. 5. 52.92	- 3.28			
	49	γ Geminorum ...	AC	22.9	25.3	28.0	33.1	35.6	38.2	46.0	...	...	...	6. 31. 38.26		38.33	43.16	4.83		6. 31. 43.25	- 0.96			
	50	Sirius	AC	13.8	16.6	18.9	24.1	26.6	29.4	37.2	39.6	42.1	44.9	6. 40. 29.35		29.62				6. 40. 34.54	- 0.59			
	51	ο Leonis	DE	18.0	20.4	23.0	28.0	30.4	33.0	40.5	43.0	45.6	48.1	9. 35. 33.02		33.13	37.92	4.79	4.76	.....				
52	ο Leonis ... (E&E)	DE	49.4	4.4	...	...	...	4.6	19.8	...	...	...	9. 35. 32.86		32.97	37.92	4.95		.....					

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 38, 41, 43, and 52, — 2^h.86 : — 2^h.86 : — 2^h.86 : and — 1^h.72.

15. Observed over wires W, X, Y and Z.

24. Cloudy.

45. Observed over wires R, S, Y and Z.

48. Observed over wire T with the transit-micrometer set to readings 36^h.095, 35^h.948, 35^h.762, 35^h.597, 34^h.986, 34^h.779, 34^h.212, 34^h.042.

1998G00MM.584...1C

[584]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1860.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
Apr. 23	1	ε Leonis.....	DE	38.0	40.7	43.5	48.8	51.6	54.2	2.4	5.1	7.9	10.5	9. 39. 54.30	+ 1.29	54.31	59.10	4.79	4.76	.....	
	2	ε Leonis ....(E&E)	DE	7.1	23.3	...	...	...	28.4	44.5	...	...	...	9. 39. 54.14	(- 3.15)	54.15	59.10	4.95	[+ 0.07]	.....	
	3	15 Cephei S.P.	AC	55.1	59.9	4.8	9.6	...	29.1	33.8	43.4	48.4	53.1	10. 0. 24.08	[+ 3.98]	24.54	...	...	4.90	22. 0. 29.47	+ 0.92
	4	Regulus.....	AC	32.0	34.3	37.1	42.0	44.5	47.1	54.6	57.1	59.9	2.3	10. 2. 47.11		47.20	52.11	4.91	...	10. 2. 52.13	- 2.11
	5	Groomb. 3698 S.P.	AC	...	51.6	56.8	1.6	16.5	21.9	26.8	36.8	42.0	...	10. 5. 16.70		17.19	...	...	...	22. 5. 22.12	+ 1.06
	6	Bradley 1399	AC	...	...	...	51.8	18.9	46.1	8.1	...	...	...	10. 14. 46.49		43.91	...	...	...	10. 14. 48.84	- 16.19
	7	45 Leonis	AC	51.5	54.0	56.4	1.5	4.0	6.6	14.0	16.5	19.1	21.6	10. 22. 6.54		6.65	...	...	...	10. 22. 11.58	- 2.18
	8	ρ Leonis.....	AC	2.2	4.7	7.1	12.1	14.7	17.4	24.9	27.4	29.9	32.2	10. 27. 17.28		17.39	22.29	4.90	...	10. 27. 22.32	- 2.19
	9	δ 1 L.	AC	38.1	40.5	43.1	48.1	50.7	53.2	0.9	3.4	6.0	8.5	10. 51. 53.27		53.40	...	...	...	10. 53. 6.90	
	10	76 Leonis	AC	16.9	19.5	22.0	26.9	29.4	32.0	39.3	41.8	44.1	46.6	11. 13. 31.87		32.02	...	...	...	11. 13. 36.95	- 2.29
	11	79 Leonis	AC	24.2	26.9	29.4	34.1	36.7	39.2	46.6	49.1	51.6	54.1	11. 18. 39.21		39.36	...	...	...	11. 18. 44.29	- 2.30
	12	Bradley 3147 S.P.	AC	46.4	53.4	59.0	4.6	28.6	34.8	40.5	46.6	...	...	11. 27. 13.75		18.09	...	...	...	23. 27. 23.02	+ 25.71
	13	ν Leonis	H	20.0	22.5	24.8	30.0	32.4	34.8	42.2	44.6	47.1	49.6	11. 31. 34.82		34.99	39.70	4.71	4.71	.....	
	14	β Leonis	H	...	30.1	32.8	37.8	40.2	43.0	50.7	53.2	55.9	...	11. 43. 42.98		43.05	47.81	4.76	...	.....	
	15	β Leonis ... (E&E)	H	...	13.3	28.6	...	59.4	14.9	...	...	...	...	11. 43. 42.53		42.60	47.81	5.21	...	.....	
	16	π Virginis	HA	15.1	17.5	20.0	24.9	27.6	30.0	37.5	40.0	42.3	44.9	11. 55. 30.00		30.13	35.08	4.95	4.90	.....	
	17	ο Virginis	HA	37.1	39.6	42.1	47.1	49.8	52.1	59.8	2.1	4.7	7.1	11. 59. 52.17		52.28	57.19	4.91	...	.....	
	18	3 Comæ	AC	55.7	58.3	0.8	6.0	8.5	11.1	18.9	21.5	24.1	26.7	12. 5. 11.19		11.25	...	...	4.90	12. 5. 16.19	- 2.67
	19	6 Comæ	R.	25.2	27.9	30.2	35.6	38.1	40.6	48.2	50.8	53.5	56.0	12. 10. 40.63		41.06	...	...	...	12. 10. 46.00	- 2.66
	20	Bradley 1672.....	AC	37.5	47.8	56.9	4.3	15.4	24.1	38.0	45.8	55.5	2.8	12. 15. 20.41		12.40	...	...	...	12. 15. 17.34	- 54.28
	21	δ ² Corvi	AC	10.8	13.2	15.9	21.0	23.4	26.0	33.8	36.1	38.8	41.5	12. 24. 26.08		26.33	31.33	5.00	...	12. 24. 31.27	- 2.42
	22	B. D. + 73° No. 22 S.P.	AC	...	...	36.2	43.9	10.7	19.8	28.8	46.6	...	...	12. 27. 10.91		11.81	...	...	...	0. 27. 16.75	+ 4.24
	23	Groombridge 1909	AC	...	...	4.7	35.9	50.9	6.8	53.1	8.2	...	...	12. 31. 6.75		5.32	...	...	...	12. 31. 10.26	- 11.31
	24	Groomb. 127 S.P.	AC	41.6	48.7	56.2	3.4	25.0	32.4	39.8	54.1	1.9	8.9	12. 37. 25.13		25.87	...	...	...	0. 37. 30.81	+ 3.20
	25	σ Virginis	AC	3.9	6.2	8.9	13.6	16.1	18.8	26.1	28.6	31.1	33.6	13. 12. 18.71		18.84	...	...	...	13. 12. 23.78	- 2.67
	26	Spica	AC	24.9	27.5	30.1	35.1	37.7	40.0	47.7	50.1	52.7	55.2	13. 19. 40.12		40.35	45.37	5.02	...	13. 19. 45.29	- 2.60
	27	Polaris S.P.	AC	10.0	18.2	25.5	34.9	44.4	51.7	58.1	6.2	14.9	22.4	13. 19. 29.84		41.12	44.39	3.27	...	1. 19. 46.06	+ 69.46
	28	Groomb. 322 S.P.	AC	36.5	41.9	47.1	52.5	8.9	14.1	19.6	30.2	36.0	41.4	13. 24. 8.77		9.30	...	...	...	1. 24. 14.24	+ 1.87
	29	ζ Virginis	AC	6.2	8.7	11.2	16.1	18.5	21.1	28.5	31.0	33.6	35.9	13. 29. 21.10		21.27	26.19	4.92	...	13. 29. 26.21	- 2.64
	30	54 Andromedæ S.P.	AC	39.3	42.9	46.9	50.9	2.4	6.2	10.1	17.8	21.8	25.4	13. 37. 2.33		2.68	...	...	...	1. 37. 7.62	+ 0.84
	31	τ Boötis	AC	1.4	4.0	6.7	11.9	14.2	17.0	24.8	27.2	30.0	32.4	13. 42. 16.99		17.04	21.96	4.92	...	13. 42. 21.98	- 2.80
	32	ε Cassiopeiæ S.P.	AC	14.6	20.1	25.9	...	...	...	8.9	14.5	20.0	...	13. 46. 47.28		47.82	...	...	...	1. 46. 52.76	+ 1.82
	33	Carrington 274 S.P.	AC	...	...	26.9	44.8	37.8	55.9	13.9	49.0	...	...	13. 49. 37.88		39.70	...	...	...	1. 49. 44.64	+ 9.23
	34	50 Cassiopeiæ S.P.	AC	...	44.5	52.3	0.1	...	32.1	39.6	55.7	4.0	...	13. 54. 23.95		24.76	...	...	...	1. 54. 29.70	+ 3.27
	35	τ Virginis	AC	...	...	...	...	...	26.1	28.6	31.0	33.5	35.9	13. 56. 18.73		18.88	23.82	4.94	...	13. 56. 23.82	- 2.68
	36	Lalande F. (2) 177	AC	35.0	52.3	10.2	45.5	3.8	21.4	16.6	32.4	52.0	10.0	13. 59. 22.09		20.41	...	...	...	13. 59. 25.35	- 11.95
	37	δ Boötis	AC	20.8	23.4	26.2	31.6	34.2	37.1	45.5	48.1	50.9	53.8	14. 5. 37.19		37.21	...	...	...	14. 5. 42.15	- 2.90
	38	14 Boötis	AC	47.5	50.0	52.5	57.6	0.2	2.7	10.4	12.9	15.4	18.0	14. 9. 2.74		2.83	...	...	...	14. 9. 7.77	- 2.75
	39	λ Boötis	AC	...	...	...	...	...	35.1	38.7	42.2	46.0	14. 12. 24.40		24.24	...	...	...	14. 12. 29.18	- 3.40	
	40	20 Boötis	AC	...	...	...	42.4	45.1	47.9	55.5	58.0	0.5	3.0	14. 14. 47.71		47.78	...	...	...	14. 14. 52.72	- 2.78
	41	W. B. (2) XIV. 413	AC	3.6	6.1	8.8	14.0	16.8	19.3	...	...	...	...	14. 21. 19.31		19.36	...	...	...	14. 21. 24.30	- 2.81
	42	f Boötis	AC	...	...	...	29.5	32.1	34.9	...	45.4	47.9	50.5	14. 21. 34.84		34.89	39.88	4.99	...	14. 21. 39.83	- 2.79
	43	ε ² Boötis	AC	8.0	10.6	13.5	19.0	21.6	24.5	32.9	35.6	38.4	41.3	14. 40. 24.57		24.57	29.53	4.96	...	14. 40. 29.51	- 2.86
	44	Groombridge 2152	AC	41.0	44.0	47.2	53.6	56.6	0.0	9.2	12.2	15.4	18.5	14. 44. 59.80		59.74	...	...	...	14. 45. 4.68	- 3.04
	45	ξ ² Libræ	AC	49.6	52.2	54.8	59.7	2.2	4.9	12.3	14.8	17.4	20.0	14. 51. 4.81		5.04	10.12	5.08	...	14. 51. 9.98	- 2.71
	46	Oeltz. Arg. (N.) 15017	AC	32.9	44.5	56.8	19.9	31.9	43.3	18.9	30.1	42.1	53.8	14. 53. 43.53		42.47	...	...	...	14. 53. 47.41	- 7.37
	47	Saturn 1 L.	AC	31.1	33.6	36.1	41.3	43.9	46.3	54.0	56.5	59.1	1.6	14. 59. 46.37		47.30	...	...	...	14. 59. 52.24	
	48	Saturn 2 L.	AC	32.4	34.9	37.6	42.5	45.2	47.9	55.5	57.9	0.3	2.9	14. 59. 47.73		8.38	...	...	...	15. 11. 13.32	- 30.00
	49	Groombridge 2283	AC	33.4	40.0	45.3	54.6	23.9	30.0	37.2	46.0	...	...	15. 11. 14.18		48.44	...	...	...	3. 16. 53.38	+ 0.40
	50	α Persei S.P.	AC	25.4	29.3	33.0	36.7	48.0	52.0	56.0	3.2	7.0	10.9	15. 16. 48.11		41.28	...	...	...	15. 23. 46.22	
	51	Uranus 1 L.	AC	...	...	30.7	36.0	38.5	...	49.0	51.6	...	...	15. 23. 41.19		39.70	44.51	4.81	4.81	1. 19. 44.51	+ 69.34
	52	Uranus 2 L.	AC	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	[- 0.04]	
	53	Polaris	D	26.4	42.0	59.6	15.9	26.2	42.6	6.0	13.5	21.2	17.4	1. 19. 50.82		...	...	...	...	...	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 2 and 15, — 1^h.72 and — 1^h.55.Correction for passage of Semidiameter, No. 9, + 68^h.569. Correction to R.A. on true meridian, + 0^h.01.12. Observed over wire X with the transit-micrometer set to readings 35^h.783, 35^h.614, 35^h.516, 35^h.385, 34^h.841, 34^h.679, 34^h.549, 34^h.403.20. Observed over wire U with the transit-micrometer set to readings 33^h.551, 33^h.675, 33^h.786, 33^h.881, 34^h.005, 34^h.132, 34^h.288, 34^h.390, 34^h.515, 34^h.595.27. Observed over wire U with the transit-micrometer set to readings 35^h.434, 35^h.362, 35^h.301, 35^h.210, 35^h.114, 35^h.055, 35^h.021, 34^h.922, 34^h.845, 34^h.794.49. Observed over wire Q with the transit-micrometer set to readings 35^h.897, 36^h.001, 36^h.077, 36^h.235, 36^h.742, 36^h.845, 36^h.964, 37^h.110.53. Observed over wire P with the transit-micrometer set to readings 33^h.540, 33^h.676, 33^h.824, 33^h.970, 34^h.053, 34^h.221, 34^h.416, 34^h.457, 34^h.550, 35^h.023.

1896
MAY
DAY

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Reduc- tion to Mean R.A. 1896-c.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].								
s	s	s	s	s	s	s	s	s	s	h	m	s	s	s	s	s	h	m	s	s				
Apr. 24	1	⊙ 1 L.....	D	34'3	36'9	39'5	44'6	47'1	49'8	57'4	59'9	2'4	5'1	2. 8. 49'72	+ 1'29	} 55'32				4'81	[- 0'04]	2. 10. 0'13		
	2	⊙ 2 L.....	D	45'5	48'1	50'6	55'5	58'2	0'7	8'2	10'9	13'4	16'0	2. 11. 0'73	(- 3'15)					4'95		4. 29. 57'54	- 0'36	
	3	Aldebaran	B	37'1	39'7	42'2	47'3	50'0	52'5	0'2	2'7	5'4	8'0	4. 29. 52'53	[+ 3'98]		52'60	57'45	4'85	4'81		5. 49. 33'25	- 0'66	
	4	α Orionis	D	13'3	15'9	...	...	...	...	...	...	40'7	43'3	5. 49. 28'32			28'45	33'11	4'66	4'81		7. 33. 52'65	- 1'16	
	5	Procyon.....	B	32'7	35'1	37'8	42'5	45'1	47'6	54'9	57'5	0'0	2'4	7. 33. 47'58			47'71	52'71	5'00	4'95		7. 38. 58'62	- 1'50	
	6	Pollux	B	...	39'6	42'4	48'0	50'8	53'6	2'1	4'9	7'8	...	7. 38. 53'68			53'68	58'64	4'96	4'81		9. 22. 30'14	- 1'59	
	7	α Hydræ	D	10'1	12'6	15'2	20'1	22'6	25'2	32'6	35'1	37'6	40'1	9. 22. 25'14			25'35	30'16	4'81	4'81		9. 39. 59'11	- 2'20	
	8	ε Leonis	D	...	...	...	...	...	...	2'3	5'1	7'9	10'5	9. 39. 54'31			54'32	59'09	4'77	4'86		10. 2. 52'03	- 2'10	
	9	Regulus.....	D	32'0	34'4	37'1	42'1	44'6	47'2	54'7	57'3	59'7	2'2	10. 2. 47'15			47'24	52'10	4'86	4'95		10. 13. 12'57	- 5'02	
	10	Piazzi X. 26	D	26'2	33'5	40'6	54'1	1'3	8'2	29'4	36'1	43'3	50'0	10. 13. 8'34			7'78			4'81		10. 43. 49'71	- 2'28	
	11	ι Leonis.....	B	29'6	32'0	34'7	39'7	42'1	44'6	52'2	54'7	57'3	59'8	10. 43. 44'69			44'78	49'72	4'94	4'81		11. 8. 37'30	- 2'55	
	12	δ Leonis.....R.	D	16'1	18'8	21'5	26'8	29'5	32'1	...	...	...	...	11. 8. 32'08			32'51	37'22	4'71	4'81		11. 13. 36'93	- 2'28	
	13	76 Leonis	D	17'1	19'6	22'2	...	...	32'1	...	41'8	44'2	46'8	11. 13. 31'99			32'14					11. 18. 44'37	- 2'30	
	14	79 Leonis	D	24'5	27'1	29'6	34'4	36'9	39'4	46'9	49'3	51'8	54'2	11. 18. 39'43			39'58					11. 47. 16'77	- 2'42	
	15	δ 1 L.....	D	47'8	50'2	52'9	57'9	0'4	3'1	10'6	13'1	15'6	18'1	11. 46. 2'99			3'16					12. 24. 31'27	- 2'47	
	16	δ 2 Corvi	D	10'8	13'4	16'0	21'1	23'7	26'1	33'9	36'3	39'1	41'6	12. 24. 26'23			26'48	31'33	4'85	4'88		12. 28. 27'06	- 2'69	
	17	21 Virginis	D	7'0	9'6	12'0	17'1	19'6	22'0	29'5	32'0	34'5	37'1	12. 28. 22'06			22'27			4'88		1. 4. 52'86	+ 2'10	
	18	ε Virginis	D	42'5	45'0	47'7	52'6	55'1	57'9	5'2	7'8	10'2	12'8	12. 56. 57'70			57'79	2'67	4'88			1. 19. 43'11	+ 69'17	
	19	32 Cassiopeiae S.P.	D	13'1	19'1	24'5	30'6	...	53'4	59'0	10'4	16'0	21'9	13. 4. 47'50			48'07							
	20	Polaris S.P.	D	30'7	31'9	3'2	20'5	35'9	4'1	13'8	29'5	53'0	9'9	13. 19. 27'04			38'32	44'68	6'36					
Apr. 26	21	Pollux	B	36'9	39'7	42'6	48'0	50'9	53'8	2'1	4'9	7'8	10'6	7. 38. 53'76	(- 3'83)	} 53'77	58'61	4'84		4'78	[- 0'04]	7. 38. 58'54	- 1'47	
	22	τ Leonis.....	B	17'9	20'2	22'8	27'7	30'1	32'6	40'0	42'5	45'1	47'4	11. 22. 32'65	[+ 6'15]		32'87	37'62	4'75	4'78		11. 22. 37'63	- 2'32	
	23	W. B. XI. 349 ...	B	18'4	21'0	23'5	28'3	30'9	33'3	40'7	43'3	45'8	48'2	11. 22. 33'36			33'58					11. 23. 38'34	- 2'32	
	24	W. B. XI. 365 ...	B	...	50'0	52'5	57'5	0'0	2'4	10'0	12'2	14'8	...	11. 23. 2'45			2'67					11. 23. 7'43	- 2'32	
	25	W. B. XI. 368 ...	B	...	...	...	18'8	21'2	23'9	31'2	33'6	36'1	38'5	11. 23. 23'78			24'00					11. 23. 28'76	- 2'32	
	26	β Leonis	W	...	30'2	32'8	37'9	40'4	43'1	50'7	53'1	55'8	...	11. 43. 43'02			43'14	47'79	4'65	4'72		.....		
	27	β Virginis	W	...	...	...	9'1	11'6	14'0	21'6	23'9	26'5	28'9	11. 45. 14'11			14'34	19'06	4'72			.....		
	28	π Virginis	B	15'2	17'7	20'1	25'1	27'6	30'1	37'5	40'0	42'6	45'1	11. 55. 30'12			30'31	35'07	4'76	4'78		11. 55. 35'07	- 2'49	
	29	10 Cassiopeiae S.P.	B	21'2	26'8	32'4	37'9	54'5	0'0	5'8	16'5	22'2	27'8	12. 0. 54'46			55'35					0. 19. 27'81	+ 0'95	
	30	Bradley 23 S.P....	B	...	...	...	10'5	22'5	26'6	30'4	38'6	42'7	46'7	12. 19. 22'44			23'05					0. 27. 16'33	+ 4'09	
	31	B. D. +73° No. 22 S.P.	B	16'9	25'6	34'8	43'2	10'2	19'2	28'3	45'8	54'7	3'6	12. 27. 10'14			11'57					0. 29. 42'65	+ 1'52	
	32	Groomb. 95 S.P....	B	...	...	...	...	37'1	42'0	47'1	56'6	1'7	...	12. 29. 37'12			37'89					0. 30. 30'98	+ 1'52	
	33	Groomb. 99 S.P....	B	...	...	...	6'1	10'9	25'3	30'4	35'3	45'0	...	12. 30. 25'45			26'22					0. 31. 32'17	+ 1'52	
	34	Groomb. 104 S.P..	B	57'4	2'1	7'1	12'0	26'6	31'7	36'5	46'1	51'3	56'1	12. 31. 26'64			27'41					0. 32. 34'93	+ 1'52	
	35	Groomb. 108 S.P..	B	0'2	4'9	10'0	14'8	29'5	34'2	39'1	48'9	54'0	58'9	12. 32. 29'40			30'17					0. 34. 42'16	+ 1'52	
	36	Oeltz Arg. (N.) 603 S.P.	B	7'4	12'1	17'2	22'1	36'8	41'5	46'2	56'1	1'3	6'1	12. 34. 36'63			37'40					12. 50. 24'53	- 2'60	
	37	ε Virginis	B	4'9	7'3	9'6	14'5	17'0	19'6	26'9	29'4	31'9	34'3	12. 50. 19'56			19'77	24'44	4'67	4'78		0. 56. 36'94	+ 1'67	
	38	Groomb. 216 S.P..	B	...	...	...	10'9	16'0	31'5	36'3	41'8	52'0	...	12. 56. 31'37			32'18					0. 57. 16'04	+ 1'40	
	39	Groomb. 221 S.P..	B	...	...	...	...	10'4	15'3	20'0	29'4	34'1	38'8	12. 57. 10'54			11'28					13. 4. 21'18	- 2'57	
	40	50 Virginis	B	1'0	3'5	6'1	11'1	13'6	16'1	23'7	26'1	28'5	31'1	13. 4. 16'10			16'42					1. 17. 25'20	+ 5'35	
	41	35 Cassiopeiae S.P.	B	26'8	32'5	38'1	43'9	0'8	6'4	12'0	23'4	29'0	34'6	13. 14. 0'69			1'59					13. 21. 13'29	- 2'62	
	42	Groomb. 296 S.P.	B	12'2	23'1	34'5	45'6	18'8	30'0	41'0	3'1	14'2	25'2	13. 17. 18'66			20'44					1. 26. 48'40	- 2'69	
	43	Polaris S.P.	B	49'0	4'0	9'0	14'0	19'3	29'5	33'5	39'1	44'4	54'7	13. 19. 23'65			40'79	45'48	4'69			13. 29. 26'26	- 2'65	
	44	W. B. XIII. 297..	B	53'1	55'5	58'1	3'1	5'6	8'1	15'8	18'2	20'8	23'3	13. 21. 8'18			8'53					1. 26. 26'96	+ 1'46	
	45	Groomb. 315 S.P..	B	...	...	...	...	21'4	26'2	31'4	40'7	45'9	50'7	13. 22. 21'44			22'20					13. 26. 48'40	- 2'69	
	46	Piazzi XIII. 112..	B	26'1	28'9	31'9	37'5	40'1	43'2	51'6	54'4	57'3	0'0	13. 26. 43'13			43'64					13. 29. 26'26	- 2'65	
	47	ζ Virginis	B	...	...	...	11'3	16'2	18'8	21'3	28'7	31'1	...	13. 29. 21'25			21'50	26'20	4'70	4'72		13. 40. 18'52		
	48	m Virginis.....	W	51'9	54'1	56'8	1'6	4'1	6'6	14'1	16'6	19'1	21'7	13. 36. 6'68			7'00	11'74	4'74	4'78		13. 50. 7'63	- 10'18	
	49	δ 1 L.....	B	45'8	48'2	51'0	56'2	58'9	1'6	9'5	12'1	14'9	17'5	13. 39. 1'60			1'98					13. 56. 23'77	- 2'70	
	50	Lalande F. 2380 ..	B	49'9	57'2	4'9	12'4	20'0	...	...	...	...	...	13. 50. 4'88			2'87					14. 0. 36'57	- 2'87	
	51	τ Virginis	B	4'0	6'4	8'8	13'9	16'3	18'8	26'1	28'6	31'1	33'6	13. 56. 18'78			19'01	23'84	4'83			14. 5. 12'30	- 2'72	
	52	θ Centauri.....	B	12'8	16'0	18'9	25'0	28'1	31'3	40'4	43'3	46'6	49'5	14. 0. 31'22			31'81							
	53	Piazzi XIII. 317..	B	51'8	54'2	56'9	2'0	4'6	7'2	14'9	17'3	19'9	22'5	14. 5. 7'16			7'54							

Corrections for passage of Semidiameter, Nos. 15 and 49, + 68"81 and + 71"76.

3. Very faint; hazy.

20. Observed over wire U with the transit-micrometer set to readings 35°770, 35°190, 34°446, 34°258, 34°134, 33°830, 33°786, 33°649, 33°443, 33°290.

43. Observed over wire T with the transit-micrometer set to readings 35°905, 35°765, 35°721, 35°680, 35°640, 35°545, 35°515, 35°472, 35°430, 35°330.

49. Correction to R.A. on true meridian, + 0°02.

50. Observed over wire T with the transit-micrometer set to readings 34°600, 35°100, 35°600, 36°100, 36°600.

15. Correction to R.A. on true meridian, + 0°01.

52. Very diffused and unsteady.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896°.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
1899 Apr. 26	1	κ Virginis	B	3'4	5'9	8'3	13'3	16'0	18'3	26'0	28'2	30'9	33'3	14. 7. 18'38	+ 1'29	18'70	23'49	4'79	4'78	14. 7. 23'46	- 2'71
	2	χ Persei S.P.	B	11'6	16'1	20'6	25'2	38'8	43'5	48'0	56'9	1'7	6'1	14. 10. 38'81	(- 3'83)	39'51		[- 0'04]	2. 10. 44'27	+ 1'11	
	3	Groombridge 2126	B	50'5	1'7	12'9	35'2	46'6	57'9	31'5	42'6	53'9	4'9	14. 25. 57'88	[+ 6'15]	56'40			14. 26. 1'16	- 7'59	
	4	Groombridge 2128	B	...	4'1	15'4	37'5	48'4	59'6	33'1	43'9	55'1	...	14. 26. 59'75		58'30			14. 27. 3'06	- 7'50	
	5	Groombridge 2140	B	52'2	3'1	14'0	36'0	47'0	58'1	31'0	42'0	53'0	4'0	14. 31. 58'15		56'69			14. 32. 1'45	- 7'39	
	6	Piazzi XIV. 150..	B	57'2	0'2	3'3	9'2	12'2	15'4	24'2	27'4	30'5	33'2	14. 37. 15'31		15'89			14. 37. 20'65	- 2'98	
	7	ε Boötis	B	8'1	10'9	13'6	19'1	22'0	24'8	33'1	35'9	38'8	41'4	14. 40. 24'80		24'82	29'56	4'74	14. 40. 29'58	- 2'89	
	8	8 Libræ	B	38'1	40'6	43'4	48'3	51'1	53'5	1'4	3'9	6'3	8'9	14. 44. 53'57		53'95			14. 44. 58'71	- 2'77	
	9	α Libræ	B	49'8	52'1	54'8	0'0	2'5	4'9	12'6	15'1	17'7	20'3	14. 45. 5'00		5'38	10'18	4'80	14. 45. 10'14	- 2'77	
	10	α Coronæ	J	58'2	1'1	4'0	9'4	12'1	15'1	23'3	26'1	28'8	31'6	15. 30. 15'00		15'02	19'79	4'77	.....	.....	
	11	α Serpentis	J	51'3	53'9	56'4	1'2	3'8	6'2	13'9	16'2	18'8	21'3	15. 39. 6'32		6'51	11'33	4'82	.....	.....	
Apr. 27	12	34 Sextantis	AC	57'5	0'0	2'5	7'5	10'0	12'4	19'9	22'2	24'8	27'3	10. 37. 12'43	+ 1'15	12'63	17'36	4'73	4'81		
	13	Groomb. 3865 S.P.	AC	...	...	...	...	32'1	36'7	40'8	...	53'3	57'3	10. 38. 32'19	(- 4'01)	32'89		[- 0'06]	22. 38. 37'67	+ 0'65	
	14	Groomb. 4055 S.P.	AC	...	2'0	6'0	...	23'1	...	...	39'8	44'1	...	11. 19. 22'97	[+ 6'41]	23'67			23. 19. 28'45	+ 0'89	
	15	ν Leonis	R.	19'4	22'0	24'4	29'3	31'9	34'1	...	...	...	...	11. 31. 34'27		34'85	39'67	4'82	.....	.....	
	16	δ 2 L.	AC	...	...	13'9	...	...	...	33'1	...	38'4	41'4	14. 42. 24'87		25'31			14. 41. 16'22	.....	
	17	α Andromedæ ...	RC	...	42'0	44'9	50'3	53'2	56'0	4'4	7'2	10'1	...	0. 2. 56'04		56'04	0'66	4'62	4'63	0. 3. 0'67	- 0'04
	18	γ Cassiopeïæ ...	RC	...	...	...	10'1	15'0	20'0	35'1	...	...	...	0. 50. 20'10		19'58		[- 0'07]	0. 50. 24'21	+ 1'51	
	19	β Andromedæ ...	RC	31'6	...	...	...	...	...	...	1'5	4'7	26'0	1. 3. 49'68		49'60	54'21	4'61	1. 3. 54'23	+ 0'22	
	20	Venus 2 L.	RC	22'9	25'3	27'9	32'8	35'2	37'7	45'1	47'7	50'1	52'7	1. 13. 37'76		37'95			1. 13. 42'19	.....	
	21	Polaris	RC	12'2	19'0	24'9	30'2	35'6	52'6	58'8	4'7	12'0	17'5	1. 20. 0'65		42'50	46'24	3'74	1. 19. 47'13	+ 67'61	
	Apr. 28	22	⊙ 1 L.	RC	41'1	43'7	46'1	51'3	53'9	56'4	4'0	6'5	9'1	11'8	2. 23. 56'41		56'53			2. 25. 6'98	
23		Mercury 1 L.	RC	...	...	...	8'4	10'9	13'6	...	...	26'8	...	3. 10. 13'64		13'72			3. 10. 18'53	.....	
24		Sirius	RC	14'1	16'6	19'2	...	...	29'6	...	39'9	42'4	45'0	6. 40. 29'56		29'94			6. 40. 34'55	- 0'52	
25		Procyon	W	33'0	35'5	37'9	42'8	45'3	48'0	55'4	57'9	0'1	2'6	7. 33. 47'87		48'07	52'65	4'58	4'63		
26		Pollux	W	37'1	39'9	...	...	...	54'0	2'2	5'1	8'0	10'7	7. 38. 53'94		53'94	58'58	4'64	.....	.....	
27		Regulus	RC	32'2	34'6	37'2	42'1	44'8	47'4	54'9	57'5	0'0	2'4	10. 2. 47'33		47'46	52'05	4'59	4'63	10. 2. 52'06	- 2'05
28		Groomb. 3711 S.P.	RC	...	...	...	...	49'6	58'9	8'1	26'1	...	...	10. 5. 49'75		51'32			22. 5. 55'92	+ 2'92	
29		Piazzi XXII. 61 S.P.	RC	...	...	...	...	35'1	39'7	44'1	53'1	57'6	2'1	10. 12. 35'12		35'86			22. 12. 40'46	+ 0'59	
30		Groomb. 3758 S.P.	RC	...	...	45'9	50'2	3'8	8'3	12'9	21'9	...	...	10. 19. 3'79		4'53			22. 19. 9'13	+ 0'64	
31		Piazzi XXII. 103 S.P.	RC	24'8	28'4	32'5	36'3	48'0	52'0	56'0	3'8	7'6	11'6	10. 20. 48'06		48'69			22. 20. 53'29	+ 0'30	
32		Groomb. 3806 S.P.	RC	...	...	...	...	59'6	7'1	14'2	28'3	35'7	42'8	10. 26. 59'97		1'20			22. 27. 5'80	+ 2'15	
33		Groomb. 3842 S.P.	RC	...	...	3'4	10'4	31'8	38'9	46'2	0'1	...	...	10. 32. 31'73		32'96			22. 32. 37'56	+ 2'22	
34		Groomb. 3872 S.P.	RC	...	...	41'0	45'2	58'5	2'9	7'2	16'0	...	...	10. 38. 58'43		59'15			22. 39. 3'75	+ 0'72	
35		Groomb. 3897 S.P.	RC	...	...	...	25'9	42'0	47'5	52'8	...	...	...	10. 44. 42'00		42'91			22. 44. 47'51	+ 1'31	
36		Groomb. 3924 S.P.	RC	...	...	...	...	41'9	46'5	...	...	5'4	9'9	10. 50. 42'07		42'85			22. 50. 47'45	+ 0'92	
37		Groomb. 3950 S.P.	RC	42'1	46'1	50'6	54'9	...	12'0	16'2	24'8	29'2	33'1	10. 56. 7'62		8'33			22. 56. 12'93	+ 0'74	
38		Groomb. 3990 S.P.	RC	11'4	16'1	20'9	25'6	40'2	45'2	50'0	59'4	4'4	9'2	11. 2. 40'19		41'01			23. 2. 45'61	+ 1'11	
39		Groomb. 4021 S.P.	RC	...	...	...	...	57'0	6'4	15'8	34'3	43'9	53'0	11. 9. 57'03		58'64			23. 10. 3'24	+ 3'85	
40		Groomb. 4044 S.P.	RC	20'8	25'4	30'0	34'5	48'5	53'1	57'8	7'1	11'6	16'2	11. 15. 48'45		49'23			23. 15. 53'83	+ 1'06	
41		Groomb. 4058 S.P.	RC	37'0	41'4	45'9	50'1	3'3	7'6	12'0	20'5	25'0	29'4	11. 20. 3'18		3'90			23. 20. 8'50	+ 0'91	
42		β Virginis	RC	59'5	2'0	4'3	9'3	11'8	14'2	21'7	24'0	26'5	29'0	11. 45. 14'25		14'47	19'05	4'58	11. 45. 19'07	- 2'41	
43		π Virginis	RC	15'4	17'9	20'2	25'2	27'9	30'2	37'9	40'1	42'7	45'1	11. 55. 30'28		30'46	35'06	4'60	11. 55. 35'06	- 2'48	
44		ο Virginis	RC	37'4	40'0	42'5	47'4	50'0	52'4	59'9	2'2	4'9	7'4	11. 59. 52'43		52'59	57'17	4'58	11. 59. 57'19	- 2'51	
45		Piazzi XII. 20 ...	RC	38'9	41'5	44'0	49'1	51'8	54'3	2'1	4'6	7'3	10'0	12. 9. 54'39		54'48			12. 9. 59'07	- 2'66	
46		Bradley 1672	RC	44'0	52'5	0'6	9'2	18'0	24'9	33'3	46'1	58'0	7'2	12. 15. 24'61		11'53			12. 15. 16'12	- 51'92	
47		Polaris S.P.	RC	46'7	58'5	8'0	30'5	39'5	56'4	20'0	29'5	0'9	10'2	13. 19. 24'26		42'77	46'52	3'75	1. 19. 47'36	+ 67'33	
48		ζ Virginis	RC	6'5	9'0	11'5	16'2	18'9	21'3	28'8	31'1	33'7	36'1	13. 29. 21'33		21'57	26'21	4'64	13. 29. 26'16	- 2'66	
49		m Virginis	RC	52'0	54'4	56'9	1'9	4'2	6'9	14'3	16'8	19'3	21'9	13. 36. 6'88		7'19	11'76	4'57	13. 36. 11'78	- 2'66	
50	Bradley 282 S.P.	RC	44'4	53'0	2'0	...	36'6	...	...	11'1	20'2	28'7	14. 3. 36'50		38'01			2. 3. 42'60	+ 3'51		
51	χ Persei S.P.	RC	...	...	...	25'5	39'0	43'7	48'1	...	...	...	14. 10. 39'04		39'80			2. 10. 44'39	+ 1'08		
52	Bradley 316 S.P.	RC	...	...	...	...	...	44'2	48'8	...	2'1	33'8	14. 11. 39'73		40'47			2. 11. 45'06	+ 1'05		

Corrections for passage of Semidiameter, Nos. 16, 20, 22, and 23, — 73°·88 : — 0°·39 : + 65°·83 : and + 0°·19.

6. Very diffused and unsteady.
17. Very faint and unsteady.
21. Observed over wire P with the transit-micrometer set to readings 34°·890, 34°·969, 35°·008, 35°·070, 35°·111, 35°·251, 35°·316, 35°·382, 35°·420, 35°·460.
22, 23. Cloudy.
46. Observed over wire T with the transit-micrometer set to readings 35°·116, 35°·211, 35°·323, 35°·415, 35°·518, 35°·603, 35°·697, 35°·842, 36°·011, 36°·113.
47. Observed over wire Q with the transit-micrometer set to readings 36°·760, 36°·640, 36°·556, 36°·374, 36°·281, 36°·130, 35°·933, 35°·854, 35°·569, 35°·500.
52. Observed over wires S, R, P and N.
16. Correction to R.A. on true meridian, + 0°·02.
19. Cloudy. Observed over wires O, V, W and Y.
- 16, 36. Very faint; cloudy.

Mo. for Reference.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit over the Centre Wire.	Tabular R.A. of Known Stars.	Clock apparently slow.	Adopted Clock slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre of Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Apr. 28	1	Piazzii II. 36 S.P.	RC	...	...	...	...	...	58.0	6.9	11.4	15.9	14. 11. 48.94	+ 1.15	49.68				4.63	2. 11. 54.27	+ 1.05
	2	Carrington 2171	RC	...	...	18.6	34.4	50.5	38.1	...	...	...	14. 26. 50.55	(- 4.01)	48.18				[- 0.07]	14. 26. 52.77	- 10.11
	3	Parthenope	RC	...	...	48.8	53.9	56.1	58.6	6.2	8.6	...	14. 32. 58.72	[+ 6.41]	59.02					14. 33. 3.61	
	4	Lalande F. 2523	RC	...	...	...	...	...	19.6	33.6	48.2	2.2	14. 36. 36.44		34.33					14. 36. 38.92	- 9.11
	5	Oeltz. Arg. (N.) 3187 S.P.	RC	...	...	5.7	18.7	23.0	27.3	...	...	...	14. 42. 18.64		19.36					2. 42. 23.95	+ 0.83
	6	Oeltz. Arg. (N.) 3195 S.P.	RC	...	...	44.1	57.5	2.0	6.3	...	...	...	14. 42. 57.44		58.16					2. 43. 2.75	+ 0.84
	7	Saturn 1 L.	RC	4.5	6.8	9.7	14.7	17.2	19.9	27.4	30.0	32.4	34.9	14. 58. 19.77						14. 58. 25.34	
	8	Saturn 2 L.	RC	5.6	8.1	10.8	15.9	18.6	20.9	28.7	31.1	33.9	36.2	14. 58. 21.00						15. 5. 55.89	- 4.16
	9	Groombridge 2197	RC	...	...	29.8	40.9	46.2	52.0	8.4	13.9	...	...	15. 10. 18.99		51.30				15. 10. 24.02	- 2.88
	10	Piazzii XV. 19	RC	3.0	5.6	8.4	13.6	16.2	19.0	27.0	29.7	32.2	34.9	15. 17. 11.61		19.43				15. 17. 15.17	- 5.14
	11	12 Ursæ Minoris	RC	...	...	...	...	...	35.0	42.5	50.7	58.3	15. 22. 52.85		10.58					15. 22. 57.98	
	12	Uranus 1 L.	RC	37.2	...	42.5	...	...	...	...	3.2	...	8.4	15. 22. 52.85						15. 34. 10.73	- 2.91
	13	Uranus 2 L.	RC	...	...	...	47.9	50.5	53.1	0.9	...	...	...	15. 22. 53.13		53.39				15. 45. 25.77	- 5.48
	14	42 Libræ	RC	49.5	52.1	54.9	0.3	2.9	5.6	13.9	16.5	19.1	21.9	15. 34. 5.70		6.15				16. 25. 42.55	- 2.61
	15	D 2 L.	RC	19.3	22.0	24.9	30.7	33.4	36.1	44.8	47.6	50.4	53.3	15. 46. 36.28		36.76					
	16	Oeltz. Arg. (N.) 15854	RC	...	...	7.1	17.5	...	...	...	37.9	48.4	...	15. 56. 57.81		56.38					
	17	λ Ophiuchi	RC	22.9	25.4	27.9	32.8	35.3	37.7	45.2	47.5	50.1	52.5	16. 25. 37.75		37.97	42.62	4.65			
	18	Venus 1 L.	HA	55.3	57.6	0.2	5.3	7.6	10.3	17.6	20.2	22.7	25.3	1. 18. 10.20	(- 3.12)				4.66		
	19	Venus 2 L.	HA	56.1	58.4	1.0	6.0	8.3	11.0	18.2	20.9	23.3	26.0	1. 18. 10.94	[+ 5.75]	10.77			[- 0.02]	1. 18. 15.43	
Apr. 29	20	☉ 1 L.	HA	28.7	31.4	34.2	38.9	41.6	44.7	52.0	54.5	57.0	59.5	2. 27. 44.27		44.42				2. 28. 54.98	
	21	Mercury 1 L.	HA	...	0.9	3.7	9.1	11.6	14.4	22.1	24.7	27.6	...	3. 18. 14.29						3. 18. 19.34	
	22	Mercury 2 L.	HA	...	1.6	4.2	9.5	12.0	14.9	22.7	25.2	28.1	...	3. 18. 14.86		14.68					
	23	α Orionis	HA	13.4	15.8	18.2	23.1	25.8	28.2	35.8	38.1	40.7	43.1	5. 49. 28.24		28.44	33.06	4.62		5. 49. 33.10	- 0.61
	24	α Lynceis	HA	22.7	25.6	28.7	34.6	37.8	40.8	49.9	52.7	55.7	58.9	9. 14. 40.77		40.74				9. 14. 45.39	- 2.19
	25	α Hydræ	HA	10.1	12.6	15.1	20.1	22.6	25.1	32.6	34.9	37.6	40.0	9. 22. 30.04		25.39	30.09	4.70		9. 22. 30.04	- 1.52
	26	α Leonis	HA	18.0	20.5	22.9	28.0	30.5	32.9	40.5	42.9	45.6	48.0	9. 35. 33.00		33.18	37.84	4.68		9. 35. 37.83	- 1.86
	27	ε Leonis	HA	...	...	...	48.8	51.6	54.2	2.4	5.1	8.0	10.5	9. 39. 54.33		54.39	59.01	4.62		9. 39. 59.04	- 2.12
	28	Δ Leonis	HA	35.1	50.0	5.2	7.6	10.1	...	...	...	...	...	10. 2. 20.20		20.37				10. 2. 25.02	- 2.01
	29	Regulus	HA	32.0	34.5	37.0	42.1	44.6	47.1	54.9	57.3	59.9	2.3	10. 2. 47.19		47.35	52.04	4.69		10. 2. 52.00	- 2.04
	30	ζ Leonis	HA	35.7	38.2	41.1	46.5	49.2	52.0	59.9	2.7	5.4	8.1	10. 10. 51.01		51.98				10. 10. 56.63	- 2.29
	31	ι Leonis	HA	...	...	...	...	...	...	52.4	54.9	57.4	59.9	10. 43. 44.87		45.04	49.67	4.63		10. 43. 49.69	- 2.23
	32	π Leonis	HA	...	...	...	...	...	...	52.2	55.0	57.6	0.2	10. 56. 44.41		44.51				10. 56. 49.16	- 2.45
	33	χ Leonis	B	...	24.2	26.7	31.6	34.0	36.5	44.0	46.5	49.1	...	10. 59. 36.60		36.80	41.35	4.55	4.63	10. 59. 41.42	- 2.24
	34	Groomb. 4009 S.P.	HA	...	...	...	...	...	24.9	38.9	7.8	21.9	35.6	11. 5. 10.58		12.59			4.66	23. 5. 17.24	+ 6.51
	35	δ Leonis	B	16.5	19.2	22.0	27.1	29.8	32.4	40.3	42.9	45.7	48.2	11. 8. 32.44		32.53	37.17	4.64	4.63	11. 8. 37.15	- 2.50
	36	π Virginis	HA	15.4	17.8	20.2	25.2	27.7	30.1	37.8	40.1	42.6	45.1	11. 55. 30.22		30.42	35.05	4.63	4.66	11. 55. 35.07	- 2.47
	37	Carrington 2 S.P.	HA	...	...	...	...	...	...	28.4	11.5	34.0	56.0	12. 3. 43.79		46.84				0. 3. 51.49	+ 11.91
	38	ζ Boötis	HA	53.6	56.1	58.6	3.9	6.3	9.0	16.5	19.0	21.6	24.1	14. 36. 8.89		9.04				14. 36. 13.69	- 2.80
	39	Groomb. 612 S.P.	HA	...	...	15.3	24.9	50.9	58.9	7.4	24.9	...	...	15. 3. 50.30		51.55				3. 3. 56.20	+ 2.83
	40	Groombridge 2283	HA	36.0	9.2	26.3	41.5	58.0	14.2	27.2	38.6	50.5	4.1	15. 11. 17.81		10.14				15. 11. 14.79	- 30.14
	41	α Coronæ	HA	58.5	1.2	4.0	9.5	12.2	15.2	23.5	26.1	29.1	31.8	15. 30. 15.14		15.19	19.84	4.65		15. 30. 19.84	- 2.81
	42	θ Ursæ Minoris	HA	...	...	...	...	...	...	7.6	19.0	30.9	42.2	15. 34. 32.99		31.66				15. 34. 36.31	- 6.55
	43	β Scorpii	B	24.9	27.6	30.2	36.0	38.5	41.2	49.4	52.1	54.9	57.6	15. 44. 41.27		41.72			4.63	15. 44. 46.34	- 2.96
	44	W. B. XV. 910	B	...	...	...	17.3	19.9	22.2	30.0	32.3	34.9	37.7	15. 50. 27.34		22.69				15. 50. 27.31	- 2.81
	45	Lalande 29156-8.	B	...	...	51.8	56.9	59.7	2.1	10.0	12.5	...	...	15. 57. 2.20		2.59				15. 57. 7.21	- 2.87
	46	Lalande 29185-6.	B	39.9	42.2	...	50.1	52.9	55.5	3.3	...	8.4	11.2	15. 57. 55.47		55.86				15. 58. 0.48	- 2.87
	47	β Scorpii	B	...	...	10.6	15.9	18.5	21.1	28.9	31.5	...	...	15. 59. 21.11		21.50	26.09	4.59		15. 59. 26.12	- 2.87
	48	Lalande 29244-5.	B	...	...	...	34.9	37.5	40.0	47.8	50.3	53.1	55.8	15. 59. 40.06		40.45				15. 59. 45.07	- 2.87
	49	Bradley 2060	B	...	...	...	38.9	41.4	44.0	51.8	54.2	56.9	59.5	16. 6. 44.04		44.17				16. 6. 48.79	- 2.65
	50	Groomb. 799 S.P.	B	52.5	56.1	0.0	4.0	15.5	19.7	23.3	31.1	35.0	38.9	16. 9. 15.57		16.11				4. 9. 20.73	+ 0.09
	51	η Persei S.P.	B	...	...	...	1.8	13.5	17.6	21.4	29.0	33.3	36.9	16. 12. 13.57		14.11				4. 12. 18.73	+ 0.07
	52	σ Scorpii	B	33.4	36.0	38.8	44.2	47.1	49.8	57.9	0.5	3.4	6.0	16. 14. 49.74		50.19				16. 14. 54.81	- 2.95
	53	Piazzii XVI. 60	B	...	...	...	0.1	2.9	5.8	14.2	17.1	20.0	22.8	16. 18. 5.80		6.28				16. 18. 10.90	- 3.03

Corrections for passage of Semidiameter, Nos. 15 and 20, — 75".59 and + 65".90.

3. Observed in partially illuminated field.
 18. A correction of — 0".03, for defect of illumination, has been applied in forming the concluded transit.
 21, 22. Very ill-defined.
 22. A correction of + 0".05, for defect of illumination, has been applied in forming the concluded transit.
 40. Observed over wire R with the transit-micrometer set to readings 34".890, 35".485, 35".785, 35".990, 36".265, 36".579, 36".780, 36".980, 37".037, 37".389.

15. Correction to R.A. on true meridian, + 0".02.
 18, 19. Very faint and diffused.

28. Observed over wires M, N, O, P and Q.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow as of Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
1898 COMM. Apr. 29	1	Oeltz. Arg. (S.) 15614	B	51.8	54.4	57.1	2.4	5.2	7.8	15.9	18.5	21.2	24.0	16. 19. 7.86	+ 1.15	8.28			4.63	16. 19. 12.90	- 2.91
	2	Antares	B	43.1	46.0	48.6	54.1	56.8	59.7	8.0	10.7	13.2	16.1	16. 22. 59.66	(- 3.12)	0.12	4.70	4.58	[- 0.02]	16. 23. 4.74	- 2.96
	3	Piazzi XVI. 111..	B	...	...	17.8	24.0	26.7	30.0	38.9	41.9	...	...	16. 29. 29.91	[+ 5.75]	30.45				16. 29. 35.07	- 3.16
	4	Groomb. 866 S.P.	B	59.5	3.1	7.0	10.5	22.2	26.0	30.0	37.4	41.4	45.3	16. 35. 22.20		22.72				4. 35. 27.34	- 0.12
	5	ε Herculis	B	...	35.5	38.0	42.9	45.5	48.1	55.5	57.9	0.4	...	16. 40. 48.00		48.18				16. 40. 52.80	- 2.56
	6	Groomb. 881 S.P.	B	54.3	58.8	3.4	7.9	21.0	25.5	29.9	38.6	43.0	47.7	16. 43. 20.97		21.61				4. 43. 26.23	- 0.03
	7	κ Herculis	B	...	1.5	4.0	9.0	11.5	14.0	21.5	24.0	26.3	...	16. 45. 14.00		14.20				16. 45. 18.82	- 2.55
	8	δ 2 L	B	...	25.6	28.4	34.2	37.1	40.1	48.7	51.5	54.7	...	16. 52. 40.07		40.55				16. 51. 29.06	- 3.05
	9	Piazzi XVI. 255 ..	B	49.7	52.5	55.6	1.1	4.0	...	15.5	18.2	21.5	24.4	16. 55. 6.97		7.48				16. 55. 12.10	- 2.47
	10	ε Herculis	B	...	...	...	...	...	56.1	59.2	2.1	20.4	38.7	16. 59. 44.05		44.02				16. 59. 48.64	- 2.93
	11	Lalande 31152 ...	B	19.6	22.1	25.1	30.8	33.3	36.2	44.6	47.1	50.2	52.9	17. 3. 36.22		36.69				17. 3. 41.31	- 2.93
	12	63 Herculis	B	...	...	...	37.0	39.6	42.4	50.4	53.2	56.0	58.7	17. 6. 42.42		42.48				17. 6. 47.10	- 2.42
	13	Piazzi XVII. 15..	B	...	...	45.5	...	...	...	4.2	6.9	9.8	12.4	17. 6. 56.21		56.27				17. 7. 0.89	- 2.41
	14	38 Ophiuchi	B	52.9	55.8	58.3	4.0	6.7	9.5	17.9	20.2	23.1	26.0	17. 11. 9.47		9.93				17. 11. 14.55	- 2.90
	15	θ Ophiuchi	B	18.5	21.3	24.1	29.5	32.2	34.9	43.3	45.9	48.4	51.3	17. 15. 34.97		35.41	40.10	4.69		17. 15. 40.03	- 2.86
	16	43 Ophiuchi	B	29.9	32.6	35.4	41.1	43.9	46.4	54.9	57.8	0.5	3.4	17. 16. 46.62		47.10				17. 16. 51.72	- 2.91
	17	λ Scorpii	B	11.9	15.4	18.2	24.8	27.9	30.9	40.1	43.1	46.2	49.3	17. 26. 30.81		31.37				17. 26. 35.99	- 3.13
	18	21 Camelopardi S.P.	B	14.1	19.5	24.8	30.0	45.8	50.9	56.1	6.5	12.0	17.0	17. 30. 45.62		46.38				5. 30. 51.00	- 0.39
	19	79 Herculis	B	...	...	...	...	...	19.7	22.3	25.1	27.9	17. 33. 11.60		11.66					17. 33. 16.28	- 2.28
	20	Piazzi XVII. 191..	B	5.4	8.0	10.9	16.1	18.9	21.7	29.9	32.5	35.3	38.0	17. 35. 21.70		21.76				17. 35. 26.38	- 2.27
	21	β Ophiuchi	B	2.6	5.1	7.7	12.6	15.1	17.6	25.0	27.4	30.0	32.4	17. 38. 17.57		17.79	22.42	4.63		17. 38. 22.41	- 2.38
	22	μ Herculis	B	4.0	6.7	9.6	15.1	18.0	20.9	29.1	31.9	34.7	37.5	17. 42. 20.78		20.82	25.46	4.64		17. 42. 25.44	- 2.22
	23	Polaris	J	42.4	47.6	52.7	58.0	2.5	7.7	38.2	28.8	35.1	10.8	1. 19. 56.35	[+ 5.09]	42.82	47.36	4.54	4.66	1. 19. 47.48	+ 66.49
	24	Venus 1 L	J	28.9	31.5	34.0	38.9	41.4	44.0	51.5	53.9	56.4	58.9	1. 22. 43.93					[- 0.02]	1. 22. 49.10	
	25	Venus 2 L	J	29.8	32.1	34.6	39.6	42.1	44.6	52.1	54.5	57.0	59.5	1. 22. 44.61							
Apr. 30	26	⊙ 1 L	J	...	...	22.2	27.5	30.0	32.7	40.2	42.9	...	...	2. 31. 32.60						2. 32. 43.38	
	27	⊙ 2 L	J	29.2	32.0	34.5	39.3	42.0	44.6	52.1	54.8	57.4	0.0	2. 33. 44.61		38.72					
	28	Mercury (Centre)	J	...	56.5	59.4	4.4	7.2	9.9	17.9	20.5	23.1	...	3. 26. 9.91		10.07				3. 26. 14.73	- 0.44
	29	Capella	J	34.9	38.3	42.0	48.9	52.5	56.1	...	...	...	...	5. 8. 56.11		55.97				5. 9. 0.63	- 0.46
	30	ζ Orionis	J	11.5	13.8	16.2	21.1	23.7	26.2	33.8	36.1	38.5	40.9	5. 35. 26.20		26.42				5. 35. 31.08	- 0.39
	31	κ Orionis	J	29.9	32.4	34.9	39.8	42.2	44.9	52.2	54.8	57.3	59.9	5. 42. 44.85		45.13	49.79	4.66		5. 42. 49.79	- 0.60
	32	α Orionis	J	13.2	15.8	18.3	23.1	25.8	28.2	35.8	38.2	40.6	43.2	5. 49. 28.24		28.41	33.05	4.64		5. 49. 33.07	- 0.77
	33	β Aurigæ	J	...	...	36.3	43.2	46.7	50.1	0.6	4.0	...	...	5. 51. 50.18		50.04				5. 51. 54.70	- 0.77
	34	θ Aurigæ	J	...	18.1	21.7	27.8	30.7	33.9	43.1	46.2	49.5	...	5. 52. 33.91		33.85				5. 52. 38.51	- 0.77
	35	β Corvi	J	36.6	39.4	42.1	47.3	49.9	52.8	0.7	3.4	6.0	8.8	12. 28. 52.73		53.10	57.77	4.67		12. 28. 37.75	- 2.41
	36	χ Virginis	J	35.3	37.7	40.1	45.1	47.8	50.2	57.6	0.1	2.6	5.1	12. 33. 50.18		50.44				12. 33. 55.09	- 2.48
	37	ρ Virginis	J	19.9	22.4	24.9	30.0	32.5	35.1	42.6	45.1	47.6	50.1	12. 36. 35.04		35.18	39.84	4.66		12. 36. 39.83	- 2.64
	38	34 Virginis	J	...	...	...	52.4	54.9	...	5.0	7.7	...	...	12. 41. 57.51		57.64				12. 42. 2.29	- 2.67
	39	35 Virginis	J	...	...	...	26.4	28.9	31.3	38.8	...	...	...	12. 42. 31.37		31.56	36.22	4.66		12. 42. 36.21	- 2.59
	40	Bradley 90 S.P.	J	14.6	19.9	...	30.0	44.8	49.8	54.7	...	9.9	15.1	12. 46. 44.80		45.43				0. 46. 50.08	+ 1.48
	41	δ Virginis	J	4.5	7.1	9.8	14.6	17.1	19.7	26.9	29.5	32.0	34.4	12. 50. 19.58		19.77	24.44	4.67		12. 50. 24.42	- 2.60
	42	Groomb. 221 S.P.	J	...	...	52.1	57.0	11.0	15.9	20.3	29.8	...	...	12. 57. 10.97		11.56				0. 57. 16.21	+ 1.28
	43	Piazzi O. 267 S.P.	J	...	...	...	24.1	36.0	39.6	43.6	...	...	...	12. 58. 35.79		36.26				0. 58. 40.91	+ 0.75
	44	32 Cassiopeiæ S.P.	J	...	...	24.8	30.3	47.6	53.3	59.1	10.4	...	...	13. 4. 47.52		48.25				1. 4. 52.90	+ 1.92
	45	Piazzi I. 39 S.P.	J	...	...	37.1	42.1	59.2	4.9	10.7	21.9	...	...	13. 13. 59.26		59.99				1. 14. 4.64	+ 1.86
	46	35 Cassiopeiæ S.P.	J	...	...	38.3	43.5	0.9	6.8	12.2	23.6	...	...	13. 14. 0.82		1.55				1. 14. 6.20	+ 1.86
	47	Groombridge 2007	J	49.0	1.2	13.1	25.3	...	...	...	...	...	...	13. 19. 7.15		3.66				13. 19. 8.31	- 19.44
	48	Polaris S.P.	J	3.1	8.5	12.9	17.5	21.9	27.9	32.7	38.7	44.0	48.6	13. 19. 29.30		43.11	47.64	4.53		13. 19. 47.76	+ 66.21
	49	ζ Virginis	J	6.3	8.9	11.4	16.1	18.6	21.2	...	...	...	...	13. 29. 21.17		21.64	26.21	4.57		13. 29. 26.29	- 2.66
	50	Groomb. 2029 ..R.	J	54.6	2.7	10.7	26.2	34.2	42.1	...	...	...	...	13. 34. 42.14		42.64				13. 34. 47.29	- 6.10
	51	Groomb. 2029 ..J.	J	...	...	...	...	...	...	14.1	22.5	30.1	...	13. 34. 42.91		42.15				13. 34. 46.80	- 6.10
	52	τ Boötis	J	30.0	45.9	1.4	3.9	6.6	11.9	...	...	...	...	13. 42. 16.96		17.43	21.98	4.55		13. 42. 22.08	- 2.82
	53	11 Boötis	J	9.0	11.9	14.5	20.0	22.9	25.8	34.1	36.9	39.8	42.5	13. 56. 25.77		25.79				13. 56. 30.44	- 2.97

Correction for passage of Semidiameter, No. 8, — 76".13.

3, 9. Observed in dark field with wires illuminated.

10. Observed over wires V, W, X, Y and Z.

17. Very diffused and unsteady.

23. Observed over wire R with the transit-micrometer set to readings 34".860, 34".900, 34".945, 34".993, 35".020, 35".068, 35".330, 35".777, 35".846, 36".159.

24. A correction of — 0".03, for defect of illumination, has been applied in forming the concluded transit.

28. Tremulous and diffused. A correction of + 0".02, for defect of illumination, has been applied in forming the concluded transit.

30, 31. Faint.

47. Observed over wire T with the transit-micrometer set to readings 35".000, 35".400, 35".800, 36".200.

48. Observed over wire R with the transit-micrometer set to readings 35".210, 35".133, 35".116, 35".090, 35".035, 34".998, 34".943, 34".880, 34".843, 34".807.

52. Observed over wires M, N, O, P, Q and R.

8. Correction to R.A. on true meridian, + 0".02.

11. Observed in partially illuminated field.

41. Faint; cloudy.

1896 G. M. 58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[69]

MONTH.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent of Centre from the Observation.		Correction for Reduction to Mean R.A. 1896.				
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m		s	h	m	s
1896	Apr. 30	1	d Boötis.....	J	21.2	23.9	...	31.9	34.7	37.5	45.5	...	51.1	54.0	14. 5. 37.51	+ 1.15	37.55			4.66	14. 5. 42.20	- 2.93					
		2	Piazz XIV. 12 ...	J	42.9	45.4	47.8	52.7	55.2	57.7	5.1	7.5	10.1	12.6	14. 6. 57.72	(- 3.12)	57.91			[- 0.02]	14. 7. 2.56	- 2.75					
		3	14 Boötis	J	47.8	50.1	52.7	58.1	0.6	3.0	10.5	13.1	15.6	18.1	14. 9. 2.98	[+ 5.09]	3.10				14. 9. 7.75	- 2.80					
		4	Arcturus	J	37.4	39.9	42.6	47.9	50.3	53.0	0.8	3.5	6.1	8.9	14. 10. 53.07		53.15	57.86	4.71		14. 10. 57.80	- 2.83					
		5	Saturn 1 L.	J	...	...	...	...	...	...	52.1	54.6	57.3	59.9	14. 57. 44.56						14. 57. 50.12						
		6	Saturn 2 L.	J	...	...	...	...	...	...	53.3	55.8	58.5	1.1	14. 57. 45.76		45.47										
		7	Groombridge 2283	J	41.8	48.7	53.7	58.7	16.8	23.8	30.7	35.2	54.2	1.1	15. 11. 13.84		6.79				15. 11. 11.44	- 30.09					
		8	β Libræ	J	7.5	10.0	12.5	17.3	19.8	22.2	29.9	32.1	34.7	37.3	15. 11. 22.35		22.62	27.31	4.69		15. 11. 27.27	- 2.79					
		9	Uranus (Centre)..	J	17.6	20.1	22.8	28.0	30.5	33.3	41.1	43.6	46.1	48.7	15. 22. 33.21		33.54				15. 22. 38.19						
		10	δ 2 L.	AC	...	...	2.1	8.0	10.7	13.9	22.2	25.3	28.1	31.1	17. 58. 13.71		14.14			4.67	17. 57. 3.71						
		11	δ Ursæ Minoris...	AC	47.7	53.8	8.7	41.7	27.0	36.1	...	...	...	...	18. 5. 56.60		51.72				18. 5. 56.37	- 5.26					
		12	γ Serpentis	AC	38.1	40.6	43.1	48.1	50.6	53.1	0.4	2.9	5.4	8.0	18. 15. 53.05		53.28	57.95	4.67		.....						
		13	λ Sagittarii	AC	14.3	17.1	19.9	25.2	28.0	30.6	38.9	41.7	44.4	47.0	18. 21. 30.74		31.14	35.77	4.63		.....						
		14	Bradley 2323	AC	...	...	...	39.2	41.9	44.4	52.0	54.5	57.2	59.8	18. 26. 44.42		44.73				18. 26. 49.38	- 2.47					
		15	Bradley 2327	AC	24.6	27.1	29.9	34.8	37.4	40.0	47.8	50.1	52.8	55.4	18. 27. 40.01		40.32				18. 27. 44.97	- 2.46					
		16	φ Sagittarii	AC	50.2	53.1	56.0	1.6	4.6	7.1	15.3	18.0	21.1	23.7	18. 39. 7.10		7.51				18. 39. 12.16	- 2.65					
		17	Cephei 51 S.P.	AC	53.4	59.9	13.4	20.9	10.1	19.3	32.5	43.4	...	...	18. 51. 39.44		45.69				6. 51. 50.34	- 2.98					
	May 1	18	⊙ 1 L.	WB	6.2	8.7	11.3	16.5	19.0	21.6	29.5	31.9	34.5	37.1	2. 35. 21.65	(- 2.37)				4.65	2. 36. 32.55						
		19	⊙ 2 L.	WB	...	...	...	...	...	41.4	44.0	46.5	49.3	2. 37. 33.80	[+ 5.68]	27.91			[- 0.05]								
		20	β Tauri	WB	...	...	...	...	...	38.9	47.4	50.1	52.9	5. 19. 38.91		39.00	43.57	4.57		5. 19. 43.64	- 0.56						
		21	Groomb. 3847 S.P.	WB	...	...	...	...	...	35.8	44.4	49.0	53.4	10. 34. 26.77		27.37				22. 34. 32.00	+ 0.58						
		22	Groomb. 3872 S.P.	WB	...	...	...	...	...	7.9	16.2	20.8	25.1	10. 38. 58.79		59.37				22. 39. 4.00	+ 0.59						
		23	Groomb. 3889 S.P.	WB	...	...	...	...	...	13.3	19.1	25.1	36.4	10. 42. 13.34		14.12				22. 42. 18.75	+ 1.39						
		24	54 Leonis	WB	40.2	42.9	...	...	...	...	...	10.2	13.0	10. 49. 56.60		56.71				10. 50. 1.34	- 2.48						
		25	W. B. (2) X. 966..	WB	...	...	46.1	51.8	54.4	57.1	5.2	8.1	...	...	10. 49. 57.15		57.26				10. 50. 1.89	- 2.48					
		26	d Leonis	WB	53.9	56.2	58.8	3.9	6.2	8.6	16.1	18.4	21.0	23.5	10. 55. 8.68		8.93	13.51	4.58		10. 55. 13.56	- 2.16					
		27	χ Leonis	WB	21.6	24.1	26.6	31.5	34.0	36.4	44.0	46.4	49.0	51.6	10. 59. 36.54		36.76	41.33	4.57		10. 59. 41.39	- 2.22					
		28	Bradley 3125 S.P.	WB	...	9.0	16.5	23.3	44.9	52.1	59.0	13.1	20.5	...	11. 22. 44.73		45.68				23. 22. 50.31	+ 2.47					
		29	Bradley 3147 S.P.	WB	45.0	59.4	5.7	17.9	23.1	36.2	42.2	57.4	4.0	16.7	11. 27. 16.41		21.55				23. 27. 26.18	+ 2.15					
		30	92 Leonis	WB	4.6	7.3	10.0	15.0	17.8	20.2	28.1	31.1	33.7	36.2	11. 35. 20.43		20.56				11. 35. 25.19	- 2.61					
		31	ζ Crateris	WB	11.0	13.5	16.1	21.4	24.0	26.6	34.4	36.9	39.5	42.1	11. 39. 26.58		26.97				11. 39. 31.60	- 2.17					
		32	β Leonis	WB	27.6	30.1	32.8	38.0	40.4	42.9	50.7	53.2	55.9	58.2	11. 43. 43.00		43.18	47.75	4.57		11. 43. 47.81	- 2.51					
		33	Bradley 3194 S.P.	WB	18.4	24.1	31.2	39.0	47.6	55.4	2.1	9.8	18.1	25.3	11. 54. 4.55		8.92				23. 54. 13.55	+ 20.00					
		34	3 Comæ	WB	56.0	58.5	1.2	6.1	8.9	11.4	19.1	21.6	24.1	26.8	12. 5. 11.40		11.56				12. 5. 16.18	- 2.63					
		35	6 Comæ	R. WB	25.5	28.0	30.5	35.9	38.2	40.9	48.6	51.1	53.8	56.2	12. 10. 40.89		41.33				12. 10. 45.95	- 2.62					
		36	Bradley 1672	WB	23.7	31.9	52.5	3.8	13.5	26.2	31.9	42.5	48.7	...	12. 15. 18.22		9.02				12. 15. 13.64	- 50.39					
		37	ζ Cassiopeiæ S.P.	WB	40.0	43.9	48.0	52.1	4.2	8.7	12.9	20.9	25.1	29.4	12. 31. 4.48		5.03				0. 31. 9.65	+ 0.87					
		38	35 Virginis	H	...	19.1	21.8	...	...	31.6	...	41.5	44.0	...	12. 42. 31.62		31.87	36.22	4.35	4.40	.....						
		39	35 Virginis (E&E)	H	47.5	2.3	17.2	...	46.9	1.7	16.8	...	...	...	12. 42. 30.99		31.24	36.22	4.98		.....						
		40	31 Comæ	H	...	22.3	25.2	30.7	33.6	36.4	44.9	47.6	50.4	...	12. 46. 36.42		36.51	40.89	4.38		.....						
		41	31 Comæ (E&E)	H	...	3.4	20.0	...	53.6	10.5	...	...	...	...	12. 46. 35.81		35.90	40.89	4.99		.....						
		42	ε Virginis	R. WB	42.7	44.9	47.5	52.4	54.9	57.6	...	...	...	...	12. 56. 57.57		58.03	2.66	4.63	4.65	12. 57. 2.65	- 2.69					
		43	α Comæ	WB	38.1	40.7	43.4	48.4	50.9	53.5	1.4	4.0	6.7	9.3	13. 4. 53.67		53.83				13. 4. 58.45	- 2.78					
		44	γ Hydriæ	WB	57.8	0.2	2.9	8.1	10.9	13.7	21.5	24.1	26.9	29.8	13. 13. 13.62		14.04				13. 13. 18.66	- 2.61					
		45	Polaris S.P.	WB	46.0	52.5	10.0	15.1	26.7	33.7	44.0	48.9	3.8	14.6	13. 19. 30.65		43.85	48.17	4.32		.....						
		46	Groombridge 2029	WB	55.5	3.4	11.4	26.9	35.0	43.0	6.1	14.1	22.2	30.1	13. 34. 42.85		42.20				13. 34. 46.82	- 6.07					
		47	τ Virginis	WB	...	...	9.2	14.0	16.5	19.0	26.2	28.7	...	...	13. 56. 18.95		19.22	23.87	4.65		13. 56. 23.84	- 2.73					
		48	π Hydriæ	WB	8.1	10.8	13.6	19.1	21.9	24.5	32.9	35.5	38.2	40.9	14. 0. 24.58		25.04				14. 0. 29.66	- 2.81					
		49	d Boötis	WB	21.1	24.0	26.6	32.0	34.8	37.5	46.0	48.3	51.1	54.0	14. 5. 37.57		37.68				14. 5. 42.30	- 2.94					
		50	14 Boötis	WB	48.0	50.4	52.9	58.0	0.6	2.9	10.4	13.0	15.7	18.2	14. 9. 3.03		3.22				14. 9. 7.84	- 2.80					
		51	ρ Boötis	HF	2.0	4.9	7.9	13.5	16.4	19.2	28.0	30.8	33.8	36.6	14. 27. 19.34		19.41	23.85	4.44	4.47	.....						
		52	31 Boötis	WB	15.2	17.6	20.1	25.3	27.8	30.2	37.7	40.1	42.9	45.1	14. 36. 30.22		30.44			4.65	14. 36. 35.06	- 2.79					

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 39 and 41, — 1st 10 and — 1st 10.
Correction for passage of Semidiameter, No. 10, — 75th 11.

- 5, 6, 9. Faint; cloudy.
7. Observed over wire Q with the transit-micrometer set to readings 35th 053, 35th 159, 35th 240, 35th 301, 35th 623, 35th 763, 35th 840, 35th 904, 36th 249, 36th 356.
10. Correction to R.A. on true meridian, + 0th 02.
11. Observed over wire S with the transit-micrometer set to readings 34th 977, 35th 095, 35th 453, 36th 246, 37th 360, 37th 555.
17. Observed over wire Q with the transit-micrometer set to readings 36th 950, 36th 856, 36th 535, 36th 389, 35th 451, 35th 279, 35th 015, 34th 805.
29. Observed over wire S with the transit-micrometer set to readings 35th 948, 35th 645, 35th 473, 35th 205, 35th 055, 34th 769, 34th 616, 34th 284, 34th 126, 33th 850.
33. Observed over wire R with the transit-micrometer set to readings 35th 600, 35th 400, 35th 200, 35th 000, 34th 800, 34th 600, 34th 400, 34th 200, 34th 000, 33th 800.
36. Observed over wire V with the transit-micrometer set to readings 35th 324, 35th 470, 35th 721, 35th 846, 35th 958, 36th 106, 36th 168, 36th 308, 36th 355.
45. Observed over wire R with the transit-micrometer set to readings 35th 374, 35th 298, 35th 174, 35th 105, 35th 010, 34th 936, 34th 844, 34th 783, 34th 690, 34th 618.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation.							
															(Level).							
															[Azimuth].							
I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h	m	s	"	s	s	s	s	h	m	s	s	
8	8	8	8	8	8	8	8	8	8													
May 1	1	η Persei S.P.....	WB	34.6	38.9	43.3	47.3	0.7	4.9	9.4	18.0	22.1	26.6	14. 43. 0.54	+ 1.15	1.11			4.65	2. 43. 5.73	+ 0.80	
	2	τ Persei S.P.....	WB	22.9	27.1	30.9	35.4	47.0	51.3	55.1	3.1	7.4	11.3	14. 46. 47.11	(- 2.37)	47.64			[- 0.05]	2. 46. 52.26	+ 0.62	
	3	1896 b S.P.....	WB	12.0	35.9	...	25.4	...	15.2	40.7	...	...	...	14. 55. 25.80	[+ 5.68]	26.35				2. 55. 30.97		
	4	ι Libræ.....	WB	59.9	2.1	4.9	10.0	12.5	15.1	22.9	25.8	30.9	15. 6. 15.26			15.66	20.37	4.71		15. 6. 20.28	- 2.82	
	5	Groombridge 2283	WB	39.9	48.0	4.9	12.0	24.0	30.1	42.5	54.8	7.0	15.4	15. 11. 15.86		9.23				15. 11. 13.85	- 30.04	
	6	Uranus.....	WB	7.6	10.4	12.9	18.0	20.7	23.3	31.1	33.7	36.2	38.9	15. 22. 23.31		23.70				15. 22. 28.32		
	7	α Coronæ.....	WB	58.5	1.2	4.0	9.6	12.2	15.0	23.3	26.1	29.0	31.7	15. 30. 15.09		15.19	19.86	4.67		15. 30. 19.81	- 2.83	
	8	α Serpentis.....	WB	51.9	54.1	56.6	1.4	4.0	6.6	14.0	16.4	18.9	21.4	15. 39. 6.55		6.79	11.41	4.62		15. 39. 11.41	- 2.74	
	9	δ Ursæ Minoris...	D	48.0	48.7	59.0	6.0	41.6	53.0	...	...	...	...	18. 5. 55.82		51.25	56.12	4.87		.....		
May 2	10	α Leonis.....	DE	...	...	...	...	...	40.5	43.1	45.8	48.1	9. 35. 33.13	(- 1.87)	33.36	37.80	4.44	4.50	.....	.....		
	11	ϵ Leonis.....	DE	38.1	40.7	43.5	48.9	51.8	54.3	2.2	5.1	7.9	10.5	9. 39. 54.33		54.48	58.97	4.49	[- 0.06]	.....		
	12	λ Ursæ Majoris...	DE	27.4	30.8	34.1	40.9	44.1	47.9	58.0	1.2	4.6	8.0	10. 10. 47.73		47.74				10. 10. 52.21	- 2.73	
	13	α Leonis.....	DE	56.8	...	2.0	7.0	9.5	12.1	19.9	22.2	...	27.5	10. 16. 12.15		12.35				10. 16. 16.82	- 2.13	
	14	Piazzi X. 83.....	DE	57.1	59.7	2.2	7.2	9.9	12.3	20.2	22.5	25.1	27.8	10. 23. 12.40		12.61				10. 23. 17.08	- 2.15	
	15	ρ Cephei S.P.....	DE	...	...	...	...	47.5	59.8	12.0	36.0	48.5	0.5	10. 28. 47.53		48.98				22. 28. 53.45	+ 4.48	
	16	β Cephei S.P.....	DE	13.1	21.5	30.0	38.2	3.8	12.3	20.9	37.9	46.3	54.8	10. 33. 3.80		4.86				22. 33. 9.33	+ 2.66	
	17	α Leonis Minoris	DE	27.1	29.9	32.5	38.0	40.6	43.4	51.6	54.1	56.9	59.7	10. 37. 43.41		43.56				10. 37. 48.03	- 2.38	
	18	ι Leonis.....	DE	29.8	32.2	34.8	39.8	42.2	44.9	52.3	54.9	57.6	0.0	10. 43. 44.88		45.11	49.64	4.53		.....		
	19	γ Leonis.....	DE	40.4	43.0	45.9	51.2	54.0	56.8	5.0	7.6	10.4	13.1	10. 49. 56.77		56.91				10. 50. 1.38	- 2.47	
	20	α Crateris.....	DE	23.9	26.4	29.0	34.1	36.7	39.3	47.2	49.9	52.4	54.9	10. 54. 39.41		39.81				10. 54. 44.28	- 1.90	
	21	χ Leonis.....	D	21.6	24.1	26.9	31.6	34.1	36.6	44.1	46.5	49.2	51.6	10. 59. 36.65		36.90	41.32	4.42	4.47	.....		
	22	δ Leonis.....	D	16.8	19.3	22.0	27.2	29.9	32.4	40.4	43.0	45.6	48.3	11. 8. 32.52		12.33			4.50	11. 3. 16.80	- 2.53	
	23	ξ Ursæ Majoris...	DE	18.8	21.7	24.5	30.2	33.3	36.2	44.9	47.9	50.8	53.7	11. 12. 36.23		32.68	37.14	4.46	4.47	.....		
	24	γ Crateris.....	DE	22.8	25.3	28.0	33.1	35.8	38.2	46.0	48.6	51.1	53.8	11. 19. 38.30		36.33			4.50	11. 12. 40.80	- 2.70	
	25	ν Leonis.....	DE	...	...	...	...	...	...	...	...	...	...	11. 19. 38.30		38.70				11. 19. 43.17	- 2.06	
	26	Bradley 1672.....	DE	1.3	10.7	16.4	23.2	31.4	38.9	52.8	59.1	6.8	...	12. 15. 14.30		35.24	39.64	4.40		.....		
	27	γ Comæ.....	DE	26.7	29.5	32.1	38.0	40.8	43.6	52.0	54.8	57.8	0.6	12. 21. 43.62		5.99				12. 15. 10.46	- 49.93	
	28	η Corvi.....	DE	24.7	27.3	29.9	35.0	37.6	40.1	47.9	50.2	52.9	55.5	12. 26. 40.13		43.75				12. 21. 48.22	- 2.88	
	29	Polaris S.P.....	DE	27.8	50.1	6.3	23.8	...	...	...	...	...	...	13. 19. 31.56		40.52				12. 26. 44.99	- 2.40	
	30		DE													43.58	48.66	5.08		.....		
May 3	31	$\odot$ 2 L.....	L	58.4	0.8	3.6	8.9	11.4	13.9	21.4	24.0	26.7	29.3	2. 45. 13.86	[+ 5.36]	14.05			4.42	2. 44. 12.25		
	32	τ Leonis.....	B	18.0	20.5	23.0	28.0	30.4	32.9	40.2	42.7	45.2	47.8	11. 22. 32.89		33.14	37.57	4.43	[- 0.02]	.....		
	33	ν Leonis.....	B	20.1	22.6	25.1	30.0	32.5	35.0	42.2	44.9	47.3	49.8	11. 31. 34.97		35.25	39.63	4.38		.....		
	34	Spica.....	WB	25.2	27.9	30.2	35.4	37.9	40.4	48.0	50.5	53.1	55.4	13. 19. 40.42		40.76	45.39	4.63	4.59	.....		
	35	Polaris S.P.....	WB	35.5	44.8	51.0	58.0	3.1	8.5	15.0	20.1	28.0	33.9	13. 19. 29.54		40.93	49.11	8.18		1. 19. 45.51	+ 64.74	
	36	ζ Virginis.....	WB	6.6	9.1	11.6	16.5	18.9	21.3	28.8	31.2	33.8	36.2	13. 29. 21.42		21.70	26.22	4.52		.....		
	37	γ Cygni.....	B	...	...	...	...	...	42.4	45.6	4.9	24.3	20. 18. 26.37		26.40			4.42	20. 18. 30.80	- 1.15		
	38	α Andromedæ.....	HF	...	42.1	45.1	50.7	53.5	56.2	4.6	7.5	10.4	...	0. 2. 56.29		56.41	0.82	4.41	4.37	0. 3. 0.78	- 0.20	
	39	β Cassiopeiae.....	HF	...	...	...	...	...	27.5	32.2	46.5	51.2	56.0	0. 3. 32.33		32.16			[- 0.05]	0. 3. 36.53	+ 1.06	
	40	α Cassiopeiae.....	HF	4.3	8.9	13.6	22.1	26.3	31.1	44.2	48.5	52.9	57.5	0. 34. 30.98		30.85				0. 34. 35.22	+ 0.96	
	41	γ Cassiopeiae.....	HF	50.4	55.3	0.4	10.2	15.3	20.2	35.1	39.9	45.1	50.0	0. 50. 20.24		20.03				0. 50. 24.40	+ 1.31	
	42	Polaris.....	HF	49.9	0.2	11.4	20.4	26.9	35.1	44.9	52.0	58.3	9.9	1. 19. 56.33		45.35	49.32	3.97		1. 19. 49.72	+ 64.53	
	43	Venus 1 L.....	HF	49.8	52.1	54.8	59.9	2.1	4.4	12.2	14.7	17.1	19.6	1. 41. 4.66	+ 1.18					1. 41. 9.56		
	44	Venus 2 L.....	HF	50.2	52.8	55.3	0.3	2.6	5.4	12.8	15.4	17.6	20.2	1. 41. 5.28	(- 1.89)	5.19				.....		
May 4	45	$\odot$ 1 L.....	HF	36.9	39.5	42.0	47.1	49.6	52.1	0.1	2.6	5.1	7.9	2. 46. 52.32						2. 48. 3.20		
	46	$\odot$ 2 L.....	HF	49.5	52.1	54.6	59.8	2.3	4.9	12.6	15.4	18.1	20.4	2. 49. 5.00		58.84				.....		
	47	β Ursæ Min. S.P.	HF	...	...	...	...	...	10.5	20.0	38.4	47.9	56.9	2. 51. 1.27		2.33				14. 51. 6.69	- 6.19	
	48	α Persei.....	HF	40.9	3.2	...	...	...	...	...	...	...	...	3. 16. 49.05		48.99				3. 16. 53.35	+ 0.33	
	49	γ Ursæ Min. S.P.	HF	...	...	...	...	53.9	1.4	9.2	25.7	33.9	41.5	3. 20. 53.34		54.28				15. 20. 58.64	- 5.26	

Correction for passage of Semidiameter, No. 31, — 66".22.

3. Very faint. Observed in dark field with wires illuminated over wires Z, Y, T, N and M.
 5. Observed over wire V with the transit-micrometer set to readings 35".018, 35".169, 35".413, 35".593, 35".809, 35".902, 36".113, 36".304, 36".507, 36".665.
 6. Very unsteady.
 9. Observed over wire T with the transit-micrometer set to readings 35".396, 36".874, 37".117, 37".291, 38".126, 38".400.
 9, 26, 30, 37. Cloudy.
 24. Observed as one mass.
 27. Observed over wire R with the transit-micrometer set to readings 34".537, 34".653, 34".719, 34".819, 34".905, 35".003, 35".127, 35".243, 35".323.
 30. Observed over wire X with the transit-micrometer set to readings 35".992, 35".799, 35".658, 35".495.
 35. Observed over wire R with the transit-micrometer set to readings 35".974, 35".897, 35".834, 35".803, 35".748, 35".676, 35".614, 35".571, 35".514, 35".461.
 37. Observed over wires W, X, Y and Z.
 42. Observed over wire O with the transit-micrometer set to readings 34".672, 34".756, 34".865, 34".940, 34".995, 35".055, 35".156, 35".226, 35".290, 35".388.
 43. A correction of — 0".03, for defect of illumination, has been applied in forming the concluded transit.
 43, 44. Very diffused and tremulous.
 48. Observed over wires M and N.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently slow.	Adopted Clock slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
May 4	1	Aldebaran.....	W	37.6	40.0	42.7	47.9	50.4	52.9	0.6	3.2	5.9	8.2	4. 29. 52.96	+ 1.18	53.14	57.43	4.29	4.37	.....	
	2	Capella	HF	35.3	39.1	42.3	49.3	52.9	56.7	...	...	...	...	5. 8. 56.59	(- 1.89)	56.57			4.37	5. 9. 0.93	- 0.42
	3	Rigel	HF	...	...	...	...	...	...	...	...	42.9	58.1	5. 9. 28.11	+ 5.36	28.44	32.63	4.19		5. 9. 32.80	- 0.29
	4	δ Ursæ Min. S.P.	HF	6.4	19.5	31.9	40.9	50.0	0.3	10.0	17.7	27.1	35.5	6. 5. 46.35	(- 3.01)	51.57				18. 5. 55.93	- 5.99
	5	η Geminorum ...	HF	16.1	18.8	21.6	26.9	29.7	32.2	40.2	42.9	45.8	48.4	6. 8. 32.29		32.38	36.75	4.37		6. 8. 36.74	- 0.78
	6	μ Geminorum ...	HF	20.5	23.2	25.9	31.1	33.9	36.5	44.4	47.1	49.9	52.5	6. 16. 36.53		36.62	40.91	4.29		6. 16. 40.98	- 0.83
	7	ε Geminorum ...	HF	...	...	...	23.0	25.9	28.5	36.8	39.4	42.1	44.9	6. 37. 28.56		28.62				6. 37. 32.98	- 0.95
	8	Sirius	HF	14.2	16.9	19.6	24.5	27.1	29.9	37.5	40.1	42.5	45.1	6. 40. 29.77		30.11				6. 40. 34.47	- 0.45
	9	ζ Geminorum ...	HF	37.2	39.9	42.5	47.8	50.3	53.1	1.0	3.5	6.1	8.8	6. 57. 53.05		53.13	57.44	4.31		6. 57. 57.49	- 1.03
	10	ι Geminorum ...	HF	37.2	39.9	42.5	47.8	50.3	53.1	1.0	3.5	6.1	8.8	7. 19. 12.96		13.00				7. 19. 17.35	- 1.23
	11	Pollux	W	37.2	40.1	42.7	48.3	51.2	54.0	2.4	5.2	8.1	10.8	7. 38. 54.03		54.07	58.49	4.42	4.37	.....	
	12	γ Cancri	HF	57.5	59.9	2.6	8.0	10.5	13.4	21.1	24.0	26.5	29.2	8. 37. 13.30		13.38	17.70	4.32	4.37	8. 37. 17.73	- 1.64
	13	12 Hydræ	HF	8.9	11.6	14.1	18.9	21.6	24.2	31.7	34.2	36.9	39.4	8. 41. 24.17		24.49				8. 41. 28.84	- 1.14
	14	ι Ursæ Majoris ...	HF	41.1	44.7	48.5	55.9	59.8	3.4	14.5	18.1	22.0	25.8	8. 52. 3.42		3.26				8. 52. 7.61	- 2.28
	15	Piazz V. 245 ...	HF	33.8	36.9	40.0	46.2	49.5	52.7	2.1	5.3	8.6	11.8	8. 59. 52.72		52.67				8. 59. 57.02	- 2.10
	16	ε Cancri	HF	4.1	6.8	9.5	14.8	17.5	20.2	28.1	30.8	33.5	36.1	9. 3. 20.17		20.26				9. 3. 24.61	- 1.81
	17	θ Hydræ	HF	39.4	41.9	44.2	49.2	51.7	54.1	1.5	4.0	6.4	8.9	9. 8. 54.15		54.37				9. 8. 58.72	- 1.54
	18	α Lyncis	HF	22.9	25.9	29.0	34.9	38.0	41.0	50.0	52.9	55.9	59.1	9. 14. 40.99		40.97				9. 14. 45.32	- 2.11
	19	κ Leonis	HF	16.9	19.7	22.5	27.9	30.6	33.5	41.8	44.4	47.2	50.0	9. 18. 33.48		33.53				9. 18. 37.88	- 1.97
	20	h Ursæ Majoris...	HF	...	...	57.1	8.0	13.7	19.2	35.9	41.2	...	...	9. 23. 19.23		18.79				9. 23. 23.14	- 3.34
	21	i Hydræ	HF	14.9	17.3	19.9	24.8	27.2	29.8	37.1	39.5	42.1	44.6	9. 34. 29.74		29.97				9. 34. 34.32	- 1.64
	22	o Leonis	HF	...	20.7	23.3	28.1	30.7	33.3	40.9	43.2	45.9	...	9. 35. 33.28		33.44	37.78	4.34		9. 35. 37.79	- 1.80
	23	A Leonis	HF	...	...	15.5	18.0	20.5	28.1	30.6	33.1	35.6	...	10. 2. 20.56		20.72				10. 2. 25.07	- 1.95
	24	φ ³ Hydræ	HF	12.2	15.0	17.6	22.8	25.3	28.0	35.5	38.1	40.8	43.3	10. 33. 27.89		28.23				10. 33. 32.58	- 1.77
	25	34 Sextantis ...	HF	58.0	0.2	2.8	7.7	10.1	12.6	20.0	22.5	25.0	27.6	10. 37. 12.67		12.87	17.29	4.42		10. 37. 17.22	- 2.04
	26	41 Sextantis ...	HF	47.3	49.9	52.2	57.2	59.9	2.1	9.8	12.1	14.7	17.1	10. 45. 2.25		2.54				10. 45. 6.89	- 1.93
	27	54 Leonis	HF	...	43.3	46.0	51.4	54.1	56.9	5.1	7.9	10.6	...	10. 49. 56.94		57.00				10. 50. 1.35	- 2.45
	28	d Leonis	HF	54.0	56.6	59.1	4.0	6.4	8.9	16.2	18.8	21.3	23.8	10. 55. 8.93		9.13	13.48	4.35		10. 55. 13.48	- 2.13
	29	Groomb. 3977 S.P.	HF	...	...	53.0	58.2	14.2	20.0	25.4	36.1	...	...	11. 0. 14.43		15.15				23. 0. 19.50	+ 1.15
	30	Groomb. 4009 S.P.	HF	...	0.5	15.1	29.2	11.4	26.0	...	...	...	...	11. 5. 11.53		13.40				23. 5. 17.75	+ 5.94
	31	Groomb. 4017 S.P.	HF	1.1	4.9	8.8	12.4	24.0	28.0	31.9	39.6	43.4	47.2	11. 9. 24.09		24.57				23. 9. 28.92	+ 0.31
	32	Groomb. 4040 S.P.	HF	...	...	25.5	33.9	59.3	8.0	16.5	33.5	...	...	11. 13. 59.37		0.51				23. 14. 4.86	+ 2.96
	33	Groomb. 4046 S.P.	HF	...	...	33.1	37.1	50.0	54.0	58.4	7.0	...	...	11. 16. 49.89		50.43				23. 16. 54.78	+ 0.58
	34	Groomb. 4057 S.P.	HF	37.5	41.6	45.9	50.0	2.8	7.1	11.4	19.9	24.1	28.2	11. 20. 2.81		3.36				23. 20. 7.71	+ 0.61
	35	Groomb. 4082 S.P.	HF	...	33.5	38.5	43.1	57.1	1.6	6.2	15.6	20.1	...	11. 25. 56.92		57.53				23. 26. 1.88	+ 0.87
	36	3 Comæ	HF	56.1	59.0	1.4	6.5	9.1	11.7	19.6	22.0	24.6	27.1	12. 5. 11.74		11.85				12. 5. 16.19	- 2.61
	37	6 Comæ	HF	25.8	28.2	30.9	36.1	38.5	41.1	48.9	51.5	54.0	56.5	12. 10. 41.17		41.64				12. 10. 45.98	- 2.60
	38	Bradley 1672 ...	HF	18.7	32.0	41.4	50.0	58.6	7.1	17.4	25.8	34.2	44.0	12. 15. 18.12		8.27				12. 15. 12.61	- 49.08
	39	Lalande 490-2 S.P.	HF	...	...	...	14.7	28.1	41.6	9.1	22.1	36.1	12. 20. 14.72		16.49					0. 20. 20.83	+ 6.31
	40	δ ¹ Corvi	HF	10.1	12.8	15.5	20.4	23.1	25.7	33.3	35.9	38.5	41.0	12. 24. 25.66		26.00				12. 24. 30.34	- 2.39
	41	δ ² Corvi	HF	11.1	13.7	16.2	21.5	24.0	26.5	34.2	36.8	39.4	42.0	12. 24. 26.57		26.91	31.30	4.39		12. 24. 31.25	- 2.39
	42	Oeltz. Arg. (N.) 570-1 S.P.	HF	...	...	...	53.4	14.4	22.4	29.8	44.9	51.8	59.6	12. 33. 15.04		16.02				0. 33. 20.36	+ 2.75
	43	B.D. + 70° No. 35 S.P.	HF	...	...	...	...	2.6	9.8	24.2	31.6	38.9	12. 33. 54.81		55.77					0. 34. 0.11	+ 2.75
	44	W. B. XII. 646 ...	HF	56.1	...	1.3	6.4	8.9	11.5	19.1	21.6	...	26.7	12. 40. 11.47		11.60				12. 40. 15.94	- 2.67
	45	31 Comæ	HF	19.6	22.3	25.4	30.8	33.7	36.5	44.9	47.5	50.4	53.4	12. 46. 36.48		36.52	40.88	4.36		12. 46. 40.86	- 2.91
	46	ψ Virginis	HF	39.5	42.0	44.4	49.5	52.0	54.5	...	...	...	...	12. 48. 54.49		54.78				12. 48. 59.12	- 2.52
	47	δ Virginis	HF	...	...	10.0	14.9	17.4	19.9	27.2	29.8	...	...	12. 50. 19.89		20.09	24.43	4.34		12. 50. 24.43	- 2.59
	48	δ Virginis ..(E&E)	HF	36.5	51.5	...	...	50.6	5.8	...	...	...	...	12. 50. 19.76		19.96	24.43	4.47		.....	
	49	α Comæ	HF	...	...	...	...	51.1	54.0	1.9	4.3	6.9	...	13. 4. 53.96		54.07				13. 4. 58.41	- 2.77
	50	53 Virginis	HF	14.0	16.3	19.0	24.0	26.6	29.2	36.8	39.5	42.1	44.5	13. 6. 29.22		29.56				13. 6. 33.90	- 2.58
	51	Spica	AC	...	28.1	30.5	35.5	38.0	40.5	48.0	50.4	53.1	...	13. 19. 40.53		40.83	45.40	4.57	4.53	.....	
	52	Spica .....(E&E)	AC	56.2	11.8	26.8	...	57.0	12.0	27.0	...	...	...	13. 19. 40.45		40.75	45.40	4.65		.....	
	53	Polaris S.P.	HF	5.6	18.7	26.4	40.2	49.3	56.6	5.8	14.7	23.1	31.0	13. 19. 34.42		45.40	49.52	4.12	4.37	1. 19. 49.74	+ 64.33

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 48 and 52, — 1^m37 and — 1^m37.

1. Very unsteady.

3. Observed over wires X, Y and Z.

4. Observed over wire X with the transit-micrometer set to readings 36^m32.6, 36^m03.0, 35^m73.5, 35^m50.4, 35^m28.6, 35^m04.8, 34^m78.6, 34^m63.5, 34^m40.2, 34^m19.7.

8. Cloudy.

38. Observed over wire U with the transit-micrometer set to readings 34^m08.6, 34^m25.0, 34^m36.1, 34^m44.8, 34^m57.4, 34^m67.5, 34^m77.0, 34^m90.3, 35^m01.5, 35^m13.0.

43. Observed in dark field with wires illuminated.

53. Observed over wire W with the transit-micrometer set to readings 36^m14.6, 36^m04.2, 35^m94.6, 35^m79.6, 35^m74.2, 35^m67.7, 35^m58.2, 35^m49.4, 35^m42.2, 35^m35.9.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation.							
															(Level).							
															[Azimuth].							
I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h	m	s	"	s	s	s	h	m	s	s		
1896																						
May 4	1	ζ Virginis	AC	...	9.2	11.7	16.6	19.0	21.6	28.9	31.4	33.9	...	13. 29. 21.56	+ 1.18	21.79	26.22	4.43	4.53	.....		
	2	ζ Virginis..(E&E)	AC	38.5	53.4	8.0	...	37.8	52.5	7.4	...	...	...	13. 29. 21.58	(- 3.01)	21.81	26.22	4.41	[- 0.05]	.....		
	3	κ Boötis	HF	21.5	24.0	26.8	32.2	35.0	37.8	46.0	48.7	51.4	54.1	14. 5. 37.78	[+ 5.36]	37.84			4.37	14. 5. 42.18	- 2.95	
	4	κ Virginis	HF	3.9	6.2	8.8	13.9	16.3	18.8	26.4	28.9	31.4	33.9	14. 7. 18.87		19.17	23.54	4.37		14. 7. 23.51	- 2.76	
	5	Bellona	HF	31.9	...	...	41.3	43.9	...	54.0	...	...	...	14. 11. 46.51		46.73				14. 11. 51.07		
	6	φ Virginis	HF	...	36.2	38.9	43.6	46.1	48.7	56.1	58.7	1.0	...	14. 22. 48.68		48.93				14. 22. 53.27	- 2.78	
	7	Parthenope	HF	11.2	13.6	16.2	21.0	23.7	26.1	33.9	36.0	38.4	41.0	14. 27. 26.13		26.40				14. 27. 30.74		
	8	1896 b S.P.	HF	56.2	59.8	...	...	23.8	30.0	...	...	...	...	14. 38. 24.21		24.73				2. 38. 29.07		
	9	Saturn 1 L.	R	18.2	...	23.4	...	...	33.6	...	43.8	...	48.7	14. 56. 33.56				4.34		14. 56. 38.84		
	10	Saturn 2 L.	R	19.5	...	24.8	...	...	34.9	...	45.0	...	50.0	14. 56. 34.86								
	11	o ² Libræ	R	56.6	59.2	1.8	6.6	9.1	11.9	19.5	22.0	24.6	27.3	15. 17. 11.88		12.21	16.52	4.31		.....		
	12	Uranus	R	38.0	40.5	43.1	48.2	50.9	53.6	1.4	4.0	6.4	9.1	15. 21. 53.55		53.91				15. 21. 58.22		
	13	72 Ophiuchi	H	8.0	10.2	12.9	18.0	20.5	22.9	30.7	33.0	35.6	38.0	18. 2. 23.00		23.17	27.46	4.29	4.35†	.....		
	14	α Lyræ	H	3.9	6.9	10.1	16.2	19.6	22.6	32.1	35.3	38.5	41.8	18. 33. 22.73		22.68	27.01	4.33		.....		
	15	Polaris	EB	54.2	8.0	15.9	28.2	46.4	54.9	1.8	10.6	17.1	27.2	1. 19. 54.66		40.99	49.71	8.72	4.33	1. 19. 45.32	+ 64.14	
	16	Venus 1 L.	EB	26.3	28.8	31.3	...	...	...	...	51.5	54.0	56.4	1. 45. 41.37					[- 0.05]	1. 45. 46.17		
	17	Venus 2 L.	EB	...	...	...	36.9	39.4	41.9	49.6	...	...	...	1. 45. 41.97								
May 5	18	⊙ 1 L.	EB	28.1	30.1	33.1	38.5	41.1	43.6	51.4	53.8	56.4	59.4	2. 50. 43.58						2. 51. 54.49		
	19	⊙ 2 L.	EB	...	...	...	51.3	54.0	56.5	4.1	...	...	...	2. 52. 56.51								
	20	β Virginis	EB	59.7	2.1	4.6	9.5	12.0	14.5	22.0	24.2	26.8	29.4	11. 45. 14.50		14.72	19.00	4.28		.....		
	21	γ Ursæ Majoris...	EB	56.0	0.0	4.4	12.8	17.0	21.3	34.0	38.1	42.2	46.6	11. 48. 21.28		21.04				11. 48. 25.35	- 3.70	
	22	π Virginis	EB	15.5	18.0	20.6	25.6	28.1	30.4	38.0	40.4	42.9	45.5	11. 55. 30.52		30.70	35.01	4.31		.....		
	23	3 Comæ	EB	56.1	58.7	1.6	6.6	9.2	...	19.7	22.1	24.6	27.5	12. 5. 11.82		11.93				12. 5. 16.23	- 2.61	
	24	δ Ursæ Majoris...	EB	49.1	53.8	58.4	7.5	12.1	16.8	30.6	35.2	39.8	44.2	12. 10. 16.79		16.49				12. 10. 20.79	- 4.01	
	25	Bradley 1672	EB	40.4	49.8	56.9	59.2	54.1	...	...	...	...	...	12. 15. 17.87		8.02				12. 15. 12.32	- 48.65	
	26	δ Virginis	EB	...	...	...	14.9	17.3	20.0	27.4	29.9	32.1	34.8	12. 50. 19.93		20.13	24.43	4.30		.....		
	27	α Comæ	EB	38.5	...	43.9	...	51.6	54.1	2.0	4.4	7.1	9.7	13. 4. 54.16		54.27				13. 4. 58.57	- 2.77	
	28	Polaris S.P.	EB	51.4	1.4	10.7	34.0	43.9	54.7	16.0	26.4	40.4	1.1	13. 19. 27.00		40.98	49.92	8.94		1. 19. 45.28	+ 63.93	
	29	25 Canum Venaticum	EB	30.9	34.0	37.0	43.1	46.1	49.4	58.5	1.8	4.6	8.0	13. 32. 49.37		49.33				13. 32. 53.63	- 3.15	
	30	δ Boötis	EB	21.8	...	...	32.5	35.1	38.0	...	48.9	51.6	...	14. 5. 38.01		38.07				14. 5. 42.37	- 2.95	
May 6	31	⊙ 2 L.	S	...	...	...	43.4	...	...	56.1	58.8	1.5	3.9	2. 56. 48.51		48.63		4.28		2. 55. 46.44		
	32	⊙ 2 L.	H	...	...	...	...	...	30.5	37.6	40.1	42.8	45.3	23. 10. 30.20	(- 3.38)	30.50			4.15	23. 9. 33.57		
	33	Polaris	H	29.5	37.8	44.5	11.4	18.9	27.5	52.2	8.0	19.7	32.0	1. 20. 2.77	[+ 6.32]	46.41	50.56	4.15	[- 0.03]	.....		
	34	Venus 2 L.	H	42.9	45.2	48.0	52.9	55.5	58.0	5.6	8.1	10.5	13.0	1. 54. 57.99		58.17				1. 55. 1.89		
May 7	35	⊙ 1 L.	H	...	...	...	23.0	25.9	28.4	36.0	38.5	41.4	43.9	2. 58. 28.36		28.49				2. 59. 39.21		
	36	Mercury 1 L.	H	...	...	...	...	...	...	41.2	44.0	...	49.4	4. 17. 33.19		33.27				4. 17. 37.62		
	37	Sirius	H	14.4	16.9	19.5	24.5	27.1	29.9	37.8	40.1	42.8	45.4	6. 40. 29.87		30.27	34.38	4.11		.....		
	38	β Andromedæ ...	W	...	35.0	38.0	43.9	47.1	50.0	59.2	2.1	5.2	...	1. 3. 50.09	[+ 5.95]	50.06	54.43	4.37	4.27	1. 3. 54.33	0.00	
May 8	39	⊙ 1 L.	W	5.2	...	10.6	15.9	18.5	21.1	28.6	31.4	...	36.6	3. 2. 21.01						3. 3. 32.00		
	40	⊙ 2 L.	W	18.8	21.1	23.9	28.9	31.6	34.1	42.0	44.4	47.2	49.9	3. 4. 34.22								
	41	Mercury 1 L.	W	51.1	53.6	56.5	1.8	4.4	7.3	15.4	18.0	20.9	23.5	4. 24. 7.28		7.35				4. 24. 11.86		
	42	Capella	W	...	...	...	49.3	53.1	56.5	7.4	...	...	...	5. 8. 56.61		56.45				5. 9. 0.72	- 0.40	
	43	Rigel	W	...	...	...	...	25.9	28.1	35.5	37.8	40.5	43.0	5. 9. 28.10		28.41	32.61	4.20		5. 9. 32.68	- 0.27	
	44	β Tauri	W	...	...	...	...	...	...	47.6	50.4	53.3	56.1	5. 19. 39.26		39.29	43.54	4.25		5. 19. 43.56	- 0.53	
	45	β Canis Minoris..	W	12.1	14.6	17.2	22.1	24.7	27.2	34.5	37.2	39.8	42.1	7. 21. 27.17		27.35	31.59	4.24		7. 21. 31.62	- 0.97	
	46	α ¹ Geminorum ...	W	...	...	...	...	...	54.6	3.2	6.1	9.1	12.1	7. 27. 54.57		54.55				7. 27. 58.82	- 1.28	
	47	Castor	W	...	...	...	...	...	54.9	3.8	6.4	9.5	12.4	7. 27. 54.95		54.93	59.15	4.22		7. 27. 59.20	- 1.28	
	48	Procyon	W	...	35.6	38.2	43.1	45.6	48.1	...	...	...	...	7. 33. 48.09		48.30	52.53	4.23		7. 33. 52.57	- 0.98	
	49	ε Leonis	W	...	...	...	49.0	51.9	54.5	2.6	...	...	...	9. 39. 54.53		54.60	58.88	4.28		9. 39. 58.87	- 1.99	
	50	Regulus	W	...	34.9	37.4	42.3	44.9	47.3	54.9	57.5	...	...	10. 2. 47.42		47.57	51.92	4.35		10. 2. 51.84	- 1.92	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 2, — 1^h 37.Corrections for passage of Semidiameter, Nos. 31, 32, 34, 35, 36, and 41, — 66^h 46 : — 61^h 06 : — 0^h 40 : + 66^h 60 : + 0^h 24 : and + 0^h 24.

5, 8, 23. Very faint. Observed in dark field with wires illuminated.

15. Observed over wire Q with the transit-micrometer set to readings 34^h 8.38, 34^h 9.48, 35^h 0.23, 35^h 1.45, 35^h 2.94, 35^h 3.56, 35^h 4.20, 35^h 5.16, 35^h 5.70, 35^h 6.49.16. A correction of — 0^h 03, for defect of illumination, has been applied in forming the concluded transit.

16, 17. Very diffused; tremulous.

18, 19. Limb boiling.

25. Observed over wire T with the transit-micrometer set to readings 35^h 1.18, 35^h 2.46, 35^h 3.45, 35^h 6.17, 36^h 0.78.

25, 27. Very faint; cloudy.

28. Cloudy. Observed over wire U with the transit-micrometer set to readings 36^h 1.12, 36^h 0.27, 35^h 9.12, 35^h 7.08, 35^h 6.45, 35^h 5.40, 35^h 3.42, 35^h 2.53, 35^h 1.40, 34^h 9.54.32. Scarcely visible. Correction to R.A. on true meridian, + 0^h 01.33. Observed over wire R with the transit-micrometer set to readings 34^h 6.79, 34^h 7.40, 34^h 7.91, 35^h 0.58, 35^h 1.00, 35^h 1.81, 35^h 4.24, 35^h 5.40, 35^h 6.61, 36^h 8.40.

35. Clouds passing; ill-defined and tremulous.

36. Cloudy.

38. Very faint and unsteady.

42, 44. Very faint.

43. Very faint and diffused.

MONTH and DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level). [Azimuth].	#						
s	s	s	s	s	s	s	s	s	s	h m s		s	s	s	s	h m s	s					
May 8	1	λ Hydræ	W	...	15.3	18.0	23.0	25.5	28.1	35.6	38.0	40.5	...	10. 5. 28.02	+ 1.18	28.35			4.27	10. 5. 32.62 - 1.61		
	2	ρ Leonis.....	W	...	...	...	12.5	15.1	17.6	25.2	...	...	...	10. 27. 17.62	(- 3.38)	17.80	22.12	4.32	[- 0.01]	10. 27. 22.07 - 2.02		
	3	41 Leonis Minoris	W	...	...	...	38.2	41.0	43.6	51.8	...	...	...	10. 37. 43.68	[+ 5.95]	43.75				10. 37. 48.02 - 2.31		
	4	42 Leonis Minoris	W	46.0	48.6	51.6	57.3	0.1	3.1	11.8	14.5	17.6	20.4	10. 40. 3.13		3.13				10. 40. 7.40 - 2.47		
	5	41 Sextantis	W	...	...	...	52.2	57.3	59.8	2.2	9.8	12.1	...	10. 45. 2.25		2.56				10. 45. 6.83 - 1.89		
	6	δ Leonis	W	54.0	56.5	59.1	4.0	6.5	9.0	16.2	18.7	21.3	23.8	10. 55. 8.93		9.14	13.44	4.30		10. 55. 13.41 - 2.10		
	7	δ Leonis	W	...	...	...	...	...	...	55.3	57.9	0.4	16.2	10. 56. 44.68		44.77				10. 56. 49.04 - 2.35		
	8	θ Leonis.....	W	29.5	32.0	...	39.7	42.2	44.9	52.6	...	57.8	0.2	11. 8. 44.89		45.02				11. 8. 49.29 - 2.32		
	9	ϵ Cephei S.P.	W	...	...	...	...	...	...	27.0	39.9	46.4	52.9	11. 14. 14.06		15.04				23. 14. 19.31 + 1.61		
	10	ϵ Crateris	W	3.9	6.2	8.8	13.8	16.1	18.8	26.3	28.8	31.4	33.9	11. 19. 18.82		19.14				11. 19. 23.41 - 2.06		
	11	Groomb. 4069 S.P.	W	...	...	...	...	...	...	28.1	40.9	47.3	53.9	11. 22. 15.35		16.34				23. 22. 20.61 + 1.64		
	12	86 Leonis	W	...	...	...	56.2	58.9	1.6	9.7	11.9	14.5	17.1	11. 25. 1.57		1.67				11. 25. 5.94 - 2.45		
	13	Groomb. 4088 S.P.	W	...	...	...	...	24.1	30.0	35.9	47.8	53.7	59.5	11. 27. 24.17		25.06				23. 27. 29.33 + 1.39		
	14	Groomb. 4116 S.P.	W	...	...	...	...	...	...	37.0	41.6	50.9	55.8	0.3	11. 34. 32.15		32.86			23. 34. 37.13 + 0.78		
	15	Lalande F. 4544 S.P.	W	...	...	...	...	23.4	36.6	49.9	16.0	29.6	42.7	11. 35. 23.34		25.32				23. 35. 29.59 + 5.39		
	16	ν Virginis	W	13.9	16.2	18.6	23.8	26.2	28.6	36.1	38.6	41.1	43.8	11. 40. 28.71		28.90				11. 40. 33.17 - 2.35		
	17	Bradley 3166 S.P.	W	...	...	...	...	48.9	55.4	1.9	14.2	21.1	27.4	11. 42. 48.99		49.97				23. 42. 54.24 + 1.76		
	18	β Virginis	W	59.9	2.1	4.6	9.5	12.0	14.4	21.9	24.3	26.9	29.3	11. 45. 14.51		14.74	18.98	4.24		11. 45. 19.01 - 2.34		
	19	Piazzi XXIII. 218 S.P.	W	13.7	23.4	33.1	42.5	...	20.5	30.2	49.0	58.7	8.1	11. 47. 10.92		12.36				23. 47. 16.63 + 3.48		
	20	Groomb. 4176 S.P.	W	...	...	...	39.2	47.9	13.4	22.0	30.6	47.8	...	11. 52. 13.40		14.71				23. 52. 18.98 + 3.02		
	21	B. D. +76° No. 437	W	...	...	...	46.9	6.4	16.5	26.5	56.7	6.9	...	11. 56. 26.75		25.56				11. 56. 29.83 - 6.95		
	22	Radcliffe 2790 ...	W	...	...	...	...	...	...	9.3	27.5	46.1	4.2	11. 58. 14.56		12.20				11. 58. 16.47 - 11.50		
	23	ϵ Corvi	S	28.0	30.5	33.6	38.8	41.5	44.1	52.1	54.8	57.7	0.1	12. 4. 44.15		44.58	48.71	4.13	4.16	12. 6. 31.21 - 11.66		
	24	Groombridge 1858	W	...	...	...	52.1	10.5	29.4	24.5	...	...	...	12. 6. 29.31		26.95			4.27	12. 7. 3.03 - 11.66		
	25	Lalande F. 2018..	W	...	...	...	23.8	42.6	...	...	14.6	...	...	12. 7. 1.13		58.77				12. 9. 58.99 - 2.60		
	26	Piazzi XII. 20 ...	W	...	41.8	44.2	49.4	52.0	54.6	2.2	4.9	7.6	...	12. 9. 54.62		54.73				12. 10. 29.64 - 2.30		
	27	γ Corvi	W	...	...	...	19.9	22.4	25.0	32.6	...	...	...	12. 10. 25.01		25.38				12. 10. 29.64 - 2.30		
	28	Bradley 1672 ...	W	29.0	33.2	39.1	43.6	48.9	54.1	58.3	3.0	7.2	12.3	12. 15. 18.37		7.08				12. 15. 11.34 - 47.19		
	29	ϵ Virginis	W	...	...	52.0	57.0	59.6	2.0	9.5	11.9	...	...	12. 15. 2.02		2.24				12. 15. 6.50 - 2.45		
	30	W. B. XII. 262 ...	W	16.7	19.1	21.7	26.2	29.0	31.6	38.8	41.9	44.0	46.5	12. 18. 31.57		31.87				12. 18. 36.13 - 2.39		
	31	Lalande 490-2 S.P.	W	...	...	...	...	14.5	28.2	41.8	8.6	22.1	36.0	12. 20. 14.64		16.66				0. 20. 20.92 + 5.93		
	32	η Corvi	W	24.8	27.4	29.9	35.1	37.6	40.1	48.0	50.5	53.1	55.7	12. 26. 40.24		40.61				12. 26. 44.87 - 2.38		
	33	Carrington 60 S.P.	W	...	...	...	...	34.1	54.6	35.2	55.9	16.0	...	12. 27. 13.54		16.53				0. 27. 20.79 + 9.85		
	34	B. D. +80° No. 17 S.P.	W	...	...	57.7	12.2	55.4	...	26.2	53.7	...	...	12. 36. 55.84		58.02				0. 37. 2.28 + 6.67		
	35	W. B. XII. 632 ...	W	...	...	...	...	...	40.0	47.6	...	52.4	54.9	12. 39. 39.85		39.99				12. 39. 44.25 - 2.66		
	36	W. B. XII. 646 ...	W	...	...	...	...	...	...	19.3	22.0	24.3	26.8	12. 40. 11.70		11.84				12. 40. 16.10 - 2.66		
	37	ψ Virginis	W	...	...	44.4	49.5	52.0	54.3	2.0	4.4	...	...	12. 48. 54.45		54.77				12. 48. 59.03 - 2.51		
	38	ϵ Virginis	S	43.2	45.8	48.2	53.1	55.9	58.2	5.9	8.3	10.9	13.6	12. 56. 58.33		58.49	2.65	4.16	4.16	13. 9. 20.03 - 2.59		
	39	B. D. -10° No. 3634	W	...	2.9	5.6	10.1	13.0	15.8	22.8	25.2	28.0	...	13. 9. 15.45		15.77			4.27	1. 14. 5.16 + 1.58		
	40	Piazzi I. 39 S.P.	W	26.0	31.6	37.6	43.0	0.1	6.0	11.6	22.6	28.3	34.0	13. 14. 0.03		0.90				1. 14. 6.82 + 1.57		
	41	35 Cassiopeiæ S.P.	W	27.9	33.4	39.1	44.8	1.6	7.4	13.3	24.1	30.1	35.7	13. 14. 1.69		2.56				1. 14. 6.82 + 1.57		
	42	Polaris S.P.	W	29.5	35.9	45.6	49.8	57.5	4.4	12.9	18.9	31.1	37.4	13. 19. 33.07		49.08	51.32	2.24		1. 19. 53.34 + 62.53		
	43	ζ Virginis	W	6.9	9.3	11.9	16.8	19.2	21.7	29.1	31.6	34.1	36.4	13. 29. 21.72		21.97	26.23	4.26	4.33	13. 29. 26.23 - 2.68		
	44	Polaris	AC	49.1	55.7	1.5	8.2	16.6	24.5	31.1	40.3	51.4	57.6	1. 20. 5.00	(- 3.89)	48.09	51.59	3.50		1. 19. 52.42 + 62.26		
	45	α Arietis	AC	58.1	0.9	3.6	8.9	11.6	14.1	22.2	24.9	27.7	30.2	2. 1. 14.25		14.30	18.71	4.41		2. 1. 18.63 - 0.17		
	46	Venus 1 L.	AC	0.5	2.9	...	...	...	15.5	...	...	28.1	30.8	2. 4. 15.55						2. 1. 18.63 - 0.17		
	47	Venus 2 L.	AC	...	...	6.1	11.2	13.8	...	23.9	26.4	...	...	2. 4. 16.31						2. 4. 20.40		
May 9	48	$\odot$ 1 L.	AC	58.9	1.2	4.1	9.4	12.0	14.7	22.1	25.0	27.5	30.2	3. 6. 14.54								
	49	$\odot$ 2 L.	AC	12.5	15.1	17.8	23.1	25.5	28.1	35.8	38.4	41.0	43.4	3. 8. 28.10								
	50	γ Cancri.....	B	57.3	0.0	2.6	8.0	10.6	13.3	21.3	24.0	26.6	29.2	8. 37. 13.32		13.36	17.64	4.28	4.29†	8. 37. 17.65 - 1.57		
	51	ϵ Hydræ	B	58.0	0.6	3.0	8.0	10.5	13.0	20.5	22.9	25.4	28.0	8. 41. 13.01		13.18	17.43	4.25		8. 41. 17.47 - 1.37		
	52	α Leonis.....	R. AC	17.7	20.2	22.8	27.9	30.3	32.9	...	...	...	...	9. 35. 32.84		33.38	37.71	4.33	4.33	9. 35. 37.71 - 1.73		
	53	ϵ Leonis.....	R. AC	37.7	40.3	43.1	48.5	51.3	54.0	...	...	...	...	9. 39. 53.95		54.50	58.87	4.37		9. 39. 58.83 - 1.98		

7. Observed over wires V, W, X and Y.

28. Observed over wire X with the transit-micrometer set to readings 35° 600, 35° 660, 35° 710, 35° 780, 35° 830, 35° 907, 35° 938, 36° 000, 36° 048, 36° 130.

30, 34, 39. Very faint.

42. Observed over wire T with the transit-micrometer set to readings 35° 675, 35° 590, 35° 500, 35° 430, 35° 380, 35° 325, 35° 240, 35° 193, 35° 058, 35° 035.

44. Observed over wire V with the transit-micrometer set to readings 35° 729, 35° 775, 35° 829, 35° 874, 35° 953, 36° 045, 36° 075, 36° 165, 36° 250, 36° 313.

46. A correction of - 0.03, for defect of illumination, has been applied in forming the concluded transit.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
May 9	1	Regulus.....	AC	32.2	34.9	37.3	42.1	44.8	47.5	55.1	57.6	0.1	2.6	10. 2. 47.44	+ 1.18	47.56	51.91	4.35	4.33	10. 2. 51.89	- 1.91
	2	71 Leonis	AC	44.8	47.4	50.0	55.2	57.9	0.4	8.1	10.6	13.3	16.0	11. 17. 0.40	(- 3.89)	0.48			[- 0.01]	11. 17. 4.81	- 2.39
	3	Bradley 3147 S.P.	AC	57.0	2.3	8.5	15.0	38.9	45.3	50.3	55.6	12.0	18.0	11. 27. 16.03	[+ 5.95]	22.68				23. 27. 27.01	+ 20.71
	4	θ Crateris	AC	6.9	9.3	11.9	16.7	19.4	22.0	29.4	31.9	34.3	36.9	11. 31. 21.89		22.19				11. 31. 26.52	- 2.13
	5	Lalande F. 1933..	AC	...	18.0	38.1	18.0	38.1	58.1	57.9	17.0	38.0	...	11. 37. 58.09		55.27				11. 37. 59.60	- 11.96
	6	β Virginis	AC	59.6	2.1	4.5	9.6	12.0	14.3	21.9	24.3	26.9	29.2	11. 45. 14.46		14.67	18.97	4.30		11. 45. 19.00	- 2.33
	7	Groombridge 1830	AC	...	...	...	51.8	54.9	58.0	7.5	10.4	13.7	16.9	11. 46. 58.03		57.91				11. 47. 2.24	- 3.06
	8	Carrington 3686 S.P.	AC	4.4	21.1	38.4	55.6	47.3	5.6	23.7	57.7	15.1	32.4	11. 52. 47.96		50.69				23. 52. 55.02	+ 7.72
	9	Bradley 3203 S.P.	AC	...	...	...	10.2	6.4	25.7	44.1	...	...	...	11. 57. 6.42		9.36				23. 57. 13.69	+ 8.48
	10	Bradley 1672...R.	AC	10.2	20.2	30.6	40.2	41.1	50.1	...	...	...	...	12. 15. 5.37		6.99				12. 15. 11.31	- 46.61
	11	Bradley 1672.....	AC	22.0	32.0	37.6	44.5	30.1	39.5	45.0	53.1	...	...	12. 15. 18.76		6.56				12. 15. 10.88	- 46.61
	12	Polaris S.P.	AC	48.9	55.6	1.9	8.9	37.1	46.2	54.2	6.9	27.9	36.7	13. 19. 29.98		47.19	51.91	4.72		1. 19. 51.51	+ 61.94
	13	Lacaille 5580	AC	29.5	32.5	35.2	40.4	43.5	46.1	54.5	57.3	0.1	2.8	13. 26. 46.18		46.66				13. 26. 50.98	- 2.71
	14	B.D.—13° No. 3733	AC	36.9	39.1	41.8	46.8	49.5	52.0	59.6	2.1	4.5	7.3	13. 31. 51.98		52.32				13. 31. 56.64	- 2.68
	15	m Virginis	AC	52.1	54.7	57.2	2.1	4.7	7.2	14.6	17.1	19.8	22.1	13. 36. 7.18		7.48	11.78	4.30		13. 36. 11.80	- 2.68
	16	3 Boötis	AC	35.5	38.5	41.2	46.6	49.5	52.1	0.4	3.2	6.0	8.7	13. 41. 52.23		52.24				13. 41. 56.56	- 2.95
	17	ε Cassiopeiæ S.P.	AC	15.4	20.6	26.1	31.5	47.8	53.3	58.9	9.9	15.3	20.4	13. 46. 47.87		48.74				1. 46. 53.06	+ 1.41
	18	9 Boötis	AC	31.2	34.0	36.8	42.1	45.1	48.0	56.1	59.0	1.9	4.6	13. 51. 47.91		47.91				13. 51. 52.23	- 2.99
	19	π Hydræ	AC	8.3	11.1	14.0	19.3	22.1	24.9	33.1	35.8	38.6	41.4	14. 0. 24.89		25.35				14. 0. 29.67	- 2.85
	20	1896 b S.P.	AC	15.3	49.3	...	...	...	3.2	37.0	...	...	...	14. 5. 56.14		57.03				2. 6. 1.35	
	21	λ Virginis	AC	11.7	14.2	16.8	22.0	24.3	26.9	34.4	37.0	39.6	42.1	14. 13. 26.92		27.24				14. 13. 31.56	- 2.81
	22	Radcliffe 3250 ...	AC	26.9	39.5	5.6	54.1	23.3	33.5	...	...	...	...	14. 20. 0.48		50.57				14. 19. 54.89	- 36.97
	23	Carrington 303 S.P.	AC	58.0	17.4	34.8	32.1	50.1	9.1	...	...	...	...	14. 26. 3.58		26.93				2. 26. 31.25	+ 79.25
	24	Piazzi XIV. 150..	AC	58.0	0.7	4.0	9.9	12.9	16.1	25.1	28.0	31.1	34.0	14. 37. 16.01		16.56				14. 37. 20.88	- 3.12
	25	ε² Boötis	AC	8.6	11.6	14.1	19.8	22.5	25.4	33.7	36.4	39.2	42.1	14. 40. 25.37		25.37	29.65	4.28		14. 40. 29.69	- 2.98
	26	Saturn 1 L.....	AC	49.5	52.0	54.5	59.5	2.0	4.6	12.2	14.8	17.4	20.0	14. 55. 4.67						14. 55. 10.00	
	27	Saturn 2 L.....	AC	50.7	53.4	55.9	0.7	3.4	6.0	13.6	16.1	18.8	21.3	14. 55. 6.01							
	28	Groombridge 2283	AC	57.9	3.6	10.7	18.0	48.8	55.4	1.4	8.1	...	...	15. 11. 18.46		9.63				15. 11. 13.95	- 29.94
	29	Uranus 1 L.....	AC	47.1	49.7	...	...	...	2.5	...	...	15.6	18.1	15. 21. 2.62						15. 21. 7.48	
	30	Uranus 2 L.....	AC	...	...	52.6	57.8	0.2	...	10.7	13.3	...	...	15. 21. 2.95							
	31	β¹ Lyrae	B	54.3	57.4	0.2	6.1	9.1	12.1	21.0	24.0	27.0	30.0	18. 46. 12.15		12.09	16.47	4.38	4.29	18. 46. 16.37	- 2.08
	32	ω Aquilæ	B	38.7	41.1	43.8	48.8	51.2	53.9	1.3	3.9	6.3	8.9	19. 12. 53.81		53.94	58.20	4.26		19. 12. 58.22	- 2.15
	33	ω Aquilæ ..(E&E)	B	10.5	25.6	40.6	55.7	10.9	25.9	41.0	...	...	...	19. 12. 53.76		53.89	58.20	4.31		.....	
	34	δ Aquilæ	B	58.1	0.6	3.1	8.0	10.5	13.0	20.5	22.9	25.4	28.0	19. 20. 13.03		13.24	17.47	4.23		19. 20. 17.52	- 2.22
	35	δ Aquilæ... (E&E)	B	30.5	45.5	0.1	15.0	29.9	44.7	59.5	...	...	...	19. 20. 13.05		13.26	17.47	4.21		.....	
May 10	36	⊙ 1 L.....	T	53.3	56.0	58.5	3.8	6.2	9.1	16.7	19.5	21.9	24.5	3. 10. 8.98	[+ 5.64]				4.27	3. 11. 20.17	
	37	⊙ 2 L.....	T	7.1	9.6	12.2	17.5	20.0	22.5	30.4	33.0	35.8	38.4	3. 12. 22.68		15.90				.....	
	38	Spica	W	25.7	28.1	30.9	35.8	38.2	40.8	48.3	50.8	53.3	56.0	13. 19. 40.81		41.10	45.40	4.30		.....	
	39	Polaris S.P.	W	46.7	52.2	59.6	20.2	26.0	30.9	49.1	0.5	16.1	27.8	13. 19. 29.99		46.59	52.57	5.98		1. 19. 50.85	+ 61.28
	40	ζ Virginis	W	...	9.5	12.0	16.9	19.2	21.9	29.1	31.6	34.1	...	13. 29. 21.81		22.02	26.23	4.21		.....	
	41	α Andromedæ ...	B	40.0	42.7	45.6	51.1	54.0	56.8	5.2	8.0	10.8	13.6	0. 2. 56.81		56.80	1.01	4.21	4.33	0. 3. 1.13	- 0.39
	42	β Cassiopeiæ	B	...	...	...	...	...	...	47.1	51.8	56.5	1.2	0. 3. 32.92		32.48			[- 0.10]	0. 3. 36.81	+ 0.77
	43	α Cassiopeiæ	B	5.2	9.6	14.0	22.6	27.3	31.8	44.8	49.4	53.9	58.1	0. 34. 31.71		31.33				0. 34. 35.66	+ 0.71
	44	γ Cassiopeiæ	B	51.5	56.1	1.3	11.1	16.0	21.3	36.0	40.8	45.9	50.8	0. 50. 21.13		20.66				0. 50. 24.99	+ 1.06
	45	β Andromedæ ...	B	32.1	35.1	38.2	44.1	47.3	50.3	59.3	2.2	5.5	8.2	1. 3. 50.26		50.18	54.51	4.33		1. 3. 54.51	- 0.08
	46	Polaris	B	56.5	9.4	28.7	35.3	48.2	58.1	6.5	10.4	21.5	27.9	1. 20. 5.05		48.71	52.91	4.20		1. 19. 53.03	+ 60.94
	47	Venus 1 L.....	B	7.2	22.2	25.0	...	...	...	...	50.1	52.7	8.1	2. 13. 37.56	+ 0.81					2. 13. 42.33	
	48	Venus 2 L.....	B	...	...	28.1	33.3	35.9	38.5	46.0	48.5	...	...	2. 13. 38.40	(- 5.04)					.....	
	49	β Ursæ Min. S.P.	B	...	...	23.9	32.8	0.9	10.1	19.3	38.0	...	...	2. 51. 0.74		2.44				14. 51. 6.76	- 6.16
	50	γ Persei.....	B	46.5	50.9	...	3.1	7.1	11.3	23.6	...	32.0	36.0	2. 57. 11.35		10.85				2. 57. 15.17	+ 0.47
May 11	51	⊙ 1 L.....	B	48.0	50.7	53.3	58.4	1.0	3.8	11.5	14.1	16.6	19.1	3. 14. 3.68							
	52	⊙ 2 L.....	B	1.9	4.2	6.9	12.2	14.9	17.4	25.4	28.0	30.5	33.1	3. 16. 17.48						3. 15. 14.88	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 33 and 35, — 2^h.00 and — 2^h.00.

- Observed over wire W with the transit-micrometer set to readings 36^r.599, 36^r.453, 36^r.323, 36^r.179, 35^r.626, 35^r.481, 35^r.370, 35^r.235, 34^r.877, 34^r.724.
- Observed over wire R with the transit-micrometer set to readings 34^r.740, 34^r.871, 34^r.992, 35^r.123, 35^r.873, 35^r.969.
- Observed over wire T with the transit-micrometer set to readings 34^r.908, 35^r.033, 35^r.108, 35^r.188, 35^r.737, 35^r.850, 35^r.929, 36^r.000.
- Observed over wire T with the transit-micrometer set to readings 37^r.014, 36^r.958, 36^r.896, 36^r.840, 36^r.600, 36^r.497, 36^r.441, 36^r.330, 36^r.149, 36^r.083.
- Observed in dark field with wires illuminated.
- Observed over wire T with the transit-micrometer set to readings 34^r.200, 34^r.400, 34^r.800, 36^r.400, 36^r.800, 37^r.000.
- Observed over wire T with the transit-micrometer set to readings 36^r.000, 35^r.900, 35^r.800, 35^r.400, 35^r.300, 35^r.200.
- Observed over wire T with the transit-micrometer set to readings 36^r.255, 36^r.381, 36^r.484, 36^r.598, 37^r.095, 37^r.212, 37^r.325, 37^r.415.
- Observed over wire T with the transit-micrometer set to readings 34^r.948, 34^r.882, 34^r.810, 34^r.629, 34^r.572, 34^r.535, 34^r.309, 34^r.265, 34^r.142, 34^r.039.
- Observed over wire O with the transit-micrometer set to readings 34^r.650, 34^r.760, 34^r.925, 35^r.006, 35^r.120, 35^r.198, 35^r.275, 35^r.301, 35^r.390, 35^r.442.
- Observed over wires N, O, P, W, X and Y. A correction of — 0^s.02, for defect of illumination, has been applied in forming the concluded transit.
- Observed over wires Z, Y, N and M.
- 26, 27, 47, 48, 49. Very unsteady.
- 36, 37. Limb very ill-defined.

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
May 11	1	γ Ursæ Min. S.P.	B	...	...	...	...	53.4	1.3	9.5	25.9	34.0	41.6	3. 20. 53.36	+ 0.81	54.82			4.33	15. 20. 59.14	- 5.28	
	2	Aldebaran	B	...	...	...	...	...	...	6.0	8.7	24.0	39.5	4. 29. 53.23	(- 5.04)	53.22	57.44	4.22	[- 0.10]	4. 29. 57.53	- 0.35	
	3	Mercury 1 L.	B	8.0	10.6	13.2	18.7	21.6	24.2	32.3	35.1	37.9	40.6	4. 42. 24.25	[+ 5.64]	24.16				4. 42. 28.73		
	4	γ Geminorum	B	23.5	26.0	28.5	33.5	36.1	38.9	46.4	48.9	51.6	54.1	6. 31. 38.78		38.77	42.99	4.22		6. 31. 43.07	- 0.79	
	5	ε Geminorum	B	...	...	...	...	...	...	...	...	...	...	6. 37. 28.73		28.63				6. 37. 32.93	- 0.90	
	6	Sirius	B	14.2	16.9	19.4	24.7	27.1	29.7	37.4	40.0	42.5	45.1	6. 40. 29.73		30.02				6. 40. 34.32	- 0.37	
	7	λ Geminorum	B	48.1	51.0	...	58.8	1.1	3.7	11.4	...	16.5	19.1	7. 12. 3.74		3.73				7. 12. 8.03	- 1.00	
	8	δ Geminorum	B	...	...	...	...	...	...	48.9	51.6	59.7	2.1	5.0	7. 13. 51.63		51.57	55.76	4.19		7. 13. 55.87	- 1.07
	9	β Canis Minoris	B	12.1	14.8	17.3	22.2	24.9	27.2	34.6	37.1	39.8	42.1	7. 21. 27.23		27.29	31.56	4.27		7. 21. 31.59	- 0.94	
	10	Castor	B	37.6	40.2	43.4	49.1	52.1	55.0	3.9	6.5	9.5	12.5	7. 27. 55.01		54.84	59.12	4.28		7. 27. 59.14	- 1.25	
	11	Procyon	B	33.1	35.5	38.1	43.1	45.6	48.1	55.5	58.0	0.4	3.1	7. 33. 48.07		48.15	52.50	4.35		7. 33. 52.45	- 0.95	
	12	Pollux	B	37.2	40.1	43.0	48.6	51.4	54.1	2.7	5.3	8.1	10.9	7. 38. 54.17		54.04	58.40	4.36		7. 38. 58.34	- 1.26	
	13	Jupiter 1 L.	W	5.4	...	10.6	...	...	...	21.1	...	31.5	...	36.9	8. 19. 21.12				4.26	8. 19. 26.47		
	14	Jupiter 2 L.	W	7.6	...	12.9	...	...	...	23.4	...	33.9	...	39.2	8. 19. 23.44		22.24					
	15	α Crateris	B	24.0	26.5	29.1	34.2	36.9	39.6	47.3	49.9	52.5	55.1	10. 54. 39.54		39.84			4.33	10. 54. 44.12	- 1.80	
	16	β Ursæ Majoris	B	...	...	...	...	...	...	33.7	47.3	51.8	56.4	0.9	10. 55. 33.80		33.21				10. 55. 37.49	- 3.46
	17	α Ursæ Majoris	B	47.1	52.2	57.9	8.4	13.8	19.1	34.9	40.1	45.7	50.9	10. 57. 19.06		18.31				10. 57. 22.59	- 3.85	
	18	χ Leonis	B	22.0	24.4	26.9	32.0	34.3	36.9	44.2	46.9	49.3	51.9	10. 59. 36.90		36.96	41.23	4.27		10. 59. 41.24	- 2.12	
	19	ψ Ursæ Majoris	B	26.9	30.3	34.0	40.9	44.4	48.0	58.4	1.9	5.4	8.9	11. 6. 34.794		47.60				11. 6. 31.88	- 2.93	
	20	ζ Crateris	B	13.6	16.2	18.9	24.3	26.9	29.6	37.6	40.2	42.9	45.6	11. 6. 29.61		29.96				11. 6. 34.24	- 1.85	
	21	δ Leonis	B	16.9	19.5	22.1	27.4	30.1	32.8	40.8	43.3	46.0	48.6	11. 8. 32.78		32.72	37.04	4.32		11. 8. 37.00	- 2.37	
	22	ξ Ursæ Majoris	B	44.0	1.6	19.1	...	...	...	...	54.0	11.6	29.0	11. 12. 36.58		36.41				11. 12. 40.69	- 2.59	
	23	ξ Ursæ Majoris	B	...	22.1	24.9	30.8	33.7	36.6	45.4	48.2	51.2	...	11. 12. 36.64		36.47				11. 12. 40.75	- 2.59	
	24	γ Crateris	B	22.8	25.4	28.1	33.3	35.9	38.4	46.0	48.7	51.4	54.0	11. 19. 38.43		38.73				11. 19. 43.01	- 1.97	
	25	Groomb. 4070 S.P.	B	1.8	7.6	13.6	19.4	25.2	30.9	42.8	48.7	0.1	6.2	12.1	11. 22. 36.86		37.89				23. 22. 42.17	+ 1.18
	26	Groomb. 4080 S.P.	B	...	...	...	...	43.3	52.9	2.5	20.9	30.1	39.7	11. 24. 43.56		45.27				23. 24. 49.55	+ 2.96	
	27	Groomb. 4086 S.P.	B	30.5	41.6	52.9	15.4	26.7	37.9	...	...	...	...	11. 26. 30.40		32.47				23. 26. 36.75	+ 3.94	
	28	Groomb. 4094 S.P.	B	...	...	...	...	...	...	57.1	6.4	15.1	32.3	41.4	50.1	11. 28. 57.39		58.99			23. 29. 3.27	+ 2.72
	29	Groomb. 4103 S.P.	B	1.4	7.6	14.1	20.5	26.9	33.4	40.2	52.4	4.9	11.5	18.0	11. 31. 39.56		40.69				23. 31. 44.97	+ 1.52
	30	Groomb. 4110 S.P.	B	...	...	...	...	20.9	25.6	30.3	39.4	44.1	48.9	11. 33. 20.84		21.63				23. 33. 25.91	+ 0.62	
	31	Lalande F. 4544 S.P.	B	...	...	...	...	...	...	49.9	16.0	29.6	42.6	11. 35. 23.33		25.75				23. 35. 30.03	+ 5.07	
	32	β Leonis	S	28.1	30.7	33.4	38.4	41.0	43.5	51.3	53.8	56.4	59.0	11. 43. 43.58		43.58	47.67	4.09	4.18	.....		
	33	β Virginis	S	59.9	2.2	4.9	9.6	12.1	14.8	22.1	24.5	27.0	29.5	11. 45. 14.68		14.79	18.95	4.16		.....		
	34	Groombridge 1830	B	39.2	42.2	45.5	51.7	54.9	58.1	7.5	10.6	13.8	17.0	11. 46. 58.08		57.83			4.33	11. 47. 2.11	- 3.04	
	35	γ Ursæ Majoris	B	...	...	...	...	...	...	34.2	38.4	42.8	46.9	11. 48. 21.63		21.10				11. 48. 25.38	- 3.58	
	36	B.D. + 76° No. 437	B	26.7	36.4	46.5	6.7	16.5	27.1	...	...	...	...	11. 56. 26.88		25.20				11. 56. 29.48	- 6.77	
	37	Groomb. 4203 S.P.	B	...	...	...	...	52.5	57.8	2.4	12.1	17.2	22.2	11. 56. 52.49		53.33				23. 56. 57.61	+ 0.89	
	38	ο Virginis	B	37.9	40.2	42.8	47.8	50.1	52.7	0.1	2.6	5.1	7.8	11. 59. 52.73		52.78	57.09	4.31		11. 59. 57.06	- 2.43	
	39	ι Cassiopeiæ S.P.	B	22.3	27.9	33.5	38.9	55.7	1.0	6.6	17.8	23.5	28.9	12. 0. 55.56		56.52				0. 1. 0.80	+ 1.23	
	40	Bradley 6 S.P.	B	...	...	...	...	38.1	9.6	20.2	30.5	...	...	12. 10. 9.50		11.40				0. 10. 15.68	+ 3.94	
	41	B.D. + 75° No. 6 S.P.	B	...	...	...	...	57.4	27.2	37.1	47.1	...	...	12. 11. 27.10		28.90				0. 11. 33.18	+ 3.65	
	42	Groomb. 36 S.P.	B	20.5	...	...	...	50.1	...	30.2	40.0	...	...	19.7	12. 12. 19.99		21.80				0. 12. 26.08	+ 3.69
	43	Groomb. 53 S.P.	B	...	...	32.5	37.6	52.9	58.0	3.1	13.2	...	...	12. 15. 52.83		53.71				0. 15. 57.99	+ 1.05	
	44	Groomb. 55 S.P.	B	...	...	...	...	53.5	6.0	10.2	14.4	...	...	12. 17. 5.99		6.68				0. 17. 10.96	+ 0.54	
	45	δ ² Corvi	B	11.2	13.9	16.3	21.6	24.1	26.5	34.3	36.9	39.5	42.0	12. 24. 26.66		26.94	31.27	4.33		12. 24. 31.22	- 2.36	
	46	δ ² Corvi (E&E)	B	42.6	57.9	13.1	28.6	44.0	59.4	14.9	...	...	...	12. 24. 26.52		26.80	31.27	4.47		.....		
	47	Carrington 60 S.P.	B	52.8	2.1	12.2	22.5	33.5	...	...	...	...	...	12. 27. 12.62		16.34				0. 27. 20.62	+ 9.42	
	48	Oeltz Arg. (N.) 570-1 S.P.	B	...	...	...	...	...	...	30.0	44.8	52.1	59.5	12. 33. 15.20		16.53				0. 33. 20.81	+ 2.36	
	49	B.D. + 70° No. 35 S.P.	B	...	...	...	...	...	...	9.5	24.0	31.6	38.9	12. 33. 54.60		55.93				0. 34. 0.21	+ 2.36	
	50	B.D. + 14° No. 2534	B	26.0	41.2	58.9	1.5	...	...	22.0	24.5	42.2	57.7	12. 39. 11.78		11.79				12. 39. 16.07	- 2.64	
	51	B.D. + 14° No. 2536	B	...	5.9	8.5	13.5	16.0	18.5	26.2	28.9	31.3	...	12. 39. 18.62		18.64				12. 39. 22.92	- 2.64	
	52	W. B. XII. 646	B	...	...	...	...	...	...	19.5	21.9	24.3	26.9	12. 40. 11.75		11.77				12. 40. 16.05	- 2.65	
	53	ψ Virginis	R. B	9.4	24.2	39.2	41.8	44.3	...	...	...	...	...	12. 48. 54.27		54.82				12. 48. 59.10	- 2.50	
	54	ψ Virginis	B	...	...	...	...	...	54.6	2.2	4.6	7.1	9.6	12. 48. 54.66		54.87				12. 48. 59.15	- 2.50	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 46, — 2^h 14.
Correction for passage of Semidiameter, No. 3, + 0^s 26.

2. Observed over wires W, X, Y and Z.

6. Very unsteady.

7. 8. Hazy.

14. A correction of + 0^s 02, for defect of illumination, has been applied in forming the concluded transit.
47. Observed over wire T with the transit-micrometer set to readings 36^s 600, 36^s 100, 35^s 600, 35^s 100, 34^s 600.
50. Observed over wires M, N, P, Q, V, W, Y and Z.

22. Observed over wires M, N, O, X, Y and Z.

53. Observed over wires M, N, O, P and Q.

1896
MAY
1896

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					s	s	s		s	s	s
s	s	s	s	s	s	s	s	s	s	h	m	s	s	s	s	h	m	s	s								
May 11	1	Piazzi I. 39 S.P...	B	...	31'6	37'2	42'8	59'9	5'5	11'2	22'3	28'2	...	13. 13. 59'78	+ 0'81	0'78				4'33	1. 14. 5'05	+ 1'46					
	2	35 Cassiopeiae S.P.	B	27'7	33'2	39'0	44'7	1'6	7'1	12'9	24'0	30'1	35'8	13. 14. 1'55	(- 5'04)	2'55				[- 0'10]	1. 14. 6'82	+ 1'46					
	3	Groombridge 2007	B	37'6	47'2	55'8	8'4	20'0	29'5	38'9	...	...	...	13. 19. 8'20	[+ 5'64]	2'90					13. 19. 7'17	- 18'03					
	4	Polaris S.P.	B	7'2	12'0	17'2	21'7	35'2	40'1	45'4	55'9	0'6	4'7	13. 19. 29'73		50'17	53'28	3'11				1. 19. 54'44	+ 60'57				
	5	Groomb. 315 S.P.	B	...	57'9	2'9	7'8	22'2	26'9	32'0	41'6	46'9	...	13. 22. 22'23		23'05						1. 22. 27'32	+ 1'02				
	6	Groomb. 321 S.P.	B	56'1	0'9	6'0	10'5	25'1	29'9	34'6	44'0	49'1	54'0	13. 23. 24'97		25'79						1. 23. 30'06	+ 1'00				
	7	Groombridge 2065	B	47'3	54'8	1'5	9'2	16'9	30'6	39'3	45'2	53'2	0'1	13. 28. 23'81		10'67						13. 28. 14'94	- 41'82				
	8	B.D. - 14° No. 3763	B	37'4	39'9	42'3	47'4	50'1	52'5	0'2	2'6	5'3	8'0	13. 32. 52'59		52'86						13. 32. 57'13	- 2'68				
	9	Groombridge 2042	B	...	...	22'7	29'2	32'3	35'8	45'6	48'9	...	...	13. 41. 35'78		35'49						13. 41. 39'76	- 3'27				
	10	Groombridge 2044	B	...	31'2	34'5	41'1	44'5	47'9	57'8	1'1	4'5	...	13. 41. 47'86		47'57						13. 41. 51'84	- 3'28				
	11	1896 b S.P.	B	16'1	50'3	...	...	...	14'9	50'8	...	...	...	13. 52. 2'97		4'02						1. 52. 8'29					
	12	7 Virginis	B	...	7'1	9'6	14'4	17'0	19'5	26'9	29'3	31'9	...	13. 56. 19'48		19'60	23'90	4'30				13. 56. 23'87	- 2'76				
	13	θ Centauri	B	13'4	16'1	19'5	25'8	28'2	32'0	41'1	44'1	46'9	50'0	14. 0. 31'74		32'25						14. 0. 36'52	- 2'96				
	14	Bellona	B	30'1	32'5	35'3	40'0	42'4	44'9	52'2	54'9	57'3	59'9	14. 6. 44'97		45'09						14. 6. 49'36					
	15	λ Virginis	B	12'0	14'3	16'9	22'0	24'6	27'2	34'9	37'3	39'9	42'2	14. 13. 27'15		27'41						14. 13. 31'68	- 2'82				
	16	Parthenope	B	56'5	59'1	1'6	6'6	9'1	11'6	19'2	21'6	24'1	26'7	14. 21. 11'63		11'81						14. 21. 16'08					
	17	Carrington 303 S.P.	B	34'2	44'0	57'2	12'4	29'5	...	...	...	...	...	14. 25. 59'46		27'23						2. 26. 31'50	+ 77'99				
	18	Lalande F. 382-3 S.P.	B	17'5	25'2	32'0	40'7	48'9	...	...	...	...	...	14. 30. 32'86		40'40						2. 30. 44'67	+ 19'77				
	19	57 Hydræ	B	34'1	36'9	39'8	45'1	47'9	50'5	58'9	1'6	4'2	7'1	14. 41. 50'64		51'03						14. 41. 55'30	- 3'02				
	20	Groombridge 2157	B	45'9	49'6	53'8	1'6	5'5	9'6	21'6	25'5	29'4	33'6	14. 46. 9'65		9'19						14. 46. 13'46	- 3'58				
	21	* N.P.D. 38° 10'..	B	47'5	51'4	55'5	3'4	7'3	11'4	23'4	27'1	31'2	35'4	14. 46. 11'40		10'94						14. 46. 15'21	- 3'58				
	22	Saturn 1 L.	B	13'9	16'4	19'1	24'1	26'5	29'1	36'7	39'3	42'0	44'5	14. 54. 29'18		30'13						14. 54. 34'40					
	23	Saturn 2 L.	B	15'4	17'9	20'3	25'4	28'0	30'5	38'1	40'6	43'2	46'0	14. 54. 30'56													
	24	ν Libræ	B	43'6	46'1	48'7	53'9	56'4	59'0	6'7	9'1	11'9	14'4	15. 0. 59'01			59'29						15. 1. 3'56	- 2'96			
	25	c Boötis	B	26'2	29'0	31'9	37'1	40'0	42'7	...	...	...	32'0	15. 2. 42'72		42'62						15. 2. 46'89	- 2'96				
	26	B.D. + 25° No. 2874	B	...	...	...	50'8	53'6	56'2	4'5	...	...	...	15. 2. 56'31		56'21						15. 3. 0'48	- 2'95				
	27	Groombridge 2203	B	...	...	...	...	...	24'0	28'6	33'1	37'5	15. 9. 10'80		10'22							15. 9. 14'49	- 3'72				
	28	Groombridge 2209	B	46'0	50'3	54'9	3'8	8'1	12'8	26'0	30'5	34'9	39'5	15. 10. 12'72		12'14						15. 10. 16'41	- 3'71				
	29	Groombridge 2211	B	29'4	33'9	38'2	47'2	51'9	56'0	9'5	14'0	18'4	23'0	15. 10. 56'19		55'61						15. 10. 59'88	- 3'71				
	30	8 Serpentis	B	...	33'1	35'9	40'9	43'2	46'0	53'4	56'1	58'6	...	15. 16. 45'92		45'93						15. 16. 50'20	- 2'88				
	31	7 Serpentis	B	11'0	13'6	16'1	21'3	23'8	26'2	33'9	36'3	38'9	41'5	15. 17. 26'28		26'31						15. 17. 30'58	- 2'88				
	32	Uranus 1 L.	B	26'7	29'2	...	...	...	42'3	...	...	55'3	57'9	15. 20. 42'30		42'75						15. 20. 47'02					
	33	Uranus 2 L.	B	...	...	32'1	37'4	40'0	...	50'3	52'9	...	...	15. 20. 42'57													
	34	W. B. XV. 395 ...	B	26'9	29'3	31'9	36'9	39'5	42'0	49'4	52'0	54'4	56'9	15. 23. 41'94		42'18						15. 23. 46'45	- 2'95				
	35	γ Lupi	B	50'2	53'1	56'1	2'0	4'9	8'0	17'1	19'9	22'9	26'0	15. 33. 8'05		8'54						15. 33. 12'51	- 3'32				
	36	ε Serpentis	B	37'8	40'2	42'9	48'1	50'6	53'4	1'1	3'9	6'5	9'1	15. 36. 53'39		53'35						15. 36. 57'61	- 2'88				
	37	δ Coronæ	B	56'0	58'8	1'7	7'0	9'9	12'6	20'9	23'6	26'3	29'1	15. 45. 12'62		12'51						15. 45. 16'77	- 2'90				
	38	2 Scorpii	B	4'0	6'8	9'6	15'0	17'8	20'4	28'5	31'3	34'0	36'8	15. 47. 20'45		20'82						15. 47. 25'08	- 3'16				
	39	W. B. XV. 910 ...	B	7'5	10'0	12'6	17'7	20'2	22'9	30'4	33'0	35'6	38'0	15. 50. 22'81		23'07						15. 50. 27'33	- 3'00				
	40	7-Yr. Cat. 1860 No. 1276..	B	55'2	57'7	0'1	5'3	7'9	10'5	18'0	20'5	23'1	25'8	15. 51. 10'43		10'69						15. 51. 14'95	- 3'00				
	41	W. B. XV. 945 ...	B	1'1	3'6	6'3	11'4	13'9	16'5	24'1	26'7	29'3	31'9	15. 52. 16'50		16'76						15. 52. 21'02	- 3'00				
	42	Lalande 29156-8...	B	47'1	49'6	52'2	57'6	0'1	2'8	10'6	13'1	15'8	18'4	15. 57. 2'76		3'08						15. 57. 7'34	- 3'08				
	43	Lalande 29185-6..	B	40'3	42'9	45'6	50'8	53'4	56'0	3'9	6'4	9'1	11'8	15. 57. 56'05		56'37						15. 58. 0'63	- 3'08				
	44	β Scorpii	B	5'9	8'5	11'3	16'5	19'1	21'8	29'6	32'1	34'7	37'3	15. 59. 21'71		22'03	26'30	4'27				15. 59. 26'29	- 3'08				
	45	Lalande 29338 ...	B	50'3	52'9	55'6	0'6	3'2	6'0	13'7	16'1	18'7	21'5	16. 2. 5'89		6'19						16. 2. 10'45	- 3'06				
	46	δ Persei S.P.	B	...	...	5'0	8'9	20'4	24'1	28'0	35'9	...	...	16. 10. 20'34		20'94						4. 11. 25'20	+ 0'03				
	47	Groomb. 803 S.P.	B	57'1	0'5	4'5	8'4	20'0	23'9	27'5	35'1	38'9	42'8	16. 11. 19'83		20'42						4. 11. 24'68	+ 0'02				
	48	Radcliffe 1196 S.P.	B	...	...	...	...	3'0	7'1	10'8	18'6	22'5	26'2	16. 13. 3'17		3'77						4. 13. 8'03	+ 0'02				
	49	B.D. - 4° No. 4119	B	4'0	...	9'1	14'0	16'6	19'0	26'5	28'9	...	34'0	16. 24. 19'03		19'20						16. 24. 23'46	- 2'90				
	50	32 Herculis R.	B	32'3	49'6	6'4	9'5	12'4	...	...	...	...	...	16. 29. 23'89		24'47						16. 29. 28'73	- 2'81				
	51	32 Herculis	B	...	...	...	...	...	...	38'9	41'7	59'0	16'3	16. 29. 24'59		24'43						16. 29. 28'69	- 2'81				
	52	42 Herculis	B	...	...	...	...	50'9	54'5	5'9	9'7	13'4	17'2	16. 35. 54'63		54'21						16. 35. 58'47	- 3'00				
	53	ε Herculis	B	33'8	36'1	38'6	43'7	46'1	48'6	56'1	58'5	1'1	3'6	16. 40. 48'64		48'70						16. 40. 52'96	- 2'78				
	54	ε Scorpii	B	...	...	...	...	...	...	33'0	35'9	38'8	42'0	16. 43. 24'07		24'56						16. 43. 28'82	- 3'39				

3. Observed over wire T with the transit-micrometer set to readings 34°'600, 34°'900, 35°'200, 35°'600, 36°'000, 36°'300, 36°'600.
4. Observed over wire O with the transit-micrometer set to readings 33°'311, 33°'282, 33°'250, 33°'202, 33°'077, 33°'042, 33°'000, 32°'905, 32°'860, 32°'825.
7. Observed over wire T with the transit-micrometer set to readings 35°'100, 35°'200, 35°'300, 35°'400, 35°'500, 35°'600, 35°'700, 35°'800, 35°'900, 36°'000, 36°'100.
8, 11, 14, 16, 49. Observed in dark field with wires illuminated. 11. Observed over wires Z, Y, N and M. 13. Very diffused and unsteady.
17. Observed over wire T with the transit-micrometer set to readings 35°'800, 35°'700, 35°'600, 35°'500, 35°'400.
18. Observed over wire T with the transit-micrometer set to readings 36°'000, 35°'800, 35°'600, 35°'400, 35°'200.
25. Observed over wires O, P, Q, R, S, T and Z. 50. Observed over wires M, N, O, P and Q. 51. Observed over wires W, X, Y and Z.

MONTH AND DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896.0.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 10 and 12, — 2^m.15 and — 2^m.15.

7, 8. Very faint. Observed in partially illuminated field.

13. Observed over wire T with the transit-micrometer set to readings 34^m.736, 34^m.958, 35^m.024, 35^m.152, 35^m.311, 35^m.426, 35^m.635, 35^m.725, 35^m.812, 35^m.903.

13, 40, 42, 43. Very unsteady.

14, 15, 44, 45. Very tremulous.

21. Observed over wire Q with the transit-micrometer set to readings 37^m.237, 36^m.931, 36^m.801, 36^m.711, 36^m.606, 36^m.520, 36^m.391, 36^m.319, 36^m.240, 36^m.124.

31. Observed over wire V with the transit-micrometer set to readings 35^m.220, 35^m.705, 35^m.901, 36^m.121, 36^m.270, 36^m.529, 36^m.634, 36^m.989, 37^m.235, 37^m.304.

38. Cloudy.

41. Observed over wire T with the transit-micrometer set to readings 34^m.950, 35^m.051, 35^m.092, 35^m.322, 35^m.379, 35^m.439, 35^m.492, 35^m.811, 36^m.021, 36^m.144.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow as o' Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].								
															h	m							s
May 13	1	o Virginis	RC	...	40.2	42.9	47.9	50.4	52.9	0.3	2.9	5.4	...	11. 59. 52.88	+ 0.81	53.02	57.07	4.05	4.01	11. 59. 57.03	- 2.41		
	2	10 Cassiopeiae S.P. RC	...	...	...	...	...	55.9	1.2	7.3	18.0	23.5	29.0	12. 0. 55.79	(- 4.75)	56.98			[- 0.01]	0. 1. 0.98	+ 1.13		
	3	4 Comae	RC	16.6	19.4	22.1	27.9	30.4	33.2	41.5	44.1	47.1	49.9	12. 6. 33.25	[+ 7.39]	33.22				12. 6. 37.22	- 2.70		
	4	12 Comae	RC	58.9	...	4.2	10.0	12.5	15.4	23.6	26.3	...	31.9	12. 17. 15.38		15.35				12. 17. 19.35	- 2.74		
	5	γ Comae	RC	...	...	...	38.2	41.3	44.1	52.5	...	...	...	12. 21. 44.06		43.99				12. 21. 47.99	- 2.79		
	6	κ Cassiopeiae S.P. RC	26.9	32.5	37.8	43.0	59.1	4.3	9.5	20.2	25.5	30.9	12. 26. 58.92		0.05					0. 27. 4.05	+ 1.11		
	7	21 Cassiopeiae S.P. RC	...	51.8	0.6	9.8	37.8	47.5	56.0	14.6	23.6	...	12. 38. 37.62		39.60					0. 38. 43.60	+ 3.22		
	8	θ Virginis	RC	17.3	19.7	22.1	27.1	29.8	32.1	39.5	42.0	44.5	46.9	13. 4. 32.12		32.40	36.39	3.99		13. 4. 36.40	- 2.57		
	9	Polaris S.P.	RC	48.9	58.0	7.7	16.9	27.8	33.1	41.0	48.0	54.0	1.5	13. 19. 27.79		50.98	54.79	3.81		1. 19. 54.98	+ 59.06		
	10	ε Libræ	RC	50.9	53.4	56.0	0.9	3.4	6.0	13.5	16.1	18.6	21.0	14. 51. 6.00		6.35	10.33	3.98		14. 51. 10.35	- 2.92		
	11	Saturn 1 L.	RC	38.9	...	44.1	...	...	54.2	...	4.2	...	9.6	14. 53. 54.22		55.17				14. 53. 59.17			
	12	Saturn 2 L.	RC	40.0	...	45.3	...	...	55.4	...	5.5	...	10.5	14. 53. 55.36									
	13	δ Boötis	RC	36.9	39.5	42.2	47.8	50.5	53.2	1.6	4.2	7.1	9.9	15. 3. 53.32		53.28				15. 3. 57.28	- 2.98		
	14	δ Boötis	RC	59.9	2.7	6.0	...	...	17.9	...	29.5	32.4	35.6	15. 11. 17.74		17.61				15. 11. 21.61	- 3.05		
	15	γ Ursæ Minoris... RC	...	...	...	...	39.6	48.0	56.1	20.2	...	...	...	15. 20. 56.06		54.69				15. 20. 58.69	- 5.27		
	16	θ Coronæ	RC	25.8	28.6	31.6	37.3	40.1	43.0	51.9	54.7	57.7	0.6	15. 28. 43.16		43.06				15. 28. 47.06	- 3.00		
	17	δ Serpentis (N. Star) RC	33.5	36.1	38.7	43.5	46.1	48.7	56.2	58.7	1.2	3.8	15. 29. 48.67		48.80					15. 29. 52.80	- 2.89		
	18	ε Serpentis	RC	37.9	40.4	43.1	48.2	51.0	53.5	1.4	4.0	6.5	9.4	15. 36. 53.57		53.61				15. 36. 57.61	- 2.90		
	19	β Serpentis	RC	6.5	9.1	11.7	16.9	19.4	22.0	29.8	32.2	34.9	37.3	15. 41. 22.01		22.10				15. 41. 26.10	- 2.89		
	20	δ Coronæ	RC	56.2	59.1	1.9	7.0	10.0	12.8	21.0	23.8	26.5	29.4	15. 45. 12.80		12.77				15. 45. 16.77	- 2.92		
	21	Oeltz. Arg. (N.) 15973 RC	...	...	...	...	...	...	19.5	33.5	45.7	57.0	15. 51. 45.35		43.16					15. 51. 47.16	- 6.52		
	22	Groombridge 2302 RC	...	...	...	17.6	21.9	26.2	38.4	...	...	...	...	15. 59. 26.07		25.60				15. 59. 29.60	- 3.34		
	23	β Andromedæ ... AC	32.7	35.3	38.4	44.5	47.4	50.4	59.6	2.6	5.6	8.5	1. 3. 50.53		50.39	54.59	4.20	4.10	1. 3. 54.49	+ 0.16			
	24	Polaris	AC	38.0	34.0	52.1	3.6	42.5	52.9	19.4	59.9	...	...	1. 20. 14.18	[+ 7.62]	50.94	55.17	4.23	[- 0.09]	1. 19. 55.04	+ 58.68		
	25	Venus 1 L.	AC	32.1	34.7	...	...	...	47.4	...	...	0.0	2.7	2. 27. 47.38	[+ 8.42]	47.93				2. 27. 52.02			
	26	Venus 2 L.	AC	...	...	38.0	43.0	45.6	...	55.8	58.2	...	...	2. 27. 48.15									
May 14	27	⊙ 1 L.	AC	36.1	38.7	41.3	46.4	49.0	51.9	59.7	2.2	4.9	7.6	3. 25. 51.81		59.03				3. 27. 3.12			
	28	⊙ 2 L.	AC	50.3	53.0	55.6	0.8	3.4	6.0	13.9	16.4	19.0	21.9	3. 28. 6.06									
	29	γ Leonis	AC	18.2	20.9	23.3	28.1	30.7	33.1	40.6	42.9	45.5	48.0	11. 22. 33.15		33.40	37.47	4.07		11. 22. 37.46	- 2.17		
	30	Bradley 3147 S.P. AC	50.2	54.4	59.9	5.1	35.7	40.3	44.7	50.1	...	...	...	11. 27. 16.16		25.91				23. 27. 29.97	+ 18.80		
	31	92 Leonis	R. AC	4.1	6.9	9.6	14.9	17.6	20.1	...	...	...	...	11. 35. 20.20		20.86				11. 35. 24.92	- 2.48		
	32	β Leonis	R. AC	27.6	30.0	32.6	37.8	40.1	42.9	...	...	...	...	11. 43. 42.85		43.52	47.65	4.13		11. 43. 47.58	- 2.41		
	33	Groomb. 4203 S.P. AC	22.9	27.6	32.8	38.0	52.5	57.8	2.5	12.5	17.3	22.5	11. 56. 52.59		53.77					23. 56. 57.83	+ 0.75		
	34	10 Cassiopeiae S.P. AC	22.4	28.1	33.6	39.0	55.6	1.5	6.9	18.0	23.5	29.0	12. 0. 55.71		57.04					0. 1. 1.09	+ 1.08		
	35	Groomb. 35 S.P. ... AC	43.5	47.4	51.6	55.5	6.9	10.8	15.1	22.6	26.3	30.8	12. 12. 7.01		7.90					0. 12. 11.95	+ 0.24		
	36	Bradley 1672	AC	35.6	41.5	48.6	54.9	22.3	30.5	40.3	46.1	...	...	12. 15. 17.73		59.89				12. 15. 3.94	- 43.43		
	37	Groomb. 53 S.P. ... AC	22.2	27.3	32.2	37.6	52.9	58.0	3.1	13.0	18.2	23.7	12. 15. 52.77		53.99					0. 15. 58.04	+ 0.91		
	38	δ Corvi	B	11.1	13.9	16.6	21.6	24.1	26.7	34.3	36.9	39.5	42.1	12. 24. 26.71		27.18	31.25	4.07	4.08†	.....			
	39	β Corvi	B	37.2	39.8	42.4	47.8	50.5	53.1	1.1	3.9	6.5	9.1	12. 28. 53.17		53.72	57.71	3.99		.....			
	40	Groomb. 135 S.P. AC	22.9	...	...	35.7	48.1	52.4	...	5.0	...	13.8	12. 39. 48.21		49.20			4.10	0. 39. 53.25	+ 0.50			
	41	Groomb. 139 S.P. AC	...	...	...	...	...	41.5	...	58.1	2.7	28.0	12. 40. 36.99		37.98				0. 40. 42.03	+ 0.51			
	42	δ Virginis	AC	5.3	7.8	10.1	15.1	17.5	20.0	27.6	30.0	32.4	35.0	12. 50. 20.10		20.34	24.40	4.06		12. 50. 24.39	- 2.56		
	43	Piazzi 0. 248 S.P. AC	44.1	48.8	53.5	58.1	12.0	16.7	21.1	30.4	35.1	39.8	12. 54. 11.92		13.01				0. 54. 17.06	+ 0.75			
	44	Groomb. 175 S.P. AC	53.9	11.4	31.1	32.0	50.4	10.0	...	...	...	...	...	12. 58. 1.47		15.31				0. 58. 19.36	+ 31.01		
	45	Lalande F. 2260. ... AC	55.0	12.1	30.4	6.0	24.0	41.5	35.9	52.9	11.0	28.8	13. 16. 41.93		38.29				13. 16. 42.34	- 11.03			
	46	Polaris S.P.	AC	46.0	52.5	0.4	9.4	35.0	42.2	...	...	...	...	13. 19. 26.81		52.02	55.54	3.52		1. 19. 56.07	+ 58.31		
	47	Lalande 24909 ... AC	6.7	9.1	11.8	16.8	19.3	21.9	29.5	32.0	34.6	37.2	13. 22. 21.91		22.06				13. 22. 26.11	- 2.76			
	48	ε Virginis	AC	16.7	19.1	21.9	26.5	29.1	31.6	39.0	41.6	44.0	46.4	13. 26. 31.61		31.95				13. 26. 36.00	- 2.66		
	49	ω Cassiopeiae S.P. AC	52.0	58.6	5.5	11.4	30.9	37.4	43.9	56.9	3.4	9.6	13. 34. 30.90		32.45				1. 34. 36.50	+ 1.76			
	50	49 Cassiopeiae S.P. R. AC	27.6	37.0	47.6	56.9	...	...	...	...	...	...	...	13. 55. 26.82		27.62				1. 55. 31.67	+ 3.56		
	51	49 Cassiopeiae S.P. ... AC	...	...	...	...	25.3	35.8	45.4	5.1	15.1	25.0	13. 55. 25.43		27.79				1. 55. 31.84	+ 3.56			
	52	Arcturus	AC	38.2	40.8	43.3	48.6	51.1	53.8	1.7	4.1	6.9	9.5	14. 10. 53.83		53.91	57.91	4.00		14. 10. 57.96	- 2.88		
	53	γ Boötis	AC	20.1	22.7	25.5	30.6	33.4	35.9	43.8	46.2	49.1	51.6	14. 21. 35.92		36.00	40.00	4.00		14. 21. 40.05	- 2.91		

9. Observed over wire R with the transit-micrometer set to readings 35° 823, 35° 757, 35° 666, 35° 584, 35° 511, 35° 460, 35° 390, 35° 335, 35° 277, 35° 195.
 14. Faint; cloudy. 21. Very faint. Observed in dark field with wires illuminated. 22. Very faint; cloudy. Observed in dark field with wires illuminated.
 24. Very faint. Observed over wire Q with the transit-micrometer set to readings 35° 054, 35° 505, 35° 713, 35° 792, 36° 099, 36° 240, 36° 495, 36° 840.
 25. A correction of - 0.02, for defect of illumination, has been applied in forming the concluded transit.
 30. Observed over wire U with the transit-micrometer set to readings 35° 980, 35° 888, 35° 788, 35° 650, 34° 936, 34° 829, 34° 721, 34° 601.
 36. Observed over wire O with the transit-micrometer set to readings 34° 504, 34° 586, 34° 663, 34° 726, 35° 092, 35° 161, 35° 313, 35° 392.
 40. Very faint. 41. Observed over wires S, P, O and N.
 44. Observed over wire T with the transit-micrometer set to readings 36° 700, 36° 400, 36° 100, 35° 100, 34° 800, 34° 500.
 46. Observed over wire X with the transit-micrometer set to readings 36° 323, 36° 243, 36° 204, 36° 123, 35° 904, 35° 821.

1898 JAN. 15

MONTH	DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
					I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
					s	s	s	s	s	s	s	s	s	s								
													h m s		s	s	s	s	h m s	s		
May 14	1	Lalande F. 3823 S.P.	AC	35.7	46.8	59.8	12.3	53.9	7.0	19.4	31.8	...	...	14. 30. 33.34	+ 0.81	42.72			4.10	2. 30. 46.77	+ 19.33	
	2	Carrington 364 S.P.	AC	27.6	41.3	54.6	8.7	51.5	5.7	18.9	32.6	...	...	14. 35. 30.11	(- 4.75)	39.93			[- 0.09]	2. 35. 43.98	+ 20.13	
	3	57 Hydræ	AC	34.2	37.1	40.0	45.3	48.0	50.8	59.1	1.9	4.9	7.7	14. 41. 50.93	[+ 8.42]	51.52				14. 41. 55.56	- 3.05	
	4	Groombridge 2152	AC	42.0	45.2	48.3	54.7	57.8	1.0	10.3	13.6	16.6	19.9	14. 45. 0.97		0.80				14. 45. 4.84	- 3.16	
	5	Oeltz. Arg. (N.) 15017	AC	35.6	46.7	58.8	22.1	34.1	45.3	20.2	31.9	44.1	55.6	14. 53. 45.55		43.24				14. 53. 47.28	- 7.24	
	6	γ Persei S.P.	AC	45.6	49.9	53.9	58.0	10.1	14.5	18.6	26.8	30.9	35.0	14. 57. 10.29		11.23				2. 57. 15.27	+ 0.40	
	7	ν Libræ	AC	43.8	46.1	48.9	53.9	56.2	6.8	9.3	12.0	14.5	15.0	15. 0. 59.10		59.57				15. 1. 3.61	- 2.98	
	8	ε Boötis	AC	26.3	29.1	31.9	37.4	40.0	42.6	51.1	53.9	56.5	59.2	15. 2. 42.83		42.84				15. 2. 46.88	- 2.98	
	9	B.D. + 25° No. 2874	AC	...	...	...	...	4.4	7.2	10.0	12.5	29.1	45.7	15. 2. 56.35		56.36				15. 3. 0.40	- 2.97	
	10	δ Boötis	AC	59.9	2.6	5.8	11.8	14.8	17.7	26.2	29.2	32.1	35.3	15. 11. 17.57		17.47				15. 11. 21.51	- 3.06	
	11	W.B. (2) XV. 213	AC	8.1	11.1	14.0	20.0	22.9	25.8	34.8	37.6	40.7	43.6	15. 11. 25.89		25.79				15. 11. 29.83	- 3.06	
	12	α Libræ	AC	56.9	59.5	2.0	7.0	9.6	12.1	19.9	22.4	24.9	27.6	15. 17. 12.21		12.67	16.64	3.97		15. 17. 16.71	- 3.01	
	13	Uranus 1 L.	AC	56.0	58.8	...	...	...	11.8	...	...	24.8	27.2	15. 20. 11.74								
	14	Uranus 2 L.	AC	...	...	1.6	6.8	9.6	...	...	19.9	22.5	...	15. 20. 12.11		12.42				15. 20. 16.46		
	15	Groombridge 642 S.P.	AC	13.8	26.1	36.9	48.0	26.9	38.5	50.0	2.6	...	...	15. 32. 7.85		16.53				3. 32. 20.57	+ 15.10	
	16	Groombridge 2286	AC	...	3.4	23.0	0.5	19.7	39.6	37.6	55.9	15.8	...	15. 38. 39.63		35.68				15. 38. 39.72	- 9.82	
	17	Lalande F. 2731-2	AC	...	...	...	27.9	56.9	27.6	56.0	...	...	...	15. 43. 27.38		21.19				15. 43. 25.23	- 13.95	
	18	ε Serpentis	AC	...	...	...	...	...	...	48.9	51.3	6.1	21.0	15. 45. 36.48		36.72	40.75	4.03		15. 45. 40.76	- 2.90	
	19	Groombridge 2298	AC	...	...	...	35.9	50.8	5.7	50.5	...	...	...	15. 49. 5.87		2.89				15. 49. 6.93	- 7.76	
	20	Groombridge 2302	AC	...	5.5	9.5	17.9	21.9	26.0	38.5	42.4	46.5	...	15. 59. 26.07		25.59				15. 59. 29.63	- 3.35	
	21	Radcliffe 3513	AC	32.4	36.8	41.9	51.1	55.9	0.5	14.6	19.3	24.0	28.6	16. 7. 0.56		59.93				16. 7. 3.97	- 3.52	
	22	δ Ophiuchi	AC	37.4	39.9	42.2	47.9	49.7	52.1	59.7	2.1	4.6	7.0	16. 8. 52.21		52.53	56.56	4.03		16. 8. 56.57	- 2.94	
	23	Piazzi XVI. 36	AC	39.1	42.0	45.0	50.9	53.7	56.5	5.1	8.0	10.5	13.9	16. 12. 56.50		57.15				16. 13. 1.19	- 3.36	
	24	Polaris	D	55.9	32.2	42.8	54.1	2.7	14.1	22.0	35.2	19.7	29.9	1. 20. 17.86		53.13	55.91	2.78	3.84 [+ 0.02]	1. 19. 56.97	+ 57.94	
May 15	25	⊙ 1 L.	D	...	...	...	...	46.5	49.1	57.0	59.8	...	4.8	3. 29. 49.19						3. 31. 0.27		
	26	⊙ 2 L.	D	47.8	50.2	52.9	58.2	0.9	3.5	11.4	14.0	16.6	19.1	3. 32. 3.49		56.43						
	27	Spica	D	...	28.7	31.1	36.1	38.5	41.1	48.5	51.1	53.8	...	13. 19. 41.13		41.54	45.39	3.85		.....		
	28	Polaris S.P.	D	49.8	24.1	0.5	17.1	35.7	46.4	9.4	17.9	42.9	51.8	13. 19. 26.87		52.08	56.27	4.19		1. 19. 55.93	+ 57.58	
	29	ζ Virginis	D	7.3	9.6	12.1	17.2	19.8	22.1	29.4	32.1	34.5	36.9	13. 29. 22.12		22.41	26.22	3.81		.....		
	30	τ Virginis	H	5.0	7.6	10.0	14.9	17.4	20.0	27.4	29.9	32.2	34.6	13. 56. 19.92		20.18	23.91	3.73	3.69†	.....		
	31	94 Virginis	H	31.0	33.4	36.0	40.9	43.4	46.0	53.5	56.0	58.5	0.9	14. 0. 45.98		46.36	50.02	3.66		.....		
	32	Parthenope	D	26.2	28.5	31.1	35.8	38.3	41.1	48.4	50.9	53.4	56.0	14. 17. 40.99		41.33			3.84	14. 17. 45.18		
	33	ρ Boötis	D	2.6	5.6	8.6	14.2	17.2	20.1	28.5	31.5	34.4	37.4	14. 27. 20.04		19.98	23.90	3.92		.....		
	34	Carrington 364 S.P.	D	16.6	2.1	46.0	27.3	8.7	53.2	44.4	...	...	...	14. 35. 27.54		37.36				2. 35. 41.21	+ 19.77	
	35	B.D. + 66° No. 870	D	7.0	12.9	19.3	31.2	37.2	43.4	1.6	7.8	13.5	19.6	14. 45. 43.41		42.44				14. 45. 46.29	- 4.56	
	36	β Libræ	D	8.2	10.8	...	...	20.7	23.3	30.8	33.2	35.8	...	15. 11. 23.28		23.66	27.47	3.81		.....		
May 16	37	⊙ 1 L.	B	31.0	33.5	36.1	41.5	44.0	46.9	...	...	...	...	3. 33. 46.71	(- 4.02)	46.76			4.01	3. 34. 58.05		
	38	Pollux	B	3.9	20.6	37.5	40.2	43.1	...	...	...	...	...	7. 38. 54.32	[+ 6.12]	54.28	58.35	4.07	[+ 0.03]	7. 38. 58.30	- 1.21	
	39	β Ursæ Majoris	B	6.6	11.1	15.8	24.6	29.5	34.0	47.4	51.9	56.4	0.9	10. 55. 33.86		33.39				10. 55. 37.41	- 3.32	
	40	α Ursæ Majoris	B	47.1	52.3	57.8	8.1	13.6	19.1	34.9	40.1	45.6	50.8	10. 57. 18.99		18.36				10. 57. 22.38	- 3.68	
	41	χ Leonis	B	22.0	24.4	27.1	32.0	34.5	37.0	44.4	46.9	49.6	52.0	10. 59. 37.01		37.14	41.18	4.04		10. 59. 41.16	- 2.07	
	42	ψ Ursæ Majoris	B	27.1	30.5	34.1	41.0	44.5	48.1	58.5	2.0	5.5	9.0	11. 3. 48.06		47.82				11. 3. 51.84	- 2.84	
	43	δ Leonis	B	16.9	19.6	22.2	27.7	30.1	33.0	40.9	43.5	46.1	48.9	11. 8. 32.92		32.95	36.98	4.03		11. 8. 36.97	- 2.31	
	44	ξ Ursæ Majoris	B	19.1	22.0	...	...	...	36.7	...	...	51.2	54.1	11. 12. 36.64		36.56				11. 12. 40.58	- 2.53	
	45	ξ² Ursæ Majoris	B	...	...	25.1	30.9	33.8	...	45.5	48.2	...	...	11. 12. 36.73		36.65				11. 12. 40.67	- 2.53	
	46	δ Crateris	B	50.6	53.1	55.9	0.7	3.4	6.0	13.6	16.1	18.6	21.2	11. 14. 5.94		6.26	10.31	4.05		11. 14. 10.28	- 1.92	
	47	σ Leonis	B	29.5	32.0	34.5	39.4	41.9	44.4	51.9	54.2	56.7	59.3	11. 15. 44.40		44.55				11. 15. 48.57	- 2.15	
	48	Groombridge 4080 S.P.	B	48.6	57.7	7.1	16.3	44.2	53.9	3.1	21.4	31.1	40.2	11. 24. 44.27		45.92				23. 24. 49.94	+ 2.54	
	49	Groombridge 4086 S.P.	B	54.1	16.2	27.9	38.9	...	...	...	...	...	...	11. 26. 31.47		33.44				23. 26. 37.46	+ 3.45	
	50	Carrington 3629 S.P.	B	...	...	...	...	52.1	11.5	31.1	8.5	27.9	47.6	11. 32. 51.95		55.28				23. 32. 59.30	+ 7.29	
	51	ζ Crateris	B	11.5	14.0	16.6	21.9	24.3	27.1	34.9	37.4	40.1	42.6	11. 39. 27.07		27.43				11. 39. 31.45	- 2.05	

Correction for passage of Semidiameter, No. 37, + 67".28.

- 1, 2, 15. Observed over wire T with the transit-micrometer set to readings 37°.000, 36°.700, 36°.400, 36°.100, 35°.100, 34°.800, 34°.500, 34°.200.
 2, 9, 23, 34. Observed in dark field with wires illuminated. 9. Observed over wires U, V, W, X, Y and Z. 18. Observed over wires W, X, Y and Z.
 24. Observed over wire T with the transit-micrometer set to readings 34°.914, 35°.211, 35°.283, 35°.405, 35°.455, 35°.558, 35°.629, 35°.756, 36°.125, 36°.225.
 25, 26. Very cloudy.
 28. Observed over wire X with the transit-micrometer set to readings 35°.790, 35°.462, 35°.144, 34°.980, 34°.856, 34°.733, 34°.551, 34°.462, 34°.237, 34°.110.
 32. Observed in partially illuminated field.
 34. Observed over wire U with the transit-micrometer set to readings 35°.600, 34°.600, 33°.600, 32°.600, 31°.600, 30°.600, 29°.600.
 37, 38, 50. Cloudy. 38. Observed over wires M, N, O, P, Q and Z.

1938
MONTH
and
DAY.

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TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corr. ected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1860.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.					h	m	s		h	m	s
s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s							
May 16	1	β Leonis	B	28.1	30.8	33.4	38.4	40.9	43.6	51.2	53.7	56.2	58.9	11. 43. 43.54	+ 0.81	43.62	47.63	4.01	4.01	11. 43. 47.64	- 2.39						
	2	β Leonis ... (E&E)	B	0.5	15.6	31.0	46.5	1.7	17.1	32.5	...	...	...	11. 43. 43.46	(- 4.02)	43.54	47.63	4.09	[+ 0.03]	.....	.....						
	3	β Virginis.....	B	59.9	2.2	4.9	9.8	12.1	14.6	22.0	24.6	27.1	29.5	11. 45. 14.69	[+ 6.12]	14.87	18.91	4.04	.....	11. 45. 18.89	- 2.27						
	4	β Virginis... (E&E)	B	...	48.0	2.8	17.6	32.5	47.3	...	...	...	...	11. 45. 14.69	...	14.87	18.91	4.04	.....	.....	.....						
	5	γ Ursæ Majoris...	B	56.2	0.2	4.6	13.0	17.3	21.5	34.1	38.3	42.5	46.9	11. 48. 21.50	...	21.09	...	...	11. 48. 25.11	- 3.47							
	6	ο Virginis .....R.	B	7.5	22.3	37.6	40.0	42.5	...	...	...	...	...	11. 59. 52.50	...	53.04	57.05	4.01	11. 59. 57.06	- 2.39							
	7	ο Virginis	B	...	...	...	...	...	2.9	5.5	8.0	23.0	38.1	11. 59. 53.03	...	53.15	57.05	3.90	11. 59. 57.17	- 2.39							
	8	3 Comæ .....R.	B	25.1	40.4	56.1	58.6	1.2	...	...	...	...	...	12. 5. 11.57	...	12.11	...	...	12. 5. 16.14	- 2.52							
	9	Groomb. 37 S.P...	B	...	...	...	...	17.7	...	...	50.3	58.0	6.2	12. 12. 17.50	...	18.94	...	...	0. 12. 22.97	+ 2.35							
	10	Groombridge 1879	B	...	...	...	...	...	36.0	46.9	9.5	33.1	56.9	12. 16. 36.50	...	32.78	...	...	12. 16. 36.81	- 13.30							
	11	Carrington 1852..	B	...	...	...	33.4	54.0	15.4	18.0	...	...	...	12. 21. 15.40	...	12.10	...	...	12. 21. 16.13	- 12.12							
	12	α Cassiopeiæ S.P.	B	4.2	8.9	13.4	17.6	30.8	35.2	39.9	48.2	52.9	57.4	12. 34. 30.81	...	31.55	...	...	0. 34. 35.58	+ 0.49							
	13	B. D + 72° No. 38 S.P.	B	20.3	28.1	36.4	...	9.0	...	...	42.1	50.6	58.5	12. 40. 9.22	...	10.68	...	...	0. 40. 14.71	+ 2.53							
	14	ε Ursæ Majoris...	B	...	...	9.9	18.6	22.9	27.6	41.0	45.5	...	...	12. 49. 27.62	...	27.16	...	...	12. 49. 31.19	- 3.81							
	15	δ Virginis	B	5.2	7.6	10.1	15.0	17.7	20.1	27.6	30.0	32.5	34.9	12. 50. 20.09	...	20.26	24.39	4.13	12. 50. 24.29	- 2.55							
	16	Bradley 1724	B	...	51.8	55.1	1.4	4.5	7.8	17.2	20.2	23.6	...	12. 51. 7.73	...	7.57	...	...	12. 51. 11.60	- 3.07							
	17	α Canum Venaticum.	B	...	52.9	56.2	2.6	5.9	8.9	18.5	21.7	24.9	...	12. 51. 8.98	...	8.82	...	...	12. 51. 12.85	- 3.07							
	18	Oeltz. Arg. (N.) 949 S.P.	B	...	...	...	...	...	...	56.5	13.1	22.0	30.8	12. 53. 39.45	...	40.95	...	...	0. 53. 44.98	+ 2.70							
	19	Carrington 1943..	B	3.7	14.5	25.1	34.4	44.5	4.9	16.0	26.1	36.1	47.1	12. 58. 55.24	...	46.95	...	...	12. 58. 50.98	- 27.71							
	20	β Comæ.....	B	43.1	46.0	48.8	54.2	57.2	0.1	8.5	11.2	14.0	16.9	13. 7. 0.03	...	59.98	...	...	13. 7. 4.01	- 2.87							
	21	61 Virginis	B	40.3	42.9	45.6	50.7	53.2	56.0	3.5	6.1	8.9	11.4	13. 12. 55.89	...	56.25	...	...	13. 13. 0.28	- 2.56							
	22	Spica	AC	...	28.2	31.0	36.0	38.4	41.0	48.3	50.9	53.6	...	13. 19. 40.95	...	41.25	45.39	4.14	4.10†	.....	.....						
	23	Spica ... (E&E)	AC	58.8	13.9	28.9	...	58.6	14.0	29.4	...	...	...	13. 19. 40.96	...	41.26	45.39	4.13	.....	.....	.....						
	24	Polaris S.P.	B	19.1	28.3	35.9	47.9	53.6	2.6	13.0	18.0	22.1	28.8	13. 19. 33.83	...	52.82	56.95	4.13	4.01	.....	.....						
	25	ζ Virginis	AC	...	9.5	12.0	17.0	19.4	22.0	29.3	31.9	34.2	...	13. 29. 21.93	...	22.13	26.22	4.09	4.10†	.....	.....						
	26	η Ursæ Majoris...	B	3.5	7.3	11.1	18.7	22.4	26.3	37.7	41.6	45.5	49.1	13. 43. 26.36	...	26.04	...	...	4.01	13. 43. 30.07	- 3.53						
	27	η Boötis	B	27.1	29.6	32.3	37.5	40.2	42.8	50.4	53.1	55.8	58.2	13. 49. 42.73	...	42.78	46.79	4.01	.....	13. 49. 46.81	- 2.85						
	28	9 Boötis	B	31.5	34.2	36.9	42.7	45.6	48.5	...	...	...	...	13. 51. 48.30	...	48.26	...	...	.....	13. 51. 52.29	- 2.98						
	29	11 Boötis	B	...	...	15.5	21.1	...	...	34.8	37.6	40.4	43.2	13. 56. 26.55	...	26.51	...	...	.....	13. 56. 30.54	- 2.98						
	30	α Draconis	B	0.7	6.3	12.3	24.1	29.8	35.9	53.1	58.9	4.7	10.5	14. 1. 35.69	...	34.98	...	...	.....	14. 1. 39.01	- 4.55						
	31	3 Ursæ Minoris ..	B	13.4	22.9	...	...	...	...	...	...	58.9	8.5	14. 6. 11.02	...	9.62	...	...	.....	14. 6. 13.65	- 6.48						
	32	4 Ursæ Minoris ..	B	...	...	...	56.5	8.3	20.5	56.2	...	...	...	14. 9. 20.50	...	18.69	...	...	.....	14. 9. 22.72	- 7.64						
	33	Arcturus	B	38.1	40.7	43.2	48.3	51.0	53.8	1.6	4.1	6.9	9.5	14. 10. 53.75	...	53.79	57.91	4.12	.....	14. 10. 57.82	- 2.88						
	34	λ Boötis	B	...	...	11.1	18.2	21.9	25.5	36.1	39.8	...	...	14. 12. 25.47	...	25.21	...	...	.....	14. 12. 29.24	- 3.40						
	35	Piazzi II. 60 S.P.	B	...	...	...	...	...	34.0	49.5	21.8	37.8	54.5	14. 22. 17.47	...	20.27	...	...	.....	2. 22. 24.30	+ 6.41						
	36	Bradley 344 S.P.R.	B	2.4	17.6	33.1	49.6	...	...	...	...	...	...	14. 32. 36.41	...	36.82	...	...	.....	2. 32. 40.85	+ 6.14						
	37	Bradley 344 S.P...	B	...	...	...	...	34.9	51.4	6.9	38.0	53.6	9.5	14. 32. 34.98	...	37.71	...	...	.....	2. 32. 41.74	+ 6.14						
	38	Groomb. 564 S.P..	B	55.1	59.1	3.3	7.4	19.7	23.8	27.8	35.9	40.0	44.0	14. 44. 19.57	...	20.24	...	...	.....	2. 44. 24.27	+ 0.37						
	39	ε Libræ	B	51.0	53.4	56.0	0.9	3.4	6.0	13.5	16.0	18.5	21.0	14. 51. 5.99	...	6.29	10.35	4.06	.....	14. 51. 10.32	- 2.94						
	40	Saturn 1 L.	B	46.4	48.9	51.6	56.5	59.2	1.8	9.4	11.9	14.5	17.0	14. 53. 1.74	...	...	...	...	.....	3. 1. 24.85	+ 2.54						
	41	Saturn 2 L.	B	47.8	50.2	52.9	58.0	0.5	3.1	10.8	13.1	15.9	18.2	14. 53. 3.07	...	2.73	...	...	.....	3. 4. 12.68	+ 0.29						
	42	20 Libræ	B	41.1	43.9	46.5	52.0	54.8	57.5	5.6	8.2	11.1	13.8	14. 57. 57.48	...	57.91	...	...	.....	3. 7. 33.86	+ 4.99						
	43	Groomb. 604 S.P..	B	...	...	44.1	52.7	19.2	28.2	37.1	54.8	...	...	15. 1. 19.26	...	20.82	...	...	.....	15. 9. 1.49	- 12.02						
	44	Groomb. 618 S.P..	B	44.0	48.0	52.1	56.1	8.0	12.1	16.1	24.0	28.0	32.0	15. 4. 8.00	...	8.65	...	...	.....	3. 16. 53.53	+ 0.17						
	45	Groomb. 614 S.P..	B	...	...	...	44.5	27.0	41.5	55.9	...	...	...	15. 7. 27.34	...	29.83	...	...	.....	15. 19. 55.92	.....						
	46	Carrington 2286..	B	...	...	...	15.1	38.1	1.0	9.1	...	...	...	15. 9. 1.05	...	57.46	...	...	.....	3. 21. 24.58	+ 0.16						
	47	α Persei S.P.....	B	26.0	30.0	33.7	37.5	48.9	52.8	56.7	4.1	8.0	11.6	15. 16. 48.89	...	49.50	...	...	.....	15. 26. 25.17	- 9.81						
	48	Uranus 1 L.	B	35.8	38.3	...	...	...	51.4	...	...	4.2	6.9	15. 19. 51.34	...	...	...	...	.....	3. 32. 18.57	+ 1.49						
	49	Uranus 2 L.	B	...	...	41.4	46.4	49.1	...	59.5	2.0	...	...	15. 19. 51.71	...	51.89	...	...	.....	3. 32. 19.32	+ 1.49						
	50	Piazzi III. 56 S.P.	B	...	...	...	...	20.0	23.8	27.7	35.1	38.9	42.6	15. 21. 19.94	...	20.55	...	...	.....	15. 36. 54.66	- 3.20						
	51	Carrington 2328..	B	...	...	...	...	...	...	19.9	36.8	57.4	14.8	15. 26. 24.03	...	21.14	...	...	.....	.....	.....						
	52	Groomb. 711 S.P..	B	31.2	38.1	...	...	13.6	...	...	...	48.3	55.5	15. 32. 13.29	...	14.54	...	...	.....	.....	.....						
	53	Oeltz. Arg. (N.) 3959 S.P.	B	...	...	46.1	52.6	...	21.1	28.2	42.6	...	...	15. 32. 14.04	...	15.29	...	...	.....	.....	.....						
	54	Groombridge 2264	B	...	...	37.1	44.0	47.5	50.8	1.1	4.5	...	...	15. 36. 50.86	...	50.63	...	...	.....	.....	.....						

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 2, 4, and 23, — 28.97 : — 28.97 : and — 28.99.

6, 8. Observed over wires M, N, O, P and Q.

7. Observed over wires V, W, X, Y and Z.

9, 12, 13, 26 to 32, 34. Cloudy.

19. Observed over wire T with the transit-micrometer set to readings 34.7.600, 34.7.800, 35.7.000, 35.7.200, 35.7.400, 35.7.800, 36.7.000, 36.7.200, 36.7.400, 36.7.600.

24. Observed over wire T with the transit-micrometer set to readings 37.7.349, 37.7.745, 37.7.591, 37.7.586, 37.7.530, 37.7.465, 37.7.380, 37.7.341, 37.7.283, 37.7.209.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
																							h	m	s
May 16	1	Groombridge 2271	B	...	...	...	...	...	...	26.1	34.0	41.6	49.9	15.38. 3.06	+ 0.81	1.98			4.01	15.38. 6.01	- 4.98				
	2	Groombridge 2286	B	...	...	...	...	...	...	35.9	54.9	14.1	32.9	15.38. 38.35	(- 4.02)	35.35			[+ 0.03]	15.38. 39.38	- 9.80				
	3	χ Herculis	B	43.8	47.3	50.9	57.3	0.9	4.2	14.1	17.3	20.8	24.1	15.49. 4.10	[+ 6.12]	3.88				15.49. 7.91	- 3.15				
	4	β Scorpil	B	6.2	8.9	11.6	16.7	19.4	22.0	29.9	32.4	35.1	37.8	15.59. 22.03		22.41	26.37	3.96		15.59. 26.44	- 3.15				
May 17	5	⊙ 1 L.	AC	29.1	31.9	34.4	39.5	42.1	44.8	52.7	55.2	58.0	0.5	3.37. 44.85	(- 3.41)				4.13	3.38. 56.44					
	6	⊙ 2 L.	AC	43.9	46.3	49.1	54.3	57.1	59.8	7.5	10.0	12.6	15.2	3.39. 59.61											
May 18	7	⊙ 1 L.	AC	28.0	30.6	33.3	38.6	41.1	43.8	51.8	54.3	57.0	59.8	3.41. 43.86	+ 0.70				3.93	3.42. 55.15					
	8	⊙ 2 L.	AC	42.9	45.4	48.1	53.5	55.9	58.5	6.5	9.1	11.8	14.2	3.43. 58.62	(- 4.98)				[- 0.08]						
	9	f Virginis	AC	9.4	11.9	14.1	19.1	21.8	24.1	31.6	34.0	36.5	39.0	12.31. 24.17	[+ 6.55]	24.40				12.31. 28.29	- 2.41				
	10	B.D. + 72° No. 38 S.P.	AC	19.8	28.1	36.4	44.8	9.5	17.7	26.0	42.1	50.5	58.6	12.40. 9.27		10.94				0.40. 14.83	+ 2.39				
	11	Carrington 124 S.P.	AC	43.5	7.5	32.6	55.9	6.8	31.1	54.7	41.5	6.4	29.5	12.52. 6.72	+ 1.03	11.30				0.52. 15.19	+ 10.32				
	12	θ Virginis	R. AC	16.9	19.6	...	26.9	29.5	...	...	...	...	...	13.4. 31.92		32.54	36.38	3.84		.....					
	13	Polaris S.P.	AC	7.4	17.0	24.0	55.4	2.1	10.1	16.9	43.4	50.5	1.2	13.19. 31.89	+ 0.70	54.32	58.21	3.89		.....					
	14	m Virginis	AC	...	...	...	...	...	7.7	15.0	17.6	20.0	22.5	13.36. 7.62		7.88	11.78	3.90		.....					
	15	Bradley 282 S.P.	AC	46.0	54.1	2.9	11.6	37.8	46.7	55.5	12.2	21.6	29.9	14.3. 37.75		39.53				2.3. 43.41	- 2.68				
	16	Arcturus	B	38.2	40.9	43.7	48.9	51.5	54.0	2.1	4.5	7.1	9.8	14.10. 54.10		54.09	57.91	3.82	3.91†	.....					
	17	ρ Boötis	B	...	...	...	14.3	17.1	20.1	28.8	31.6	34.6	37.4	14.27. 20.15		20.01	23.90	3.89		.....					
	18	ζ Boötis	R. AC	54.0	56.6	59.4	4.2	6.7	9.3	...	...	...	...	14.36. 9.35		9.95			3.93	14.36. 13.83	- 2.90				
	19	8 Libræ	AC	39.2	41.8	44.5	49.6	...	...	...	...	...	...	14.44. 54.75		55.08				14.44. 58.96	- 2.96				
	20	α Libræ	AC	...	53.4	56.0	...	3.5	6.1	13.8	16.2	19.0	21.4	14.45. 6.14		6.47	10.37	3.90		.....					
	21	Saturn 1 L.	AC	12.2	15.1	17.6	22.7	...	...	...	...	...	...	14.52. 27.71						14.52. 32.56					
	22	Saturn 2 L.	AC	13.6	16.3	18.9	24.0	...	...	...	...	...	...	14.52. 29.01											
	23	Carrington 2363	AC	17.5	32.6	50.3	6.5	22.2	49.9	5.5	22.8	38.8	55.6	15.29. 6.17		55.66				15.28. 59.54	- 25.14				
	24	Carrington 504 S.P.	AC	1.1	9.5	17.5	59.4	8.1	16.9	...	...	...	...	15.32. 38.75		42.96				3.32. 46.84	+ 7.30				
	25	α Serpentis	AC	52.6	55.1	57.7	2.5	5.1	7.6	14.9	17.5	20.0	22.5	15.39. 7.57		7.69	11.61	3.92		.....					
	26	Lalande F. 593 S.P.	AC	...	8.9	24.6	40.0	27.4	42.9	58.9	29.5	45.2	...	15.45. 27.03		30.19				3.45. 34.07	+ 4.84				
	27	Carrington 2405	AC	49.6	6.4	24.3	58.5	15.8	32.9	25.7	42.5	0.4	16.6	15.55. 33.44		30.22				15.55. 34.10	- 8.58				
	28	Carrington 577 S.P.	AC	...	34.5	...	9.4	0.5	17.9	34.4	...	25.7	...	16.1. 0.23		3.70				4.1. 7.58	+ 5.10				
	29	δ Ophiuchi	AC	37.8	40.1	42.5	47.6	50.0	52.5	0.1	2.4	4.9	7.4	16.8. 52.55		52.77	56.61	3.84		.....					
	30	Piazzi XVI. 35	AC	38.1	41.3	44.1	50.0	52.9	55.9	4.5	7.2	10.0	13.0	16.12. 55.73		56.23				16.13. 0.11	- 3.43				
	31	Piazzi XVI. 36	AC	39.6	42.5	45.5	51.1	54.1	57.1	5.8	8.3	11.2	14.1	16.12. 56.96		57.46				16.13. 1.34	- 3.43				
May 19	32	⊙ 1 L.	DE	27.3	30.1	32.6	38.0	40.5	43.1	51.0	53.7	56.3	58.9	3.45. 43.18	[+ 7.15]				3.77	3.46. 54.44					
	33	⊙ 2 L.	DE	42.2	44.9	47.7	52.9	55.4	58.1	6.0	8.7	11.5	13.9	3.47. 58.16					[- 0.09]						
	34	Pollux	DE	37.8	40.5	43.4	49.1	51.9	54.7	3.0	5.9	8.7	11.5	7.38. 54.68		54.59	58.32	3.73		7.38. 58.33	- 1.18				
	35	γ Leonis	DE	56.9	59.5	2.0	7.2	10.0	12.6	20.4	23.1	25.9	28.3	10.14. 12.62		12.62	16.33	3.71		10.14. 16.35	- 1.99				
	36	ψ Ursæ Majoris	DE	27.5	30.9	34.4	...	...	48.4	...	2.2	5.9	9.4	11.3. 48.42		48.09				11.3. 51.82	- 2.79				
	37	δ Leonis	DE	17.4	20.0	22.6	...	...	33.2	...	43.8	46.3	49.0	11.8. 33.21		33.21	36.95	3.74		11.8. 36.94	- 2.28				
	38	ν Ursæ Majoris	DE	32.9	35.8	38.9	44.5	47.6	50.6	59.7	2.3	5.5	8.3	11.12. 50.64		50.48				11.12. 54.21	- 2.54				
	39	ι Leonis	DE	13.5	16.0	18.5	23.5	26.0	28.5	36.0	38.5	41.1	43.6	11.18. 28.54		28.64				11.18. 32.37	- 2.20				
	40	λ Draconis	DE	32.9	40.0	47.3	1.5	8.6	16.0	37.4	44.5	51.9	59.0	11.25. 15.98		14.75				11.25. 18.48	- 4.63				
	41	γ Cephei S.P.	DE	59.7	0.5	11.6	22.5	55.5	...	...	...	...	...	11.34. 55.46		57.83				23.35. 1.56	+ 3.17				
	42	1 Comæ	DE	7.5	10.1	12.9	18.1	20.9	23.6	31.6	34.1	36.9	39.6	11.56. 23.56		23.54				11.56. 27.27	- 2.53				
	43	Bradley 1634	DE	...	...	...	...	...	25.3	1.5	13.5	25.7	36.8	12.7. 25.28		22.98				12.7. 26.70	- 7.29				
	44	Bradley 1672	DE	39.0	46.1	59.4	4.4	16.5	21.7	35.0	40.0	52.2	58.0	12.15. 16.60		59.81				12.15. 3.53	- 40.70				
	45	21 Cassiopeia S.P.	DE	...	...	...	...	...	38.3	47.6	56.9	15.1	24.1	33.5	12.38. 38.32		40.31			0.38. 44.03	+ 2.79				
	46	35 Virginis	H	...	20.0	22.5	27.4	30.0	32.5	39.9	42.2	44.8	...	12.42. 32.43		32.60	36.15	3.55	3.63†	.....					
	47	35 Virginis (R&E)	H	51.4	6.2	21.1	...	51.1	5.6	20.5	...	...	...	12.42. 31.95		32.12	36.15	4.03		.....					
	48	31 Comæ	H	...	23.3	26.1	31.6	34.4	37.2	45.6	48.5	51.2	...	12.46. 37.27		37.18	40.78	3.60		.....					
	49	31 Comæ (R&E)	H	50.4	7.4	24.1	...	57.7	14.5	31.3	...	...	...	12.46. 36.88		36.79	40.78	3.99		.....					
	50	δ Virginis	DE	5.8	8.1	10.6	15.5	18.0	20.5	28.0	30.4	32.9	35.3	12.50. 20.53		20.70	24.38	3.68	3.77	12.50. 24.42	- 2.54				
	51	Polaris S.P.	DE	8.4	14.7	19.8	25.5	30.6	36.1	41.1	47.1	51.9	56.9	13.19. 33.69		57.29	58.82	1.53		1.20. 1.01	+ 55.03				

For Nos. 11 and 12. Reading of Transit-Micrometer 35".591.

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 47 and 49, — 4".05 and — 4".05.

10. Faint. Observed in partially illuminated field.

13. Observed over wire T with the transit-micrometer set to readings 37".396, 37".312, 37".249, 36".983, 36".912, 36".855, 36".796, 36".559, 36".485, 36".389.

21, 22. Faint; cloudy.

23. Observed over wire T with the transit-micrometer set to readings 33".600, 33".900, 34".200, 34".500, 34".800, 36".400, 36".700, 37".000, 37".300, 37".600.

24. Observed over wire T with the transit-micrometer set to readings 37".400, 37".000, 36".600, 34".600, 34".200, 33".800.

27, 28, 30, 31. Observed in dark field with wires illuminated.

44. Observed over wire S with the transit-micrometer set to readings 35".419, 35".508, 35".675, 35".728, 35".894, 35".950, 36".103, 36".159, 36".328, 36".380.

51. Observed over wire T with the transit-micrometer set to readings 36".866, 36".825, 36".775, 36".734, 36".686, 36".633, 36".581, 36".544, 36".505, 36".448.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GGA.M.M.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
May 19	1	h Virginis	DE	12.9	15.4	18.0	22.9	25.5	28.0	35.5	38.0	40.4	42.9	13. 27. 27.97	+ 0.70	28.27			3.77	13. 27. 31.99	- 2.65
	2	25 Canum Venaticum	DE	31.5	34.5	37.5	43.9	46.9	50.0	59.2	2.1	5.4	8.4	13. 32. 49.97	(- 4.98)	49.77			[- 0.09]	13. 32. 53.49	- 3.09
	3	7 Boötis	DE	...	...	...	...	15.8	18.2	26.0	28.6	31.3	33.9	13. 42. 18.31	[+ 7.15]	18.34	21.98	3.64		13. 42. 22.06	- 2.82
	4	7 Boötis	DE	...	...	...	...	...	...	50.9	53.5	56.1	58.7	13. 49. 43.10		43.12	46.79	3.67		13. 49. 46.84	- 2.85
	5	94 Virginis	DE	31.0	...	36.0	41.0	43.5	46.0	53.5	56.0	...	0.9	14. 0. 46.01		46.31	50.03	3.72		14. 0. 50.03	- 2.79
	6	94 Virginis (E&E)	DE	5.0	20.0	...	...	...	20.0	35.0	...	...	...	14. 0. 45.97		46.27	50.03	3.76		.....	
	7	d Boötis.....	DE	22.1	24.9	27.7	33.1	35.9	38.6	46.9	49.6	52.2	55.1	14. 5. 38.64		38.58				14. 5. 42.30	- 2.96
	8	l Boötis.....	DE	4.1	7.9	11.5	18.6	22.1	25.8	36.5	40.1	43.8	47.3	14. 12. 25.81		25.45				14. 12. 29.17	- 3.39
	9	Bradley 332 S.P...	DE	45.6	51.9	58.1	4.1	23.0	...	...	...	...	...	14. 20. 23.13		24.48				2. 20. 28.20	+ 1.41
	10	ρ Boötis	DE	3.0	5.9	8.8	14.5	17.4	20.1	28.9	31.8	34.6	37.5	14. 27. 20.28		20.15	23.90	3.75		14. 27. 23.87	- 3.05
	11	Bradley 344 S.P..	DE	...	...	...	47.1	34.7	50.8	6.6	...	...	...	14. 32. 34.65		38.03				2. 32. 41.75	+ 5.90
	12	ζ Boötis	DE	...	...	59.9	4.9	7.4	10.0	17.7	20.1	...	...	14. 36. 10.02		10.09				14. 36. 13.81	- 2.90
	13	B.D. + 66° No.870	DE	7.3	13.1	19.1	31.5	37.4	43.5	1.6	7.6	13.8	19.8	14. 45. 43.53		42.55				14. 45. 46.26	- 4.51
	14	Saturn 1 L.	DE	55.5	58.0	0.6	5.5	8.0	10.7	18.2	20.9	23.5	26.0	14. 52. 10.71		11.67				14. 52. 15.38	
	15	Saturn 2 L.	DE	56.6	59.2	1.8	6.8	9.3	12.0	19.6	22.1	24.6	27.2	14. 52. 11.94							
	16	Groombridge2213	DE	...	...	...	30.9	55.5	20.7	35.9	...	...	...	15. 2. 20.99			16.01			15. 2. 19.72	- 13.11
	17	Groombridge2283	DE	54.3	15.1	33.6	42.0	57.7	6.9	23.8	34.2	48.9	58.8	15. 11. 19.29		7.13				15. 11. 10.84	- 28.49
	18	5 Serpentis	DE	44.3	46.9	49.3	54.1	56.6	59.3	6.5	9.0	11.5	14.0	15. 13. 59.17		59.36				15. 14. 3.07	- 2.95
	19	Uranus	DE	5.9	8.4	11.0	16.1	18.8	21.4	29.2	31.8	34.4	37.1	15. 19. 21.44		21.84				15. 19. 25.55	
	20	Carrington 2363..	DE	43.4	50.8	8.6	14.7	33.8	41.1	55.1	1.9	15.3	22.1	15. 29. 6.40		55.37				15. 28. 59.08	- 25.07
	21	α Serpentis	DE	52.8	55.3	57.8	2.6	5.2	7.8	15.1	17.6	20.1	22.5	15. 39. 7.70		7.85	11.62	3.77		15. 39. 11.56	- 2.95
	22	α Serpentis(E&E)	DE	26.6	41.7	...	...	...	41.5	56.5	...	...	...	15. 39. 7.53		7.68	11.62	3.94		.....	
	23	18 Ursæ Minoris.	DE	...	...	28.9	57.4	12.3	27.1	11.1	25.5	...	...	15. 45. 27.19		24.37				15. 45. 28.08	- 7.70
	24	χ Herculis.....	DE	44.2	47.6	51.1	57.8	1.1	4.4	14.5	17.8	21.1	24.5	15. 49. 4.44		4.15				15. 49. 7.86	- 3.17
	25	τ Herculis.....	DE	17.4	20.0	22.6	27.9	30.3	33.0	40.8	43.3	46.0	48.6	15. 56. 33.02		33.04				15. 56. 36.75	- 2.93
	26	Carrington 577 S.P.	DE	...	...	...	9.4	0.6	17.7	34.9	...	...	...	16. 1. 0.48		4.16				4. 1. 7.87	+ 5.07
	27	Bradley 2060.....	DE	29.9	32.2	35.0	40.1	42.6	45.3	52.9	55.8	58.2	0.8	16. 6. 45.31		45.35				16. 6. 49.06	- 2.92
	28	Groombridge2332	DE	1.9	6.8	12.0	21.6	26.5	31.6	46.4	51.1	56.1	1.0	16. 15. 31.55		30.83				16. 15. 34.54	- 3.59
	29	λ Ophiuchi	DE	24.1	26.6	29.2	34.0	36.5	39.1	46.4	48.9	51.5	53.9	16. 25. 39.04		39.23	42.97	3.74		16. 25. 42.94	- 2.96
	30	ζ Ophiuchi	DE	9.8	12.3	14.8	19.8	22.2	24.7	32.2	34.9	37.4	40.0	16. 31. 24.83		25.14	28.92	3.78		16. 31. 28.85	- 3.08
	31	ζ Herculis.....	DE	3.8	6.7	9.6	15.3	18.2	21.2	30.0	32.7	35.6	38.5	16. 37. 21.19		21.06	24.78	3.72		16. 37. 24.77	- 2.88
	32	ζ Herculis.(E&E)	DE	32.7	50.3	...	...	...	0.0	17.5	...	...	...	16. 37. 21.07		20.94	24.78	3.84		.....	
	33	Polaris	B	44.1	2.6	11.6	24.9	48.4	57.8	6.1	27.2	40.1	49.6	1. 20. 19.07	(- 4.23)	57.64	59.12	1.48	3.73 [- 0.09]	1. 20. 1.37	+ 54.73
May 20	34	β Leonis.....	B	28.5	31.0	33.6	38.6	41.1	43.8	51.5	54.1	56.6	59.1	11. 43. 43.82	(- 2.77)	44.00	47.59	3.59		11. 43. 47.69	- 2.35
	35	γ Ursæ Majoris...	B	...	0.6	4.8	13.3	17.5	21.8	34.2	38.6	42.6	...	11. 48. 21.72		21.44				11. 48. 25.13	- 3.38
	36	α Virginis	B	23.1	...	...	48.2	50.6	53.1	...	3.2	5.8	8.2	11. 59. 53.20		53.43	57.02	3.59		11. 59. 57.12	- 3.36
	37	δ Ursæ Majoris...	B	49.5	54.0	58.7	8.0	12.5	17.1	31.1	35.5	40.1	44.9	12. 10. 17.18		16.83				12. 10. 20.51	- 3.67
	38	Groombridge1879	B	48.1	0.9	12.3	24.1	47.7	59.1	11.9	23.6	...	...	12. 16. 35.96		32.49				12. 16. 36.17	- 12.63
	39	γ Comæ.....	B	27.5	30.1	33.1	38.6	41.5	44.3	52.8	55.5	58.5	1.2	12. 21. 44.34		44.40				12. 21. 48.08	- 2.73
	40	β Canum Venaticum	B	27.9	31.1	34.3	41.0	44.2	47.7	57.7	0.9	4.1	7.5	12. 28. 47.67		47.59				12. 28. 51.27	- 3.03
	41	23 Comæ	B	...	...	...	...	...	47.1	49.9	52.5	55.2	...	12. 29. 39.14		39.25				12. 29. 42.93	- 2.67
	42	α Cassiopeiae S.P.	B	4.9	9.4	13.8	18.1	31.5	35.8	40.1	49.0	53.4	58.0	12. 34. 31.36		32.19				0. 34. 35.87	+ 0.33
	43	B.D. + 80° No.17 S.P.	B	...	...	...	13.5	56.8	11.8	27.2	...	...	...	12. 36. 57.19		59.76				0. 37. 3.44	+ 5.38
	44	Groomb. 135 S.P.	B	...	...	...	...	48.9	53.5	57.3	6.0	10.1	14.4	12. 39. 48.96		49.75				0. 39. 53.43	+ 0.27
	45	Groomb. 139 S.P.	B	...	...	...	...	37.6	41.9	46.1	54.4	58.8	3.3	12. 40. 37.55		38.35				0. 40. 42.03	+ 0.28
	46	ε Ursæ Majoris ...	B	0.9	5.2	9.9	18.6	23.1	27.6	41.1	45.5	50.0	54.5	12. 49. 27.68		27.34				12. 49. 31.02	- 3.73
	47	Piazzi 0. 248 S.P.	B	...	...	54.2	58.9	12.9	17.5	22.0	31.4	...	...	12. 54. 12.77		13.64				0. 54. 17.32	+ 0.51
	48	ε Virginis	B	43.5	46.1	48.7	53.7	56.1	58.7	6.2	8.7	11.3	13.9	12. 56. 58.71		58.92	2.60	3.68		12. 57. 2.60	- 2.62
	49	μ Cassiopeiae S.P.	B	51.1	55.2	59.7	3.7	16.3	20.6	24.8	33.4	37.7	42.0	13. 1. 16.42		17.21				1. 1. 20.89	+ 0.17
50	Bradley 155 S.P.	B	...	35.4	...	...	30.2	41.7	...	15.0	...	...	13. 11. 30.53		32.48				1. 11. 36.16	+ 3.70	
51	Groomb. 285 S.P.	B	...	...	...	53.8	20.0	28.8	38.4	...	...	...	13. 13. 20.16		21.78				1. 13. 25.46	+ 2.71	
52	Piazzi I. 52 S.P...	B	...	...	...	38.6	0.8	8.1	15.5	...	...	...	13. 18. 0.68		2.03				1. 18. 5.71	+ 1.92	
53	Polaris S.P.	B	52.6	3.9	13.4	20.2	27.3	46.9	54.2	0.1	12.1	23.6	13. 19. 37.43		55.82	59.45	3.63		1. 19. 59.50	+ 54.40	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 6, 22, and 32, — 4^s.06 : — 4^s.07 : and — 4^s.09.

17. Observed over wire R with the transit-micrometer set to readings 34^r.186, 34^r.543, 34^r.832, 35^r.002, 35^r.253, 35^r.404, 35^r.697, 35^r.861, 36^r.080, 36^r.276.
20. Observed over wire R with the transit-micrometer set to readings 34^r.961, 35^r.135, 35^r.442, 35^r.542, 35^r.909, 36^r.035, 36^r.305, 36^r.436, 36^r.681, 36^r.784.
33. Observed over wire X with the transit-micrometer set to readings 33^r.546, 33^r.710, 33^r.780, 33^r.937, 35^r.691, 35^r.780, 35^r.840, 36^r.031, 36^r.155, 36^r.229.
36. Observed over wires N, R, S, T, V, W and X. 37, 38, 41, 50. Cloudy.
38. Observed over wire T with the transit-micrometer set to readings 33^r.600, 34^r.100, 34^r.600, 35^r.100, 36^r.100, 36^r.600, 37^r.100, 37^r.600.
53. Observed over wire T with the transit-micrometer set to readings 36^r.000, 35^r.900, 35^r.800, 35^r.750, 35^r.700, 35^r.500, 35^r.450, 35^r.400, 35^r.300, 35^r.200.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.											
																						h	m	s
May 20	1	Groombridge 2065	B	41.1	46.3	55.0	3.6	11.1	26.9	33.4	40.9	47.6	54.5	13. 28. 18.04	+ 0.70	6.51			3.73	13. 28. 10.19	- 38.13			
	2	Carrington 2037..	B	...	...	...	...	...	...	12.5	33.1	52.9	12.2	13. 32. 11.46	(- 2.77)	8.49			[- 0.09]	13. 32. 12.17	- 11.68			
	3	η Ursæ Majoris ..	B	3.6	7.4	11.4	18.8	22.7	26.5	38.0	41.6	45.6	49.6	13. 43. 26.56	[+ 7.15]	26.36				13. 43. 30.04	- 3.49			
	4	Lalande 25500 ...	B	2.1	...	8.1	14.1	17.1	20.2	29.3	32.2	...	38.2	13. 45. 20.19		20.19				13. 45. 23.87	- 3.08			
	5	B. F. 1904	B	10.2	13.3	16.3	22.4	25.4	28.5	37.5	40.5	43.8	46.6	13. 46. 28.48		28.48				13. 46. 32.16	- 3.08			
	6	η Boötis	B	27.2	29.9	32.5	37.8	40.2	42.9	50.8	53.3	56.0	58.6	13. 49. 42.95		43.10	46.79	3.69		13. 49. 46.78	- 2.85			
	7	τ Virginis	B	5.1	7.6	10.1	15.0	17.5	20.0	27.4	29.9	32.1	34.6	13. 56. 19.95		20.24	23.91	3.67		13. 56. 23.92	- 2.77			
	8	B.D.+63° No. 305 S.P.	B	17.4	23.4	29.1	34.4	51.1	56.7	2.4	13.4	18.9	25.0	14. 5. 51.13		52.17				2. 5. 55.85	+ 1.06			
	9	χ Persei S.P.	B	13.2	17.9	22.4	26.9	40.3	45.3	49.6	58.5	3.2	7.8	14. 10. 40.47		41.32				2. 10. 45.00	+ 0.53			
	10	Carrington 2170..	B	12.0	18.4	23.9	29.5	34.2	46.1	51.8	58.1	3.9	8.7	14. 22. 40.66		36.37				14. 22. 40.05	- 15.38			
	11	5 Ursæ Minoris R.	B	45.6	55.5	6.0	26.9	37.4	47.7	...	...	...	...	14. 27. 47.53		47.61				14. 27. 51.29	- 6.59			
	12	5 Ursæ Minoris...	B	...	...	...	...	...	...	19.8	29.9	40.2	50.5	14. 27. 48.83		47.49				14. 27. 51.17	- 6.59			
	13	Groomb. 2140...R.	B	51.5	1.9	...	...	...	...	...	...	...	...	14. 31. 57.15		57.19				14. 32. 0.87	- 6.89			
	14	Groomb. 2140.....	B	...	...	...	...	...	...	31.4	42.3	53.6	4.6	14. 31. 58.73		57.27				14. 32. 0.95	- 6.89			
	15	Groombridge 2152	B	42.1	45.5	48.6	54.9	58.0	1.3	...	...	...	...	14. 45. 1.17		1.14				14. 45. 4.81	- 3.16			
	16	B.D.+66° No. 870	B	...	...	...	...	...	...	31.1	37.3	43.4	1.5	...		42.77				14. 45. 46.44	- 4.50			
	17	Saturn 1 L.	B	38.5	41.0	43.6	48.6	51.2	53.9	1.3	3.9	6.2	9.0	14. 51. 53.74										
	18	Saturn 2 L.	B	40.0	42.2	44.9	50.0	52.5	55.1	2.6	5.2	7.6	10.2	14. 51. 55.05										
	19	ω Boötis	R.	42.8	59.0	15.4	18.0	20.9	...	...	...	...	...	14. 57. 31.83		32.30				14. 57. 35.97	- 3.00			
	20	ω Boötis	B	...	...	...	...	...	...	46.0	48.8	5.1	21.6	14. 57. 32.40		32.49				14. 57. 36.16	- 3.00			
	21	Oeltz. Arg. (N.) 3493 S.P.	B	...	...	2.0	6.2	20.1	25.0	29.5	38.6	...	...	15. 3. 20.19		21.04				3. 3. 24.71	+ 0.47			
	22	Groomb. 618 S.P.	B	...	...	...	56.6	8.6	12.7	16.5	...	...	...	15. 4. 8.56		9.30				3. 4. 12.97	+ 0.20			
	23	Carrington 2286..	B	15.7	27.9	38.7	50.0	12.3	24.0	35.3	47.0	...	...	15. 9. 1.36		58.03				15. 9. 1.70	- 11.79			
	24	ζ Serpentis	B	...	...	...	...	43.9	46.3	54.1	56.6	59.1	1.9	15. 16. 46.45		46.64				15. 16. 50.31	- 2.95			
	25	B.D.-19° No. 4096	B	...	...	...	...	...	...	3.0	5.9	8.2	24.0	15. 17. 52.66		53.12				15. 17. 56.79	- 3.12			
	26	Oeltz. Arg. (S.) 14520	B	...	...	...	...	...	...	34.1	36.7	52.5	8.1	15. 18. 21.08		21.54				15. 18. 25.21	- 3.12			
	27	B.D.-19° No. 4100	B	...	...	...	...	...	...	17.7	25.4	27.9	30.7	15. 19. 17.57		18.03				15. 19. 21.70	- 3.12			
	28	Piazzi XV. 71 ...	B	0.0	2.6	5.5	10.6	13.3	16.0	24.0	26.5	29.2	32.0	15. 22. 16.00		16.47				15. 22. 20.14	- 3.15			
	29	Carrington 2363..	B	20.0	31.4	42.4	53.0	13.3	24.5	37.0	47.4	...	...	15. 29. 3.63		55.22				15. 28. 58.89	- 24.99			
	30	Groomb. 642 S.P.	B	32.6	40.7	48.1	56.1	2.8	18.9	26.5	35.0	42.7	50.3	15. 32. 11.37		17.75				3. 32. 21.42	+ 14.60			
	31	Lalande F. 2690..	B	47.4	55.3	3.3	11.2	27.6	35.5	43.1	51.5	...	...	15. 36. 19.36		17.10				15. 36. 20.77	- 8.39			
	32	Groomb. 732 S.P.	B	...	...	...	...	...	21.0	25.0	29.2	37.0	41.0	15. 39. 21.15		21.89				3. 39. 25.56	+ 0.09			
	33	2 Scorpii	B	...	...	10.1	15.5	18.2	21.1	29.2	31.9	...	...	15. 47. 21.03		21.54				15. 47. 25.21	- 3.28			
	34	Piazzi III. 177 S.P.	B	...	...	...	53.5	9.4	15.0	20.4	...	...	...	15. 48. 9.53		10.55				3. 48. 14.22	+ 0.61			
	35	A Persei S.P.	B	...	...	...	...	48.0	52.0	55.9	3.5	7.4	11.3	15. 48. 48.05		48.77				3. 48. 52.44	+ 0.03			
	36	Piazzi III. 160 S.P.	B	...	...	...	...	...	42.5	57.5	26.4	41.6	56.9	15. 52. 27.53		30.12				3. 52. 33.79	+ 4.31			
	37	Groombridge 2315	B	...	...	...	...	...	22.1	25.1	45.5	7.5	28.0	15. 54. 22.15		19.07				15. 54. 22.74	- 10.06			
	38	Groomb. 771 S.P.	B	...	...	...	43.9	9.3	18.0	26.5	...	...	...	15. 57. 9.35		10.91				3. 57. 14.58	+ 1.78			
	39	Groombridge 2302	B	...	...	9.8	17.9	22.0	26.1	38.5	42.7	...	...	15. 59. 26.21		25.96				15. 59. 29.63	- 3.39			
	40	Groombridge 2306	B	...	...	...	...	...	...	16.0	20.7	25.7	30.6	16. 0. 1.18		0.76				16. 0. 4.43	- 3.69			
	41	Lalande 29338 ...	B	...	...	...	1.4	4.0	6.5	14.2	16.9	19.5	22.1	16. 2. 6.57		7.02				16. 2. 10.69	- 3.19			
	42	Groomb. 799 S.P.	B	53.1	57.0	0.9	4.9	16.5	20.1	24.1	32.0	35.9	39.9	16. 9. 16.40		17.12				4. 9. 20.79	- 0.04			
	43	Groomb. 803 S.P.	B	57.5	1.5	5.5	8.9	20.2	26.5	30.3	35.9	39.8	43.5	16. 11. 19.92		20.63				4. 11. 24.30	- 0.07			
	44	Radcliffe 196 S.P.	B	...	...	...	...	...	...	19.0	23.1	26.9	50.0	16. 13. 3.83		4.54				4. 13. 8.21	- 0.08			
	45	Groomb. 807 S.P.	B	...	...	22.7	34.2	8.0	19.3	30.6	52.9	...	...	16. 17. 7.84		9.87				4. 17. 13.54	+ 2.55			
	46	Groomb. 828 S.P.	B	...	...	48.9	56.2	20.8	28.8	36.9	53.1	...	...	16. 21. 20.70		22.19				4. 21. 25.86	+ 1.35			
	47	Groomb. 836 S.P.	B	...	...	13.3	21.1	44.5	52.5	0.2	16.0	...	...	16. 25. 44.52		45.97				4. 25. 49.64	+ 1.20			
	48	B.D.-14° No. 4443	B	29.1	31.5	34.0	39.2	41.8	44.2	52.0	54.4	57.0	59.7	16. 27. 44.31		44.73				16. 27. 48.40	- 3.16			
	49	Groomb. 847 S.P.	B	51.4	56.0	0.2	4.9	18.0	22.7	26.9	35.5	40.2	44.9	16. 30. 18.03		18.87				4. 30. 22.54	+ 0.04			
	50	Piazzi XVI. 136..	B	44.1	46.5	49.2	54.2	56.9	59.5	...	...	...	...	16. 32. 59.37		59.57				16. 33. 3.24	- 2.91			
	51	Lalande 30264 ...	B	...	...	...	44.2	47.0	49.5	57.3	59.7	2.2	4.9	16. 33. 49.49		49.93				16. 33. 53.60	- 3.19			
	52	Groomb. 861 S.P.	B	...	...	13.4	23.6	53.1	2.9	13.1	32.4	...	...	16. 38. 52.98		54.76				4. 38. 58.43	+ 1.72			
	53	Groombridge 2374	B	...	...	33.1	41.9	46.1	50.6	3.9	8.0	...	...	16. 40. 50.64		50.32				16. 40. 53.99	- 3.27			
	54	Piazzi IV. 170 S.P.	B	43.1	48.6	54.1	59.7	16.3	21.9	27.4	38.1	43.9	49.4	16. 42. 16.20		17.24				4. 42. 20.91	+ 0.27			

1. Observed over wire T with the transit-micrometer set to readings 35° 100, 35° 200, 35° 300, 35° 400, 35° 500, 35° 700, 35° 800, 35° 900, 36° 000, 36° 100.

2. Very faint.

2, 25, 26, 27. Observed in dark field with wires illuminated.

8. Observed in partially illuminated field.

10. Observed over wire T with the transit-micrometer set to readings 34° 600, 34° 800, 35° 000, 35° 200, 35° 400, 35° 800, 36° 000, 36° 200, 36° 400, 36° 600.

19. Observed over wires M, N, O, P and Q.

23, 31. Observed over wire T with the transit-micrometer set to readings 33° 600, 34° 100, 34° 600, 35° 100, 36° 100, 36° 600, 37° 100, 37° 600.

25. Observed over wires V, W, X and Y.

29. Observed over wire T with the transit-micrometer set to readings 34° 800, 35° 000, 35° 200, 35° 400, 35° 300, 36° 000, 36° 200, 36° 400.

30. Observed over wire T with the transit-micrometer set to readings 36° 600, 36° 400, 36° 200, 36° 000, 35° 800, 35° 400, 35° 200, 35° 000, 34° 800, 34° 600.

44. Observed over wires Q, P, O and N.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].								
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s							
May 20	1	ε Herculis	B	0.2	3.2	6.0	11.9	14.8	17.7	26.1	29.2	32.0	34.9	16. 56. 17.63	+ 0.70	17.66	21.41	3.75	3.73	16. 56. 21.33	- 2.84			
	2	Hebe	B	19.1	21.5	24.1	29.0	31.5	33.9	41.4	43.8	46.1	48.7	16. 57. 33.93	(- 2.77)	34.23			[- 0.09]	16. 57. 37.90	- 2.86			
	3	c Herculis	B	...	...	...	...	42.1	45.3	54.3	57.2	0.3	3.5	16. 59. 45.22	[+ 7.15]	45.22				16. 59. 48.89	- 2.86			
	4	Groomb. 927 S.P.	B	15.7	19.9	24.1	28.0	40.5	44.5	48.9	56.9	1.3	5.3	17. 1. 40.47		41.24				5. 1. 44.91	- 0.24			
	5	Groomb. 933 S.P.	B	...	...	13.5	17.3	29.6	34.0	38.0	46.2	...	...	17. 3. 29.73		30.50				5. 3. 34.17	- 0.25			
	6	63 Herculis	B	27.5	30.1	32.9	...	...	...	...	54.6	57.4	0.0	17. 6. 43.78		43.89				17. 6. 47.56	- 2.82			
	7	Piazzi XVII. 15 ..	B	41.3	44.0	46.9	...	...	...	...	8.2	11.1	13.9	17. 6. 57.60		57.71				17. 7. 1.38	- 2.82			
	8	Groomb. 931 S.P.	B	...	...	51.5	3.7	39.9	52.5	4.6	28.9	...	...	17. 9. 40.06		42.22				5. 9. 45.89	+ 1.87			
	9	Bradley 2182	B	...	...	...	...	...	...	53.1	56.0	58.6	1.3	17. 11. 45.14		45.64				17. 11. 49.31	- 3.34			
	10	Groomb. 960 S.P.	B	30.1	34.2	38.5	42.6	55.0	59.3	2.9	11.5	16.0	20.0	17. 18. 54.97		55.74				5. 18. 59.41	- 0.35			
	11	Groomb. 968 S.P.	B	53.8	57.9	2.0	6.1	18.6	22.3	26.4	34.8	39.1	43.1	17. 22. 18.37		19.14				5. 22. 22.80	- 0.38			
	12	20 Camelopardi S.P.	B	8.4	13.1	17.6	22.0	35.3	39.9	44.0	53.0	57.4	2.0	17. 28. 35.23		36.07				5. 28. 39.73	- 0.35			
	13	Groomb. 990 S.P.	B	38.1	41.9	45.6	49.7	1.3	5.3	9.4	17.5	21.2	25.3	17. 30. 1.49		2.23				5. 30. 5.89	- 0.44			
	14	Groomb. 1002 S.P.	B	30.7	35.1	39.4	43.7	56.5	0.8	5.1	13.4	18.0	22.0	17. 33. 56.43		57.23				5. 34. 0.89	- 0.43			
	15	Piazzi XVII. 191	B	...	...	...	...	...	...	31.1	33.9	36.7	39.4	17. 35. 23.12		23.23				17. 35. 26.89	- 2.73			
	16	Groomb. 1017 S.P.	B	18.8	22.8	26.9	30.6	42.5	46.6	50.7	58.1	2.2	6.2	17. 38. 42.50		43.24				5. 38. 46.90	- 0.51			
	17	Groomb. 1021 S.P.	B	...	...	17.1	20.9	32.7	36.8	40.6	48.5	...	...	17. 41. 32.73		33.47				5. 41. 37.13	- 0.53			
	18	Groomb. 1024 S.P.	B	12.9	16.8	20.9	24.9	36.8	40.6	44.8	52.2	56.5	0.4	17. 42. 36.68		37.42				5. 42. 41.08	- 0.54			
	19	Groomb. 1048 S.P.	B	...	34.9	38.6	42.6	54.1	58.4	2.2	10.1	14.1	...	17. 51. 54.34		55.07				5. 51. 58.73	- 0.61			
	20	Groomb. 1053 S.P.	B	...	18.8	22.5	26.2	38.1	42.0	46.1	53.9	58.0	...	17. 52. 38.16		38.89				5. 52. 42.55	- 0.61			
	21	Groomb. 1057 S.P.	B	...	...	...	...	...	11.3	15.7	24.5	29.3	34.0	17. 54. 6.62		7.47				5. 54. 11.13	- 0.54			
	22	Groombridge 2494	B	...	...	...	45.9	49.3	52.9	3.3	...	...	...	17. 55. 52.88		52.75				17. 55. 56.41	- 2.64			
	23	Piazzi XVII. 351	B	53.2	56.0	59.0	4.4	7.4	10.1	18.7	21.4	24.1	27.1	18. 0. 10.17		10.71				18. 0. 14.37	- 3.40			
	24	Groomb. 1085 S.P.	B	...	...	...	...	...	...	46.0	58.1	4.2	10.3	18. 4. 33.64		34.79				6. 4. 38.45	- 0.40			
	25	Groomb. 1090 S.P.	B	...	27.4	33.5	...	...	...	...	22.2	28.1	...	18. 4. 57.74		58.89				6. 5. 2.55	- 0.41			
	26	Groomb. 1109 S.P.	B	...	4.4	8.8	13.5	27.0	31.5	36.0	44.9	49.5	...	18. 7. 26.91		27.77				6. 7. 31.43	- 0.66			
	27	Piazzi VI. 10 S.P.	B	...	...	...	...	...	43.5	48.1	52.9	2.5	7.4	12.2	18. 9. 43.12		44.03				6. 9. 47.69	- 0.63		
	28	η Serpentis	B	39.6	42.1	44.8	49.5	52.0	54.4	1.9	4.2	6.8	9.3	18. 15. 54.48		54.81	58.45	3.64		18. 15. 58.47	- 2.82			
	29	B.D. + 23° No. 3342	B	20.4	23.0	25.8	31.1	34.0	36.7	44.6	47.3	50.1	52.8	18. 23. 36.61		36.72				18. 23. 40.38	- 2.54			
	30	Bradley 2323	B	30.4	32.9	35.6	40.6	43.2	46.0	53.5	56.0	58.6	1.2	18. 26. 45.82		46.24				18. 26. 49.90	- 3.01			
	31	Bradley 2327	B	26.1	28.5	31.1	36.2	38.9	41.4	49.0	51.5	54.0	56.6	18. 27. 41.35		41.77				18. 27. 45.43	- 3.01			
	32	Piazzi XVIII. 132..R.	B	52.9	55.4	58.2	3.5	6.2	9.0	...	...	...	...	18. 31. 8.96		9.43				18. 31. 13.09	- 2.51			
	33	2 Aquilæ	B	18.6	21.1	23.5	28.5	30.9	33.4	41.0	43.4	46.0	48.4	18. 36. 33.50		33.88	37.58	3.70		18. 36. 37.54	- 2.87			
	34	2 Aquilæ... (E&E)	B	53.1	8.1	23.1	38.1	53.0	8.2	23.0	...	...	...	18. 36. 33.41		33.79	37.58	3.79		.....				
	35	W.B. (2) XVIII. 1330	B	39.9	42.6	45.8	51.6	54.6	57.6	6.5	9.3	12.1	15.1	18. 44. 57.53		57.57				18. 45. 1.23	- 2.38			
	36	β ¹ Lyræ	B	55.2	58.1	1.2	7.1	10.1	13.0	21.8	24.9	27.7	30.7	18. 46. 13.01		13.04	16.76	3.72		18. 46. 16.70	- 2.37			
	37	β ¹ Lyræ ... (E&E)	B	24.6	42.1	59.9	17.7	35.4	53.2	10.9	...	...	...	18. 46. 13.02		13.05	16.76	3.71		.....				
	38	β Andromedæ ...	AC	56.7	14.6	...	...	...	...	...	...	6.0	9.1	1. 3. 50.96		50.96	54.78	3.82	3.67	1. 3. 54.63	- 0.35			
	39	Polaris	AC	1.4	9.8	4.9	33.9	10.0	20.2	30.1	...	...	...	1. 20. 14.86		56.99	59.77	2.78	[- 0.08]	1. 20. 0.66	+ 54.08			
May 21	40	δ Leonis	R. AC	16.9	19.5	22.1	27.6	30.1	32.9	...	...	...	...	11. 8. 32.80		33.28	36.93	3.65		11. 8. 36.91	- 2.26			
	41	δ Crateris	AC	...	53.5	56.0	1.1	3.7	6.1	13.9	16.2	18.9	...	11. 14. 6.20		6.62	10.26	3.64		11. 14. 10.25	- 1.87			
	42	ε Leonis	AC	13.2	15.9	18.3	23.3	25.9	28.4	36.0	38.4	41.0	43.6	11. 18. 28.26		28.63				11. 18. 32.26	- 2.18			
	43	δ 1 L.	AC	8.1	10.6	13.3	18.2	20.9	23.5	31.1	33.6	36.1	38.6	11. 24. 23.42		23.72				11. 25. 34.83				
	44	ν Leonis	AC	20.8	23.2	25.7	30.6	33.1	35.6	42.9	45.5	48.0	50.3	11. 31. 35.59		35.89	39.48	3.59		11. 31. 39.52	- 2.11			
	45	Polaris S.P.	AC	9.3	16.3	23.5	33.5	58.4	4.6	15.1	24.1	43.2	51.1	13. 19. 40.49		58.88	0.12	1.24		1. 20. 2.51	+ 53.73			
	46	τ Boötis	AC	2.4	5.2	7.8	13.0	15.6	18.1	26.0	28.5	31.1	33.8	13. 42. 18.18		18.35	21.97	3.62		13. 42. 21.97	- 2.81			
	47	ε Cassiopeiæ S.P.	AC	16.2	21.8	27.2	32.9	49.2	54.6	0.2	11.1	16.4	21.9	13. 46. 49.10		50.13				1. 46. 53.75	+ 0.95			
	48	γ Boötis	AC	31.9	34.4	37.4	42.9	45.6	48.3	56.8	59.5	2.4	5.3	13. 51. 48.48		48.55				13. 51. 52.17	- 2.96			
	49	τ Virginis	AC	5.3	7.8	10.1	15.1	17.6	20.0	27.5	29.9	32.3	34.8	13. 56. 20.06		20.35	23.91	3.56		13. 56. 23.97	- 2.77			
	50	α Draconis	AC	...	...	...	...	29.8	35.6	53.1	58.9	4.7	10.5	14. 1. 35.71		35.13				14. 1. 38.75	- 4.45			
	51	Piazzi XIV. 12 ...	AC	44.0	46.3	48.9	53.8	56.1	58.7	6.1	8.5	11.1	13.6	14. 6. 58.73		59.02				14. 7. 2.64	- 2.81			
	52	Arcturus	AC	38.2	41.1	43.7	48.8	51.5	54.1	2.0	4.6	7.2	9.9	14. 10. 54.14		54.28	57.91	3.63		14. 10. 57.90	- 2.88			
	53	Piazzi II. 60 S.P.	AC	41.1	58.5	14.0	30.1	18.5	34.3	50.9	22.0	38.6	55.2	14. 22. 18.16		20.97				2. 22. 24.59	+ 5.98			

Corrections to the times by Hardy for reduction to Sideral Standard, applied to form Concluded Transit, Nos. 34 and 37, - 4^s.70 and - 4^s.70.
Correction for passage of Semidiameter, No. 43, + 67^s.47.

38. Observed over wires M, N, W and X.

39. Observed over wire T with the transit-micrometer set to readings 36^r.541, 36^r.619, 37^r.105, 37^r.342, 37^r.685, 37^r.755, 37^r.822.

43. Correction to R.A. on true meridian, + 0^s.01.

45. Observed over wire R with the transit-micrometer set to readings 36^r.318, 36^r.239, 36^r.185, 36^r.089, 35^r.861, 35^r.807, 35^r.729, 35^r.639, 35^r.468, 35^r.398.

MONTH AND DATE	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Apparently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
May 21	1	Bradley 344 S.P.	AC	1'4	17'0	32'9	48'1	35'6	52'0	7'4	39'0	55'1	10'6	14. 32. 35'74	+ 0'70	38'49			3'67	2. 32. 42'11	+ 5'75
	2	Carrington 387 S.P.	AC	...	20'1	38'1	55'3	47'6	6'1	24'0	59'3	17'1	...	14. 38. 48'28	(- 2'77)	51'34			[- 0'08]	2. 38. 54'96	+ 6'57
	3	Saturn 1 L.	AC	21'9	24'3	27'0	32'0	34'6	37'1	44'6	47'3	49'8	52'2	14. 51. 37'10	[+ 7'15]	38'18				14. 51. 41'80	
	4	Saturn 2 L.	AC	23'1	25'7	28'2	33'5	35'9	38'4	46'1	48'5	51'1	53'6	14. 51. 38'43							
	5	Groombridge 2213	AC	...	...	...	29'1	54'5	20'1	35'1	...	...	...	15. 2. 19'94		16'21				15. 2. 19'83	- 12'95
	6	Groombridge 2283	AC	4'5	12'4	15'1	58'0	12'4	4'1	15'1	26'0	36'0	...	15. 11. 16'76		7'48				15. 11. 11'10	- 28'22
	7	δ Serpentis (N. Star) R.	AC	34'0	36'2	38'9	44'0	46'4	48'9	...	...	...	...	15. 29. 48'95		49'45				15. 29. 53'07	- 2'95
	8	α Serpentis	AC	52'8	55'2	57'9	2'7	5'2	7'8	15'1	17'6	20'1	22'6	15. 39. 7'72		7'98	11'63	3'65		15. 39. 11'60	- 2'96
	9	ε Serpentis	AC	...	...	...	...	34'7	37'0	46'9	49'2	51'8	...	15. 45. 37'02		37'29	40'82	3'53		15. 45. 40'91	- 2'98
May 23	10	Polaris	B	3'3	10'2	18'7	48'1	56'5	4'8	21'0	27'3	31'8	36'3	1. 20. 20'10	(- 3'83)	59'65	2'08	2'43	3'43	1. 20. 3'08	+ 51'77
	11	α Arietis	B	27'3	43'3	59'6	2'1	4'9	15'8	23'7	...	...	3'8	2. 1. 15'61		15'66	19'03	3'37	[- 0'07]	2. 1. 19'08	- 0'49
May 24	12	⊙ 1 L.	H	...	...	...	...	...	...	58'4	1'0	3'5	4. 5. 47'77							4. 6. 59'29	
	13	⊙ 2 L.	H	47'9	50'5	53'1	58'4	1'1	3'8	11'9	14'4	16'9	20'0	4. 8. 3'83		55'87					
	14	Castor	B	38'1	41'1	44'0	49'9	52'8	55'8	4'2	7'2	10'1	13'1	7. 27. 55'66		55'62	59'01	3'39		7. 27. 59'03	- 1'14
	15	κ Cassiopeiae S.P.	B	33'5	39'1	44'1	0'0	5'5	10'9	21'4	26'9	...	...	12. 27. 0'13		1'18				0. 27. 4'57	+ 0'57
	16	α Cassiopeiae S.P.	B	5'5	9'9	14'2	18'8	32'0	36'3	40'6	49'2	54'1	58'2	12. 34. 31'84		32'71				0. 34. 36'10	+ 0'15
	17	Bradley 90 S.P.	B	16'6	21'7	26'9	...	46'9	...	...	6'9	12'0	17'0	12. 46. 46'82		47'83				0. 46. 51'22	+ 0'50
	18	ε Ursæ Majoris	B	...	...	10'0	19'0	23'4	28'0	41'3	45'9	...	...	12. 49. 27'97		27'50				12. 49. 30'89	- 3'64
	19	δ Virginis	B	...	8'2	10'8	15'8	18'1	20'7	28'1	30'6	33'1	...	12. 50. 20'70		20'92	24'35	3'43		12. 50. 24'31	- 2'51
	20	Oeltz. Arg. (N.) 949 S.P.	B	...	57'9	6'6	15'1	40'5	49'5	58'0	14'6	23'4	...	12. 53. 40'62		42'31				0. 53. 45'70	+ 2'16
	21	Groomb. 175 S.P.	B	6'6	18'4	32'8	44'4	56'6	20'8	33'2	46'6	58'0	10'5	12. 58. 8'79		20'27				0. 58. 23'66	+ 26'97
	22	θ Virginis	B	17'8	20'2	22'7	27'8	30'1	32'6	40'0	42'5	44'9	47'5	13. 4. 32'63		32'94	36'36	3'42		13. 4. 36'33	- 2'54
	23	β Comæ	B	43'9	46'5	49'3	55'0	57'7	0'6	9'0	11'7	14'6	17'4	13. 7. 0'60		0'59				13. 7. 3'98	- 2'81
	24	Bradley 163 S.P.	B	24'2	34'2	44'2	54'1	24'6	34'2	44'2	4'2	14'2	24'2	13. 13. 24'13		26'10				1. 13. 29'49	+ 2'89
	25	Polaris S.P.	B	40'2	52'3	5'4	16'2	27'4	49'6	2'0	14'1	25'8	36'9	13. 19. 39'00		59'89	2'53	2'64		1. 20. 3'28	+ 51'32
	26	Groomb. 320 S.P.	B	29'0	33'6	38'9	43'8	58'3	3'3	8'1	17'9	22'9	27'8	13. 22. 58'31		59'29				1. 23. 2'68	+ 0'52
	27	Groomb. 326 S.P.	B	...	...	...	...	...	...	27'5	32'9	37'5	11'2	13. 25. 5'47		6'56				1. 25. 9'95	+ 0'79
	28	Groomb. 329 S.P.	B	0'9	6'1	12'0	...	...	...	...	55'3	0'9	6'2	13. 25. 33'52		34'61				1. 25. 38'00	+ 0'79
	29	B.D.—14° No. 3763	B	38'1	...	43'4	48'4	50'9	...	1'1	3'7	...	9'1	13. 32. 53'56		53'95				13. 32. 57'34	- 2'67
	30	m Virginis	B	...	...	58'1	3'1	5'6	8'0	15'6	18'1	...	...	13. 36. 8'10		8'43	11'77	3'34		13. 36. 11'82	- 2'67
	31	ε Virginis	B	...	...	41'7	46'8	49'3	52'0	59'6	2'1	...	...	13. 38. 51'94		52'34				13. 38. 55'73	- 2'70
	32	κ Cassiopeiae S.P.	B	16'6	22'0	27'9	33'1	49'5	55'1	0'5	11'4	16'9	22'1	13. 46. 49'46		50'56				1. 46. 53'95	+ 0'82
	33	W. B. (2) XIII 1070.	B	49'7	52'7	56'0	2'1	5'2	8'2	17'6	20'8	24'0	27'1	13. 50. 8'37		8'25				13. 50. 11'64	- 3'10
	34	τ Virginis	B	5'5	7'9	10'4	15'3	17'9	20'2	27'9	30'1	32'7	35'1	13. 56. 20'32		20'56	23'91	3'35		13. 56. 23'95	- 2'77
	35	τ Virginis... (E&E)	B	42'2	57'3	12'0	26'3	41'7	56'6	11'4	...	...	...	13. 56. 20'30		20'54	23'91	3'37		.....	
	36	α Draconis	B	1'4	6'9	12'9	24'2	30'1	36'1	53'5	59'1	5'1	10'9	14. 1. 36'08		35'34				14. 1. 38'73	- 4'39
	37	κ Virginis	B	4'8	7'4	10'0	14'7	17'3	19'9	27'4	29'9	32'2	34'9	14. 7. 19'87		20'21	23'60	3'39		14. 7. 23'60	- 2'82
	38	δ 1 L.	B	50'8	53'5	56'1	1'5	4'1	6'9	15'0	17'7	20'3	23'1	14. 10. 6'93		7'36				14. 11. 22'89	
	39	ν Virginis	B	21'3	23'6	26'1	31'1	33'6	36'1	43'5	46'0	48'2	50'8	14. 16. 36'05		36'32				14. 16. 39'71	- 2'84
	40	Piazzi II. 60 S.P.	B	...	...	...	...	19'0	35'0	51'2	23'0	39'2	55'1	14. 22. 18'70		21'82				2. 22. 25'21	+ 5'70
	41	ρ Boötis	B	3'2	6'0	8'9	14'7	17'6	20'4	29'1	32'0	34'7	37'8	14. 27. 20'47		20'43	23'89	3'46		14. 27. 23'82	- 3'04
	42	ρ Boötis ... (E&E)	B	35'1	52'6	9'9	27'0	44'4	1'6	18'9	...	...	...	14. 27. 20'52		20'48	23'89	3'41		.....	
	43	σ Boötis	B	...	54'6	57'5	3'0	5'9	8'8	17'4	20'1	23'0	...	14. 30. 8'82		8'79				14. 30. 12'18	- 3'04
	44	ζ Boötis	B	55'0	57'4	0'0	5'1	7'8	10'2	17'9	20'3	22'9	25'5	14. 36. 10'23		10'37				14. 36. 13'76	- 2'91
	45	109 Virginis	B	43'9	46'1	48'6	53'5	56'2	58'6	6'1	8'5	11'1	13'6	14. 40. 58'64		58'88				14. 41. 2'27	- 2'90
	46	α Libræ	B	51'1	53'8	56'2	1'4	4'0	6'5	14'1	16'7	19'3	22'0	14. 45. 6'53		6'93	10'40	3'47		14. 45. 10'32	- 2'99
	47	Saturn 1 L.	B	32'5	35'1	37'8	42'8	45'4	48'0	55'5	57'9	0'6	3'1	14. 50. 47'89							
	48	Saturn 2 L.	B	34'1	36'4	39'1	44'0	46'7	49'1	56'9	59'2	1'9	4'4	14. 50. 47'20		48'93				14. 50. 52'32	
	49	Polaris	B	37'1	49'3	1'8	13'2	24'0	12'7	24'1	37'4	49'8	2'0	1. 20. 19'15		58'70	2'97	4'27	3'36	1. 20. 2'06	+ 50'88
May 25	50	α Coronæ	H	0'1	2'9	5'9	11'3	14'0	16'9	25'2	27'9	30'8	33'6	15. 30. 16'89	(- 3'36)	16'93	20'05	3'12	3'12	.....	
	51	α Serpentis	H	...	55'9	58'5	3'2	5'8	8'2	15'8	18'2	20'9	...	15. 39. 8'33		8'56	11'66	3'10	[- 0'01]	.....	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 35 and 42, — 6^h 58 and — 6^h 58.
Correction for passage of Semidiameter, No. 38, + 72^s 12.

6. Observed over wire S with the transit-micrometer set to readings 34^h 41^m 5, 34^h 53^m 5, 35^h 60^m 1, 36^h 29^m 8, 36^h 54^m 5, 37^h 41^m 0, 37^h 56^m 7, 37^h 74^m 5, 37^h 92^m 5.
10. Observed over wire X with the transit-micrometer set to readings 36^h 88^m 8, 36^h 94^m 2, 37^h 25^m 5, 37^h 33^m 0, 37^h 40^m 6, 37^h 55^m 3, 37^h 60^m 9, 37^h 64^m 9, 37^h 70^m 0.
11, 14, 47, 48. Very faint; hazy.
11. Observed over wires M, N, O, P, Q, T, U and Z.
12, 13, 15, 16. Cloudy.
21. Observed over wire T with the transit-micrometer set to readings 36^h 60^m 0, 36^h 40^m 0, 36^h 20^m 0, 36^h 00^m 0, 35^h 80^m 0, 35^h 40^m 0, 35^h 20^m 0, 34^h 80^m 0, 34^h 60^m 0.
25. Observed over wire T with the transit-micrometer set to readings 36^h 100^m 0, 36^h 00^m 0, 35^h 90^m 0, 35^h 80^m 0, 35^h 70^m 0, 35^h 50^m 0, 35^h 40^m 0, 35^h 30^m 0, 35^h 20^m 0, 35^h 10^m 0.
26, 27. Very faint.
27. Observed over wires Q, P, O and N.
29. Observed in dark field with wires illuminated.
38. Correction to R.A. on true meridian, + 0^s 02.
49. Observed over wire T with the transit-micrometer set to readings 34^h 200^m 0, 34^h 300^m 0, 34^h 400^m 0, 34^h 500^m 0, 34^h 600^m 0, 36^h 600^m 0, 36^h 700^m 0, 36^h 800^m 0, 36^h 900^m 0, 37^h 000^m 0.

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Reduc- tion to Mean R.A. 1890-0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m					s	h	m		s		
																										Error of Collimation.	
																										(Level).	[Azimuth].
										+ 0.70 - 3.30 + 7.15																	
May 25	1	α Serpentis (E&E)	H	...	45.2	0.0	...	30.1	44.8	...	...	...	...	15.39. 7.81			8.04	11.66	3.62	3.12 [- 0.01]							
	2	Venus 1 L.....	J	40.8	43.4	46.0	...	...	56.6	...	6.5	9.4	12.0	3.25. 56.40						3.44	3.26. 0.30						
	3	Venus 2 L.....	J	...	44.0	46.6	...	...	57.2	...	7.3	10.1	...	3.25. 57.06													
May 26	4	π Virginis	J	16.1	18.7	21.2	26.1	28.6	31.2	38.7	41.1	43.6	46.1	11.55. 31.16	+ 1.11	31.40	34.85	3.45	.....	.....							
	5	Groomb. 67 S.P...	B	...	...	...	...	30.2	4.5	36.1	42.7	...	...	12.25. 30.00		35.49			3.38	0.25. 38.86 + 12.53							
	6	Groomb. 99 S.P...	B	...	...	...	...	28.0	33.1	38.0	47.5	52.6	57.5	12.30. 28.00		28.94				0.30. 32.31 + 0.29							
	7	Carrington 124 S.P...	J	11.7	18.0	28.4	33.8	39.2	44.9	...	...	...	...	12.52. 9.56		13.56			3.44	0.52. 16.99 + 8.89							
	8	θ Virginis	J	17.7	20.1	22.6	27.5	30.1	32.5	40.0	42.4	44.9	47.4	13. 4. 32.54		32.88	36.35	3.47	.....	.....							
	9	53 Virginis	J	14.5	17.2	19.8	24.9	27.4	30.0	37.7	40.1	42.8	45.4	13. 6. 30.00		30.44				13. 6. 33.87 - 2.52							
	10	σ Virginis	J	5.2	7.7	10.1	15.1	17.6	20.0	27.3	30.0	32.4	35.0	13. 12. 20.00		20.31				13. 12. 23.74 - 2.62							
	11	Spica	J	26.1	28.9	31.4	36.2	38.9	41.5	49.1	51.4	54.0	56.5	13. 19. 41.42		41.81	45.36	3.55	.....	.....							
	12	Polaris S.P.	J	32.1	37.8	42.0	45.7	50.6	55.0	0.0	4.7	9.6	13.4	13. 19. 42.97		1.23	4.38	3.15	1.20. 4.66 + 49.47								
	13	Groomb. 320 S.P.	J	28.5	33.9	38.9	43.7	...	...	...	...	...	...	13.22. 58.17		59.05				1.23. 2.48 + 0.43							
	14	Groomb. 2029.R.	J	55.1	3.1	...	27.1	34.8	42.9	...	...	...	...	13.34. 42.76		43.15				13.34. 46.58 - 5.28							
	15	Groomb. 2029.....	J	...	...	...	...	...	...	...	...	23.4	31.1	13.34. 43.95		43.00				13.34. 46.43 - 5.28							
	16	3 Boötis	J	36.0	38.8	41.5	47.1	49.8	52.5	...	...	...	...	13.41. 52.55		53.08				13.41. 56.51 - 2.89							
	17	ρ Boötis	R.	48.9	4.2	20.4	23.0	25.8	...	...	...	...	...	14.21. 36.06		36.60	40.00	3.40	.....	.....							
	18	ε Boötis	B	3.1	6.0	9.0	14.8	17.7	20.4	29.1	31.9	34.8	37.7	14.27. 20.48		20.52	23.88	3.36	3.38	.....							
	19	ρ Boötis	B	9.6	12.2	15.1	20.7	23.4	26.1	34.5	37.4	40.1	42.9	14.40. 26.22		26.29	29.67	3.38	.....	.....							
	20	57 Hydræ	J	35.1	37.8	40.5	46.2	48.9	51.5	59.6	2.5	5.3	8.0	14.41. 51.57		52.11			3.44	14.41. 55.54 - 3.11							
	21	α Libræ	J	51.3	53.9	56.4	1.4	4.0	6.7	14.3	16.8	19.5	22.0	14.45. 6.65		7.09	10.41	3.32	.....	.....							
	22	Saturn 1 L.....	J	0.4	3.0	5.8	10.7	13.2	16.0	23.5	26.0	28.5	31.1	14.50. 15.84						14.50. 20.28							
	23	Saturn 2 L.....	J	1.6	4.2	6.9	12.0	14.4	...	24.6	27.2	29.8	32.2	14.50. 17.01						.....							
	24	β Libræ	WB	8.7	11.1	13.8	18.8	21.3	23.8	31.3	33.7	36.1	38.7	15.11. 23.75		24.12	27.55	3.43	3.41	.....							
	25	α Coronæ	WB	...	...	5.5	...	13.9	16.5	25.0	...	...	...	15.30. 16.63		16.70	20.06	3.36	.....	.....							
	26	δ 1 L.	J	...	...	46.0	...	...	...	...	...	11.7	...	16.16. 57.42					3.44	16.18. 17.17							
	27	δ 2 L.	J	11.8	14.5	17.2	23.3	...	...	...	...	...	...	16.19. 28.92		13.72				.....							
	28	κ Ophiuchi.....	J	29.1	31.5	34.1	39.0	41.5	44.0	51.7	54.0	56.5	59.1	16.52. 44.07		44.29	47.65	3.36	.....	.....							
	29	Polaris.....	D	10.2	18.8	2.9	16.6	25.6	46.0	55.0	12.1	21.1	33.7	1.20. 19.61		1.81	4.85	3.04	3.22 [- 0.04]	1.20. 5.03 + 49.00							
May 27	30	⊙ 2 L.....	D	...	...	...	...	12.3	20.2	23.2	26.0	28.1	4.20. 12.42		12.54					4.19. 7.66							
	31	β Leonis	D	28.7	31.3	33.9	39.0	41.5	44.1	51.9	54.2	56.9	59.5	11.43. 44.12		44.30	47.52	3.22	.....	.....							
	32	π Virginis	D	16.4	18.9	21.5	26.5	28.7	31.5	38.9	41.3	43.7	46.2	11.55. 31.38		31.62	34.84	3.22	.....	.....							
	33	η Virginis	B	18.9	21.4	23.9	28.6	31.2	33.8	41.1	43.6	46.0	48.5	12.14. 33.72		34.02	37.34	3.32	3.38	.....							
	34	η Virginis..(E&E)	B	57.5	12.4	27.3	42.1	57.0	11.8	26.7	...	...	...	12.14. 33.69		33.99	37.34	3.35	.....	.....							
	35	Bradley 1672 ...	D	12.8	25.8	32.5	38.9	48.8	55.8	4.1	16.0	25.6	36.1	12.15. 8.60		55.78			3.22	12.14. 58.98 - 35.34							
	36	Groomb. 67 S.P...	B	...	...	...	...	30.0	3.6	37.5	46.0	...	...	12.25. 30.90		36.39			3.38	0.25. 39.75 + 12.22							
	37	ρ Corvi	B	37.6	40.2	43.1	48.2	51.0	53.8	1.7	4.3	7.2	9.9	12.28. 53.73		54.23	57.62	3.39	.....	.....							
	38	Oeltz. Arg. (N.) 949 S.P.	D	...	58.4	7.2	15.1	41.1	49.8	58.2	15.1	23.6	...	12.53. 40.98		42.49			3.22	0.53. 45.69 + 1.94							
	39	Groomb. 175 S.P.	B	39.7	46.0	52.2	59.2	4.8	17.8	23.5	29.6	35.5	42.1	12.58. 11.04		21.10			3.38	0.58. 24.46 + 25.36							
	40	Polaris S.P.	D	57.3	15.0	27.2	51.9	1.6	12.9	34.3	44.1	51.1	13.5	13.19. 44.14	+ 7.37	2.95	5.31	2.36	3.22	1.20. 6.15 + 48.54							
	41	Groomb. 326 S.P.	D	33.1	38.7	44.0	49.6	5.9	11.3	16.9	27.9	33.1	38.6	13.25. 5.86	+ 7.94	6.96				1.25. 10.16 + 0.64							
	42	Groomb. 329 S.P.	D	...	...	...	...	...	...	44.9	55.6	1.3	6.5	13.25. 33.92		35.02				1.25. 38.22 + 0.64							
	43	Carrington 2037..	D	...	...	...	...	...	...	11.4	31.1	52.6	12.0	13.32. 10.56		7.34				13.32. 10.54 - 10.81							
	44	τ Boötis	D	3.1	5.6	8.1	13.3	16.0	18.6	26.4	29.0	31.5	34.1	13.42. 18.60		18.79	21.95	3.16	.....	.....							
	45	W.B.(2)XIII.1070	D	...	...	...	...	...	...	18.0	20.9	24.0	27.1	13.50. 8.53		8.51				13.50. 11.71 - 3.08							
	46	β Andromedæ ...	B	33.6	36.5	39.8	45.8	48.8	51.8	0.7	3.8	6.8	9.8	1. 3. 51.77		51.78	55.00	3.22	3.33 [- 0.07]	1. 3. 55.11 - 0.57							
	47	δ Cassiopeiæ	B	28.0	32.9	38.0	47.7	52.5	57.4	12.1	16.6	21.9	26.9	1.18. 57.45		57.01				1.19. 0.34 + 0.34							
	48	Polaris	B	36.6	46.2	21.5	33.3	45.2	0.5	13.2	24.1	58.4	10.0	1.20. 22.90		3.53	5.77	2.24		1.20. 6.86 + 48.08							
	49	ε Cassiopeiæ	B	18.2	24.0	29.2	40.1	45.7	51.2	7.7	12.9	18.5	24.0	1.46. 51.20		50.64				1.46. 53.96 + 0.66							
	50	γ Andromedæ ...	B	8.0	11.2	14.5	21.1	24.5	27.9	37.8	41.1	44.2	47.8	1.57. 27.84		27.77				1.57. 31.09 - 0.30							
	51	α Arietis	B	...	...	...	...	12.9	15.6	23.8	26.3	29.1	31.9	2. 1. 15.71		15.85	19.13	3.28		2. 1. 19.17 - 0.59							
	52	β Trianguli	B	0.2	3.3	6.2	12.3	15.2	18.1	27.3	30.1	33.3	36.1	2. 3. 18.24		18.26				2. 3. 21.58 - 0.44							

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 1 and 34, — 7^h 25 and — 8^h 44.
Correction for passage of Semidiameter, No. 30, — 68^h 09.

2. A correction of — 0^h 01, for defect of illumination, has been applied in forming the concluded transit.
7. Observed over wire T with the transit-micrometer set to readings 35^h 524, 35^h 258, 34^h 792, 34^h 590, 34^h 343, 34^h 118.
12. Observed over wire U with the transit-micrometer set to readings 35^h 890, 35^h 835, 35^h 800, 35^h 744, 35^h 716, 35^h 680, 35^h 635, 35^h 598, 35^h 560, 35^h 510.
13. Observed in partially illuminated field.
25, 26, 27, 28. Very faint; cloudy.
29. Observed over wire R with the transit-micrometer set to readings 34^h 375, 34^h 445, 34^h 822, 34^h 969, 35^h 028, 35^h 206, 35^h 273, 35^h 420, 35^h 486, 35^h 603.
35. Observed over wire T with the transit-micrometer set to readings 36^h 398, 36^h 537, 36^h 615, 36^h 689, 36^h 826, 36^h 906, 36^h 998, 37^h 136, 37^h 262, 37^h 397.
39. Observed over wire T with the transit-micrometer set to readings 36^h 100, 36^h 000, 35^h 900, 35^h 800, 35^h 700, 35^h 600, 35^h 500, 35^h 400, 35^h 300, 35^h 200, 35^h 100.
40. Observed over wire T with the transit-micrometer set to readings 38^h 127, 37^h 963, 37^h 863, 37^h 630, 37^h 580, 37^h 462, 37^h 273, 37^h 185, 37^h 116, 36^h 924.
48. Observed over wire T with the transit-micrometer set to readings 33^h 500, 33^h 700, 34^h 000, 34^h 100, 34^h 200, 34^h 300, 34^h 400, 34^h 500, 34^h 600, 34^h 700, 34^h 800, 34^h 900, 35^h 000, 35^h 100, 35^h 200, 35^h 300, 35^h 400, 35^h 500, 35^h 600, 35^h 700, 35^h 800, 35^h 900, 36^h 000, 36^h 100, 36^h 200, 36^h 300, 36^h 400, 36^h 500, 36^h 600, 36^h 700, 36^h 800, 36^h 900, 37^h 000, 37^h 100, 37^h 200, 37^h 300, 37^h 400, 37^h 500, 37^h 600, 37^h 700, 37^h 800, 37^h 900, 38^h 000, 38^h 100, 38^h 200, 38^h 300, 38^h 400, 38^h 500, 38^h 600, 38^h 700, 38^h 800, 3

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at 0 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
																							h	m	s
May 27	1	Venus 1 L.....	B	37.1	39.9	...	...	...	53.1	...	...	6.0	8.6	3.35.52.95	+ 1.11	53.51			3.33	3.35.56.83					
	2	Venus 2 L.....	B	...	...	43.4	48.2	51.2	...	1.5	4.1	...	...	3.35.53.71	(- 3.30) [+ 7.94]										
May 28	3	☉ 1 L.....	B	43.6	46.3	49.1	54.3	57.0	59.7	7.6	10.4	13.1	15.9	4.21.59.73	}	8.10			4.23.11.42						
	4	☉ 2 L.....	B	0.2	2.9	5.6	10.9	13.4	16.0	24.0	26.8	29.5	32.0	4.24.16.16											
	5	λ Ursæ Majoris...	B	...	...	...	...	...	48.5	58.7	2.0	5.6	8.9	10.10.48.55	}	48.45	16.22	3.31	10.10.51.75	- 2.25					
	6	γ Leonis	B	56.9	59.5	2.1	7.3	10.0	12.8	20.6	23.3	26.0	28.6	10.14.12.74											
	7	β Leonis Minoris	B	32.5	35.5	38.9	44.9	48.0	51.1	0.2	3.4	6.5	9.7	10.21.51.10	}	51.08			10.21.54.38	- 2.20					
	8	ν Hydræ.....	B	12.0	14.4	17.1	22.1	24.8	27.4	35.0	37.5	40.1	42.9	10.44.27.35											
	9	54 Leonis	B	41.4	44.0	46.8	52.1	54.9	57.8	5.9	8.5	11.3	14.0	10.49.57.70	}	27.84			10.44.31.14	- 1.57					
	10	β Ursæ Majoris...	B	6.8	11.3	16.0	24.9	29.5	34.0	47.5	52.0	56.6	1.1	10.55.34.01											
	11	α Ursæ Majoris...	B	47.1	52.4	58.0	8.2	13.9	19.2	35.1	40.2	45.6	50.9	10.57.19.11	}	57.82			10.50.1.12	- 2.14					
	12	ψ Ursæ Majoris...	B	27.6	30.9	34.5	41.6	44.9	48.5	58.9	2.3	5.9	9.5	11.3.48.49											
	13	δ Leonis.....	B	17.6	20.1	22.9	28.0	30.6	33.5	41.4	44.0	46.6	49.3	11.8.33.43	}	33.65	36.85	3.27	10.55.36.95	- 2.99					
	14	β Canum Venaticum	B	...	...	34.7	41.1	44.6	48.0	58.0	1.1	...	...	12.28.47.95											
	15	f Virginis	B	9.6	12.0	14.6	19.6	22.0	24.6	32.0	34.4	37.0	39.5	12.31.24.55	}	47.87			10.57.21.89	- 3.27					
	16	α Cassiopeiæ S.P.	B	5.7	10.0	14.4	18.7	32.0	36.4	40.9	49.8	54.1	58.5	12.34.32.01											
	17	δ Virginis	R	35.9	50.6	5.5	7.9	10.5	...	...	...	...	...	12.50.20.35	}	24.94			11.3.51.67	- 2.62					
	18	δ Virginis	B	...	...	...	...	...	28.1	30.5	33.0	35.6	12.50.20.71												
	19	ε Virginis	R	13.1	28.2	43.4	46.0	48.5	...	...	...	...	...	12.56.58.51	}	33.58	36.85	3.27	11.8.36.88	- 2.18					
	20	ε Virginis	B	...	...	...	...	...	6.5	9.0	11.6	14.0	12.56.58.99												
	21	μ Cassiopeiæ S.P.	B	51.5	55.8	0.0	4.2	17.0	21.3	25.6	34.0	38.1	42.4	13.1.16.95	}	47.87			12.28.51.16	- 2.91					
	22	θ Virginis	B	17.9	20.1	22.8	27.8	30.1	32.7	40.1	42.5	45.0	47.6	13.4.32.68											
	23	θ Virginis ..(E&E)	B	57.0	12.0	27.0	41.8	56.6	11.5	26.5	...	...	...	13.4.32.71	}	24.94			12.31.28.23	- 2.35					
	24	β Comæ.....	B	43.6	46.3	49.4	54.9	57.9	0.6	9.1	11.9	14.6	17.4	13.7.0.60											
	25	61 Virginis	B	40.9	43.4	46.1	51.2	53.9	56.5	4.2	6.9	9.5	12.0	13.12.56.49	}	32.90			0.34.36.19	- 0.03					
	26	Polaris S.P.	B	44.9	57.1	8.4	19.5	6.0	17.6	28.7	42.4	...	...	13.19.43.08											
	27	Carrington 203 S.P.	B	51.9	1.5	11.8	21.8	30.5	41.5	50.6	...	...	...	13.22.21.37	}	57.01	6.22	3.21	12.57.2.54	- 2.57					
	28	Carrington 2037...	B	8.1	...	...	30.0	49.5	10.3	...	31.0	52.1	...	13.32.10.38											
	29	54 Andromedæ S.P.	B	41.4	45.0	49.1	...	...	...	19.9	23.9	27.8	13.36.4.48	}	7.16			12.57.2.54	- 2.57						
	30	η Ursæ Majoris...	B	3.9	7.7	...	19.1	22.9	26.9	38.2	...	46.0	49.8							13.43.26.85					
	31	ε Cassiopeiæ S.P.	B	16.7	22.1	28.0	33.3	49.8	55.1	0.7	11.5	17.0	22.5	13.46.49.62	}	50.73			1.1.21.08	- 0.17					
	32	* N.P.D. 52° 24'	B	47.5	...	54.4	0.0	...	6.0	15.5	18.5	22.0	...	13.51.6.30											
	33	τ Virginis	B	5.5	8.0	10.5	15.3	17.8	20.2	27.8	30.1	32.5	35.1	13.56.20.30	}	6.28	23.90	3.28	13.43.29.92	+ 3.38					
	34	τ Virginis..(E&E)	B	45.1	59.8	14.6	29.5	44.4	59.1	13.9	...	...	...	13.56.20.40											
	35	θ Centauri.....	B	14.6	17.3	20.6	26.6	29.5	32.8	41.9	44.7	48.0	50.9	14.0.32.72	}	20.72	23.90	3.18	13.51.9.57	- 3.08					
	36	λ Boötis	B	4.4	8.0	11.7	18.7	22.4	26.0	36.8	40.2	44.0	47.5	14.12.26.01											
	37	θ Boötis	B	15.8	19.7	24.0	31.9	35.9	...	52.1	56.0	0.0	4.0	14.21.39.97	}	25.87			14.27.56.64	- 3.15					
	38	γ Boötis	B	...	...	...	47.1	50.2	53.4	...	6.0	9.1	12.2	14.27.53.38											
	39	ε Boötis.....	B	9.7	12.3	15.2	20.8	23.5	26.4	34.8	37.5	40.2	43.0	14.40.26.37	}	53.35	29.67	3.21	14.40.29.75	- 3.00					
	40	Saturn 1 L.....	B	29.1	31.6	34.1	...	...	...	...	...	...	...	14.49.44.30											
	41	Saturn 2 L.....	B	30.4	33.0	35.5	...	...	...	...	...	...	...	14.49.45.67	}	26.46	29.67	3.21	14.49.48.75						
May 29	42	☉ 1 L.....	C	48.0	50.8	53.5	58.6	1.6	4.1	12.1	14.7	17.5	20.1	4.26.4.13	}	4.29			3.18	4.27.15.68					
	43	β Corvi	C	12.0	14.5	...	22.0	...	27.6	35.1	37.7	...	42.9	12.24.27.43											
	44	β Corvi	C	...	...	48.5	51.2	53.9	2.0	4.5	7.2	10.0	12.28.53.96	}	27.92	31.15	3.23	[- 0.04]	.....						
	45	Polaris S.P.	C	41.9	26.6	53.3	20.4	49.8	35.4	7.0	45.7	12.4	39.6							13.19.40.87					
	46	ζ Virginis	AC	8.0	10.2	12.8	17.8	20.1	22.7	30.0	32.4	34.9	37.3	13.29.22.64	}	3.10	7.09	3.99	.....						
	47	m Virginis.....	AC	53.1	55.6	58.1	3.1	5.8	8.1	15.6	18.1	20.6	23.1	13.36.8.14											
	48	τ Virginis	C	5.6	8.1	10.8	15.8	18.0	20.3	28.0	30.3	32.8	35.3	13.56.20.52	}	8.54	11.76	3.22	.....						
	49	Bradley 348 S.P.	C	12.9	21.2	29.6	37.4	2.0	10.1	18.2	34.3	43.0	50.9	14.28.1.88											
	50	Saturn 1 L.....	C	14.0	16.5	19.0	24.2	26.7	29.1	36.6	39.2	41.7	44.5	14.49.29.17	}	20.82	23.90	3.08	3.18	2.28.6.79					
	51	Saturn 2 L.....	C	14.9	17.6	20.1	25.5	27.9	30.3	37.9	40.5	43.0	45.4	14.49.30.33											
	52	ψ Boötis	D	42.5	45.2	48.1	53.7	56.4	59.1	7.7	10.1	13.1	16.0	14.59.59.22	}	3.63	2.37	3.11	3.07	.....					

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 23 and 34, — 9^h.08 and — 9^h.11.
Correction for passage of Semidiameter, No. 42, + 68^s.22.

1. A correction of — 0^s.01, for defect of illumination, has been applied in forming the concluded transit.

1, 2. Very diffused and unsteady.

17, 19. Observed over wires M, N, O, P and Q.

26. Observed over wire T with the transit-micrometer set to readings 36^r.100, 36^r.000, 35^r.900, 35^r.800, 35^r.400, 35^r.300, 35^r.200, 35^r.100.

27. Observed over wire T with the transit-micrometer set to readings 37^r.100, 36^r.600, 36^r.100, 35^r.600, 35^r.100, 34^r.600, 34^r.100.

28. Observed in partially illuminated field.

35. Very faint; unsteady.

36, 37, 38. Very faint; cloudy.

32. Very faint. Observed in dark field with wires illuminated.

45. Observed over wire T with the transit-micrometer set to readings 38^r.235, 37^r.856, 37^r.592, 37^r.376, 37^r.108, 36^r.700, 36^r.400, 36^r.100, 35^r.850, 35^r.600.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
May 29	1	♄ Libræ	D	1'4	3'9	6'5	11'9	14'5	17'1	25'0	27'6	30'1	32'8	15. 6. 17.11	+ 1'11	17'63	20'60	2'97	3'07 [- 0'04 ]	.....	
	2	Groombridge 2283	C	29'0	49'3	6'0	23'8	18'9	12'9	28'1	46'2	4'9	...	15. 11. 17'58	(- 4'12)	6'26	18'80	2'87	3'18	15. 11. 9'41	- 26'14
	3	Uranus	C	27'4	30'1	32'6	37'9	40'5	43'1	50'9	53'4	56'0	58'9	15. 17. 43'11	[+ 8'13]	43'62	20'07	3'24	.....	15. 17. 46'77	
	4	α Coronæ	C	...	...	...	...	...	...	25'1	28'0	30'4	33'3	15. 30. 16'78		16'83	20'07	3'24	.....	.....	
May 30	5	β Leonis	S	28'9	31'6	34'1	39'2	41'8	44'1	52'0	54'6	57'1	59'8	11. 43. 44'34		44'52	47'49	2'97	2'99	.....	
	6	β Virginis	S	...	3'1	5'9	10'6	13'1	15'7	23'0	25'5	28'0	...	11. 45. 15'63		15'93	18'80	2'87	[- 0'02 ]	.....	
	7	♄ Ursæ Majoris...	S	...	54'5	59'1	8'2	12'9	17'6	31'5	36'0	40'5	...	12. 10. 17'58		17'09	...	...	...	12. 10. 20'07	- 3'41
	8	12 Comæ	S	59'6	2'4	5'2	10'6	13'5	16'1	24'5	27'1	30'0	32'8	12. 17. 16'21		16'26	...	...	...	12. 17. 19'24	- 2'57
	9	γ Comæ	S	27'9	30'8	33'8	39'2	42'0	44'9	53'2	56'0	58'9	1'8	12. 21. 44'88		44'91	...	...	...	12. 21. 47'89	- 2'62
	10	♄ Corvi	S	12'1	14'8	17'4	22'5	25'1	27'9	35'5	38'0	40'5	43'1	12. 24. 27'72		28'21	31'14	2'93	.....	.....	
	11	21 Comæ	S	...	...	...	...	...	48'3	56'7	59'4	2'1	4'9	12. 25. 48'50		48'56	...	...	...	12. 25. 51'54	- 2'59
	12	η Corvi	S	25'9	28'4	31'1	36'4	38'9	41'4	49'0	51'6	54'1	56'8	12. 26. 41'38		41'87	...	...	...	12. 26. 44'85	- 2'24
	13	χ Virginis	S	36'7	39'2	41'7	46'6	49'1	51'6	54'1	1'5	4'0	6'5	12. 33. 51'62		52'00	...	...	...	12. 33. 54'98	- 2'33
	14	21 Cassiopeiæ S.P.	S	...	...	3'8	13'0	40'5	49'2	58'5	17'1	...	...	12. 38. 40'26		42'22	...	...	...	0. 38. 45'20	+ 1'90
	15	34 Virginis	S	...	...	...	53'8	56'2	58'8	6'5	...	...	...	12. 41. 58'85		59'06	...	...	...	12. 42. 2'04	- 2'52
	16	35 Comæ	S	54'0	56'7	59'4	4'6	7'3	10'0	18'0	20'8	23'4	26'0	12. 48. 10'05		10'16	...	...	...	12. 48. 13'14	- 2'63
	17	δ Virginis	S	6'1	8'7	11'1	16'0	18'6	21'2	28'4	30'9	33'4	36'0	12. 50. 21'06		21'34	24'31	2'97	.....	.....	
	18	36 Comæ	S	...	33'3	36'0	41'1	43'8	46'2	54'0	56'7	59'3	...	12. 53. 46'33		46'48	...	...	...	12. 53. 49'46	- 2'62
	19	37 Comæ	S	0'1	3'1	6'1	12'0	14'8	17'8	26'1	29'3	32'2	34'9	12. 55. 17'67		17'67	...	...	...	12. 55. 20'65	- 2'79
	20	Bradley 109 S.P..	S	...	...	17'0	30'1	9'9	24'0	37'4	4'9	...	...	13. 0. 10'42		13'26	...	...	...	1. 0. 16'24	+ 3'83
	21	θ Virginis	S	18'1	20'8	23'1	28'0	30'4	33'1	40'4	42'9	45'4	48'0	13. 4. 33'04		33'41	36'32	2'91	.....	.....	
	22	53 Virginis	S	15'1	17'7	20'2	25'3	28'0	30'4	38'1	40'6	43'2	45'8	13. 6. 30'46		30'95	...	...	...	13. 6. 33'93	- 2'50
	23	σ Virginis	S	5'8	8'1	10'8	15'6	18'0	20'6	28'1	30'4	33'0	35'5	13. 12. 20'61		20'87	...	...	...	13. 12. 23'85	- 2'60
	24	Spica	S	26'8	29'4	32'0	36'9	39'3	42'0	49'5	52'0	54'6	57'1	13. 19. 41'98		42'41	45'35	2'94	.....	.....	
	25	Polaris S.P.	S	25'2	43'9	53'1	2'5	12'6	27'8	38'2	46'7	56'4	6'0	13. 19. 43'52		5'75	7'91	2'16	.....	.....	
	26	40 Cassiopeiæ S.P.R.	S	17'8	25'5	34'1	42'1	...	...	...	...	...	...	13. 30. 6'67		7'38	...	...	...	1. 30. 10'36	+ 1'71
	27	υ Boötis	R.	11'4	13'9	16'5	21'6	24'1	26'8	...	...	...	...	13. 44. 26'78		27'42	...	...	...	13. 44. 30'40	- 2'78
	28	9 Boötis	R.	31'9	34'5	37'5	42'9	45'6	48'6	...	...	...	...	13. 51. 48'57		49'18	...	...	...	13. 51. 52'16	- 2'92
	29	Piazzi XIII. 287..	S	35'2	38'0	40'4	45'3	48'0	50'2	58'0	0'3	2'8	5'2	13. 58. 50'36		50'76	...	...	...	13. 58. 53'74	- 2'78
	30	94 Virginis	S	31'8	34'0	36'7	41'8	44'1	46'7	54'0	56'5	59'1	1'7	14. 0. 46'66		47'06	50'02	2'96	.....	.....	
	31	14 Boötis	S	...	...	...	59'5	2'1	4'8	12'2	...	...	...	14. 9. 4'67		4'86	...	...	...	14. 9. 7'84	- 2'83
	32	Arcturus	S	38'9	41'4	44'1	49'2	52'1	54'6	2'5	5'4	8'0	10'6	14. 10. 54'71		54'84	57'89	3'05	.....	.....	
	33	Bradley 332 S.P.	S	46'6	52'8	59'3	5'5	...	...	...	...	...	...	14. 20. 24'29		25'64	...	...	...	2. 20. 28'62	+ 0'92
	34	Lalande F. 404 S.P.	S	...	...	...	36'1	...	...	...	20'5	26'8	32'9	14. 20. 55'14		56'50	...	...	...	2. 20. 59'48	+ 0'92
	35	Oeltz. Arg. (N.) 2766 S.P.	S	49'8	57'4	3'4	9'3	...	...	...	...	...	...	14. 21. 28'24		29'60	...	...	...	2. 21. 32'58	+ 0'92
	36	Oeltz. Arg. (N.) 14718	S	...	...	...	3'0	11'4	19'6	43'5	...	...	...	14. 31. 19'46		18'24	...	...	...	14. 31. 21'22	- 5'13
	37	31 Boötis	S	...	...	...	...	32'0	39'3	41'8	44'2	46'8	...	14. 36. 31'87		32'10	...	...	...	14. 36. 35'08	- 2'90
	38	ε² Boötis	S	9'9	12'4	15'5	21'0	23'9	26'5	34'9	37'8	40'5	43'3	14. 40. 26'60		26'64	29'67	3'03	.....	.....	
	39	α Libræ	B	51'4	53'9	56'5	1'6	4'1	6'7	14'6	17'0	19'6	22'1	14. 45. 6'77		7'26	10'42	3'16	3'21	.....	
	40	α Libræ (E&E)	B	30'8	46'2	1'7	17'0	32'5	47'9	3'5	...	...	...	14. 45. 6'56		7'05	10'42	3'37	.....	.....	
	41	Saturn 1 L.	S	58'6	1'1	3'9	8'9	11'4	14'0	21'6	24'0	26'6	29'1	14. 49. 13'94		15'06	...	...	2'99	14. 49. 18'04	
	42	Saturn 2 L.	S	59'9	2'6	5'1	10'1	12'7	15'2	22'9	25'3	28'0	30'5	14. 49. 15'25		...	...	...	...	...	
	43	ε³ Libræ	B	51'6	54'1	56'8	1'6	4'1	6'7	14'2	16'8	19'3	21'9	14. 51. 6'73		7'17	10'41	3'24	3'21	.....	
	44	ω Boötis	S	...	...	22'1	27'6	30'3	33'1	41'2	44'0	...	...	14. 57. 33'08		33'14	...	...	2'99	14. 57. 36'12	- 3'01
	45	Oeltz. Arg. (N.) 3493 S.P.	S	...	...	...	...	21'0	26'0	30'6	39'6	44'2	49'1	15. 3. 21'29		22'27	...	...	...	3. 3. 25'25	+ 0'17
	46	23 Libræ	S	7'1	10'0	12'9	18'1	20'9	23'6	31'9	34'4	37'3	40'0	15. 7. 23'65		24'24	...	...	...	15. 7. 27'22	- 3'22
	47	5 Serpentis	S	...	...	...	...	...	...	7'3	9'6	12'1	14'7	15. 13. 59'86		0'16	...	...	...	15. 14. 3'14	- 3'01
	48	12 Ursæ Minoris..	S	26'4	34'0	42'0	57'7	5'5	13'2	...	...	...	...	15. 17. 13'27		12'08	...	...	...	15. 17. 15'06	- 4'95
	49	Piazzi III. 51 S.P.	S	...	...	...	...	34'5	39'4	44'2	54'0	59'1	4'1	15. 20. 34'57		35'61	...	...	...	3. 20. 38'59	+ 0'25
	50	δ Serpentis (S. Star)	S	...	...	39'6	44'4	47'0	49'6	57'1	59'7	...	...	15. 29. 49'59		49'81	...	...	...	15. 29. 52'79	- 3'00
	51	δ Serpentis (N. Star)	S	34'6	36'9	...	...	...	...	...	...	2'1	4'8	15. 29. 49'62		49'84	...	...	...	15. 29. 52'82	- 3'00
	52	α Serpentis	S	53'3	55'9	58'5	3'4	6'0	8'4	16'0	18'4	20'9	23'5	15. 39. 8'45		8'70	11'69	2'99	.....	.....	
	53	δ Coronæ	S	57'3	0'0	2'9	8'3	11'1	14'0	22'1	24'9	27'8	30'4	15. 45. 13'91		13'97	...	...	...	15. 45. 16'95	- 3'04

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 40. — 10^s.55.

2. Observed over wire T with the transit-micrometer set to readings 33'°800, 34'°100, 34'°400, 34'°700, 35'°600, 36'°500, 36'°800, 37'°100, 37'°400.

14, 20. Very faint.

25. Observed over wire U with the transit-micrometer set to readings 35'°948, 35'°774, 35'°698, 35'°594, 35'°559, 35'°376, 35'°319, 35'°215, 35'°158, 35'°080.

34, 35. Observed in dark field with wires illuminated.

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[89]

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.			
															Collimation.										
															(Level).										
															[Azimuth].										
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m	s					h	m	s	
				s	s	s	s	s	s	s	s	s	s												
May 30	1	χ Herculis.....	S	...	...	...	58.5	1.9	5.1	15.2	18.4	22.0	25.1	15.49.	5.15	+ 1.11	4.98			2.99	15.49. 7.96	-	3.21		
	2	ε Coronæ	S	0.1	2.9	5.8	11.3	14.1	16.8	25.1	28.0	30.9	33.6	15.53.	16.89	(- 4.12)	16.93			[- 0.02]	15.53. 19.91	-	3.04		
	3	Groomb. 771 S.P.	S	...	...	...	44.3	9.7	18.9	27.6	...	...	...	15.57.	10.05	[+ 8.13]	11.89				3.57. 14.87	+	1.47		
	4	Piazzi XV. 265 ...	S	30.5	33.5	36.2	41.6	44.5	47.2	55.4	58.1	0.9	3.8	16.	1.47.20		47.80				16. 1.50.78	-	3.45		
	5	Lalande 7721 S.P.	S	58.6	3.1	7.7	12.1	...	...	...	...	...	...	16.	6.25.80		26.77				4. 6.29.75	+	0.01		
	6	Bradley 2060.....	S	30.7	33.2	35.9	40.9	43.5	46.1	53.9	56.2	59.1	1.6	16.	6.46.14		46.30				16. 6.49.28	-	3.02		
	7	Piazzi XVI. 36 ...	S	40.6	43.7	46.5	52.2	55.1	58.1	6.5	9.5	12.3	15.5	16.	12.58.03		58.69				16. 13. 1.67	-	3.60		
	8	24 Scorpii	S	17.6	20.2	23.1	28.1	30.7	33.2	41.0	43.6	46.2	48.8	16.	35.33.28		33.78				16. 35.36.76	-	3.35		
	9	γ Draconis	S	38.3	44.1	50.1	1.7	7.3	13.2	30.6	36.1	42.2	47.8	16.	40.13.20		12.44				16. 40.15.42	-	3.76		
	10	Piazzi IV. 207 S.P.	S	34.1	42.6	52.0	0.7	27.6	36.7	45.2	3.1	12.5	21.3	16.	51.27.49		29.40				4.51. 32.38	+	1.07		
	11	Piazzi IV. 218 S.P.	S	24.6	33.2	42.1	51.1	17.6	26.9	35.7	53.4	2.5	11.5	16.	53.17.77		19.68				4.53. 22.66	+	1.06		
	12	α ² Herculis	S	...	...	...	43.8	48.8	51.4	54.0	1.6	4.1	...	17.	9.53.97		54.16	57.24	3.08		.....				
	13	α ² Herculis	S	39.0	41.5	...	...	...	...	...	...	...	7.1	9.5	17. 9.54.30		54.49				17. 9.57.47	-	2.98		
	14	Piazzi XVII. 31..	S	...	...	29.3	...	37.2	40.0	48.1	50.9	...	...	17.	11.40.04		40.61				17. 11.43.59	-	3.53		
	15	39 Ophiuchi	S	23.7	26.5	...	...	...	...	...	...	...	53.5	56.2	17. 11.40.01		40.58				17. 11.43.56	-	3.53		
	16	Groomb. 967 S.P.	S	0.8	4.9	9.1	13.1	25.5	30.0	34.0	42.0	46.5	50.7	17.	21.25.62		26.49				5.21. 29.47	-	0.44		
	17	α Ophiuchi	S	50.8	53.4	56.0	1.0	3.5	6.1	13.7	16.2	18.8	21.2	17.	30.6.09		6.29	9.31	3.02		.....				
	18	δ 2 L.	D	48.4	51.1	54.0	59.4	2.1	4.9	13.1	15.9	18.5	21.2	20.	29.4.89	(- 3.09)	5.47			3.07	20. 28. 0.04				
	19	α Delphini	D	32.0	34.5	37.1	42.1	44.9	47.6	55.1	57.5	0.3	2.8	20.	34.47.41		47.64	50.69	3.05		.....				
May 31	20	⊙ 1 L.....	T	58.1	0.8	3.1	8.8	11.3	13.9	22.1	24.9	27.5	30.0	4.34.	14.08	[+ 7.02]	22.57		3.14	4.35. 25.70					
	21	⊙ 2 L.....	T	14.8	17.3	20.1	25.6	28.1	30.8	38.8	41.3	44.0	46.9	4.36.	30.80		25.18		[- 0.04]	1.22. 28.30	+	6.45			
	22	Polaris S.P.	B	48.1	0.0	11.2	23.0	34.4	57.4	9.9	20.5	33.2	44.1	13.	19.46.18		3.80	8.69	4.89		1.20. 6.92	+	45.16		
	23	Carrington 203 S.P.	B	...	...	...	...	...	...	...	...	...	...	13.	22.21.95		10.05				1.31. 13.17	+	12.15		
	24	Carrington 218 S.P.	B	38.0	45.4	52.2	58.6	9.9	18.2	24.5	31.0	...	...	13.	31.4.73		8.65	11.75	3.10		13.36. 11.77	-	2.65		
	25	m Virginis.....	B	53.2	55.9	58.2	3.1	5.9	8.2	15.9	18.1	20.8	23.3	13.	36.8.28		8.58	11.75	3.17		.....				
	26	m Virginis.(E&E)	B	34.1	49.1	4.2	19.3	34.4	49.2	4.4	...	...	...	13.	36.8.21		20.73	23.89	3.16		13.56. 23.85	-	2.75		
	27	τ Virginis	B	5.7	8.0	10.5	15.4	17.9	20.4	28.0	30.2	32.9	35.3	13.	56.20.45		20.80	23.89	3.09		.....				
	28	τ Virginis.(E&E)	B	47.1	1.9	16.8	31.5	46.4	1.2	16.0	...	...	...	13.	56.20.52		52.90				2. 5.56.02	+	0.58		
	29	B.D.+63° No.305 S.P.	B	18.4	24.0	29.6	35.0	52.1	57.9	3.1	14.2	20.0	25.3	14.	5.51.91		42.03				20.23. 45.14	-	2.09		
	30	40 Cygni	B	23.1	26.2	29.3	35.9	38.9	42.2	51.6	54.6	57.6	0.9	20.	23.42.06		48.76				20.27. 51.87	-	1.73		
	31	θ Cephei	B	...	...	...	...	43.6	49.2	5.5	10.6	16.1	21.3	20.	27.49.25		26.13				20.30. 29.24	-	2.35		
	32	ζ Delphini.....	B	...	...	...	...	...	...	33.4	36.0	38.6	41.4	20.	30.25.93		39.59				20.32. 42.70	-	2.34		
	33	β Delphini	B	...	...	...	...	...	...	39.4	47.0	49.6	52.0	20.	32.39.39		47.53	50.72	3.19		20.34. 50.64	-	2.31		
	34	α Delphini	B	...	...	...	...	...	...	55.1	57.5	0.1	2.6	20.	34.47.35		51.90				20.37. 55.01	-	1.91		
	35	α Cygni	B	30.9	34.3	38.1	45.1	48.5	52.0	2.5	6.0	9.5	12.9	20.	37.52.01		59.07				20.42. 2.18	-	2.05		
	36	ε Cygni	B	41.2	44.0	47.1	53.1	56.0	59.1	8.0	10.9	13.9	16.9	20.	41.59.05		6.67	9.69	3.02		20.50. 9.78	-	2.07		
	37	32 Vulpeculæ ...	B	...	...	...	...	3.8	...	14.9	17.8	20.5	23.1	20.	50.6.59		7.46				21. 1.10.56	-	1.79		
	38	ξ Cygni	B	47.1	50.5	54.0	0.7	4.0	7.5	17.9	21.1	24.5	27.9	21.	1.7.55		13.03				21. 2.16.13	-	2.00		
	39	61 Cygni	B	54.1	57.5	0.7	6.8	10.0	12.9	22.3	25.7	28.5	31.8	21.	2.13.06		29.47	32.51	3.04		21. 8.32.57	-	1.94		
	40	ζ Cygni	B	12.1	15.1	18.0	24.0	26.7	29.5	37.9	40.7	43.5	46.2	21.	8.29.40		36.96				21.10. 40.06	-	1.82		
	41	τ Cygni	B	18.1	21.4	24.5	30.9	34.0	37.0	46.1	49.4	52.5	55.7	21.	10.36.99		18.42				21.13. 21.52	-	1.78		
	42	σ Cygni	B	59.5	2.5	5.9	12.0	15.2	18.2	28.0	31.0	34.2	37.7	21.	13.18.45		3.89				21.16. 6.99	-	1.28		
	43	α Cephei	B	32.8	38.0	43.1	53.8	58.9	4.4	20.1	25.3	30.7	35.9	21.	16.4.35		44.74				21.19. 42.30				
	44	δ 2 L.	B	28.3	30.9	33.3	38.9	41.7	44.2	52.1	54.9	57.6	0.1	21.	20.44.28		4.23	7.38	3.15		21.26. 7.33	-	2.36		
	45	β Aquarii	B	...	...	54.0	58.9	1.4	3.9	11.2	13.7	...	...	21.	26.3.87		16.59				21.27. 19.69	-	0.78		
	46	β ³ Cephei	B	34.0	40.9	48.5	2.4	10.0	17.3	39.2	46.4	53.7	0.8	21.	27.17.39		19.10				21.34. 22.20	-	2.51		
	47	γ Capricorni	B	3.1	5.8	8.3	13.5	16.0	18.7	26.1	28.9	31.6	34.1	21.	34.18.64		3.58	6.68	3.10		21.39. 6.68	-	2.06		
	48	ε Pegasi	B	...	...	53.3	58.2	0.9	3.4	10.9	13.3	...	...	21.	39.3.35		4.65	9.06	4.41		1.20. 7.67	+	44.79		
	49	Polaris	EB	20.1	27.5	38.0	58.5	5.6	18.0	44.0	50.5	9.8	19.0	1.20.	21.36	[+ 6.78]									
June 1	50	⊙ 1 L.....	EB	3.5	6.3	9.1	14.5	16.9	19.8	28.0	30.2	33.4	35.9	4.38.	19.79	+ 1.37	28.25		[- 0.05]	4.39. 31.26					
	51	⊙ 2 L.....	EB	20.5	23.1	25.9	31.2	34.0	36.8	44.6	47.4	50.0	52.9	4.40.	36.67	(- 4.62)									
	52	ι Ursæ Majoris...	EB	42.1	45.9	49.7	56.9	0.7	4.3	15.6	19.2	23.0	26.7	8.52.	4.45	[+ 6.32]	4.15				8.52. 7.15	-	1.76		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 26 and 28, — 11^s.05 and — 11^s.06.
 Corrections for passage of Semidiameter, Nos. 18 and 44, — 68^s.50 and — 65^s.56.

7. Very faint; scarcely visible. 18, 44. Correction to R.A. on true meridian, + 0^s.02. 20, 21. Very diffused.
 22. Observed over wire T with the transit-micrometer set to readings 36^s.100, 36^s.000, 35^s.900, 35^s.800, 35^s.700, 35^s.600, 35^s.500, 35^s.400, 35^s.300, 35^s.200, 35^s.100.
 24. Observed over wire T with the transit-micrometer set to readings 36^s.400, 36^s.200, 36^s.000, 35^s.800, 35^s.600, 35^s.400, 35^s.200, 35^s.000, 34^s.800.
 29. Observed in partially illuminated field. 30, 39, 47. Very faint; foggy. 37. Very faint.
 49. Observed over wire U with the transit-micrometer set to readings 35^s.258, 35^s.306, 35^s.417, 35^s.593, 35^s.660, 35^s.758, 35^s.980, 36^s.025, 36^s.198, 36^s.290.

1898GGAJMM. 564...1C

[90]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.	
															Collimation. (Level).	Error of							
																							Azimuth.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.											h	m	s
June 1	1	α Hydræ	EB	11.5	13.9	16.2	21.4	23.9	26.4	33.9	36.2	38.9	41.5	9. 22. 26.42	+ 1.37		26.72	29.70	2.98	3.02	9. 22. 29.72	- 1.13	
	2	γ Cephei S.P.	EB	...	...	...	...	...	...	...	42.0	52.9	4.0	11. 34. 57.90	(- 4.62)		59.84			[- 0.05]	23. 35. 2.84	+ 1.83	
	3	β Leonis	EB	29.1	31.6	34.2	39.3	41.9	44.5	52.1	54.6	57.1	59.8	11. 43. 44.44	[+ 6.32]		44.53	47.47	2.94		11. 43. 47.53	- 2.23	
	4	γ Ursæ Majoris...	EB	56.7	1.1	5.3	13.7	17.9	22.1	34.9	38.9	43.2	47.6	11. 48. 22.18			21.76				11. 48. 24.76	- 3.08	
	5	β Cassiopeiæ S.P.	EB	...	...	15.1	19.8	34.1	38.6	43.5	52.8	...	...	12. 3. 33.93			34.73				0. 3. 37.72	- 0.24	
	6	γ Corvi	EB	10.3	13.1	15.8	20.9	23.5	26.1	33.8	36.2	39.0	41.7	12. 10. 26.07			26.46				12. 10. 29.45	- 2.11	
	7	η Virginis	EB	19.3	21.8	24.2	29.1	31.6	34.1	41.6	43.9	46.3	48.9	12. 14. 34.10			34.33	37.30	2.97		12. 14. 37.32	- 2.26	
	8	γ Comæ	EB	28.0	30.9	33.8	39.3	42.1	45.1	53.4	56.1	59.0	2.0	12. 21. 45.00			44.95				12. 21. 47.94	- 2.60	
	9	κ Draconis.....	EB	...	28.8	35.8	50.4	57.8	5.5	27.3	34.4	42.0	...	12. 29. 5.30			4.28				12. 29. 7.27	- 4.52	
	10	α Cassiopeiæ S.P.	EB	...	...	...	...	32.6	37.1	41.3	50.1	54.7	59.1	12. 34. 32.57			33.30				0. 34. 36.29	- 0.21	
	11	35 Comæ	EB	54.1	56.8	59.6	4.8	7.4	10.1	18.0	20.6	23.5	26.0	12. 48. 10.12			10.15				12. 48. 13.14	- 2.62	
	12	36 Comæ	EB	30.6	33.4	36.0	41.1	43.9	46.5	54.1	56.8	59.4	2.0	12. 53. 46.41			46.48				12. 53. 49.47	- 2.60	
	13	ϵ Virginis	EB	44.1	46.8	49.3	54.2	56.8	59.5	6.9	9.4	12.0	14.5	12. 56. 59.37			59.49	2.52	3.03		12. 57. 2.48	- 2.55	
	14	ϵ Virginis..(E&B)	EB	25.3	40.3	56.0	...	25.9	41.2	56.4	...	...	...	12. 56. 59.15			59.27	2.52	3.25		.....		
	15	Bradley 109 S.P..	EB	...	...	17.1	30.1	11.0	24.4	38.2	4.9	...	...	13. 0. 10.82			13.19				1. 0. 16.18	+ 3.60	
	16	α Comæ	EB	39.8	42.2	44.9	50.0	52.6	55.2	3.1	5.6	8.1	10.9	13. 4. 55.27			55.33				13. 4. 58.32	- 2.63	
	17	σ Virginis	EB	5.6	8.1	10.6	15.5	18.0	20.5	28.0	30.5	33.0	35.3	13. 12. 20.53			20.70				13. 12. 23.69	- 2.59	
	18	Polaris S.P.	EB	11.2	23.5	32.0	42.5	52.1	11.1	44.1	54.9	18.0	31.0	13. 19. 46.02			5.09	9.44	4.35		1. 20. 8.08	+ 44.41	
	19	Carrington 218 S.P..	EB	56.6	14.6	31.6	47.2	22.3	37.7	54.5	11.5	...	...	13. 31. 4.50			10.17				1. 31. 13.16	+ 11.92	
	20	η Ursæ Majoris...	EB	4.0	8.0	12.0	19.5	23.2	27.2	38.6	42.5	46.1	50.2	13. 43. 27.17			26.85				13. 43. 29.84	- 3.32	
	21	Arcturus	EB	39.1	41.6	44.2	49.5	52.1	54.8	2.7	5.1	8.0	10.5	14. 10. 54.79			54.85	57.87	3.02		14. 10. 57.84	- 2.84	
	22	Oeltz. Arg. (N.) 14718	EB	31.6	39.6	47.1	3.5	10.8	19.3	...	...	...	...	14. 31. 19.17			18.05				14. 31. 21.04	- 5.06	
	23	ϵ^2 Boötis	EB	10.0	12.7	15.6	21.1	23.9	26.6	35.1	37.9	40.6	43.3	14. 40. 26.71			26.68	29.66	2.98		14. 40. 29.67	- 2.99	
	24	Saturn 1 L.	EB	28.9	31.4	34.1	39.1	41.8	44.1	51.6	54.1	56.9	59.4	14. 48. 44.16									
	25	Saturn 2 L.	EB	30.1	32.8	35.4	40.3	42.9	45.5	53.0	55.5	58.1	0.6	14. 48. 45.44			45.14				14. 48. 48.13		
	26	ψ Boötis	EB	...	...	...	...	...	...	7.6	10.3	13.2	16.0	14. 59. 59.32			59.29	2.36	3.07		15. 0. 2.28	- 3.01	
	27	Groombridge 2283	EB	56.1	6.2	13.3	42.5	51.5	58.7	24.2	32.6	52.5	59.8	15. 11. 14.94			5.12				15. 11. 8.11	- 25.39	
	28	χ Herculis.....	EB	44.9	48.1	51.8	58.5	1.8	5.1	15.2	18.5	22.1	25.2	15. 49. 5.15			4.94				15. 49. 7.93	- 3.21	
	29	Oeltz. Arg. (N.) 15973	EB	...	...	...	...	...	...	34.0	46.0	57.0	8.9	15. 51. 46.03			44.21				15. 51. 47.20	- 6.22	
	30	Lalande 7539 S.P.	EB	...	...	48.5	53.1	6.0	10.1	14.7	22.9	...	...	16. 1. 5.84			6.53				4. 1. 9.52	- 0.12	
	31	Bradley 2060.....	EB	30.5	33.2	35.9	40.9	43.5	46.1	54.0	56.4	59.1	1.6	16. 6. 46.15			46.23				16. 6. 49.22	- 3.04	
	32	W. B. XVI. 149....	EB	25.1	27.5	30.1	...	...	...	50.1	52.8	55.5	16. 10. 40.20			40.54				16. 10. 43.53	- 3.26		
	33	20 Ursæ Minoris.	EB	...	...	...	...	2.1	12.6	42.0	52.0	1.6	11.7	16. 15. 12.87			11.41				16. 15. 14.40	- 5.25	
	34	Lalande F.659-60 S.P.	EB	...	...	...	...	...	...	19.1	34.4	50.0	21.4	16. 18. 18.61			21.25				4. 18. 24.24	+ 3.46	
	35	Groombridge 2363	EB	...	...	...	...	50.1	3.6	43.2	55.1	8.2	21.4	16. 26. 3.41			1.39				16. 26. 4.38	- 6.22	
	36	ζ Herculis.....	EB	4.5	7.5	10.2	16.1	18.9	22.0	30.8	33.7	36.4	39.5	16. 37. 21.99			21.92	24.91	2.99		16. 37. 24.91	- 3.01	
	37	Piazzi IV. 170 S.P.	EB	...	...	55.0	0.6	17.0	22.6	27.9	39.3	...	...	16. 42. 17.02			17.96				4. 42. 20.95	+ 0.09	
	38	Piazzi IV. 191 S.P.	EB	8.6	17.5	27.1	35.2	2.3	12.1	...	...	...	...	16. 49. 2.53			4.11				4. 49. 7.09	+ 1.09	
	39	Piazzi IV. 207 S.P.	EB	...	...	51.7	0.5	27.3	36.5	45.4	3.1	...	...	16. 51. 27.33			28.89				4. 51. 31.87	+ 1.03	
	40	Piazzi IV. 218 S.P.	EB	...	...	...	...	...	...	35.9	53.4	2.8	11.8	16. 53. 18.01			19.58				4. 53. 22.56	+ 1.01	
	41	Piazzi IV. 254 S.P.	EB	...	...	34.5	43.5	10.3	19.0	27.9	45.6	...	...	16. 59. 10.04			11.60				4. 59. 14.58	+ 0.93	
	42	Groomb. 933 S.P.	EB	5.8	9.8	13.9	18.0	30.5	34.8	39.0	47.1	51.0	55.4	17. 3. 30.49			31.15				5. 3. 34.13	- 0.38	
	43	15 Camelopardi S.P..	EB	...	...	...	...	26.1	30.9	35.5	44.5	49.3	54.1	17. 10. 26.08			26.86				5. 10. 29.84	- 0.29	
	44	θ Ophiuchi	EB	21.0	23.7	26.4	32.0	34.5	37.5	45.5	48.3	51.0	53.9	17. 15. 37.41			37.88	40.82	2.94		17. 15. 40.86	- 3.58	
	45	Groomb. 960 S.P.	EB	31.0	35.1	39.5	43.3	55.1	59.9	4.3	12.2	16.7	21.0	17. 18. 55.77			56.44				5. 18. 59.42	- 0.44	
	46	Piazzi XVII. 148.	EB	57.1	59.6	2.1	...	...	12.2	...	22.2	24.8	27.3	17. 29. 12.21			12.32				17. 29. 15.30	- 3.00	
	47	Lalande F. 2926..	EB	57.8	3.6	11.9	32.0	40.0	50.0	...	...	...	...	17. 34. 21.06			13.45				17. 34. 16.43	- 13.25	
	48	α Herculis.....	EB	1.5	5.5	9.2	16.5	20.1	24.0	35.1	38.9	42.5	46.4	17. 47. 24.01	- 35.73		19.96				17. 47. 22.94	- 2.93	
	49	Piazzi V. 253 S.P.	EB	...	49.5	55.8	2.0	20.7	27.0	33.6	46.0	52.5	...	17. 51. 20.83			28.22				5. 51. 31.20	- 0.23	
	50	Piazzi XVII. 379.	EB	...	5.9	9.1	16.0	19.1	22.6	32.9	36.1	39.3	...	18. 1. 22.66			19.08				18. 1. 22.06	- 2.83	
	51	Piazzi XVII. 384.	EB	...	...	...	...	41.8	52.1	55.5	59.0	2.0	18. 1. 41.99			38.41				18. 1. 41.39	- 2.83		
	52	μ Sagittarii	EB	19.5	22.1	24.7	30.1	32.7	35.4	43.2	45.8	48.4	51.2	18. 7. 35.34			33.10	36.03	2.93		18. 7. 36.08	- 3.46	
	53	ϵ Pegasi	H	48.8	51.1	53.8	58.8	1.2	3.8	11.2	13.8	16.1	18.8	21. 39. 3.76	+ 1.37		3.92	6.71	2.79	2.84	.....		
	54	Polaris	HF	31.5	46.0	56.4	6.2	27.4	35.4	50.2	59.4	10.1	22.1	1. 20. 24.83	(- 4.23)		4.83	9.81	4.98	3.00	1. 20. 7.83	+ 44.04	
														(- 5.12)							[- 0.07]		

For Nos. 48 to 52. Reading of Transit-Micrometer 36"600.
Correction to the time by Hardy for reduction to Sideral Standard, applied to form Concluded Transit. No. 14, — 11"72.

18. Observed over wire R with the transit-micrometer set to readings 36"378, 36"213, 36"140, 36"065, 35"972, 35"800, 35"515, 35"422, 35"198, 35"082.
19. Observed over wire T with the transit-micrometer set to readings 37"600, 37"100, 36"600, 36"100, 35"100, 34"600, 34"100, 33"600.
22, 45. Observed in dark field with wires illuminated.
27. Observed over wire T with the transit-micrometer set to readings 35"223, 35"453, 35"590, 36"075, 36"210, 36"350, 36"782, 36"891, 37"219, 37"359.
29. Observed over wires V, W, X and Y.

MONTH AND DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.						
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m							s					
				s	s	s	s	s	s	s	s	s	s		s	s							s					
June 1	1	Venus 1 L.	RC	49.1	51.8	54.5	...	...	...	...	15.5	18.0	20.8	4. 1. 4.96	+ 1.37	5.30			3.00	4. 1. 8.29								
	2	Venus 2 L.	RC	...	...	...	0.2	2.9	5.7	...	...	...	...	4. 1. 5.59	(- 5.12)							[+ 6.32]	[- 0.07]					
June 2	3	⊙ 1 L.	RC	...	...	...	...	...	...	33.8	36.5	39.1	41.8	4. 42. 25.81	(- 5.79)	34.28			4. 43. 37.27									
	4	⊙ 2 L.	RC	26.8	29.3	32.0	37.3	40.1	...	50.9	53.4	56.1	58.8	4. 44. 42.77														
	5	Procyon.	RC	34.5	36.9	39.2	44.1	46.7	49.1	56.8	59.4	1.9	4.1	7. 33. 49.29														
	6	Pollux.	RC	38.3	41.2	44.0	49.7	52.5	55.4	3.7	6.2	9.3	12.0	7. 38. 55.26														
	7	β Leonis.	RC	29.1	31.8	34.2	39.4	42.0	44.5	52.1	54.6	57.3	59.9	11. 43. 44.51														
	8	β Virginis.	RC	...	3.2	5.9	10.7	13.1	15.6	23.1	25.5	28.0	...	11. 45. 15.66														
	9	γ Ursæ Majoris.	RC	...	23.6	28.0	36.6	41.1	45.4	58.5	2.6	7.1	...	13. 19. 45.40														
	10	γ Ursæ Majoris.	RC	...	24.5	28.9	37.5	42.0	46.2	59.4	3.6	8.0	...	13. 19. 46.30														
	11	Polaris S.P.	RC	8.0	14.9	23.7	40.5	48.8	55.3	14.0	20.9	29.9	43.6	13. 19. 43.56														
	12	Venus 1 L.	W	54.9	57.4	...	...	...	...	...	...	24.0	26.5	4. 6. 10.72														
	13	Venus 2 L.	W	...	...	0.7	6.0	8.5	11.0	...	...	...	...	4. 6. 11.18														
	June 3	14	Polaris S.P.	W	32.0	37.1	42.6	48.7	54.0	14.2	20.0	26.0	31.6	37.6							13. 19. 44.33	[+ 7.62]	10.97	10.97	2.29	2.86	4. 6. 13.82	
		15	3 Boötis.	W	37.0	40.0	42.7	48.0	50.6	53.6	...	...	...	...							13. 41. 53.59							
16		ε Cassiopeiae S.P.	W	17.3	23.0	28.7	34.0	50.2	55.6	1.3	11.9	17.6	23.0	13. 46. 50.21														
17		η Boötis.	W	...	...	...	...	...	...	51.8	54.1	56.9	59.6	13. 49. 43.90														
18		θ Boötis.	W	...	...	...	...	46.5	49.4	57.8	0.5	...	...	13. 51. 49.37														
19		τ Virginis.	W	...	...	...	15.9	18.3	20.9	28.2	...	...	...	13. 56. 20.85														
20		π Hydræ.	W	9.8	12.5	15.3	20.7	23.5	26.3	34.4	37.2	40.0	42.9	14. 0. 26.29														
21		δ Boötis.	W	...	...	...	...	36.7	39.5	47.8	...	53.2	...	14. 5. 39.53														
22		ρ Boötis.	R.	28.6	45.8	2.9	5.8	8.7	...	...	...	...	...	14. 27. 20.24														
23		ρ Boötis.	W	...	...	...	...	32.6	35.6	38.3	55.5	12.9	14. 27. 21.16															
24		ο Boötis.	W	...	...	...	...	...	31.1	33.6	36.2	38.9	14. 40. 23.35															
25		μ Aquarii.	H	47.2	49.9	52.2	57.2	59.8	2.2	9.9	12.2	14.9	17.4	20. 47. 2.31														
26		32 Vulpeculæ	H	50.5	53.1	56.0	1.6	4.3	7.2	15.5	18.1	21.1	24.0	20. 50. 7.17														
27		δ 2 L.	CD	...	...	...	...	45.4	48.0	55.5	58.0	0.5	3.1	23. 36. 47.98														
28		α Andromedæ ...	CD	42.1	45.0	47.9	53.4	56.1	59.1	7.4	10.1	13.0	16.0	0. 2. 59.04														
29		Polaris.	HA	39.7	6.5	23.5	40.5	51.2	5.9	18.7	28.0	40.0	48.9	1. 20. 33.16														
June 4	30	⊙ 1 L.	HA	22.7	25.2	28.0	33.4	36.1	38.9	47.0	49.5	52.6	55.0	4. 50. 38.87	(- 6.16)	47.54	12.20	2.43	2.58	4. 51. 50.35								
	31	⊙ 2 L.	HA	40.0	42.8	45.6	50.9	53.6	56.2	4.1	6.8	9.6	12.1	4. 52. 56.20														
	32	δ 2 L.	D	...	43.6	46.4	51.5	54.1	56.6	4.0	6.5	9.1	...	0. 19. 56.50														
	33	Polaris.	D	18.0	31.2	45.5	28.9	39.9	53.6	26.1	39.5	55.2	37.5	1. 20. 37.42														
	34	γ Persei.	B	...	...	...	...	13.8	26.0	30.0	34.2	38.1	...	2. 57. 13.68														
	35	β Persei.	B	2.4	5.6	8.9	15.4	18.6	22.0	31.6	34.9	38.1	41.5	3. 1. 21.93														
	36	α Persei.	B	28.9	32.8	36.5	44.0	48.0	51.9	3.0	6.9	10.6	14.5	3. 16. 51.75														
	37	Venus 1 L.	B	9.4	12.1	...	...	25.4	...	...	38.6	41.2	...	4. 16. 25.35														
	38	Venus 2 L.	B	...	...	15.5	20.6	23.4	...	34.0	36.6	...	...	4. 16. 26.05														
	39	Aldebaran.	B	...	...	...	...	...	7.8	10.1	25.6	41.1	...	4. 29. 54.83														
June 5	40	⊙ 1 L.	B	30.1	32.9	35.5	40.8	43.6	46.2	54.2	57.0	59.6	2.2	4. 54. 46.24	[+ 9.08]	54.89	57.68	2.75	2.70	4. 55. 57.65								
	41	⊙ 2 L.	B	...	...	...	...	...	...	16.8	19.4	35.7	51.8	4. 57. 3.49														
	42	Rigel.	B	14.5	17.1	19.6	24.6	27.0	29.5	36.9	39.5	42.0	44.5	5. 9. 29.54														
	43	Procyon.	B	...	36.9	39.5	44.3	46.9	49.4	56.8	59.2	1.9	...	7. 33. 49.38														
	44	ο Leonis.	B	19.5	22.0	24.5	29.5	32.0	34.5	42.0	44.5	47.1	49.8	9. 35. 34.56														
	45	ε Leonis.	B	...	...	...	...	53.0	55.9	4.0	6.7	9.4	12.0	9. 39. 55.87														
	46	β Leonis.	B	42.0	44.7	47.4	52.9	55.6	58.2	6.6	9.2	12.0	14.6	10. 49. 58.35														
	47	γ Ursæ Majoris.	B	7.7	12.1	16.7	25.6	30.1	34.9	48.1	52.8	57.3	2.0	10. 55. 34.77														
	48	α Ursæ Majoris.	B	48.0	53.4	58.6	9.2	14.4	20.0	35.9	41.1	46.3	51.9	10. 57. 19.93														
	49	ψ Ursæ Majoris.	B	28.0	31.5	35.1	42.0	45.6	49.1	59.5	3.1	6.6	10.1	11. 3. 49.09														

Corrections for passage of Semidiameter, Nos. 27 and 32, — 61".05 and — 61".23.

1, 12, 37. A correction of — 0".01, for defect of illumination, has been applied in forming the concluded transit.

1, 2. Very unsteady.

3, 17, 18, 41, 42, 43. Cloudy.

5, 6. Very diffused.

11. Observed over wire X with the transit-micrometer set to readings 35".756, 35".688, 35".612, 35".479, 35".391, 35".334, 35".169, 35".106, 35".045, 34".910.

12, 13. Very cloudy.

14. Observed over wire O with the transit-micrometer set to readings 35".900, 35".850, 35".800, 35".750, 35".700, 35".500, 35".450, 35".400, 35".350, 35".300.

15. Very faint; cloudy.

22. Observed over wires M, N, O, P and Q.

23. Observed over wires V, W, X, Y and Z.

27, 32. Correction to R.A. on true meridian, + 0".01.

29. Very faint. Observed over wire T with the transit-micrometer set to readings 35".120, 35".380, 35".519, 35".690, 35".748, 35".890, 36".008, 36".087, 36".170, 36".251.

33. Observed over wire O with the transit-micrometer set to readings 34".573, 34".672, 34".793, 35".137, 35".283, 35".399, 35".653, 35".788, 35".926, 36".323.

39, 41. Observed over wires W, X, Y and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m	s		h	m	s
s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s								
June 5	1	δ Leonis.....	B	18.1	20.8	23.4	28.6	31.3	34.0	...	...	...	...	11. 8. 33.98	+ 1.37	34.02	36.76	2.74	2.77	11. 8. 36.77	- 2.09						
	2	θ Leonis.....	B	...	...	...	...	...	46.1	54.0	56.4	59.1	1.6	11. 8. 46.23	(- 6.16)	46.33			[- 0.05]	11. 8. 49.08	- 2.03						
	3	ξ ¹ Ursæ Majoris ..	B	20.2	23.1	...	...	...	37.9	...	...	52.2	55.3	11. 12. 37.76	[+ 9.08]	37.64				11. 12. 40.39	- 2.25						
	4	ξ ² Ursæ Majoris ..	B	...	...	26.1	32.0	34.9	...	46.5	49.5	...	...	11. 12. 37.83		37.71				11. 12. 40.46	- 2.25						
	5	ζ Crateris	B	51.7	54.1	56.8	1.9	4.2	7.0	14.4	17.0	19.6	22.1	11. 14. 6.89		7.37	10.10	2.73		11. 14. 10.12	- 1.71						
	6	ι Leonis	B	14.1	16.7	19.3	24.1	26.8	29.4	36.9	39.2	41.9	44.4	11. 18. 29.30		29.47				11. 18. 32.22	- 2.03						
	7	λ Draconis.....	B	33.2	40.4	47.7	1.9	9.1	16.2	38.0	45.1	52.2	59.6	11. 25. 16.41		14.97				11. 25. 17.72	- 3.79						
	8	θ Crateris	B	8.1	10.5	13.1	18.0	20.5	23.1	30.5	33.0	35.6	38.0	11. 31. 23.06		23.47				11. 31. 26.22	- 1.88						
	9	γ Cephei S.P. ...	B	51.9	2.6	13.8	24.1	57.4	8.4	19.7	41.5	52.5	3.6	11. 34. 57.44		0.29				23. 35. 3.04	+ 1.42						
	10	ξ Virginis	B	39.6	42.1	44.5	49.5	52.0	54.6	2.0	4.6	7.0	9.6	11. 39. 54.57		54.76				11. 39. 57.51	- 2.12						
	11	ν Virginis	B	...	...	...	...	...	30.0	37.5	39.9	42.4	44.9	11. 40. 30.02		30.23				11. 40. 32.98	- 2.10						
	12	β Leonis	B	29.1	31.8	34.3	39.5	42.0	44.6	52.1	54.8	57.5	0.0	11. 43. 44.59		44.70	47.43	2.73		11. 43. 47.45	- 2.19						
	13	β Virginis	B	0.9	3.4	5.9	10.8	13.3	15.9	23.1	25.6	28.1	30.5	11. 45. 15.77		16.04	18.74	2.70		11. 45. 18.79	- 2.10						
	14	γ Ursæ Majoris...	B	57.1	1.3	5.6	14.0	18.2	22.5	35.2	39.3	43.8	48.0	11. 48. 22.54		21.94				11. 48. 24.69	- 2.99						
	15	δ Virginis	S	6.4	8.9	11.5	16.4	18.9	21.4	28.9	31.2	33.8	36.2	12. 50. 21.38		21.63	24.27	2.64	2.66	.....							
	16	ε Virginis	S	44.5	47.0	49.7	54.6	57.2	59.8	7.4	9.8	12.2	14.9	12. 56. 59.73		59.88	2.49	2.61		.....							
	17	Polaris S.P.	R	11.8	23.5	34.9	47.5	50.5	20.7	31.6	42.9	54.5	7.4	13. 20. 9.43		8.53	12.66	4.13	2.77	1. 20. 11.27	+ 41.19						
	18	Polaris S.P.	B	57.9	8.9	20.1	30.2	43.1	39.8	52.2	3.8	15.1	27.0	13. 19. 41.81		9.89	12.66	2.77		1. 20. 12.63	+ 41.19						
	19	ζ Virginis	D	8.5	10.9	13.5	18.2	20.9	23.4	30.7	33.1	35.7	38.1	13. 29. 23.32		23.62	26.16	2.54	2.58	.....							
	20	ν Virginis	D	53.8	56.1	58.9	3.8	6.2	8.8	16.1	18.6	21.3	23.9	13. 36. 8.77		9.17	11.73	2.56		.....							
	21	η Ursæ Majoris...	B	4.4	8.2	12.1	20.0	23.6	27.6	38.9	42.8	46.6	50.4	13. 43. 27.50		27.03			2.77	13. 43. 29.77	- 3.26						
	22	η Boötis	B	28.1	30.8	33.5	38.6	41.2	43.9	51.8	54.1	56.9	59.6	13. 49. 43.88		43.95	46.73	2.78		13. 49. 46.69	- 2.79						
	23	ι Boötis	R	...	...	15.9	21.3	24.0	26.8	35.4	38.0	...	...	13. 56. 26.93		27.73				13. 56. 30.47	- 2.88						
	24	δ Boötis	R	49.4	5.8	22.1	24.9	27.8	...	...	...	...	...	14. 5. 38.63		39.43				14. 5. 42.17	- 2.89						
	25	δ Boötis	B	...	...	...	...	...	50.4	53.3	56.0	12.2	28.9	14. 5. 39.58		39.56				14. 5. 42.30	- 2.89						
	26	Arcturus	B	39.3	41.9	44.5	49.9	52.5	55.0	2.9	5.6	8.1	10.8	14. 10. 55.08		55.14	57.86	2.72		14. 10. 57.88	- 2.83						
	27	5 Ursæ Minoris R.	B	45.1	55.1	6.0	26.1	36.7	47.0	...	...	...	...	14. 27. 47.01		47.93				14. 27. 50.67	- 5.83						
	28	5 Ursæ Minoris...	B	...	...	...	...	...	...	20.8	30.7	41.5	52.0	14. 27. 49.98		47.72				14. 27. 50.46	- 5.83						
	29	Oeltz. Arg. (N.) 14718	B	32.1	40.0	48.1	4.0	11.9	20.0	43.6	51.6	59.6	7.6	14. 31. 19.93		18.30				14. 31. 21.04	- 4.91						
	30	109 Virginis	B	44.4	46.9	49.4	54.1	56.6	59.4	6.7	9.1	11.6	14.1	14. 40. 59.25		59.52				14. 41. 2.26	- 2.91						
	31	Lalande F. 454 S.P.	B	...	...	18.8	28.0	56.0	5.5	15.1	34.0	...	...	14. 44. 56.14		58.60				2. 45. 1.34	+ 1.78						
	32	Saturn 1 L.	B	32.1	34.6	37.2	42.1	44.7	47.4	55.1	57.5	59.9	4.6	14. 47. 47.54		48.67				14. 47. 51.41							
	33	Saturn 2 L.	B	33.5	36.0	38.5	43.5	46.0	48.6	56.2	58.8	1.3	6.0	14. 47. 48.86													
	34	20 Libræ	B	42.2	44.9	47.8	53.2	56.0	58.8	6.8	9.6	12.3	15.0	14. 57. 58.69		59.32				14. 58. 2.06	- 3.18						
	35	ψ Boötis.....	AC	42.9	45.7	48.5	53.9	56.7	59.6	7.9	10.6	13.5	16.1	14. 59. 59.57		59.52	2.36	2.84	2.81†	.....							
	36	Groombridge 2213	B	31.4	44.0	56.1	8.8	33.3	46.4	59.2	12.1	...	...	15. 2. 21.41		15.50			2.77	15. 2. 18.24	- 11.31						
	37	Groombridge 2286	B	17.3	28.6	40.1	51.4	14.0	25.8	36.9	48.2	...	...	15. 9. 2.79		57.49				15. 9. 0.23	- 10.33						
	38	Lalande F. (2) 194	B	34.4	41.8	49.6	56.5	11.4	19.0	26.2	34.1	...	...	15. 11. 4.13		0.75				15. 11. 3.49	- 7.42						
	39	12 Ursæ Minoris..	B	26.9	34.5	42.5	...	...	...	45.1	52.8	...	...	15. 17. 13.82		12.22				15. 17. 14.96	- 4.79						
	40	B.D.—19° No. 4100	B	2.5	5.1	7.9	13.4	15.8	18.2	26.1	28.7	31.5	34.1	15. 19. 18.36		18.92				15. 19. 21.66	- 3.22						
	41	B.D. + 8° No. 3030	B	58.6	1.1	3.6	8.5	11.0	13.6	20.8	23.2	26.0	28.2	15. 21. 13.48		13.69				15. 21. 16.43	- 3.02						
	42	Groombridge 700 S.P.	B	20.1	25.8	31.8	37.5	49.5	54.9	0.5	6.9	...	...	15. 30. 43.38		46.38				3. 30. 49.12	+ 2.43						
	43	Carrington 504 S.P.	B	58.0	8.1	18.9	29.7	50.6	1.1	11.4	21.7	...	...	15. 32. 39.94		45.25				3. 32. 47.99	+ 5.76						
	44	α Serpentis	B	53.9	56.3	58.9	3.6	6.1	8.6	16.1	18.5	21.1	23.6	15. 39. 8.69		8.91	11.72	2.81		15. 39. 11.65	- 3.05						
	45	18 Ursæ Minoris..	B	0.2	14.7	...	...	...	...	...	41.3	56.1	15. 45. 28.22		24.88					15. 45. 27.62	- 7.08						
	46	Lalande F. 593 S.P.	B	12.6	21.1	28.6	36.7	44.1	...	...	...	...	...	15. 45. 28.62		32.63				3. 45. 35.37	+ 3.76						
	47	Groombridge 2298	B	51.6	59.6	6.8	14.1	21.8	...	...	...	...	...	15. 49. 6.78		3.40				15. 49. 6.14	- 7.13						
	48	Oeltz. Arg. (N.) 15973	B	...	...	...	...	34.4	46.4	22.7	34.0	46.1	58.1	15. 51. 46.58		43.92				15. 51. 46.66	- 6.07						
	49	Oeltz. Arg. (N.) 15854	B	...	9.6	19.6	39.8	50.1	59.9	30.6	40.9	50.9	...	15. 57. 0.28		58.07				15. 57. 0.81	- 5.42						
	50	17 Ursæ Minoris..	B	...	...	54.0	13.8	23.8	34.1	4.5	14.6	...	...	15. 57. 34.23		32.02				15. 57. 34.76	- 5.40						
	51	β ¹ Scorpii	AC	7.7	10.1	12.8	18.0	20.7	23.3	31.1	33.7	36.4	38.9	15. 59. 23.30		23.86	26.58	2.72	2.81†	.....							
	52	Piazzi XV. 265...	B	...	33.9	36.2	42.0	44.6	47.1	55.7	58.4	1.1	...	16. 1. 47.41		48.06			2.77	16. 1. 50.80	- 3.50						
	53	Bradley 2060.....	B	...	...	...	...	...	54.1	56.5	59.3	1.9	16. 6. 46.39		46.48					16. 6. 49.22	- 3.06						
	54	δ ¹ Persei S.P.....	B	59.2	2.9	6.9	10.6	22.0	26.0	29.7	37.3	41.3	44.9	16. 10. 22.04		22.95				4. 10. 25.69	- 0.36						

17. Very windy. Observed over wire T with the transit-micrometer set to readings 36° 100, 36° 000, 35° 900, 35° 800, 35° 700, 35° 500, 35° 400, 35° 300, 35° 200, 35° 100.
18. Observed over wire T with the transit-micrometer set to readings 38° 100, 38° 000, 37° 900, 37° 800, 37° 700, 33° 500, 33° 400, 33° 300, 33° 200, 33° 100.
24. Observed over wires M, N, O, P and Q.
25. Observed over wires V, W, X, Y and Z.
- 36, 37, 38. Observed over wire T with the transit-micrometer set to readings 33° 600, 34° 100, 34° 600, 35° 100, 36° 100, 36° 600, 37° 100, 37° 600.
- 40, 41, 52. Observed in dark field with wires illuminated.
- 42, 43. Observed over wire T with the transit-micrometer set to readings 37° 600, 37° 100, 36° 600, 36° 100, 35° 100, 34° 600, 34° 100, 33° 600.
46. Observed over wire T with the transit-micrometer set to readings 36° 600, 36° 100, 35° 600, 35° 100, 34° 600.
47. Observed over wire T with the transit-micrometer set to readings 34° 600, 35° 100, 35° 600, 36° 100, 36° 600.

MON. H. D.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
June 5	1	β Persei S.P.	B	52.1	56.0	59.9	3.6	15.4	19.4	23.3	30.9	35.1	38.7	16. 12. 15.40	+ 1.37	16.33			2.77	4. 12. 19.07	- 0.35	
	2	Groomb. 815 S.P.	B	...	...	...	...	46.0	52.3	58.7	11.1	17.5	23.7	16. 15. 46.27	(- 6.16)	47.88			[- 0.05]	4. 15. 50.62	+ 0.35	
	3	Groomb. 829 S.P.	B	...	...	...	...	...	...	...	...	...	...	16. 19. 54.42	[+ 9.08]	55.98				4. 19. 58.72	+ 0.27	
	4	Groombridge 2363	B	38.1	45.1	51.3	58.2	11.2	17.8	24.1	31.0	...	...	16. 26. 4.60		1.56				16. 26. 4.30	- 6.11	
	5	Groomb. 847 S.P.	B	52.1	56.6	1.2	5.7	19.1	23.4	27.9	36.6	41.2	45.6	16. 30. 18.90		20.01				4. 30. 22.75	- 0.24	
	6	ζ Herculis	B	...	...	...	16.4	19.3	22.1	31.1	34.0	36.9	39.8	16. 37. 22.33		22.22	24.94	2.72		16. 37. 24.96	- 3.04	
	7	γ Draconis	B	39.1	44.9	50.7	2.1	8.0	13.9	...	...	...	...	16. 40. 13.86		12.80				16. 40. 15.54	- 3.76	
	8	κ Ophiuchi	B	29.8	32.1	34.8	39.8	42.2	44.8	52.1	54.8	57.2	59.8	16. 52. 44.76		44.95	47.76	2.81		16. 52. 47.68	- 3.09	
	9	ε Herculis	B	1.6	4.4	7.4	13.1	16.0	18.9	27.7	30.3	33.3	36.1	16. 56. 18.91		18.80	21.59	2.79		16. 56. 21.53	- 3.02	
	10	c Herculis	B	28.2	31.4	34.5	40.6	43.5	46.6	55.7	58.8	1.8	4.9	16. 59. 46.63		46.45				16. 59. 49.18	- 3.04	
	11	Groombridge 2415	B	4.1	7.3	10.5	17.1	20.4	23.8	33.4	36.5	40.0	43.1	17. 4. 23.65		23.38				17. 4. 26.11	- 3.05	
	12	Piazzi XVII. 22..	B	22.8	27.0	31.7	40.2	44.7	49.1	2.2	6.6	11.0	15.5	17. 5. 49.12		48.46				17. 5. 51.19	- 3.28	
	13	Capella S.P.	B	36.1	39.8	43.2	46.7	57.4	1.2	4.6	11.5	15.2	18.5	17. 8. 57.38		58.18				5. 9. 0.91	- 0.58	
	14	θ Ophiuchi	B	21.2	24.0	26.7	32.0	34.8	37.6	45.7	48.4	51.1	54.0	17. 15. 37.58		38.21	40.88	2.67		17. 15. 40.94	- 3.64	
	15	ω Herculis	B	28.8	31.8	34.7	40.5	43.4	46.4	55.3	58.0	0.9	3.9	17. 16. 46.40		46.27				17. 16. 49.00	- 3.00	
	16	Piazzi XVII. 148	B	57.3	59.8	2.1	7.3	9.8	12.3	20.0	22.2	25.1	27.6	17. 29. 12.37		12.52				17. 29. 15.25	- 3.06	
	17	Lalande F. 2926..	B	44.4	55.1	6.1	15.1	34.0	42.8	52.1	2.3	...	...	17. 34. 23.99		12.79				17. 34. 15.52	- 13.39	
	18	Groomb. 1017 S.P.	B	...	...	27.6	31.6	43.4	47.5	51.4	59.2	...	...	17. 38. 43.41		44.35				5. 38. 47.08	- 0.61	
	19	Piazzi XVII. 238.	B	34.3	37.0	40.0	45.6	48.2	51.1	59.5	2.0	4.9	7.8	17. 43. 51.07		51.74				17. 43. 54.47	- 3.73	
	20	Groombridge 2483	B	...	26.9	30.1	36.9	40.2	43.8	53.6	56.9	0.2	...	17. 49. 43.61		43.30				17. 49. 46.03	- 2.93	
	21	Radcliffe 3783 ...	B	...	33.0	36.2	43.1	46.4	49.5	59.9	3.5	6.3	...	17. 49. 49.77		49.46				17. 49. 52.19	- 2.93	
	22	Groomb. 1049 S.P.	B	26.8	32.5	39.2	45.4	...	...	...	...	...	...	17. 54. 4.22		5.85				5. 54. 8.58	- 0.28	
	23	Groomb. 1057 S.P.	B	...	...	...	...	7.2	11.8	16.3	25.3	30.0	34.3	17. 54. 7.20		8.32				5. 54. 11.05	- 0.60	
	24	Groomb. 1062 S.P.	B	...	10.9	16.2	22.0	38.1	43.9	49.4	0.2	6.0	...	17. 56. 38.29		39.70				5. 56. 42.43	- 0.45	
	25	Groomb. 1063 S.P.	B	...	...	20.9	26.2	42.8	48.2	53.8	4.7	...	...	17. 56. 42.72		44.13				5. 56. 46.86	- 0.45	
	26	Groomb. 1084 S.P.	B	7.9	12.1	16.8	21.1	34.8	39.5	44.0	52.9	57.3	2.0	18. 2. 34.80		35.92				6. 2. 38.65	- 0.65	
	27	Groomb. 1004 S.P.	B	13.0	20.9	30.3	39.1	48.2	5.9	14.2	23.5	31.4	40.6	18. 5. 56.71		7.65				6. 6. 10.38	+ 7.27	
	28	Groomb. 1115 S.P.	B	...	...	...	31.6	43.0	47.6	51.6	...	...	...	18. 7. 43.41		44.37				6. 7. 47.10	- 0.74	
	29	Groomb. 1127 S.P.	B	...	...	...	...	40.7	45.1	49.5	58.1	2.8	7.1	18. 10. 40.52		41.62				6. 10. 44.35	- 0.70	
	30	η Serpentis	CD	40.9	43.5	46.0	50.9	53.4	55.8	3.3	5.8	8.1	10.6	18. 15. 55.85		56.19	58.78	2.59	2.67†	.....		
	31	Groombridge 2593	B	9.1	12.4	16.0	22.9	26.2	29.8	40.0	43.3	46.9	50.2	18. 28. 29.71		29.38			2.77	18. 28. 32.11	- 2.78	
	32	Groomb. 1189 S.P.	B	11.9	16.5	21.3	25.9	40.0	44.5	49.5	58.8	3.4	8.1	18. 30. 39.94		41.12				6. 30. 43.85	- 0.80	
	33	Groomb. 1200 S.P.	B	40.5	46.0	51.6	56.9	13.4	18.9	24.3	35.0	40.6	46.0	18. 34. 13.27		14.66				6. 34. 17.39	- 0.74	
	34	Groomb. 1210 S.P.	B	3.1	8.2	14.0	19.5	35.6	41.4	46.8	57.5	3.1	8.5	18. 37. 35.72		37.12				6. 37. 39.85	- 0.77	
	35	Piazzi XVIII. 190	B	...	...	...	...	...	...	54.5	59.9	5.9	11.2	18. 38. 37.91		36.91				18. 38. 39.64	- 2.90	
	36	43 Camelopardi S.P.	B	44.3	51.1	58.0	5.0	25.6	32.6	39.4	53.1	0.0	6.9	18. 42. 25.53		27.32				6. 42. 30.05	- 0.64	
	37	ε Aquilæ	B	38.9	41.3	43.9	48.9	51.5	54.1	1.8	4.1	6.9	9.5	18. 54. 54.11		54.22	56.94	2.72		18. 54. 56.95	- 2.85	
	38	ε Aquilæ... (E&E)	B	22.6	37.9	53.3	8.6	23.9	39.2	54.6	...	...	...	18. 54. 54.14		54.25	56.94	2.69		.....		
	39	ζ Aquilæ	B	22.2	24.9	27.6	32.5	35.1	37.8	45.2	47.9	50.3	52.9	19. 0. 37.66		37.79	40.60	2.81		19. 0. 40.52	- 2.84	
	40	ζ Aquilæ... (E&E)	B	6.4	21.6	36.9	52.1	7.4	22.7	38.0	...	...	...	19. 0. 37.71		37.84	40.60	2.76		.....		
	41	ω Aquilæ	CD	40.9	43.5	46.0	51.0	53.6	56.0	3.5	6.1	8.7	11.2	19. 12. 56.07		56.22	58.88	2.66	2.67†	.....		
	42	δ 2 L.	R	43.9	46.3	49.0	53.9	56.5	59.1	7.0	9.4	12.0	14.4	1. 3. 59.17		59.34			2.64	1. 2. 59.76		
	43	Polaris	R	46.8	3.1	13.5	23.8	32.5	44.0	53.5	8.0	19.4	28.4	1. 20. 37.14		9.49	13.11	3.62	[- 0.10]	1. 20. 12.12	+ 40.74	
	44	Venus 1 L.	R	18.5	20.9	23.8	29.0	31.9	34.4	42.1	44.9	47.6	50.1	4. 21. 34.35		34.40				4. 21. 37.42		
June 6	45	⊙ 1 L.	R	...	40.3	43.1	48.2	51.0	53.8	1.9	4.7	7.1	...	4. 58. 53.79						5. 0. 5.00		
	46	⊙ 2 L.	R	54.9	57.4	0.1	5.6	8.1	11.0	19.0	21.7	24.2	27.2	5. 1. 10.95						.....		
	47	Pollux	R	38.9	41.6	44.5	50.0	52.7	55.6	4.1	7.0	9.9	12.3	7. 38. 55.69		55.62	58.23	2.61		.....		
	48	δ Leonis	B	18.0	20.7	23.5	28.7	31.3	34.0	42.0	44.4	47.2	49.9	11. 8. 34.00		34.04	36.75	2.71	2.75	11. 8. 36.74	- 2.08	
	49	δ Crateris	B	51.6	54.1	56.8	1.8	4.2	6.9	14.5	17.0	19.6	22.1	11. 14. 6.88		7.36	10.09	2.73		11. 14. 10.06	- 1.70	
	50	Polaris S.P.	B	44.9	58.3	8.7	20.1	32.0	54.0	6.1	16.0	29.1	39.0	13. 19. 42.82		10.90	13.60	2.70		1. 20. 13.59	+ 40.25	
	51	ζ Virginis	B	8.2	10.8	13.3	18.1	20.7	23.1	30.5	33.0	35.5	38.0	13. 29. 23.14		23.44	26.15	2.71		13. 29. 26.13	- 2.60	
	52	ζ Virginis... (E&E)	B	53.6	8.5	23.3	38.1	53.0	7.8	22.5	...	...	...	13. 29. 23.12		23.42	26.15	2.73		.....		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 38, 40, and 52, — 14^m.47 : — 14^m.47 : and — 15^m.01.
 Corrections for passage of Semidiameter, Nos. 42 and 44, — 62^m.23 and + 0^m.40.

4. Observed over wire T with the transit-micrometer set to readings 33^m.600, 34^m.100, 34^m.600, 35^m.100, 36^m.100, 36^m.600, 37^m.100, 37^m.600.
 17. Observed over wire T with the transit-micrometer set to readings 34^m.800, 35^m.000, 35^m.200, 35^m.400, 35^m.800, 36^m.000, 36^m.200, 36^m.400.

7. Cloudy.

18. Observed in dark field with wires illuminated.

27. Observed over wire T with the transit-micrometer set to readings 36^m.600, 36^m.400, 36^m.200, 36^m.000, 35^m.800, 35^m.400, 35^m.200, 35^m.000, 34^m.800, 34^m.600.

42. Faint. Correction to R.A. on true meridian, + 0^m.01.

43. Observed over wire Q with the transit-micrometer set to readings 35^m.450, 35^m.572, 35^m.665, 35^m.790, 35^m.850, 35^m.939, 36^m.059, 36^m.146, 36^m.254, 36^m.346.

50. Observed over wire T with the transit-micrometer set to readings 36^m.100, 36^m.000, 35^m.900, 35^m.800, 35^m.700, 35^m.500, 35^m.400, 35^m.300, 35^m.200, 35^m.100.

43, 44. Very unsteady.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1899

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Azimuth).									
				s	s	s	s	s	s	s	s	s	s		s	h	m	s	s	s	s	h	m	s
June 6	1	η Boötis	B	28.2	30.9	33.6	38.7	41.2	43.9	51.6	54.3	57.1	59.7	13. 49. 43.95	+ 1.37		44.02	46.72	2.70	2.75	13. 49. 46.71	- 2.78		
	2	η Boötis ... (E&E)	B	11.8	27.5	43.1	58.9	14.5	30.4	46.0	...	...	...	13. 49. 43.90	(- 6.16)		43.97	46.72	2.75	[- 0.10]	.....			
	3	ζ Aquilæ	B	22.6	25.1	27.9	32.8	35.3	38.0	45.4	48.0	50.5	53.1	19. 0. 37.89	[+ 9.08]		38.02	40.63	2.61		19. 0. 40.69	- 2.87		
June 7	4	⊙ 1 L	B	45.5	48.0	50.8	56.1	58.8	1.6	9.5	12.1	15.0	17.7	5. 3. 1.54	(- 5.23)	10.28			2.65	5. 4. 12.91				
	5	⊙ 2 L	B	2.9	5.4	8.1	13.5	16.1	18.9	26.9	29.5	32.2	35.0	5. 5. 18.88										
	6	Venus 2 L	WB	39.9	42.4	45.1	50.4	53.2	55.7	4.0	6.5	9.2	12.0	4. 31. 55.87	(- 5.22) [+ 8.88]			55.96		2.52	4. 31. 58.06			
June 8	7	⊙ 1 L	WB	53.9	56.3	58.9	4.0	6.9	...	18.0	...	...	...	5. 7. 9.74			9.81				5. 8. 20.94			
	8	Sirius	WB	15.8	18.1	20.8	...	...	...	...	...	...	...	6. 40. 31.11			31.64				6. 40. 34.13	- 0.26		
	9	α Hydræ	WB	11.9	14.1	16.9	21.8	24.2	26.8	34.1	36.6	39.1	41.6	9. 22. 26.73			27.15	29.64	2.49		9. 22. 29.62	- 1.07		
	10	σ Virginis	WB	...	...	...	16.0	18.5	21.0	28.4	30.9	33.4	36.0	13. 12. 21.03			21.29				13. 12. 23.74	- 2.54		
	11	Polaris S.P.	WB	28.8	36.2	42.9	48.8	53.4	0.9	5.7	11.6	19.1	31.9	13. 19. 47.68			13.16	15.63	2.47		.....			
	12	ζ Virginis	WB	8.5	11.0	13.5	18.2	20.8	23.4	30.8	33.1	35.8	38.1	13. 29. 23.34			23.67	26.14	2.47		13. 29. 26.12	- 2.59		
	13	τ Boötis	WB	...	...	...	14.0	16.6	19.4	27.0	29.7	32.1	34.8	13. 42. 19.27			19.40	21.89	2.49		13. 42. 21.85	- 2.72		
	14	η Boötis	WB	28.3	31.1	33.9	38.9	41.5	44.1	52.0	54.5	57.1	59.8	13. 49. 44.15			44.26	46.71	2.45		13. 49. 46.71	- 2.77		
	15	Bradley 282 S.P. ..	WB	48.0	56.7	5.5	...	40.2	...	...	14.6	24.0	32.5	14. 3. 40.14			42.24				2. 3. 44.69	+ 1.31		
	16	Arcturus	WB	39.6	42.1	44.8	50.0	52.6	55.3	3.1	5.8	8.3	11.0	14. 10. 55.29			55.40	57.84	2.44		14. 10. 57.85	- 2.81		
	17	Bradley 332 S.P. ..	WB	47.5	53.9	0.1	6.2	25.4	31.6	37.4	50.2	57.0	3.1	14. 20. 25.18			26.70				2. 20. 29.15	+ 0.45		
	18	ρ Boötis	WB	4.2	6.8	10.0	15.6	18.4	21.4	30.0	32.9	36.0	38.6	14. 27. 21.42			21.39	23.82	2.43		14. 27. 23.84	- 2.97		
	19	μ Virginis	WB	...	22.2	24.8	29.9	32.1	34.9	42.2	44.6	47.2	...	14. 37. 34.76			35.15				14. 37. 37.60	- 2.93		
	20	Saturn 1 L.	WB	52.1	54.7	57.2	2.3	4.8	7.6	15.4	17.8	20.2	22.9	14. 47. 7.52			8.63				14. 47. 11.08			
	21	Saturn 2 L.	WB	53.4	56.0	58.7	3.5	6.1	8.8	16.3	18.9	21.5	24.1	14. 47. 8.75										
	22	Groombridge 2283 ..	WB	20.1	25.8	32.1	37.5	46.1	52.6	59.0	5.9	11.3	20.2	15. 11. 17.79				4.74			15. 11. 7.18	- 23.35		
	23	ζ Libræ	WB	8.1	10.7	13.4	18.4	20.9	23.5	31.4	34.0	36.4	39.0	15. 22. 23.61			24.13	26.58	2.45		15. 22. 26.57	- 3.20		
	24	Groombr. 700 S.P. ..	WB	34.1	45.5	57.5	8.8	43.6	55.5	7.1	30.4	42.0	53.7	15. 30. 43.71			46.48				3. 30. 48.92	+ 2.22		
	25	18 Ursæ Minoris..	WB	0.0	14.2	28.9	58.5	13.1	28.0	11.8	26.7	41.1	55.2	15. 45. 27.89			24.91				15. 45. 27.35	- 6.91		
	26	W. B. XV. 910 ...	WB	9.5	12.0	14.5	19.6	22.1	24.8	32.1	34.9	37.4	40.0	15. 50. 24.71			25.20				15. 50. 27.64	- 3.27		
	27	20 Ursæ Minoris..	WB	14.5	24.1	34.1	53.8	3.6	12.6	42.5	52.0	2.5	12.0	16. 15. 13.27			11.39				16. 15. 13.83	- 5.10		
	28	α ¹ Herculis	WB	39.5	42.0	44.5	49.6	52.1	54.8	2.4	4.9	7.4	10.0	17. 9. 54.74			54.91	57.35	2.44		17. 9. 57.34	- 3.09		
	29	θ Ophiuchi	WB	21.8	24.1	27.0	32.5	35.3	38.0	46.0	48.6	51.5	54.0	17. 15. 37.91			38.55	40.93	2.38		17. 15. 40.98	- 3.69		
June 10	30	Polaris	AC	29.0	36.1	44.7	53.2	27.0	39.5	45.8	55.8	18.0	26.8	1. 20. 41.91	(- 4.84)		16.64	18.24	1.60	2.18	1. 20. 18.81	+ 35.61		
	31	Venus 1 L	AC	18.0	20.6	...	...	...	34.0	...	...	47.4	50.0	4. 47. 34.02	[+ 9.53]		34.52			[- 0.11]	4. 47. 36.68			
	32	Venus 2 L	AC	...	...	24.1	29.4	32.0	...	...	42.8	45.3	...	4. 47. 34.75										
June 11	33	⊙ 1 L	AC	19.5	22.1	24.9	30.4	33.0	35.8	43.8	46.4	49.1	51.6	5. 19. 35.69			44.59				5. 20. 46.75			
	34	⊙ 2 L	AC	37.1	39.9	42.5	47.9	50.5	53.1	1.4	4.0	6.5	9.2	5. 21. 53.24										
	35	Polaris S.P.	AC	37.0	43.4	44.9	1.1	59.8	6.9	...	...	...	...	13. 19. 51.33				17.19	18.74	1.55		1. 20. 19.31	+ 35.11	
	36	η Boötis	AC	28.8	31.2	34.0	39.1	41.8	44.3	52.2	54.9	57.4	0.0	13. 49. 44.40			44.57	46.69	2.12		.....			
	37	α Libræ	AC	52.3	54.9	57.6	2.5	5.1	7.8	15.5	18.0	20.5	23.0	14. 45. 7.75			8.32	10.42	2.10		.....			
	38	Saturn 1 L	AC	14.8	17.6	20.1	25.1	27.7	30.1	37.9	40.5	42.9	45.5	14. 46. 30.24			31.43				14. 46. 33.54			
	39	Saturn 2 L	AC	16.1	18.9	21.5	26.4	29.0	31.5	39.3	41.5	44.2	46.8	14. 46. 31.54										
	40	β Boötis	AC	43.1	46.5	49.7	56.1	59.5	...	...	...	...	...	14. 58. 2.73				2.58			14. 58. 4.69	- 3.12		
	41	η Coronæ	AC	38.0	41.1	44.0	49.6	52.4	55.3	4.0	6.8	9.8	12.5	15. 18. 55.38			55.39				15. 18. 57.50	- 3.05		
	42	α Coronæ	AC	1.3	4.0	6.9	12.1	15.1	18.0	26.2	28.4	31.9	34.4	15. 30. 17.91			17.97	20.07	2.10		.....			
	43	51 Libræ	AC	24.5	27.1	29.5	34.5	37.0	39.5	47.0	49.6	52.0	54.5	15. 58. 39.54			40.05				15. 58. 42.16	- 3.27		
	44	Radcliffe 3513 ...	AC	34.2	38.9	43.8	52.9	57.8	2.3	16.6	21.1	26.0	30.3	16. 7. 2.44			1.85				16. 7. 3.96	- 3.52		
	45	Groombridge 2332 ..	AC	3.5	8.1	13.6	23.1	28.0	33.1	48.0	52.7	58.0	2.8	16. 15. 33.14			32.48				16. 15. 34.59	- 3.57		
	46	Lalande F. 659-60 S.P.	AC	...	...	19.1	34.0	18.5	34.1	50.0	20.1	...	...	16. 18. 19.15			22.83				4. 18. 24.94	+ 2.81		
	47	Lalande F. 2811 ...	AC	36.2	56.1	16.9	55.6	16.1	36.1	35.1	55.4	15.1	35.4	16. 24. 35.99			31.84				16. 24. 33.94	- 7.97		
	48	Carrington 643 S.P. ...	AC	...	...	17.1	42.9	4.0	30.0	57.1	48.9	...	...	16. 32. 3.07			9.35				4. 32. 11.45	+ 6.05		
	49	k Herculis	R	1.8	4.2	6.7	11.8	14.1	16.7	...	...	...	...	16. 45. 16.70			17.47				16. 45. 19.57	- 3.17		
	50	ε Herculis	AC	2.1	5.1	8.0	13.8	16.5	19.6	28.1	31.0	34.0	36.9	16. 56. 19.54			19.55	21.64	2.09		.....			

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 2, — 15°.01.
Corrections for passage of Semidiameter, Nos. 6 and 7, — 0°.40 and + 68°.64.

4, 5, 7, 8, 9, 15. Cloudy.

11. Observed over wire R with the transit-micrometer set to readings 36°.214, 36°.125, 36°.078, 36°.018, 35°.976, 35°.506, 35°.869, 35°.814, 35°.728, 35°.626.

20, 21. Very faint; cloudy.

22. Observed over wire R with the transit-micrometer set to readings 35°.654, 35°.737, 35°.850, 35°.921, 36°.103, 36°.194, 36°.294, 36°.400, 36°.493, 36°.634.

28. Faint; cloudy.

30. Observed over wire X with the transit-micrometer set to readings 35°.330, 35°.385, 35°.447, 35°.536, 35°.857, 35°.952, 36°.005, 36°.100, 36°.275, 36°.374.

35. Observed over wire Q with the transit-micrometer set to readings 36°.541, 36°.504, 36°.422, 36°.329, 35°.805, 36°.755.

48. Observed in dark field with wires illuminated.

1898
JUN 11

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate]	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.										h	m	s	"	"	"	"	h	m	s	"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 16, 18, 23, and 26, —20°20: —20°23: —20°86: and —21°00.

- Observed over wires M, N, O, P, Q and T.
- Observed over wire X with the transit-micrometer set to readings 37°940, 38°079, 38°220, 38°360, 38°525.
- Observed in dark field with wires illuminated.
- Observed over wire X with the transit-micrometer set to readings 36°078, 35°950, 35°840, 35°745, 35°641, 35°538, 35°433, 35°328, 35°223, 35°118, 35°013, 34°908, 34°803, 34°698, 34°593, 34°488, 34°383, 34°278, 34°173, 34°068, 33°963, 33°858, 33°753, 33°648, 33°543, 33°438, 33°333, 33°228, 33°123, 33°018, 32°913, 32°808, 32°703, 32°598, 32°493, 32°388, 32°283, 32°178, 32°073, 31°968, 31°863, 31°758, 31°653, 31°548, 31°443, 31°338, 31°233, 31°128, 31°023, 30°918, 30°813, 30°708, 30°603, 30°498, 30°393, 30°288, 30°183, 30°078, 29°973, 29°868, 29°763, 29°658, 29°553, 29°448, 29°343, 29°238, 29°133, 29°028, 28°923, 28°818, 28°713, 28°608, 28°503, 28°398, 28°293, 28°188, 28°083, 27°978, 27°873, 27°768, 27°663, 27°558, 27°453, 27°348, 27°243, 27°138, 27°033, 26°928, 26°823, 26°718, 26°613, 26°508, 26°403, 26°298, 26°193, 26°088, 25°983, 25°878, 25°773, 25°668, 25°563, 25°458, 25°353, 25°248, 25°143, 25°038, 24°933, 24°828, 24°723, 24°618, 24°513, 24°408, 24°303, 24°198, 24°093, 23°988, 23°883, 23°778, 23°673, 23°568, 23°463, 23°358, 23°253, 23°148, 23°043, 22°938, 22°833, 22°728, 22°623, 22°518, 22°413, 22°308, 22°203, 22°098, 21°993, 21°888, 21°783, 21°678, 21°573, 21°468, 21°363, 21°258, 21°153, 21°048, 20°943, 20°838, 20°733, 20°628, 20°523, 20°418, 20°313, 20°208, 20°103, 20°000, 19°495, 19°390, 19°285, 19°180, 19°075, 18°970, 18°865, 18°760, 18°655, 18°550, 18°445, 18°340, 18°235, 18°130, 18°025, 17°920, 17°815, 17°710, 17°605, 17°500, 17°395, 17°290, 17°185, 17°080, 16°975, 16°870, 16°765, 16°660, 16°555, 16°450, 16°345, 16°240, 16°135, 16°030, 15°925, 15°820, 15°715, 15°610, 15°505, 15°

1898 GUANO 58A 1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.
															Collimation.									
															(Level).									
															[Azimuth].									
I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h	m	s	"	s	s	s	h	m	s	s				
June 13	1	Sirius	B	...	...	...	...	...	44.8	47.2	2.9	18.1	6. 40. 31.90	+ 1.37	32.52			1.94	6. 40. 34.43	- 0.28				
	2	Procyon.....	B	34.9	37.6	40.1	45.1	47.6	50.1	57.6	0.1	2.5	5.0	7. 33. 50.08	(- 5.76)	50.40	52.36	1.96	[- 0.11]	7. 33. 52.31	- 0.81			
	3	Pollux	B	39.6	42.2	45.1	50.6	53.5	56.3	4.9	7.4	10.2	13.2	7. 38. 56.33	[+ 10.52]	56.33	58.14	1.91		7. 38. 58.23	- 1.10			
	4	β Ursæ Majoris...	B	8.3	12.8	17.4	26.1	30.9	35.5	48.9	53.4	57.8	2.3	10. 55. 35.38		34.72			10. 55. 36.61	- 2.57				
	5	α Ursæ Majoris...	B	48.5	54.0	59.3	9.9	15.1	20.5	36.5	41.8	47.0	52.5	10. 57. 20.56		19.65			10. 57. 21.54	- 2.75				
	6	ψ Ursæ Majoris...	B	28.9	32.2	35.9	42.6	46.2	49.8	0.2	3.8	7.3	10.6	11. 3. 49.78		49.47			11. 3. 51.36	- 2.34				
	7	δ Leonis	B	18.8	21.4	24.1	29.5	32.0	34.8	...	...	...	...	11. 8. 34.72		34.84	36.68	1.84		11. 8. 36.73	- 2.01			
	8	ν Ursæ Majoris...	B	34.2	37.2	40.2	46.1	49.1	52.0	1.0	4.0	6.9	9.9	11. 12. 52.09		52.01			11. 12. 53.90	- 2.19				
	9	ε Leonis	B	14.9	17.4	20.0	24.9	27.5	30.0	37.6	40.0	42.5	45.1	11. 18. 30.01		30.26			11. 18. 32.15	- 1.95				
	10	λ Draconis.....	B	33.8	40.8	48.0	2.1	9.8	17.0	38.4	45.8	52.9	0.0	11. 25. 16.93		15.48			11. 25. 17.37	- 3.40				
	11	ν Leonis	B	22.1	24.6	27.1	32.1	34.5	37.1	44.5	46.9	49.4	51.9	11. 31. 37.04		37.44	39.27	1.83		11. 31. 39.33	- 1.90			
	12	γ Cephei S.P. ...	B	...	3.8	14.8	26.0	59.1	10.0	20.7	42.9	54.0	...	11. 35. 58.80		1.91			23. 36. 3.80	+ 0.58				
	13	χ Ursæ Majoris...	B	12.4	16.0	20.0	27.4	30.9	34.7	45.9	49.4	53.2	56.9	11. 40. 34.72		34.33			11. 40. 36.22	- 2.59				
	14	β Leonis	B	30.0	32.4	35.1	40.1	42.7	45.4	53.0	55.5	58.1	0.7	11. 43. 45.32		45.51	47.35	1.84		11. 43. 47.40	- 2.11			
	15	β Virginis	B	1.6	4.0	6.5	11.5	14.0	16.4	23.9	26.2	28.7	31.2	11. 45. 16.42		16.78	18.67	1.89		11. 45. 18.67	- 2.03			
	16	γ Ursæ Majoris...	B	57.9	1.9	6.2	14.7	19.1	23.1	36.0	40.0	44.2	48.5	11. 48. 23.20		22.63			11. 48. 24.52	- 2.79				
	17	Spica	B	27.8	30.1	32.9	37.9	40.4	42.9	50.2	52.9	55.4	58.0	13. 19. 42.87		43.40	45.27	1.87		13. 19. 45.28	- 2.50			
	18	Polaris S.P.	B	19.4	30.5	41.2	53.0	4.0	29.8	40.9	50.9	3.7	12.6	13. 19. 46.60		16.56	20.62	4.06		1. 20. 18.44	+ 33.23			
	19	h Virginis	B	14.4	16.9	19.5	24.5	27.0	29.6	37.2	39.5	42.0	44.5	13. 27. 29.53		30.05			13. 27. 31.93	- 2.55				
	20	ζ Virginis	B	9.0	11.5	14.0	18.9	21.4	23.9	31.2	33.9	36.1	38.6	13. 29. 23.87		24.27	26.11	1.84		13. 29. 26.15	- 2.56			
	21	50 Cassiopeiæ S.P.R.	B	42.0	50.1	58.0	5.9	...	...	...	...	...	...	13. 54. 29.65		30.55			1. 54. 32.43	+ 0.66				
	22	50 Cassiopeiæ S.P....	B	...	...	...	...	28.1	36.1	44.1	59.9	8.0	16.0	13. 54. 28.14		30.42			1. 54. 32.30	+ 0.66				
	23	α Draconis.....	B	2.2	8.0	14.0	25.7	31.5	37.4	54.6	0.2	6.3	12.1	14. 1. 37.26		36.20			14. 1. 38.08	- 3.81				
	24	3 Ursæ Minoris.R.	B	11.9	21.5	31.4	50.1	0.0	9.8	...	...	...	...	14. 6. 9.59		10.25			14. 6. 12.13	- 5.08				
	25	3 Ursæ Minoris....	B	...	...	...	...	...	41.2	50.4	0.3	9.7	14. 6. 12.42		10.28			14. 6. 12.16	- 5.08					
	26	φ Virginis	B	6.1	20.9	35.9	38.2	40.8	...	...	...	...	...	14. 22. 50.61		51.49			14. 22. 53.36	- 2.83				
	27	φ Virginis	B	...	...	...	...	...	0.9	3.5	6.0	20.8	35.7	14. 22. 51.20		51.62			14. 22. 53.49	- 2.83				
	28	Groomb. 2140.R.	B	50.5	2.0	13.5	34.9	46.0	56.7	...	...	...	...	14. 31. 56.93		57.56			14. 31. 59.43	- 5.56				
	29	Groomb. 2140.....	B	...	...	...	...	...	...	33.4	44.1	55.9	6.1	14. 32. 0.63		58.12			14. 31. 59.99	- 5.56				
	30	ε² Boötis.....	AC	11.1	13.8	16.5	22.1	24.9	27.8	36.1	38.9	41.7	44.5	14. 40. 27.77		27.79	29.61	1.82	1.95†	.....				
	31	Lalande F. 454 S.P.	B	0.9	10.0	19.9	28.9	57.2	6.7	...	...	...	...	14. 44. 57.06		59.74			1.94	2. 45. 1.61	+ 1.19			
	32	Saturn 1 L.	B	51.5	54.0	56.2	1.5	4.0	6.5	14.2	16.7	19.3	21.9	14. 46. 6.60						14. 46. 9.66				
	33	Saturn 2 L.	B	52.6	55.1	57.8	2.6	5.2	7.8	15.5	18.0	20.4	23.1	14. 46. 7.83										
	34	ε² Libræ	AC	52.8	55.4	58.0	2.9	5.4	7.9	15.4	18.0	20.5	22.9	14. 51. 7.94		8.48	10.42	1.94	1.95†	.....				
	35	ω Boötis.....	R.	44.1	0.3	17.0	19.6	22.2	...	...	...	...	...	14. 57. 33.24		34.07			1.94	14. 57. 35.94	- 2.97			
	36	ω Boötis.....	B	...	...	...	...	...	45.1	47.9	50.5	7.0	23.5	14. 57. 34.25		34.30				14. 57. 36.17	- 2.97			
	37	c Boötis	B	28.6	31.4	34.1	39.6	42.2	45.1	...	...	...	...	15. 2. 45.03		45.08				15. 2. 46.95	- 2.99			
	38	B.D.+25° No. 2874	B	...	...	...	...	...	53.1	56.0	...	6.9	9.8	15. 0. 15. 2. 58.72		58.77				15. 3. 0.64	- 2.98			
	39	Groomb. 614 S.P.	B	...	...	...	...	...	33.5	46.9	29.5	44.4	58.1	15. 7. 29.74		33.73				3. 7. 35.60	+ 2.77			
	40	Lalande F. (2) 194	B	35.4	50.1	5.1	34.1	49.1	4.2	49.0	3.6	18.2	33.3	15. 11. 4.35		0.83				15. 11. 2.70	- 6.80			
	41	Uranus 1 L.	B	15.0	17.6	...	...	...	30.5	...	...	...	43.6	15. 15. 30.58										
	42	Uranus 2 L.	B	...	...	...	...	...	20.6	25.8	28.2	...	38.8	15. 15. 30.93		31.40				15. 15. 33.27				
	43	ζ¹ Libræ	B	8.6	11.1	13.8	18.9	21.5	24.0	31.7	34.2	36.9	39.5	15. 22. 24.05		24.67	26.59	1.92		15. 22. 26.54	- 3.21			
	44	ζ³ Libræ	B	33.6	36.1	38.6	43.9	46.2	49.0	56.5	59.2	1.8	4.3	15. 24. 48.95		49.57				15. 24. 51.44	- 3.22			
	45	ζ⁴ Libræ	B	47.9	50.4	53.1	58.0	0.7	3.4	11.1	13.6	16.1	18.8	15. 27. 3.34		3.96				15. 27. 5.83	- 3.23			
	46	Carrington 504 S.P..	B	9.3	20.0	30.4	51.4	2.6	12.9	...	...	...	...	15. 32. 41.10		46.83				3. 32. 48.70	+ 4.76			
	47	W. B. XV. 645 ...	B	54.1	56.5	59.2	4.1	6.7	9.3	17.0	19.4	22.0	24.5	15. 36. 9.30		9.85				15. 36. 11.72	- 3.22			
	48	α Serpentis	B	54.6	57.1	59.7	4.5	7.1	9.6	17.0	19.5	22.0	24.4	15. 39. 9.57		9.87	11.74	1.87		15. 39. 11.74	- 3.07			
	49	β Serpentis	B	8.8	11.2	13.9	19.0	21.6	24.1	31.9	34.2	36.9	39.6	15. 41. 24.15		24.33				15. 41. 26.20	- 3.05			
	50	κ Serpentis	B	48.9	51.5	54.0	59.1	1.9	4.4	12.2	14.9	17.5	20.0	15. 44. 4.47		4.63				15. 44. 6.50	- 3.05			
	51	Piazzi XV. 192 ...	B	29.0	31.7	34.4	39.9	42.5	45.3	53.3	56.0	58.7	1.4	15. 47. 45.25		45.98				15. 47. 47.85	- 3.44			
	52	Piazzi III. 177 S.P.	B	...	...	...	...	...	...	22.1	32.9	38.4	43.9	15. 48. 11.39		12.93				3. 48. 14.80	- 0.13			
	53	ρ Scorpil	B	11.6	14.2	17.5	23.0	25.8	28.6	37.0	39.8	42.6	45.7	15. 50. 28.61		29.43				15. 50. 31.30	- 3.57			
	54	Carrington 2405..	B	51.5	...	...	59.1	17.4	34.6	...	...	...	...	15. 55. 34.61		30.46				15. 55. 32.33	- 7.32			

1. Observed over wires W, X, Y and Z.
 18. Observed over wire T with the transit-micrometer set to readings 36" 900, 36" 800, 36" 700, 36" 600, 36" 500, 34" 700, 34" 600, 34" 500, 34" 400, 34" 300.
 26, 35. Observed over wires M, N, O, P and Q.
 37. Observed over wires O, P, Q, R, S, T and Z.
 46. Observed over wire T with the transit-micrometer set to readings 37" 100, 36" 600, 36" 100, 35" 100, 34" 600, 34" 100.
 54. Observed in partially illuminated field.
 1, 2, 3. Very unsteady and diffused.
 27, 36. Observed over wires V, W, X, Y and Z.
 38. Observed in dark field with wires illuminated.

1898 JUNE 13

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 2 Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Red- uction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).						[Azimuth].			
															h	m						s	"	
June 13	1	Carrington 567 S.P...	B	...	...	...	...	28.1	45.0	1.5	34.9	51.2	8.9	15.56.27.81	+ 1.37		32.47			1.94	3.56.34.34	+ 3.32		
	2	Piazz XV. 265 ...	B	31.6	34.3	37.1	42.5	45.4	48.0	56.3	59.1	2.0	4.6	16.1.48.12	(- 5.76)		48.89			[- 0.11]	16.1.50.76	- 3.55		
	3	Piazz XVI. 10 ...	B	...	...	23.9	29.2	31.9	34.4	42.4	44.9	...	...	16.7.34.48	+ 10.52		35.17				16.7.37.04	- 3.47		
	4	B. D. - 16° No. 4251	B	...	...	58.3	3.4	6.0	8.6	16.2	18.9	...	...	16.8.8.60			9.22				16.8.11.09	- 3.39		
	5	W. B. XVI. 149...	B	...	...	28.4	31.1	36.2	38.6	41.3	48.9	51.4	54.0	16.10.41.26			41.83				16.10.43.70	- 3.35		
	6	Piazz XVI. 35 ...	B	40.6	43.4	46.5	52.1	55.1	...	6.4	9.3	12.1	15.0	16.12.57.86			58.71				16.13.0.58	- 3.72		
	7	Piazz XVI. 36 ...	B	41.7	44.5	47.5	53.2	56.1	...	7.6	10.2	13.2	16.1	16.12.58.93			59.78				16.13.1.65	- 3.72		
	8	Piazz XVI. 72 ...	B	...	...	8.2	11.3	16.5	19.3	22.0	30.1	32.5	35.2	16.19.21.92			22.65				16.19.24.52	- 3.56		
	9	Groombridge 2345	B	55.5	0.8	6.0	16.5	21.9	26.9	42.8	48.0	53.3	58.5	16.22.27.07			26.18				16.22.28.04	- 3.52		
	10	*(N.P.D. 104° 48')	B	30.9	33.4	36.0	41.1	43.6	46.1	53.8	56.2	58.9	1.6	16.27.46.18			46.77				16.27.48.63	- 3.43		
	11	Carrington 643 S.P...	B	21.5	35.5	48.9	15.5	28.2	41.7	...	...	...	...	16.32.1.88			9.13				4.32.10.99	+ 5.82		
	12	Carrington 2502...	B	21.4	30.0	40.0	57.7	6.2	15.4	...	...	...	...	16.36.48.45			44.10				16.36.45.96	- 7.11		
	13	Groomb. 861 S.P.	B	...	...	14.9	24.6	54.1	4.2	14.0	33.7	...	...	16.38.54.15			56.98				16.38.58.84	+ 0.97		
	14	Groombridge 2382	B	...	...	...	48.4	0.4	12.1	47.9	...	...	...	16.40.12.31			9.59				16.40.11.45	- 5.35		
	15	κ Ophiuchi	B	30.6	33.1	35.7	40.6	43.1	45.7	53.1	55.6	58.1	0.6	16.52.45.64			45.91	47.83	1.92		16.52.47.77	- 3.16		
	16	26 Ophiuchi	B	32.0	34.6	37.5	42.8	45.6	48.2	56.4	59.1	2.0	4.5	16.53.48.30			49.05				16.53.50.91	- 3.71		
	17	Piazz XVI. 268...	B	42.0	45.1	48.0	54.0	57.1	0.0	8.9	11.9	14.9	18.0	16.58.0.02			0.93				16.58.2.79	- 4.00		
	18	Groomb. 927 S.P.	B	17.1	21.2	25.4	29.7	42.0	46.2	50.4	58.6	2.9	7.1	17.1.42.02			43.18				5.1.45.04	- 0.59		
	19	Lalande 31152 ...	B	22.9	25.7	28.4	34.0	36.9	39.5	47.9	50.5	53.5	56.2	17.3.39.58			40.37				17.3.42.23	- 3.81		
	20	63 Herculis	B	29.6	32.2	...	40.5	43.1	...	54.0	...	59.5	2.1	17.6.45.89			45.96				17.6.47.82	- 3.09		
	21	Piazz XVII. 15...	B	...	...	46.1	48.9	...	...	...	...	10.5	13.2	17.6.59.71			59.78				17.7.1.64	- 3.09		
	22	*(N.P.D. 65° 3')	B	30.1	32.9	35.7	...	...	...	...	...	57.3	0.0	17.10.46.51			46.57				17.10.48.43	- 3.08		
	23	δ Herculis	B	...	...	...	41.0	43.9	46.8	54.8	...	...	...	17.10.46.66			46.72				17.10.48.58	- 3.08		
	24	θ Ophiuchi	B	22.1	24.7	27.5	32.9	35.6	38.3	46.4	49.1	52.0	54.8	17.15.38.37			39.12	40.99	1.87		17.15.40.98	- 3.75		
	25	Groomb. 968 S.P.	B	55.4	59.5	3.4	7.6	20.0	24.1	28.1	36.3	40.2	44.6	17.22.19.88			21.02				5.22.22.88	- 0.66		
	26	Groomb. 944 S.P.	B	56.1	8.0	18.1	30.9	42.0	53.5	...	...	...	...	17.28.24.77			32.68				5.28.34.54	+ 5.13		
	27	ι Herculis	B	11.8	15.2	18.9	26.1	29.6	33.1	43.8	47.3	50.9	54.4	17.36.33.15			32.82				17.36.34.68	- 3.08		
	28	β Ophiuchi	B	...	...	8.5	11.1	16.0	18.5	21.1	28.5	30.9	33.6	17.38.21.05			21.38	23.26	1.88		17.38.23.24	- 3.22		
	29	μ Herculis	B	7.7	10.2	13.1	18.8	21.6	24.3	32.7	35.5	38.2	41.1	17.42.24.35			24.37	26.27	1.90		17.42.26.23	- 3.03		
	30	μ Herculis (E&E)	B	55.6	12.6	29.3	46.0	2.8	19.5	36.2	...	...	...	17.42.24.38			24.40	26.27	1.87		.....	...		
	31	Piazz V. 253 S.P.	B	49.9	56.4	2.5	8.9	27.8	34.0	40.1	52.9	59.1	5.5	17.51.27.65			29.45				5.51.31.31	- 0.38		
	32	4 Sagittarii	B	11.7	14.1	16.9	22.2	25.1	27.7	...	...	...	...	17.53.27.72			28.45				17.53.30.31	- 3.77		
	33	ζ Serpentis	B	...	...	...	55.4	57.9	0.2	7.7	10.1	12.6	15.1	17.55.0.30			0.74				17.55.2.60	- 3.34		
	34	71 Ophiuchi	B	6.0	8.3	10.9	16.0	18.3	20.9	28.2	30.9	33.5	36.0	18.2.20.92			21.20				18.2.23.06	- 3.16		
	35	δ Ursæ Minoris...	B	33.5	40.2	50.4	58.1	7.2	23.0	31.2	39.9	48.6	57.4	18.6.10.22			59.63				18.6.1.49	- 10.40		
	36	Groomb. 1004 S.P.	B	11.1	21.5	29.3	37.8	47.0	5.1	13.9	22.7	31.4	39.2	18.5.55.90			7.62				6.6.9.48	+ 6.89		
	37	η Serpentis	B	41.9	44.1	46.8	51.6	54.1	56.6	4.0	6.5	8.9	11.4	18.15.56.61			57.04	58.92	1.88		18.15.58.90	- 3.29		
	38	Groombridge 2549	B	7.7	11.6	15.6	23.5	27.5	31.5	43.4	47.1	51.1	55.1	18.17.31.45			30.98				18.17.32.84	- 2.98		
	39	φ Draconis.....	B	31.9	39.4	47.2	2.5	10.1	18.9	41.0	48.6	56.3	4.1	18.22.17.98			16.38				18.22.18.24	- 3.48		
	40	B. D. + 23° No. 3342	B	...	...	...	...	...	36.4	39.3	47.1	49.8	52.4	18.23.39.07			39.14				18.23.41.00	- 2.99		
	41	Groombridge 2588	B	8.0	11.1	14.3	20.9	24.1	...	...	...	43.6	46.9	18.27.27.40			27.20				18.27.29.06	- 2.91		
	42	α Lyræ	B	7.2	10.3	13.6	19.9	23.0	26.1	35.7	38.8	42.0	45.2	18.33.26.21			26.04	27.92	1.88		18.33.27.89	- 2.91		
	43	α Lyræ .....(E&E)	B	50.9	9.9	28.9	47.8	6.7	25.8	44.9	...	...	...	18.33.26.23			26.06	27.92	1.86		.....	...		
June 14	44	⊙ 1 L.	AC	47.1	49.8	52.6	58.0	0.8	3.3	11.5	14.0	16.6	19.5	5.32.3.35						1.84	5.33.14.15			
	45	⊙ 2 L.	AC	4.9	7.6	10.4	16.0	18.5	21.1	29.1	31.9	34.6	37.1	5.34.21.15							.....	.....		
	46	κ Ophiuchi	CD	30.9	33.3	36.0	40.9	43.5	46.0	53.5	55.8	58.2	0.8	16.52.45.91	+ 11.65		46.23	47.83	1.60		1.731	.....		
	47	ε Herculis	CD	2.6	5.3	8.2	14.1	17.1	20.0	28.6	31.5	34.3	37.1	16.56.19.91			19.90	21.65	1.75		[- 0.07]	.....		
	48	η Ophiuchi	B	10.7	13.1	15.8	20.8	23.4	26.0	33.6	36.1	38.8	41.3	17.4.25.99			26.66	28.23	1.57		1.69	.....		
	49	η Ophiuchi (E&E)	B	1.6	17.0	32.5	48.0	3.3	18.6	34.1	...	...	...	17.4.25.88			26.55	28.23	1.68		.....	.....		
	50	α ¹ Herculis	B	40.1	42.6	45.1	50.2	52.9	55.4	3.1	5.8	8.1	10.7	17.9.55.42			55.67	57.40	1.73		.....	.....		
	51	α ¹ Herculis (E&E)	B	31.5	46.9	2.1	17.5	32.9	48.1	3.5	...	...	...	17.9.55.50			55.75	57.40	1.65		.....	.....		
	52	θ Ophiuchi	B	22.0	24.9	27.8	33.0	35.9	38.6	46.9	49.4	52.1	54.8	17.15.38.57			39.40	41.00	1.60		.....	.....		
	53	β Ophiuchi	HF	6.2	8.9	11.3	16.1	18.8	21.3	28.6	31.1	33.6	36.1	17.38.21.22			21.60	23.27	1.67		1.76	.....		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 30, 43, 49, and 51, —21° 65' : —21° 64' : —22° 02' : and —22° 02'.

1, 6, 17. Observed in dark field with wires illuminated.

11. Observed over wire T with the transit-micrometer set to readings 37° 100, 36° 600, 36° 100, 35° 100, 34° 600, 34° 100.

12. Observed over wire T with the transit-micrometer set to readings 34° 100, 34° 600, 35° 100, 36° 600, 37° 100.

19. Observed in partially illuminated field.

26. Observed over wire T with the transit-micrometer set to readings 36° 600, 36° 200, 35° 800, 35° 400, 35° 000, 34° 600.

35. Observed over wire U with the transit-micrometer set to readings 34° 600, 34° 800, 35° 000, 35° 200, 35° 400, 35° 600, 36° 000, 36° 200, 36° 400, 36° 600.

36. Observed over wire T with the transit-micrometer set to readings 36° 600, 36° 400, 36° 200, 36° 000, 35° 800, 35° 600, 35° 400, 35° 200, 35° 000, 34° 800, 34° 600.

25, 27, 28, 40, 41. Very faint; cloudy.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898G04MM.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire. h m s	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation. h m s	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s			
June 14	1	μ Herculis.....	HF	7.9	10.5	13.4	18.6	21.5	24.6	32.9	35.5	38.4	41.2	17. 42. 24.48	+ 1.37		24.53	26.28	1.75	1.76 [- 0.07 ]	.....	
	2	δ Ursæ Minoris...	B	28.5	37.4	45.4	54.2	2.0	19.4	27.5	36.1	44.0	52.5	18. 6. 10.70	(- 5.76)		59.39			1.69	18. 6. 1.03	- 10.36
	3	Polaris.....	R	52.0	4.1	14.6	25.5	35.9	46.9	57.8	8.4	20.5	29.8	1. 20. 53.07	[+ 11.65]		21.63	21.93	0.30	1.62	1. 20. 23.25	+ 31.92
	4	Venus 1 L.....	R	21.5	24.3	...	...	...	37.9	...	...	51.1	53.9	5. 8. 37.76	+ 0.89					[- 0.01]	5. 8. 39.38	
	5	Venus 2 L.....	R	...	...	27.9	32.9	35.8	...	46.5	49.1	...	...	5. 8. 38.47	(- 6.75)		38.15					
June 15	6	$\odot$ 1 L.....	R	56.8	59.6	2.0	7.3	10.1	13.0	20.8	23.8	26.4	28.9	5. 36. 12.90								
	7	$\odot$ 2 L.....	R	14.2	17.1	20.0	25.1	28.1	30.9	39.0	41.6	44.1	46.8	5. 38. 30.71								
	8	$\odot$ 1 L.....	R	8.1	10.8	13.6	18.8	21.4	24.0	32.0	34.8	37.6	40.0	9. 22. 24.13								
	9	Polaris S.P.	R	26.9	39.4	51.4	5.1	18.2	34.9	47.7	4.5	18.5	32.1	13. 19. 46.15	[+ 10.96]		20.76	22.36	1.60		9. 23. 34.77	
	10	ζ Virginis.....	R	9.5	12.0	14.2	19.2	21.9	24.1	31.6	34.0	36.6	39.0	13. 29. 24.33	[+ 10.22]		24.54	26.10	1.56		1. 20. 22.37	+ 31.49
	11	κ Virginis.....	AC	...	...	...	16.3	18.9	21.4	28.9	31.3	33.9	...	14. 7. 21.39			21.83	23.55	1.72	1.76†	.....	
	12	Arcturus.....	AC	...	42.9	45.5	50.6	53.2	56.0	3.9	6.4	9.1	...	14. 10. 55.98			56.01	57.79	1.78		.....	
	13	Arcturus... (E&E)	AC	31.0	46.8	2.5	...	34.3	49.6	5.5	...	...	...	14. 10. 55.87			55.90	57.79	1.89		.....	
	14	Saturn 1 L.....	R	29.1	32.0	34.3	39.5	41.9	44.4	51.9	54.5	57.4	59.9	14. 45. 44.51						1.62	14. 45. 47.13	
	15	Saturn 2 L.....	R	30.2	32.6	35.4	40.6	43.0	45.7	52.9	55.6	58.3	0.9	14. 45. 45.54			45.52					
	16	ψ Boötis.....	R	44.0	46.9	49.6	55.1	58.0	0.6	9.1	12.0	14.7	17.6	15. 0. 0.79			0.70	2.32	1.62		.....	
	17	Groombridge 2283	R	55.1	13.2	27.9	38.7	51.1	2.4	15.4	25.0	35.9	45.5	15. 11. 19.71			2.63				15. 11. 4.24	- 20.69
	18	28 Libræ.....	R	45.1	47.8	50.2	55.9	58.2	...	...	...	...	...	15. 15. 0.79			1.34				15. 15. 2.95	- 3.19
	19	Uranus.....	R	59.8	2.0	4.9	9.8	12.5	15.1	22.9	25.6	28.2	30.6	15. 15. 15.17			15.72				15. 15. 17.33	
	20	α Coronæ.....	R	2.0	4.6	7.5	12.9	15.8	18.4	26.9	29.5	32.2	35.0	15. 30. 18.51			18.42	20.07	1.65		.....	
	21	ϵ Serpentis.....	R	...	...	...	33.9	36.5	39.0	46.7	49.1	51.4	53.9	15. 45. 39.09			39.34	40.95	1.61		.....	
	22	Piazzi XVI. 10 ..	R	18.7	21.4	24.0	29.3	32.1	34.5	42.7	45.3	48.0	50.5	16. 7. 34.68			35.28				16. 7. 36.89	- 3.48
	23	Groombridge 2332	R	4.1	9.1	14.1	23.8	28.9	33.9	48.9	53.8	58.4	3.4	16. 15. 33.89			32.91				16. 15. 34.52	- 3.53
	24	λ Ophiuchi.....	R	26.2	28.9	31.5	36.3	38.7	41.2	48.7	51.1	53.5	56.1	16. 25. 41.24			41.51	43.21	1.70		.....	
	25	Hebe.....	R	...	...	50.3	55.5	58.0	0.7	7.8	10.2	...	...	16. 33. 0.44			0.75				16. 33. 2.36	
	26	ζ Herculis.....	B	6.0	8.8	11.9	17.7	20.4	23.5	32.1	34.9	38.0	40.9	16. 37. 23.45			23.29	24.97	1.68	1.72	.....	
	27	Lacaille 7047.....	R	...	30.5	33.5	39.7	42.1	45.4	54.1	57.0	59.9	...	16. 48. 45.31			46.12			1.62	16. 48. 47.73	- 3.93
	28	κ Ophiuchi.....	B	31.0	33.4	36.0	40.9	43.4	45.9	53.4	56.0	58.3	0.9	16. 52. 45.94			46.11	47.84	1.73	1.72	.....	
	29	Groombridge 2413	R	4.9	14.1	23.3	41.4	50.8	0.5	28.1	37.4	47.0	50.8	16. 59. 0.42			58.09			1.62	16. 58. 59.70	- 4.46
	30	α Herculis.....	R	40.3	42.9	45.4	50.4	53.1	55.8	3.6	6.0	...	...	17. 9. 55.72			55.82	57.41	1.59		.....	
	31	α Ophiuchi.....	R	...	...	...	...	5.2	7.8	15.5	18.0	20.5	22.9	17. 30. 7.85			7.99	9.52	1.53		.....	
	32	δ Sagittarii.....	R	12.0	14.4	17.2	22.6	25.5	28.0	36.0	38.9	41.5	44.1	17. 53. 28.05			28.70				17. 53. 30.31	- 3.80
	33	ζ Serpentis.....	R	4.5	8.2	50.9	55.7	58.1	0.7	8.0	10.5	13.1	15.6	17. 55. 0.68			1.04				17. 55. 2.65	- 3.37
	34	δ Ursæ Minoris...	R	25.5	48.9	3.5	26.3	39.6	51.6	3.3	15.5	25.9	...	18. 6. 11.82			59.97				18. 6. 1.58	- 10.33
	35	η Serpentis.....	R	42.1	44.6	47.1	52.1	54.6	57.0	4.2	6.9	9.4	11.8	18. 15. 57.00			57.34	58.95	1.61		.....	
	36	41 Camelopardi S.P.	R	...	...	...	...	...	...	13.1	18.1	23.7	18. 30. 52.00			53.59					6. 30. 55.20	- 0.81
	37	Cephei 51 S.P. ...	R	52.5	8.5	22.0	36.5	48.4	4.2	18.0	31.2	44.1	55.9	18. 51. 23.73			38.71				6. 51. 40.32	+ 5.54
	38	β Andromedæ ...	CD	...	...	...	...	3.2	6.1	9.3	12.2	30.2	48.4	1. 3. 54.16	(- 7.74)		53.85	55.66	1.81	1.67	1. 3. 55.52	- 1.23
	39	Polaris.....	CD	21.6	27.1	34.2	51.4	56.0	1.2	14.0	20.9	29.6	49.8	1. 20. 55.05			19.97	22.78	2.81	[- 0.03]	1. 20. 21.64	+ 31.07
	40	α Arietis.....	CD	1.9	4.8	7.3	12.5	15.2	18.0	26.0	28.6	31.4	34.0	2. 1. 18.00			17.91	19.68	1.77		2. 1. 19.58	- 1.14
	41	Rigel.....	CD	...	...	...	...	38.1	40.8	43.3	45.8	0.7	15.9	5. 9. 30.86			31.24	32.83	1.59		5. 9. 32.90	- 0.49
	42	Venus 1 L.....	CD	39.6	42.0	45.0	...	...	...	6.3	9.0	11.9	...	5. 13. 55.66							.....	
	43	Venus 2 L.....	CD	...	...	...	50.9	53.6	56.3	4.2	...	...	...	5. 13. 56.28			55.88				5. 13. 57.54	
June 16	44	$\odot$ 1 L.....	CD	6.2	9.0	11.9	17.1	20.0	22.5	30.5	33.4	36.1	38.7	5. 40. 22.57								
	45	$\odot$ 2 L.....	CD	24.0	26.8	29.5	34.9	37.5	40.1	48.4	51.0	53.9	56.4	5. 42. 40.28								
	46	α Orionis.....	CD	...	...	21.3	26.1	28.9	31.4	38.9	41.2	43.8	46.1	5. 49. 31.32			31.47	33.15	1.68		5. 49. 33.13	- 0.70
	47	Pollux.....	CD	40.0	42.8	45.7	51.1	54.0	56.8	5.0	8.0	10.9	13.5	7. 38. 56.81			56.63	58.24	1.61		7. 38. 58.29	- 1.10
	48	Pollux..... (E&E)	CD	28.9	45.6	...	19.5	...	53.0	9.9	...	...	...	7. 38. 56.66			56.48	58.24	1.76		.....	
	49	Regulus.....	CD	34.6	37.1	39.8	44.8	47.2	49.9	57.4	0.0	2.6	5.0	10. 2. 49.86			49.94	51.53	1.59		10. 2. 51.60	- 1.53
	50	Regulus.... (E&E)	CD	26.9	42.0	...	...	...	42.9	57.9	...	...	...	10. 2. 49.73			49.81	51.53	1.72		.....	
	51	δ 1 L.....	CD	42.7	45.2	47.9	52.9	55.5	58.0	5.8	8.2	10.9	13.4	10. 15. 58.07			58.20				10. 17. 7.41	
	52	ρ Leonis.....	CD	...	...	...	14.9	17.5	20.0	27.5	30.0	32.5	35.1	10. 27. 20.03			20.15	21.73	1.58		10. 27. 21.81	- 1.63

Corrections to the times by Hardy for reduction to Sideral Standard, applied to form Concluded Transit, Nos. 13, 48 and 50, — 22^h.44 : — 22^h.74 : and — 22^h.73.
Corrections for passage of Semidiameter, Nos. 8 and 51, + 68^s.86 and + 67^s.54.

2. Observed over wire T with the transit-micrometer set to readings 34^r.600, 34^r.800, 35^r.000, 35^r.200, 35^r.400, 35^r.800, 36^r.000, 36^r.200, 36^r.400, 36^r.600.
3. Very unsteady. Observed over wire S with the transit-micrometer set to readings 35^r.021, 35^r.126, 35^r.218, 35^r.313, 35^r.397, 35^r.495, 35^r.588, 35^r.695, 35^r.795, 35^r.879.
6, 7. Limb boiling violently. 8. Limb scarcely visible. 8, 51. Correction to R.A. on true meridian, + 0^s.01.
9. Observed over wire T with the transit-micrometer set to readings 36^r.290, 36^r.205, 36^r.080, 35^r.960, 35^r.842, 35^r.702, 35^r.593, 35^r.425, 35^r.313, 35^r.202.
19. Observed over wire Q with the transit-micrometer set to readings 35^r.169, 35^r.404, 35^r.720, 35^r.887, 36^r.103, 36^r.282, 36^r.498, 36^r.664, 36^r.862, 37^r.011.
25, 27. Observed in dark field with wires illuminated. 29. Very faint; cloudy.
34. Observed over wire R with the transit-micrometer set to readings 35^r.060, 35^r.633, 35^r.959, 36^r.532, 36^r.846, 37^r.113, 37^r.391, 37^r.692, 37^r.982.
37. Observed over wire U with the transit-micrometer set to readings 35^r.610, 35^r.258, 35^r.041, 34^r.735, 34^r.494, 34^r.155, 33^r.900, 33^r.644, 33^r.393, 33^r.170.
38, 41. Observed over wires U, V, W, X, Y and Z.
39. Observed over wire T with the transit-micrometer set to readings 35^r.850, 35^r.886, 35^r.956, 36^r.100, 36^r.141, 36^r.183, 36^r.283, 36^r.351, 36^r.414, 36<

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[99]

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				s	s	s	s	s	s	s	s	s	s								
1896 JUNE	No. for Reference.	NAME OF OBJECT.	Observer.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h m s	"	s	s	s	s	h m s	
	June 16	1	δ ² Corvi	B	13.4	15.9	18.5	23.5	26.0	28.7	36.4	38.9	41.5	44.1	12. 24. 28.72	+ 0.89	29.22	31.00	1.78	1.79†	.....
	2	β Corvi	B	38.9	41.5	44.2	49.7	52.2	55.1	3.0	5.8	8.4	11.1	12. 28. 55.02	(- 7.74)	55.64	57.44	1.80	[- 0.03]	.....	
	3	β Corvi (E&E)	B	29.5	45.5	1.6	17.8	33.9	49.9	6.0	...	...	...	12. 28. 55.02	[+ 10.22]	55.64	57.44	1.80	.....	.....	
	4	Polaris S.P. ...	R.	32.5	49.1	59.8	4.1	16.7	21.7	27.1	59.8	5.0	24.9	13. 20. 22.04		21.12	23.22	2.10	1.67	1. 20. 22.77	+ 30.63
	5	Polaris S.P.	CD	58.5	18.8	23.7	30.0	43.1	57.6	25.4	32.0	36.1	50.0	13. 19. 44.69		20.19	23.22	3.03		1. 20. 21.84	+ 30.63
	6	τ Virginis	CD	...	...	...	...	31.9	34.2	36.8	51.5	6.4	13. 56. 21.98		22.21	23.82	1.61		13. 56. 23.86	- 2.68	
	7	4 Ursæ Minoris	R.	6.3	18.0	30.1	54.1	6.1	18.1	...	...	...	...	14. 9. 17.88		18.97			14. 9. 20.62	- 5.59	
	8	Lalande F. 454 S.P.	CD	0.9	10.1	19.8	28.9	56.8	6.6	16.0	34.9	44.4	53.6	14. 44. 57.11		0.14			2. 45. 1.79	+ 0.95	
	9	ξ ² Libræ	B	53.2	55.8	58.2	3.2	5.8	8.1	15.8	18.1	20.8	23.4	14. 51. 8.26		8.68	10.41	1.73	1.79†	.....	
	10	ξ ² Libræ (E&E)	B	45.6	0.8	15.9	31.0	46.1	1.1	16.2	...	...	...	14. 51. 8.24		8.66	10.41	1.75	.....	.....	
	11	ψ Boötis	CD	44.1	46.9	49.8	55.1	58.0	0.9	9.1	12.0	14.7	17.5	15. 0. 0.84		0.68	2.31	1.63	1.67	15. 0. 2.33	- 2.96
	12	Groomb. 614 S.P.	CD	...	18.0	32.0	46.9	29.5	44.0	58.1	26.5	41.3	...	15. 7. 29.40		34.00				3. 7. 35.65	+ 2.45
	13	Lalande F. (2) 194	CD	36.3	51.1	6.0	35.5	50.2	5.3	50.0	4.7	20.0	34.4	15. 11. 5.49		1.14				15. 11. 2.79	- 6.53
	14	W. B. X.V. 645 ...	CD	54.5	57.0	59.6	4.6	7.2	9.8	17.4	19.8	22.2	24.9	15. 36. 9.72		10.16				15. 36. 11.81	- 3.22
	15	A Persei S.P.	CD	26.9	30.8	34.9	38.5	50.1	54.1	58.1	...	...	...	15. 48. 50.15		51.27				3. 48. 52.92	- 0.65
	16	Carrington 567 S.P.	CD	46.3	3.1	20.9	35.5	27.5	44.2	0.5	34.5	51.4	7.7	15. 56. 27.00		32.39				3. 56. 34.04	+ 3.01
	17	Radcliffe 3513 ...	CD	35.1	39.8	44.8	54.0	58.8	3.1	17.4	22.0	26.8	31.5	16. 7. 3.38		2.35				16. 7. 4.00	- 3.47
	18	Groombridge 2323	CD	...	...	...	2.9	8.7	14.1	30.9	36.3	42.1	47.6	16. 8. 14.24		12.89				16. 8. 14.54	- 3.69
	19	B. F. 522 S.P.	CD	54.5	59.1	3.5	7.9	21.3	25.9	30.1	38.9	43.5	48.0	16. 13. 21.23		22.58				4. 13. 24.23	- 0.52
	20	Piazzi XVI. 68 ...	CD	55.2	58.0	0.6	5.9	8.5	11.5	19.3	22.0	24.7	27.5	16. 19. 11.35		11.97				16. 19. 13.62	- 3.58
	21	Groombridge 2363	CD	...	...	...	39.9	53.1	6.1	45.6	...	...	...	16. 26. 6.31		2.50				16. 26. 4.15	- 5.68
	22	Groombridge 2382	CD	1.5	13.5	25.9	49.0	0.9	12.9	48.3	0.0	12.1	23.9	16. 40. 12.92		9.50				16. 40. 11.15	- 5.24
	23	Lacaille 7047 ...	CD	28.0	30.8	...	39.5	...	...	...	...	57.1	...	16. 48. 45.45		46.25				16. 48. 47.90	- 3.94
	24	Groombridge 2405	CD	25.0	34.0	43.6	2.0	11.4	20.6	48.1	57.1	6.5	15.8	16. 56. 20.50		17.93				16. 56. 19.58	- 4.46
	25	η Ophiuchi	CD	10.6	13.2	15.9	20.9	23.5	26.0	33.8	36.2	38.9	41.6	17. 4. 26.09		26.59	28.25	1.66		17. 4. 28.24	- 3.54
	26	* (N.P.D. 65° 3') .	CD	30.6	33.4	36.1	41.5	44.1	47.0	55.1	58.0	0.6	3.1	17. 10. 46.98		46.86				17. 10. 48.51	- 3.11
	27	39 Ophiuchi	CD	...	...	...	...	...	...	...	...	...	...	17. 11. 41.52		42.17				17. 11. 43.82	- 3.76
	28	Groomb. 971 S.P.	CD	20.7	24.9	29.1	33.3	45.8	49.9	53.8	2.1	6.2	10.4	17. 22. 45.58		46.80				5. 22. 48.45	- 0.72
	29	Groomb. 990 S.P.	CD	39.4	43.4	47.5	51.3	3.1	7.2	11.3	18.9	23.0	26.9	17. 30. 3.16		4.31				5. 30. 5.96	- 0.74
	30	Groomb. 1002 S.P.	CD	32.7	36.7	41.0	45.3	58.2	2.5	6.9	15.4	19.3	24.0	17. 33. 58.16		59.43				5. 34. 1.08	- 0.72
	31	Groomb. 1048 S.P.	CD	32.2	36.2	40.2	44.1	56.0	0.0	4.0	11.5	15.6	19.5	17. 51. 55.89		57.03				5. 51. 58.68	- 0.82
	32	Groomb. 1053 S.P.	CD	...	...	24.0	28.1	40.0	43.9	48.0	55.6	...	...	17. 52. 39.89		41.03				5. 52. 42.68	- 0.83
	33	Groombridge 2519	CD	58.9	1.9	...	11.4	14.5	17.8	27.2	...	33.8	36.9	18. 5. 17.83		17.44				18. 5. 19.09	- 3.01
	34	W. B. (2) XVIII. 129-0.2	CD	46.1	49.1	52.3	58.8	2.0	5.3	14.7	18.0	21.0	24.1	18. 6. 5.17		4.78				18. 6. 6.43	- 3.01
	35	η Serpentis	CD	42.1	44.6	47.1	52.1	54.4	56.9	4.3	6.9	9.3	11.9	18. 15. 56.98		57.28	58.97	1.69		18. 15. 58.93	- 3.34
	36	Groomb. 1173 S.P. (1st Star).	CD	...	...	...	...	...	40.1	44.1	52.3	56.3	0.5	18. 25. 36.03		37.22				6. 25. 38.87	- 0.93
	37	Groomb. 1173 S.P. (2nd Star).	CD	12.0	16.3	20.2	24.1	36.4	...	...	...	...	...	18. 25. 36.35		37.54				6. 25. 39.19	- 0.93
	38	Piazzi XVIII. 173	CD	20.9	26.6	32.9	44.5	50.5	56.4	14.1	20.0	26.0	32.0	18. 35. 56.45		54.98				18. 35. 56.63	- 3.15
	39	Carrington 2838 ..	CD	50.1	7.4	25.5	...	...	36.5	...	48.0	5.4	23.5	18. 44. 36.77		31.49				18. 44. 33.14	- 4.84
	40	ε Aquilæ	CD	40.1	42.8	45.1	50.1	52.9	55.5	3.2	5.8	8.3	10.9	18. 54. 55.49		55.53	57.15	1.62		18. 54. 57.18	- 3.06
41	ζ Aquilæ	CD	23.9	26.2	29.0	34.0	36.5	39.1	46.8	49.0	51.7	54.2	19. 0. 39.06		39.12	40.81	1.69		19. 0. 40.77	- 3.05	
June 17	42	ε ² Boötis	R.	AC	10.2	12.9	15.9	21.5	24.2	27.0	...	...	...	14. 40. 26.98	(- 6.77)	27.85	29.59	1.74	1.75	.....	
	43	ψ Boötis	R.	AC	43.1	45.8	48.5	54.1	56.9	59.8	...	...	...	14. 59. 59.72	[+ 10.88]	0.59	2.31	1.72	[- 0.08]	.....	
	44	Groombridge 2283	AC	34.0	39.7	45.6	52.4	18.1	25.1	35.0	44.0	...	...	15. 11. 18.17		0.42				15. 11. 2.12	- 20.00
	45	γ Ursæ Minoris	R.	AC	7.1	14.8	23.1	39.7	47.1	55.6	19.6	27.9	35.8	15. 20. 55.55		56.31				15. 20. 58.01	- 4.44
	46	α Coronæ	H	2.1	4.9	7.8	13.1	15.8	18.5	27.1	29.8	32.5	35.4	15. 30. 18.73		18.66	20.06	1.40	1.46†	.....	
	47	θ Ursæ Minoris	R.	AC	...	...	47.1	10.0	21.5	33.2	8.1	19.5	...	15. 34. 33.34		34.05			1.75	15. 34. 35.75	- 5.42
	48	α Serpentis	H	55.1	57.7	0.1	5.1	7.6	10.0	17.6	20.0	22.5	25.1	15. 39. 10.10		10.34	11.75	1.41	1.46†	.....	
	49	Lalande 7539 S.P.	AC	41.9	46.0	50.2	54.4	...	...	...	...	...	...	16. 1. 7.21		8.52			1.75	4. 1. 10.22	- 0.59
	50	Carrington 577 S.P.	AC	...	...	...	...	...	20.8	36.9	11.4	28.9	46.1	16. 1. 3.06		8.48				4. 1. 10.18	+ 2.97
	51	Groomb. 790 S.P.	AC	41.0	45.0	49.4	53.5	6.0	10.0	14.1	22.1	26.8	30.9	16. 7. 5.84		7.11				4. 7. 8.81	- 0.62
	52	Piazzi XVI. 68 ...	AC	55.1	57.9	0.5	6.0	8.4	11.1	19.4	22.0	24.7	27.4	16. 19. 11.28		11.97				16. 19. 13.67	- 3.58
	53	Carrington 2478 ..	AC	...	...	47.9	19.7	35.6	52.0	40.1	56.1	...	...	16. 25. 52.06		47.54				16. 25. 49.24	- 6.46

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 3 and 10, — 22^h 74 and — 22^h 74.

4. Observed over wire T with the transit-micrometer set to readings 37^r.626, 37^r.477, 37^r.380, 37^r.344, 37^r.223, 37^r.183, 37^r.139, 36^r.841, 36^r.817, 36^r.644.
5. Observed over wire T with the transit-micrometer set to readings 34^r.945, 34^r.769, 34^r.730, 34^r.669, 34^r.538, 34^r.441, 34^r.185, 34^r.140, 34^r.093, 33^r.970.
6. Observed over wires V, W, X, Y and Z. 16. Observed in dark field with wires illuminated. 23. Very faint and diffused.
44. Observed over wire T with the transit-micrometer set to readings 35^r.862, 35^r.985, 36^r.055, 36^r.184, 36^r.595, 36^r.706, 36^r.873, 37^r.026.

1898G01MM

MONTH and DAY.	No. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Red- uction to Mean R.A. 1890-0.							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].																
				s	s	s	s	s	s	s	s	s	s																		
				s	s	s	s	s	s	s	s	s	s												h	m	s				
June 17	1	Lalande F. 681 S.P.	AC	...	...	...	...	1'9	22'1	43'1	23'3	44'9	5'3	16. 33. 1'56	+ 0'89		8'03			1'75	4. 33. 9'72	+ 3'65									
	2	Carrington 665 S.P.	AC	...	11'5	28'1	44'7	34'0	50'5	7'8	40'1	57'2	...	16. 38. 34'08	(- 6'77)		39'34			[- 0'08]	4. 38. 41'03	+ 2'53									
	3	Groomb. 895 S.P.	AC	5'2	15'2	26'1	36'4	8'0	19'1	29'1	50'1	0'5	11'9	16. 53. 8'06	[+ 10'88]		11'45				4. 53. 13'14	+ 0'85									
	4	Lalande 30971	AC	22'9	28'5	28'1	33'5	36'1	38'7	46'5	49'1	51'8	54'4	16. 57. 38'69			39'33				16. 57. 41'02	- 3'64									
	5	Bradley 2182	AC	31'2	34'0	36'5	42'0	44'8	47'3	55'6	58'1	0'9	3'6	17. 11. 47'43			48'13				17. 11. 49'82	- 3'77									
	6	θ Ophiuchi	AC	22'2	25'1	28'0	33'2	36'0	38'6	46'9	49'6	52'2	55'1	17. 15. 38'72			39'44	41'04	1'60		.....										
	7	Groomb. 971 S.P.	AC	21'1	25'1	29'3	33'5	46'0	50'0	54'0	2'0	6'1	10'3	17. 22. 45'70			46'96				5. 22. 48'65	- 0'74									
	8	Groombridge 2476	AC	...	...	...	...	40'5	2'24	21'29	1'...	...	...	17. 33. 24'19			18'02				17. 33. 19'71	- 6'93									
	9	Carrington 789 S.P.	AC	...	...	...	...	55'1	13'5	33'5	12'9	32'9	53'5	17. 34. 54'00			0'22				5. 35. 1'91	+ 2'58									
	10	Bradley 854 S.P.	AC	...	...	...	...	58'4	11'9	15'3	19'6	...	...	17. 51. 11'26			12'57				5. 51. 14'26	- 0'80									
	11	Groomb. 1044 S.P.	AC	...	...	...	...	25'8	30'0	34'1	...	46'6	51'0	17. 51. 25'61			26'91				5. 51. 28'60	- 0'80									
	12	Carrington 844 S.P.	AC	...	...	...	...	...	...	55'1	13'2	30'8	17'2	17. 57. 44'75			50'33				5. 57. 52'02	+ 1'73									
	13	Groombridge 2519	AC	58'4	1'6	4'9	11'2	14'3	17'5	27'2	30'1	33'5	36'6	18. 5. 17'56			17'26				18. 5. 18'95	- 3'02									
	14	δ Ursæ Minoris	AC	3'1	10'0	17'0	24'7	53'4	59'9	21'9	30'3	...	...	18. 6. 10'97			58'67				18. 6. 0'36	- 10'29									
	15	Oeltz. Arg. (N.) 18164	AC	...	...	...	...	...	41'5	52'3	56'1	0'0	3'8	18. 18. 41'10			40'53				18. 18. 42'22	- 3'01									
	16	Groomb. 1173 S.P.	AC	12'3	16'4	20'5	24'4	36'9	40'6	44'9	52'9	56'8	0'9	18. 25. 36'62			37'85				6. 25. 39'54	- 0'94									
	17	Groomb. 1203 S.P.	AC	34'7	39'0	43'8	48'0	1'7	6'1	10'7	19'5	24'1	28'7	18. 34. 1'59			2'99				6. 34. 4'68	- 0'93									
	18	Groomb. 1210 S.P.	AC	4'0	9'2	14'2	20'2	36'7	42'1	47'8	58'5	4'1	9'4	18. 37. 36'57			38'31				6. 37. 40'00	- 0'84									
	19	Groomb. 1226 S.P.	AC	49'9	...	57'9	...	13'9	...	...	29'8	...	37'6	18. 45. 13'79			14'99				6. 45. 16'68	- 1'02									
	20	Groomb. 1227 S.P.	AC	54'0	...	1'6	...	17'7	...	...	33'8	...	41'8	18. 45. 17'75			18'95				6. 45. 20'64	- 1'02									
	21	Cephei 51 S.P.	AC	30'9	39'0	43'6	48'5	16'6	23'9	29'6	35'2	...	...	18. 51. 24'80			40'40				6. 51. 42'09	+ 5'63									
	22	ζ Aquilæ	AC	23'9	26'1	28'9	34'0	36'3	38'9	46'5	49'1	51'7	54'1	19. 0. 38'97			39'11	40'83	1'72		.....										
	23	λ Ursæ Minoris	AC	32'0	38'6	45'5	54'6	26'3	32'4	40'2	47'8	...	...	19. 27. 50'19			8'72				19. 27. 10'41	- 16'82									
	24	β Andromedæ	B	36'0	39'0	42'1	48'1	51'1	54'2	3'2	6'1	9'2	12'2	1. 3. 54'15	(- 5'74)		54'02	55'73	1'71	1'59	1. 3. 55'61	- 1'30									
	25	Mars 2 L.	B	36'9	39'4	42'0	46'9	49'5	52'0	59'5	2'0	4'3	7'0	1. 17. 51'97			52'26			[- 0'01]	1. 17. 53'63										
	26	δ Cassiopeïæ	B	...	...	...	...	...	15'1	20'0	24'9	30'0	1. 19. 0'57			59'73				1. 19. 1'32	- 0'72										
	27	Polaris	B	14'6	26'9	37'2	49'0	0'2	44'7	55'0	6'0	19'3	31'2	1. 20. 52'41			20'98	24'57	3'59		1. 20. 22'57	+ 29'28									
	28	ε Cassiopeïæ	B	21'8	26'9	32'4	43'5	48'9	54'3	10'8	16'0	21'9	27'0	1. 46. 54'40			53'37				1. 46. 54'96	- 0'43									
	29	γ Andromedæ	B	10'4	13'9	17'1	23'9	27'0	30'4	40'2	43'6	47'0	50'2	1. 57. 30'40			30'13				1. 57. 31'72	- 1'02									
	30	α Arietis	B	...	4'5	7'4	12'6	15'4	18'1	26'1	28'7	31'6	...	2. 1. 18'08			18'14	19'74	1'60		2. 1. 19'73	- 1'20									
	31	β Trianguli	B	2'8	5'8	8'8	14'7	17'9	20'8	29'8	32'7	35'7	38'7	2. 3. 20'80			20'68				2. 3. 22'27	- 1'10									
	32	Venus 1 L.	B	44'4	0'5	16'8	...	...	33'0	...	49'1	5'1	21'1	5. 24. 32'88																	
	33	Venus 2 L.	B	...	20'1	22'9	28'2	30'9	...	41'8	44'3	46'9	...	5. 24. 33'62																	
June 18	34	⊙ 1 L.	B	25'2	28'0	30'9	36'0	38'8	41'7	49'5	52'1	55'0	57'8	5. 48. 41'53																	
	35	⊙ 2 L.	B	43'2	46'0	48'7	54'0	56'9	59'4	7'4	10'0	12'9	15'6	5. 50. 59'44																	
	36	Sirius	B	...	...	21'0	26'9	29'5	32'1	39'9	42'2	...	...	6. 40. 32'11			32'71				6. 40. 34'30	- 0'29									
	37	Procyon	B	35'6	38'0	40'6	45'4	47'9	50'4	57'9	0'2	2'9	5'2	7. 33. 50'43			50'74	52'36	1'62		7. 33. 52'33	- 0'81									
	38	α Leonis	B	20'3	22'9	25'6	30'3	33'0	35'7	43'1	45'6	48'0	50'6	9. 35. 35'53			35'77	37'34	1'57		9. 35. 37'36	- 1'36									
	39	ε Leonis	B	40'7	43'2	46'0	51'4	54'0	56'8	4'9	7'7	10'3	13'1	9. 39. 56'84			56'89	58'45	1'56		9. 39. 58'48	- 1'56									
	40	μ Leonis	B	34'3	37'0	39'9	45'4	48'1	50'9	59'1	1'9	4'9	7'5	9. 46. 50'93			50'95	52'55	1'60		9. 46. 52'54	- 1'61									
	41	Regulus	B	34'4	36'9	39'5	44'5	47'1	49'7	57'2	59'7	2'3	4'8	10. 2. 49'63			49'84	51'51	1'67		10. 2. 51'43	- 1'51									
	42	γ ¹ Leonis	B	58'6	1'1	3'9	9'0	11'6	14'1	22'1	24'8	27'5	30'0	10. 14. 14'30			14'40	16'02	1'62		10. 14. 15'99	- 1'68									
	43	χ Ursæ Majoris	B	12'4	16'2	20'0	27'4	31'0	34'9	46'0	49'6	53'4	57'0	11. 40. 34'83			34'40				11. 40. 35'99	- 2'49									
	44	β Leonis	B	...	...	...	...	43'0	45'6	53'2	55'8	58'4	0'9	11. 43. 45'61			45'78	47'30	1'52		11. 43. 47'37	- 2'06									
	45	γ Ursæ Majoris	B	58'0	2'1	6'5	14'9	19'1	23'4	36'0	40'0	44'2	48'5	11. 48. 23'31			22'68				11. 48. 24'27	- 2'67									
	46	δ 1 L.	B	23'8	26'2	28'9	34'0	36'6	39'1	46'8	49'2	51'9	54'2	11. 59. 39'09			39'53				12. 0. 48'34										
	47	ε Corvi	B	...	...	...	...	54'0	56'6	59'5	2'0	18'0	34'0	12. 4. 46'09			46'77	48'34	1'57		12. 4. 48'35	- 1'87									
	48	δ Ursæ Majoris	B	...	...	...	...	18'9	32'8	37'1	41'9	46'4	12. 10. 18'89			18'14				12. 10. 19'72	- 2'88										
	49	η Virginis	B	...	...	25'5	30'2	32'8	35'2	42'5	45'0	...	...	12. 14. 35'22			35'60				12. 14. 37'18	- 2'11									
50	γ Comæ	B	29'2	32'0	34'9	40'6	43'4	46'1	54'6	57'4	0'2	3'0	12. 21. 46'17			46'15				12. 21. 47'73	- 2'39										
51	β Canum Venaticum	B	29'6	32'9	36'1	42'9	46'1	49'5	59'5	2'7	6'0	9'4	12. 28. 49'51			49'24				12. 28. 50'82	- 2'57										
52	γ ¹ Virginis	B	8'8	11'1	...	...	...	23'7	...	...	35'9	38'2	12. 36. 23'56			23'95				12. 36. 25'53	- 2'21										
53	γ ² Virginis	B	...	...	13'9	18'7	21'2	...	31'1	33'6	...	...	12. 36. 23'73			24'12				12. 36. 25'70	- 2'21										

Corrections for passage of Semidiameter, Nos. 25 and 46, — $0^{\circ} \cdot 22$ and $+ 67^{\circ} \cdot 20$.

- 7, 9, 11. Observed in dark field with wires illuminated. 12. Observed over wires Q, P, O and N.
14. Observed over wire U with the transit-micrometer set to readings $33^{\circ}880$, $34^{\circ}031$, $34^{\circ}178$, $34^{\circ}390$, $35^{\circ}071$, $35^{\circ}211$, $35^{\circ}740$, $35^{\circ}954$.
21. Observed over wire Q with the transit-micrometer set to readings $37^{\circ}118$, $36^{\circ}954$, $36^{\circ}858$, $36^{\circ}755$, $36^{\circ}217$, $36^{\circ}050$, $35^{\circ}942$, $35^{\circ}840$.
23. Observed over wire O with the transit-micrometer set to readings $34^{\circ}955$, $35^{\circ}025$, $35^{\circ}051$, $35^{\circ}110$, $35^{\circ}360$, $35^{\circ}402$, $35^{\circ}458$, $35^{\circ}491$.
24, 25, 26, 27, 28, 29, 30. Hazy.
27. Observed over wire T with the transit-micrometer set to readings $32^{\circ}100$, $32^{\circ}200$, $32^{\circ}300$, $32^{\circ}400$, $32^{\circ}500$, $38^{\circ}700$, $38^{\circ}800$, $38^{\circ}900$, $39^{\circ}000$, $39^{\circ}100$.
32. Observed over wires M, N, O, T, X, Y and Z. 32, 33, 36, 44, 47, 48. Cloudy.
42. Very unsteady. 46. Correction to R.A. on true meridian, $+0^{\circ}02$.
47. Observed over wires U, V, W, X, Y and Z.

MON. H. DAY.		No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896 ^a .
					I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
June 18		1	ε Ursæ Majoris...	B	...	...	11.6	20.5	25.2	29.4	42.9	47.3	...	...	12. 49. 29.52	+ 0.89	28.82			1.59	12. 49. 30.40	- 3.02	
	2	δ Virginis	B	7.4	9.9	12.3	17.1	19.8	...	29.8	32.1	34.6	37.1	12. 50. 22.26	(- 5.74)	22.59	24.16	1.57	[- 0.01]	12. 50. 24.17	- 2.32		
	3	α Canum Venaticum	B	...	...	58.3	4.6	7.9	11.1	20.5	23.7	...	...	12. 51. 11.05	[+ 10.88]	10.84				12. 51. 12.42	- 2.64		
	4	α Comæ	B	40.9	43.5	46.0	51.3	54.0	56.4	4.2	6.9	9.5	12.0	13. 4. 56.50		56.64				13. 4. 58.22	- 2.48		
	5	β Comæ	B	45.4	48.1	51.0	56.5	59.4	2.1	10.6	13.4	16.1	19.0	13. 7. 2.19		2.17				13. 7. 3.75	- 2.55		
	6	σ Virginis	B	6.9	9.4	11.9	16.8	19.2	21.8	29.1	31.6	34.1	36.7	13. 12. 21.77		22.07				13. 12. 23.65	- 2.47		
	7	Spica	B	28.0	30.5	33.1	38.1	40.6	43.2	...	...	...	...	13. 19. 43.12		43.63	45.23	1.60		13. 19. 45.21	- 2.46		
	8	ζ ¹ Ursæ Majoris...	B	...	...	...	...	...	...	59.7	3.9	8.1	12.6	13. 19. 46.56		45.89				13. 19. 47.47	- 3.11		
	9	ζ ² Ursæ Majoris...	B	...	...	...	...	...	...	0.6	4.6	9.1	13.5	13. 19. 47.43		46.76				13. 19. 48.34	- 3.11		
	10	Polaris S.P.	B	40.0	51.4	2.4	13.8	24.9	37.4	10.9	21.1	33.1	21.6	13. 19. 49.66		21.75	25.05	3.30		1. 20. 23.33	+ 28.80		
	11	g Ursæ Majoris ...	B	39.6	44.0	48.2	57.0	1.4	5.8	18.9	23.1	27.6	32.0	13. 21. 5.80		5.14				13. 21. 6.72	- 3.12		
	12	ε ² Boötis.....R.	B	37.0	53.8	10.4	13.1	16.0	...	...	...	...	...	14. 40. 27.11		27.91	29.58	1.67		14. 40. 29.49	- 2.91		
	13	ε ² Boötis.....	B	...	...	...	...	...	...	42.0	44.8	1.5	18.1	14. 40. 28.12		28.12	29.58	1.46		14. 40. 29.70	- 2.91		
	14	Saturn 1 L.	B	57.6	59.9	2.6	7.8	10.2	12.8	20.3	22.9	25.5	28.0	14. 45. 12.78									
	15	Saturn 2 L.	B	58.9	1.5	4.0	9.0	11.5	14.0	21.7	24.1	26.7	29.2	14. 45. 14.08									
	16	β Ursæ Minoris R.	B	...	16.7	25.9	44.4	53.8	3.0	...	...	...	...	14. 51. 3.10		3.61				14. 51. 5.19	- 4.73		
	17	β Ursæ Minoris...	B	...	...	...	...	...	...	33.5	42.8	52.1	1.3	14. 51. 5.81		3.62				14. 51. 5.20	- 4.73		
	18	β Boötis.....	B	43.9	46.9	50.2	56.9	0.0	3.5	13.1	16.2	19.8	22.9	14. 58. 3.37		3.13				14. 58. 4.71	- 3.06		
	19	ψ Boötis	B	44.0	46.8	49.7	55.0	58.0	0.6	9.0	11.8	14.5	17.4	15. 0. 0.71		0.71	2.30	1.59		15. 0. 2.29	- 2.95		
	20	ι ¹⁰ Ursæ Min....R.	B	...	...	6.2	24.9	33.9	43.1	...	...	...	...	15. 5. 43.02		43.53				15. 5. 45.11	- 4.69		
	21	ι ¹⁰ Ursæ Min.....	B	...	...	...	...	...	...	12.9	21.9	31.0	40.3	15. 5. 45.68		43.55				15. 5. 45.13	- 4.69		
	22	δ Boötis	B	2.2	5.3	8.2	14.0	17.1	20.0	28.9	31.9	34.9	38.0	15. 11. 20.08		19.97				15. 11. 21.55	- 3.03		
	23	Uranus 1 L.	B	36.6	39.1	...	...	...	...	52.1	...	...	4.9	15. 14. 52.08									
	24	Uranus 2 L.	B	...	...	41.9	47.2	50.0	...	0.1	2.9	...	...	15. 14. 52.45									
	25	28 Libræ	B	45.1	...	...	...	...	...	8.5	10.9	13.8	16.1	15. 15. 0.69		1.31				15. 15. 2.89	- 3.19		
	26	β Coronæ.....R.	B	42.0	59.0	16.0	18.8	21.8	...	...	...	...	...	15. 23. 33.05		33.84				15. 23. 35.42	- 3.01		
	27	β Coronæ	B	...	...	...	...	...	...	45.1	48.0	50.9	7.8	15. 23. 33.87		33.84				15. 23. 35.42	- 3.01		
	28	θ Coronæ	B	28.1	31.1	34.1	39.7	42.7	45.7	54.2	57.1	59.9	2.9	15. 28. 45.58		45.51				15. 28. 47.09	- 3.04		
	29	α Coronæ	B	1.8	4.6	7.4	12.9	15.6	18.5	26.8	29.4	32.2	35.1	15. 30. 18.46		18.46	20.06	1.60		15. 30. 20.04	- 3.03		
	30	κ Serpentis.....R.	B	39.6	42.2	44.9	50.1	52.8	55.3	3.4	5.9	8.4	11.0	15. 36. 55.39		56.20				15. 36. 57.78	- 3.03		
	31	κ Serpentis	B	49.1	51.8	54.2	59.6	2.0	4.8	12.6	15.1	17.8	20.2	15. 44. 4.75		4.88				15. 44. 6.46	- 3.05		
	32	χ Herculis	B	...	49.5	53.1	59.9	3.1	6.6	16.7	20.0	23.4	...	15. 49. 6.57		6.28				15. 49. 7.86	- 3.13		
	33	π Scorpii	B	18.2	20.9	23.7	29.2	32.0	34.8	42.9	45.6	48.3	51.1	15. 52. 34.70		35.45				15. 52. 37.03	- 3.52		
	34	δ Scorpii	B	56.1	58.9	1.5	6.9	9.4	12.1	20.1	22.8	25.5	28.1	15. 54. 12.17		12.86				15. 54. 14.44	- 3.45		
	35	Carrington 567 S.P.	B	...	...	...	38.1	28.1	45.7	2.5	...	...	...	15. 56. 28.44		33.43				3. 56. 35.01	+ 2.79		
	36	Piazzi XVI. 10...	B	18.9	21.5	24.1	29.6	32.1	34.9	42.6	45.2	48.0	50.6	16. 7. 34.78		35.46				16. 7. 37.04	- 3.50		
	37	B. D. — 16° No. 4251.	B	...	...	...	...	...	...	19.1	22.0	39.8	55.3	16. 8. 9.04		9.64				16. 8. 11.22	- 3.41		
	38	Oeltz Arg. (S.) 15544	B	22.4	25.0	27.8	32.8	35.3	38.0	45.6	48.0	50.8	53.5	16. 14. 37.95		38.56				16. 14. 40.14	- 3.45		
	39	Piazzi XVI. 68...	B	55.0	57.8	0.5	...	...	...	...	22.0	24.7	27.4	16. 19. 11.26		11.97				16. 19. 13.55	- 3.59		
	40	Piazzi XVI. 72...	B	6.2	8.7	11.1	...	...	...	...	32.9	36.0	38.3	16. 19. 22.23		22.94				16. 19. 24.52	- 3.59		
	41	Groombridge 2345	B	55.6	1.0	6.2	16.7	22.1	27.2	42.9	48.1	53.5	58.8	16. 22. 27.26		26.30				16. 22. 27.88	- 3.56		
	42	Lalande F. 2811...	B	...	...	...	...	...	35.6	35.9	56.0	16.9	...	16. 24. 36.58		31.38				16. 24. 32.96	- 7.41		
	43	Carrington 2478...	B	...	...	...	...	...	...	40.0	55.9	12.8	28.0	16. 25. 51.93		47.80				16. 25. 49.38	- 6.38		
	44	Lalande F. 681 S.P.	B	...	...	...	...	1.7	22.0	43.1	24.1	44.9	6.0	16. 33. 1.66		7.72				4. 33. 9.30	+ 3.54		
	45	Carrington 665 S.P.	B	...	...	...	...	...	50.7	8.0	40.9	58.0	...	16. 38. 34.37		39.31				4. 38. 40.89	+ 2.44		
	46	ι Ophiuchi	B	51.4	54.0	56.5	1.5	4.0	6.5	14.0	16.5	19.1	21.6	16. 49. 6.53		6.77				16. 49. 8.35	- 3.19		
	47	κ Ophiuchi	B	31.0	33.4	36.0	40.9	43.5	46.0	53.5	56.0	58.6	1.1	16. 52. 46.02		46.28	47.86	1.58		16. 52. 47.86	- 3.19		
	48	ε Herculis	B	2.8	5.7	8.6	14.2	17.2	20.1	28.9	31.7	34.5	37.5	16. 56. 20.15		20.09	21.67	1.58		16. 56. 21.67	- 3.10		
	49	ζ Draconis	B	56.1	2.0	8.1	20.1	...	...	...	...	...	...	17. 8. 32.23		31.02				17. 8. 32.60	- 3.62		
	50	α Ophiuchi	B	52.6	55.1	57.8	2.6	5.2	7.8	15.2	17.8	20.2	23.0	17. 30. 7.75		7.96	9.55	1.59		17. 30. 9.54	- 3.20		
	51	Polaris	H	24.1	35.6	46.3	45.8	57.5	12.4	32.0	40.9	57.5	25.4	1. 20. 53.40	(- 5.33)	23.44	25.53	2.09	1.42	1. 20. 24.86	+ 28.32		
	52	Mars 2 L.	H	19.1	21.6	24.1	28.9	31.6	34.0	41.5	44.0	46.3	48.9	1. 20. 34.02	[+ 10.36]	34.25			[0.00]	1. 20. 35.45			
	53	Aldebaran	H	...	...	...	...	...	56.4	4.1	6.5	9.1	11.9	4. 29. 56.38	[+ 9.39]	56.49	57.93	1.44		4. 29. 57.91	- 0.84		
	54	β Tauri	H	...	...	...	37.1	39.8	42.6	50.9	53.7	56.1	...	5. 19. 42.53		42.49	43.89	1.40		5. 19. 43.91	- 0.88		

Correction for passage of Semidiameter, No. 52 — 0.22.

10. Observed over wire T with the transit-micrometer set to readings 37° 800, 37° 700, 37° 600, 37° 500, 37° 400, 37° 300, 33° 300, 33° 200, 33° 100, 31° 100.

12, 16, 20, 26, 30. Very windy.

12, 26. Observed over wires M, N, O, P and Q.

13. Observed over wires W, X, Y and Z.

27. Observed over wires V, W, X, Y and Z.

33, 54. Very faint.

35, 37, 38 42, 43, 44, 45. Observed in dark field with wires illuminated.

37. Observed over wires V, W, Y and Z.

51. Observed over wire T with the transit-micrometer set to readings 33° 249, 33° 319, 33° 440, 33° 939, 34° 040, 34° 180, 38° 048, 38° 125, 38° 282, 38° 530.

58A.1C [10]

58A.1C [10]

58A.1C [10]

- 58A.1C [10]

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock slow at 0 Sidereal and [Lossing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.											
				s	s	s	s	s	s	s	s	s	s											
											h	m	s											
June 20	1	Arcturus	WB	40.2	42.9	45.7	50.8	53.4	56.0	4.0	6.4	9.1	11.9	14. 10. 56.07	+ 0.89	56.14	57.75	1.61	1.65	14. 10. 57.77	- 2.72			
	2	31 Boötis	WB	...	...	...	...	30.8	33.2	40.8	43.1	45.7	48.2	14. 36. 33.26	(- 5.53)	33.47			[- 0.03]	14. 36. 35.10	- 2.85			
	3	Saturn 1 L.	WB	38.1	40.8	43.4	48.2	50.9	53.5	1.1	3.7	6.1	8.8	14. 44. 53.48	[+ 9.39]	54.58				14. 44. 56.21				
	4	Saturn 2 L.	WB	39.5	42.0	44.7	49.5	52.1	54.7	2.2	4.8	7.5	10.0	14. 44. 54.72		46.49				14. 51. 48.12	- 2.95			
	5	16 Libræ	WB	...	...	...	...	46.0	53.6	56.0	58.5	0.9	14. 51. 46.13		0.65	2.28	1.63		15. 0. 2.28	- 2.93				
	6	ψ Boötis	WB	44.0	46.8	49.6	55.0	57.9	0.5	8.9	11.8	14.6	17.4	15. 0. 0.68		1.13			15. 11. 2.76	- 18.80				
	7	Groombridge 2283	WB	38.7	49.0	0.1	5.6	16.8	22.0	31.5	37.9	50.6	56.9	15. 11. 15.84		1.26			15. 15. 2.89	- 3.19				
	8	28 Libræ	WB	...	...	...	...	...	...	8.4	11.1	13.7	16.2	15. 15. 0.73		18.43	20.05	1.62		15. 30. 20.06	- 3.02			
	9	α Coronæ	WB	1.9	4.5	7.4	12.9	15.6	18.3	26.8	29.5	32.3	35.0	15. 30. 18.45		4.90			15. 44. 6.53	- 3.04				
	10	κ Serpentis	WB	49.3	51.9	54.2	59.6	2.0	4.9	12.5	15.1	17.9	20.4	15. 44. 4.81		22.47			15. 52. 24.10	- 3.50				
	11	Lalande 29017 ...	WB	5.5	8.1	10.9	16.2	19.1	22.0	30.0	32.8	35.4	38.1	15. 52. 21.84		35.35			15. 56. 36.98	- 3.07				
	12	γ Herculis	WB	19.6	22.2	24.9	30.0	32.6	35.1	43.1	45.8	48.2	50.8	15. 56. 35.26		25.06	26.65	1.59	1.61	15. 59. 26.65	- 3.43			
	13	β ¹ Scorpii	B	8.9	11.5	14.1	19.1	21.9	24.4	32.2	35.0	37.6	40.1	15. 59. 24.51		6.89			1.65	4. 7. 8.52	- 0.72			
	14	Groomb. 790 S.P.	WB	41.0	...	49.3	53.6	5.9	10.0	14.1	22.3	...	30.7	16. 7. 5.82		35.01				4. 8. 36.64	- 0.72			
	15	Piazzi IV. 7 S.P.	WB	9.1	13.2	17.5	21.6	34.0	38.1	42.1	50.5	54.8	58.9	16. 8. 33.94		31.64				4. 10. 33.27	- 0.73			
	16	Groomb. 801 S.P.	WB	6.0	9.9	14.1	18.1	30.8	34.6	38.9	47.0	51.3	55.4	16. 10. 30.57		3.40				4. 14. 5.03	- 0.57			
	17	Lalande 7984 S.P.	WB	33.1	38.0	42.8	47.6	2.0	6.9	12.0	21.6	26.4	31.3	16. 14. 2.12		21.38	22.97	1.59	1.61	16. 17. 22.97	- 3.10			
	18	γ Herculis	B	5.6	8.2	10.9	16.0	18.6	21.4	29.1	31.8	34.2	37.0	16. 17. 21.31		22.86			1.65	16. 19. 24.49	- 3.60			
	19	Piazzi XVI. 72 ...	WB	6.1	8.9	11.6	16.9	19.6	22.2	30.2	32.9	35.6	38.2	16. 19. 22.25		26.77				16. 21. 28.40	- 3.52			
	20	Oeltz. Arg. (N.) 16188	WB	...	...	...	...	...	27.5	43.4	48.5	53.5	58.7	16. 21. 27.65		7.07				16. 54. 8.70	- 4.24			
	21	Groombridge 2400	WB	16.8	25.7	34.1	51.7	0.2	8.9	34.8	43.1	52.1	0.8	16. 54. 8.90		13.09				4. 59. 14.72	+ 0.25			
	22	Piazzi IV. 254 S.P.	WB	...	...	...	...	10.6	19.6	28.2	46.1	55.2	4.0	16. 59. 10.70		22.82				5. 5. 24.45	+ 1.19			
	23	B.D. + 79° No. 168 S.P.	WB	0.9	14.1	27.2	40.4	19.4	32.2	45.9	11.5	24.9	38.2	17. 5. 19.34		17.98				17. 11. 19.61	- 3.34			
	24	41 Ophiuchi	WB	2.8	5.3	7.9	12.8	15.1	17.7	25.0	27.5	30.0	32.3	17. 11. 17.66		22.82	24.50	1.68		17. 21. 24.45	- 3.30			
	25	α Ophiuchi	WB	7.9	10.1	12.7	17.6	20.1	22.5	30.0	32.3	34.9	37.3	17. 21. 22.56		24.70	26.33	1.63		17. 42. 26.33	- 3.09			
	26	μ Herculis	WB	8.0	10.8	13.6	19.1	22.0	24.7	33.1	35.8	38.6	41.4	17. 42. 24.74		4.64				5. 51. 6.27	- 0.84			
	27	34 Camelopardi S.P.	WB	37.6	41.9	46.2	50.5	3.5	7.9	12.1	20.9	25.1	29.7	17. 51. 3.50		0.07				18. 6. 1.70	- 10.20			
	28	δ Ursæ Minoris ...	WB	16.0	23.0	36.1	41.9	54.2	2.3	17.9	29.3	40.0	47.9	18. 6. 10.26		34.89				18. 11. 36.52	- 3.99			
	29	Piazzi XVIII. 24	WB	17.8	20.1	23.1	28.7	31.4	34.1	42.5	45.3	48.0	50.9	18. 11. 34.22		40.84				18. 18. 42.47	- 3.03			
	30	Oeltz. Arg. (N.) 18164	WB	18.5	22.1	26.0	33.6	37.4	41.4	52.9	56.4	0.3	4.0	18. 18. 41.30		55.21				18. 26. 56.84	- 3.90			
	31	Bradley 2319 ...	WB	38.3	41.0	43.7	49.1	51.9	54.6	2.7	5.4	8.0	10.8	18. 26. 54.58		2.90				6. 34. 4.53	- 0.97			
	32	Groomb. 1203 S.P.	WB	34.7	39.3	44.0	48.2	1.8	6.1	10.5	19.8	24.1	29.1	18. 34. 1.72		14.95				6. 45. 16.58	- 1.05			
	33	Groomb. 1226 S.P.	WB	50.0	54.0	58.1	2.0	14.0	18.0	21.9	29.9	34.0	37.8	18. 45. 13.93		38.60				6. 51. 40.23	+ 5.70			
	34	Cephei 51 S.P. ...	WB	37.9	50.9	57.4	8.0	16.0	26.0	32.0	44.1	49.8	6.5	18. 51. 25.62		39.22	40.88	1.66		19. 0. 40.85	- 3.12			
	35	ζ Aquilæ	WB	23.8	26.3	28.9	33.9	36.4	39.0	46.8	49.3	51.9	54.2	19. 0. 39.07		56.24				7. 2. 57.87	- 1.10			
	36	Groomb. 1268 S.P.	WB	29.0	33.1	37.5	42.0	55.1	59.6	4.0	12.5	17.0	21.5	19. 2. 55.09		57.51	59.18	1.67		19. 12. 59.14	- 3.13			
	37	ω Aquilæ	WB	42.1	44.8	47.3	52.1	54.9	57.4	4.9	7.4	9.9	12.3	19. 12. 57.33		16.79	18.49	1.70		19. 20. 18.42	- 3.24			
	38	δ Aquilæ	WB	1.7	4.0	6.5	11.6	14.0	16.5	24.0	26.3	28.9	31.4	19. 20. 16.51		14.35				19. 27. 15.98	- 17.78			
	39	λ Ursæ Minoris ...	WB	36.4	44.2	58.3	4.5	16.0	20.7	32.3	38.3	49.4	59.9	19. 27. 48.22		13.71	15.33	1.62	1.61	19. 50. 15.30	- 3.11			
	40	β Aquilæ	B	58.5	1.0	3.5	8.4	11.0	13.5	21.0	23.4	25.9	28.4	19. 50. 13.48		13.78	15.33	1.55		.....				
	41	β Aquilæ ... (E&E)	B	...	6.8	21.8	36.7	51.5	6.6	...	...	...	...	19. 50. 13.55		18.05	19.65	1.60		19. 56. 19.64	- 3.89			
	42	c Sagittarii	B	0.5	3.4	6.1	11.9	14.5	17.3	25.8	28.5	31.4	34.0	19. 56. 17.37		57.83	59.47	1.64		20. 5. 59.41	- 3.19			
	43	θ Aquilæ	B	42.7	45.1	47.6	52.5	55.0	57.5	4.9	7.3	9.9	12.3	20. 5. 57.50		57.84	59.47	1.63		.....				
	44	θ Aquilæ ... (E&E)	B	36.1	51.0	5.9	20.5	35.4	50.4	5.2	...	...	...	20. 5. 57.51						.....				
June 21	45	κ Virginis	AC	6.5	8.9	11.4	16.3	18.9	21.4	28.9	31.4	33.9	36.5	14. 7. 21.43	(- 4.81)	21.90	23.52	1.62	1.58	.....				
	46	Arcturus	AC	40.2	42.9	...	...	56.0	4.0	6.4	9.1	11.8	14. 10. 56.03	[+ 9.72]	56.16	57.75	1.59	[+ 0.01]	.....					
	47	ρ Boötis	AC	4.9	7.8	10.6	...	22.1	...	33.6	36.5	39.4	14. 27. 22.15		22.13	23.71	1.58		.....					
	48	ε ² Boötis	AC	11.3	14.0	16.9	22.1	25.1	28.0	36.2	39.0	41.9	44.6	14. 40. 27.94		27.96	29.55	1.59		.....				
	49	δ 1 L.	AC	...	...	...	9.8	12.5	15.1	23.4	...	...	...	14. 46. 15.23		15.86				14. 47. 30.06				
	50	Groombridge 2283	AC	39.9	45.3	52.4	58.0	24.8	42.0	...	...	...	...	15. 11. 13.85		59.77				15. 11. 1.36	- 18.34			
	51	Piazzi XV. 19	AC	6.1	8.9	11.5	17.0	19.9	22.1	30.0	32.9	35.5	38.1	15. 10. 22.23		22.86				15. 10. 24.45	- 3.22			
	52	Uranus 1 L.	AC	15.1	17.9	...	...	30.6	...	...	43.5	46.2	15. 14. 30.68						.....					
	53	Uranus 2 L.	AC	...	...	20.8	26.0	28.4	...	38.9	41.5	...	...	15. 14. 31.15		31.49				15. 14. 33.08				

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 41 and 44, — 23^h 15 and — 23^h 15.
Correction for passage of Semidiameter, No. 49, + 72^s 58.

7. Observed over wire T with the transit-micrometer set to readings 35^h 9.85, 36^h 1.36, 36^h 3.30, 36^h 4.33, 36^h 6.25, 36^h 7.10, 36^h 8.56, 36^h 9.72, 37^h 1.87, 37^h 2.94.
28. Observed over wire R with the transit-micrometer set to readings 34^h 8.56, 35^h 0.68, 35^h 3.50, 35^h 4.70, 35^h 7.84, 35^h 9.64, 36^h 3.74, 36^h 6.50, 36^h 8.96, 37^h 0.95.
34. Observed over wire T with the transit-micrometer set to readings 35^h 3.70, 35^h 0.99, 34^h 9.50, 34^h 7.74, 34^h 6.06, 34^h 4.44, 34^h 3.13, 34^h 0.64, 33^h 0.24, 33^h 5.94.
39. Observed over wire R with the transit-micrometer set to readings 34^h 9.04, 34^h 9.78, 35^h 0.87, 35^h 1.24, 35^h 2.10, 35^h 2.43, 35^h 3.40, 35^h 3.94, 35^h 4.50, 35^h 5.35.
49. Correction to R.A. on true meridian, + 0^s 03.
50. Observed over wire O with the transit-micrometer set to readings 35^h 0.20, 35^h 0.97, 35^h 2.03, 35^h 3.08, 35^h 7.59, 36^h 0.40.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE. AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
June 21	1	28 Libræ	AC	...	...	50.4	55.5	58.0	0.8	8.5	11.1	...	...	15. 15. 0.75	+ 0.89	1.32			1.58	15. 15. 2.91	- 3.19
	2	α Coronæ	AC	1.8	4.4	7.4	12.9	15.6	18.4	26.9	29.5	32.1	34.9	15. 30. 18.42	(- 4.81)	18.46	20.04	1.58	[+ 0.01]	.....	
	3	42 Libræ	AC	53.0	55.7	58.2	3.6	6.1	9.0	17.1	19.8	22.2	25.1	15. 34. 9.01	[+ 9.72]	9.66				15. 34. 11.25	- 3.38
	4	β Andromedæ ...	B	36.5	39.1	42.2	48.2	51.3	54.1	3.3	6.2	9.4	12.5	1. 3. 54.31		54.22	55.98	1.76		1.64	.....
	5	Polaris	B	28.8	50.2	3.6	16.2	12.5	24.9	36.1	48.1	57.8	22.0	1. 20. 54.02		27.00	28.76	1.76		.....	
	6	Mars 2 L.	B	24.0	26.4	28.9	34.0	36.4	38.9	46.3	48.9	51.4	54.0	1. 28. 38.94		39.21				1. 28. 40.62	
	7	β Arietis	B	37.5	40.1	42.7	48.0	50.5	53.2	1.1	3.7	6.4	9.1	1. 48. 53.26		53.88	54.94	1.56		.....	
	8	α Arietis	B	2.0	4.7	7.5	12.9	15.5	18.1	26.1	28.9	31.6	34.2	2. 1. 18.18		18.26	19.87	1.61		.....	
June 22	9	☉ 1 L.	B	3.6	6.1	8.9	14.2	17.0	19.9	27.9	30.5	33.4	36.0	6. 5. 19.78	+ 1.03	19.88				6. 6. 30.42	
	10	Sirius	B	45.9	1.3	16.9	19.4	...	...	...	...	...	...	6. 40. 32.28	(- 4.56)	32.85				6. 40. 34.49	- 0.32
June 23	11	ε ² Boötis	R	...	14.2	17.0	22.5	25.4	28.1	36.3	39.3	42.0	...	14. 40. 28.13	(- 5.86)	28.02	29.54	1.52	1.56	.....	
	12	Groombridge 2283	R	15.8	49.4	13.1	26.0	37.9	1.5	...	...	...	...	15. 11. 13.95		1.06			[- 0.01]	15. 11. 2.61	- 17.35
	13	28 Libræ	R	...	...	...	...	...	0.9	8.6	11.3	14.0	16.6	15. 15. 0.98		1.37				15. 15. 2.92	- 3.19
	14	κ Serpentis	R	40.6	43.2	45.9	51.1	53.8	56.2	4.1	6.9	9.4	12.0	15. 36. 56.35		56.33				15. 36. 57.88	- 3.01
	15	α Serpentis	R	55.1	57.8	0.1	5.1	7.6	10.1	17.5	20.0	22.5	25.0	15. 39. 10.10		10.23	11.74	1.51		.....	
	16	κ Serpentis	R	48.8	51.2	54.0	59.1	2.0	...	12.1	14.7	17.4	20.0	15. 44. 4.40		5.10				15. 44. 6.65	- 3.04
	17	γ Herculis	R	19.4	21.9	24.4	29.7	32.1	34.8	42.6	45.1	47.8	50.2	15. 56. 34.83		35.53				15. 56. 37.08	- 3.07
	18	κ Herculis	R	8.9	11.5	13.9	19.1	21.6	24.1	32.1	34.8	37.2	39.9	16. 3. 24.34		24.35				16. 3. 25.90	- 3.08
	19	Groomb. 795 S.P.	R	2.1	6.6	11.5	16.0	29.9	34.3	39.1	48.1	52.9	57.6	16. 8. 29.76		30.71				4. 8. 32.26	- 0.74
	20	Groomb. 779 S.P.	R	...	...	...	...	...	...	20.0	50.0	5.2	20.2	16. 8. 49.80		53.16				4. 8. 54.71	+ 1.74
	21	η Draconis	R	6.1	12.0	16.5	27.2	32.5	37.7	53.1	58.5	3.6	8.9	16. 22. 37.66		36.80				16. 22. 38.35	- 3.48
	22	ζ Ophiuchi	R	...	14.5	17.4	22.2	24.9	27.5	34.8	37.3	39.9	...	16. 31. 27.33		27.64	29.26	1.62		.....	
	23	ζ Herculis	R	6.1	9.1	12.0	17.9	20.8	23.6	32.1	35.1	38.1	41.0	16. 37. 23.61		23.44	24.98	1.54		.....	
	24	δ 1 L.	R	14.1	16.9	20.0	25.8	28.6	31.5	40.1	43.0	46.0	48.8	16. 53. 31.51		32.05				16. 54. 49.20	
	25	Lalande F. 713 S.P.	R	...	...	...	...	...	...	37.1	53.1	9.9	16. 59. 33.61		37.18				4. 59. 38.73	+ 1.67	
	26	41 Ophiuchi	R	3.0	5.5	8.0	12.9	15.5	18.0	25.4	27.9	30.2	32.6	17. 11. 17.92		18.13				17. 11. 19.68	- 3.36
	27	Piazzi XVII. 117.	R	2.1	5.0	7.9	13.5	15.9	...	26.9	29.9	32.3	35.1	17. 25. 18.76		19.27				17. 25. 20.82	- 3.92
	28	3 Sagittarii	R	46.1	48.8	51.6	...	...	2.7	...	14.0	16.7	19.4	17. 41. 2.79		3.32				17. 41. 4.87	- 4.01
	29	Oeltz. Arg. (N.) 6978 S.P.	R	24.9	32.3	40.8	48.1	11.9	20.2	28.0	43.6	52.0	59.5	18. 28. 12.05		13.82				6. 28. 15.37	- 0.54
	30	α Lyrae	R	7.8	10.8	14.0	20.5	23.7	26.9	32.3	39.3	42.4	45.8	18. 33. 26.77		26.51	28.04	1.53		.....	
	31	Cephei 51 S.P. ...	R	59.0	14.0	26.9	38.7	50.0	2.2	16.1	26.9	41.3	51.8	18. 51. 27.14		38.33	39.70	1.37		.....	
	32	ζ Aquilæ	R	24.0	26.8	29.2	34.1	36.8	39.3	47.0	49.4	52.0	54.5	19. 0. 39.33		39.38	40.93	1.55		.....	
	33	Groomb. 1268 S.P.	R	28.8	33.4	38.0	42.0	...	59.9	4.4	12.9	17.0	22.0	19. 2. 55.33		56.24				7. 2. 57.79	- 1.13
	34	Groomb. 1284 S.P.	R	58.4	2.5	6.6	10.6	22.9	26.9	30.9	39.2	42.9	47.1	19. 9. 22.76		23.56				7. 9. 25.11	- 1.17
	35	λ Ursæ Minoris ..	R	35.8	54.0	8.1	21.4	33.0	44.9	57.6	12.0	24.9	36.2	19. 27. 47.73		17.70	18.04	0.34		.....	
June 24	36	Polaris S.P.	CD	16.1	22.1	28.6	50.6	56.1	20.9	26.1	34.1	52.9	59.6	13. 20. 3.88		28.74	31.58	2.84	1.60	.....	
	37	η Boötis	CD	29.3	32.0	34.6	39.9	42.4	45.0	52.9	55.4	58.2	0.7	13. 49. 45.07		45.06	46.58	1.52	[- 0.12]	.....	
	38	η Boötis	CD	21.4	36.9	...	8.5	...	39.6	55.4	...	...	...	13. 49. 44.99		44.98	46.58	1.60		.....	
	39	κ Virginis	CD	6.6	9.1	11.6	16.6	19.1	21.7	29.1	31.6	34.1	36.6	14. 7. 21.63		21.94	23.50	1.56		.....	
	40	κ Virginis	CD	59.8	14.9	...	45.0	...	14.9	30.0	...	...	...	14. 7. 21.55		21.86	23.50	1.64		.....	
	41	Arcturus	CD	40.4	43.1	45.8	50.9	53.6	56.1	4.0	6.7	9.4	12.0	14. 10. 56.23		56.21	57.72	1.51		.....	
	42	Saturn 1 L.	CD	...	...	...	...	16.2	18.9	26.5	28.9	31.6	34.0	14. 44. 18.87		19.85				14. 44. 21.38	
	43	Saturn 2 L.	CD	...	...	...	...	...	20.1	27.8	30.1	32.9	35.2	14. 44. 20.12						.....	
	44	Uranus 1 L.	CD	55.1	57.7	0.3	...	...	...	...	21.1	23.8	26.1	15. 14. 10.70					.....		
	45	Uranus 2 L.	CD	...	...	...	5.8	8.2	11.0	18.7	...	...	...	15. 14. 10.96		11.22				15. 14. 12.74	
	46	δ 1 L.	CD	40.0	42.6	45.9	51.5	54.6	57.4	6.0	8.9	11.9	14.7	17. 58. 57.38						18. 0. 14.46	
	47	α Lyrae	C	7.3	10.3	14.0	20.3	23.6	26.7	...	...	...	...	18. 33. 26.53		57.92				.....	
	48	Groombridge 2666	C	...	...	...	12.1	16.0	19.2	29.6	32.9	36.0	39.7	18. 43. 19.26		26.27	28.05	1.78	1.78	18. 43. 20.59	- 3.00
	49	ε Aquilæ	CD	40.5	42.9	45.5	50.6	53.1	55.8	3.4	5.9	8.5	11.1	18. 54. 55.75		18.90				.....	
	50	Groombridge 2739	C	...	...	...	6.7	10.0	13.2	23.1	26.5	30.0	33.1	18. 57. 13.35		55.79	57.27	1.48	1.60	18. 57. 14.72	- 2.97

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 38 and 40, — 23^s.39 and — 23^s.39.
Corrections for passage of Semidiameter, Nos. 6, 9, 24, and 46, — 0^s.23 : + 68^s.90 : + 75^s.58 : and + 75^s.01.

5. Observed over wire T with the transit-micrometer set to readings 33^s.800, 34^s.000, 34^s.100, 34^s.200, 36^s.300, 36^s.400, 36^s.500, 36^s.600, 36^s.700, 37^s.400.
10. Cloudy. Observed over wires M, N, O and P.
12. Observed over wire T with the transit-micrometer set to readings 34^s.600, 35^s.200, 35^s.600, 35^s.800, 36^s.000, 36^s.400.
24, 46. Correction to R.A. on true meridian, + 0^s.02.
31. Observed over wire T with the transit-micrometer set to readings 36^s.169, 35^s.863, 35^s.602, 35^s.368, 35^s.159, 34^s.902, 34^s.636, 34^s.418, 34^s.140, 33^s.936.
35. Observed over wire R with the transit-micrometer set to readings 35^s.327, 35^s.492, 35^s.608, 35^s.691, 35^s.779, 35^s.870, 35^s.955, 36^s.030, 36^s.164, 36^s.226.
36. Observed over wire P with the transit-micrometer set to readings 36^s.272, 36^s.210, 36^s.162, 35^s.955, 35^s.910, 35^s.704, 35^s.646, 35^s.578, 35^s.417, 35^s.345.
42, 43. Very faint; cloudy.
44, 45. Very faint.
46. Cloudy; limb boiling.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Correc- ted.	Tabular R.A. of Known Stars.	Clock apparent- ly Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.	
															[Azimuth].								
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m							s
1893				s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s
June 24	1	20 Aquilæ	C	48.8	51.2	54.0	58.9	1.3	4.0	11.5	14.0	16.4	18.7	19. 7. 3.90	+ 1.03	4.19			1.78	19. 7. 5.87	- 3.54		
	2	8 Aquilæ	C	1.5	4.3	6.7	11.9	14.2	16.9	24.4	26.8	29.3	31.8	19. 20. 16.80	(- 5.86)	16.97	18.56	1.59	[- 0.12]	.....			
	3	λ Ursæ Minoris...	C	37.7	59.5	18.1	30.1	45.6	58.0	12.0	23.7	38.8	54.4	19. 27. 44.17	[+ 7.26]	14.13	18.05	3.92		.....			
June 25	4	ε Virginis	AC	45.5	48.0	50.7	55.7	58.1	0.6	8.1	10.7	13.2	15.8	12. 57. 0.66	(- 3.12)	1.10	2.32	1.22	1.40	12. 57. 2.31	- 2.34		
	5	θ Virginis	AC	19.5	22.0	24.4	29.4	31.9	34.2	41.8	44.1	46.7	49.1	13. 4. 34.33	[+ 12.44]	34.97	36.14	1.17	[- 0.36]	13. 4. 36.17	- 2.32		
	6	Spica	R.	27.9	30.3	33.0	38.0	40.5	43.1	...	...	...	...	13. 19. 43.01		43.92	45.17	1.25		13. 19. 45.12	- 2.40		
	7	Polaris S.P. ...	R.	50.4	54.9	0.2	6.5	25.9	31.9	36.1	41.6	...	...	13. 20. 20.96		34.83	32.64	2.19		.....			
	8	Polaris S.P.	AC	57.9	2.6	8.0	35.6	41.1	46.0	...	...	...	...	13. 20. 1.22		29.77	32.64	2.87		.....			
	9	Saturn 1 L	AC	55.9	58.2	0.9	6.0	8.5	11.1	18.7	21.1	23.7	26.2	14. 44. 11.05		12.47				14. 44. 13.65			
	10	Saturn 2 L	AC	57.1	59.7	2.1	7.2	10.0	12.4	20.0	22.4	25.1	27.6	14. 44. 12.38									
	11	ξ ² Libræ	AC	53.5	55.9	58.5	3.5	6.0	8.5	16.0	18.5	21.1	23.6	14. 51. 8.53		9.24	10.38	1.14		14. 51. 10.42	- 2.97		
	12	ψ Boötis	R.	43.4	46.1	49.1	54.5	57.2	0.0	...	...	...	...	15. 0. 0.07	(0.75)	58.62				(15. 0. 1.93)	- 2.89		
	13	Groombridge 2283	AC	38.0	43.4	48.2	54.0	25.1	30.1	36.0	42.8	...	...	15. 11. 12.87						15. 10. 59.79	- 16.37		
	14	Uranus 1 L	AC	48.6	51.3	...	...	...	4.4	12.0	14.5	...	...	15. 14. 4.26		5.21				15. 14. 6.38			
	15	Uranus 2 L	AC	...	...	54.1	59.3	2.0	...	...	...	17.5	20.1	15. 14. 4.55									
	16	ι Serpentis	R.	40.0	42.6	45.1	50.5	53.1	55.8	3.6	6.2	8.9	11.4	15. 36. 55.75		56.47				15. 36. 57.64	- 3.01		
	17	κ Serpentis	AC	49.5	52.0	54.6	59.8	2.1	4.9	12.9	15.3	18.0	20.5	15. 44. 4.99		5.34				15. 44. 6.50	- 3.03		
	18	κ Herculis	AC	8.9	11.4	14.0	19.2	...	...	...	...	...	...	16. 3. 24.38		24.75				16. 3. 25.91	- 3.08		
	19	δ Ophiuchi	AC	10.4	25.3	...	...	...	2.5	4.9	7.5	...	...	16. 8. 55.05		53.67	56.87	1.20		16. 8. 56.83	- 3.25		
	20	γ Ophiuchi	AC	11.1	13.6	16.1	21.4	24.0	26.5	34.1	36.8	39.3	42.0	17. 4. 26.51		27.27	28.32	1.05		17. 4. 28.41	- 3.61		
	21	β Ophiuchi	AC	6.9	9.4	11.8	16.8	19.1	21.6	29.1	31.6	34.0	36.5	17. 38. 21.70		22.23	23.38	1.15		17. 38. 23.37	- 3.34		
	22	Groomb. 1044 S.P.	AC	...	4.7	9.1	13.5	26.0	30.1	34.4	42.9	47.2	...	17. 51. 25.95		27.30				5. 51. 28.43	- 0.97		
	23	Piazzi XVII. 312.	AC	22.1	24.9	27.5	32.8	35.4	38.1	46.1	48.9	51.5	54.1	17. 55. 38.17		39.04				17. 55. 40.17	- 3.91		
	24	τ Ophiuchi	AC	...	...	...	...	...	26.8	34.1	36.7	39.1	41.9	17. 57. 26.78		27.46				17. 57. 28.59	- 3.56		
	25	δ Ursæ Minoris...	AC	25.8	31.4	46.1	52.5	16.1	22.2	29.1	35.5	...	...	18. 6. 9.32		59.53	0.34	0.81		.....			
	26	Groomb. 1004 S.P.	AC	56.1	14.0	30.3	25.1	41.6	59.5	...	...	...	...	18. 5. 57.77		9.05				6. 6. 10.18	+ 5.86		
	27	λ Sagittarii	AC	18.8	21.4	24.1	29.5	32.3	35.0	43.3	46.0	48.9	51.5	18. 21. 35.11		36.03	37.10	1.07		18. 21. 37.15	- 4.02		
	28	Oeltz. Arg. (N.) 6978 S.P.	AC	24.2	32.1	40.5	48.1	12.0	...	...	...	...	...	18. 28. 11.77		14.13				6. 28. 15.25	- 0.59		
	29	Lalande 34541 ...	AC	5.5	9.6	13.6	21.6	25.5	29.7	42.0	45.9	49.9	53.9	18. 30. 29.76		29.50				18. 30. 30.62	- 3.06		
	30	Piazzi XVIII. 173	AC	...	26.7	32.5	44.3	50.2	56.3	14.1	20.0	26.0	...	18. 35. 56.32		55.52				18. 35. 56.64	- 3.23		
	31	β ¹ Lyræ	AC	58.1	1.1	4.1	10.1	13.2	16.0	25.0	27.9	30.8	33.8	18. 46. 16.04		16.19	17.42	1.23		18. 46. 17.31	- 3.03		
	32	Cephei 51 S.P. ...	AC	48.4	53.4	58.6	3.9	24.2	30.6	35.9	40.9	...	...	18. 51. 25.30		38.36	39.90	1.54		.....			
	33	Lalande 35695 ...	AC	25.3	31.0	37.1	48.6	54.6	0.6	18.4	24.0	30.0	35.9	18. 56. 0.61		59.82				18. 56. 0.94	- 3.13		
	34	ζ Aquilæ	AO	24.1	26.7	29.2	34.2	36.9	39.5	47.1	49.6	...	...	19. 0. 39.42		39.84	40.96	1.12		19. 0. 40.95	- 3.20		
	35	Capella	B	39.0	42.3	46.1	53.2	56.6	0.2	10.9	14.3	18.0	21.6	5. 9. 0.26	[+ 11.42]	0.17			1.16 [0.00]	5. 9. 1.33	- 1.01		
June 26	36	© 1 L	B	40.8	43.5	46.2	51.6	54.2	57.1	5.0	7.8	10.3	13.2	6. 21. 57.00		57.26				6. 23. 7.26			
	37	Sirius	B	16.9	19.5	22.1	27.4	30.0	32.6	...	...	...	...	6. 40. 32.49		33.20				6. 40. 34.36	- 0.35		
	38	Regulus	B	34.8	37.3	39.9	44.9	47.3	49.9	57.6	59.9	2.4	5.1	10. 2. 49.93		50.32	51.47	1.15		10. 2. 51.48	- 1.47		
	39	μ Ursæ Majoris...	B	48.4	52.1	55.6	2.0	5.4	8.7	18.6	21.8	25.4	28.9	10. 16. 8.72		8.70				10. 16. 9.86	- 1.87		
	40	β Ursæ Majoris...	B	...	12.9	17.5	26.3	31.0	35.5	49.4	53.9	58.1	...	10. 55. 35.62		35.24				10. 55. 36.40	- 2.26		
	41	α Ursæ Majoris...	B	48.4	53.9	59.1	9.9	15.1	20.5	36.1	41.9	47.0	52.2	10. 57. 20.46		19.85				10. 57. 21.01	- 2.37		
	42	δ Leonis	B	19.2	22.0	24.3	29.9	32.5	35.1	43.1	45.7	48.4	51.0	11. 8. 35.15		35.43	36.55	1.12		11. 8. 36.59	- 1.88		
	43	ε Ursæ Majoris...	B	2.2	6.8	11.4	20.2	24.9	29.3	42.6	47.1	51.8	56.1	12. 49. 29.28		28.90				12. 49. 30.06	- 2.80		
	44	δ Virginis	B	...	10.0	12.6	17.5	20.0	22.5	29.9	32.2	34.8	...	12. 50. 22.46		22.95	24.09	1.14		12. 50. 24.11	- 2.25		
	45	Bradley 1724	B	...	...	...	3.5	6.6	9.9	19.4	...	...	...	12. 51. 9.88		9.92				12. 51. 11.08	- 2.51		
	46	α Canum Venaticum	B	52.1	55.1	58.4	4.8	8.0	11.1	20.5	23.7	27.0	30.0	12. 51. 11.10		11.14				12. 51. 12.30	- 2.51		
	47	ε Virginis	R.	45.1	47.8	50.2	55.3	57.9	0.3	...	...	...	...	12. 57. 0.34		1.08	2.31	1.23		12. 57. 2.24	- 2.34		
	48	θ Virginis	B	...	...	...	...	...	...	41.9	44.2	46.8	49.2	13. 4. 34.42		35.00	36.13	1.13		13. 4. 36.16	- 2.31		
	49	β Comæ	R.	11.2	28.0	44.9	47.6	50.6	...	...	...	...	...	13. 7. 1.72		2.36				13. 7. 3.52	- 2.45		
	50	β Comæ	B	...	...	...	...	...	16.2	19.1	36.0	52.9	13. 7. 2.33		2.53				13. 7. 3.69	- 2.45			
	51	Polaris S.P. ...	R.	25.2	36.9	47.2	58.4	10.2	32.8	44.2	55.5	6.2	18.1	13. 20. 21.47		33.34	33.65	0.31		.....			
	52	Polaris S.P.	B	46.0	56.2	9.8	20.5	32.6	39.2	49.1	1.6	12.3	23.7	13. 20. 5.10		31.65	33.65	2.00		.....			

Correction for passage of Semidiameter, No. 36, + 68".84.

3. Observed over wire T with the transit-micrometer set to readings 35".983, 36".121, 36".259, 36".359, 37".805, 37".868, 37".964, 38".064, 38".158, 38".266.
 3, 34, 37. Cloudy.
 7. Observed over wire W with the transit-micrometer set to readings 36".170, 36".125, 36".081, 36".025, 35".875, 35".812, 35".770, 35".720.
 8. Observed over wire U with the transit-micrometer set to readings 35".826, 35".772, 35".715, 35".648, 35".440, 35".399.
 13. Observed over wire T with the transit-micrometer set to readings 35".018, 35".100, 35".192, 35".278, 35".811, 35".888, 35".975, 36".113.
 19. Observed over wires M, N, U, V and W.
 25. Observed over wire W with the transit-micrometer set to readings 35".305, 35".445, 35".793, 35".949, 36".526, 36".665, 36".853, 36".980.
 26. Observed over wire T with the transit-micrometer set to readings 37".000, 36".600, 36".200, 35".800, 34".600, 34".200.
 32. Observed over wire U with the transit-micrometer set to readings 36".881, 36".792, 36".652, 36".566, 36".193, 36".051, 35".971, 35".850.
 38, 39, 40, 41. Very diffused and unsteady.
 49. Observed over wires M, N, O, P and Q.
 50. Observed over wires W, X, Y and Z.
 51. Observed over wire T with the transit-micrometer set to readings 36".100, 36".000, 35".900, 35".800, 35".700, 35".500, 35".400, 35".300, 35".200, 35".100.
 52. Observed over wire T with the transit-micrometer set to readings 38".400, 38".300, 38".200, 38".100, 38".000, 33".200, 33".100, 33".000, 32".900, 32".800.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for duction to Mean R.A. 1890.														
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m							s	"												
																									s	s	s	s	s	s	s	s	s	s	s	s
June 26	1	ζ Virginis	B	9'5	12'0	14'5	19'4	21'9	24'2	31'8	34'1	36'7	39'1	13. 29. 24'34	+ 1'03	24'87	26'02	1'15	1'16	13. 29. 26'03	- 2'47															
	2	ζ Virginis... (E&E)	B	3'5	18'5	33'3	48'0	2'9	17'8	32'7	...	...	...	13. 29. 24'32	(- 3'12)	24'85	26'02	1'17	0'00	.....	.....															
	3	ε² Boötis.....	B	11'5	14'2	17'0	22'5	25'4	28'1	36'5	39'2	42'0	44'9	14. 40. 28'16	[+ 11'42]	28'37	29'51	1'14	.....	14. 40. 29'53	- 2'84															
	4	ε² Boötis... (E&E)	B	1'6	18'5	35'2	52'0	8'7	25'5	42'2	...	...	...	14. 40. 28'18	.....	28'39	29'51	1'12	.....	.....	.....															
	5	Saturn 1 L.	B	48'2	50'8	53'4	58'4	1'0	3'6	11'1	13'6	16'1	18'8	14. 44. 3'52	.....	4'83	.....	.....	.....	14. 44. 5'99	.....															
	6	Saturn 2 L.	B	49'5	52'1	54'6	59'8	2'2	4'8	12'2	14'9	17'4	20'0	14. 44. 4'77	.....	.....	.....	.....	.....	.....	.....															
	7	β Ursæ Minoris R.	B	...	16'8	26'7	44'7	54'1	3'6	...	...	...	...	14. 51. 3'52	.....	3'40	.....	.....	.....	14. 51. 4'56	- 4'24															
	8	β Ursæ Minoris...	B	...	...	...	...	...	32'9	42'0	51'5	0'7	14. 51. 5'16	.....	3'58	.....	.....	.....	14. 51. 4'74	- 4'24																
	9	β Boötis	B	43'9	47'1	50'4	57'0	0'1	3'6	13'1	16'5	19'9	23'0	14. 58. 3'49	.....	3'49	.....	.....	.....	14. 58. 4'65	- 2'96															
	10	δ Boötis	B	2'2	5'3	8'2	14'2	17'3	20'1	29'1	32'1	35'1	38'1	15. 11. 20'20	.....	20'32	.....	.....	.....	15. 11. 21'48	- 2'96															
	11	W. B. (2) XV. 213	B	10'7	13'6	16'7	22'4	25'5	28'5	37'5	40'2	43'3	46'2	15. 11. 28'49	.....	28'61	.....	.....	.....	15. 11. 29'77	- 2'96															
	12	Uranus 1 L.	B	42'4	44'9	...	...	...	58'0	...	...	10'9	13'6	15. 13. 57'08	.....	58'89	.....	.....	.....	15. 14. 0'05	.....															
	13	Uranus 2 L.	B	...	...	48'0	53'2	55'7	...	6'0	8'6	...	...	15. 13. 58'33	.....	.....	.....	.....	.....	.....	.....															
	14	28 Libræ	B	45'5	48'0	50'6	55'9	58'3	1'1	8'8	11'3	14'0	16'6	15. 15. 1'04	.....	1'77	.....	.....	.....	15. 15. 2'93	- 3'18															
	15	η Coronæ	B	...	...	44'6	50'2	53'3	56'0	4'7	7'6	...	...	15. 18. 56'10	.....	56'26	.....	.....	.....	15. 18. 57'42	- 2'96															
	16	ζ¹ Libræ.....	B	...	11'9	14'3	19'6	22'1	24'8	32'2	34'9	37'6	...	15. 22. 24'71	.....	25'43	26'57	1'14	.....	15. 22. 26'59	- 3'19															
	17	ζ² Libræ.....	B	34'2	36'9	39'4	44'3	47'1	49'6	57'3	59'8	2'2	5'0	15. 24. 49'61	.....	50'33	.....	.....	.....	15. 24. 51'49	- 3'21															
	18	ζ³ Libræ.....	B	48'4	51'0	53'7	58'8	1'3	4'0	11'8	14'1	16'9	19'4	15. 27. 3'97	.....	4'69	.....	.....	.....	15. 27. 5'85	- 3'23															
	19	γ Libræ	B	28'3	31'0	33'6	38'6	41'1	44'0	51'4	54'0	56'5	59'1	15. 29. 43'78	.....	44'47	.....	.....	.....	15. 29. 45'63	- 3'22															
	20	41 Libræ	B	40'9	43'6	46'1	51'4	54'0	56'6	4'3	6'9	9'5	12'1	15. 32. 56'57	.....	57'32	.....	.....	.....	15. 32. 58'48	- 3'30															
	21	κ Libræ	B	42'9	45'5	48'1	53'3	56'0	58'5	6'1	8'9	11'6	14'1	15. 35. 58'53	.....	59'29	.....	.....	.....	15. 36. 0'45	- 3'30															
	22	ι Serpentis	B	...	...	...	...	...	...	4'1	6'8	9'4	12'0	15. 36. 56'31	.....	56'61	.....	.....	.....	15. 36. 57'77	- 3'00															
	23	κ Serpentis ....R.	B	49'0	51'6	54'1	59'4	2'0	4'5	12'2	14'9	17'6	20'0	15. 44. 4'56	.....	5'25	.....	.....	.....	15. 44. 6'41	- 3'03															
	24	λ Libræ	B	3'4	6'0	8'6	13'8	16'4	19'1	27'1	29'7	32'2	34'9	15. 47. 19'15	.....	19'91	.....	.....	.....	15. 47. 21'07	- 3'38															
	25	π Scorpii	B	...	...	...	29'4	32'2	35'0	43'3	46'0	48'8	51'5	15. 52. 35'05	.....	35'90	.....	.....	.....	15. 52. 37'06	- 3'53															
	26	δ Scorpii	B	56'6	59'1	2'0	7'1	9'9	12'4	20'4	23'1	25'9	28'3	15. 54. 12'51	.....	13'30	.....	.....	.....	15. 54. 14'46	- 3'46															
	27	γ Herculis.....	B	19'8	22'3	25'1	30'1	32'9	35'5	43'1	45'8	48'2	50'9	15. 56. 35'40	.....	35'72	.....	.....	.....	15. 56. 36'88	- 3'06															
	28	β¹ Scorpii	B	...	11'7	14'1	19'6	22'1	24'8	32'6	35'1	38'0	...	15. 59. 24'78	.....	25'54	26'66	1'12	.....	15. 59. 26'70	- 3'44															
	29	κ Herculis.....R.	B	8'5	11'1	13'6	18'8	21'2	24'0	31'9	34'2	36'8	39'5	16. 3. 23'99	.....	24'68	.....	.....	.....	16. 3. 25'84	- 3'08															
	30	Piazzi XVI. 10...	B	19'2	21'7	24'4	29'8	32'5	35'1	...	...	...	...	16. 7. 35'07	.....	35'84	.....	.....	.....	16. 7. 37'00	- 3'51															
	31	Groomb. 795 S.P.	B	...	...	...	...	29'8	34'5	39'2	48'4	52'9	57'6	16. 8. 29'89	.....	31'22	.....	.....	.....	4. 8. 32'38	- 0'85															
	32	Groomb. 801 S.P.	B	6'7	10'4	14'8	18'9	31'3	35'5	39'6	47'8	52'0	56'6	16. 10. 31'32	.....	32'53	.....	.....	.....	4. 10. 33'69	- 0'94															
	33	ψ Ophiuchi	B	46'9	49'2	52'0	57'1	0'0	2'4	10'2	13'1	15'5	18'1	16. 18. 2'48	.....	3'24	.....	.....	.....	16. 18. 4'40	- 3'54															
	34	Oeltz. Arg. (N.) 16188	B	56'2	1'3	6'9	17'1	22'3	27'6	43'1	48'2	53'6	58'7	16. 21. 27'55	.....	26'97	.....	.....	.....	16. 21. 28'13	- 3'41															
	35	η Draconis	B	6'2	11'5	16'9	27'1	32'2	37'6	53'3	58'2	3'8	8'9	16. 22. 37'62	.....	37'03	.....	.....	.....	16. 22. 38'19	- 3'42															
	36	β Herculis	B	...	33'3	36'0	41'1	43'9	46'6	54'2	57'1	59'9	...	16. 25. 46'54	.....	46'81	.....	.....	.....	16. 25. 47'97	- 3'09															
	37	Piazzi XVI. 195..	B	2'9	14'5	26'2	49'1	1'0	12'7	47'0	58'3	10'0	21'6	16. 35. 12'44	.....	10'33	.....	.....	.....	16. 35. 11'49	- 4'71															
	38	ζ Herculis.....	W	6'2	9'1	12'1	17'9	20'8	23'8	32'3	35'3	38'1	41'1	16. 37. 23'70	.....	23'85	24'97	1'12	1'10	.....	.....															
	39	Lalande F. 2832..	B	...	...	...	...	...	7'5	50'1	4'1	18'9	32'7	16. 38. 7'70	.....	4'96	.....	.....	1'16	16. 38. 6'12	- 5'29															
	40	ε Scorpii	B	9'5	12'5	15'7	21'5	24'4	27'4	36'2	39'1	42'2	45'4	16. 43. 27'42	.....	28'39	.....	.....	.....	16. 43. 29'55	- 4'01															
	41	Lacaille 7047	B	28'1	31'1	33'9	39'9	42'9	45'8	54'4	57'3	0'1	3'2	16. 48. 45'70	.....	46'64	.....	.....	.....	16. 48. 47'80	- 4'01															
	42	κ Ophiuchi	W	31'5	34'0	36'2	41'4	44'0	46'3	54'0	56'2	58'9	1'3	16. 52. 46'40	.....	46'82	47'89	1'07	1'10	.....	.....															
	43	W. B. (2) XVI. 1616-7	B	41'3	44'1	46'9	52'2	54'9	57'9	6'0	8'7	11'4	14'1	16. 53. 57'78	.....	58'02	.....	.....	1'16	16. 53. 59'18	- 3'13															
	44	Groomb. 909 S.P.	B	...	...	...	...	...	34'5	39'6	49'1	54'0	58'6	16. 55. 30'02	.....	31'40	.....	.....	.....	4. 55. 32'56	- 0'85															
	45	Lalande 30976 ...	B	34'0	36'6	39'1	44'5	47'1	49'9	57'8	0'4	3'0	5'8	16. 57. 49'85	.....	50'61	.....	.....	.....	16. 57. 51'77	- 3'71															
	46	Piazzi XVI. 273..	B	21'6	24'1	26'9	32'0	34'8	37'5	45'2	47'8	50'5	53'2	16. 58. 37'39	.....	38'15	.....	.....	.....	16. 58. 39'31	- 3'71															
	47	η Ophiuchi	B	11'1	13'7	16'2	21'4	24'0	26'5	34'1	36'7	39'3	41'9	17. 4. 26'52	.....	27'22	28'33	1'11	.....	17. 4. 28'38	- 3'62															
	48	Carrington 2587..	B	12'1	29'1	47'5	23'0	40'9	59'2	...	...	...	...	17. 10. 58'80	.....	55'22	.....	.....	.....	17. 10. 56'38	- 5'87															
	49	Piazzi XVII. 31..	B	25'6	28'1	...	...	...	41'9	...	...	55'3	58'0	17. 11. 41'80	.....	42'61	.....	.....	.....	17. 11. 43'77	- 3'85															
	50	39 Ophiuchi	B	...	...	31'0	36'4	39'2	...	50'0	52'7	...	...	17. 11. 41'89	.....	42'70	.....	.....	.....	17. 11. 43'86	- 3'85															
	51	δ Ophiuchi	B	27'8	30'4	33'4	39'1	41'9	44'7	53'3	56'0	58'9	1'9	17. 20. 44'77	.....	45'67	.....	.....	.....	17. 20. 46'83	- 4'04															
	52	λ Herculis.....	B	17'3	20'0	22'9	28'1	31'0	33'8	42'0	44'8	47'6	50'2	17. 26. 33'80	.....	34'03	.....	.....	.....	17. 26. 35'19	- 3'15															
	53	Groomb. 990 S.P.	B	...	...	48'2	52'0	4'0	8'0	11'8	19'8	...	...	17. 30. 3'93	.....	5'08	.....	.....	.....	5. 30. 6'24	- 0'96															
	54	Carrington 789 S.P..	B	...	...	...	56'7	56'9	16'7	36'9	...	...	...	17. 34. 56'61	.....	1'60	.....	.....	.....	5. 35. 2'76	+ 1'90															

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 2 and 4, — 23^h 80 and — 23^h 80.

54. Observed in dark field with wires illuminated.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
																							h	m	s
June 26	1	μ Herculis.....	B	8.1	10.9	13.9	19.2	22.0	25.0	33.4	36.0	38.8	41.8	17. 42. 24.94	+ 1.03	25.14	26.37	1.23	1.16	17. 42. 26.30	- 3.13				
	2	Bradley 854 S.P..	B	46.2	50.4	54.9	58.9	12.0	...	...	...	...	...	17. 51. 11.74	(- 3.12)	12.97			[0.00]	5. 51. 14.13	- 0.99				
	3	Groomb.1045 S.P.	B	...	...	...	28.6	42.1	46.9	51.4	...	...	...	17. 51. 42.21	[+ 11.42]	43.52				5. 51. 44.68	- 0.96				
	4	Piazzi XVII. 312.	B	...	...	...	...	...	...	49.0	51.7	54.2	10.2	17. 55. 38.26		39.06				17. 55. 40.22	- 3.92				
	5	η Sagittarii	B	15.5	18.0	20.9	26.2	29.0	31.9	39.9	42.5	45.2	48.0	17. 57. 31.74		32.55				17. 57. 33.71	- 3.97				
	6	Carrington 2725..	B	...	...	...	59.5	16.9	34.1	24.9	...	...	...	18. 2. 34.02		30.61				18. 2. 31.77	- 5.25				
	7	Groomb.1109 S.P.	B	2.1	6.6	11.0	15.8	...	...	...	...	...	...	18. 7. 29.07		30.38				6. 7. 31.54	- 1.00				
	8	Groomb.1115 S.P.	B	...	...	...	33.1	45.1	49.1	53.2	...	...	...	18. 7. 45.09		46.26				6. 7. 47.42	- 1.04				
	9	16 Sagittarii	B	...	...	...	...	0.8	3.5	11.4	14.0	16.5	19.1	18. 9. 3.45		4.22				18. 9. 5.38	- 3.87				
	10	Groomb.1127 S.P.	B	15.5	19.9	24.1	28.5	42.0	46.6	50.8	59.8	4.1	8.5	18. 10. 41.94		43.24				6. 10. 44.40	- 1.01				
	11	η Serpentis	B	42.5	44.9	47.5	52.3	54.7	57.4	4.7	7.1	9.8	12.1	18. 15. 57.32		57.89	59.10	1.21		18. 15. 59.05	- 3.47				
	12	ϕ Draconis.....	B	32.0	39.8	47.6	2.9	10.8	18.2	41.5	49.1	56.8	4.1	18. 22. 18.35		17.14				18. 22. 18.30	- 3.53				
	13	B.D.+52° No.2225	B	38.2	42.1	46.5	54.4	58.2	2.7	14.8	18.8	22.7	26.9	18. 29. 2.57		2.31				18. 29. 3.47	- 3.07				
	14	Lalande 34541 ...	B	5.5	9.5	13.6	21.5	25.6	29.8	41.9	45.8	50.0	54.0	18. 30. 29.76		29.50				18. 30. 30.66	- 3.06				
	15	Piazzi XVIII. 173	B	...	...	...	...	50.2	56.3	14.1	20.0	26.0	32.0	18. 35. 56.39		55.62				18. 35. 56.78	- 3.23				
	16	Lalande F. (2) 29 S.P.	B	13.2	32.0	52.0	10.1	...	...	...	...	...	...	18. 36. 7.83		12.69				6. 36. 13.85	+ 1.03				
	17	Groomb.1227 S.P.	B	53.8	58.1	2.1	6.0	18.1	22.0	26.1	34.0	38.0	42.0	18. 45. 17.98		19.14				6. 45. 20.30	- 1.13				
	18	Piazzi XVIII. 225	B	28.6	31.4	34.0	39.4	42.0	44.9	52.9	55.5	58.1	0.9	18. 49. 44.80		45.60				18. 49. 46.76	- 3.97				
	19	Piazzi XVIII. 228	B	...	4.9	7.6	12.9	15.6	18.2	26.4	29.0	31.7	...	18. 50. 18.32		19.12				18. 50. 20.28	- 3.97				
	20	ϵ Sagittarii	B	55.8	58.2	1.0	6.2	8.9	11.7	19.4	22.0	24.7	27.5	18. 51. 11.57		12.34				18. 51. 13.50	- 3.90				
	21	Piazzi XVIII. 261	B	51.4	54.0	56.8	2.1	4.9	7.8	16.0	18.5	21.3	24.0	18. 56. 7.71		8.55				18. 56. 9.71	- 4.03				
	22	π Sagittarii	B	20.6	23.3	26.0	31.4	34.0	36.7	44.5	47.1	49.8	52.3	19. 3. 36.60		37.37				19. 3. 38.53	- 3.89				
	23	Piazzi XIX. 8 ...	B	...	...	...	...	...	...	26.2	29.5	32.6	35.9	19. 4. 16.86		16.90				19. 4. 18.06	- 2.99				
	24	Piazzi XIX. 27...	B	1.2	4.1	7.6	14.0	17.1	20.2	29.7	32.9	36.1	39.3	19. 7. 20.25		20.29				19. 7. 21.45	- 2.98				
	25	Groomb.1284 S.P.	B	58.7	2.6	6.5	10.6	22.7	26.8	30.9	38.9	42.9	47.0	19. 9. 22.72		23.89				7. 9. 25.05	- 1.20				
	26	W.B.(2) XIX. 292	B	40.0	43.3	46.5	53.3	56.5	59.8	9.5	12.7	16.0	19.4	19. 10. 59.73		59.72				19. 11. 0.88	- 2.97				
	27	Groombridge 2800	B	58.5	1.9	5.0	11.7	14.6	18.0	27.6	30.7	34.0	37.4	19. 12. 17.97		17.98				19. 12. 19.14	- 2.97				
	28	Bradley 1054 S.P.	B	...	...	...	...	20.3	24.9	29.2	37.8	42.0	46.4	19. 14. 20.35		21.62				7. 14. 22.78	- 1.20				
	29	19 Lyncis S.P. ...	B	...	...	...	...	21.8	26.1	30.4	38.9	43.3	47.6	19. 14. 21.60		22.87				7. 14. 24.03	- 1.20				
	30	Piazzi VII. 49 S.P.	B	...	...	...	...	23.1	27.5	32.0	40.2	44.8	49.1	19. 14. 23.02		24.29				7. 14. 25.45	- 1.20				
	31	Groombridge 2834	B	33.0	36.2	40.0	46.9	50.3	54.0	4.1	7.7	11.2	14.6	19. 20. 53.83		53.77				19. 20. 54.93	- 2.93				
	32	Radcliffe 4311 ...	B	42.0	45.2	48.9	55.7	59.1	2.7	13.2	16.6	20.0	23.5	19. 21. 2.72		2.66				19. 21. 3.82	- 2.93				
	33	Piazzi XIX. 130..	B	19.1	21.6	24.1	29.6	32.1	34.9	42.9	45.5	48.1	50.9	19. 23. 34.91		35.69				19. 23. 36.85	- 3.89				
	34	Piazzi XIX. 153..	B	...	42.1	45.1	50.6	53.5	56.2	4.5	7.3	10.1	...	19. 24. 56.21		56.41				19. 24. 57.57	- 3.02				
	35	ϵ Cygni	B	...	46.9	51.0	59.0	2.9	7.0	18.7	22.5	26.9	...	19. 27. 6.90		6.67				19. 27. 7.83	- 2.90				
	36	Groomb.1330 S.P.	B	...	...	...	...	...	22.1	26.8	35.4	40.0	44.2	19. 28. 17.79		19.07				7. 28. 20.23	- 1.25				
	37	Groomb.1333 S.P.	B	...	...	...	...	55.0	59.4	3.8	12.3	16.8	21.4	19. 29. 55.05		56.32				7. 29. 57.48	- 1.26				
	38	Groomb.1336 S.P.	B	...	...	...	44.0	56.7	0.9	5.0	...	...	...	19. 30. 56.61		57.84				7. 30. 59.00	- 1.27				
	39	Groomb.1364 S.P.	B	26.1	31.5	36.5	41.5	56.6	1.8	6.5	16.4	21.5	26.6	19. 39. 56.45		57.90				7. 39. 59.06	- 1.27				
	40	Groomb.1367 S.P.	B	37.4	42.1	47.4	52.2	7.4	12.1	17.3	27.4	32.4	37.6	19. 41. 7.28		8.73				7. 41. 9.89	- 1.28				
	41	Groomb.1373 S.P.	B	36.6	40.9	45.1	49.4	2.1	6.6	10.9	19.4	24.0	28.0	19. 43. 2.26		3.51				7. 43. 4.67	- 1.31				
	42	Groomb.1370 S.P.	B	...	51.8	...	7.8	31.6	39.4	48.0	...	11.4	...	19. 45. 31.59		33.80				7. 45. 34.96	- 1.10				
	43	Lalande 37813 ...	B	49.9	52.5	55.1	0.5	3.2	6.0	14.0	16.9	19.5	22.1	19. 48. 6.00		6.81				19. 48. 7.97	- 3.93				
	44	δ Sagittarii	B	...	22.1	25.0	30.3	33.2	36.0	44.2	46.9	49.9	...	19. 50. 35.98		36.84				19. 50. 38.00	- 4.03				
	45	ϵ Sagittarii	B	1.0	3.7	6.5	12.0	15.0	17.9	26.1	28.8	31.8	34.5	19. 56. 17.76		18.64	19.79	1.15		19. 56. 19.80	- 4.03				
	46	τ Aquilæ	B	50.1	52.5	55.1	0.0	2.5	5.0	12.3	14.9	17.4	20.0	19. 59. 5.00		5.45				19. 59. 6.61	- 3.20				
	47	δ 2 L.	B	24.9	27.5	30.2	36.0	38.6	41.5	49.8	52.5	55.3	58.1	20. 3. 41.47		42.28				20. 2. 33.40					
	48	W.B.XX.105 (1st Star)	B	...	...	8.4	13.3	15.9	...	25.5	28.1	...	...	20. 7. 18.33		18.86				20. 7. 20.02	- 3.29				
	49	W.B.XX.105 (2nd Star)	B	3.5	6.0	...	...	...	18.4	...	...	30.8	33.1	20. 7. 18.38		18.91				20. 7. 20.07	- 3.29				
	50	α Cygni	B	41.9	45.4	49.0	56.2	0.0	3.5	14.1	17.8	21.6	24.1	20. 10. 3.39		3.29				20. 10. 4.45	- 2.77				
	51	α Cygni	B	...	5.1	8.8	16.0	19.5	22.9	33.9	37.3	40.9	...	20. 10. 23.09		22.99				20. 10. 24.15	- 2.76				
	52	Groombridge 3138	B	42.4	46.0	49.5	56.3	59.9	3.3	13.9	17.2	20.9	24.2	20. 16. 3.39		3.32				20. 16. 4.48	- 2.75				
	53	B. F. 2775	B	48.0	50.5	53.1	58.0	0.4	2.9	10.3	12.9	15.4	17.9	20. 18. 2.96		3.43				20. 18. 4.59	- 3.18				
	54	Lalande 39332 ...	B	...	52.5	55.1	0.1	2.4	4.9	12.2	14.7	17.4	...	20. 22. 4.93		5.50				20. 22. 6.66	- 3.32				

Correction for passage of Semidiameter, No. 47, — 70".07.

4. Observed over wires V, W, X and Y.

16, 17. Cloudy.

47. Correction to R.A. on true meridian, + 0".03.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	s	h m s	s						
June 26	1	Groombridge 3185	B	...	...	...	...	...	...	44.0	48.0	52.2	56.2	20. 23. 31.43	+ 1.03	31.14			1.16	20. 23. 32.30	- 2.68	
	2	Groombridge 3188	B	...	...	...	28.6	32.9	37.0	49.6	...	...	...	20. 23. 37.07	(- 3.12)	36.78			[0.00]	20. 23. 37.94	- 2.68	
	3	A Ursæ Maj. S.P.	B	40.2	46.2	52.1	58.1	15.9	22.0	28.0	39.9	45.9	51.9	20. 25. 15.97	[+ 11.42]	17.66				8. 25. 18.82	- 1.47	
	4	Groombridge 3228	B	33.0	36.1	39.4	46.0	49.1	52.5	2.1	5.5	8.7	12.0	20. 30. 52.47		52.48				20. 30. 53.64	- 2.73	
	5	ν Capricorni	B	53.8	56.3	59.0	4.1	6.8	9.4	17.2	19.9	22.2	25.1	20. 34. 9.41		10.15				20. 34. 11.31	- 3.61	
	6	Groombridge 3292	B	46.1	49.3	52.6	58.9	2.0	5.1	14.6	17.8	20.9	24.1	20. 45. 5.17		5.22				20. 45. 6.38	- 2.70	
	7	μ Aquarii	B	49.2	51.8	54.1	59.1	1.7	4.1	11.8	14.1	16.7	19.1	20. 47. 4.19		4.83	5.99	1.16		20. 47. 5.99	- 3.35	
	8	32 Vulpeculæ	B	52.2	54.9	57.9	3.4	6.1	9.1	17.5	20.0	22.9	25.9	20. 50. 9.02		9.22	10.40	1.18		20. 50. 10.38	- 2.78	
June 28	9	⊙ 1 L.	L	58.9	1.4	4.1	9.5	12.0	14.9	22.9	25.7	28.3	31.3	6. 30. 14.93	(- 4.03)	23.96			0.96	6. 31. 24.92		
	10	⊙ 2 L.	L	16.3	19.1	21.9	27.1	29.9	32.5	40.6	43.1	45.4	48.8	6. 32. 32.55	[+ 12.01]				[0.00]			
	11	Groombridge 3233	B	40.8	46.1	51.8	2.8	8.3	14.0	...	...	...	...	16. 8. 14.03		13.20				16. 8. 14.16	- 3.44	
	12	Groombridge 794 S.P.	B	...	...	36.9	42.5	0.3	6.1	12.0	23.6	...	...	16. 9. 0.17		2.00				4. 9. 2.96	- 0.71	
	13	Antares	B	47.1	49.9	52.7	58.1	0.9	3.6	11.9	14.5	17.3	20.1	16. 23. 3.64		4.52	5.45	0.93		.....		
	14	Antares (E&E)	B	38.0	54.6	11.1	27.8	44.4	0.9	17.1	...	...	...	16. 23. 3.57		4.45	5.45	1.00		.....		
	15	λ Ophiuchi	B	26.9	29.4	32.0	36.9	39.3	41.8	49.1	51.6	54.0	56.5	16. 25. 41.77		42.26	43.25	0.99		.....		
	16	λ Ophiuchi (E&E)	B	21.4	36.1	51.0	5.9	20.8	35.5	50.3	...	...	...	16. 25. 41.73		42.22	43.25	1.03		.....		
	17	Piazzi XVII. 312	B	22.5	25.1	27.9	33.1	35.8	38.4	46.4	49.1	51.8	54.4	17. 55. 38.48		39.30				17. 55. 40.26	- 3.94	
	18	Piazzi XVII. 323	B	11.2	13.9	16.5	21.8	24.2	27.1	35.0	37.6	40.2	43.0	17. 56. 27.10		27.89				17. 56. 28.85	- 3.89	
	19	9 Sagittarii	B	15.8	18.3	21.2	26.5	29.3	32.0	40.2	42.9	45.5	48.1	17. 57. 32.01		32.87				17. 57. 33.83	- 3.99	
	20	72 Ophiuchi	CD	12.0	14.5	17.1	22.0	24.5	27.1	34.5	37.0	39.6	42.0	18. 2. 27.05		27.45	28.41	0.96	0.95	.....		
	21	δ Ursæ Minoris	B	26.9	35.9	44.1	52.0	1.8	17.7	26.0	34.9	42.4	50.8	18. 6. 9.25		58.90	59.97	1.07	0.96	.....		
	22	μ Sagittarii	CD	18.9	21.5	24.1	29.5	32.1	34.9	42.6	45.1	48.0	50.5	18. 7. 34.75		35.55	36.48	0.93	0.95	.....		
	23	16 Sagittarii	B	48.0	50.4	53.1	58.2	1.1	3.9	11.7	14.1	16.8	19.6	18. 9. 3.72		4.51			0.96	18. 9. 5.47	- 3.90	
	24	Piazzi XVIII. 24	B	18.1	20.9	23.9	29.4	32.0	34.9	43.1	45.8	48.5	51.4	18. 11. 34.83		35.71				18. 11. 36.67	- 4.10	
	25	η Serpentis	B	42.8	45.1	47.8	52.6	55.1	57.7	4.9	7.4	10.0	12.4	18. 15. 57.60		58.16	59.12	0.96		.....		
	26	Cephei 51 S.P.	CD	31.2	41.7	51.6	1.8	11.6	32.3	42.1	53.0	2.6	12.8	18. 51. 25.57		39.12	40.20	1.08	0.95	.....		
	27	α Equulei	AC	24.0	26.8	29.3	34.0	36.5	39.1	46.4	49.0	51.3	53.8	21. 10. 39.04		39.50	40.53	1.03	1.01	.....		
	28	ι Capricorni	AC	13.5	16.0	18.6	24.0	26.6	29.1	36.9	39.4	42.0	44.4	21. 16. 29.08		29.83	30.79	0.96		.....		
	29	β Aquarii	AC	51.8	54.0	56.5	1.6	4.0	6.6	14.0	16.5	19.1	21.4	21. 26. 6.57		7.17	8.20	1.03		.....		
	30	ξ Aquarii	AC	59.4	2.0	4.4	9.5	12.0	14.4	22.0	24.3	26.9	29.4	21. 32. 14.45		15.08	16.11	1.03		.....		
	31	42 Capricorni	AC	39.9	42.4	45.1	50.0	52.6	55.1	2.8	5.3	8.0	10.3	21. 35. 55.17		55.88				21. 35. 56.89	- 3.30	
32	δ 2 L.	AC	...	40.2	42.9	48.0	50.5	53.3	0.9	3.4	6.1	...	21. 47. 53.18		53.88				21. 46. 50.48			
33	Rigel	HF	...	19.1	21.8	26.5	29.2	31.7	39.0	41.6	44.1	...	5. 9. 31.65	+ 0.96 (- 3.57) [+ 10.84]	32.22	33.04	0.82	0.94 [- 0.06]	5. 9. 33.15	- 0.70		
June 29	34	⊙ 1 L.	HF	7.7	10.1	13.0	18.4	21.0	23.9	31.9	34.5	37.3	39.9	6. 34. 23.80		32.71				6. 35. 33.63		
	35	⊙ 2 L.	HF	25.1	27.9	30.5	35.8	38.4	41.1	49.3	51.9	54.6	57.1	6. 36. 41.20								
	36	Polaris S.P.	HF	23.8	38.1	44.8	51.5	59.7	7.5	15.7	22.9	33.2	40.1	13. 20. 6.36		33.02	36.43	3.41		1. 20. 33.93	+ 17.42	
	37	ζ Virginis	HF	...	...	...	...	...	...	32.0	34.5	36.9	39.5	13. 29. 24.67		25.14	25.99	0.85		13. 29. 26.05	- 2.44	
	38	f Boötis	HF	22.9	25.5	28.1	33.4	36.0	38.6	46.3	49.0	51.9	54.2	14. 21. 38.62		38.87	39.81	0.94		14. 21. 39.77	- 2.73	
	39	φ Virginis	HF	...	...	...	...	...	...	59.4	1.9	4.2	6.8	14. 22. 52.01		52.51				14. 22. 53.41	- 2.75	
	40	ρ Boötis	B	5.1	8.1	11.0	16.8	19.6	22.4	31.1	34.0	36.9	39.8	14. 27. 22.51		22.62	23.63	1.01	1.12	14. 27. 23.70	- 2.78	
	41	ζ Boötis	HF	...	...	...	...	...	...	20.1	22.6	25.3	27.8	14. 36. 12.54		12.86		0.94		14. 36. 13.76	- 2.78	
	42	ε² Boötis	HF	11.6	14.3	17.1	22.7	25.5	28.2	36.6	39.4	42.1	44.9	14. 40. 28.27		28.42	29.48	1.06		14. 40. 29.32	- 2.81	
	43	ξ Boötis	HF	...	24.0	26.8	31.9	34.5	37.1	45.0	47.6	50.1	...	14. 46. 37.16		37.41				14. 46. 38.31	- 2.83	
	44	β Ursæ Minoris	HF	...	...	...	...	...	...	32.9	41.9	51.3	0.7	14. 51. 5.08		3.42				14. 51. 4.32	- 4.05	
	45	Bradley 417 S.P.	HF	...	...	...	...	...	...	36.4	45.5	54.6	12.5	15. 0. 36.53		38.95				3. 0. 39.85	- 0.20	
	46	ι Libræ	HF	3.3	5.9	8.5	13.8	16.3	19.1	26.9	29.5	32.0	34.8	15. 6. 19.04		19.75	20.59	0.84		15. 6. 20.65	- 3.13	
	47	β Libræ	HF	11.0	13.5	16.1	21.0	23.6	26.1	33.5	36.0	38.5	41.1	15. 11. 26.06		26.63	27.57	0.94		15. 11. 27.53	- 3.05	
	48	Uranus	HF	25.1	27.6	30.1	35.5	38.1	40.6	48.1	50.9	53.6	56.0	15. 13. 40.59		41.28				15. 13. 42.18		
	49	ε Libræ	HF	20.0	22.5	25.2	30.0	32.6	35.2	42.8	45.2	47.9	50.2	15. 18. 35.18		35.76				15. 18. 36.66	- 3.10	
	50	μ Boötis	HF	...	...	...	29.4	32.5	35.6	44.9	48.1	51.5	54.5	15. 20. 35.71		35.71				15. 20. 36.61	- 2.96	
	51	β Coronæ	HF	17.3	20.1	23.0	28.6	31.5	34.2	42.9	45.6	48.5	51.4	15. 23. 34.34		34.46				15. 23. 35.36	- 2.94	
	52	θ Coronæ	HF	28.7	31.4	34.4	40.2	43.1	46.1	54.8	57.6	0.5	3.5	15. 28. 46.06		46.16				15. 28. 47.06	- 2.96	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 14 and 16, — 24.15 and — 24.15.
Correction for passage of Semidiameter, No. 32, — 64.43.

21. Observed over wire T with the transit-micrometer set to readings 34.600, 34.7300, 35.000, 35.200, 35.400, 35.800, 36.000, 36.200, 36.400, 36.600.
26. Observed over wire X with the transit-micrometer set to readings 36.600, 36.7400, 36.800, 36.900, 35.800, 35.9400, 35.200, 35.300, 34.800, 34.900.
32. Correction to R.A. on true meridian, + 0.02.
36. Observed over wire V with the transit-micrometer set to readings 36.236, 36.100, 36.053, 35.988, 35.922, 35.846, 35.777, 35.720, 35.620, 35.576.

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
June 29	1	ε Serpentis ...R.	HF	40.1	42.9	45.6	50.8	53.4	56.1	4.0	6.5	9.1	11.9	15.36.56.07	+ 0.96	56.76			0.94	15.36.57.66	- 2.99	
	2	κ Serpentis	HF	49.6	52.1	54.8	59.9	2.6	5.3	13.1	15.7	18.2	20.9	15.44.5.25	(- 3.57)	5.52			[- 0.06]	15.44.6.42	- 3.01	
	3	ξ ¹ Lupi	HF	58.6	1.4	4.5	10.1	13.4	16.2	25.2	28.1	31.1	34.0	15.50.16.29	[+ 10.84]	17.21				15.50.18.11	- 3.70	
	4	ξ ² Lupi	HF	59.4	2.0	5.2	11.3	14.0	17.1	26.1	28.9	31.8	34.9	15.50.17.10		18.02				15.50.18.92	- 3.70	
	5	γ Herculis.....R.	HF	19.6	22.1	24.9	30.1	32.6	35.3	43.1	45.7	48.2	50.9	15.56.35.28		35.98				15.56.36.88	- 3.05	
	6	κ Herculis.....	HF	9.1	11.7	14.2	19.6	22.0	24.7	32.2	35.1	37.7	40.1	16.3.24.67		24.95				16.3.25.85	- 3.07	
	7	Groomb. 779 S.P.	HF	...	...	...	...	...	...	...	20.9	51.1	6.4	21.1	16.8.50.83		54.68				4.8.55.58	+ 1.08
	8	Groomb. 794 S.P.	HF	25.8	31.3	37.1	43.0	0.5	...	...	...	...	...	...	16.9.0.48		2.11				4.9.3.01	- 0.76
	9	σ Serpentis	HF	...	...	40.2	45.1	47.6	50.1	57.6	0.0	...	...	...	16.16.50.12		50.58				16.16.51.48	- 3.22
	10	γ Herculis.....	HF	...	...	...	...	19.2	21.9	29.6	32.1	34.9	37.5	16.17.21.82		22.08	22.96	0.88			16.17.22.98	- 3.09
	11	Antares	W	47.2	50.0	52.8	58.0	0.8	3.6	11.9	14.5	17.4	20.1	16.23.3.66		4.45	5.45	1.00	1.07		16.23.5.48	- 3.71
	12	Antares ... (E&E)	W	38.4	54.8	11.4	27.8	44.4	1.0	17.4	...	...	...	...	16.23.3.67		4.46	5.45	0.99		.....	
	13	λ Ophiuchi	W	27.0	29.4	31.9	36.8	39.2	41.8	49.2	51.6	54.1	56.5	16.25.41.77		42.22	43.25	1.03			16.25.43.25	- 3.24
	14	λ Ophiuchi (E&E)	W	21.4	36.4	51.2	5.9	20.6	35.4	50.4	...	...	...	...	16.25.41.67		42.12	43.25	1.13		.....	
	15	Carrington 2498 ..	HF	...	...	16.1	9.5	36.2	2.1	...	...	...	...	...	16.31.3.70		57.84			0.94	16.30.58.74	- 7.73
	16	Piazzi XVI. 195 ..	HF	...	...	26.0	49.5	0.4	12.2	47.1	58.6	...	...	...	16.35.12.41		10.22				16.35.11.12	- 4.54
	17	Lalande F. 2832 ..	HF	...	...	...	39.0	53.6	7.9	50.1	...	...	...	...	16.38.7.79		4.98				16.38.5.88	- 5.07
	18	50 Herculis	HF	20.2	23.1	26.1	31.7	34.6	37.5	46.0	48.7	51.7	54.5	16.46.37.44		37.56				16.46.38.46	- 3.10	
	19	54 Herculis	HF	...	...	...	...	...	...	57.8	0.5	2.9	5.4	16.50.49.98		50.25				16.50.51.15	- 3.16	
	20	Lalande 30971 ...	HF	23.9	...	29.0	34.1	36.9	...	...	...	...	...	...	16.57.39.54		40.26				16.57.41.16	- 3.72
	21	Lalande 30976 ...	HF	...	...	...	...	...	...	58.2	0.6	3.4	5.9	16.57.50.23		50.95				16.57.51.85	- 3.72	
	22	α ¹ Herculis	HF	41.1	...	46.1	51.1	53.8	56.2	4.0	6.6	...	11.8	17.9.56.36		56.68	57.47	0.79			17.9.57.58	- 3.21
	23	Piazzi XVII. 31 ..	HF	...	...	...	...	...	...	...	53.1	55.6	58.2	17.11.42.16		42.93					17.11.43.83	- 3.87
	24	39 Ophiuchi	HF	26.0	28.8	31.6	36.5	...	...	...	...	...	...	17.11.42.24		43.01					17.11.43.91	- 3.87
	25	ρ ¹ Herculis.....	HF	48.9	52.0	55.1	1.4	...	...	...	...	...	...	17.20.7.54		7.55					17.20.8.45	- 3.11
	26	ρ ² Herculis.....	HF	...	...	...	...	4.7	7.9	17.2	20.1	23.2	26.2	17.20.7.81		7.82					17.20.8.72	- 3.11
	27	α Ophiuchi	C	53.1	55.4	58.1	2.9	5.4	8.1	15.8	18.2	20.8	23.4	17.30.8.14		8.48	9.62	1.14	1.21	.....		
	28	β Ophiuchi	C	6.9	9.3	12.0	16.9	19.4	21.9	29.1	31.9	34.1	36.9	17.38.21.86		22.28	23.40	1.12		.....		
	29	89 Herculis	C	58.7	1.4	4.2	9.7	12.4	15.1	23.4	26.0	28.9	31.9	17.51.15.20		15.37	16.60	1.23		.....		
	30	72 Ophiuchi	C	11.9	14.1	17.1	21.8	24.2	26.9	34.1	36.8	39.5	41.9	18.2.26.85		27.22	28.42	1.20		.....		
	31	δ Ursæ Minoris...	C	8.1	46.5	6.3	15.7	26.7	39.1	50.0	2.6	13.1	26.9	18.6.7.41		58.16					18.5.59.32	- 9.22
	32	16 Sagittarii ..	HF	...	...	...	...	...	...	11.8	14.3	17.0	19.7	18.9.3.89		4.61			0.94	18.9.5.50	- 3.90	
	33	η Serpentis	HF	42.8	45.3	48.0	52.8	55.2	57.8	5.0	7.6	10.1	12.5	18.15.57.73		58.24	59.13	0.89			18.15.59.13	- 3.50
	34	η Serpentis (E&E)	HF	36.8	51.7	56.8	21.5	36.5	51.6	6.4	...	...	...	18.15.57.38		57.88	59.13	1.25		.....		
	35	109 Herculis.....	HF	...	...	...	12.5	15.2	18.0	26.0	28.5	31.2	33.9	18.19.17.95		18.18					18.19.19.07	- 3.20
	36	Piazzi XVIII. 100	HF	...	...	...	...	16.1	18.9	27.1	29.9	32.6	35.2	18.25.19.02		19.23					18.25.20.12	- 3.17
	37	B.D.+52°No.2225	HF	38.9	42.8	47.0	54.9	59.0	3.1	15.2	19.3	23.1	27.3	18.29.3.10		2.78					18.29.3.67	- 3.08
	38	Carrington 938 S.P.	HF	...	...	14.1	33.1	31.5	51.3	12.1	49.1	...	...	...	18.33.31.68		36.56				6.33.37.45	+ 0.95
	39	Piazzi XVIII. 228	HF	...	...	8.0	13.4	16.0	18.6	27.0	29.6	...	...	...	18.50.18.80		19.56				18.50.20.45	+ 4.02
	40	ξ ¹ Sagittarii	HF	56.1	58.6	1.5	6.4	9.4	12.0	20.0	22.4	25.1	27.8	18.51.11.95		12.67					18.51.13.56	- 3.94
	41	Cephei 51 S.P. ...	HF	38.1	49.1	58.3	9.0	19.9	28.9	39.4	48.2	1.0	9.8	18.51.27.06		39.22					6.51.40.11	+ 5.06
	42	Piazzi VI.293 S.P.	HF	...	...	29.5	34.4	49.1	54.1	59.3	8.9	...	...	...	18.56.49.17		50.56				6.56.51.45	- 1.15
	43	Groomb. 1280 S.P.	HF	1.2	5.0	...	13.1	25.5	29.1	33.1	...	45.5	49.5	18.8.25.21		26.35					7.8.27.24	- 1.23
	44	W.B.(2) XIX.292	HF	40.6	44.0	47.3	53.8	57.0	0.2	10.0	13.3	16.7	20.0	19.11.0.32		0.25					19.11.1.14	- 3.00
	45	Lalande 36393-5 ..	HF	...	7.7	10.2	15.1	17.8	20.2	27.5	30.0	32.6	...	19.15.20.16		20.68					19.15.21.57	- 3.54
	46	Oeltz Arg. (N.) 19181	HF	21.1	25.5	29.9	37.5	42.4	46.9	58.0	2.4	...	...	19.17.46.18		45.84					19.17.46.73	- 2.97
	47	λ Ursæ Minoris...	HF	38.1	53.5	4.0	21.9	35.4	48.2	56.9	5.9	14.9	23.8	19.27.47.03		15.36					19.27.16.25	- 18.10
	48	μ Aquilæ	HF	47.7	50.0	52.5	57.5	59.9	2.2	10.0	12.2	14.9	17.5	19.29.2.46		2.86	3.82	0.96			19.29.3.75	- 3.32
	49	ι Aquilæ	HF	7.7	10.0	12.5	17.6	20.0	22.3	30.0	32.2	34.8	37.3	19.31.22.46		22.95					19.31.23.84	- 3.46
	50	Radcliffe 4476 ...	HF	...	...	...	52.1	26.5	...	44.2	17.8	...	...	19.35.1.40		53.88					19.34.54.77	- 5.86
	51	Radcliffe 4489 ...	HF	...	...	...	41.0	15.1	50.0	33.0	...	...	...	19.36.50.11		42.60					19.36.43.49	- 5.92
	52	β Aquarii	B	51.8	54.2	...	...	...	...	14.1	16.5	19.1	21.6	21.26.6.68		7.22	8.23	1.01	1.12		21.26.8.29	- 3.21
	53	38 Capricorni ...	B	50.0	52.6	55.2	0.3	3.1	5.9	13.6	16.2	18.9	21.7	21.29.5.78		6.50					21.29.7.57	- 3.53
	54	Piazzi IX.112 S.P.	B	25.6	...	51.9	3.2	...	...	...	30.0	42.9	55.8	21.33.40.61		43.88					9.33.44.95	- 1.80

Corrections to the times by Hardy for reduction to Sideral Standard, applied to form Concluded Transit, Nos. 12, 14, and 34, — 24^h 25' : — 24^h 25' : and — 24^h 25'.

20, 21. Very faint.

22, 23, 24, 29, 47, 51, 52, 54. Cloudy.

31. Observed over wire T with the transit-micrometer set to readings 34^r 195, 35^r 090, 35^r 600, 35^r 795, 36^r 080, 36^r 371, 36^r 579, 36^r 909, 37^r 169, 37^r 489.

41. Observed over wire X with the transit-micrometer set to readings 37^r 660, 37^r 450, 37^r 290, 37^r 076, 36^r 855, 36^r 700, 36^r 457, 36^r 295, 36^r 046, 35^r 857.

46. Observed in dark field with wires illuminated.

47. Observed over wire T with the transit-micrometer set to readings 34^r 240, 34^r 360, 34^r 410, 34^r 536, 34^r 660, 34^r 755, 34^r 800, 34^r 873, 34^r 943, 34^r 995.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	[Azimuth].							
h m s																							
s																							
June 29	1	Groombridge 3544	B	...	...	...	...	...	...	31.1	35.2	39.7	43.9	21. 37. 18.47	+ 0.96	18.11			1.12	21. 37. 19.18	- 2.44		
	2	Groombridge 3559	B	...	...	...	...	...	...	42.1	53.9	57.9	1.7	5.8	21. 39. 41.92	(- 3.57)	41.62		[- 0.06]	21. 39. 42.69	- 2.45		
	3	Groombridge 1579 S.P.	B	36.8	42.9	49.1	55.1	13.3	19.6	25.8	38.0	44.0	50.1	21. 42. 13.41	[+ 10.84]	15.11				9. 42. 16.18	- 1.90		
	4	14 Pegasi	B	59.2	2.0	4.7	...	...	...	...	27.4	30.1	33.1	21. 45. 16.11		16.23				21. 45. 17.30	- 2.64		
	5	Bradley 2871	B	54.5	58.8	2.9	11.0	15.5	19.5	31.9	...	...	44.2	21. 51. 19.48		19.14				21. 51. 20.21	- 2.40		
	6	Piazzi XXI. 360	B	12.0	17.9	23.2	34.0	39.5	45.0	1.3	6.7	12.2	17.7	21. 53. 45.00		44.29				21. 53. 45.36	- 2.29		
	7	18 Pegasi	B	...	...	...	...	...	...	57.7	5.1	7.5	10.0	21. 54. 57.64		58.04				21. 54. 59.11	- 2.89		
	8	Groombridge 3640	B	...	...	...	...	...	22.7	26.4	37.7	41.5	45.2	21. 56. 26.54		26.34				21. 56. 27.41	- 2.41		
	9	15 Cephei	B	3.3	8.0	13.0	...	...	...	...	51.6	56.6	1.3	22. 0. 32.34		31.81				22. 0. 32.87	- 2.29		
	10	Piazzi XX. 401	B	22.0	26.8	31.6	...	...	...	...	10.4	15.2	20.1	22. 0. 51.06		50.53				22. 0. 51.59	- 2.29		
	11	Oeltz Arg. (N.) 23355	B	26.0	31.0	...	...	...	...	...	...	19.3	24.2	22. 0. 55.17		54.64				22. 0. 55.70	- 2.29		
	12	e Aquarii	B	...	...	...	...	...	...	...	15.4	17.9	20.2	35.6	22. 5. 5.29		5.91				22. 5. 6.97	- 3.14	
	13	Bradley 2934	B	...	...	...	...	...	...	...	38.3	46.1	54.1	2.0	22. 8. 15.14		13.84				22. 8. 14.90	- 2.09	
	14	θ Aquarii	B	...	9.7	12.1	17.1	19.5	22.0	29.6	32.0	34.5	...	22. 11. 22.08		22.65	23.75	1.10			22. 11. 23.71	- 3.04	
	15	ρ Aquarii	B	30.0	32.3	34.9	39.9	42.3	44.9	52.4	54.9	57.5	0.0	22. 14. 44.93		45.50					22. 14. 46.56	- 3.02	
	16	8 Lacertæ	B	56.6	59.7	...	...	...	...	15.8	...	...	31.6	22. 31. 15.73		15.71					22. 31. 16.77	- 2.36	
	17	Bradley 2981	B	...	...	3.1	9.5	12.7	...	25.4	28.5	...	...	22. 31. 15.88		15.86					22. 31. 16.92	- 2.36	
	18	γ L.	B	...	...	...	19.9	22.2	24.9	32.6	35.1	37.6	40.2	22. 34. 24.93		25.50					22. 34. 24.06	- 2.36	
	19	ζ Pegasi	B	2.6	5.1	7.8	12.5	15.1	17.5	25.1	27.6	30.1	32.6	22. 36. 17.62		17.99	19.09	1.10			22. 36. 19.05	- 2.64	
	20	η Pegasi	B	51.9	54.4	57.5	3.0	6.0	8.7	17.3	20.0	22.9	25.9	22. 38. 8.79		8.91					22. 38. 9.97	- 2.42	
	21	Piazzi XXII. 241	B	40.8	43.3	46.0	51.1	53.5	56.1	4.0	6.3	9.1	11.6	22. 47. 56.21		56.50					22. 47. 57.56	- 2.53	
	22	δ Aquarii	B	53.7	56.1	58.8	4.0	6.4	9.1	16.7	19.3	22.0	24.5	22. 49. 9.09		9.77					22. 49. 10.83	- 2.95	
	23	Fomalhaut	B	38.3	41.3	44.1	49.9	52.6	55.6	4.1	6.9	9.9	12.8	22. 51. 55.58		56.43	57.43	1.00			22. 51. 57.49	- 3.21	
	24	Bradley 3058	B	21.4	32.9	44.1	55.4	7.1	29.3	41.1	52.2	4.1	15.3	22. 55. 18.29		13.45					22. 55. 14.51	- 0.72	
	25	β Pegasi	B	28.2	31.1	33.9	39.4	42.2	45.1	53.4	56.0	59.0	1.7	22. 58. 45.03		45.18					22. 58. 46.24	- 2.36	
	26	α Pegasi	B	20.5	23.1	25.7	30.7	33.2	35.9	43.5	46.0	48.6	51.2	22. 59. 35.86		36.18	37.25	1.07			22. 59. 37.24	- 2.49	
	27	2 Cassiopeie	B	50.0	54.5	59.5	8.9	13.7	18.3	32.7	37.4	42.1	47.1	23. 5. 18.47		17.95					23. 5. 19.01	- 1.97	
	28	Bradley 3084	B	34.7	38.6	42.9	50.8	55.1	59.3	11.3	15.2	19.9	23.5	23. 11. 59.10		58.78					23. 11. 59.84	- 2.03	
	29	Bradley 3125	B	11.4	18.4	26.0	40.0	47.1	54.6	15.9	22.8	30.1	37.1	23. 22. 54.41		53.28					23. 22. 54.34	- 1.63	
	30	ι Andromedæ	B	42.9	46.1	49.8	56.3	59.8	3.1	13.1	16.4	19.9	23.2	23. 33. 3.09		3.01					23. 33. 4.07	- 2.05	
	31	κ Andromedæ	B	57.5	0.9	4.5	11.1	14.6	18.1	28.2	31.6	35.1	38.5	23. 35. 18.04		17.93					23. 35. 18.99	- 2.03	
	32	6 Cassiopeie	B	16.1	21.2	26.6	37.0	42.1	47.3	2.9	8.0	13.2	18.5	23. 43. 47.34		46.70					23. 43. 47.76	- 1.72	
	33	ω Piscium	B	44.1	46.6	49.1	54.0	56.5	59.1	6.4	8.9	11.4	13.9	23. 53. 59.02		59.42	0.46	1.04			23. 54. 0.48	- 2.29	
	34	ω Piscium. (E&E)	B	38.6	53.5	8.4	23.2	38.1	53.0	8.0	...	...	...	23. 53. 58.95		59.35	0.46	1.11			.....	.....	
	35	9 Cassiopeie	B	...	...	...	...	...	...	14.1	19.6	24.6	55.8	23. 58. 53.53		52.89					23. 58. 53.95	- 1.64	
	36	α Andromedæ	B	...	...	50.2	55.9	58.7	1.4	10.0	12.6	...	...	0. 3. 1.50		1.64	2.69	1.05	1.06		0. 3. 2.70	- 2.07	
	37	β Cassiopeie	B	...	...	...	29.1	34.0	38.5	52.9	57.6	2.1	7.1	0. 3. 38.68		38.17					0. 3. 39.23	- 1.72	
	38	γ Pegasi	B	38.1	40.6	43.2	48.3	50.9	53.6	1.1	3.6	6.1	8.9	0. 7. 53.46		53.78	54.90	1.12			0. 7. 54.84	- 2.15	
	39	γ Pegasi. (E&E)	B	31.9	47.1	2.4	17.8	33.1	48.4	3.7	...	...	...	0. 7. 53.46		53.78	54.90	1.12			.....	.....	
	40	β Ceti	W	7.1	9.7	...	17.4	20.0	22.6	30.3	...	35.6	38.1	0. 38. 22.63		23.33	24.32	0.99	1.01		0. 38. 24.34	- 2.19	
	41	β Andromedæ	W	37.0	40.6	43.1	49.0	52.0	55.1	4.0	7.1	...	...	1. 3. 55.08		55.13	56.18	1.05			1. 3. 56.14	- 1.75	
	42	Polaris	W	39.9	51.2	3.0	25.6	37.4	23.1	35.0	58.1	10.2	20.9	1. 21. 0.44		34.58	36.88	2.30			1. 20. 35.59	+ 16.97	
June 30	43	⊙ i L.	S	43.6	59.9	...	...	...	32.0	40.1	42.8	...	...	6. 38. 32.09	(- 4.07)	41.04			0.86	6. 39. 41.88	.....		
	44	⊙ 2 L.	S	33.4	36.0	38.6	...	...	...	...	...	0.6	3.1	38.0	6. 40. 49.62				[- 0.08 ]	.....	.....		
	45	Pollux	S	40.4	43.5	46.1	...	...	...	...	...	8.5	11.5	14.2	7. 38. 57.40		57.50	58.31	0.81		7. 38. 58.33	- 1.17	
	46	α Hydræ	S	...	15.7	18.2	23.1	25.7	28.1	35.7	38.1	40.7	...	9. 22. 28.18		28.73	29.54	0.81			9. 22. 29.56	- 0.97	
	47	δ Leonis	S	19.5	22.1	24.9	30.0	32.9	35.5	43.4	46.1	48.9	51.5	11. 8. 35.51		35.72	36.51	0.79			11. 8. 36.54	- 1.84	
	48	δ Virginis	S	8.0	10.4	12.9	...	...	...	...	...	32.6	35.1	37.7	12. 50. 22.80		23.20	24.05	0.85			12. 50. 24.02	- 2.21
	49	α Canum Venaticum	S	...	55.6	58.9	5.1	8.2	11.5	21.0	24.1	27.4	...	12. 51. 11.51		11.44					12. 51. 12.26	- 2.45	
	50	Spica	S	28.6	31.2	33.8	38.6	41.2	43.7	51.2	53.8	56.2	58.9	13. 19. 43.74		44.33	45.13	0.80			13. 19. 45.15	- 2.36	
	51	Polaris S.P.	S	57.1	14.9	21.1	35.1	43.2	18.0	55.8	4.1	16.8	39.7	13. 20. 8.34		36.20	37.34	1.14			1. 20. 37.02	+ 16.51	
	52	μ Ophiuchi	S	58.7	1.1	3.6	...	...	...	13.9	...	23.6	26.1	17. 32. 13.68		14.23					17. 32. 15.03	- 3.56	
	53	β Ophiuchi	S	7.2	9.8	12.1	17.1	19.8	22.2	29.5	32.1	34.6	37.3	17. 38. 22.19		22.58	23.41	0.83			17. 38. 23.38	- 3.37	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 34 and 39, — 24.33 and — 24.33.
Correction for passage of Semidiameter, No. 18, — 62.52.

- 4, 42. Cloudy.
18. Correction to R.A. on true meridian, + 0.02.
24. Observed over wire T with the transit-micrometer set to readings 33.100, 33.600, 34.100, 34.600, 35.100, 36.100, 36.600, 37.100, 37.600, 38.100.
41. Faint; cloudy.
42. Observed over wire T with the transit-micrometer set to readings 34.900, 35.000, 35.100, 35.300, 35.400, 35.800, 35.900, 36.100, 36.200, 36.300.
43. Observed over wires M, N, T, U and V.
44. Observed over wires O, P, Q, V, W and Z.
46, 47. Very diffused and unsteady.
50, 51. Very unsteady.
51. Observed over wire V with the transit-micrometer set to readings 36.478, 36.323, 36.270, 36.144, 36.079, 35.785, 35.443, 35.367, 34.749, 34.541.

MONTH as Determined 1896	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
s	s	s	s	s	s	s	s	s	s	h m s	s											
June 30	1	3 Sagittarii	S	46.5	49.3	52.0	57.7	0.4	3.3	11.7	14.3	17.3	20.1	17.41. 3.29	+ 0.96	4.10			0.86	17.41. 4.90 - 4.08		
	2	Piazzi XVII. 277..	S	34.6	37.2	40.0	44.9	47.8	50.1	58.1	0.7	3.3	6.0	17.49. 50.30	(- 4.07)	50.99			[- 0.08]	17.49. 51.79 - 3.84		
	3	Piazzi XVII. 312..	S	22.2	25.1	28.1	...	...	...	...	49.6	52.1	54.7	17.55. 38.66	[+ 10.84]	39.41				17.55. 40.21 - 3.96		
	4	Lalande 33419 ...	S	...	...	...	...	...	...	44.2	56.2	8.4	21.0	17.56. 7.74		5.24				17.56. 6.04 - 4.32		
	5	Carrington 2725..	S	...	...	...	0.1	17.3	34.8	...	42.0	59.8	16.5	18. 2. 34.60		30.92				18. 2. 31.72 - 5.08		
	6	δ Ursæ Minoris...	S	39.7	50.5	10.4	20.0	34.2	41.9	56.7	2.9	16.9	22.6	18. 6. 9.20		59.59				18. 6. 0.39 - 9.12		
	7	24 Ursæ Minoris..	S	...	...	...	...	...	...	57.4	44.1	31.3	17.7	18. 9. 36.69		25.70				18. 9. 26.50 - 9.92		
	8	B.D. + 23° No. 3342	S	24.0	26.5	29.4	34.6	37.5	40.0	48.1	50.9	53.6	56.2	18. 23. 40.11		40.28				18. 23. 41.08 - 3.18		
	9	Piazzi XVIII. 100	S	...	5.8	8.3	13.8	16.3	19.2	27.4	30.0	32.6	...	18. 25. 19.21		19.38				18. 25. 20.18 - 3.18		
	10	Piazzi XVIII. 132	S	56.6	59.5	2.1	7.4	10.1	12.9	20.9	23.6	26.5	29.1	18. 31. 12.90		13.07				18. 31. 13.87 - 3.18		
	11	α Lyræ	S	8.2	11.5	14.6	...	...	27.3	...	40.0	43.1	46.2	18. 33. 27.30		27.24	28.10	0.86		18. 33. 28.04 - 3.09		
	12	2 Aquilæ	S	22.0	24.5	27.0	32.0	34.4	37.0	44.4	47.0	49.6	52.0	18. 36. 37.01		37.57	38.35	0.78		18. 36. 38.37 - 3.66		
	13	ε Lyræ (as one mass)	S	36.8	40.0	...	...	...	...	...	...	12.0	15.2	18. 40. 56.03		55.95				18. 40. 56.75 - 3.06		
	14	ε Lyræ (as one mass)	S	...	...	...	51.9	55.0	58.2	8.0	...	...	...	18. 40. 58.31		58.23				18. 40. 59.03 - 3.07		
	15	Cephei 51 S.P. ...	S	15.6	23.2	31.5	48.1	52.7	5.4	12.1	27.1	32.7	45.1	18. 51. 26.71		39.39				6. 51. 40.19 + 5.01		
	16	Lalande 35695 ...	S	26.0	...	...	...	55.3	1.0	...	...	12.0	47.0	18. 56. 1.33		0.46				18. 56. 1.26 - 3.16		
	17	20 Aquilæ	S	...	...	...	59.6	2.0	4.5	12.0	...	...	...	19. 7. 4.55		5.10				19. 7. 5.90 - 3.63		
	18	κ Cygni	S	19.9	23.8	28.0	36.1	40.1	44.3	56.7	1.0	5.0	9.1	19. 14. 44.44		44.06				19. 14. 44.86 - 2.99		
	19	Groombridge 2834	S	33.7	37.1	40.5	...	...	...	...	8.3	11.9	14.9	19. 20. 54.43		54.26				19. 20. 55.06 - 2.98		
	20	Radcliffe 4311 ...	S	...	...	...	56.2	59.9	3.3	...	...	20.6	24.0	19. 21. 3.29		3.12				19. 21. 3.92 - 2.98		
	21	Lalande F. 3268..	S	...	...	...	52.4	14.0	...	38.0	58.8	20.2	40.8	19. 28. 35.12		30.45				19. 28. 31.25 - 4.64		
	22	γ Aquilæ	S	5.9	8.4	11.0	16.0	18.5	21.0	28.5	30.9	33.5	36.0	19. 41. 20.99		21.33	22.13	0.80		19. 41. 22.12 - 3.26		
	23	δ Sagittæ	S	31.4	34.0	36.7	41.9	44.5	47.0	55.0	57.5	0.1	2.7	19. 42. 47.11		47.36				19. 42. 48.15 - 3.15		
July 1	24	⊙ 1 L.	EB	24.1	26.9	29.8	34.9	...	...	...	...	...	6.42. 40.37	[+ 9.83]	49.05			0.86	6.43. 49.89			
	25	⊙ 2 L.	EB	41.4	44.0	46.5	...	...	...	...	...	...	6.44. 57.42		40.07	40.93	0.86	[- 0.06]				
	26	ε Serpentis	EB	...	27.2	30.0	34.7	37.1	39.7	47.1	49.7	52.1	...	15.45. 39.72		41.17	41.96	0.79		.....		
	27	γ Serpentis	EB	...	28.1	30.8	35.8	38.2	40.9	48.6	51.1	53.8	...	15.51. 40.94		51.06				15.57. 51.88 - 3.02		
	28	π Serpentis	EB	34.8	37.5	40.1	45.4	48.1	50.9	58.9	1.7	4.4	7.0	15.57. 50.91		14.22				16. 5. 15.04 - 3.68		
	29	Groombridge 2319	EB	30.9	38.2	46.1	0.5	8.0	15.5	...	...	...	...	16. 5. 15.45		56.04	56.86	0.82		16. 16. 51.47 - 3.22		
	30	δ Ophiuchi	EB	40.8	43.1	45.8	50.5	53.1	55.7	3.0	5.4	8.0	10.4	16. 8. 55.60		50.65				.....		
	31	σ Serpentis	EB	35.5	38.0	40.3	45.3	47.7	50.2	57.6	0.1	2.6	5.1	16. 16. 50.26		58.40	59.68	1.28		.....		
	32	δ Ursæ Minoris...	EB	37.7	54.4	13.9	21.7	30.7	48.4	...	...	...	...	18. 6. 7.45						.....		
July 2	33	Polaris S.P.	W	26.0	47.1	54.0	59.4	3.7	9.6	15.2	22.3	7.1	...	13.20. 13.56	(- 3.44)	37.96	39.25	1.29	0.88	.....		
	34	η Ursæ Majoris...	W	...	...	...	21.0	24.9	28.7	40.1	...	...	...	13.43. 28.72		28.49			[- 0.04]	13.43. 29.35 - 2.72		
	35	η Boötis	W	...	...	...	40.1	42.9	45.5	53.2	55.9	58.5	1.1	13.49. 45.47		45.70	46.50	0.80		.....		
	36	α Coronæ	AC	45.6	2.2	5.0	...	...	...	...	32.9	35.8	52.1	15.30. 18.96		19.09	19.97	0.88	0.90	.....		
	37	α Serpentis	AC	55.6	58.0	0.6	5.5	8.0	10.5	18.0	20.4	22.9	25.4	15.39. 10.51		10.86	11.71	0.85		.....		
	38	ζ Ophiuchi	W	12.8	...	17.9	22.9	25.5	27.9	35.4	38.0	...	43.0	16.31. 27.95		28.50	29.27	0.77	0.88	.....		
	39	δ Ursæ Minoris...	W	25.9	33.8	42.1	50.1	59.8	15.2	23.8	32.6	40.6	48.9	18. 6. 7.28		58.81	59.59	0.78		.....		
	40	24 Ursæ Minoris..	W	29.4	39.6	48.9	58.8	8.2	27.3	36.0	45.2	54.9	4.4	18. 9. 35.88		26.29				18. 9. 27.14 - 9.71		
	41	Lalande F. 2963..	W	...	...	...	...	...	...	41.1	3.1	26.8	49.7	18. 9. 30.99		26.45				18. 9. 27.30 - 5.90		
	42	α Lyræ	W	...	11.3	14.5	20.9	24.1	27.2	36.6	39.8	43.1	...	18.33. 27.22		27.20	28.11	0.91		.....		
	43	2 Aquilæ	W	22.0	24.5	27.1	32.0	34.4	37.1	44.4	...	...	...	18.36. 37.01		37.54	38.37	0.83		.....		
	44	Groombridge 2742	W	45.3	50.9	56.1	...	...	...	...	38.9	43.7	49.1	18.56. 17.38		16.77				18.56. 17.62 - 3.12		
	45	ζ Aquilæ	W	...	...	...	34.6	37.2	39.9	47.5	...	...	...	19. 0. 39.82		40.11	41.04	0.93		.....		
	46	ψ Sagittarii	H	56.1	59.0	1.8	7.1	9.9	12.7	20.9	23.6	26.2	29.1	19. 9. 12.67		13.38	13.91	0.53	0.56†	.....		
	47	ω Aquilæ	H	43.4	46.0	48.2	53.4	56.0	58.7	...	...	...	...	19.12. 58.51		58.83	59.36	0.53		.....		
	48	Lalande 36393-5..	W	...	...	...	...	...	...	27.7	30.1	32.6	35.1	19.15. 20.28		20.75			0.88	19.15. 21.60 - 3.58		
July 3	49	⊙ 1 L.	HA	39.6	42.1	44.9	50.3	52.9	55.8	3.8	6.6	9.2	11.9	6.50. 55.74	(- 4.24)	4.51			0.84	6.52. 5.33		
	50	⊙ 2 L.	HA	56.9	59.4	2.1	7.6	10.2	12.9	21.1	23.8	26.4	29.1	6.53. 12.98	[+ 10.20]	50.63	51.44	0.81	[- 0.06]	.....		
	51	Regulus	HA	...	...	...	...	...	50.5	...	5.2	20.6	36.0	10. 2. 50.36						.....		

1. Very diffused and cloudy. 2. Very diffused. 3, 4, 16, 21. Observed in dark field with wires illuminated.
6. Very Unsteady. Observed over wire U with the transit-micrometer set to readings 34° 773, 35° 030, 35° 521, 35° 759, 36° 079, 36° 265, 36° 622, 36° 762, 37° 110, 37° 238.
- 13, 14, 15, 16, 17, 26, 29, 35. Very faint; cloudy.
15. Observed over wire S with the transit-micrometer set to readings 35° 656, 35° 493, 35° 357, 35° 001, 34° 918, 34° 643, 34° 516, 34° 271, 34° 134, 33° 001.
16. Observed over wires O, S, T, Y and Z. 18, 19, 20, 24, 25, 27, 28, 32, 38, 45, 48, 49, 50. Cloudy.
32. Observed over wire R with the transit-micrometer set to readings 34° 036, 34° 412, 34° 895, 35° 082, 35° 300, 35° 733.
33. Very cloudy. Observed over wire T with the transit-micrometer set to readings 35° 500, 35° 300, 35° 250, 35° 200, 35° 150, 35° 100, 35° 050, 35° 000, 34° 600.
36. Observed over wires N, O, P, W, X and Y.
39. Observed over wire T with the transit-micrometer set to readings 34° 600, 34° 800, 35° 000, 35° 200, 35° 400, 35° 600, 36° 000, 36° 200, 36° 400, 36° 600.
40. Observed over wire X with the transit-micrometer set to readings 34° 600, 34° 800, 35° 000, 35° 200, 35° 400, 35° 600, 36° 000, 36° 200, 36° 400, 36° 600.
51. Very cloudy. Observed over wires T, X, Y and Z.

1898G0AMM.58A...1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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MONTH and DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
July 4	1	ζ Ophiuchi	CD	12.9	15.5	18.0	22.9	25.5	28.0	35.6	38.1	40.6	43.0	16. 31. 28.03	+ 0.96	28.55	29.27	0.72	0.74 [- 0.06 ]	.....		
	2	Piazzì XVI. 195..	S	3.9	15.1	26.9	50.0	1.7	13.3	47.8	59.4	11.0	22.5	16. 35. 13.27	(- 5.42)	10.57			0.62	16. 35. 11.15	- 4.23	
	3	Lalande F. 2832 ..	S	42.9	57.0	11.8	39.8	54.0	8.3	51.0	4.8	19.6	33.6	16. 38. 8.42	[+ 10.56]	5.03				16. 38. 5.61	- 4.68	
	4	ε Herculis.....	S	...	...	...	...	...	18.6	26.1	28.6	31.1	33.8	16. 45. 18.71		18.99				16. 45. 19.57	- 3.25	
	5	ι Ophiuchi.....	S	52.5	55.0	57.6	2.5	5.1	7.6	15.1	17.6	20.0	22.6	16. 49. 7.58		7.84				16. 49. 8.42	- 3.22	
	6	57 Herculis.....	S	0.9	3.6	6.2	11.9	14.5	17.3	25.6	28.2	31.1	33.8	16. 53. 17.34		17.38				16. 53. 17.96	- 3.12	
	7	W. B. (2) XVI. 1616-7	S	42.1	44.9	47.6	53.1	56.0	58.9	6.9	9.6	12.4	15.1	16. 53. 58.69		58.73				16. 53. 59.31	- 3.12	
	8	11 Camelopardi S.P...	S	36.6	41.3	46.1	50.9	5.1	10.0	14.8	24.1	29.1	33.9	16. 57. 5.14		6.54				4. 57. 7.12	- 1.14	
	9	12 Camelopardi S.P...	S	39.7	44.5	49.2	54.0	8.2	13.1	18.0	27.5	32.3	37.1	16. 57. 8.31		9.71				4. 57. 10.29	- 1.14	
	10	Piazzì IV. 317 S.P.	S	...	...	...	...	21.2	33.1	44.9	8.1	20.1	32.0	17. 13. 21.24		24.64				5. 13. 25.22	- 0.11	
	11	σ Ophiuchi	CD	38.9	53.9	8.7	...	...	...	...	38.4	53.3	8.1	17. 21. 23.57		23.90	24.57	0.67	0.74	.....		
	12	α Ophiuchi	AC	53.6	56.0	58.8	3.6	6.1	8.5	16.1	18.7	21.2	23.8	17. 30. 8.66		8.89	9.63	0.74	0.77†	.....		
	13	μ Ophiuchi	S	59.1	1.5	4.0	...	...	14.0	...	24.0	26.4	28.9	17. 32. 14.01		14.49			0.62	17. 32. 15.07	- 3.58	
	14	ι Herculis.....	S	13.1	16.8	20.3	27.5	31.0	34.5	45.3	48.9	52.2	56.0	17. 36. 34.60		34.26				17. 36. 34.84	- 3.10	
	15	μ Herculis.....	S	9.1	11.9	14.6	20.1	22.9	25.8	34.1	36.9	39.8	42.5	17. 42. 25.80		25.81	26.39	0.58		17. 42. 26.39	- 3.15	
	16	Piazzì XVII. 255	S	3.5	6.1	8.9	14.0	16.5	19.3	27.1	29.6	32.3	35.0	17. 44. 19.26		19.40				17. 44. 19.98	- 3.23	
	17	Bradley 2245	S	25.0	28.1	31.6	38.0	41.1	44.3	54.0	57.2	0.5	3.8	17. 48. 44.39		44.18				17. 48. 44.76	- 3.11	
	18	ο Herculis.....	S	58.0	...	20.6	26.0	28.9	31.8	...	...	...	5.5	18. 3. 31.78		31.77				18. 3. 32.34	- 3.17	
	19	Groomb. 1151 S.P.	S	4.4	16.0	28.3	40.0	16.0	28.1	40.0	3.6	15.9	27.8	18. 24. 15.89		19.33				6. 24. 19.90	- 0.31	
	20	41 Camelopardi S.P.	S	...	...	...	37.7	53.3	58.9	4.0	...	...	18. 30. 53.43		54.97					6. 30. 55.54	- 1.16	
	21	α Lyrae	S	...	...	14.9	21.4	24.4	...	37.2	40.1	43.5	46.6	18. 33. 27.66		27.48	28.12	0.64		18. 33. 28.05	- 3.11	
	22	42 Camelopardi S.P.	S	26.0	32.5	39.2	45.3	4.9	11.6	18.2	31.1	37.8	44.3	18. 40. 5.03		6.94				6. 40. 7.51	- 1.06	
	23	β ¹ Lyrae	S	59.4	2.2	5.1	11.1	14.0	16.9	25.9	28.6	31.7	34.6	18. 46. 16.98		16.90	17.50	0.60		18. 46. 17.47	- 3.11	
	24	β ² Lyrae	S	1.1	4.1	7.1	12.5	15.2	18.8	27.7	30.5	33.6	36.5	18. 46. 18.74		18.66				18. 46. 19.23	- 3.11	
	25	Cephei 51 S.P. ...	S	2.2	9.5	15.1	21.1	30.2	36.2	45.6	52.1	0.0	6.4	18. 51. 26.80		40.62				6. 51. 41.19	+ 4.80	
	26	Groombridge 2742	S	...	...	...	...	...	34.0	39.0	44.2	49.8	18. 56. 17.99		17.08					18. 56. 17.65	- 3.12	
	27	ζ Aquilæ	S	24.9	27.5	30.1	35.1	37.6	40.2	47.9	50.3	53.0	55.6	19. 0. 40.24		40.45	41.07	0.62		19. 0. 41.02	- 3.31	
	28	Bradley 2409	S	4.5	7.1	10.0	15.4	18.0	20.7	28.8	31.6	34.1	37.0	19. 2. 20.75		20.81				19. 2. 21.38	- 3.19	
	29	Groomb. 1280 S.P.	S	1.6	5.4	9.6	13.5	25.9	30.0	33.8	41.8	46.0	49.9	19. 8. 25.71		26.87				7. 8. 27.44	- 1.31	
	30	Piazzì VII. 67 S.P.	S	...	...	...	41.8	2.1	9.0	16.0	...	...	...	19. 20. 2.16		4.16				7. 20. 4.73	- 1.16	
	31	Groomb. 1314 S.P.	S	...	...	...	41.4	11.9	22.1	32.6	...	...	...	19. 25. 11.90		14.88				7. 25. 15.45	- 0.84	
	32	Groomb. 1324 S.P.	S	...	...	...	48.1	54.2	0.5	12.9	19.2	25.5	19. 25. 47.98		49.82					7. 25. 50.39	- 1.22	
	33	λ Ursæ Minoris ..	S	30.3	37.6	51.5	58.1	10.0	17.1	30.0	47.6	59.9	11.1	19. 27. 52.12		15.58				19. 27. 16.15	- 18.45	
	34	10 Vulpeculæ ...	S	...	12.1	15.1	20.2	23.2	26.0	...	...	...	42.3	19. 39. 25.91		25.95				19. 39. 26.52	- 3.13	
	35	Groombridge 3051	S	...	...	...	...	...	46.0	51.7	57.2	2.5	20. 3. 29.48		28.48					20. 3. 29.05	- 2.94	
	36	W. B. (2) XX. 315	S	41.0	44.0	47.1	53.2	56.1	59.5	8.3	11.6	14.4	17.6	20. 9. 59.31		59.18				20. 9. 59.75	- 2.98	
	37	Piazzì XX. 55.....	S	55.4	58.5	...	...	...	13.7	...	...	28.9	32.0	20. 10. 13.73		13.60				20. 10. 14.17	- 2.98	
	38	ρ Capricorni	S	42.6	45.1	48.0	...	...	58.3	...	8.5	11.4	14.0	20. 22. 58.30		58.93	59.54	0.61		20. 22. 59.50	- 3.82	
	39	Bradley 2627	S	51.4	54.0	56.5	...	...	7.0	...	17.3	20.0	22.2	20. 23. 6.94		7.57				20. 23. 8.14	- 3.82	
	40	ε Aquarii	S	...	...	55.2	0.2	2.8	5.2	12.7	15.2	...	...	20. 42. 5.24		5.74	6.31	0.57		20. 42. 6.31	- 3.56	
	41	77 Draconis	S	29.6	41.1	52.8	16.1	27.6	39.4	14.0	25.9	37.4	48.8	21. 7. 39.38		36.68				21. 7. 37.25	- 2.86	
	42	38 Capricorni	S	...	...	56.0	1.1	4.0	6.4	14.3	17.1	...	...	21. 29. 6.51		7.17				21. 29. 7.74	- 3.65	
	43	ξ Aquarii	S	0.1	2.7	5.2	10.1	12.8	15.1	22.6	25.1	27.6	30.1	21. 32. 15.16		15.64	16.26	0.62		21. 32. 16.21	- 3.35	
	44	42 Capricorni	S	40.5	43.1	45.8	50.8	53.3	56.0	3.5	6.0	8.6	11.2	21. 35. 55.90		56.48				21. 35. 57.05	- 3.46	
	45	κ Pegasi.....	S	41.9	44.5	47.2	52.8	55.6	58.4	6.5	9.1	12.0	14.6	21. 39. 58.29		58.34				21. 39. 58.91	- 2.84	
	46	14 Pegasi	S	59.9	2.5	5.4	11.0	13.9	16.9	25.4	28.0	31.0	33.9	21. 45. 16.82		16.80				21. 45. 17.37	- 2.77	
	47	16 Pegasi	S	5.6	8.1	11.0	...	...	22.0	...	32.9	35.5	38.1	21. 48. 21.92		21.96	22.52	0.56		21. 48. 22.53	- 2.80	
	48	17 Pegasi	S	39.1	41.5	44.1	48.9	51.5	54.0	1.8	4.1	6.8	9.3	21. 51. 54.13		54.37				21. 51. 54.94	- 2.95	
	49	α Aquarii	S	13.8	16.2	18.9	23.8	26.1	28.5	36.1	38.5	41.0	43.5	22. 0. 28.66		29.04	29.59	0.55		22. 0. 29.60	- 3.10	
	50	α Arietis.....	HF	...	6.1	8.9	14.2	17.0	19.8	27.8	30.3	33.2	...	2. 1. 19.69	(- 4.90)	19.80	20.30	0.50	0.51	.....		
July 5	51	⊙ 1 L.....	T	54.1	56.8	59.5	5.0	7.6	10.2	18.1	20.9	23.8	26.2	6. 59. 10.25		} 18.94			0.62	[- 0.08]	7. 0. 19.54	
	52	⊙ 2 L.....	T	11.3	14.0	16.9	22.0	24.6	27.1	35.3	38.0	40.8	43.4	7. 1. 27.37								

11. Observed over wires M, N, O, X, Y and Z.

17. Very faint; cloudy.

25. Observed over wire V with the transit-micrometer set to readings 35° 663, 35° 522, 35° 401, 35° 297, 35° 111, 34° 988, 34° 812, 34° 677, 34° 510, 34° 386.

29. Observed in dark field with wires illuminated.

33. Observed over wire T with the transit-micrometer set to readings 36° 753, 36° 776, 36° 889, 36° 941, 37° 021, 37° 071, 37° 172, 37° 301, 37° 400, 37° 461.

35. Cloudy.

11, 18, 19, 21, 34. Very cloudy.

18. Observed over wires N, Q, R, S, T and Y.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation.							
															(Level).							
															[Azimuth].							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h m s	"	s	s	s	s	h m s	s	
				A	S	S	S	S	S	S	S	S	S									
July 5	1	ζ Aquilæ.....	HF	25.0	27.5	30.1	35.2	37.8	40.1	48.0	50.5	53.0	55.6	19. 0. 40.30	+ 0.96	40.53	41.08	0.55	0.62†	.....		
	2	ψ Sagittarii.....	HF	56.3	58.9	1.9	7.1	10.0	12.7	20.9	23.5	26.2	28.9	19. 9. 12.67	(- 4.90)	13.40	13.96	0.56	[- 0.08]	.....		
	3	α Ceti.....	CD	36.2	38.5	41.1	46.1	48.6	51.0	58.5	0.8	3.5	6.0	2. 56. 51.05	[+10.33]	51.40	52.02	0.62	0.61	2. 56. 52.00	- 1.52	
	4	δ 2 L.....	CD	...	...	12.2	17.8	20.4	23.1	31.4	34.1	36.8	39.6	3. 9. 23.19		23.31			[- 0.10]	3. 8. 16.18		
	5	β Tauri.....	CD	26.6	29.5	32.2	38.0	40.9	43.7	52.1	55.0	57.8	0.5	5. 19. 43.66		43.68	44.26	0.58		5. 19. 44.27	- 1.25	
	6	ε Orionis.....	CD	41.3	43.8	46.2	51.3	53.6	56.1	...	...	...	...	5. 30. 56.14		56.55	57.03	0.48		5. 30. 57.14	- 0.90	
	7	Mercury 2 L.....	CD	...	...	54.0	59.4	2.0	4.6	12.4	15.1	...	...	5. 33. 4.61		4.75				5. 33. 5.07		
	8	α Orionis.....	CD	17.6	20.0	22.5	27.5	30.0	32.4	40.1	42.5	45.1	47.5	5. 49. 32.54		32.84	33.46	0.62		5. 49. 33.43	- 1.01	
July 6	9	⊙ 1 L.....	CD	1.1	3.9	6.4	11.8	14.5	17.2	25.3	28.0	30.8	33.3	7. 3. 17.26	+ 0.70	} 25.72 (15.58)					7. 4. 26.30	
	10	⊙ 2 L.....	CD	18.0	20.9	23.2	28.2	31.4	34.1	42.1	44.7	47.6	50.1	7. 5. 34.06	(- 5.46)							
	11	Regulus.....	CD	35.5	38.1	40.8	45.7	48.1	50.6	58.2	0.8	3.3	6.0	10. 2. 50.73			50.93	51.43	0.50		10. 2. 51.50	- 1.43
	12	γ Leonis.....	CD	59.9	2.1	4.9	...	...	15.5	...	26.1	28.6	31.1	10. 14. 15.49			(15.58)				(10. 14. 16.15)	- 1.58
	13	Polaris S.P.....	CD	30.0	34.9	40.0	54.9	0.2	5.6	20.5	26.3	31.0	54.0	13. 20. 12.38			43.32	43.66	0.34			
	14	ι Serpentis.....	R. CD	40.6	43.1	45.9	51.1	53.9	56.4	4.2	6.9	9.5	12.1	15. 36. 56.40			57.16				15. 36. 57.71	- 2.94
	15	κ Serpentis.....	CD	50.1	52.8	55.4	0.7	3.1	5.9	13.7	16.1	18.8	21.3	15. 44. 5.82			5.93				15. 44. 6.47	- 2.97
	16	η Herculis.....	CD	20.7	23.3	26.0	31.1	33.7	36.2	44.0	46.6	49.2	51.9	15. 56. 36.30			36.42				15. 56. 36.96	- 3.01
	17	κ Herculis.....	R. CD	...	11.6	14.2	19.3	22.0	24.5	32.1	34.9	37.6	...	16. 3. 24.56			25.33				16. 3. 25.87	- 3.03
	18	γ Herculis.....	R. CD	5.9	8.5	11.1	16.2	18.9	21.7	...	...	...	...	16. 17. 21.58			22.35	22.93	0.58		16. 17. 22.89	- 3.06
	19	Groomb. 856 S.P.....	R. CD	16.2	31.8	48.0	3.6	...	...	...	...	...	...	16. 40. 50.76			52.13				4. 40. 52.67	+ 0.37
	20	Groomb. 856 S.P.....	CD	...	...	...	...	47.3	3.9	19.1	50.6	7.4	23.0	16. 40. 47.73			52.26				4. 40. 52.80	+ 0.37
	21	Groomb. 909 S.P.....	CD	2.6	7.3	12.1	16.8	31.0	36.0	40.6	50.1	54.9	59.7	16. 55. 31.07			32.47				4. 55. 33.01	- 1.22
	22	Lalande 30971.....	CD	23.9	26.6	29.5	34.3	37.2	40.0	47.5	50.4	53.0	55.6	16. 57. 39.83			40.45				16. 57. 40.99	- 3.74
	23	Lalande F. 713 S.P.....	CD	...	...	...	...	...	...	38.2	55.1	10.6	16. 59. 34.87			39.43				4. 59. 39.97	+ 0.38	
	24	Oeltz. Arg. (N.) 5928 S.P.....	CD	40.0	48.8	57.5	5.9	32.0	40.1	49.0	...	...	...	17. 27. 31.69		34.24				5. 27. 34.78	- 0.74	
	25	Oeltz. Arg. (N.) 5896 S.P.....	CD	...	...	...	...	...	18.0	31.2	58.5	12.2	25.9	17. 28. 4.02			7.95			5. 28. 8.49	- 0.02	
	26	β Ophiuchi.....	C	7.5	10.0	12.5	17.3	20.0	22.4	30.0	32.1	34.7	37.4	17. 38. 22.41		22.71	23.43	0.72	0.79	.....		
	27	μ Herculis.....	CD	9.1	11.9	14.6	20.2	23.1	25.9	34.0	37.0	40.0	42.6	17. 42. 25.87		25.85	26.39	0.54	0.61	17. 42. 26.39	- 3.15	
	28	Groomb. 1031 S.P.....	CD	56.3	5.5	14.4	23.1	50.1	59.1	8.1	25.9	34.9	44.0	17. 51. 50.05		52.69				5. 51. 53.23	- 0.73	
	29	35 Camelopardi S.P.....	CD	...	...	...	...	...	18.0	21.8	29.8	33.7	37.8	17. 56. 13.90		15.04				5. 56. 15.58	- 1.28	
	30	τ Ophiuchi (S. Star).....	CD	...	...	...	22.7	25.1	27.8	35.1	...	...	...	17. 57. 27.70		28.16				17. 57. 28.70	- 3.65	
	31	τ Ophiuchi (N. Star).....	CD	...	...	...	...	...	...	...	37.9	40.1	42.7	17. 57. 27.81		28.27				17. 57. 28.81	- 3.65	
	32	2 Aquilæ.....	CD	22.3	24.8	27.4	32.3	34.8	37.5	44.9	47.4	50.0	52.2	18. 36. 37.38		37.85	38.43	0.58		18. 36. 38.38	- 3.72	
	33	Groombridge 2732.....	CD	23.2	28.3	33.7	44.1	49.5	54.6	10.6	16.0	21.1	26.5	18. 54. 54.81		53.86				18. 54. 54.39	- 3.13	
	34	Groombridge 2742.....	CD	...	...	56.9	7.3	12.7	18.1	34.0	39.3	...	...	18. 56. 18.10		17.15				18. 56. 17.68	- 3.13	
	35	W.B. XIX. 96.....	CD	11.9	14.1	16.6	21.7	24.1	26.6	34.0	36.4	38.9	41.6	19. 7. 26.61		27.03				19. 7. 27.56	- 3.65	
	36	Lalande 14161 S.P.....	CD	53.4	57.1	0.9	4.8	16.3	20.6	24.2	32.0	35.8	40.0	19. 14. 16.47		17.58				7. 14. 18.11	- 1.35	
	37	20 Lynceis S.P.....	CD	55.1	58.9	2.6	6.2	18.1	22.0	25.9	33.6	37.6	41.5	19. 14. 18.11		19.22				7. 14. 19.75	- 1.35	
	38	Piazzi XIX. 130.....	CD	20.0	22.5	25.1	30.5	33.2	36.0	43.8	46.4	49.1	51.7	19. 23. 35.86		36.49				19. 23. 37.02	- 4.06	
	39	B.D. + 55° No. 2218.....	CD	20.0	24.1	28.6	37.0	41.6	46.0	59.2	3.5	7.9	12.1	19. 29. 46.04		45.39				19. 29. 45.92	- 3.01	
	40	Groomb. 1329 S.P.....	CD	32.8	47.5	3.2	19.1	4.0	20.2	36.0	6.7	22.1	37.7	19. 36. 3.78		8.19				7. 36. 8.72	- 0.42	
	41	Carrington 2995.....	CD	46.6	2.2	19.3	50.8	7.1	22.7	10.9	26.2	42.9	58.5	19. 44. 22.87		18.92				19. 44. 19.45	- 3.95	
	42	Oeltz. Arg. (N.) 19786.....	CD	17.7	22.0	26.1	34.4	38.8	43.1	55.6	59.9	4.0	8.1	19. 51. 43.01		42.41				19. 51. 42.94	- 2.96	
	43	Radcliffe 4561.....	CD	59.5	2.5	5.9	12.3	15.8	18.8	28.8	32.0	35.1	38.3	19. 58. 18.93		18.68				19. 58. 19.21	- 3.00	
	44	Piazzi XX. 42.....	CD	55.3	0.6	6.1	17.1	22.6	28.2	44.7	50.1	55.8	1.3	20. 5. 28.23		27.20				20. 5. 27.73	- 2.96	
	45	α Capricorni.....	CD	4.4	7.1	9.6	14.5	17.1	19.9	27.3	29.9	32.3	34.9	20. 12. 19.72		20.24	20.80	0.56		20. 12. 20.77	- 3.75	
	46	β Capricorni.....	H	57.5	59.9	2.6	7.9	10.2	13.1	20.6	23.1	25.8	28.2	20. 15. 12.92		13.47	13.85	0.38	0.38†	.....		
	47	ε Delphini.....	H	...	4.9	7.4	12.2	14.9	17.5	25.0	27.6	30.0	...	20. 28. 17.46		17.67	17.88	0.21		.....		
	48	ε Delphini..(E&E).....	H	...	12.7	27.8	...	57.7	12.9	...	...	...	...	20. 28. 16.70		16.91	17.88	0.97		.....		
	49	Aldebaran.....	AC	42.1	44.6	47.4	52.6	54.9	57.5	5.3	8.0	10.4	13.1	4. 29. 57.62		57.80	58.37	0.57	0.64	.....		
	50	Sirius.....	AC	17.9	20.1	22.9	...	...	33.2	...	43.6	46.0	48.8	6. 40. 33.24		33.86			[- 0.11]	6. 40. 34.47	- 0.47	
July 7	51	⊙ 1 L.....	AC	7.4	10.0	12.9	18.0	20.8	23.6	31.6	34.2	36.9	39.8	7. 7. 23.55							7. 8. 32.71	
	52	⊙ 2 L.....	AC	24.4	27.0	29.9	35.1	37.8	40.2	48.5	51.1	53.9	56.4	7. 9. 40.46								

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 48, — 26^s.10.
Corrections for passage of Semidiameter, Nos. 4 and 7, — 67^s.73 and — 0^s.27.

July 5^d. 6^h. Wire Z was found broken.

6, 22, 38. Very faint.

7, 9, 10. Very ill-defined and tremulous.

12. Very tremulous.

13. Observed over wire R with the transit-micrometer set to readings 35^s.340, 35^s.312, 35^s.256, 35^s.105, 35^s.069, 35^s.034, 34^s.900, 34^s.843, 34^s.802, 34^s.609.

50. Faint.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o Sidereal and [Losing Rate]	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.										
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.																		
																						s	s	s	s	s	s	s	s	s	s
July 7	1	μ Herculis	AC	...	12 ⁰	14 ⁸	20 ¹	23 ⁰	25 ⁸	34 ¹	36 ⁹	39 ⁸	...	17. 42. 25 ⁸⁴	+ 0 ⁷⁰	25 ⁷⁸	26 ³⁹	0 ⁶¹	0 ⁶⁴	.....											
	2	Lalande 33419....	AC	...	...	...	44 ⁰	56 ²	8 ⁴	45 ²	...	...	...	17. 56. 8 ⁵⁷	(- 6 ³²)	5 ²⁶	...	[- 0 ¹¹]	17. 56. 5 ⁸²	- 4 ⁰⁵											
	3	δ Ursæ Minoris...	AC	52 ⁴	0 ³	59 ⁸	8 ¹	16 ⁶	24 ²	...	...	...	...	18. 6. 10 ⁶⁸	+11 ¹⁰	58 ⁴⁴	58 ⁸⁵	0 ⁴¹	.....												
	4	ζ Cygni	CD	16 ¹	18 ⁸	21 ⁹	27 ⁶	30 ²	33 ¹	41 ⁷	44 ⁴	47 ⁵	50 ⁰	21. 8. 33 ¹⁶		33 ⁰⁶	33 ⁵²	0 ⁴⁶	0 ⁵¹	.....											
	5	ζ Cygni	(E&E) CD	...	25 ¹	42 ²	...	16 ⁴	33 ⁶	...	...	...	...	21. 8. 33 ¹⁷		33 ⁰⁷	33 ⁵²	0 ⁴⁵	.....												
	6	α Equulei	CD	25 ²	27 ⁸	30 ¹	35 ¹	37 ⁵	40 ⁰	47 ⁶	50 ⁰	52 ⁴	54 ⁹	21. 10. 40 ⁰⁸		40 ³⁸	40 ⁷⁴	0 ³⁶	.....												
	7	α Equulei	(E&E) CD	...	36 ⁴	51 ⁴	...	21 ⁰	36 ⁰	...	...	...	...	21. 10. 40 ⁰⁴		40 ³⁴	40 ⁷⁴	0 ⁴⁰	.....												
	8	Aldebaran	B	42 ⁴	44 ⁹	47 ⁶	52 ⁶	55 ³	57 ⁹	5 ⁵	8 ¹	10 ⁵	13 ³	4. 29. 57 ⁸⁴		57 ⁹⁷	58 ³⁹	0 ⁴²	0 ⁴⁸	4. 29. 58 ⁴³	- 1 ³⁰										
	9	ϵ Aurigæ	B	56 ⁶	59 ⁵	2 ⁵	8 ¹	11 ²	14 ¹	23 ¹	26 ⁰	28 ⁹	31 ⁹	4. 50. 14 ²²		14 ⁰⁸	14 ⁵²	0 ⁴⁴	[- 0 ¹¹]	4. 50. 14 ⁵⁴	- 1 ³⁵										
	10	η Aurigæ	B	54 ⁸	58 ⁰	1 ²	...	...	14 ⁴	...	27 ⁵	30 ⁶	34 ⁰	4. 59. 14 ³⁹		14 ⁰⁷	...	...	...	4. 59. 14 ⁵³	- 1 ³⁶										
	11	Capella	B	40 ¹	43 ⁶	47 ⁵	54 ⁵	58 ²	1 ⁹	...	...	...	...	5. 9. 1 ⁶³		1 ¹⁹	...	...	...	5. 9. 1 ⁶⁵	- 1 ³⁶										
	12	Rigel	B	...	...	...	...	...	...	39 ⁹	42 ¹	44 ⁷	47 ¹	5. 9. 32 ²⁷		32 ⁷⁴	33 ²²	0 ⁴⁸	...	5. 9. 33 ²⁰	- 0 ⁸⁸										
	13	β Tauri	B	27 ⁰	29 ⁹	32 ⁷	38 ¹	40 ⁹	43 ⁹	52 ²	55 ⁰	58 ⁰	0 ⁷	5. 19. 43 ⁸⁷		43 ⁸⁰	44 ³¹	0 ⁵¹	...	5. 19. 44 ²⁶	- 1 ³⁰										
	14	δ Orionis	B	26 ⁹	29 ⁴	32 ⁰	36 ⁹	39 ³	41 ⁸	49 ¹	51 ⁶	54 ⁰	56 ⁴	5. 26. 41 ⁷⁶		42 ¹³	42 ⁴⁷	0 ³⁴	...	5. 26. 42 ⁵⁹	- 0 ⁹⁷										
	15	ϵ Orionis	B	41 ⁷	...	46 ²	51 ³	53 ⁹	56 ¹	3 ⁵	6 ⁰	...	11 ¹	5. 30. 56 ²⁵		56 ⁶³	57 ⁰⁷	0 ⁴⁴	...	5. 30. 57 ⁰⁸	- 0 ⁹⁴										
	16	Mercury 2 L.	B	45 ¹	47 ⁶	50 ²	55 ⁶	58 ²	0 ⁹	8 ⁹	11 ⁸	14 ¹	16 ⁹	5. 43. 0 ⁹⁶		1 ⁰¹	...	...	...	5. 43. 1 ²¹											
	17	α Orionis	B	18 ⁰	20 ⁴	22 ⁹	27 ⁸	30 ¹	32 ⁸	40 ²	42 ⁷	45 ¹	47 ⁸	5. 49. 32 ⁸⁰		33 ⁰⁶	33 ⁴⁹	0 ⁴³	...	5. 49. 33 ⁵¹	- 1 ⁰⁴										
	18	Sirius	B	18 ¹	20 ⁷	23 ¹	28 ³	30 ⁹	33 ⁶	41 ⁵	43 ⁹	46 ⁴	49 ⁰	6. 40. 33 ⁵⁸		34 ¹⁷	...	...	...	6. 40. 34 ⁶²	- 0 ⁴⁸										
July 8	19	$\odot$ 1 L.	B	...	...	19 ¹	24 ³	27 ⁰	29 ⁸	37 ⁸	40 ⁵	...	...	7. 11. 29 ⁷⁸		...	...	...	...	7. 12. 38 ⁵⁷											
	20	$\odot$ 2 L.	B	30 ²	32 ⁹	35 ⁷	40 ⁹	43 ⁶	46 ²	54 ⁶	57 ⁰	59 ⁸	2 ⁵	7. 13. 46 ³⁷		38 ¹²	...	...	...	...											
	21	β Herculis	B	31 ⁶	34 ²	37 ⁰	42 ³	44 ⁸	47 ⁴	55 ⁵	58 ¹	0 ⁸	3 ³	16. 25. 47 ⁵³		47 ⁵⁷	...	...	...	16. 25. 47 ⁹⁷	- 3 ⁰⁵										
	22	ζ Ophiuchi	B	13 ²	15 ⁷	18 ²	23 ²	25 ⁷	28 ³	35 ⁸	38 ²	40 ⁹	43 ²	16. 31. 28 ²⁶		28 ⁷⁶	29 ²⁶	0 ⁵⁰	...	16. 31. 29 ¹⁶	- 3 ⁴³										
	23	ζ Herculis	B	7 ¹	10 ⁰	13 ⁰	18 ⁸	21 ⁶	24 ⁷	33 ³	36 ²	39 ¹	42 ⁰	16. 37. 24 ⁶¹		24 ⁴⁸	24 ⁹²	0 ⁴⁴	...	16. 37. 24 ⁸⁸	- 3 ⁰²										
	24	η Herculis	B	3 ⁴	6 ⁶	10 ⁰	16 ²	19 ⁴	22 ⁷	32 ³	35 ³	38 ⁶	41 ⁶	16. 39. 22 ⁶⁴		22 ³⁶	...	...	...	16. 39. 22 ⁷⁶	- 3 ⁰³										
	25	ζ Herculis	B	21 ⁰	23 ⁷	26 ⁷	32 ³	35 ²	38 ²	46 ⁶	49 ⁴	52 ³	55 ²	16. 46. 38 ⁰⁹		37 ⁹⁹	...	...	...	16. 46. 38 ³⁹	- 3 ⁰⁷										
	26	κ Ophiuchi	B	52 ⁸	55 ¹	57 ⁷	2 ⁷	5 ²	7 ⁸	15 ³	17 ⁸	20 ³	22 ⁸	16. 49. 7 ⁷⁷		7 ⁹⁸	...	...	...	16. 49. 8 ³⁸	- 3 ²²										
	27	κ Ophiuchi	B	32 ³	34 ⁷	37 ³	42 ²	44 ⁷	47 ³	54 ⁸	57 ³	59 ⁸	2 ²	16. 52. 47 ²⁸		47 ⁵¹	47 ⁹⁰	0 ³⁹	...	16. 52. 47 ⁹¹	- 3 ²³										
	28	κ Ophiuchi (E&E) ..	B	...	43 ⁶	58 ⁵	13 ⁵	28 ⁶	43 ⁶	...	...	...	...	16. 52. 47 ²³		47 ⁴⁶	47 ⁹⁰	0 ⁴⁴	.....	...											
	29	ϵ Herculis	B	4 ¹	6 ⁹	9 ⁹	15 ⁵	18 ⁵	21 ⁴	30 ⁰	32 ⁹	35 ⁷	38 ⁷	16. 56. 21 ³⁹		21 ²⁷	21 ⁶⁴	0 ³⁷	...	16. 56. 21 ⁶⁷	- 3 ⁰⁷										
	30	ϵ Herculis	(E&E) B	...	13 ⁰	30 ⁵	47 ⁸	5 ⁰	22 ⁴	...	...	...	...	16. 56. 21 ⁴²		21 ³⁰	21 ⁶⁴	0 ³⁴	...	...											
	31	δ Herculis	B	31 ⁹	34 ⁶	37 ⁵	42 ⁹	45 ⁵	48 ³	56 ⁴	59 ¹	1 ⁸	4 ⁵	17. 10. 48 ²⁸		48 ²⁷	...	...	...	17. 10. 48 ⁶⁷	- 3 ¹³										
	32	δ Ursæ Minoris...	B	28 ²	37 ⁰	45 ³	53 ⁸	1 ⁷	18 ⁸	27 ⁵	35 ³	44 ⁰	51 ⁸	18. 6. 10 ³⁴		58 ¹⁰	58 ⁶⁵	0 ⁵⁵	...	...											
	33	η Serpentis	B	43 ⁸	46 ¹	48 ⁵	53 ⁴	56 ⁰	58 ⁴	5 ⁸	8 ²	10 ⁸	13 ²	18. 15. 58 ⁴⁴		58 ⁸⁴	59 ²⁰	0 ³⁶	...	18. 15. 59 ²⁴	- 3 ⁵⁷										
	34	ϕ Draconis	B	...	...	48 ⁹	4 ³	11 ⁹	19 ⁶	42 ⁹	50 ⁵	...	...	18. 22. 19 ⁷⁵		17 ⁸⁷	...	...	...	18. 22. 18 ²⁷	- 3 ⁴⁰										
	35	Rigel	C	17 ⁴	20 ¹	22 ⁵	27 ⁵	29 ⁹	32 ³	39 ⁸	42 ⁴	44 ⁹	47 ⁴	5. 9. 32 ⁴⁴	+11 ⁸⁷	32 ⁹⁶	33 ²⁴	0 ²⁸	0 ³⁰	5. 9. 33 ²⁴	- 0 ⁹⁰										
July 9	36	$\odot$ 1 L.	C	19 ²	22 ¹	25 ⁶	30 ⁰	32 ⁵	35 ⁶	43 ²	46 ²	49 ⁰	51 ⁷	7. 15. 35 ⁵⁴		...	...	...	...	7. 16. 44 ¹⁴											
	37	$\odot$ 2 L.	C	35 ⁸	38 ⁶	41 ⁰	46 ⁸	49 ³	52 ⁰	0 ³	2 ⁹	5 ⁸	8 ⁰	7. 17. 52 ⁰⁸		43 ⁸⁷	...	...	...	...											
	38	ϵ Serpentis	C	...	...	...	...	...	...	50 ⁹	53 ³	55 ⁹	58 ²	15. 45. 43 ⁴⁹	- 46 ⁶⁸	40 ⁶⁴	40 ⁸⁹	0 ²⁵	...	15. 45. 40 ⁸⁷	- 3 ⁰⁵										
	39	γ Serpentis	C	29 ³	32 ⁰	34 ⁵	39 ³	42 ²	...	52 ³	55 ⁰	57 ⁴	0 ³	15. 51. 44 ⁷⁴		41 ⁶³	41 ⁹²	0 ²⁹	...	15. 51. 41 ⁸⁶	- 3 ⁰⁰										
	40	γ Herculis	R.	23 ⁴	25 ⁹	28 ⁸	33 ⁶	36 ²	...	46 ⁶	49 ³	51 ⁹	54 ⁶	15. 56. 38 ⁹⁶		36 ⁵²	...	...	...	15. 56. 36 ⁷⁵	- 2 ⁹⁹										
	41	κ Herculis	C	13 ³	15 ⁹	18 ³	23 ⁷	26 ⁰	...	36 ³	39 ¹	41 ⁸	44 ³	16. 3. 25 ⁸⁵		25 ⁶²	...	...	...	16. 3. 25 ⁸⁵	- 3 ⁰²										
	42	γ Herculis	C	...	12 ⁹	15 ⁴	20 ⁷	23 ²	...	33 ⁹	36 ⁴	39 ⁰	...	16. 17. 2																	

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Lossing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
															Collimation.							
															(Level).							
															(Azimuth).							
I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h	m	s	''	''	''	''	h	m	s	''		
8	8	8	8	8	8	8	8	8	8													
July 10	1	⊙ 1 L.	WB	25.6	28.3	31.2	36.3	39.0	41.8	49.8	52.4	55.3	57.9	7. 19. 41.80	-14.10							
	2	⊙ 2 L.	WB	42.0	44.5	47.4	52.6	55.3	58.0	6.0	9.0	11.4	14.0	7. 21. 58.06	(- 5.84)				0.23			
	3	ζ Herculis	WB	7.2	10.3	13.2	19.0	21.8	24.7	33.2	36.2	39.3	42.2	16. 37. 24.75	+11.28	48.93			[- 0.03]	7. 20. 49.15		
	4	κ Ophiuchi	WB	32.4	34.8	37.4	42.3	44.9	47.4	54.8	57.3	59.8	2.3	16. 52. 47.38	+ 0.74	24.67	24.90	0.23				
	5	ε Herculis	WB	4.2	7.0	10.0	15.7	18.4	21.6	30.0	32.9	35.8	38.7	16. 56. 21.47		47.64	47.89	0.25				
	6	θ Ophiuchi	DE	23.9	26.8	29.3	34.8	37.5	40.4	48.4	51.2	53.9	56.7	17. 15. 40.33		21.40	21.63	0.23				
	7	σ Ophiuchi	DE	9.3	11.7	14.2	19.3	21.6	24.2	31.5	34.0	36.4	39.1	17. 21. 24.17		41.08	41.18	0.10	0.11			
	8	Oeltz. Arg. (N.) 5928 S.P.	CD	40.6	49.2	58.1	7.1	32.2	...	50.0	...	...	...	17. 27. 32.36		24.50	24.58	0.08				
	9	Oeltz. Arg. (N.) 5896 S.P.	CD	...	...	...	...	...	18.2	32.1	59.1	13.0	26.5	17. 28. 4.56		35.13			0.23	5. 27. 35.34 - 0.98		
	10	ι Herculis	WB	13.6	17.1	20.5	27.6	31.2	...	45.5	49.1	52.8	56.3	17. 36. 34.92		8.84				5. 28. 9.05 - 0.38		
	11	μ Herculis	WB	9.4	12.1	15.0	20.5	23.3	26.2	34.5	37.3	40.1	42.9	17. 42. 26.17		34.52				17. 36. 34.73 - 3.07		
	12	Groomb. 1031 S.P.	WB	56.5	5.4	15.0	23.6	50.3	59.2	8.2	25.8	35.3	44.2	17. 51. 50.22		26.16	26.38	0.22				
	13	δ Ursæ Minoris ...	WB	25.5	30.8	40.2	45.7	55.6	59.6	8.8	13.6	24.1	28.9	18. 6. 10.53		53.08				5. 51. 53.29 - 0.95		
	14	ε Sagittarii	WB	6.3	9.2	12.2	17.6	20.4	23.5	31.8	34.8	37.7	40.4	18. 14. 23.43		58.66	58.22	-0.44				
	15	α Lyrae	WB	9.1	12.2	15.5	21.7	24.8	28.2	37.6	40.7	44.0	47.2	18. 33. 28.15		24.27				18. 14. 24.48 - 4.32		
	16	2 Aquilæ	WB	22.7	25.3	27.8	32.6	35.2	37.8	45.1	47.6	50.2	52.7	18. 36. 37.74		27.93	28.14	0.21				
	17	Lalande F. 3178 ...	WB	12.0	20.3	29.2	37.9	46.1	2.4	9.8	18.6	27.7	36.4	18. 49. 17.59		38.25	38.46	0.21				
	18	Cephei 51 S.P. ...	WB	35.8	46.1	55.3	7.3	17.5	35.4	45.8	57.1	6.2	16.4	18. 51. 26.29		5.86				18. 49. 6.07 - 7.16		
	19	Groombridge 2742	WB	46.5	51.9	57.3	8.0	13.0	18.3	34.2	39.4	44.7	50.2	18. 56. 18.43		41.50	41.57	0.07				
	20	W. B. XIX. 96 ...	WB	11.9	14.4	17.0	22.0	24.4	26.9	34.3	36.6	39.2	41.6	19. 7. 26.87		17.41				18. 56. 17.62 - 3.12		
	21	Lalande 36393-5 ...	WB	6.4	8.7	11.3	16.3	18.6	21.2	28.5	31.0	33.5	36.0	19. 15. 21.19		27.33				19. 7. 27.54 - 3.69		
	22	W. B. XIX. 680 ...	WB	49.1	51.9	54.6	0.3	3.0	6.0	14.2	17.0	19.8	22.5	19. 24. 5.88		21.64				19. 15. 21.85 - 3.68		
	23	λ Ursæ Minoris ...	WB	30.3	37.8	49.6	59.1	13.2	19.6	29.8	36.0	45.5	52.4	19. 27. 56.22		5.87				19. 24. 6.08 - 3.20		
	24	Groomb. 1328 S.P.	WB	39.9	46.2	52.4	58.6	16.9	23.0	29.4	41.6	48.0	54.0	19. 28. 16.91		15.95	16.92	0.97				
	25	Groomb. 1350 S.P.	WB	30.2	37.6	44.5	51.3	12.5	19.4	26.3	40.5	47.6	50.5	19. 36. 12.33		18.90				7. 28. 19.11 - 1.35		
	26	γ Aquilæ	WB	6.7	9.3	11.8	16.8	19.3	21.8	29.2	31.7	34.4	36.9	19. 41. 21.83		14.60				7. 36. 14.81 - 1.30		
	27	α Aquilæ	WB	30.4	33.0	35.5	40.4	43.0	45.5	52.9	55.4	58.0	0.5	19. 45. 45.50		22.08	22.27	0.19				
	28	Groomb. 1119 S.P.	WB	53.0	3.0	15.4	22.0	31.5	39.3	51.2	58.3	9.0	18.1	19. 52. 45.14		45.77	45.94	0.17				
	29	Capella	AC	40.4	44.0	47.8	54.5	58.2	1.8	12.2	15.9	19.4	23.2	5. 9. 1.79	(- 5.17)	24.77			0.27	7. 53. 24.98 + 11.14		
	30	β Tauri	AC	27.3	30.1	33.0	38.4	41.2	44.2	52.4	55.2	58.0	0.9	5. 19. 44.11	+10.70	1.46			[- 0.02]	5. 9. 1.73 - 1.47		
July 11	31	⊙ 1 L.	AC	29.4	32.0	34.6	40.0	42.6	45.3	53.3	56.0	58.5	1.6	7. 23. 45.37		44.11	44.38	0.27		5. 19. 44.38 - 1.37		
	32	⊙ 2 L.	AC	45.7	48.3	50.9	56.2	58.9	1.7	9.7	12.2	14.9	17.6	7. 26. 1.65						7. 24. 53.86		
	33	Polaris S.P. ... R.	AC	56.9	1.8	8.5	37.0	45.7	...	...	...	...	...	13. 20. 41.49		53.60						
	34	Polaris S.P.	AC	50.8	57.2	3.6	10.8	36.5	43.2	50.0	59.4	...	...	13. 20. 16.22		48.00	48.94	0.94				
	35	τ Boötis	AC	5.6	8.2	10.9	16.0	18.4	21.2	28.8	31.4	34.1	36.7	13. 42. 21.17		47.07	48.94	1.87				
	36	η Boötis	R. AC	29.7	32.2	35.0	40.2	42.8	45.3	...	...	...	...	13. 49. 45.38		21.32	21.57	0.25		13. 42. 21.58 - 2.41		
	37	τ Virginis	AC	8.2	10.7	13.2	18.0	20.4	23.1	30.3	32.8	35.3	37.9	13. 56. 23.03		46.14	46.39	0.25		13. 49. 46.40 - 2.45		
	38	Arcturus	AC	...	43.9	46.5	51.9	54.4	57.2	4.9	7.7	10.2	...	14. 10. 57.14		23.39	23.63	0.24		13. 56. 23.65 - 2.49		
	39	Arcturus ... (E&E)	AC	36.6	52.4	8.1	...	39.8	55.5	11.0	...	...	...	14. 10. 57.13		57.27	57.54	0.27		14. 10. 57.53 - 2.51		
	40	Carrington 2478 ...	AC	13.8	30.0	46.2	17.5	34.5	50.8	38.9	54.6	10.5	27.7	16. 25. 50.69		57.26	57.54	0.28				
	41	ζ Ophiuchi	AC	13.4	15.7	18.3	23.3	25.7	28.3	35.8	38.4	40.9	43.5	16. 31. 28.37		46.75				16. 25. 47.01 - 4.25		
	42	Groomb. 866 S.P.	AC	...	8.4	12.2	16.0	27.5	31.3	35.1	42.8	46.4	...	16. 35. 27.38		28.88	29.26	0.38		16. 31. 29.14 - 3.42		
	43	ε Scorpæ	AC	10.6	13.5	16.3	22.3	25.3	28.5	37.3	40.2	43.1	46.4	16. 43. 28.39		28.48				4. 35. 28.74 - 1.51		
	44	ι Ophiuchi	AC	52.8	55.3	57.8	2.8	5.3	8.0	15.4	17.9	20.4	23.1	16. 49. 7.92		29.27				16. 43. 29.53 - 4.02		
	45	Bradley 2153	AC	21.9	24.8	27.5	32.9	35.6	38.3	46.4	49.4	52.0	54.8	16. 53. 38.40		8.17				16. 49. 8.43 - 3.21		
	46	Lalande 30971 ...	AC	24.3	...	...	34.5	37.4	39.9	48.1	50.5	53.2	56.1	16. 57. 40.09		39.12				16. 53. 39.38 - 3.84		
	47	A ¹ Ophiuchi	AC	43.5	46.2	...	...	...	...	...	...	...	...	17. 9. 0.06		40.74				16. 57. 41.00 - 3.74		
	48	A ² Ophiuchi	AC	...	...	49.1	54.7	57.4	...	8.4	11.1	...	...	17. 9. 0.20		0.81				17. 9. 1.07 - 3.94		
	49	Piazzi XVII. 31 ...	AC	26.5	29.2	...	...	...	43.0	...	...	56.5	59.2	17. 11. 42.90		0.95				17. 9. 1.21 - 3.94		
	50	σ Ophiuchi	AC	...	...	32.2	37.5	40.3	...	51.0	53.8	...	...	17. 11. 43.02		43.60				17. 11. 43.86 - 3.90		
	51	σ Ophiuchi	AC	...	11.7	14.2	19.1	21.5	24.1	31.4	33.9	36.4	...	17. 21. 24.09		43.72				17. 11. 43.98 - 3.90		
	52	σ Ophiuchi (E&E)	AC	6.2	21.0	35.9	...	5.7	20.4	35.3	...	...	...	17. 21. 23.96		24.42	24.58	0.16		17. 21. 24.68 - 3.37		
	53	Oeltz. Arg. (N.) 5928 S.P.	AC	40.4	49.1	58.2	...	...	...	...	7.1	15.7	24.4	17. 27. 32.38		24.29	24.58	0.29				
																34.95				5. 27. 35.21 - 1.04		

For Nos. 1 and 2. Reading of Transit-Micrometer 36⁰⁰⁰.Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 39 and 52, — 26⁸⁰ and — 26⁸².

3. Faint; cloudy.

8, 20, 53. Observed in dark field with wires illuminated.

9. Very faint; cloudy.

13. Observed over wire R with the transit-micrometer set to readings 35¹¹⁰⁷, 35¹²⁴⁵, 35¹⁴⁷⁵, 35¹⁵⁹⁵, 35¹⁸¹⁴, 35¹⁹¹⁶, 36¹¹³⁷, 36¹²⁷⁷, 36¹⁴⁹⁷, 36¹⁶¹⁵.17. Observed over wire T with the transit-micrometer set to readings 34¹⁶⁰⁰, 34¹⁸⁰⁰, 35¹⁰⁰⁰, 35¹²⁰⁰, 35¹⁴⁰⁰, 35¹⁶⁰⁰, 36¹⁰⁰⁰, 36¹²⁰⁰, 36¹⁴⁰⁰, 36¹⁶⁰⁰.18. Observed over wire T with the transit-micrometer set to readings 36¹⁶⁰⁰, 36¹⁸⁰⁰, 36²⁰⁰⁰, 36²²⁰⁰, 35¹⁸⁰⁰, 35²⁰⁰⁰, 35²²⁰⁰, 34¹⁸⁰⁰, 34²⁰⁰⁰, 34²²⁰⁰.24. Observed over wire U with the transit-micrometer set to readings 34¹¹⁹⁵, 34¹²¹⁶, 34¹³⁵⁶, 34¹³⁸⁰, 34¹⁴⁹⁴, 34¹⁵⁵⁰, 34¹⁶²⁴, 34¹⁶⁷⁰, 34¹⁷³⁴, 34¹⁷⁷⁴.28. Observed over wire T with the transit-micrometer set to readings 36¹⁹⁰⁵, 36¹⁸³⁵, 36¹⁷⁰³, 36¹⁶⁶⁰, 36¹⁵⁹⁶, 36¹⁵²⁷, 36¹⁴²⁵, 36¹⁴⁷⁶, 36¹³⁰⁶, 36¹²⁷⁵.33. Observed over wire U with the transit-micrometer set to readings 35¹¹⁵⁵, 35¹⁰⁸⁵, 35¹⁰³⁹, 34¹⁸³⁰, 34¹⁷²⁵.34. Observed over wire R with the transit-micrometer set to readings 35¹⁷³⁹, 35¹⁶⁶¹, 35¹⁶⁰⁹, 35¹⁵⁶², 35¹⁵²³, 35¹⁴⁷¹, 35¹⁴²⁷

1883 MONTHLY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit corrected.	Tabular R.A. of Known Stars.	Clock apparently slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.												
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation (Level).	[Azimuth].																		
																							s	s	s	s	s	s	s	s	s	h	m	s
July 11	1	Groomb. 1031 S.P.	AC	56.7	5.7	15.9	24.6	50.6	59.5	8.6	26.9	36.1	44.8	17. 51. 50.81	+ 0.74	53.46			0.27	5. 51. 53.72	- 1.01													
	2	35 Camelopardi S.P.	AC	50.5	54.8	58.6	2.8	14.4	18.5	22.4	30.1	34.2	38.1	17. 56. 14.38	(- 5.17)	15.54			[- 0.02]	5. 56. 15.80	- 1.42													
	3	δ Ursæ Minoris...	AC	24.7	30.0	35.8	42.3	4.7	10.5	16.3	36.6	...	...	18. 6. 8.20	[+10.70]	57.32	58.01	0.69	.....															
	4	Carrington 866 S.P.	AC	...	...	0.8	21.6	29.4	53.8	16.8	2.2	...	...	18. 8. 30.32		36.79				6. 8. 37.04	+ 0.61													
	5	ε Sagittarii.....	AC	1.3	4.4	7.4	13.3	16.5	19.4	28.4	31.4	34.3	37.4	18. 17. 19.42		20.30				18. 17. 20.55	- 4.52													
	6	2 Aquilæ	AC	22.7	25.1	27.7	32.4	35.1	37.7	45.2	47.7	50.2	52.9	18. 36. 37.71		38.22	38.47	0.25		18. 36. 38.47	- 3.76													
	7	Lalande F. 3178...	AC	10.5	23.8	36.4	47.8	46.0	56.8	10.7	22.9	...	...	18. 49. 16.86		6.11				18. 49. 6.36	- 7.01													
	8	Cephei 51 S.P.	AC	32.8	39.2	46.9	54.1	28.6	37.9	46.0	52.1	...	...	18. 51. 27.87		41.86	41.77	- 0.09	.....															
	9	Carrington 2865...	AC	...	...	...	15.5	33.6	52.4	45.3	...	...	...	18. 53. 52.08		47.61				18. 53. 47.86	- 4.39													
	10	Groombridge 2742	AC	...	...	...	...	...	34.2	39.2	44.6	50.2	18. 56. 18.32		17.41				18. 56. 17.86	- 3.12														
	11	ψ Sagittarii	AC	56.7	59.5	2.2	7.5	10.3	13.1	21.1	23.9	26.6	29.5	19. 9. 13.08		13.80	14.04	0.24		19. 9. 14.05	- 4.26													
	12	Lalande 14161 S.P.	AC	53.8	57.8	1.8	5.6	17.0	21.2	24.7	32.6	36.3	40.2	19. 14. 17.04		18.16				7. 14. 18.41	- 1.44													
	13	20 Lynceis S.P. ...	AC	55.3	59.3	3.2	7.0	18.7	22.5	26.4	34.0	38.1	41.7	19. 14. 18.56		19.68				7. 14. 19.93	- 1.44													
	14	λ Ursæ Minoris...	AC	28.7	35.1	43.0	49.0	11.2	17.6	27.0	35.9	...	...	19. 27. 53.06		16.11	16.58	0.47	.....															
	15	W. B. (2) XIX. 680	AC	49.2	52.0	54.6	0.2	3.0	6.0	14.0	16.8	19.5	22.6	19. 24. 5.83		5.85				19. 24. 6.10	- 3.20													
	16	48 Camelopardi S.P.	AC	32.0	37.0	...	46.8	1.5	6.4	11.3	...	26.1	30.9	19. 31. 1.43		2.89				7. 31. 3.14	- 1.44													
	17	W. B. XIX. 997 ..	AC	9.8	12.3	14.7	19.6	22.6	24.5	32.0	34.5	37.0	39.6	19. 41. 24.70		25.13				19. 41. 25.38	- 3.67													
	18	W. B. XIX. 1020.	AC	4.0	6.3	8.8	13.7	16.3	18.8	26.2	28.5	31.0	33.5	19. 42. 18.75		19.21				19. 42. 19.46	- 3.70													
	19	Groomb. 1369 S.P.	AC	5.7	13.9	22.4	30.4	...	...	...	...	...	...	19. 44. 54.08		56.48				7. 44. 56.73	- 1.26													
	20	W. B. (2) XIX. 1450	AC	...	...	...	...	...	45.7	55.8	58.9	2.6	6.2	19. 45. 45.53		45.25				19. 45. 45.50	- 3.06													
	21	Groomb. 1119 S.P.	AC	8.0	20.3	30.5	40.3	7.8	16.7	27.4	37.2	...	...	19. 52. 52.11		28.52				7. 53. 28.77	+ 10.92													
July 12	22	⊙ 1 L.	AC	33.5	36.1	38.9	44.2	47.0	49.7	57.8	0.2	3.0	5.7	7. 27. 49.65	(- 4.41)	57.92			0.25	7. 28. 58.16														
	23	⊙ 2 L.	AC	49.9	52.4	55.3	0.6	3.1	5.9	13.8	16.4	19.1	22.0	7. 30. 5.89																				
	24	κ Ophiuchi	CD	32.4	35.1	37.5	42.5	45.1	47.5	54.9	57.6	59.9	2.5	16. 52. 47.54			47.84	47.88	0.04	0.18	.....													
	25	α ¹ Herculis	CD	41.9	44.4	47.0	52.0	54.6	57.3	4.8	7.3	9.8	12.5	17. 9. 57.20			57.44	57.47	0.03	[- 0.20]	.....													
	26	Rigel	D	...	...	22.9	28.0	30.4	33.1	40.4	42.8	...	...	5. 9. 32.98	(- 4.88)		33.56	33.33	- 0.23	- 0.18	5. 9. 33.37	- 0.99												
	27	β Tauri	D	...	30.5	33.4	38.9	41.8	44.3	...	55.5	58.4	1.5	5. 19. 44.53	[+12.13]		44.60	44.44	- 0.16	[- 0.06]	5. 19. 44.41	- 1.43												
	28	Mercury 2 L.	D	...	15.2	18.0	23.2	25.8	28.6	36.5	39.4	42.0	...	6. 13. 28.64	+ 0.81		28.81				6. 13. 28.38													
July 13	29	⊙ 1 L.	D	37.5	40.2	42.9	48.1	50.7	53.5	1.3	4.0	6.9	9.5	7. 31. 53.50		1.86				7. 33. 1.66														
	30	⊙ 2 L.	D	53.9	56.3	59.3	4.5	6.9	9.8	17.8	20.5	22.9	26.2	7. 34. 9.85																				
	31	Regulus	D	36.2	38.6	41.1	...	...	51.4	...	1.3	4.0	6.5	10. 2. 51.32			51.64	51.41	- 0.23		10. 2. 51.43	- 1.41												
	32	Spica	D	29.5	32.0	34.4	39.6	42.1	44.6	52.0	54.5	56.9	59.9	13. 19. 44.59			45.21	45.00	- 0.21		13. 19. 45.00	- 2.23												
	33	Polaris S.P.	D	14.9	26.5	39.8	6.4	18.5	28.6	58.4	10.6	22.9	45.0	13. 20. 17.16			49.91	50.78	0.87															
	34	δ Ophiuchi	D	41.6	44.2	46.5	51.4	54.0	56.5	4.0	6.3	8.9	11.3	16. 8. 56.51			57.03	56.82	- 0.21		16. 8. 56.81	- 3.20												
	35	γ Herculis	D	7.1	9.8	12.4	17.6	20.2	23.0	30.6	33.3	35.9	38.6	16. 17. 22.89			23.10	22.88	- 0.22		16. 17. 22.88	- 3.02												
	36	κ Ophiuchi	H	...	...	...	45.3	47.9	55.2	57.8	0.3	2.8	16. 52. 47.84		48.19	47.88	- 0.31	- 0.29†	.....															
	37	Lalande F. 713 S.P.	D	...	17.0	33.1	48.9	36.2	52.7	8.8	40.2	56.3	...	16. 59. 36.33		41.25		- 0.18		4. 59. 41.03	- 0.45													
	38	η Ophiuchi	H	...	15.2	17.8	22.9	25.4	28.0	35.7	38.2	40.8	...	17. 4. 28.05		28.75	28.36	- 0.39	- 0.29†	.....														
	39	α ¹ Herculis	H	42.1	44.5	47.2	52.2	54.9	57.6	5.1	7.6	10.2	12.8	17. 9. 57.46		57.75	57.47	- 0.28		.....														
	40	Piazzi XVII. 31...	D	...	29.5	...	37.8	...	43.3	...	54.1	...	59.7	17. 11. 43.29		44.12		- 0.18		17. 11. 43.90	- 3.90													
	41	39 Ophiuchi	D	27.1	...	32.5	...	40.6	...	51.4	...	56.6	...	17. 11. 43.31		44.14				17. 11. 43.92	- 3.90													
	42	Oeltz. Arg. (N.) 5228 S.P.	D	...	...	...	33.8	41.1	50.4	7.1	15.8	24.2	17. 27. 32.78		35.58				5. 27. 35.36	- 1.17														
	43	ψ ¹ Draconis ...R.	D	1.6	10.0	18.2	33.9	...	50.6	13.9	22.2	...	...	17. 43. 50.30		50.56				17. 43. 50.34	- 3.33													
	44	Groomb. 1031 S.P.	D	...	...	...	...	...	...	26.6	36.3	44.9	17. 51. 51.12		54.00				5. 51. 53.78	- 1.13														
	45	72 Ophiuchi	D	13.4	15.8	18.3	23.3	25.8	28.3	35.7	38.2	40.8	43.4	18. 2. 28.34		28.69	28.48	- 0.21		18. 2. 28.46	- 3.39													
	46	Carrington 866 S.P.	D	12.1	36.4	59.1	21.7	29.7	53.5	16.4	1.2	25.1	47.8	18. 8. 29.96		36.89				6. 8. 36.66	+ 0.35													
	47	Piazzi VI. 75 S.P.	C	...	...	...	...	...	39.4	53.3	21.2	34.8	48.7	18. 28. 25.71		30.02				6. 28. 29.79	- 0.64													
	48	Lalande F. 3178...	D	12.6	33.0	54.3	35.4	59.7	40.4	0.5	21.6	...	...	18. 49. 17.19		5.85				18. 49. 5.62	- 6.73													
	49	Groombridge 2742	D	...	...	57.8	8.0	13.4	18.6	34.3	40.0	...	...	18. 56. 18.79		17.90				18. 56. 17.67	- 3.11													
	50	ψ Sagittarii	D	56.9	59.8	2.5	8.0	10.5	13.3	21.5	24.3	27.0	29.9	19. 9. 13.41		14.26	14.06	- 0.20		19. 9. 14.03	- 4.28													
	51	Lalande 14161 S.P.	D	...	...	...	...	17.0	21.2	24.9	32.8	36.4	40.5	19. 14. 17.16		18.43				7. 14. 18.20	- 1.47													
	52	20 Lynceis S.P. ...	D	...	...	...	...	18.8	22.7	26.9	34.2	38.2	42.3	19. 14. 18.88		20.15				7. 14. 19.92	- 1.47													

Correction for passage of Semidiameter, No. 28, — 0.23.

July 12^d 22^h. The rate of the Sidereal Standard Clock was altered.

3. Observed over wire Q with the transit-micrometer set to readings 34°249, 34°394, 34°530, 34°670, 35°206, 35°350, 35°476, 35°934.

4, 42. Observed in partially illuminated field.

7. Observed over wire T with the transit-micrometer set to readings 34°000, 34°300, 34°600, 34°900, 36°300, 36°600, 36°900, 37°200.

8. Observed over wire X with the transit-micrometer set to readings 37°788, 37°655, 37°522, 37°359, 36°664, 36°478, 36°329, 36°195.

14. Observed over wire Q with the transit-micrometer set to readings 35°963, 36°013, 36°055, 36°101, 36°259, 36°300, 36°373, 36°451.

21. Observed over wire T with the transit-micrometer set to readings 36°821, 36°710, 36°659, 36°555, 36°375, 36°322, 36°248, 36°170.

26. Unsteady.

33. Observed over wire X with the transit-micrometer set to readings 35°463, 35°350, 35°214, 34°985, 34°860, 34°778, 34°503, 34°424, 34°302, 34°123.

42. Very faint.

48. Observed over wire T with the transit-micrometer set to readings 32°600, 33°100, 33°600, 34°600, 36°600, 37°600, 38°100, 38°600.

51, 52. Observed in dark field with wires illuminated.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
July 13	1	λ Ursæ Minoris ..	D	9.1	21.0	57.6	6.4	17.2	35.1	45.5	52.8	19.3	...	19.27.54.13	+ 0.81	15.04	15.98	0.94	- 0.18	.....	
	2	ι Cygni.....	D	44.9	48.7	53.0	0.6	4.6	8.7	20.5	24.5	28.4	32.7	19.27.8.72	(- 4.88)	8.28			[- 0.06]	19.27.8.05	- 3.06
	3	Radcliffe 4489 ...	D	34.3	52.2	9.3	26.3	44.0	1.3	19.1	35.4	52.9	9.6	19.36.52.44	[+ 12.13]	43.12				19.36.42.89	- 5.69
	4	Groombridge 2944	D	24.6	28.0	31.6	38.3	41.8	45.4	55.5	59.1	2.3	6.0	19.45.45.31		45.07				19.45.44.84	- 3.07
	5	W.B.(2) XIX. 1450	D	25.1	28.3	32.0	38.6	42.1	45.7	55.9	59.4	2.8	6.3	19.45.45.67		45.43				19.45.45.20	- 3.07
	6	Groombridge 2959	D	44.9	48.0	51.2	57.6	0.5	3.9	...	...	...	...	19.49.3.85		3.74				19.49.3.51	- 3.11
	7	Groombridge 2961	D	...	8.0	11.2	17.5	20.6	23.9	33.1	36.3	39.5	...	19.49.23.82		23.71				19.49.23.48	- 3.11
	8	Piazzi VII. 260 S.P.	D	14.2	18.2	22.5	26.8	39.4	43.6	48.0	56.3	0.9	5.0	19.54.39.43		40.83				7.54.40.60	- 1.51
	9	Groombridge 3018	D	...	...	...	...	...	...	13.9	17.2	20.4	23.8	19.59.4.58		4.45				19.59.4.22	- 3.09
	10	64 Aquilæ	D	28.0	30.5	33.0	37.8	40.4	42.9	50.2	52.6	55.1	57.8	20.2.42.87		43.36				20.2.43.13	- 3.62
	11	Aldebaran	CD	42.9	45.5	48.2	53.1	55.8	58.5	6.0	8.5	11.2	13.8	4.29.58.39		58.65	58.56	- 0.09	- 0.15	4.29.58.52	- 1.47
	12	α Orionis	CD	...	20.8	23.4	28.3	30.8	...	...	...	...	...	5.49.33.33		33.70	33.62	- 0.08	[+ 0.13]	5.49.33.58	- 1.17
	13	Mercury 2 L.....	CD	12.8	15.8	18.4	23.8	26.5	29.3	37.4	39.9	42.4	45.4	6.20.29.21		29.38				6.20.29.04	
July 14	14	⊙ 1 L.....	CD	40.8	43.4	46.3	51.6	54.2	56.9	4.8	7.5	10.0	12.7	7.35.56.86						7.37.4.90	
	15	⊙ 2 L.....	CD	56.8	59.6	2.2	7.5	10.1	12.8	20.8	23.3	25.9	28.5	7.38.12.79							
	16	γ Herculis.....	AC	...	9.6	12.3	17.5	...	...	30.4	33.1	35.9	...	16.17.22.75	(- 5.97)	22.90	22.88	- 0.02	- 0.10†	.....	
	17	λ Ophiuchi	AC	27.9	30.4	32.9	37.8	40.3	42.9	50.1	52.5	55.1	57.7	16.25.42.80		43.20	43.21	0.01		.....	
	18	β Ophiuchi	CD	8.3	10.8	13.3	18.3	20.7	23.3	30.4	33.0	35.5	38.1	17.38.23.21		23.57	23.44	- 0.13	- 0.15	17.38.23.52	- 3.40
	19	α Lyræ.....	CD	9.3	12.5	15.8	22.1	25.2	28.4	...	...	...	...	18.33.28.40		28.20	28.14	- 0.06		18.33.28.15	- 3.13
July 15	20	⊙ 1 L.....	H	43.8	46.4	49.1	54.4	57.1	59.8	7.7	10.3	12.9	15.7	7.39.59.76					- 0.02	7.41.7.89	
	21	⊙ 2 L.....	H	...	2.5	5.1	10.4	13.2	15.7	23.5	26.2	29.0	...	7.42.15.75							
July 17	22	⊙ 1 L.....	J	...	...	...	...	...	...	11.1	13.6	16.2	18.8	7.48.3.06	(- 3.59)				0.38	7.49.11.38	
	23	⊙ 2 L.....	J	...	...	7.8	13.2	15.8	18.4	26.3	29.2	...	...	7.50.18.50	[+ 9.75]				[+ 0.13]		
	24	γ Leonis	J	...	...	...	...	...	...	28.4	31.0	2.6	10.14.15.25		15.45	15.88	0.43		10.14.15.89	- 1.54	
	25	δ Ursæ Minoris...	J	35.2	46.0	52.5	57.3	4.6	10.7	16.0	21.8	28.1	33.2	18.6.5.36		56.62	56.87	0.25		.....	
	26	η Serpentis	J	43.7	46.1	48.4	53.3	55.8	58.3	5.7	8.2	10.6	13.0	18.15.58.35		58.79	59.24	0.45		18.15.59.27	- 3.61
	27	109 Herculis.....	J	2.5	...	...	13.2	15.9	18.6	26.5	29.0	31.7	34.5	18.19.18.55		18.73				18.19.19.21	- 3.27
	28	Piazzi XVIII. 100	J	3.4	6.1	8.8	14.2	16.8	19.6	27.7	30.2	33.0	35.9	18.25.19.61		19.77				18.25.20.25	- 3.25
	29	1 Aquilæ.....R.	J	20.5	22.9	25.4	30.3	32.8	35.4	42.8	45.2	47.8	50.2	18.29.35.37		36.10				18.29.36.58	- 3.77
	30	2 Aquilæ	J	22.6	24.9	27.7	32.3	34.9	37.4	44.9	47.4	49.9	52.5	18.36.37.49		37.99	38.50	0.51		18.36.38.47	- 3.80
	31	111 Herculis	J	...	...	...	23.0	25.5	28.3	35.9	38.1	41.1	43.9	18.42.28.25		28.47				18.42.28.95	- 3.34
	32	Cephei 51 S.P....	J	11.8	22.5	30.6	38.0	18.9	24.8	33.7	20.1	...	...	18.51.31.19		42.59	42.80	0.21		.....	
	33	ε Aquilæ	J	41.2	43.8	46.4	51.7	54.1	56.8	4.4	6.8	9.2	11.9	18.54.56.66		56.95	57.48	0.53		18.54.57.43	- 3.39
	34	ζ Aquilæ	J	25.2	27.7	30.2	...	...	40.4	...	50.5	53.0	55.7	19.0.40.41		40.68	41.16	0.48		19.0.41.16	- 3.40
	35	B.D.+31° No. 3485	J	32.9	35.8	38.7	44.5	47.3	50.3	58.7	1.8	4.5	7.6	19.6.50.25		50.30				19.6.50.78	- 3.20
	36	19 Lyræ.....	J	31.9	34.7	37.9	43.5	46.3	49.4	57.9	0.8	3.8	6.7	19.7.49.33		49.38				19.7.49.86	- 3.21
	37	ω Aquilæ.....R.	J	43.3	45.7	48.3	53.2	55.7	58.5	...	...	11.0	...	19.12.58.37		59.04	59.50	0.46		19.12.59.52	- 3.45
	38	λ Ursæ Minoris ..	J	14.7	21.2	25.9	31.5	50.0	55.9	16.8	36.5	46.2	53.9	19.27.43.25		13.39	15.02	1.63		.....	
	39	β Aquilæ	J	...	...	4.9	9.8	12.4	14.9	22.3	24.9	...	...	19.50.14.92		15.26	15.76	0.50		19.50.15.75	- 3.54
	40	64 Aquilæ	J	27.5	...	32.4	...	39.6	42.4	49.6	52.2	...	57.2	20.2.42.32		42.73				20.2.43.22	- 3.67
	41	W.B.(2) XX. 170	J	...	5.3	8.2	...	...	20.3	...	32.4	35.5	...	20.6.20.38		20.38				20.6.20.87	- 3.15
	42	W.B.(2) XX. 171	J	4.4	7.3	10.7	16.9	19.8	22.9	31.9	34.9	37.9	41.1	20.6.22.83		22.83				20.6.23.32	- 3.15
	43	W.B.(2) XX. 244-5	J	43.4	46.3	49.6	55.7	58.6	1.8	10.9	13.8	16.9	20.2	20.8.1.77		1.77				20.8.2.26	- 3.15
	44	ε Aquarii.....	H	50.8	53.2	55.7	0.6	3.1	5.7	13.0	15.7	18.2	20.8	20.42.5.72		6.23	6.55	0.32	0.21	.....	
July 18	45	⊙ 1 L.....	WB	48.3	50.9	53.5	58.7	1.5	4.2	11.8	14.6	17.3	20.0	7.52.4.12					0.50	7.53.12.43	
	46	⊙ 2 L.....	WB	3.3	6.0	8.6	14.0	16.6	...	...	...	...	...	7.54.19.27							
	47	Polaris S.P.	WB	16.5	22.0	31.1	36.5	44.4	51.6	0.9	7.3	17.9	26.6	13.20.31.18		56.24	55.83	- 0.41		.....	
	48	Arcturus	WB	40.9	43.5	46.2	51.3	54.0	56.6	4.5	7.1	9.8	12.4	14.10.56.67		56.87	57.46	0.59		.....	
	49	⊙ 1 L.....	WB	47.4	50.1	52.8	58.4	1.0	3.6	11.8	14.4	17.3	20.1	14.27.3.73		4.37				14.28.16.33	
	50	β Libræ	WB	11.4	13.7	16.4	21.4	23.8	26.4	33.7	36.3	38.8	41.3	15.11.26.36		26.86	27.44	0.58		.....	

Corrections for passage of Semidiameter, Nos. 13 and 49, — 0.22 and + 71.35.

- Observed over wire R with the transit-micrometer set to readings 34° 689, 34° 785, 35° 068, 35° 114, 35° 205, 35° 330, 35° 405, 35° 450, 35° 604.
- Observed over wire T with the transit-micrometer set to readings 31° 600, 32° 100, 32° 600, 33° 100, 33° 600, 37° 600, 38° 100, 38° 600, 39° 100, 39° 600.
- Observed in partially illuminated field.
- Observed over wire X with the transit-micrometer set to readings 34° 623, 34° 878, 35° 040, 35° 134, 35° 323, 35° 456, 35° 612, 35° 730, 35° 876, 36° 012.
- Observed over wire U with the transit-micrometer set to readings 36° 550, 36° 333, 36° 188, 36° 010, 35° 330, 35° 194, 34° 939, 34° 030.
- Observed over wire T with the transit-micrometer set to readings 37° 123, 37° 170, 37° 210, 37° 240, 37° 371, 37° 412, 37° 570, 37° 715, 37° 780, 37° 835.
- Faint; cloudy. Observed over wire P with the transit-micrometer set to readings 34° 928, 34° 882, 34° 789, 34° 742, 34° 680, 34° 628, 34° 514, 34° 473, 34° 377, 34° 327.
- Very faint; cloudy. Correction to R.A. on true meridian, + 0.03.

MONTH.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h	m	s	#	s	s	s	s	h	m	s	s	
1898.																						
July 18	1	γ Ursæ Minoris...	WB	8.4	16.4	24.8	40.5	48.8	57.1	20.9	29.1	37.2	45.5	15. 20. 56.99	+ 0.81	55.68			0.50	15. 20. 56.26	- 2.78	
	2	α Coronæ	WB	2.4	5.2	8.0	13.5	16.3	19.1	27.3	30.1	32.8	35.8	15. 30. 19.09	(- 3.59)	19.20	19.80	0.60	[+ 0.13]			
	3	ϵ Serpentis	WB	...	...	...	...	...	...	47.3	49.7	52.2	54.7	15. 45. 39.89	[+ 9.75]	40.24	40.83	0.59	.....			
	4	β Libræ	WB	25.9	28.3	30.9	35.9	38.4	40.9	48.4	50.9	53.3	56.1	15. 58. 40.94		41.47			15. 58. 42.06	- 3.22		
	5	Antares	WB	47.4	50.4	52.9	58.5	1.3	4.3	12.2	14.8	17.8	20.7	16. 23. 4.07		4.78	5.39	0.61	.....			
	6	ζ Herculis.....	WB	6.6	9.7	12.7	18.4	21.3	24.3	32.9	35.7	38.7	41.6	16. 37. 24.23		24.28	24.83	0.55	.....			
	7	α^1 Herculis.....	WB	41.3	43.8	46.4	51.3	53.9	56.5	4.2	6.8	9.4	12.0	17. 9. 56.60		56.86	57.45	0.59	.....			
	8	ρ^1 Herculis.....	WB	49.1	52.2	...	...	...	...	...	...	...	...	17. 20. 7.78		7.75			17. 20. 8.34	- 3.01		
	9	ρ^2 Herculis.....	WB	...	...	55.8	1.9	4.9	8.1	17.3	20.4	...	...	17. 20. 8.13		8.10			17. 20. 8.69	- 3.01		
	10	τ Ophiuchi (N. Star)	WB	12.6	15.0	17.7	22.7	25.1	27.5	35.0	37.4	40.1	42.5	17. 57. 27.60		28.09			17. 57. 28.69	- 3.69		
	11	δ Ursæ Minoris...	WB	11.2	18.2	30.5	35.2	43.7	49.2	0.1	5.3	14.8	20.0	18. 6. 6.23		57.49	56.65	- 0.84	.....			
July 19	12	γ Ursæ Minoris...	RC	8.3	16.3	24.8	40.7	48.9	57.0	20.8	29.2	37.2	45.8	15. 20. 57.02	(- 4.27)	55.57			0.62	15. 20. 56.16	- 2.71	
	13	δ i L.	RC	46.5	49.2	52.1	57.6	0.4	3.3	11.6	14.4	17.2	20.2	15. 27. 3.29		3.98			[- 0.04]	15. 28. 17.92		
	14	α Coronæ	RC	2.5	5.1	8.0	13.4	16.3	19.1	27.3	30.1	32.9	35.7	15. 30. 19.08		19.14	19.79	0.65	.....			
	15	α Ophiuchi	RC	53.8	56.0	58.7	3.7	6.3	8.9	16.4	18.9	21.4	24.0	17. 30. 8.85		9.10	9.63	0.53	.....			
July 20	16	$\odot$ i L.	AC	48.8	51.3	54.0	59.5	2.1	...	12.5	15.3	17.9	20.7	8. 0. 4.72	+ 1.18	12.48			0.59	8. 1. 13.05		
	17	$\odot$ 2 L.	AC	3.8	6.5	9.2	14.4	17.0	19.8	27.7	30.3	33.0	35.7	8. 2. 19.78	(- 4.87)				[- 0.07]			
	18	β^1 Scorpii.....	AC	9.5	12.2	14.8	19.9	22.6	25.2	33.1	35.7	38.2	41.0	15. 59. 25.26	[+ 12.23]		26.04	26.56	0.52			
	19	γ Herculis.....	AC	6.3	8.9	11.6	16.8	19.4	22.1	29.8	32.4	35.0	37.7	16. 17. 22.04		22.28	22.83	0.55	.....			
	20	Antares	AC	47.5	50.3	53.0	58.5	1.2	4.0	12.1	14.8	17.8	20.4	16. 23. 4.00		4.89	5.37	0.48	.....			
	21	τ Scorpii	AC	9.6	12.7	15.5	20.9	23.9	26.5	...	...	...	...	16. 29. 26.59		27.51			16. 29. 28.05	- 3.72		
	22	δ i L.	AC	35.8	38.7	41.7	47.3	50.3	53.2	1.7	4.4	7.6	10.5	16. 29. 53.16		54.08			16. 31. 9.30			
	23	ζ Herculis.....	S	6.9	9.8	12.7	18.5	21.5	24.5	33.1	36.0	38.9	41.8	16. 37. 24.41		24.46	24.80	0.34	0.39	.....		
	24	κ Ophiuchi	S	32.0	34.4	37.1	42.0	44.6	47.2	54.6	57.1	59.6	2.2	16. 52. 47.12		47.50	47.84	0.34	.....			
	25	Bradley 2182.....	S	32.5	35.1	37.9	43.2	46.0	48.8	56.8	59.4	2.2	5.1	17. 11. 48.74		49.60			17. 11. 49.94	- 3.89		
	26	Groomb. 1045 S.P.	AO	15.8	20.6	25.4	29.8	43.7	48.0	52.2	1.4	6.1	10.3	17. 51. 43.26		44.72		0.59	5. 51. 45.26	- 1.73		
	27	δ Ursæ Minoris ...	AO	39.1	47.7	55.4	3.8	4.9	51.8	0.0	7.9	...	...	18. 6. 6.87		55.75	56.15	0.40	.....			
	28	Groomb. 1151 S.P. R.	AC	6.7	18.7	30.8	42.5	...	...	...	...	...	...	18. 24. 18.18		19.82			6. 24. 20.36	- 1.33		
	29	Groomb. 1151 S.P.	AC	...	...	...	...	...	28.5	40.7	4.3	16.5	28.4	18. 24. 16.51		20.19			6. 24. 20.73	- 1.33		
	30	i Aquilæ	AC	20.5	22.9	25.5	30.4	32.9	35.5	42.8	45.3	47.9	50.3	18. 29. 35.44		36.06			18. 29. 36.60	- 3.78		
	31	2 Aquilæ	R. AC	22.0	24.4	27.0	32.0	34.5	37.1	44.3	46.8	49.3	51.8	18. 36. 36.96		37.92	38.51	0.59	.....			
	32	Groomb. 1238 S.P.	AC	...	...	...	...	10.6	18.1	25.1	39.2	...	...	18. 51. 10.78		13.04			6. 51. 13.57	- 1.58		
	33	Cephei 51 S.P.	AC	43.7	49.8	55.7	0.9	23.3	28.8	37.5	43.2	...	...	18. 51. 26.72		43.18	43.48	0.30	.....			
	34	Carrington 2865 ..	AC	...	...	39.6	15.3	33.5	51.4	...	3.7	...	...	18. 53. 51.80		47.28			18. 53. 47.81	- 3.87		
	35	19 Lyræ.....	R. AC	31.2	34.0	37.0	42.7	45.5	48.5	...	...	...	...	19. 7. 48.50		49.28			19. 7. 49.81	- 3.21		
	36	Groomb. 2815 ...	AC	31.6	35.2	39.1	46.5	50.3	54.2	5.4	9.1	13.1	16.9	19. 15. 54.20		53.87			19. 15. 54.40	- 3.07		
	37	Oeltz. Arg. (N.) 19180	AC	22.0	26.1	30.2	38.5	42.8	46.8	59.1	3.2	7.5	11.7	19. 17. 46.85		46.39			19. 17. 46.92	- 3.06		
	38	λ Ursæ Minoris ...	AC	43.6	50.9	57.3	3.2	25.3	32.4	40.1	47.5	...	...	19. 27. 51.42		13.49	13.90	0.41	.....			
	39	Groomb. 1331 S.P.	AC	...	...	...	...	59.9	4.3	8.4	16.9	21.1	25.2	19. 28. 59.97		1.33			7. 29. 1.86	- 1.63		
	40	Groomb. 1367 S.P.	AC	37.8	42.9	47.9	52.9	8.0	13.1	18.2	28.2	33.2	38.2	19. 41. 7.96		9.58			7. 41. 10.11	- 1.63		
	41	W.B.(2) XIX. 1417	AC	...	...	...	...	...	2.5	5.7	8.9	12.3	19. 44. 53.01		52.91			19. 44. 53.44	- 3.15			
	42	Groomb. 1119 S.P.	AC	52.7	0.2	9.2	16.7	39.4	46.0	53.7	59.5	...	...	19. 52. 52.04		29.54			7. 53. 30.07	+ 9.43		
	43	W.B.(2) XIX. 1799	AC	36.6	40.1	43.8	50.5	53.9	57.4	7.5	10.9	14.3	17.9	19. 55. 57.34		57.15			19. 55. 57.68	- 3.12		
	44	ρ Capricorni	AC	...	45.5	48.1	53.1	55.8	58.5	6.2	8.8	11.4	...	20. 22. 58.48		59.24	59.81	0.57	.....			
	45	71 Aquilæ	R. AC	45.3	47.8	50.4	55.1	57.8	0.3	...	...	...	...	20. 33. 0.21		1.14			20. 33. 1.67	- 3.69		
	46	β Tauri	R	27.3	29.9	32.9	38.4	41.3	44.1	52.4	55.1	58.0	1.0	5. 19. 44.08	[+ 13.24]	44.21	44.66	0.45	0.33	5. 19. 44.56	- 1.65	
	47	α Orionis	R	17.9	20.5	22.9	27.9	30.4	33.0	40.3	42.8	45.3	47.9	5. 49. 32.93		33.39	33.77	0.38	[+ 0.07]	5. 49. 33.74	- 1.32	
	48	Sirius	R	17.9	20.6	23.3	28.3	30.9	33.5	41.1	43.9	46.5	48.9	6. 40. 33.53		34.33			6. 40. 34.68	- 0.67		
	49	Pollux	R	41.3	43.8	46.9	52.5	55.2	58.0	6.3	8.9	12.0	14.9	7. 38. 58.02		58.16	58.55	0.39		7. 38. 58.51	- 1.41	
July 21	50	$\odot$ i L.	R	48.2	51.1	53.7	59.1	1.6	4.3	11.8	14.7	17.2	19.9	8. 4. 4.20		11.97				8. 5. 12.32		
	51	$\odot$ 2 L.	R	...	...	8.7	13.8	16.4	19.2	27.1	29.7	...	...	8. 6. 19.20								

Corrections for passage of Semidiameter, Nos. 13 and 22, + 73".32 and + 74".64.

7. Faint; cloudy.

11. Observed over wire Q with the transit-micrometer set to readings 35".412, 35".568, 35".870, 36".000, 36".192, 36".338, 36".541, 36".697, 36".916, 37".056.

13. Correction to R.A. on true meridian, + 0".03.

22. Correction to R.A. on true meridian, + 0".04.

25. Very faint; cloudy.

27. Observed over wire T with the transit-micrometer set to readings 34".935, 35".148, 35".339, 35".527, 36".436, 36".685, 36".860, 37".040.

33. Observed over wire W with the transit-micrometer set to readings 36".245, 36".131, 36".000, 35".915, 35".450, 35".338, 35".200, 35".069.

38. Observed over wire R with the transit-micrometer set to readings 35".400, 35".460, 35".505, 35".543, 35".710, 35".750, 35".804, 35".856.

39, 41. Observed in dark field with wires illuminated.

42. Observed over wire Q with the transit-micrometer set to readings 35".585, 35".494, 35".425, 35".362, 35".222, 35".173, 35".110, 35".061.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
July 21	1	Regulus	R	35.6	37.9	40.5	45.6	48.1	50.7	58.3	0.7	3.5	5.8	10. 2. 50.71	+ 1.18	51.10	51.40	0.30	0.33	10. 2. 51.46	- 1.40	
	2	Piazzi XVII. 359.	R	15.7	18.5	21.4	27.0	29.8	32.7	41.0	43.8	46.6	49.5	18. 1. 32.64	(- 4.87)	33.64			[+ 0.07]	18. 1. 34.02	- 4.26	
	3	δ Ursæ Minoris...	R	36.4	54.1	8.1	21.2	37.0	49.4	3.0	14.8	30.1	41.9	18. 6. 8.28	[+ 13.24]	56.50	55.87	- 0.63		.....		
	4	η Serpentis	R	...	...	...	...	...	...	5.7	8.1	10.7	13.2	18. 15. 58.37		58.98	59.24	0.26		18. 15. 59.36	- 3.61	
	5	λ Sagittarii	R	19.6	22.2	25.0	30.5	33.1	35.9	44.1	46.8	49.5	52.4	18. 21. 35.95		36.91	37.31	0.40		18. 21. 37.29	- 4.23	
	6	α Aquilæ	R	...	22.6	25.2	30.1	32.5	35.2	42.5	45.0	47.5	...	18. 29. 35.13		36.15				18. 29. 36.53	- 3.78	
	7	α Lyræ	R	8.6	11.7	15.1	21.5	24.6	27.8	37.1	40.4	43.6	46.9	18. 33. 27.78		27.72	28.13	0.41		18. 33. 28.10	- 3.12	
	8	2 Aquilæ	R	22.4	24.9	27.5	32.3	34.9	37.5	44.9	47.4	49.8	52.5	18. 36. 37.45		38.15	38.52	0.37		18. 36. 38.53	- 3.81	
	9	Cephei 51 S.P. ...	R	33.6	48.7	0.0	12.9	27.2	47.5	2.5	15.8	28.5	41.6	18. 51. 27.24		42.61	43.77	1.16		.....		
	10	ζ Aquilæ	R	25.2	27.8	30.4	35.4	38.0	40.5	48.0	50.5	53.1	55.7	19. 0. 40.50		40.87	41.18	0.31		19. 0. 41.26	- 3.42	
	11	ψ Sagittarii	R	56.3	58.9	1.9	7.2	10.0	12.9	20.9	23.8	26.4	29.3	19. 9. 12.80		13.76	14.13	0.37		19. 9. 14.15	- 4.35	
	12	ω Aquilæ	R	...	45.6	48.3	53.1	55.6	58.3	5.7	8.2	10.7	...	19. 12. 58.24		59.16	59.52	0.36		19. 12. 59.55	- 3.47	
	13	λ Ursæ Minoris...	R	35.0	51.7	6.3	17.8	33.8	51.1	5.2	18.5	30.8	44.2	19. 27. 50.61		10.37	13.38	3.01		.....		
	14	e Sagittarii	R	33.5	35.9	38.5	43.6	46.2	48.8	56.4	58.9	1.6	4.3	19. 34. 48.81		49.61	49.96	0.35		19. 34. 50.00	- 4.08	
	15	α Aquilæ	R	30.3	32.5	35.2	40.1	42.6	45.3	52.5	55.1	57.7	0.3	19. 45. 45.20		45.65	46.05	0.40		19. 45. 46.04	- 3.55	
	16	Groomb. 1119 S.P. ...	R	48.0	4.0	17.1	32.3	46.4	59.2	16.3	27.5	41.7	56.3	19. 52. 48.50		28.30				7. 53. 28.69	+ 9.05	
	17	θ Aquilæ	H	...	46.8	49.3	...	...	59.1	...	9.0	11.5	...	20. 5. 59.18		59.76	59.99	0.23	0.24	.....		
	18	α Capricorni	H	...	7.2	9.8	14.8	17.3	19.9	27.5	30.0	32.4	...	20. 12. 19.91		20.65	21.02	0.37		.....		
July 22	19	⊙ 1 L.	EB	47.4	49.9	52.5	...	...	...	...	13.6	16.2	18.9	8. 8. 3.11	[+ 10.90]	3.29			0.48	8. 9. 11.19		
	20	ν Coronæ	EB	19.8	22.7	25.7	31.3	34.1	36.9	45.4	48.3	51.1	54.1	16. 12. 36.98		37.03			[+ 0.15]	16. 12. 37.61	- 2.85	
	21	η Ursæ Minoris...	EB	35.3	45.5	56.0	16.3	26.3	36.8	...	...	...	...	16. 20. 36.73		34.57				16. 20. 35.15	- 2.75	
	22	ζ Herculis	EB	6.7	9.7	12.5	18.3	21.2	24.2	32.7	35.7	38.5	41.7	16. 37. 24.16		24.18	24.78	0.60		.....		
	23	α Camelopardi S.P. ...	EB	5.2	11.5	17.8	23.9	41.9	48.3	54.5	...	...	...	16. 43. 41.98		43.75				4. 43. 44.33	- 1.96	
	24	11 Camelopardi S.P. ...	EB	37.1	41.8	46.7	51.6	5.8	10.5	15.4	24.9	29.7	34.3	16. 57. 5.71		7.08				4. 57. 7.67	- 1.92	
	25	12 Camelopardi S.P. ...	EB	40.3	45.0	50.0	54.7	8.9	13.9	18.7	28.1	33.0	37.7	16. 57. 8.96		10.33				4. 57. 10.92	- 1.92	
	26	Capella S.P.	EB	39.2	42.8	46.3	50.0	0.6	3.9	7.6	14.6	18.3	21.8	17. 9. 0.46		1.44				5. 9. 2.03	- 1.85	
	27	θ Ophiuchi	EB	23.5	26.2	28.9	34.3	37.1	39.9	47.8	50.5	53.5	56.2	17. 15. 39.83		40.60	41.15	0.55		.....		
	28	Radcliffe 3714	EB	53.8	58.8	3.7	13.6	18.7	23.6	38.3	43.2	48.3	53.4	17. 24. 23.61		22.90				17. 24. 23.49	- 2.86	
	29	α Ophiuchi	EB	...	...	...	...	...	...	16.2	18.8	21.3	24.0	17. 30. 8.76		9.04	9.61	0.57		.....		
	30	Piazzi XVII. 255.	EB	...	...	...	...	...	...	27.1	29.6	32.2	34.9	17. 44. 19.25		19.44				17. 44. 20.03	- 3.21	
	31	Groomb. 1045 S.P. ...	EB	16.4	21.0	25.6	30.1	43.4	48.2	52.5	1.6	6.2	10.9	17. 51. 43.52		44.82				5. 51. 45.41	- 1.81	
	32	γ Draconis	EB	...	...	...	...	10.0	14.2	25.9	29.8	33.8	38.0	17. 54. 14.12		13.72				17. 54. 14.31	- 2.94	
	33	Piazzi XVII. 359.	EB	15.7	18.4	21.2	26.8	29.6	32.6	10.5	43.8	46.4	49.5	18. 1. 32.53		33.36				18. 1. 33.95	- 4.26	
	34	δ Ursæ Minoris...	EB	54.0	2.1	10.9	21.7	29.0	36.5	15.1	52.7	59.8	6.8	18. 6. 5.44		55.18	55.58	0.40		.....		
	35	Oeltz Arg. (N.) 6629 S.P. ...	EB	35.8	43.7	51.6	59.6	22.2	29.6	37.8	53.1	0.9	8.7	18. 9. 22.10		24.40				6. 9. 24.99	- 1.72	
	36	Piazzi XVIII. 24.	EB	18.7	21.4	24.3	29.8	32.5	35.5	43.7	46.4	49.1	52.0	18. 11. 35.38		36.19				18. 11. 36.78	- 4.25	
	37	⊙ 1 L.	EB	54.9	57.8	0.8	6.4	9.4	12.4	20.8	23.7	26.5	29.6	18. 37. 12.27		13.09				18. 38. 27.04		
	38	Cephei 51 S.P. ...	EB	29.8	37.6	44.4	5.6	12.3	22.4	38.3	45.6	2.0	7.4	18. 51. 29.35		42.60	44.08	1.48		.....		
	39	ε Aquilæ	EB	41.2	43.8	46.4	51.5	54.0	56.7	4.2	6.8	9.3	12.1	18. 54. 56.64		56.90	57.49	0.59		.....		
	40	τ Sagittarii	EB	12.9	15.7	18.3	...	...	29.9	...	40.9	43.6	46.5	19. 0. 29.72		30.54				19. 0. 31.14	- 4.42	
	41	ψ Sagittarii	EB	56.3	59.2	1.8	7.1	9.9	12.7	20.8	23.6	26.2	29.1	19. 9. 12.71		13.50	14.13	0.63		.....		
	42	λ Ursæ Minoris...	EB	24.0	58.9	10.5	32.8	57.7	26.4	46.7	21.4	34.8	52.1	19. 27. 45.89		10.99	12.80	1.81		.....		
July 23	43	⊙ 1 L.	H	45.5	48.0	50.7	55.9	58.5	1.4	9.1	11.8	14.5	17.1	8. 12. 1.29	(- 4.06)	8.90			0.53	8. 13. 9.46		
	44	⊙ 2 L.	H	0.3	2.9	5.5	10.8	13.3	16.1	23.8	26.4	29.1	31.9	8. 14. 16.05					[+ 0.10]			
	45	Polaris S.P.	H	7.6	18.5	44.4	54.4	8.2	15.6	32.2	41.1	49.8	8.4	13. 20. 32.81		0.09	1.32	1.23		.....		
	46	δ Ophiuchi	H	40.8	43.2	45.7	50.5	53.1	55.7	2.9	5.4	7.9	10.4	16. 8. 55.60		56.11	56.75	0.64		.....		
	47	γ Herculis	H	6.2	8.8	11.4	...	...	21.9	...	32.3	35.0	37.7	16. 17. 21.93		22.17	22.80	0.63		.....		
	48	ε Scorpii	H	10.0	13.1	16.0	22.0	25.0	28.0	36.8	39.9	42.9	46.0	16. 43. 28.01		28.95				16. 43. 29.55	- 3.96	
	49	11 Camelopardi S.P. ...	H	37.4	42.2	46.9	51.9	5.9	10.6	15.6	25.0	29.9	34.5	16. 57. 5.92		7.25				4. 57. 7.85	- 1.97	
	50	12 Camelopardi S.P. ...	H	40.4	45.3	50.2	54.8	9.1	13.9	18.7	28.3	33.0	37.8	16. 57. 9.08		10.41				4. 57. 11.01	- 1.97	
	51	α Herculis	H	41.1	43.6	46.3	51.3	53.9	56.5	4.0	6.5	9.2	11.9	17. 9. 56.47		56.77	57.42	0.65		.....		
	52	31 Camelopardi S.P.R. ...	H	9.7	14.8	19.5	24.5	...	...	...	...	...	...	17. 45. 39.14		40.12				5. 45. 40.72	- 1.87	

Corrections for passage of Semidiameter, Nos. 19 and 37, + 67".37 and + 73".32.

2. Faint; cloudy.
3. Observed over wire W with the transit-micrometer set to readings 35".599, 36".030, 36".363, 36".686, 37".041, 37".351, 37".676, 37".950, 38".326, 38".600.
4. 19. Cloudy.
6, 12. Diffused; windy.
9. Observed over wire V with the transit-micrometer set to readings 36".235, 35".941, 35".734, 35".466, 35".186, 34".786, 34".514, 34".228, 33".977, 33".725.
13. Observed over wire T with the transit-micrometer set to readings 35".025, 35".159, 35".306, 35".394, 35".495, 35".587, 35".701, 35".792, 35".880, 35".997.
16. Observed over wire S with the transit-micrometer set to readings 36".182, 36".070, 35".956, 35".847, 35".744, 35".643, 35".503, 35".444, 35".331, 35".216.
20, 21, 23. Very faint.
34. Observed over wire T with the transit-micrometer set to readings 35".335, 35".538, 35".707, 35".963, 36".168, 36".345, 36".533, 36".736, 36".906, 37".078.
37. Correction to R.A. on true meridian, + 0".03.
38. Observed over wire W with the transit-micrometer set to readings 36".550, 36".383, 36".235, 35".811, 35".690, 35".503, 35".178, 35".050, 34".691, 34".612.
42. Observed over wire U with the transit-micrometer set to readings 33".778, 34".025, 34".117, 34".288, 34".470, 35".973, 36".097, 36".338, 36".460, 36".588.
45. Observed over wire U with the transit-micrometer set to readings 35".500, 35".420, 35".179, 35".104, 34".978, 34".902, 34".769, 34".691, 34".625, 34".427.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of .		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
																							h	m	s
July 23	1	Groomb. 1063 S.P.	H	13.1	18.4	24.2	29.6	46.1	51.5	57.1	...	...	...	17.56.45.99	+ 1.18	47.54			0.53	5.56.48.14	- 1.85				
	2	7 Ophiuchi (N. Star)	H	...	...	...	22.4	25.1	27.6	35.0	37.5	40.0	42.5	17.57.27.58	(- 4.06)	28.15			[+ 0.10]	17.57.28.75	- 3.69				
	3	8 Ursæ Minoris...	H	9.8	17.7	23.8	30.8	39.4	48.5	56.5	3.6	11.8	21.2	18.6.4.50	[+ 10.90]	54.99	55.29	0.30	.....	.....					
	4	Oeltz Arg. (N.) 6629 S.P.	H	...	44.4	52.3	...	22.6	...	...	53.4	1.3	...	18.9.22.69		24.81				6.9.25.42	- 1.78				
	5	7 Serpentis	H	43.3	45.6	48.2	53.1	55.6	58.2	5.4	8.0	10.5	13.1	18.15.58.14		58.65	59.24	0.59	.....	.....					
	6	1 Aquilæ	H	...	22.8	25.3	30.4	32.9	35.5	42.7	45.2	47.8	...	18.29.35.38		35.95				18.29.36.56	- 3.78				
	7	β ¹ Lyræ	H	59.2	2.0	5.0	10.9	13.8	16.9	25.7	28.5	31.6	34.7	18.46.16.87		16.92	17.55	0.63	.....	.....					
	8	Cephei 51 S.P.	H	34.1	42.2	49.8	4.3	17.6	34.5	39.7	45.2	58.3	...	18.51.31.20		43.62	44.39	0.77	.....	.....					
	9	ξ Sagittarii	H	56.5	59.4	2.0	7.1	9.7	12.4	20.2	22.9	25.5	28.3	18.51.12.44		13.17				18.51.13.78	- 4.17				
	10	* N.P.D. 27° 45' ..	H	47.8	53.3	58.8	9.2	14.4	19.8	35.5	40.9	46.4	51.8	18.56.19.87		19.17				18.56.19.78	- 3.01				
	11	ψ Sagittarii	H	...	59.1	1.8	7.3	10.0	12.8	20.8	23.6	26.4	...	19.9.12.78		13.58	14.14	0.56	.....	.....					
	12	ψ Sagittarii (E&E)	H	53.1	9.5	25.9	...	59.0	15.1	31.7	...	...	...	19.9.12.18		12.98	14.14	1.16	.....	.....					
	13	λ Ursæ Minoris...	H	47.8	56.0	3.8	23.7	32.5	40.7	3.0	12.7	21.6	46.8	19.27.42.28		9.78	12.19	2.41	.....	.....					
	14	W. B. XIX. 638...	H	40.7	43.2	45.8	50.7	53.1	55.7	2.9	5.5	7.9	10.4	19.27.55.63		56.16				19.27.56.77	- 3.80				
	15	Lalande 37260 ...	H	...	24.4	28.0	35.1	38.7	42.3	52.9	56.4	59.8	...	19.31.42.27		42.08				19.31.42.69	- 3.10				
	16	Oeltz Arg. (N.) 19411	H	...	...	6.1	13.1	16.8	20.5	31.1	34.6	...	...	19.32.20.44		20.25				19.32.20.86	- 3.10				
	17	Lalande 37286 ...	H	...	8.5	12.0	19.1	22.8	26.3	36.9	40.6	44.1	...	19.32.26.36		26.17				19.32.26.78	- 3.10				
	18	δ ¹ L.	H	3.1	5.8	8.8	14.4	17.1	20.1	28.3	31.2	34.0	37.0	19.37.20.02		20.82				19.38.32.36					
	19	Groombridge 2988	H	...	...	39.9	46.8	50.1	53.7	4.0	...	10.8	14.4	19.53.53.91		53.77				19.53.54.38	- 3.13				
	20	Piazzi XIX. 369...	H	21.4	24.0	26.8	32.0	34.7	37.5	45.3	48.0	50.7	53.5	19.57.37.43		38.19				19.57.38.80	- 4.31				
	21	Groomb. 3051 (N. Star)	H	56.2	1.5	7.5	18.5	24.2	29.8	46.2	51.8	57.5	3.2	20.3.29.72		28.96				20.3.29.57	- 3.08				
	22	Radcliffe 4643 ...	H	11.7	15.0	18.4	25.0	28.4	31.9	41.8	45.2	48.7	52.1	20.8.31.87		31.76				20.8.32.37	- 3.14				
	23	4 Capricorni	H	41.6	...	46.9	52.3	54.9	57.8	5.6	8.3	...	13.7	20.11.57.68		58.44				20.11.59.05	- 4.27				
	24	ρ Capricorni	H	...	45.4	48.2	53.2	56.0	58.6	6.2	8.8	11.5	...	20.22.58.54		59.23	59.85	0.62	.....	.....					
	25	ρ Capricorni ... (E&E)	H	40.4	56.0	12.5	...	43.9	59.4	15.0	...	...	...	20.22.57.67		58.36	59.85	1.49	.....	.....					
	26	Piazzi XX. 177...	H	1.3	3.9	6.4	11.4	13.9	16.5	23.9	26.4	28.9	31.6	20.26.16.46		16.81				20.26.17.43	- 3.51				
	27	Bradley 2638	H	2.3	5.0	7.6	12.4	14.9	17.6	24.9	27.6	30.1	32.6	20.26.17.54		17.89				20.26.18.51	- 3.51				
	28	Lalande F. 3588...	H	...	12.6	32.4	11.7	31.7	52.0	50.5	10.5	30.6	...	20.34.51.90		47.65				20.34.48.27	- 4.08				
	29	ε Aquarii	H	...	52.9	55.5	0.5	2.8	5.5	12.9	15.4	17.9	...	20.42.5.48		6.07	6.64	0.57	.....	.....					
	30	ε Aquarii ... (E&E)	H	50.1	5.2	20.0	...	50.1	5.3	20.5	...	...	...	20.42.5.00		5.59	6.64	1.05	.....	.....					
	31	Oeltz Arg. (N.) 21350	H	...	...	...	11.3	19.4	27.6	51.8	59.4	7.4	16.3	20.50.27.60		26.18				20.50.26.80	- 3.22				
	32	α Orionis	AC	...	20.2	22.6	27.5	30.1	32.4	39.8	42.4	44.9	...	5.49.32.54	[+ 11.43]	32.95	33.84	0.89	0.91 [- 0.02]	5.49.33.86	- 1.39				
July 24	33	⊙ 1 L.	AC	42.8	45.5	48.3	53.4	56.0	58.5	6.5	9.1	11.7	14.3	8.15.58.65											
	34	⊙ 2 L.	AC	57.4	59.9	2.6	7.8	10.4	13.1	20.9	23.6	26.3	28.9	8.18.13.13											
	35	Venus 1 L.	AC	9.4	11.8	...	...	...	25.2	...	...	38.3	41.1	8.35.25.18											
	36	Venus 2 L.	AC	...	...	15.3	20.6	23.3	...	33.8	36.4	...	...	8.35.25.94											
	37	Polaris S.P.	AC	54.9	4.4	56.0	6.4	21.8	51.6	59.2	9.4	21.3	...	13.20.31.78		0.12	2.28	2.16	.....	.....					
	38	κ Ophiuchi ... R.	AC	31.0	33.5	36.2	41.1	43.7	46.2	...	...	...	...	16.52.46.15		46.95	47.81	0.86	16.52.47.85	- 3.14					
	39	ε Herculis	AC	2.9	6.0	8.9	14.6	17.7	20.5	29.1	32.0	34.9	37.9	16.56.20.49		20.59	21.50	0.91	16.56.21.49	- 2.93					
	40	η Ophiuchi ... R.	AC	11.1	13.8	16.4	21.4	24.1	26.5	...	...	...	...	17.4.26.59		27.50	28.32	0.82	17.4.28.40	- 3.61					
	41	Bradley 2182	AC	31.8	34.4	37.2	42.6	45.5	48.1	56.1	58.9	1.6	4.4	17.11.48.10		48.91			17.11.49.81	- 3.87					
	42	Camelopardi S.P.R.	AC	36.9	42.6	48.4	54.0	10.8	16.4	22.2	33.6	39.3	45.1	17.27.10.85		11.96			5.27.12.86	- 1.97					
	43	δ Ursæ Minoris...	AC	26.3	36.4	42.5	49.5	13.5	19.5	27.3	35.9	...	...	18.6.4.21		54.36	55.01	0.65	.....	.....					
	44	7 Serpentis	AC	42.9	45.5	47.9	52.7	55.2	57.8	5.2	7.7	10.3	12.7	18.15.57.83		58.36	59.23	0.87	18.15.59.25	- 3.60					
	45	λ Sagittarii	AC	19.0	21.9	24.7	30.0	32.8	35.7	43.8	46.4	49.1	52.0	18.21.35.58		36.41	37.31	0.90	18.21.37.30	- 4.24					
	46	1 Aquilæ ... R.	AC	19.8	22.4	24.9	29.8	32.4	34.9	42.3	44.8	47.2	49.8	18.29.34.87		35.75			18.29.36.64	- 3.78					
	47	2 Aquilæ	AC	21.9	24.5	27.1	32.0	34.4	37.0	44.4	46.8	49.4	52.0	18.36.36.99		37.60	38.52	0.92	18.36.38.49	- 3.82					
	48	ξ Sagittarii	AC	56.3	58.9	1.6	6.8	9.4	12.2	19.8	22.5	25.2	27.9	18.51.12.10		12.86			18.51.13.75	- 4.17					
	49	Cephei 51 S.P.	AC	38.2	44.3	48.9	54.6	17.8	24.2	30.0	36.0	...	...	18.51.30.97		43.86	44.69	0.83	.....	.....					
	50	Piazzi XVIII. 261	AC	51.7	54.4	57.3	2.9	5.4	8.3	...	...	...	...	18.56.8.20		9.93			18.56.9.92	- 4.32					
	51	Groombridge 2742	AC	...	...	...	...	...	38.3	43.7	49.2	20.8	52.8	18.56.17.37		16.66			18.56.17.55	- 2.99					
	52	ψ Sagittarii	AC	56.0	58.7	1.6	6.9	9.6	12.4	20.5	23.1	25.8	28.7	19.9.12.37		13.20	14.15	0.95	19.9.14.09	- 4.36					
	53	Groombridge 2815	AC	30.8	34.6	38.4	46.0	49.8	53.8	4.9	8.7	12.6	16.4	19.15.53.66		53.40			19.15.54.29	- 3.06					

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 12, 25, and 30, — 30^m23 : — 30^m23 : and — 30^m23.
Correction for passage of Semidiameter, No. 18, + 70^m90.

3. Observed over wire T with the transit-micrometer set to readings 35^m712, 35^m910, 36^m089, 36^m233, 36^m422, 36^m653, 36^m844, 37^m019, 37^m198, 37^m432.
8. Observed over wire U with the transit-micrometer set to readings 37^m310, 37^m147, 37^m010, 36^m720, 36^m455, 36^m119, 36^m020, 35^m913, 35^m672.
13. Observed over wire R with the transit-micrometer set to readings 35^m492, 35^m541, 35^m610, 35^m772, 35^m819, 35^m870, 36^m058, 36^m103, 36^m180, 36^m360.
18. Correction to R.A. on true meridian, + 0^m03.
37. Very faint. Observed over wire V with the transit-micrometer set to readings 35^m115, 34^m535, 34^m048, 33^m963, 33^m312, 33^m064, 33^m005, 32^m922, 32^m804.
43. Observed over wire R with the transit-micrometer set to readings 35^m290, 35^m517, 35^m672, 35^m842, 36^m400, 36^m570, 36^m725, 36^m918.
49. Observed over wire X with the transit-micrometer set to readings 40^m118, 39^m961, 39^m863, 39^m779, 39^m322, 39^m180, 39^m059, 38^m946.
51. Observed over wires V, W, X, Y and Z.

189860MM.582.1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
July 24	1	λ Ursæ Minoris...	AC	31'8	37'3	43'5	50'8	12'5	20'3	38'6	46'2	...	...	19. 27. 41'84	+ 1'18	8'12	11'57	3'45	0'91	.....	
	2	ι ² Cygni	AC	43'5	47'4	51'5	59'5	3'3	7'5	...	...	...	...	19. 27. 7'38	(- 4'06)	7'07			[- 0'02]	19. 27. 7'96 - 3'06	
	3	Lalande 37026 ...	AC	...	...	...	...	37'8	40'6	49'7	52'4	55'7	58'6	19. 27. 40'73	[+ 11'43]	40'78				19. 27. 41'67 - 3'20	
	4	Oeltz. Arg. (N.) 19405	AC	52'1	55'7	59'6	6'7	10'2	13'9	...	...	...	...	19. 32. 13'76		13'57				19. 32. 14'46 - 3'10	
	5	Lalande 37286 ...	AC	...	...	...	18'7	22'1	25'8	36'3	40'3	43'5	47'0	19. 32. 25'82		25'63				19. 32. 26'52 - 3'10	
	6	Groombridge 1360 S.P.	AC	23'9	36'3	47'7	59'6	34'7	46'4	58'5	21'4	33'8	46'2	19. 42. 34'67		37'92				19. 42. 38'81 - 1'41	
	7	Groombridge 2955	AC	40'7	43'8	47'1	53'3	56'6	0'0	9'2	12'3	15'6	18'9	19. 47. 59'80		59'76				19. 48. 0'65 - 3'17	
	8	W. B. XIX. 1269.	AC	29'0	31'5	34'1	38'9	41'4	43'9	51'3	53'8	56'3	58'8	19. 52. 43'94		44'50				19. 52. 45'39 - 3'81	
	9	Piazzi XIX. 369..	AC	...	23'8	26'4	31'8	34'4	37'2	45'1	47'8	50'4	...	19. 57. 37'16		37'96				19. 57. 38'85 - 4'31	
	10	Groombridge 3051	AC	55'8	1'3	6'9	18'1	23'3	29'1	45'8	51'2	56'7	2'4	20. 3. 29'14		28'36				20. 3. 29'25 - 3'08	
	11	4 Capricorni	AC	41'4	44'4	46'5	...	...	57'2	...	8'2	10'7	13'2	20. 11. 57'40		58'18				20. 11. 59'07 - 4'29	
	12	β Capricorni	AC	57'1	59'7	2'3	7'2	9'8	12'6	20'2	22'6	25'1	27'9	20. 15. 12'49		13'18	14'12	0'94		20. 15. 14'07 - 4'06	
	13	A Ursæ Maj. S.P.	AC	40'4	46'8	52'6	59'1	16'6	22'6	28'6	40'2	46'5	52'2	20. 25. 16'47		18'21				8. 25. 19'10 - 1'66	
	14	Oeltz. Arg. (N.) 20768	AC	0'8	4'3	7'9	15'0	18'4	22'2	32'8	36'2	40'0	43'7	20. 31. 22'18		21'99				20. 31. 22'88 - 3'12	
	15	δ 2 L.	AC	15'8	18'3	21'1	26'3	29'0	31'8	39'9	42'6	45'3	48'2	20. 35. 31'87		32'63				20. 34. 25'49	
July 25	16	⊙ 1 L.	D	39'8	42'7	45'5	50'6	53'1	56'0	3'7	6'4	9'1	11'7	8. 19. 55'90		56'15			0'67	8. 21. 3'94	
	17	Polaris S.P.	D	15'3	31'8	7'3	13'8	27'3	44'6	52'0	11'2	21'4	44'2	13. 20. 33'59		1'93	3'18	1'25	[0'00]	.....	
	18	Arcturus	D	...	43'2	46'0	51'0	53'7	56'3	4'2	6'8	9'5	...	14. 10. 56'39		56'64	57'37	0'73		14. 10. 57'31 - 2'34	
	19	α Ophiuchi	D	53'3	55'8	58'4	3'4	6'1	8'5	16'1	18'6	21'2	23'7	17. 30. 8'55		8'90	9'60	0'70		17. 30. 9'57 - 3'25	
	20	δ 2 L.	D	...	...	...	...	...	...	...	16'4	19'1	...	21. 27. 5'97		6'67				21. 26. 1'98	
	21	ε Aquarii	D	0'5	3'0	...	...	...	...	...	...	27'8	30'8	21. 32. 15'55		16'15	16'70	0'55		21. 32. 16'82 - 3'80	
	22	ξ Pegasi	D	52'0	54'5	56'9	1'9	4'5	7'0	14'4	16'9	19'5	22'0	21. 39. 7'00		7'38	8'09	0'71		21. 39. 8'05 - 3'47	
July 26	23	δ Capricorni	WB	4'9	7'5	10'1	15'1	17'7	20'4	28'1	30'7	33'3	36'0	21. 41. 20'42	[+ 11'71]	21'14	22'00	0'86	0'86	.....	
	24	μ Capricorni	WB	24'7	27'0	29'6	34'7	37'2	39'9	47'4	49'9	52'5	55'1	21. 47. 39'84		40'53			[+ 0'04]	21. 47. 41'43 - 3'91	
	25	18 Pegasi	WB	43'5	45'9	48'6	53'3	55'8	58'4	5'8	8'2	10'6	13'2	21. 54. 58'37		58'80				21. 54. 59'70 - 3'50	
	26	α Aquarii	WB	13'8	16'2	18'7	23'7	26'2	28'8	36'0	38'7	41'0	43'7	22. 0. 28'72		29'24	30'08	0'84		.....	
	27	e' Aquarii	WB	46'1	48'4	50'9	56'0	58'8	1'1	8'6	11'1	13'6	16'3	22. 5. 1'13		1'79				22. 5. 2'69 - 3'78	
	28	δ 2 L.	WB	47'3	49'9	52'4	57'5	59'9	2'9	10'4	12'8	15'5	18'2	22. 15. 2'72		3'37				22. 14. 1'04	
	29	σ Aquarii	WB	55'6	58'2	0'5	5'6	8'2	10'6	18'3	20'6	23'2	25'9	22. 25. 10'71		11'36	12'29	0'93		.....	
	30	η Aquarii	WB	47'9	50'3	52'8	57'9	0'2	2'8	10'2	12'5	15'0	17'5	22. 30. 2'75		3'27	4'17	0'90		.....	
	31	67 Aquarii	WB	35'6	37'9	40'4	45'4	47'9	50'4	58'0	0'3	2'8	5'3	22. 37. 50'44		51'05				22. 37. 51'95 - 3'58	
	32	λ Aquarii	WB	58'3	0'8	3'3	8'3	10'7	13'3	20'7	23'2	25'5	28'1	22. 47. 13'26		13'88	14'84	0'96		.....	
	33	Rigel	CD	17'2	19'7	22'3	27'1	29'6	32'3	...	...	...	...	5. 9. 32'21	[+ 11'99]	32'84	33'67	0'83	0'76	5. 9. 33'62 - 1'33	
	34	α Orionis	CD	17'6	20'1	22'7	27'5	30'0	32'6	40'0	42'5	45'0	47'5	5. 49. 32'59		33'03	33'90	0'87	[+ 0'09]	5. 49. 33'81 - 1'45	
July 27	35	⊙ 1 L.	CD	32'5	35'1	37'8	42'9	45'5	48'3	56'2	58'7	1'3	4'1	8. 27. 48'28	+ 1'29	55'45				8. 28. 56'24	
	36	⊙ 2 L.	CD	46'1	48'8	51'5	56'6	59'3	2'0	9'7	12'3	15'0	17'8	8. 30. 1'95	(- 3'40)					.....	
	37	Venus 1 L.	CD	22'8	...	28'2	...	...	38'6	...	49'1	...	54'4	8. 50. 38'64			39'22				8. 50. 40'01
	38	Venus 2 L.	CD	...	25'9	...	33'8	36'5	...	46'9	...	52'3	...	8. 50. 39'14						.....	
	39	Spica	CD	28'2	30'8	33'3	38'3	40'7	43'3	50'8	53'5	55'8	58'3	13. 19. 43'34		44'03	44'85	0'82		13. 19. 44'84 - 2'08	
	40	Polaris S.P.	CD	58'9	5'9	13'2	33'8	41'8	49'5	20'4	28'8	36'6	51'5	13. 20. 36'83		4'37	4'91	0'54		.....	
	41	Arcturus	CD	40'4	43'1	45'7	50'9	53'3	56'2	3'9	6'5	9'2	12'1	14. 10. 56'17		56'49	57'34	0'85		14. 10. 57'30 - 2'31	
	42	Arcturus... (E&E)	CD	40'3	56'0	...	27'5	...	58'9	14'7	...	...	...	14. 10. 56'17		56'49	57'34	0'85		.....	
	43	κ Ophiuchi	CD	31'6	34'0	36'5	41'5	44'0	46'6	54'0	56'5	59'1	1'6	16. 52. 46'58		47'04	47'79	0'75		16. 52. 47'86 - 3'12	
	44	ε Herculis	CD	3'2	6'1	9'1	14'7	17'7	20'6	29'1	32'0	34'9	37'9	16. 56. 20'57		20'74	21'47	0'73		16. 56. 21'56 - 2'90	
	45	δ Ursæ Minoris...	CD	32'2	40'7	46'5	2'5	8'5	15'9	45'2	53'1	0'2	22'1	18. 6. 3'23		53'76	54'22	0'46		.....	
	46	η Serpentis	CD	42'9	45'4	48'0	52'9	55'3	57'9	5'2	7'7	10'2	12'9	18. 15. 57'88		58'49	59'23	0'74		18. 15. 59'32 - 3'60	
	47	η Serpentis (E&E)	CD	44'5	59'5	...	...	...	58'7	13'7	...	...	...	18. 15. 57'73		58'34	59'23	0'89		.....	
	48	Groombridge 1239 S.P.	CD	42'1	49'4	56'5	3'4	24'2	31'6	38'5	...	...	...	18. 51. 24'25		26'30				6. 51. 27'13 - 1'90	
	49	Groombridge 2742	CD	45'3	50'7	55'9	6'5	11'9	17'4	33'0	38'2	43'5	49'1	18. 56. 17'23		16'61				18. 56. 17'44 - 2'95	
	50	* N.P.D. 27'45..	CD	47'5	52'8	58'2	8'6	14'2	19'4	35'3	40'9	45'8	51'4	18. 56. 19'49		18'87				18. 56. 19'70 - 2'95	
	51	Groombridge 2815	CD	31'0	34'7	38'5	46'1	50'0	53'8	4'9	8'9	12'7	16'6	19. 15. 53'78		53'60				19. 15. 54'43 - 3'05	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 42 and 47, — 31^s.35 and — 31^s.42.
Corrections for passage of Semidiameter, Nos. 15, 16, 20, and 28, — 68^s.06 : + 67^s.12 : — 65^s.38 : and — 63^s.25.

1. Observed over wire Q with the transit-micrometer set to readings 35^s.200, 35^s.242, 35^s.277, 35^s.336, 35^s.495, 35^s.549, 35^s.690, 35^s.736.
3, 4, 5, 6, 8, 9. Observed in dark field with wires illuminated.
17. Observed over wire P with the transit-micrometer set to readings 36^s.045, 35^s.864, 35^s.550, 35^s.491, 35^s.367, 35^s.240, 35^s.173, 34^s.968, 34^s.915, 34^s.650.
20, 28. Correction to R.A. on true meridian, + 0^s.02.
40. Observed over wire P with the transit-micrometer set to readings 36^s.173, 36^s.116, 36^s.059, 35^s.892, 35^s.794, 35^s.758, 35^s.484, 35^s.403, 35^s.321, 35^s.181.
45. Observed over wire T with the transit-micrometer set to readings 36^s.280, 36^s.500, 36^s.647, 37^s.004, 37^s.167, 37^s.337, 38^s.031, 38^s.230, 38^s.393, 38^s.909.
11. Faint.
33. Cloudy.

MO.	DAY.	No. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at of Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.		Correction for Re- duction to Mean R.A. 1896.				
					I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m		s	h	m	s
1893 JULY.	July 27	1	Groomb. 1350 S.P.	CD	30.2	37.4	44.5	51.6	12.3	19.5	27.0	40.5	47.7	54.8	19. 36. 12.44	+ 1.29	14.49			0.76	7. 36. 15.32	- 1.78						
		2	a Aquilæ	CD	29.9	32.3	34.9	39.8	42.2	44.8	52.2	54.7	57.2	59.9	19. 45. 44.83	(- 3.40)	45.30	46.09	0.79	[+ 0.09]	19. 45. 46.13	- 3.59						
		3	a Aquilæ ..(E&E)	CD	31.1	46.0	...	...	...	46.0	1.0	...	...	...	...	19. 45. 44.63	[+ 11.99]	45.10	46.09	0.99								
		4	14 Vulpeculæ ...	CD	28.9	31.6	34.3	39.6	42.3	45.0	52.9	55.5	58.4	1.1	19. 54. 45.00		45.28			19. 54. 46.11	- 3.36							
		5	Piazz XX.30(N.Star)	CD	40.9	...	52.0	...	...	14.2	...	36.2	...	47.4	20. 4. 14.17		13.49			20. 4. 14.33	- 3.09							
		6	Piazz XX.30(S.Star)	CD	...	46.4	...	3.0	8.6	...	30.5	...	41.5	...	20. 4. 14.13		13.45			20. 4. 14.29	- 3.09							
		7	Lalande F. 3559..	CD	7.2	20.5	33.9	47.5	2.2	29.2	41.9	56.4	9.8	24.2	20. 25. 15.28		9.30			20. 25. 10.14	- 4.52							
		8	49 Cygni	CD	34.9	...	40.6	...	...	52.2	0.9	3.5	...	...	20. 36. 52.21		52.37			20. 36. 53.21	- 3.27							
		9	* N.P.D. 58° 5'...	CD	...	37.6	...	46.5	49.3	...	...	...	6.7	9.9	20. 36. 52.30		52.46			20. 36. 53.30	- 3.27							
		10	Piazz XX. 349...	CD	20.0	24.2	28.5	37.3	41.5	46.0	59.1	3.2	7.4	11.9	20. 44. 45.97		45.63			20. 44. 46.47	- 3.11							
		11	Groomb. 1501 S.P.	CD	57.4	1.8	5.9	10.2	22.8	27.3	31.5	39.9	44.3	48.7	20. 56. 22.92		24.20			8. 56. 25.04	- 1.71							
		12	f ² Cygni	CD	41.7	45.1	48.9	56.1	59.9	3.6	14.4	18.0	21.5	25.2	21. 3. 3.49		3.37			21. 3. 4.21	- 3.15							
		13	ζ Cygni	CD	15.7	18.3	21.4	27.0	29.9	32.6	41.1	44.3	46.9	49.9	21. 8. 32.75		32.94	33.86	0.92	21. 8. 33.78	- 3.29							
		14	a Equulei	CD	24.9	27.3	29.7	34.6	37.1	39.8	46.9	49.6	52.0	54.6	21. 10. 39.69		40.20	41.09	0.89	21. 10. 41.04	- 3.61							
		15	Oeltz. Arg. (N.) 22046	CD	...	...	...	55.8	59.7	3.3	14.4	18.1	22.2	25.9	21. 16. 3.39		3.23			21. 16. 4.07	- 3.14							
		16	Bradley 2832 ...	CD	2.9	14.3	26.0	37.3	49.1	12.0	23.9	34.9	46.7	57.7	21. 22. 0.48		55.53			21. 21. 56.37	- 4.49							
		17	Lalande 42024 ...	CD	...	15.9	19.5	26.8	30.5	34.3	45.2	49.0	52.6	...	21. 28. 34.30		34.16			21. 28. 35.00	- 3.14							
		18	γ Aquarii	R	4.5	6.9	9.3	14.4	16.8	19.3	26.6	29.2	31.7	34.2	22. 16. 19.33		19.92	20.61	0.69									
		19	σ Aquarii	R	55.7	58.4	0.9	5.8	8.3	10.9	18.3	20.9	23.5	26.1	22. 25. 10.92		11.62	12.31	0.69									
		20	σ Aquarii ..(E&E)	R	56.7	11.8	...	...	...	12.3	27.4	...	...	...	22. 25. 10.60		11.30	12.31	1.01									
		21	67 Aquarii	R	35.6	38.0	40.6	45.6	48.2	50.7	58.1	0.4	3.0	5.5	22. 37. 50.61		51.26			22. 37. 51.97	- 3.60							
		22	λ Aquarii	R	58.4	1.0	3.5	8.4	10.9	13.4	20.9	23.5	25.9	28.3	22. 47. 13.46		14.12	14.87	0.75									
		23	δ 2 L.	R	8.5	10.9	13.5	18.6	21.1	23.6	31.1	33.7	36.2	38.9	23. 0. 23.65		24.28			22. 59. 23.17								
		24	B. F. 3183	R	0.0	2.3	4.9	9.9	12.4	14.8	22.2	24.7	27.1	29.8	23. 10. 14.85		15.47			23. 10. 16.19	- 3.41							
		25	11 Piscium	R	...	...	...	3.8	6.4	8.8	15.9	18.7	21.0	23.7	23. 24. 8.79		9.38			23. 24. 10.10	- 3.33							
		26	Rigel	S	17.3	19.6	22.3	27.2	29.7	32.4	39.5	42.1	44.7	47.5	5. 9. 32.27	(- 2.81)	32.95	33.69	0.74		5. 9. 33.70	- 1.35						
		27	β Tauri	S	26.9	29.7	32.8	38.2	41.0	43.9	52.0	54.9	57.9	0.6	5. 19. 43.83		44.08	44.86	0.78	[+ 0.05]	5. 19. 44.83	- 1.85						
		28	α Orionis	S	17.6	20.2	22.9	27.8	30.2	32.7	40.0	42.5	45.0	47.5	5. 49. 32.68		33.19	33.93	0.74	5. 49. 33.94	- 1.48							
		29	Procyon	S	36.6	39.1	41.6	46.5	48.9	51.4	58.9	1.3	3.8	6.2	7. 33. 51.47		52.00	52.74	0.74	7. 33. 52.76	- 1.19							
July 28	July 28	30	⊙ 1 L.	S	27.7	30.4	33.1	38.2	40.8	43.6	51.3	53.9	56.5	59.3	8. 31. 43.52	} 50.70				8. 32. 51.46								
		31	⊙ 2 L.	S	41.5	44.0	46.6	51.8	54.4	57.1	4.9	7.5	10.3	12.9	8. 33. 57.14													
		32	Venus 1 L.	S	24.9	...	30.3	...	...	40.8	...	51.1	...	56.5	8. 55. 40.74	} 41.47				8. 55. 42.23								
		33	Venus 2 L.	S	...	28.3	...	36.2	38.7	...	49.3	...	54.5	...	8. 55. 41.46													
		34	Spica	S	28.3	30.9	33.2	38.4	40.7	43.3	50.9	53.4	55.9	58.5	13. 19. 43.39	44.10	44.84	0.74	13. 19. 44.87	- 2.07								
		35	Polaris S.P.	S	30.6	39.5	46.8	52.5	59.8	9.1	17.2	23.3	32.0	39.8	13. 20. 37.79	3.94	5.79	1.85	.....	.....								
		36	δ Ophiuchi	S	40.5	42.9	45.5	50.4	52.8	55.3	2.5	5.1	7.6	10.2	16. 8. 55.32	55.95	56.71	0.76	16. 8. 56.72	- 3.09								
		37	γ Herculis	S	5.8	8.4	11.1	16.4	18.9	21.6	29.2	32.0	34.6	37.3	16. 17. 21.57	21.94	22.74	0.80	16. 17. 22.71	- 2.87								
		38	λ Ophiuchi	S	26.9	29.4	32.0	36.8	39.3	41.9	49.1	51.6	54.2	56.7	16. 25. 41.83	42.40	43.11	0.71	16. 25. 43.17	- 3.10								
		39	h Herculis	S	30.8	33.3	35.9	40.9	43.5	46.0	53.5	56.1	58.7	1.2	16. 27. 46.03	46.49			16. 27. 47.26	- 2.99								
		40	ζ Ophiuchi	S	12.6	15.1	17.6	22.6	25.1	27.7	35.1	37.7	40.4	42.8	16. 31. 27.71	28.42	29.16	0.74	16. 31. 29.19	- 3.32								
		41	η Herculis	S	2.5	5.6	8.9	15.3	18.4	21.8	31.1	34.6	37.6	41.0	16. 39. 21.73	21.82			16. 39. 22.59	- 2.76								
		42	Piazz IV. 170 S.P.	S	48.2	53.5	59.5	4.9	21.1	26.8	32.5	43.0	48.9	54.4	16. 42. 21.20	22.80			4. 42. 23.57	- 2.30								
		43	Groombridge 2391	S	...	...	...	24.0	35.4	47.8	21.9	...	...	...	16. 47. 47.52	45.47			16. 47. 46.25	- 2.38								
		44	κ Ophiuchi	S	31.4	33.9	36.5	41.4	44.0	46.6	53.9	56.5	59.1	1.6	16. 52. 46.53	47.02	47.78	0.76	16. 52. 47.80	- 3.11								
		45	α ¹ Herculis	S	...	...	...	...	...	...	3.7	6.4	8.9	11.6	17. 9. 56.24	56.66	57.38	0.72	17. 9. 57.44	- 3.12								
		46	Piazz XVII. 99..	S	...	...	58.9	3.6	6.2	8.8	16.0	18.7	...	...	17. 21. 8.75	9.39			17. 21. 10.17	- 3.47								
		47	δ Ursæ Minoris...	S	19.8	27.2	35.8	44.5	54.3	10.2	19.0	25.7	35.6	43.9	18. 6. 1.60	52.68	53.98	1.30	.....	.....	.....							
48	Oeltz. Arg. (N.) 6629 S.P.	S	...	...	...	59.8	22.2	30.7	37.8	...	...	...	18. 9. 22.47	24.61			6. 9. 25.39	- 2.08										
49	η Serpentis	S	42.9	45.4	48.0	52.9	55.4	58.1	5.1	7.6	10.2	12.7	18. 15. 57.87	58.50	59.23	0.73	18. 15. 59.28	- 3.60										
50	Cephei 51 S.P. ...	S	25.7	32.5	38.8	46.2	52.3	0.7	9.2	15.8	22.5	29.1	18. 51. 33.50	45.46	45.75	0.29	.....	.....	.....									
51	Groomb. 1239 S.P.	S	...	...	56.8	4.3	24.6	31.4	38.5	52.8	...	...	18. 51. 24.59	26.57			6. 51. 27.35	- 1.94										

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 3 and 20, — 31^m.45 and — 31^m.50.
Correction for passage of Semidiameter, No. 23, — 61^m.85.

5, 6. Very faint.

7, 16. Observed over wire T with the transit-micrometer set to readings 33^m.100, 33^m.600, 34^m.100, 34^m.600, 35^m.100, 36^m.100, 36^m.600, 37^m.100, 37^m.600, 38^m.100.

23. Limb boiling. Correction to R.A. on true meridian, + 0^m.02.

26, 27, 28. Very tremulous.

29, 30, 31. Very diffused and tremulous.

35. Observed over wire T with the transit-micrometer set to readings 35^m.131, 35^m.072, 35^m.000, 34^m.933, 34^m.880, 34^m.783, 34^m.730, 34^m.661, 34^m.611, 34^m.518.

47. Observed over wire T with the transit-micrometer set to readings 34^m.600, 34^m.800, 35^m.000, 35^m.200, 35^m.400, 35^m.800, 36^m.000, 36^m.200, 36^m.400, 36^m.600.

50. Observed over wire V with the transit-micrometer set to readings 36^m.518, 36^m.402, 36^m.266, 36^m.090, 36^m.007, 35^m.827, 35^m.662, 35^m.547, 35^m.412, 35^m.282.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent			Correction for Re- duction to Mean R.A. 1896°.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m	s		h	m	s
s	s	s	s	s	s	s	s	s	s	"	"	s	s	s	s	s	s	s									
July 28	1	Piazzi XVIII. 261	S	51.8	54.6	57.4	...	...	...	...	19.2	21.9	25.1	18.56	+ 1.29	9.25			0.74	18.56	10.03		- 4.33				
	2	Groombridge 2800	S	59.3	2.4	5.7	12.2	15.4	18.6	28.1	31.3	34.6	38.1	19.12	(- 2.81)	18.69			[+ 0.05]	19.12	19.47		- 3.12				
	3	γ Draconis	S	45.1	53.6	2.5	19.3	27.5	36.4	1.7	10.2	18.9	27.9	19.17	[+ 1.99]	35.12				19.17	35.90		- 3.01				
	4	α Vulpeculæ	S	8.5	11.2	13.9	19.3	22.2	24.9	32.9	35.6	38.3	41.1	19.24		25.13	25.95	0.82		19.24	25.91		- 3.31				
	5	8 Vulpeculæ	S	...	...	...	...	...	...	46.9	49.6	52.4	55.2	19.24		39.17				19.24	39.95		- 3.32				
	6	Lalande 37260	S	20.5	24.0	27.5	34.8	38.3	42.0	52.5	56.2	59.9	3.3	19.31		41.91				19.31	42.69		- 3.09				
	7	Lalande 37286	S	...	...	11.8	18.9	22.4	26.1	36.6	40.3	...	...	19.32		26.05				19.32	26.83		- 3.09				
	8	Lalande F. 1094 S.P.	S	...	...	...	...	17.1	46.8	14.9	9.4	37.6	6.3	19.40		24.73				7.40	25.51		- 0.74				
	9	19 Cygni	S	36.1	39.2	42.5	48.6	51.9	55.1	4.5	7.5	10.9	14.2	19.46		55.20				19.46	55.98		- 3.18				
	10	Piazzi VII. 269 S.P.	S	...	16.7	21.4	26.1	40.0	44.8	49.5	58.8	3.4	...	19.56		41.38				7.56	42.16		- 1.80				
	11	Piazzi VII. 311 S.P.	S	...	...	14.4	19.3	32.7	37.3	41.8	50.8	...	...	20.5		33.95				8.5	34.73		- 1.78				
	12	Groombridge 3147	S	...	...	...	...	9.8	18.2	42.6	51.0	59.2	7.8	20.14		16.98				20.14	17.76		- 3.18				
	13	B.D. + 47° No. 3091	S	23.1	27.2	30.5	38.0	41.6	45.5	55.9	59.9	3.4	7.1	20.19		45.21				20.19	45.99		- 3.14				
	14	ρ Capricorni	S	...	...	...	...	...	...	6.1	8.6	11.3	13.8	20.22		59.12	59.91	0.79		20.22	59.90		- 4.19				
	15	Bradley 2627	S	...	...	...	...	4.2	6.8	14.6	17.1	19.8	22.5	20.23		7.66				20.23	8.44		- 4.20				
	16	Piazzi XX. 177	S	1.1	3.6	6.3	11.2	13.7	16.3	23.6	26.2	28.9	31.3	20.26		16.73				20.26	17.51		- 3.55				
	17	Bradley 2638	S	2.2	4.7	7.3	12.3	14.8	17.5	24.7	27.4	29.8	32.4	20.26		17.82				20.26	18.60		- 3.55				
	18	Lalande 39766	S	...	...	...	41.8	44.4	47.2	54.6	57.3	59.9	2.4	20.31		47.53				20.31	48.31		- 3.50				
	19	β Delphini	S	...	...	32.4	37.4	39.9	42.5	50.0	52.7	...	...	20.32		42.96				20.32	43.74		- 3.51				
	20	W. B. XX. 922	S	...	...	...	...	...	55.3	2.9	5.4	7.9	10.6	20.37		55.70				20.37	56.48		- 3.49				
	21	δ Delphini	S	...	...	...	...	...	46.0	48.6	51.3	53.8	20.38		38.93				20.38	39.71		- 3.49					
	22	Piazzi VIII. 137 S.P.	S	...	...	...	...	...	29.9	36.3	48.9	55.2	1.5	20.39		25.25				8.39	26.03		- 1.71				
	23	Lacaille 8617	S	41.1	43.9	46.7	51.8	54.7	57.6	5.4	8.2	10.7	13.6	20.47		58.30				20.47	59.08		- 4.38				
	24	Lalande 40787	S	54.7	...	1.9	8.8	12.4	16.2	26.8	30.2	...	37.6	20.57		16.09				20.57	16.87		- 3.16				
	25	Groombridge 3369	S	...	...	0.6	7.8	11.3	14.9	25.7	29.2	...	...	20.58		14.95				20.58	15.73		- 3.16				
	26	γ Equulei	S	...	6.5	9.2	14.2	...	19.4	...	...	31.8	34.4	21.5		19.76				21.5	20.54		- 3.55				
	27	6 Equulei	S	15.3	17.8	20.4	25.3	27.7	30.4	37.7	40.2	42.8	45.3	21.5		30.82				21.5	31.60		- 3.55				
	28	ζ Cygni	S	...	...	...	...	30.0	32.8	41.1	44.2	46.9	50.0	21.8		33.07	33.87	0.80		21.8	33.85		- 3.30				
	29	Piazzi XXI. 142	S	45.3	50.9	56.7	7.5	13.4	18.9	35.5	41.1	47.0	52.7	21.20		18.37				21.20	19.15		- 3.16				
	30	β Aquarii	S	52.3	54.8	57.4	2.3	4.8	7.4	14.7	17.3	19.8	22.3	21.26		8.01	8.83	0.82		21.26	8.79		- 3.81				
	31	ξ Aquarii	S	0.0	2.7	5.3	10.2	12.7	15.3	22.5	25.1	27.6	30.2	21.32		15.88	16.75	0.87		21.32	16.66		- 3.85				
	32	16 Pegasi	CD	5.3	8.0	10.8	16.3	19.0	21.8	29.9	32.6	35.5	38.2	21.48	(- 2.32)	22.10	23.02	0.92	0.91	.....	.....						
	33	16 Pegasi (E&E)	CD	4.1	20.6	...	3.5	...	26.4	42.6	...	...	...	21.48		22.00	23.02	1.02		.....	.....						
	34	Groombridge 3628	CD	30.5	33.9	37.4	43.9	47.2	50.7	0.6	4.0	7.4	10.9	21.53		50.78				21.53	51.74		- 3.17				
	35	Oeltz Arg. (N.) 23355	CD	26.6	31.5	36.6	46.1	51.1	55.9	10.4	15.1	20.1	24.9	22.0		55.56				22.0	56.52		- 3.15				
	36	Groombridge 3702	CD	...	...	...	1.8	9.6	18.2	41.7	49.5	57.3	5.4	22.5		16.87				22.5	17.83		- 3.34				
	37	θ Aquarii	CD	7.8	10.4	12.8	17.8	20.3	22.9	30.1	32.8	35.3	38.0	22.11		23.56	24.45	0.89		.....	.....						
	38	ρ Aquarii	CD	30.5	33.2	35.6	40.5	43.1	45.6	52.9	55.5	58.2	0.6	22.14		46.31				22.14	47.27		- 3.72				
	39	Groombridge 3776	CD	33.3	43.0	53.3	12.8	23.1	33.3	2.6	12.5	22.4	32.5	22.20		31.50				22.20	32.46		- 3.51				
	40	Groombridge 3797	CD	16.6	20.3	24.3	31.9	36.0	39.8	50.9	55.1	58.9	2.8	22.26		39.64				22.26	40.60		- 3.12				
	41	Groombridge 3833	CD	...	19.1	23.5	32.4	37.0	41.3	54.7	59.3	3.7	...	22.31		41.22				22.31	42.18		- 3.13				
	42	* N.P.D. 33° 42'	CD	16.6	21.1	25.4	34.4	38.7	43.4	56.7	1.2	5.5	10.0	22.31		43.12				22.31	44.08		- 3.13				
	43	Groombridge 3874	CD	34.8	38.6	42.7	50.3	54.3	58.2	9.6	13.7	17.7	21.8	22.39		58.12				22.39	59.08		- 3.11				
	44	W. B. (2) XXII. 100-1	CD	5.7	8.5	11.1	...	...	22.0	...	32.7	35.5	38.3	22.45		22.34				22.45	23.30		- 3.22				
	45	Groombridge 1716 S.P.	CD	25.6	29.9	34.0	37.6	49.1	53.6	58.1	5.8	9.6	14.2	22.51		50.89				10.51	51.85		- 1.75				
	46	h ¹ Aquarii	CD	31.3	33.8	36.3	41.1	43.7	46.3	...	...	...	...	22.59		46.96				22.59	47.92		- 3.55				
	47	h ² Aquarii	CD	...	...	...	50.8	53.3	55.8	3.2	5.8	8.3	10.7	22.59		56.53				22.59	57.49		- 3.55				
	48	B. F. 3183	CD	59.8	2.1	4.7	9.6	12.2	14.6	21.9	24.4	27.0	29.5	23.10		15.28				23.10	16.24		- 3.44				
	49	Groombridge 4040	CD	20.2	28.6	37.3	54.2	2.6	11.3	36.2	44.9	53.2	2.3	23.14		10.00				23.14	10.96		- 3.39				
	50	κ Piscium	CD	22.8	25.3	27.8	32.7	35.2	37.8	45.2	47.6	50.0	52.6	23.21		38.35	39.36	1.01		.....	.....						
	51	κ Piscium (E&E)	CD	24.9	39.7	...	9.5	...	39.1	53.9	...	...	...	23.21		38.24	39.36	1.12		.....	.....						
	52	ι Piscium	CD	53.5	56.0	58.7	3.3	6.1	8.4	15.8	18.2	20.7	23.1	23.24		9.06				23.24	10.02		- 3.35				
	53	δ 2 L	CD	0.6	3.2	5.8	10.7	13.3	15.8	23.2	25.8	28.5	30.9	23.44		16.43				23.43	16.16						
	54	Groombridge 1843 S.P.	CD	23.1	28.8	34.1	39.3	54.8	0.6	6.0	15.9	21.4	26.4	23.52		56.47				11.52	57.43		- 1.76				

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 33 and 51, — 31^s.80 and — 31^s.83.
Correction for passage of Semidiameter, No. 53, — 61^s.25.

1. 45. Observed in dark field with wires illuminated.
45. Faint.

18. 42. Very faint.
53. Correction to R.A. on true meridian, + 0^s.02.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
July 28	1	Bradley 3203.....	CD	41'6	51'3	1'0	10'3	19'8	37'9	47'6	56'8	6'1	15'9	23. 57. 28'83	+ 1'29	25'37			0'91	23. 57. 26'33	- 4'35	
	2	10 Cassiopeiæ	CD	31'3	36'8	42'5	53'5	59'1	4'8	21'1	26'7	32'2	38'0	0. 1. 4'68	(- 2'32)	4'16			[+ 0'05]	0. 1. 5'12	- 3'11	
	3	34 Piscium	CD	27'9	30'4	33'0	37'9	40'5	43'1	50'4	53'0	55'4	58'2	0. 4. 43'02	[+ 11'99]	43'52			0'96	0. 4. 44'48	- 3'08	
	4	Groombridge 21 ..	CD	6'3	12'0	18'3	30'5	36'4	42'4	0'2	6'1	12'2	18'5	0. 8. 42'38		41'74			...	0. 8. 42'70	- 3'13	
	5	36 Piscium	CD	59'9	2'3	4'8	9'8	12'4	14'9	22'3	24'8	27'4	29'9	0. 11. 14'89		15'42				0. 11. 16'38	- 3'06	
	6	d Piscium	CD	1'3	3'6	6'3	11'1	13'6	16'2	23'5	26'1	28'6	31'2	0. 15. 16'19		16'72				0. 15. 17'68	- 3'05	
	7	R Andromedæ	CD	15'2	18'2	21'6	27'6	30'9	34'2	43'3	46'5	49'6	52'9	0. 18. 34'05		34'21				0. 18. 35'17	- 2'94	
	8	12 Ceti	CD	30'3	32'8	35'3	40'3	42'7	45'2	52'5	55'0	57'6	0'2	0. 24. 45'23		45'89	46'90	1'01		.....		
	9	α Orionis	W	17'5	19'9	22'5	27'5	29'9	32'5	39'8	42'4	44'8	47'3	5. 49. 32'45	[+ 11'75]	32'98	33'95	0'97	0'88	.....		
	10	γ Geminorum ...	W	...	...	...	...	...	...	50'2	52'7	55'2	57'8	6. 31. 42'46		42'89	43'72	0'83		.....		
	11	Sirius	W	17'7	20'2	22'9	27'9	30'3	33'1	40'7	43'3	45'7	48'5	6. 40. 33'07		33'86				6. 40. 34'75	- 0'81	
	12	α' Geminorum ...	W	...	...	...	52'1	55'1	58'0	6'9	...	...	...	7. 27. 58'09		58'33				7. 27. 59'23	- 1'63	
	13	Castor	W	40'8	43'6	46'6	...	...	...	...	12'9	33'2	7. 27. 58'30		58'54	59'50	0'96		.....			
	14	Procyon	W	36'4	38'8	41'2	46'3	48'7	51'2	58'8	1'2	3'5	6'1	7. 33. 51'27		51'81	52'76	0'95		.....		
July 29	15	⊙ 1 L.....	W	22'1	24'7	27'6	32'6	35'4	38'0	45'6	48'4	50'9	53'5	8. 35. 37'92		45'10				8. 36. 46'00		
	16	⊙ 2 L.....	W	35'7	38'3	40'9	46'2	48'8	51'5	59'4	1'9	4'4	7'2	8. 37. 51'47								
	17	Venus 1 L.....	W	10'1	25'8	28'6	...	...	...	...	54'7	57'4	28'7	9. 0. 41'64		42'36				9. 0. 43'26		
	18	Venus 2 L.....	W	...	...	31'8	37'0	39'5	42'4	49'9	52'7	...	...	9. 0. 42'27								
	19	β Leonis	W	...	...	...	...	45'7	...	55'8	58'5	1'1	11. 43. 45'73		46'17	46'95	0'78		.....			
	20	Polaris S.P.	W	52'9	14'0	24'3	35'3	58'8	48'4	1'2	10'5	18'5	30'2	13. 20. 35'41		(59'94)				.....		
July 30	21	κ Ophiuchi	HF	31'3	33'8	36'5	41'3	43'8	46'5	53'7	56'4	58'9	1'4	16. 52. 46'40	(- 4'16)	46'80	47'76	0'96	0'92	.....		
	22	ε Herculis	HF	3'0	5'9	9'0	14'8	17'3	20'7	29'0	32'0	34'8	37'7	16. 56. 20'46	[+ 11'50]	20'56	21'43	0'87	[0'00]	.....		
July 31	23	⊙ 1 L.....	EB	...	...	...	...	...	...	33'7	36'2	38'8	41'5	8. 43. 25'90	(- 3'32)	32'73			0'94	8. 44. 33'66		
	24	⊙ 2 L.....	EB	...	...	28'2	33'8	36'3	38'8	...	...	...	25'9	8. 45. 38'90					[- 0'02]			
	25	ε Virginis	EB	45'6	48'1	50'7	55'5	58'0	0'6	7'9	10'6	13'1	15'8	12. 57. 0'63		1'04	1'95	0'91		12. 57. 1'97	- 1'97	
	26	Polaris S.P.	EB	34'8	51'9	3'3	13'0	26'3	1'1	10'7	18'6	26'0	36'2	13. 20. 39'39		5'79	8'66	2'87		1. 21. 6'72	- 14'81	
	27	h Herculis.....	EB	30'7	33'3	35'9	40'5	43'2	45'9	53'3	55'7	58'4	1'0	16. 27. 45'83		46'24				16. 27. 47'17	- 2'96	
	28	κ Ophiuchi	EB	31'3	33'9	36'3	41'3	43'9	46'5	53'7	56'3	58'9	1'3	16. 52. 46'38		46'82	47'75	0'93		16. 52. 47'75	- 3'08	
	29	ε Herculis	D	3'0	5'9	8'9	14'7	17'3	20'3	28'9	31'7	34'7	37'6	16. 56. 20'34		20'50	21'42	0'92	0'94	.....		
	30	η Ophiuchi	D	11'1	13'9	16'5	21'4	24'0	26'5	34'1	36'8	39'4	42'0	17. 4. 26'61		27'34	28'28	0'94		.....		
	31	Bradley 2182.....	EB	31'8	34'3	37'1	42'4	45'3	48'0	56'3	59'0	1'2	4'5	17. 11. 48'03		48'87			0'94	17. 11. 49'80	- 3'83	
	32	α Ophiuchi	EB	...	...	...	...	...	...	15'8	18'2	20'7	23'3	17. 30. 8'18		8'88	9'55	0'97		17. 30. 9'51	- 3'20	
	33	ψ Draconis	EB	...	9'8	17'8	34'0	41'9	50'0	14'0	22'0	30'3	...	17. 43. 50'14		48'85				17. 43. 49'78	- 2'51	
	34	δ Ursæ Minoris...	EB	20'2	28'5	34'7	7'2	14'5	35'6	42'4	54'6	0'7	...	18. 6. 1'63		52'55				18. 5. 53'47	- 2'57	
	35	Oeltz. Arg. (N.) 6629 S.P.	EB	36'2	44'2	52'0	59'9	22'3	30'0	38'0	53'3	1'0	9'0	18. 9. 22'47		24'59				6. 9. 25'51	- 2'27	
	36	η Serpentis	EB	42'8	45'3	48'0	52'7	55'2	57'7	5'1	7'4	10'0	12'6	18. 15. 57'72		58'30	59'22	0'92		18. 15. 59'22	- 3'59	
	37	1 Aquilæ	EB	20'0	22'5	24'9	30'0	32'5	35'0	42'3	44'8	47'4	49'9	18. 29. 34'97		35'62				18. 29. 36'54	- 3'78	
	38	2 Aquilæ	R. EB	21'8	24'2	26'8	31'6	34'2	36'9	44'1	46'6	49'1	51'7	18. 36. 36'74		37'61	38'52	0'91		18. 36. 38'53	- 3'82	
	39	Cephei 51 S.P. ...	EB	5'3	14'3	22'9	29'6	35'8	43'0	50'4	56'7	4'2	14'0	18. 51. 32'84		44'88				6. 51. 45'80	- 1'13	
	40	Groomb. 1244 S.P.	EB	35'6	41'5	47'3	52'8	9'3	15'1	...	...	...	...	18. 52. 9'34	+ 38'39	5'26				6. 52. 6'18	- 2'06	
	41	* N.P.D. 27° 45'..	EB	42'1	47'3	52'8	3'1	8'3	14'0	...	...	...	...	18. 56. 13'88		18'63				18. 56. 19'55	- 2'87	
	42	1 Vulpeculæ	EB	28'2	31'1	33'8	39'2	41'4	44'2	52'0	54'7	57'3	59'9	19. 11. 44'22		47'15				19. 11. 48'07	- 3'34	
	43	δ Aquilæ	EB	0'1	2'6	4'9	10'0	12'3	15'0	22'3	24'7	27'3	29'9	19. 20. 14'95		17'94	18'91	0'97		19. 20. 18'86	- 3'66	
	44	λ Ursæ Minoris...	EB	12'7	30'0	11'2	18'8	31'0	30'9	53'5	22'1	32'5	40'7	19. 27. 34'11	+ 1'29	2'84				19. 27. 3'76	- 8'27	
	45	B.D. + 57° No. 2013..	EB	21'8	26'1	31'0	40'0	44'8	49'3	...	...	...	...	19. 27. 49'41		48'99				19. 27. 49'91	- 2'98	
	46	Piazzi XIX. 190 ..	EB	...	...	...	...	...	...	52'5	57'0	1'4	5'8	19. 28. 39'24		39'41				19. 28. 40'33	- 3'00	
	47	50 Camelopardi S.P.	EB	...	...	...	...	11'3	15'2	19'2	26'9	30'8	34'7	19. 36. 11'29		12'41				7. 36. 13'33	- 1'86	
	48	χ Cygni	EB	13'1	15'9	19'0	24'7	27'8	30'8	...	...	...	...	19. 42. 30'78		30'90				19. 42. 31'82	- 3'23	
	49	B.D. + 33° No. 3589..	EB	...	...	...	...	...	41'6	44'5	47'5	50'5	50'5	19. 42. 32'79		32'91				19. 42. 33'83	- 3'23	
	50	Groomb. 1119 S.P.	EB	58'8	10'8	24'7	46'0	0'6	12'7	37'0	44'5	3'5	15'7	19. 52. 57'57		28'64				7. 53. 29'56	+ 5'05	

For Nos. 40 to 43. Reading of Transit-Micrometer 34'600.

1. Observed over wire T with the transit-micrometer set to readings 33'100, 33'600, 34'100, 34'600, 35'100, 36'100, 36'600, 37'100, 37'600, 38'100.
 9. 25. Very unsteady.
 13. 28. Very faint; cloudy.
 20. Very unsteady; cloudy. Observed over wire T with the transit-micrometer set to readings 38'100, 37'900, 37'800, 37'700, 37'600, 33'900, 33'800, 33'700, 33'600, 33'500.
 23. 24. Observed through cloud.
 26. Observed over wire S with the transit-micrometer set to readings 36'129, 35'088, 35'882, 35'798, 35'686, 35'360, 35'290, 35'218, 35'147, 35'057.
 34. Observed over wire Q with the transit-micrometer set to readings 34'133, 34'490, 34'641, 35'433, 35'616, 36'124, 36'261, 36'521, 36'694.
 39. Observed over wire X with the transit-micrometer set to readings 36'070, 35'876, 35'690, 35'576, 35'446, 35'295, 35'178, 35'050, 34'909, 34'702.
 44. Observed over wire T with the transit-micrometer set to readings 33'282, 33'289, 33'687, 33'747, 33'819, 33'983, 34'054, 34'188, 34'270, 34'339.
 50. Observed over wire T with the transit-micrometer set to readings 36'488, 36'388, 36'288, 36'130, 36'030, 35'930, 35'758, 35'702, 35'570, 35'460.
 10. Very faint and unsteady.
 17. Cloudy. Observed over wires N, O, P, W, X and Z.
 38. Very diffused.

1898G0A01W...

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation. (Level). [Azimuth].							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
July 31	1	Piazzi VII. 311 S.P.	EB	5'3	9'9	...	...	...	...	...	59'6	26'8	53'7	20. 5. 32'69	+ 1'29							
	2	β Capricorni	EB	...	...	2'2	7'3	10'0	12'7	20'2	22'8	...	...	20. 15. 12'58	(- 3'32)		33'98			0'94	8. 5. 34'90	- 1'84
	3	Polaris	C	26'1	50'7	12'3	33'2	56'8	23'6	43'2	8'4	26'0	45'9	1. 21. 30'62	[+ 11'50]		13'31	14'18	0'87	[- 0'02]	20. 15. 14'23	- 4'12
	4	η Piscium	C	...	...	...	...	...	...	...	4'0	6'7	9'0	11'5	(- 2'77)		6'49	9'17	2'68	1'01	1. 21. 7'50	- 15'32
																	56'77	57'78	1'01		.....	
Aug. 1	5	⊙ 1 L.	S	2'9	5'5	8'3	13'4	16'1	18'7	26'5	29'1	31'8	34'5	8. 47. 18'72			} 25'58			0'87	8. 48. 26'46	
	6	⊙ 2 L.	S	16'2	18'7	21'3	26'5	29'0	31'6	39'3	42'0	44'7	47'3	8. 49. 31'70						[+ 0'04]		
	7	Spica	S	28'1	30'5	33'3	38'2	40'6	43'3	50'4	53'3	55'6	58'2	13. 19. 43'19			43'87	44'80	0'93		13. 19. 44'76	- 2'03
	8	Polaris S.P.	S	19'0	27'6	36'1	45'5	54'0	11'7	17'5	25'0	37'6	1'6	13. 20. 42'17			7'27	9'71	2'44		1. 21. 8'16	- 15'86
	9	α Coronæ	S	1'7	4'4	7'3	12'8	15'6	18'5	26'7	29'4	32'2	35'1	15. 30. 18'41			18'67	19'60	0'93		15. 30. 19'57	- 2'57
	10	α Serpentis	S	55'1	57'5	0'1	5'0	7'6	10'1	17'4	20'0	22'3	25'0	15. 39. 10'05			10'55	11'45	0'90		15. 39. 11'45	- 2'78
	11	γ Herculis	S	5'7	8'2	11'0	16'1	18'8	21'6	29'2	31'9	34'5	37'3	16. 17. 21'47			21'82	22'69	0'87		16. 17. 22'72	- 2'83
	12	Antares	S	46'7	49'4	52'4	57'9	0'6	3'4	11'6	14'3	17'2	20'1	16. 23. 3'40			4'29	5'27	0'98		16. 23. 5'19	- 3'53
	13	λ Ophiuchi	S	26'7	29'2	31'9	36'7	39'0	41'6	48'8	51'4	53'9	56'4	16. 25. 41'60			42'15	43'07	0'92		16. 25. 43'05	- 3'06
	14	η Ophiuchi	S	11'1	13'8	16'4	21'4	24'0	26'7	34'1	36'9	39'5	42'1	17. 4. 26'64			27'38	28'27	0'89		17. 4. 28'28	- 3'56
	15	Bradley 2182	S	31'8	34'5	37'3	42'6	45'2	48'1	56'0	58'8	1'4	4'2	17. 11. 48'03			48'88				17. 11. 49'78	- 3'82
	16	σ Ophiuchi	S	8'1	10'7	13'2	18'0	20'6	23'2	30'3	32'9	35'5	38'0	17. 21. 23'09			23'61	24'49	0'88		17. 21. 24'51	- 3'29
	17	α Ophiuchi	S	53'0	55'4	58'1	3'1	5'7	8'3	15'8	18'2	20'8	23'5	17. 30. 8'23			8'66	9'54	0'88		17. 30. 9'56	- 3'19
	18	Oeltz. Arg. (N.) 6629 S.P.	S	36'7	44'7	52'3	0'2	22'9	30'9	38'4	53'6	1'6	9'3	18. 9. 22'94			25'00				6. 9. 25'90	- 2'34
	19	η Serpentis	D	42'7	45'3	47'9	52'8	55'1	57'8	4'9	7'4	10'0	12'5	18. 15. 57'68			58'28	59'21	0'93	0'93	.....	
	20	λ Sagittarii	D	19'0	21'8	24'5	30'0	32'5	35'6	43'6	46'3	49'0	51'9	18. 21. 35'46			36'32	37'30	0'98		.....	
	21	1 Aquilæ	R.	19'9	22'2	24'8	29'9	32'3	34'8	42'1	44'7	47'3	49'8	18. 29. 34'82			35'68			0'87	18. 29. 36'58	- 3'78
	22	α Lyrae	S	7'9	11'2	14'3	20'7	23'8	27'1	36'4	39'6	42'8	46'1	18. 33. 27'04			27'14	28'05	0'91		18. 33. 28'04	- 3'04
	23	2 Aquilæ	S	21'7	24'2	26'9	32'0	34'4	37'0	44'3	47'0	49'5	52'1	18. 36. 36'95			37'62	38'52	0'90		18. 36. 38'52	- 3'82
	24	Piazzi VI. 273 S.P.	S	16'1	20'8	25'0	29'2	41'8	46'5	50'7	59'4	3'5	8'1	18. 52. 42'05			43'27				6. 52. 44'17	- 2'03
	25	ζ Aquilæ	R.	24'2	26'8	29'4	34'3	37'0	39'6	47'1	49'7	52'2	54'8	19. 0. 39'55			40'27	41'18	0'91		19. 0. 41'17	- 3'42
	26	ω Aquilæ	S	43'0	45'5	48'1	53'0	55'6	58'3	5'6	8'1	10'8	13'5	19. 12. 58'19			58'63	59'54	0'91		19. 12. 59'53	- 3'49
	27	Oeltz. Arg. (N.) 19405	S	52'2	55'8	59'5	...	...	...	...	27'9	31'5	35'1	19. 31. 13'71			13'66				19. 31. 14'56	- 3'08
	28	Oeltz. Arg. (N.) 19411	S	...	...	5'6	12'7	16'3	20'0	30'4	34'1	...	...	19. 32. 19'92			19'87				19. 32. 20'77	- 3'08
	29	Carrington 3015	S	13'8	23'0	31'9	39'9	46'3	56'5	5'7	...	...	...	19. 42. 22'44			13'56				19. 42. 14'46	- 4'47
	30	θ Aquilæ	H	43'8	46'1	48'7	53'8	56'2	58'8	5'9	8'5	11'0	13'5	20. 5. 58'67			59'26	0'07	0'81	0'83†	.....	
	31	Lalande 38754	S	...	...	21'4	26'7	29'5	32'3	40'4	43'5	...	...	20. 7. 32'32			32'59			0'87	20. 7. 33'49	- 3'34
	32	30 Lyncis S.P.	S	33'6	38'4	43'2	47'6	1'6	6'5	11'0	20'5	25'0	30'0	20. 12. 1'65			2'97				8. 12. 3'87	- 1'86
	33	35 Cygni	S	23'6	...	29'7	35'6	38'5	41'6	50'5	53'6	...	...	20. 14. 41'67			41'82				20. 14. 42'72	- 3'26
	34	Lalande 39332	S	50'7	53'3	55'8	0'6	3'2	5'6	13'0	15'6	18'0	20'6	20. 22. 5'68			6'29				20. 22. 7'19	- 3'86
	35	68 Aquilæ	S	45'6	48'0	50'5	55'3	58'0	0'5	7'9	10'2	12'9	15'4	20. 23. 0'47			1'08				20. 23. 1'92	- 3'86
	36	ε Delphini	S	1'6	4'2	6'7	11'6	14'2	16'8	24'2	26'8	29'3	32'0	20. 28. 16'78			17'24	18'20	0'96		20. 28. 18'14	- 3'58
	37	Lalande 39766	S	31'7	34'2	37'1	41'9	44'6	47'2	54'7	57'3	59'9	2'3	20. 31. 47'13			47'55				20. 31. 48'45	- 3'53
	38	β Delphini	S	27'2	29'7	32'3	37'4	39'9	42'5	50'0	52'5	55'2	57'9	20. 32. 42'50			42'92				20. 32. 43'82	- 3'53
	39	49 Cygni (1st Star)	S	34'7	37'6	40'4	46'2	49'1	52'1	1'0	3'8	6'5	9'7	20. 36. 52'15			52'34				20. 36. 53'24	- 3'31
	40	ε Aquarii	H	50'0	52'5	55'2	0'0	2'5	5'3	12'7	15'2	17'6	20'2	20. 42. 5'16			5'84			0'83†	.....	
	41	Lalande 40436	S	4'3	8'3	12'2	...	...	...	...	42'4	46'2	50'0	20. 48. 27'27			27'15			0'87	20. 48. 28'05	- 3'17
	42	Lalande 40439	S	16'5	20'4	24'2	32'0	35'6	39'5	50'6	54'3	58'3	2'1	20. 48. 39'41			39'29				20. 48. 40'19	- 3'17
	43	Groombridge 3369	S	53'5	57'0	0'7	7'8	11'4	15'0	25'5	29'1	32'8	36'4	20. 58. 14'97			14'92				20. 58. 15'82	- 3'20
	44	6 Equulei	S	15'3	17'7	20'2	25'2	27'7	30'2	37'8	40'1	42'7	45'3	21. 5. 28'26			28'73				21. 5. 29'64	- 3'60
	45	Groombridge 3411	S	...	...	...	...	...	...	24'9	29'0	41'3	45'4	21. 8. 29'09			28'88				21. 8. 29'79	- 3'17
	46	Piazzi XXI. 63	S	12'0	15'5	18'7	25'3	28'5	31'9	41'6	45'1	48'4	51'8	21. 11. 31'93			31'97				21. 11. 32'88	- 3'23
	47	Piazzi XXI. 87	S	49'1	52'0	54'6	59'8	2'7	5'5	13'4	16'1	18'9	21'7	21. 17. 5'42			6'26				21. 17. 7'17	- 4'33
	48	35 Vulpeculæ	S	50'5	53'3	56'1	1'9	4'3	7'3	15'5	18'3	21'2	24'1	21. 23. 7'29			7'55				21. 23. 8'46	- 3'36
	49	β Aquarii	S	...	...	...	2'2	4'8	7'5	14'7	17'3	19'6	22'4	21. 26. 7'37			8'01	8'88	0'87		21. 26. 8'92	- 3'86
	50	Piazzi IX. 112 S.P.	S	...	...	...	2'4	40'2	53'2	5'2	...	...	...	21. 33. 39'99			43'14				9. 33. 44'05	- 1'19
	51	ε Pegasi	S	51'7	54'3	56'7	1'8	4'3	6'9	14'2	16'7	19'3	22'0	21. 39. 6'83			7'30	8'19	0'89		21. 39. 8'21	- 3'57
	52	δ Capricorni	S	5'0	7'7	10'2	15'1	17'8	20'5	28'1	30'8	33'3	36'0	21. 41. 20'49			21'25	22'10	0'85		21. 41. 22'16	- 4'08
	53	31 Ursæ Maj. S.P.	S	32'1	36'2	40'1	43'9	55'3	59'4	3'0	10'9	14'8	18'7	21. 48. 55'38			56'49				9. 48. 57'40	- 1'72

1. Observed in dark field with wires illuminated over wires X, W, O, N and M.

3. Observed over wire O with the transit-micrometer set to readings 35'740, 35'960, 36'170, 36'340, 36'530, 36'771, 36'968, 37'160, 37'318, 37'506.

8. Observed over wire U with the transit-micrometer set to readings 36'543, 36'498, 36'414, 36'321, 36'237, 36'117, 35'511, 35'401, 35'321, 35'063.

29. Observed over wire T with the transit-micrometer set to readings 35'426, 35'593, 35'828, 36'017, 36'155, 36'369, 36'581.

47, 52. Very faint.

53. Observed in dark field with wires illuminated.

No. for Reference.		NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at 0 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).						h m s	h m s	h m s	
															#	s								
				s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s		
Aug. 1	1	15 Cephei	S	4.1	9.0	13.9	23.5	28.5	33.2	...	...	...	...	22. 0. 33.24	+ 1.29	32.85			0.87	22. 0. 33.76	- 3.23			
	2	Oeltz. Arg. (N.) 23360	S	...	41.8	46.9	57.9	1.3	6.1	20.5	25.5	30.3	...	22. 1. 6.38	(- 2.77)	5.98			[+ 0.04]	22. 1. 6.89	- 3.23			
	3	Groombridge 3700	S	26.3	29.7	33.2	39.8	43.2	46.7	56.5	59.9	3.3	6.7	22. 6. 46.58	[+ 11.50]	46.61				22. 6. 47.52	- 3.23			
	4	ρ Aquarii	S	30.7	33.3	35.8	40.7	43.3	45.9	53.3	55.8	58.3	0.9	22. 14. 45.84		46.51				22. 14. 47.42	- 3.80			
Aug. 2	5	h ³ Sagittarii	HF	8.9	11.5	14.2	20.0	22.7	25.3	33.4	36.2	38.9	41.5	19. 30. 25.30		26.16	27.14	0.98	0.92†	.....				
	6	e ¹ Sagittarii	HF	32.9	35.5	38.1	43.1	45.9	48.5	56.1	58.5	1.2	3.8	19. 34. 48.40		49.16	50.03	0.87	[+ 0.01]	.....				
Aug. 3	7	⊙ 1 L.	L	47.2	49.7	52.2	57.3	59.9	2.7	10.2	12.9	15.5	18.4	8. 55. 2.64	[+ 12.10]					8. 56. 10.35				
	8	⊙ 2 L.	L	0.0	2.4	4.9	10.2	12.9	15.4	23.0	25.5	28.2	31.1	8. 57. 15.40										
	9	Aldebaran	CD	42.2	44.9	47.4	52.5	55.1	57.8	5.4	8.0	10.5	13.4	4. 29. 57.76	[+ 12.70]	58.20	59.18	0.98	0.96	.....				
	10	δ 2 L.	CD	...	...	...	17.4	20.1	23.0	31.6	34.2	37.2	40.1	4. 36. 23.05		23.35			[+ 0.02]	4. 35. 13.08				
	11	ε Aurigæ	CD	56.5	59.5	2.3	8.1	11.1	14.0	22.9	25.8	28.9	31.8	4. 50. 14.13		14.34	15.39	1.05		.....				
	12	Rigel	CD	17.1	19.6	22.1	27.1	29.7	32.0	39.5	42.0	44.6	47.1	5. 9. 32.12		32.84	33.88	1.04		.....				
Aug. 4	13	⊙ 2 L.	CD	...	...	...	...	3.8	6.4	14.1	16.8	19.3	22.0	9. 1. 6.45	+ 1.52	6.93				9. 0. 1.71				
	14	Venus 1 L.	CD	8.9	...	13.8	...	...	24.1	...	34.2	...	39.8	9. 30. 24.18	(- 2.19)					9. 30. 25.89				
	15	Venus 2 L.	CD	...	11.8	...	19.5	...	...	32.2	...	37.5	...	9. 30. 24.67										
	16	β Ophiuchi	CD	5.4	8.0	10.5	15.3	17.8	20.4	27.8	30.2	32.7	35.3	17. 38. 20.38	+ 23.70	22.49	23.36	0.87		.....				
	17	β Ophiuchi (E&E)	CD	10.5	25.0	...	55.0	...	24.6	39.3	...	...	...	17. 38. 20.22		22.33	23.36	1.03		.....				
	18	μ Herculis	CD	6.6	9.1	12.1	17.6	20.5	23.2	31.5	34.2	37.1	40.1	17. 42. 23.24		25.27	26.21	0.94		.....				
	19	δ Ursæ Minoris...	CD	9.1	16.0	25.1	42.0	49.7	56.2	27.9	36.0	52.6	11.0	18. 5. 59.95	+ 1.52	51.39	51.96	0.57		.....				
	20	Cephei 51 S.P.	CD	58.2	8.0	14.9	40.9	55.4	9.1	35.5	42.9	48.9	15.3	18. 51. 35.54		47.19	47.76	0.57		.....				
	21	ε Aquilæ	CD	40.7	43.3	46.0	50.9	53.4	56.0	3.6	6.1	8.8	11.5	18. 54. 56.07		56.57	57.48	0.91		.....				
	22	W. B. XIX. 646...	CD	0.1	2.6	5.1	...	...	15.1	...	24.8	27.3	29.8	19. 28. 14.99		15.71				19. 28. 16.69	- 3.85			
	23	Bradley 2496	CD	47.9	51.6	55.5	2.9	6.7	11.0	22.0	26.0	30.0	34.0	19. 33. 10.82		10.78				19. 33. 11.76	- 3.02			
	24	B.D.+39° No. 3902	CD	56.6	59.9	3.0	9.4	12.8	16.1	25.6	28.8	32.0	35.4	19. 42. 16.01		16.17				19. 42. 17.15	- 3.15			
	25	19 Cygni	CD	36.0	38.9	42.2	48.5	51.5	54.9	4.1	7.2	10.5	13.8	19. 46. 54.81		54.99				19. 46. 55.97	- 3.17			
	26	14 Vulpeculæ ...	CD	28.8	31.2	34.0	39.3	42.0	44.7	52.9	55.3	58.0	0.9	19. 54. 44.75		45.16				19. 54. 46.14	- 3.38			
	27	Piazzi XX. 36 ...	CD	21.6	24.4	27.2	32.5	35.3	38.2	46.2	49.1	52.0	54.9	20. 7. 38.18		38.54				20. 7. 39.52	- 3.35			
	28	ζ Delphini	CD	13.4	16.0	18.6	23.7	26.3	28.8	36.2	38.9	41.6	44.1	20. 30. 28.80		29.31				20. 30. 30.29	- 3.55			
	29	2 Ceti	H	10.9	13.6	16.2	21.4	24.0	26.8	34.4	36.9	39.5	42.2	23. 58. 26.63		27.52	28.29	0.77	0.79†	.....				
	30	α Andromedæ ...	H	45.8	48.6	51.4	56.9	59.8	2.6	11.0	13.9	16.6	19.5	0. 3. 2.65		2.98	3.82	0.84	0.81†	.....				
	31	β Tauri	W	...	...	...	37.9	40.8	43.8	52.0	54.9	57.6	0.7	5. 19. 43.71	(- 1.56)	44.02	45.11	1.09	1.04	5. 19. 45.08	- 2.10			
	32	δ 2 L.	W	...	...	...	...	11.0	14.1	17.1	20.2	23.4	26.5	5. 36. 2.83	[+ 10.30]	3.14			[+ 0.08]	5. 34. 51.34				
	33	Procyon	W	36.2	38.9	41.2	...	...	51.3	...	0.9	3.7	6.1	7. 33. 51.21		51.73	52.88	1.15		7. 33. 52.80	- 1.33			
	34	Pollux	W	...	...	...	...	...	5.8	8.5	11.4	14.1	7. 38. 57.40		57.72	58.62	0.90			7. 38. 58.79	- 1.68			
Aug. 5	35	⊙ 1 L.	W	57.8	13.1	28.9	31.3	34.0	39.6	...	...	...	...	9. 2. 44.39		44.82				9. 3. 52.06				
	36	ω Aquilæ	W	42.8	45.2	47.9	53.0	55.5	58.0	5.4	8.0	10.5	13.0	19. 12. 57.97		58.44	59.53	1.09		19. 12. 59.54	- 3.48			
	37	τ Draconis	R	...	...	...	18.5	26.6	35.1	0.6	...	...	...	19. 17. 35.38		35.20				19. 17. 36.30	- 2.74			
	38	α Vulpeculæ ...	R	35.5	51.8	8.0	10.7	13.3	...	...	...	...	...	19. 24. 24.28		24.83	25.95	1.12		19. 24. 25.93	- 3.30			
	39	α Vulpeculæ ...	W	...	...	...	...	32.5	35.1	38.0	40.8	56.9	13.2	19. 24. 24.46		24.81	25.95	1.14		19. 24. 25.91	- 3.30			
	40	λ Ursæ Minoris...	W	4.6	12.1	18.1	23.1	29.1	33.4	39.1	43.9	49.1	54.5	19. 27. 27.44		4.99	4.55	0.44		.....				
	41	W. B. XIX. 646...	W	0.0	...	...	10.1	12.4	14.9	22.1	...	...	...	29.8	19. 28. 14.91		15.52			19. 28. 16.62	- 3.85			
	42	Groombridge 2899	W	...	...	...	...	42.1	58.5	4.0	9.5	15.2	19. 33. 42.27		41.95				19. 33. 43.06	- 2.90				
	43	50 Camelopardi S.P.	W	48.1	...	56.0	59.8	11.3	15.1	19.1	26.9	...	34.9	19. 36. 11.34		12.27				7. 36. 13.38	- 1.99			
	44	30 Lyncis S.P. ...	W	5.9	33.5	38.5	43.1	47.9	...	...	...	...	...	20. 12. 1.65		2.75				8. 12. 3.86	- 1.96			
	45	68 Aquilæ	W	...	47.9	50.3	55.2	57.9	0.2	7.6	10.1	12.7	...	20. 23. 0.28		0.88				20. 23. 1.99	- 3.89			
	46	Groombridge 3224	W	...	...	...	43.0	47.1	51.2	3.4	...	...	...	20. 29. 51.27		51.25				20. 29. 52.36	- 3.13			
	47	ζ Delphini	W	...	...	18.6	23.6	26.1	28.8	36.3	38.9	...	...	20. 30. 28.77		29.20				20. 30. 30.31	- 3.55			
	48	Lalande F. 3613...	W	...	...	...	...	56.0	...	3.8	19.7	37.5	20. 41. 55.83		53.53				20. 41. 54.64	- 3.67				
	49	Oeltz. Arg. (N.) 21350	W	38.0	46.1	54.5	10.1	18.5	26.5	50.2	58.5	6.9	14.5	20. 50. 26.50		25.72				20. 50. 26.83	- 3.24			
	50	ζ Cygni	W	15.5	18.2	21.2	26.9	29.7	32.5	40.9	43.9	46.7	49.6	21. 8. 32.55		32.85	33.94	1.09		21. 8. 33.96	- 3.37			

For Nos. 16 to 18. Reading of Transit-Micrometer 35".002.

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 17, — 34".70.

Corrections for passage of Semidiameter, Nos. 10, 13, 32, and 35, — 71".24 : — 66".19 : — 72".87 : and + 66".17.

2. Very faint.

13, 35. Very cloudy.

19. Observed over wire T with the transit-micrometer set to readings 31".341, 31".677, 31".914, 32".323, 32".500, 32".638, 33".382, 33".576, 34".003, 34".418.

20. Observed over wire V with the transit-micrometer set to readings 35".911, 35".740, 35".596, 35".099, 34".850, 34".517, 33".983, 33".840, 33".744, 33".221.

32, 39. Observed over wires U, V, W, X, Y and Z.

38. Observed over wires M, N, O, P and Q.

40. Observed over wire X with the transit-micrometer set to readings 34".203, 34".242, 34".270, 34".318, 34".350, 34".390, 34".440, 34".458, 34".520, 34".530.

44. Observed over wires Y, X, W, V and U.

10, 32. Correction to R.A. on true meridian, + c".01.

14, 15, 19, 20, 32, 48. Cloudy.

35. Observed over wires M, N, O, P, Q and R.

50. Very faint; cloudy.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). (Azimuth).	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
				h	m	s	h	m	s	h	m	s	h									m	s
Aug. 5	1	Piazzi XXI. 87...	W	49.1	51.7	54.4	59.8	2.5	5.3	13.0	15.8	18.5	21.3	21. 17. 5.18	+ 1.52	5.98			1.04	21. 17. 7.09	- 4.38	
	2	δ Capricorni	W	4.9	7.4	10.0	15.1	17.7	20.3	...	...	...	...	21. 41. 20.32	(- 1.56)	21.05	22.16	1.11	[+ 0.08]	21. 41. 22.16	- 4.14	
	3	17 Pegasi	W	39.1	41.5	44.1	...	...	54.1	...	4.0	6.5	9.0	21. 51. 54.06	[+ 10.30]	54.53				21. 51. 55.64	- 3.58	
	4	α Aquarii	W	13.6	16.1	18.7	23.5	26.0	28.5	36.0	38.3	40.9	43.5	22. 0. 28.55		29.13	30.25	1.12		22. 0. 30.24	- 3.76	
	5	24 Cephei	W	3.9	11.9	20.1	36.0	43.7	51.8	15.2	23.0	31.1	39.2	22. 7. 51.71		50.95				22. 7. 52.06	- 3.53	
	6	Bradley 2934	W	...	...	...	...	...	...	...	55.0	3.2	36.9	22. 8. 16.33		15.60				22. 8. 16.71	- 3.53	
	7	ρ Aquarii	W	30.8	33.0	35.8	40.6	43.2	45.7	53.1	55.7	58.0	0.7	22. 14. 45.70		46.35				22. 14. 47.46	- 3.87	
	8	Piazzi X. 22 S.P.	W	37.1	47.4	42.0	51.9	1.6	...	...	...	...	...	22. 18. 18.90		22.74				10. 18. 23.85	- 0.07	
Aug. 6	9	Polaris S.P.	HF	7.4	22.1	35.2	...	...	...	...	...	...	...	13. 20. 53.99	(- 2.03)	14.30	14.79	0.49	1.05	.....		
	10	ρ Capricorni	HF	42.5	45.1	47.9	52.9	55.5	58.1	6.0	8.5	...	...	20. 22. 58.17		58.90	59.97	1.07	[+ 0.04]	.....		
	11	W. B. (2) XX. 870	HF	3.4	6.8	10.0	16.9	20.2	23.8	33.7	37.0	40.3	44.0	20. 26. 23.66		23.75				20. 26. 24.83	- 3.19	
	12	ε Delphini	HF	...	...	6.7	11.6	14.1	16.8	24.2	26.8	...	...	20. 28. 16.75		17.19	18.23	1.04		.....		
	13	α Delphini	HF	35.1	37.5	40.1	45.1	47.9	50.5	58.1	0.6	3.1	5.8	20. 34. 50.42		50.83	51.94	1.11		.....		
	14	Piazzi XX. 297 (1st Star)	HF	32.4	34.8	37.3	42.2	44.9	47.2	54.5	57.0	59.5	2.0	20. 41. 47.22		47.81				20. 41. 48.89	- 3.94	
	15	Oeltz. Arg. (N.) 21350	HF	...	...	54.0	10.5	18.2	26.5	50.7	58.7	...	...	20. 50. 26.59		25.71				20. 50. 26.79	- 3.23	
	16	ι Equulei (1st Star)	HF	39.8	42.1	44.9	49.7	52.2	54.7	2.0	4.5	6.9	9.5	20. 53. 54.67		55.19				20. 53. 56.27	- 3.74	
	17	ι Equulei (2nd Star)	HF	40.4	42.9	45.5	50.5	52.9	55.5	2.8	5.2	7.8	10.4	20. 53. 55.43		55.95				20. 53. 57.03	- 3.74	
	18	Lalande 40906 ...	HF	54.6	57.3	0.1	5.7	8.5	11.3	19.6	22.5	25.4	28.2	21. 1. 11.36		11.65				21. 1. 12.74	- 3.39	
	19	ζ Cygni	HF	15.5	18.2	21.2	26.9	29.8	32.7	41.0	44.0	46.8	49.6	21. 8. 32.61		32.87	33.95	1.08		.....		
	20	Piazzi IX. 28 S.P.	HF	...	...	54.1	58.2	10.6	14.5	18.8	26.8	...	...	21. 13. 10.42		11.41				9. 13. 12.50	- 1.81	
21	Pallas	HF	9.4	11.9	14.5	...	...	24.8	...	34.7	37.2	40.0	21. 21. 24.66		25.09				21. 21. 26.18			
Aug. 7	22	⊙ 2 L.....	S	20.2	22.9	25.6	30.9	33.1	36.0	43.6	46.2	48.9	51.5	9. 12. 35.93	(- 1.82)	36.35			1.08	9. 11. 31.41		
	23	α Aquilæ	S	29.6	32.0	34.6	39.6	42.0	44.6	52.0	54.5	57.0	59.7	19. 45. 44.60		45.08	46.12	1.04	[- 0.04]	.....		
	24	Groombridge 2951	S	10.4	13.6	16.9	23.6	26.5	29.7	39.0	42.0	45.5	48.8	19. 47. 29.65		29.81				19. 47. 30.86	- 3.15	
	25	14 Vulpeculæ ...	S	28.8	31.3	34.0	39.2	41.9	44.8	52.7	55.5	58.1	1.0	19. 54. 44.77		45.12				19. 54. 46.17	- 3.38	
	26	θ Aquilæ	S	43.5	46.0	48.4	53.4	56.0	58.8	5.9	8.4	10.9	13.4	20. 5. 58.51		59.08	0.10	1.02		.....		
	27	Piazzi XX. 36....	S	21.6	24.3	27.1	...	...	38.2	...	49.1	52.6	55.0	20. 7. 38.22		38.53				20. 7. 39.58	- 3.35	
	28	23 Vulpeculæ ...	S	12.9	15.6	18.5	23.9	26.6	29.5	37.7	40.7	43.5	46.2	20. 11. 29.55		29.84				20. 11. 30.89	- 3.34	
	29	ζ Cygni	S	...	...	29.4	35.4	38.4	41.5	50.3	53.4	...	...	20. 14. 41.49		41.37				20. 14. 42.42	- 3.26	
	30	B.D + 47° No. 3091	S	23.1	26.8	30.5	37.7	41.2	45.2	55.7	59.3	3.1	6.9	20. 19. 45.00		45.04				20. 19. 46.09	- 3.14	
	31	W. B. (2) XX. 870	S	3.3	6.9	10.2	17.0	20.2	24.0	33.8	37.1	40.8	44.0	20. 26. 23.75		23.86				20. 26. 24.91	- 3.19	
	32	Groombridge 3198	S	...	...	...	51.0	54.7	58.0	8.0	11.5	14.8	18.5	20. 26. 58.03		58.14				20. 26. 59.19	- 3.19	
	33	49 Cygni (2nd Star)...	S	34.6	37.5	40.5	46.1	49.1	52.1	0.6	3.6	6.8	9.6	20. 36. 52.07		52.32				20. 36. 53.37	- 3.33	
	34	Piazzi XX. 349...	S	...	24.0	28.2	36.9	41.4	45.8	58.4	2.0	7.3	...	20. 44. 45.68		45.56				20. 44. 46.61	- 3.15	
	35	Bradley 2712	S	...	...	...	...	...	...	24.8	28.1	31.6	35.4	20. 50. 14.63		14.72				20. 50. 15.77	- 3.23	
	36	ζ Cygni	S	15.5	18.3	21.3	26.9	29.7	32.7	41.0	44.0	46.0	49.9	21. 8. 32.66		32.94	33.96	1.02		.....		
	37	Oeltz. Arg. (N.) 22046	S	...	...	...	55.6	59.6	3.6	14.9	...	22.0	25.6	21. 16. 3.42		3.43				21. 16. 4.47	- 3.24	
	38	35 Vulpeculæ ...	S	50.3	53.1	56.0	1.6	4.2	7.1	15.3	18.1	21.0	23.9	21. 23. 7.10		7.40				21. 23. 8.44	- 3.42	
	39	ε Aquarii	S	0.1	2.8	5.2	10.1	12.6	15.1	22.5	25.1	27.6	30.2	21. 32. 15.17		15.81	16.89	1.08		.....		
	40	16 Pegasi	S	5.3	8.1	11.0	16.2	19.1	21.9	30.0	32.7	35.4	38.1	21. 48. 21.82		22.14	23.16	1.02		.....		
	41	Groombridge 3614	S	8.5	13.4	17.8	...	...	29.9	34.1	...	50.5	54.7	...	21. 51. 34.06		33.98				21. 51. 35.02	- 3.28
	42	18 Pegasi	S	...	...	48.2	53.1	55.7	58.1	5.5	8.0	...	...	21. 54. 58.15		58.65				21. 54. 59.69	- 3.68	
	43	24 Cephei	S	4.0	12.0	20.2	35.8	44.0	51.9	15.1	23.5	31.2	39.5	22. 7. 51.84		51.03				22. 7. 52.07	- 3.57	
	44	Piazzi X. 26 S.P.	S	...	...	...	46.0	6.5	13.4	20.5	...	...	...	22. 13. 6.45		8.00				10. 13. 9.04	- 1.54	
	45	Piazzi X. 22 S.P.	S	...	...	...	...	...	...	0.6	41.2	1.8	22.5	22. 18. 19.24		23.18				10. 18. 24.22	- 0.02	
	46	Lalande 44036 ...	S	9.5	12.1	14.5	19.4	22.0	24.5	31.6	34.1	36.8	39.2	22. 27. 24.41		24.96				22. 27. 26.00	- 3.71	
	47	Groomb. 1669 S.P.	S	...	...	...	2.5	23.4	30.2	37.4	...	...	...	22. 34. 23.23		24.77				10. 34. 25.81	- 1.48	
	48	ζ Pegasi	S	3.4	6.0	8.3	13.4	15.9	18.4	26.0	28.5	31.0	33.5	22. 36. 18.48		18.95	20.01	1.06		.....		
49	Groombridge 3877	S	7.1	11.1	15.3	23.2	27.2	31.3	43.1	47.1	51.5	55.5	22. 40. 31.30		31.25				22. 40. 32.29	- 3.33		
50	λ Aquarii	S	58.3	0.9	3.5	8.4	10.9	13.6	...	...	...	...	22. 47. 13.43		14.06	15.09	1.03		.....			
51	α Pegasi	S	21.4	24.0	26.6	31.5	34.1	36.8	44.1	46.9	49.5	52.0	22. 59. 36.73		37.15	38.23	1.08		.....			

Correction for passage of Semidiameter, No. 22, — 66^s.00.

- 2, 7. Cloudy.
6. Observed over wires W, X and Z.
8. Observed over wire T with the transit-micrometer set to readings $37^{\circ}600$, $37^{\circ}100$, $31^{\circ}600$, $31^{\circ}100$, $30^{\circ}600$.
9. Observed over wire T with the transit-micrometer set to readings $36^{\circ}536$, $36^{\circ}403$, $36^{\circ}299$.
27, 34, 40. Very faint.

- 3, 10, 39, 44, 50. Very faint; cloudy.
8, 9. Very cloudy.
- 24, 27, 30, 31. Observed in partially illuminated field.
37. Observed in dark field with wires illuminated.

MO.	D.	H.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896°.
																	Collimation.							
						I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	[Azimuth].						
						s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	
Aug. 8	1			α Delphini.....	H	35.1	37.7	40.2	45.3	48.0	50.5	58.1	0.8	3.2	6.0	20.34.50.53	+ 1.52	50.98	51.95	0.97	0.93	.....		
	2			ε Aquarii	H	...	...	55.4	0.1	2.8	5.1	12.6	15.1	17.8	20.2	20.42.5.24	(- 1.45)	5.90	6.80	0.90	[+ 0.01]	.....		
	3			μ Aquarii	H	50.0	52.6	55.1	0.0	2.5	5.1	12.4	15.0	17.4	20.1	20.47.5.06	[+ 10.30]	5.71	6.68	0.97	.....	.....		
	4			8 Aquarii	H	...	...	...	9.6	12.0	14.5	22.0	24.4	27.1	29.8	20.54.14.55		15.24				20.54.16.18	- 4.14	
	5			35 Vulpeculæ ...	H	50.5	53.2	56.2	1.6	4.5	7.2	15.4	18.2	21.0	24.0	21.23.7.22		7.55				21.23.8.49	- 3.43	
	6			β Aquarii	H	52.5	55.1	57.5	2.4	4.9	7.5	14.8	17.1	19.9	22.2	21.26.7.43		8.06	8.97	0.91	.....	.....		
Aug. 10	7			⊙ 1 L.....	EB	33.5	36.0	38.7	43.8	46.2	49.1	56.5	59.0	1.8	4.2	9.21.48.92	+ 1.18	} 54.97			1.19	9.22.56.14		
	8			⊙ 2 L.....	EB	44.9	47.4	50.0	55.1	57.6	0.2	8.0	10.5	12.9	15.7	9.24.0.27	(- 2.25)				[- 0.05]	.....		
	9			Polaris S.P.	EB	2.2	10.1	20.9	49.2	56.6	11.9	25.6	12.9	42.2	51.8	13.20.55.81			17.68	18.08	0.40	.....		
	10			Arcturus	EB	40.0	42.5	45.2	50.2	53.0	55.8	3.5	6.0	8.8	11.4	14.10.55.68			56.00	57.15	1.15	14.10.57.16	- 2.12	
	11			δ Ursæ Minoris...	EB	50.5	1.1	9.6	34.0	41.9	0.9	7.8	13.7	35.1	42.4	18.5.56.22			48.77	49.92	1.15	.....		
	12			Groomb. 1127 S.P.	EB	16.7	21.4	25.8	30.1	43.5	48.2	52.7	1.5	6.1	10.5	18.10.43.58			44.70			6.10.45.85	- 2.54	
	13			η Serpentis.....	EB	42.6	45.1	47.5	52.5	54.9	57.5	4.9	7.2	9.9	12.3	18.15.57.48			58.02	59.17	1.15	18.15.59.17	- 3.54	
	14			109 Herculis.....	EB	1.5	4.2	6.9	12.2	14.9	17.6	25.5	28.1	30.9	33.8	18.19.17.60			17.90			18.19.19.05	- 3.15	
	15			α Lyrae	EB	7.6	10.8	14.0	20.1	23.3	26.6	30.0	39.1	42.2	45.8	18.33.26.60			26.70	27.95	1.25	18.33.27.85	- 2.94	
	16			42 Camelopardi S.P.	EB	27.3	33.9	40.7	47.1	6.3	12.9	19.4	32.2	39.2	45.6	18.40.6.36			7.92			6.40.9.07	- 2.66	
	17			Cephei 51 S.P. ...	EB	2.1	8.3	14.2	31.9	37.9	44.0	58.7	3.5	9.8	22.8	18.51.38.53			48.55	50.02	1.47	.....		
	18			Groomb. 1244 S.P.	EB	30.6	36.1	42.0	47.6	4.0	10.0	15.4	...	...	...	18.52.4.12			5.49			6.52.6.64	- 2.51	
	19			Piazzi VI. 273 S.P.	EB	...	...	...	...	...	59.3	4.0	8.1	34.0	59.9	18.52.42.30			43.38			6.52.44.53	- 2.35	
	20			Bradley 2440.....	EB	...	27.1	38.1	59.9	10.9	22.0	54.1	4.9	16.2	...	19.2.21.86			20.31			19.2.21.46	- 2.31	
	21			Piazzi VI. 285 S.P.	EB	...	...	...	...	36.1	53.0	59.6	...	59.5	15.9	19.5.36.14			39.68			7.5.40.83	- 2.99	
	22			δ Draconis.....	EB	55.4	1.6	8.1	20.9	27.5	34.1	...	...	...	...	19.12.34.00			33.33			19.12.34.48	- 2.63	
	23			Piazzi VII. 67 S.P.	EB	22.1	29.1	36.1	42.9	3.2	10.0	16.9	30.1	37.1	44.0	19.20.3.05			4.66			7.20.5.81	- 2.45	
	24			λ Ursæ Minoris...	EB	42.5	50.0	56.9	15.7	22.0	29.1	47.3	53.6	8.0	15.2	19.27.24.67			58.87	0.36	1.49	.....		
	25			48 Camelopardi S.P.	EB	32.0	37.1	42.0	47.1	1.5	6.8	11.5	21.2	26.2	31.1	19.31.1.58			2.79			7.31.3.94	- 2.27	
	26			γ Aquilæ.....	EB	...	...	...	...	...	28.3	30.9	33.3	36.0	...	19.41.20.90			21.32	22.42	1.10	19.41.22.47	- 3.55	
	27			Lalande F. 1197 S.P.	EB	58.5	6.5	15.8	24.5	49.4	58.0	6.5	...	...	...	19.51.49.17			51.12			7.51.52.27	- 2.30	
	28			55 Camelopardi S.P.	EB	...	...	0.3	6.9	27.3	34.1	41.1	54.8	...	...	20.2.27.28			28.90			8.2.30.05	- 2.21	
	29			α ¹ Capricorni.....	EB	...	42.5	45.3	50.1	52.8	55.4	2.9	5.3	8.0	...	20.11.55.34			55.98			20.11.57.13	- 4.11	
	30			α ² Capricorni.....	EB	...	...	...	14.3	16.8	19.5	26.9	29.5	32.0	34.7	20.12.19.43			20.07	21.17	1.10	20.12.21.22	- 4.12	
	31			W. B. XX. 922 ...	EB	...	...	...	...	...	5.3	7.8	10.4	25.6	41.0	20.37.55.11			55.48			20.37.56.63	- 3.57	
	32			Piazzi XX. 298...	EB	4.0	6.8	9.4	14.9	17.3	20.1	28.1	30.9	33.4	36.2	20.42.20.15			20.92			20.42.22.07	- 4.45	
	33			B.D. + 55° No. 2473	EB	...	...	...	17.3	21.4	25.6	...	...	...	...	20.45.25.82			25.61			20.45.26.76	- 3.14	
	34			μ Aquarii.....	B	...	...	...	...	2.1	5.1	12.3	14.8	17.3	20.0	20.47.4.89			5.50	6.69	1.19	.....		
	35			32 Vulpeculæ ...	B	52.8	55.4	58.3	4.0	6.7	9.5	17.8	20.6	23.3	26.2	20.50.9.50			9.74	11.02	1.28	.....		
	36			ρ Ursæ Maj. S.P...	EB	29.5	36.4	43.1	49.8	9.0	15.9	22.8	35.6	42.2	48.9	20.53.9.22			10.81			8.53.11.96	- 1.93	
	37			Groomb. 1500 S.P.	EB	22.0	25.6	29.8	33.7	...	...	...	...	...	...	20.55.45.09			46.07			8.55.47.22	- 1.90	
	38			Lalande 40842 ...	EB	48.0	50.5	53.4	58.6	1.2	4.0	12.0	14.8	17.4	20.2	21.1.4.05			4.82			21.1.5.97	- 4.46	
	39			Groombridge 3411	EB	4.0	8.1	12.5	20.5	24.7	28.7	41.1	45.1	49.4	53.6	21.8.28.83			28.66			21.8.29.81	- 3.22	
	40			α Equulei	EB	24.7	27.1	29.8	34.6	37.1	39.8	47.0	49.5	51.9	54.6	21.10.39.65			40.13	41.23	1.10	21.10.41.28	- 3.76	
	41			Piazzi XXI. 142...	EB	...	...	...	7.4	13.2	18.9	35.4	41.0	46.6	52.3	21.20.18.84			18.35			21.20.19.50	- 3.25	
	42			ε Pegasi	EB	51.6	54.0	56.7	1.6	4.1	6.8	14.1	16.5	19.1	21.8	21.39.6.67			7.10	8.30	1.20	21.39.8.24	- 3.68	
	43			δ Capricorni	EB	4.9	7.5	10.0	15.2	17.9	20.4	28.1	30.5	33.1	36.0	21.41.20.40			21.08	22.22	1.14	21.41.22.22	- 4.20	
Aug. 11	44			⊙ 1 L.....	W	20.3	23.1	25.8	30.7	33.5	36.0	43.5	46.1	48.8	51.5	9.25.35.97	[+ 11.96]	} 42.04			1.16	9.26.43.17		
	45			⊙ 2 L.....	W	31.9	34.3	36.9	42.0	44.7	47.1	54.7	57.4	0.1	2.8	9.27.47.23					[- 0.08]	.....		
	46			α Ophiuchi	W	52.7	55.2	57.9	2.8	5.4	8.0	15.5	18.0	20.6	23.2	17.30.7.97			8.44	9.44	1.00	17.30.9.54	- 3.09	
	47			β Ophiuchi	W	...	...	...	...	19.1	21.8	29.1	31.5	34.0	36.5	17.38.21.70			22.26	23.30	1.04	17.38.23.36	- 3.26	
	48			δ Ursæ Minoris...	W	38.8	44.4	52.9	1.9	10.2	18.9	...	...	...	...	18.5.57.85			49.33	49.61	0.28	.....		
	49			η Serpentis.....	W	42.6	45.1	47.6	52.5	54.9	57.5	4.9	7.3	9.9	12.3	18.15.57.50			58.13	59.16	1.03	18.15.59.23	- 3.53	
Aug. 11	50			Piazzi VI. 75 S.P.R.	W	6.4	20.4	34.0	47.8	...	...	...	...	...	...	18.28.28.84		31.19			6.28.32.29	- 3.41		

9. Very faint. Observed through cloud over wire O with the transit-micrometer set to readings 35° 743, 35° 665, 35° 568, 35° 330, 35° 244, 35° 115, 34° 468, 34° 040, 33° 797, 33° 723.
11. Observed over wire R with the transit-micrometer set to readings 34° 618, 34° 874, 35° 068, 35° 667, 35° 858, 36° 287, 36° 453, 36° 599, 37° 118, 37° 278.
17. Observed over wire X with the transit-micrometer set to readings 36° 227, 36° 116, 35° 992, 35° 652, 35° 538, 35° 403, 35° 103, 35° 007, 34° 912, 34° 640.
19. Observed over wires Q, P, O, N and M.
24. Observed over wire S with the transit-micrometer set to readings 35° 451, 35° 510, 35° 561, 35° 671, 35° 748, 35° 797, 35° 920, 35° 976, 36° 062, 36° 113.
31. Observed over wires V, W, X, Y and Z. 31, 33. Observed in dark field with wires illuminated. 37. Very faint; hazy.
48. Observed over wire T with the transit-micrometer set to readings 35° 100, 35° 300, 35° 500, 35° 700, 35° 900, 36° 100. 50. Very diffused; windy.

1898 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire. h m s	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.
															Collimation. (Level).									
															[Azimuth].									
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		s	"					s	s	s	s
Aug. 11	1	Piazzi VI. 75 S.P.	W	...	...	...	...	28.0	42.0	56.0	22.4	36.9	50.5	18. 28. 27.82	+ 1.18	31.29			1.16	6. 28. 32.39			3.41	
	2	a Lyrae	W	7.5	10.8	14.0	20.2	23.4	26.7	36.0	39.2	42.3	45.7	18. 33. 26.63	(- 2.25)	26.76	27.93	1.17	[- 0.08]	18. 33. 27.86			2.92	
	3	2 Aquilæ	S	21.8	24.2	26.9	31.9	34.3	36.9	44.2	46.9	49.4	52.0	18. 36. 36.89	[+ 1.196]	37.59	38.48	0.89	0.97	.....				
	4	β ¹ Lyrae	S	58.4	1.5	4.5	10.3	13.3	16.3	25.1	28.0	31.0	34.1	18. 46. 16.30		16.52	17.42	0.90	.....	.....				
	5	Cephei 51 S.P.	W	46.2	57.6	6.3	17.3	28.1	48.0	58.0	8.1	18.5	28.0	18. 51. 37.61		49.11	50.36	1.25	1.16	.....				
	6	ζ Aquilæ	R. W	24.0	26.6	29.2	34.1	36.9	39.5	46.9	49.3	52.0	54.6	19. 0. 39.35		40.05	41.15	1.10		19. 0. 41.15			3.39	
	7	ω Aquilæ	W	42.9	45.3	47.9	52.8	55.4	58.0	5.3	7.9	10.5	13.0	19. 12. 57.94		58.42	59.51	1.09		19. 12. 59.52			3.46	
	8	δ Aquilæ	S	2.5	4.9	7.5	12.5	15.0	17.4	24.8	27.2	29.7	32.2	19. 20. 17.41		17.98	18.90	0.92	0.97	.....				
	9	α Vulpeculæ	S	8.3	11.0	13.8	19.2	22.0	24.8	32.7	35.5	38.0	41.1	19. 24. 24.68		25.01	25.92	0.91		.....				
	10	λ Ursæ Minoris ...	W	18.0	36.1	43.6	9.8	16.1	22.7	40.0	45.1	52.6	59.4	19. 27. 26.65		57.06	59.61	2.55	1.16	.....				
	11	W. B. XIX. 638 ..	W	40.1	42.6	45.1	50.0	52.5	55.1	2.1	4.7	7.4	10.0	19. 27. 55.00		55.66				19. 27. 56.76			3.84	
	12	Groombridge 2899	W	...	14.9	20.2	31.3	36.7	42.2	58.3	3.9	9.4	...	19. 33. 42.22		41.70				19. 33. 42.79			2.78	
	13	Groombridge 2927	W	...	...	...	10.5	13.9	17.1	26.6	...	...	...	19. 41. 17.09		17.21				19. 41. 18.30			3.11	
	14	Piazzi VII. 199 S.P.	W	28.3	32.9	37.5	41.5	54.0	58.1	2.6	10.9	15.1	19.4	19. 42. 53.97		55.21				7. 42. 56.30			2.19	
	15	Piazzi VII. 236 S.P.	W	...	15.6	21.5	27.3	44.5	...	...	...	...	...	19. 50. 44.62		46.28				7. 50. 47.37			2.28	
	16	Piazzi VII. 271 S.P.	W	...	...	...	19.5	32.1	36.9	41.1	...	...	...	19. 56. 32.31		33.59				7. 56. 34.68			2.15	
	17	Piazzi VII. 269 S.P.	W	...	...	...	...	...	...	58.6	3.2	8.0	36.0	19. 56. 39.92		41.28				7. 56. 42.37			2.18	
	18	θ Aquilæ	W	43.5	46.1	48.5	53.5	56.0	58.4	5.7	8.2	10.8	13.3	20. 5. 58.44		59.06	0.10	1.04		20. 6. 0.15			3.82	
	19	Radcliffe 4643 ...	W	11.0	14.1	17.6	...	...	...	...	44.2	48.0	51.4	20. 8. 31.09		31.16				20. 8. 32.25			3.14	
	20	κ Cephei	W	...	...	...	3.8	15.7	27.1	0.6	...	...	...	20. 12. 27.04		25.20				20. 12. 26.29			2.93	
	21	* N.P.D. 12° 37' ..	W	...	...	...	5.7	17.4	29.1	2.5	...	...	...	20. 12. 28.92		27.08				20. 12. 28.17			2.93	
	22	Lalande 39332 ...	W	50.7	53.1	55.6	0.6	3.0	5.6	12.8	15.3	18.0	20.2	20. 22. 5.53		6.17				20. 22. 7.26			3.91	
	23	Groomb. 1418 S.P.	W	37.0	46.1	53.0	59.1	6.0	13.5	19.9	26.2	51.1	...	20. 24. 7.91		15.17				8. 24. 16.26			1.57	
	24	Piazzi VIII. 137 S.P.	W	45.2	51.8	58.0	4.5	23.2	29.9	36.2	48.7	55.0	1.2	20. 39. 23.27		25.05				8. 39. 26.14			2.04	
	25	Lalande F. 3613 ..	W	...	...	...	21.8	38.9	56.0	46.4	...	...	...	20. 41. 56.14		53.03				20. 41. 54.12			3.44	
	26	Lalande F. 1355 S.P.	W	...	...	...	...	...	...	11.9	29.2	46.2	11.0	20. 42. 3.72		7.92				8. 42. 9.01			1.67	
	27	32 Vulpeculæ	H	...	55.9	58.7	...	...	...	9.9	...	20.9	23.8	...		10.17	11.02	0.85	0.97	.....				
	28	76 Draconis	W	...	...	...	...	...	...	6.5	24.3	42.9	1.4	20. 50. 12.89		9.55			1.16	20. 50. 10.64			3.62	
	29	ρ Ursæ Maj. S.P.	W	...	...	...	...	...	...	35.5	42.1	48.8	28.4	20. 53. 9.05		10.89				8. 53. 11.98			1.96	
	30	Oeltz. Arg. (N.) 9540 S.P.	W	...	...	18.5	23.3	37.9	42.9	48.0	57.5	...	...	20. 58. 37.92		39.33				8. 58. 40.42			1.95	
	31	θ Capricorni	H	53.0	55.7	58.1	3.5	6.0	8.7	16.2	18.9	21.6	24.1	21. 0. 8.62		9.41	10.35	0.94	0.97	.....				
	32	Lalande 40831 ...	W	...	...	...	...	...	...	...	8.1	24.1	40.4	21. 0. 51.92		52.80			1.16	21. 0. 53.89			4.50	
	33	Lalande 40842 ...	W	...	...	...	...	...	...	12.0	14.7	17.5	20.1	21. 1. 4.03		4.91				21. 1. 6.00			4.47	
	34	Groombridge 3413	W	41.4	...	49.6	...	...	...	...	22.8	...	31.1	21. 9. 6.26		6.09				21. 9. 7.18			3.22	
	35	Lalande F. 1473 S.P.	W	...	...	...	24.0	53.3	3.5	13.4	...	...	...	21. 16. 53.34		55.94				9. 16. 57.03			1.66	
	36	6 Cephei	W	...	...	...	...	...	...	32.0	38.1	44.0	50.0	21. 17. 15.46		14.89				21. 17. 15.98			3.25	
	37	W. B. XXI. 439 ..	W	0.6	3.1	5.5	10.6	13.1	15.9	...	...	...	...	21. 21. 15.67		16.16				21. 21. 17.25			3.69	
	38	B.D. + 47° No. 3451	W	...	...	...	54.7	58.1	2.1	12.9	...	...	...	21. 28. 2.63		1.99				21. 28. 3.08			3.29	
	39	Groomb. 1572 S.P.	W	...	...	...	42.0	54.8	59.1	3.5	...	...	...	21. 35. 54.74		55.98				9. 35. 57.07			1.83	
	40	Lalande F. 3912 ..	W	...	...	...	4.1	19.3	35.1	20.2	...	...	...	21. 37. 35.00		32.28				21. 37. 33.37			4.07	
	41	Bradley 2833	W	9.9	12.1	...	19.7	22.2	24.6	32.1	...	37.1	39.8	21. 39. 24.73		25.44				21. 39. 26.53			4.04	
	42	c ¹ Capricorni	W	14.9	17.4	...	25.0	27.3	29.9	37.7	...	42.2	44.9	21. 39. 29.95		30.66				21. 39. 31.75			4.04	
	43	Groomb. 1602 S.P.	W	...	...	36.5	...	53.7	58.3	2.8	11.3	...	...	21. 57. 53.80		55.09				9. 57. 56.18			1.77	
	44	Groomb. 1604 S.P.	W	...	...	...	37.4	48.9	...	57.2	...	9.1	13.1	21. 58. 49.08		50.26				9. 58. 51.35			1.77	
	45	Groomb. 1612 S.P.	W	...	...	57.2	3.0	19.7	25.5	31.4	42.5	...	...	22. 2. 19.77		21.39				10. 2. 22.48			1.69	
	46	Piazzi X. 26 S.P.	W	...	...	38.2	45.2	6.0	13.1	20.1	34.0	...	...	22. 13. 5.96		7.89				10. 13. 8.98			1.54	
	47	ρ Aquarii	W	...	...	...	40.8	43.5	45.8	53.1	55.8	58.0	0.8	22. 14. 45.81		46.50				22. 14. 47.59			3.96	
	48	Groombridge 3774	W	50.9	55.0	59.1	7.3	11.6	15.7	28.0	32.1	36.3	40.7	22. 22. 15.73		15.56				22. 22. 16.65			3.39	
	49	38 Pegasi	W	...	...	6.7	12.5	15.4	18.2	26.9	30.0	...	...	22. 25. 18.34		18.57				22. 25. 19.66			3.44	
	50	Groombridge 3801	W	...	...	...	...	...	...	43.6	46.8	50.0	53.2	22. 27. 34.13		34.26				22. 27. 35.35			3.40	
	51	Piazzi XXII. 159	W	...	...	...	39.3	45.6	48.8	52.0	1.3	4.7	...	22. 30. 52.01		52.14				22. 30. 53.22			3.40	
	52	κ Aquarii	W	9.3	11.9	14.3	19.2	21.9	24.1	31.8	34.1	36.5	39.1	22. 32. 24.26		24.91				22. 32. 25.99			3.85	
	53	41 Ursæ Maj. S.P.	W	22.6	27.5	32.1	36.8	50.4	55.4	0.0	9.1	13.9	18.4	22. 39. 50.55		51.90				10. 39. 52.98			1.66	
	54	τ ¹ Aquarii	W	58.1	0.8	3.4	8.3	10.9	13.5	21.1	23.9	26.1	28.9	22. 42. 13.54		14.31				22. 42. 15.39			4.01	

5. Observed over wire T with the transit-micrometer set to readings 36^r.600, 36^r.400, 36^r.200, 36^r.000, 35^r.800, 35^r.400, 35^r.200, 35^r.000, 34^r.800, 34^r.600.10. Observed over wire U with the transit-micrometer set to readings 33^r.878, 34^r.013, 34^r.060, 34^r.248, 34^r.300, 34^r.348, 34^r.463, 34^r.512, 34^r.550, 34^r.596.

17, 29. Observed over wires Q, P, O and N.

23. Observed over wire T with the transit-micrometer set to readings 36^r.600, 36^r.300, 36^r.100, 35^r.900, 35^r.700, 35^r.400, 35^r.200, 35^r.000, 34^r.200.

26. Observed over wires Q, P, O and M.

32. Observed over wires X, Y and Z.

44. Observed in dark field with wires illuminated.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
1893 AUG.	Aug. 11	1	44 Ursæ Maj. S.P.	W	...	...	58.8	3.1	16.0	...	24.5	33.2	...	...	22.47.15.90	+ 1.18	17.17			1.16	10.47.18.25	- 1.67
	2	Piazzi XXII. 241	W	...	...	...	...	...	...	...	7.5	9.9	12.5	27.9	22.47.57.16	(- 2.25)	57.59			[- 0.08]	22.47.58.67	- 3.55
	3	8 Piscis Australis	W	55.8	59.0	2.1	7.8	10.7	13.6	22.1	25.4	28.6	31.8	22.50.13.74	[+ 11.96]	14.75					22.50.15.83	- 4.49
	4	81 Aquarii	W	46.5	48.9	51.4	56.2	58.9	1.3	8.6	11.3	13.8	16.2	22.56.1.35		2.03					22.56.3.11	- 3.83
	5	Groombridge 3960	W	...	...	...	...	...	...	...	42.9	48.3	53.8	59.4	22.57.26.98		26.48				22.57.27.56	- 3.55
	6	h ¹ Aquarii	W	31.4	34.0	36.5	41.4	...	...	...	...	...	...	16.2	22.59.46.43		47.12				22.59.48.20	- 3.84
	7	h ² Aquarii	W	...	...	46.0	50.9	53.4	55.9	3.3	...	8.2	10.9	22.59.55.91		56.60				22.59.57.68	- 3.83	
	8	59 Pegasi	W	16.1	18.5	21.1	26.0	28.5	31.1	38.3	40.9	43.5	46.0	23.6.31.04		31.56				23.6.32.64	- 3.59	
	9	Radcliffe 2647 S.P.	W	...	...	47.6	51.7	4.0	...	12.0	20.2	24.7	28.7	23.10.3.86		5.09				11.10.6.17	- 1.66	
	10	Groombridge 1755 S.P.	W	...	43.6	48.0	52.0	4.2	8.2	12.6	20.9	25.1	...	23.10.4.25		5.48				11.10.6.56	- 1.66	
	11	Groombridge 4040	W	...	...	37.8	54.8	...	...	11.9	37.0	45.5	...	23.14.11.87		10.65				23.14.11.73	- 4.02	
	12	Groombridge 4045	W	...	...	...	...	...	...	...	37.4	43.0	13.1	43.5	23.16.12.76		12.36				23.16.13.44	- 3.55
	13	κ Piscium	W	23.1	25.6	28.1	32.9	35.4	38.0	45.2	47.8	50.2	52.8	23.21.37.95		38.54	39.66	1.12		23.21.39.62	- 3.64	
	14	Groombridge 4075	W	...	...	38.8	45.4	48.9	52.2	2.3	5.9	...	...	23.24.52.32		53.37				23.24.53.45	- 3.41	
	15	14 Piscium	W	35.1	37.7	40.1	...	...	50.1	...	0.0	2.3	4.9	23.28.50.05		50.67				23.28.51.75	- 3.65	
	16	Groombridge 4099	W	53.8	0.0	6.4	19.1	25.5	31.7	50.1	56.5	2.8	9.3	23.30.31.61		30.91				23.30.31.99	- 3.75	
	17	ω ¹ Aquarii	W	10.0	12.5	15.1	20.1	22.8	25.2	32.9	35.4	38.0	40.7	23.34.25.31		26.08				23.34.27.16	- 3.81	
	18	Lalande F. 1933 S.P.	W	...	...	...	...	...	...	21.1	0.5	20.9	40.1	23.37.40.60		45.41				11.37.46.49	+ 0.92	
	19	6 Cassiopeiæ	W	17.5	22.9	28.0	38.5	43.8	49.1	...	...	...	...	23.43.48.92		48.47				23.43.49.55	- 3.61	
	20	21 Piscium	W	...	...	...	...	7.2	9.9	17.0	19.4	22.0	24.5	23.44.9.72		10.32				23.44.11.40	- 3.56	
	21	γ Pegasi	W	39.1	41.6	44.2	...	...	54.6	...	4.8	7.2	9.8	0.7.54.50		54.94	56.14	1.20	1.08	0.7.56.02	- 3.39	
Aug. 12	22	⊙ 1 L.	B	7.1	9.6	...	17.4	19.7	22.5	30.0	...	35.4	38.0	9.29.22.50	(- 2.71)	28.47			1.10 0.00	9.30.29.57		
	23	⊙ 2 L.	B	18.2	20.7	23.3	28.3	31.0	33.6	41.1	43.9	46.5	49.1	9.31.33.61		18.28	19.42	1.14		15.30.19.38	- 2.39	
	24	α Coronæ	B	44.8	1.3	4.1	6.9	...	...	...	...	...	...	15.30.18.01		35.67				16.22.36.77	- 1.90	
	25	η Draconis	B	4.8	10.0	15.2	25.7	31.1	36.2	51.7	56.9	2.0	7.4	16.22.36.18		46.22				16.30.47.32	- 2.38	
	26	σ Herculis	B	26.1	29.4	32.7	39.5	42.8	46.1	56.1	59.6	2.9	6.3	16.30.46.20		23.38	24.45	1.07		16.37.24.48	- 2.55	
	27	ζ Herculis	B	...	...	...	...	...	...	31.8	34.7	37.6	40.6	16.37.23.18		21.21				16.39.22.31	- 2.48	
	28	η Herculis	B	23.7	42.9	...	...	...	...	33.8	37.0	...	...	16.39.21.12		49.25	49.30	0.05		.....		
	29	δ Ursæ Minoris	B	22.1	29.5	48.6	58.5	19.5	1.6	29.0	23.6	30.6	38.0	18.5.58.19		58.07	59.15	1.08		18.15.59.17	- 3.52	
	30	γ Serpentis	B	...	...	...	52.4	55.0	57.5	4.8	7.2	9.9	12.2	18.15.57.46		56.90				18.22.58.00	- 2.14	
	31	χ Draconis	B	8.4	16.5	25.1	41.5	49.6	58.1	22.8	31.2	39.2	48.1	18.22.58.17		26.81	27.92	1.11		18.33.27.91	- 2.91	
	32	α Lyræ	B	29.8	...	...	...	...	26.8	36.0	39.2	42.4	45.8	18.33.26.72		16.34	17.41	1.07		18.46.17.44	- 3.02	
	33	β ¹ Lyræ	B	...	...	...	10.1	13.2	16.1	24.9	27.9	30.9	33.9	18.46.16.16		49.25	50.69	1.44		.....		
	34	Cephei 51 S.P.	B	38.5	49.4	56.1	17.7	29.3	55.2	28.0	35.2	41.8	8.5	18.51.37.27		40.10	41.14	1.04		19.0.41.20	- 3.38	
	35	ζ Aquilæ	B	24.4	26.9	29.5	34.6	37.1	39.8	47.1	49.8	52.2	54.9	19.0.39.67		40.12	41.14	1.02		.....		
	36	ζ Aquilæ... (E&E)	B	32.5	47.5	2.8	18.0	33.2	48.4	3.9	...	...	...	19.0.39.69		58.49	59.51	1.02		19.12.59.59	- 3.46	
	37	ω Aquilæ	R.	42.6	45.1	47.6	52.7	55.3	57.9	5.2	7.7	10.1	12.9	19.12.57.75		2.98				19.20.4.08	- 3.50	
	38	b Aquilæ	R.	16.9	32.0	47.1	49.6	52.1	...	...	...	...	...	19.20.2.24		3.22				19.20.4.32	- 3.50	
	39	b Aquilæ	B	...	...	...	...	...	...	15.3	17.9	32.9	48.1	...	19.20.2.76		33.70				19.26.34.80	- 3.23
	40	β Cygni	R.	42.8	59.5	16.3	19.1	22.0	...	...	...	...	...	19.26.33.06		35.90				19.26.37.00	- 3.23	
	41	Bradley 2474... R.	B	45.0	1.8	18.5	21.4	24.0	...	...	...	...	...	19.26.35.26		10.53				19.33.11.63	- 2.93	
	42	Bradley 2496... B	B	...	...	...	...	...	...	22.0	25.9	29.8	33.7	...	19.33.10.66		40.99				19.33.42.09	- 2.94
	43	θ Cygni	B	...	...	...	...	...	...	52.5	56.4	0.2	4.1	...	19.33.41.12		15.93				19.42.17.03	- 3.10
	44	B.D.+39° No. 3902	B	56.5	59.7	3.0	9.3	12.5	15.9	25.4	28.5	31.9	35.3	19.42.15.85		52.33				19.44.53.43	- 3.11	
	45	W.B.(2) XIX. 1417	B	33.0	36.1	39.5	45.9	48.9	52.1	1.9	4.9	8.1	11.6	19.44.52.25		9.18				19.45.10.28	- 3.11	
	46	Groombridge 2942	B	...	...	...	...	...	...	18.5	21.9	25.1	28.3	...	19.45.9.10		16.65				19.50.17.75	- 3.07
	47	Groombridge 2970	B	56.0	59.4	2.9	9.5	13.1	16.8	26.9	30.1	33.8	37.4	19.50.16.65		51.48				7.51.52.58	- 2.40	
	48	Lalande F. 1197 S.P.	B	...	...	...	...	49.1	57.7	6.1	22.6	31.5	39.8	19.51.49.16		36.09				20.2.37.19	- 3.45	
	49	Cephei 24	B	40.3	52.5	3.0	13.9	25.9	38.5	2.1	25.1	...	...	20.3.2.66		28.42				20.3.29.52	- 2.90	
	50	Groombridge 3051 (N. Star)	B	...	...	6.9	17.9	23.2	29.1	45.4	50.9	...	...	20.3.29.01		40.48				20.10.41.58	- 3.22	
	51	δ ³ Cygni	B	22.0	24.9	28.1	34.1	37.2	40.3	49.5	52.4	55.6	58.8	20.10.40.34		48.51				20.10.49.61	- 3.22	
	52	Piazzi XX. 61	B	30.0	32.9	36.1	42.1	45.4	48.3	57.5	0.4	3.7	6.8	20.10.48.37								

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 36, — 38^s.38.

2. Observed over wires V, W, X and Y.

12, 39. Observed over wires W, X, Y and Z.

28. Observed over wires M, N, V and W.

29. Observed over wire T with the transit-micrometer set to readings 31^s.876, 32^s.058, 32^s.510, 32^s.739, 33^s.236, 35^s.685, 37^s.771 39^s.060, 39^s.230, 39^s.424.

32. Observed over wires M, T, U, V, W and X.

34. Observed over wire T with the transit-micrometer set to readings 37^s.930, 37^s.727, 37^s.592, 37^s.159, 36^s.932, 35^s.258, 34^s.588, 34^s.465, 34^s.340, 33^s.810.

38, 40, 41. Observed over wires M, N, O, P and Q.

49. Observed over wire T with the transit-micrometer set to readings 34^s.400, 34^s.500, 34^s.600, 34^s.700, 34^s.800, 36^s.900, 37^s.100, 37^s.800.

6. Observed over wires O, P, Q, R and Y.

24, 27, 28, 29, 30, 32, 33, 34, 42, 48. Cloudy.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow as of Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.		
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].								
																							#	#
Aug. 12	1	Bradley 2605.....	B	...	...	...	...	...	10.0	18.2	21.1	23.9	26.8	20. 12. 10.04	+ 1.18	10.30			1.10	20. 12. 11.40	- 3.34			
	2	Groombridge 3130	B	23.4	26.8	30.3	37.2	40.6	44.2	54.4	58.0	1.6	5.2	20. 14. 44.22	(- 2.71)	44.20			[0.00]	20. 14. 45.30	- 3.13			
	3	Piazzi XX. 349...	B	20.1	24.1	28.9	37.1	41.4	46.0	...	...	...	...	20. 44. 45.94	+ 11.96	45.67				20. 44. 46.77	- 3.13			
	4	B.D.+55° No. 2473	B	0.0	4.1	9.0	...	...	...	...	43.4	47.7	52.0	20. 45. 26.07		25.80				20. 45. 26.90	- 3.13			
	5	Lalande 40482 ...	B	35.0	38.1	41.9	48.8	52.1	55.8	6.0	9.3	12.9	16.5	20. 49. 55.69		55.67				20. 49. 56.77	- 3.23			
	6	Groombridge 3354	B	17.4	23.3	29.2	40.9	46.7	52.9	10.3	16.1	22.1	28.2	20. 55. 52.80		52.12				20. 53. 53.22	- 3.14			
	7	Groomb. 1500 S.P.	B	...	...	...	33.8	45.1	48.9	52.9	...	...	...	20. 55. 45.10		46.26				8. 55. 47.36	- 1.93			
	8	Lalande 40831 ...	B	...	...	...	...	...	52.0	0.0	2.6	5.6	8.1	21. 0. 52.01		52.88				21. 0. 53.98	- 4.48			
	9	Lalande 40842 ...	B	...	...	...	...	...	...	12.0	14.7	17.5	20.1	21. 1. 4.03		4.90				21. 1. 6.00	- 4.48			
	10	f ² Cygni.....	B	...	...	...	...	...	59.6	3.3	14.1	17.9	21.5	21. 3. 3.35		3.29				21. 3. 4.39	- 3.24			
	11	ζ Cygni.....	B	15.5	18.3	21.3	26.9	29.8	32.7	40.9	44.0	46.9	49.8	21. 8. 32.65		32.88	33.98	1.10		21. 8. 33.98	- 3.41			
	12	ζ Cygni ....(E&E)	B	19.7	36.8	54.0	11.1	28.2	45.3	2.4	...	...	...	21. 8. 32.69		32.92	33.98	1.06		.....				
	13	Pallas.....	B	32.2	34.9	37.5	42.4	45.0	47.6	54.9	57.5	0.0	2.6	21. 16. 47.50		47.96				21. 16. 49.06				
	14	W. B. XXI. 396...	B	...	...	...	...	...	...	29.6	32.0	34.4	37.1	21. 19. 22.07		22.54				21. 19. 23.64	- 3.69			
	15	W. B. XXI. 439...	B	0.7	3.1	5.9	10.8	13.2	15.9	23.1	25.6	28.1	30.8	21. 21. 15.76		16.23				21. 21. 17.33	- 3.69			
	16	Piazzi XXI. 148...	B	11.6	14.2	17.1	22.6	25.4	28.1	36.1	38.9	41.7	44.6	21. 24. 28.07		28.96				21. 24. 30.06	- 4.53			
	17	B.D.+47° No. 3451	B	40.0	43.7	47.5	54.6	58.4	2.2	13.1	16.9	20.5	24.4	21. 28. 2.19		2.11				21. 28. 3.21	- 3.29			
	18	Lalande 42024 ...	B	12.1	15.8	19.6	26.8	30.5	34.2	45.3	49.0	52.6	56.5	21. 28. 34.30		34.22				21. 28. 35.32	- 3.30			
	19	Oeltz. Arg. (S.) 21562	B	...	...	...	34.5	37.1	39.9	47.9	50.4	53.1	56.0	21. 35. 39.89		40.73				21. 35. 41.83	- 4.40			
	20	45 Capricorni ...	B	7.1	9.6	12.2	17.5	20.0	22.7	...	...	...	...	21. 38. 22.55		23.30				21. 38. 24.40	- 4.19			
	21	Bradley 2833.....	B	...	...	...	19.9	22.1	24.8	32.1	...	...	...	21. 39. 24.78		25.47				21. 39. 26.57	- 4.05			
	22	c ¹ Capricorni.....	B	...	...	...	...	27.3	30.0	37.3	39.9	42.2	44.8	21. 39. 29.88		30.57				21. 39. 31.67	- 4.05			
	23	16 Pegasi	B	5.4	8.0	10.9	16.2	19.0	21.9	30.0	32.6	35.5	38.1	21. 48. 21.80		22.09	23.21	1.12		21. 48. 23.19	- 3.49			
	24	79 Draconis ...R.	B	...	53.9	2.4	19.5	28.0	...	...	...	...	...	21. 51. 36.68		36.53				21. 51. 37.63	- 3.61			
	25	79 Draconis	B	...	...	...	...	...	...	3.1	11.9	20.5	29.4	21. 51. 38.01		36.68				21. 51. 37.78	- 3.61			
	26	16 Cephei	B	...	6.9	15.1	32.0	40.0	...	...	...	...	...	21. 57. 48.49		48.36				21. 57. 49.46	- 3.61			
	27	16 Cephei	B	...	...	...	...	...	...	14.1	22.6	30.9	39.8	21. 57. 49.73		48.46				21. 57. 49.56	- 3.61			
	28	15 Cephei	B	4.1	8.9	14.0	23.6	28.2	33.3	...	...	...	...	22. 0. 33.22		32.80				22. 0. 32.90	- 3.38			
	29	Piazzi XXI. 401..	B	...	...	...	...	...	52.0	6.5	11.2	16.1	21.2	22. 0. 52.06		51.64				22. 0. 52.74	- 3.38			
	30	Oeltz. Arg. (N.) 23355	B	...	...	...	...	...	56.1	10.3	15.3	20.2	...	22. 0. 56.10		55.68				22. 0. 56.78	- 3.38			
	31	Oeltz. Arg. (N.) 23360	B	37.1	41.7	46.7	...	...	...	...	25.3	30.1	35.2	22. 1. 6.08		5.66				22. 1. 6.76	- 3.38			
	32	Groomb. 1622 S.P.	B	41.7	45.6	49.6	53.6	5.2	9.1	13.1	20.9	24.9	29.0	22. 7. 5.21		6.38				10. 7. 7.48	- 1.76			
	33	Lalande 19950 S.P.	B	...	...	...	...	...	18.9	23.1	31.5	35.9	40.0	22. 12. 14.59		15.85				10. 12. 16.95	- 1.75			
	34	Lalande 19985 S.P.	B	6.7	11.1	15.4	19.8	32.1	36.3	40.9	49.1	53.4	57.7	22. 13. 32.19		33.45				10. 13. 34.55	- 1.74			
	35	Groomb. 1646 S.P.	B	...	...	23.5	27.0	38.1	...	45.9	...	...	...	22. 21. 38.27		39.40				10. 21. 40.50	- 1.75			
	36	Groomb. 1647 S.P.	B	...	...	...	...	...	42.0	...	53.5	57.3	1.1	22. 21. 38.24		39.37				10. 21. 40.47	- 1.74			
	37	B.D.+0° No. 4889	B	45.4	47.6	50.2	55.1	57.8	0.0	7.6	10.0	12.5	15.1	22. 27. 0.17		0.75				22. 27. 1.85	- 3.79			
	38	Lalande 44036 ...	B	...	...	...	...	...	24.5	31.9	34.2	36.7	39.2	22. 27. 24.46		25.03				22. 27. 26.13	- 3.79			
	39	Groomb. 1668 S.P.	B	...	...	...	...	37.9	42.1	46.6	55.0	59.1	3.3	22. 32. 37.97		39.23				10. 32. 40.33	- 1.71			
	40	Groomb. 1674 S.P.	B	14.5	18.9	23.0	27.3	39.8	44.1	48.3	56.6	0.9	5.2	22. 34. 39.80		41.05				10. 34. 42.15	- 1.70			
	41	ζ Pegasi.....	B	3.5	6.0	8.5	13.5	16.0	18.5	26.0	28.4	31.0	33.5	22. 36. 18.53		19.00	20.08	1.08		22. 36. 20.10	- 3.63			
	42	Groomb. 1680 S.P.	B	18.7	22.5	26.2	30.1	41.6	45.1	48.9	56.7	0.1	4.0	22. 38. 41.33		42.45				10. 38. 43.55	- 1.72			
	43	γ ¹ Aquarii	B	58.1	0.8	3.2	8.4	10.9	13.5	20.9	23.8	26.1	28.9	22. 42. 13.50		14.25				22. 42. 15.35	- 4.03			
	44	* N.P.D. 104° 38'	B	...	...	...	10.2	12.6	15.4	22.5	...	...	...	22. 42. 15.23		15.98				22. 42. 17.08	- 4.03			
	45	Groomb. 1698 S.P.	B	...	...	...	47.0	58.3	2.1	6.2	...	...	...	22. 45. 58.32		59.48				10. 46. 0.58	- 1.70			
	46	B.D.+24° No. 4678	B	21.8	24.5	27.2	32.6	35.3	38.0	46.1	48.8	51.6	54.4	22. 47. 38.07		38.37				22. 47. 39.47	- 3.49			
	47	51 Pegasi.....	B	7.5	10.0	12.8	18.0	20.6	23.4	31.1	33.8	36.3	39.1	22. 53. 23.30		23.65				22. 53. 24.75	- 3.53			
	48	W. B. (2) XXII. 1175	B	49.1	51.6	54.3	59.6	2.1	4.9	12.7	15.2	17.9	20.6	22. 53. 4.84		5.19				22. 53. 6.29	- 3.52			
	49	Carrington g S.P.	B	37.6	47.1	53.6	5.5	14.6	...	...	...	...	...	22. 56. 55.68		43.20				10. 57. 44.30	+ 28.60			
	50	Groomb. 1739 S.P.	B	51.6	55.9	59.9	4.0	15.9	19.8	24.0	32.0	35.6	39.9	23. 3. 15.80		16.99				11. 3. 18.09	- 1.68			
	51	Radcliffe 5996 ...	B	34.9	38.0	41.5	47.6	50.7	54.2	3.5	...	...	...	23. 7. 54.09		54.17				23. 7. 55.27	- 3.42			
	52	Groombridge 4012	B	...	56.8	0.1	6.1	9.5	12.9	22.4	25.5	28.7	...	23. 8. 12.81		12.89				23. 8. 13.99	- 3.42			
	53	Groomb. 1766 S.P.	B	...	...	...	54.0	5.6	10.1	14.1	...	...	...	23. 15. 5.86		7.06				11. 15. 8.16	- 1.66			
	54	Groomb. 1780 S.P.	B	14.0	18.7	23.3	28.0	41.7	46.0	50.5	59.5	4.1	9.0	23. 21. 41.41		42.76				11. 21. 43.86	- 1.60			

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 12, — 38°.41.

3, 4, 7, 13, 37, 46, 49. Observed in dark field with wires illuminated. 13. Cloudy.
 49. Observed over wire T with the transit-micrometer set to readings 35° 7'00, 35° 6'50, 35° 6'00, 35° 5'50, 35° 5'00.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).							
				s	s	s	s	s	s	s	s	s	s		h	m							s	''
1898 Aug. 12	1	Groomb. 1788 S.P.	B	58.7	3.3	7.9	11.9	24.5	28.9	33.1	41.9	46.0	50.4	23. 24. 24.60	+ 1.18	25.87			1.10	11. 24. 26.97	- 1.63	
	2	Groomb. 1799 S.P.	B	...	...	45.4	49.7	1.4	5.5	9.8	17.9	...	...	23. 29. 1.54	(- 2.71)	2.74		[	0.00	11. 29. 3.84	- 1.65	
	3	Groomb. 1801 S.P.	B	...	...	...	...	...	41.5	47.6	58.6	4.6	10.4	23. 29. 35.53	[+ 11.96]	37.20				11. 29. 38.30	- 1.42	
	4	Groomb. 1809 S.P.	B	22.1	28.0	34.0	40.0	57.1	3.0	8.9	20.2	26.3	32.0	23. 32. 57.07		58.74				11. 32. 59.84	- 1.41	
	5	ι Piscium	B	22.9	25.4	28.0	32.9	35.3	37.9	45.1	47.7	50.2	52.9	23. 34. 37.87		38.39	39.57	1.18		23. 34. 39.49	- 3.59	
	6	Piazzi XXIII. 160	B	47.7	51.1	54.7	1.6	5.0	8.4	18.5	22.0	25.6	29.1	23. 37. 8.42		8.42				23. 37. 9.52	- 3.43	
	7	B.D.+28° No. 4643	B	43.0	45.9	48.8	54.2	57.1	0.0	8.2	10.9	14.0	16.8	23. 42. 59.93		0.18				23. 43. 1.28	- 3.42	
	8	21 Piscium	B	...	...	...	4.8	7.3	9.8	17.1	19.6	22.1	24.7	23. 44. 9.82		10.40				23. 44. 11.50	- 3.59	
	9	* N.P.D. 58° 17'	B	...	...	...	55.8	58.7	1.7	10.2	13.1	16.0	19.1	23. 47. 1.64		1.84				23. 47. 2.94	- 3.41	
	10	B.F. 3276	B	5.5	8.0	10.4	15.4	17.9	20.4	27.8	30.2	32.9	35.4	23. 50. 20.43		20.93				23. 50. 22.03	- 3.50	
	11	Groomb. 1843 S.P.	B	...	...	...	...	54.2	59.9	4.9	15.5	20.7	26.0	23. 52. 54.35		55.89				11. 52. 56.99	- 1.47	
	12	Groomb. 1844 S.P.	B	...	...	30.6	35.9	51.5	56.9	2.0	12.2	...	...	23. 53. 51.42		52.96				11. 53. 54.06	- 1.47	
	13	Groomb. 1849 S.P.	B	...	...	18.1	23.7	39.1	44.4	50.0	0.2	...	...	23. 58. 39.15		40.69				11. 58. 41.79	- 1.46	
	14	Groomb. 1851 S.P.	B	...	...	...	...	45.6	57.1	8.3	30.9	42.1	53.3	23. 59. 45.63		48.64				11. 59. 49.74	- 0.40	
	15	α Andromedæ ...	B	45.9	48.5	51.5	57.1	59.9	2.6	10.9	13.8	16.5	19.5	0. 3. 2.66		2.91	4.02	1.11		0. 3. 4.01	- 3.40	
	16	γ Pegasi.....	B	39.3	41.9	44.2	49.5	52.0	54.5	2.1	4.7	7.2	9.9	0. 7. 54.57		54.99	56.16	1.17		0. 7. 56.09	- 3.41	
	17	Procyon.....	R	36.7	39.1	41.6	46.3	49.0	51.6	59.1	1.5	4.0	6.3	7. 33. 51.56	(- 3.10)	52.06	53.03	0.97	[- 0.01]	7. 33. 53.02	- 1.48	
Aug. 13	18	⊙ 1 L.	R	...	...	...	...	...	16.2	18.9	21.5	24.1	9. 33. 8.74									
	19	⊙ 2 L.	R	4.3	6.9	9.4	14.5	17.1	19.8	27.2	29.7	32.3	35.1	9. 35. 19.67		14.61					9. 34. 15.57	
	20	Venus 1 L.	R	28.1	30.4	33.1	38.1	40.5	43.2	...	...	...	...	10. 13. 43.20		43.62					10. 13. 44.96	
	21	Spica	R	28.1	30.3	33.1	38.0	40.4	43.1	...	...	...	...	13. 19. 43.06		43.75	44.68	0.93			13. 19. 44.70	- 1.91
	22	α Ophiuchi	R	52.8	55.4	58.0	3.0	5.5	8.1	...	...	...	...	17. 30. 8.08		8.50	9.42	0.92			17. 30. 9.45	- 3.07
	23	β Ophiuchi	R	6.9	9.4	11.9	16.9	19.3	21.8	29.1	31.7	34.1	36.6	17. 38. 21.81		22.33	23.27	0.94			17. 38. 23.28	- 3.23
	24	δ Ursæ Minoris...	R	40.0	56.1	11.6	22.9	34.1	48.0	2.7	13.8	24.9	35.6	18. 5. 58.13		48.83	48.98	0.15			.....	
	25	γ Serpentis	R	42.8	45.2	48.0	52.8	55.2	57.8	4.9	7.5	10.0	12.6	18. 15. 57.72		58.32	59.14	0.82			18. 15. 59.27	- 3.51
	26	α Lyrae	R	8.0	10.9	14.1	20.5	23.7	26.9	36.1	39.5	42.6	45.9	18. 33. 26.87		26.93	27.90	0.97			18. 33. 27.88	- 2.89
	27	Cephei 51 S.P. ...	R	44.1	56.0	5.9	14.5	26.9	36.5	46.1	52.7	4.4	13.2	18. 51. 37.07		49.45	51.02	1.57			.....	
	28	ζ Aquilæ.....R.	R	24.1	26.7	29.2	34.1	36.9	39.2	46.9	49.5	52.0	54.5	19. 0. 39.35		40.10	41.13	1.03			19. 0. 41.05	- 3.37
	29	ω Aquilæ	R	43.0	45.6	48.0	53.1	55.6	58.2	5.5	8.1	10.6	13.2	19. 12. 58.13		58.57	59.50	0.93			19. 12. 59.52	- 3.45
	30	λ Ursæ Minoris...	R	37.1	46.7	54.9	0.9	9.9	18.4	25.4	32.0	37.1	46.9	19. 27. 29.54		57.41	58.13	0.72			.....	
	31	Groomb. 1350 S.P.	R	30.5	37.5	45.2	...	12.9	...	...	40.9	48.0	54.9	19. 36. 12.77		14.80					7. 36. 15.75	- 2.51
	32	Piazzi VII. 199 S.P.	R	28.6	33.1	37.4	41.6	54.1	58.4	2.5	11.0	15.3	19.5	19. 42. 54.09		55.36					7. 42. 56.31	- 2.25
	33	Groomb. 1119 S.P.	R	2.6	13.9	25.1	33.4	42.0	50.0	58.1	5.6	13.3	22.2	19. 53. 6.45		38.53					7. 53. 39.48	- 3.02
	34	ε Sagittarii.....	R	...	4.3	7.4	12.9	15.5	18.5	26.8	29.4	32.3	...	19. 56. 18.44		19.37	20.35	0.98			19. 56. 20.32	- 4.59
	35	κ Cephei	R	...	...	...	...	...	...	0.6	12.0	23.6	35.5	20. 12. 27.35		25.27					20. 12. 26.22	- 2.85
	36	B.D.+80° No. 254 S.P.	R	...	...	...	...	...	46.1	0.9	32.2	47.8	2.6	20. 15. 30.67		34.70					8. 15. 35.65	- 2.23
	37	Groomb. 1418 S.P.	R	...	...	...	...	7.8	38.9	10.0	11.6	43.6	14.0	20. 24. 7.85		15.63					8. 24. 16.58	- 1.77
	38	Oeltz. Arg. (N.) 20768 (1st Star)	R	...	...	...	...	...	...	32.9	36.3	40.0	43.7	20. 31. 22.19		22.10					20. 31. 23.05	- 3.16
	39	Lalande F. 1339 S.P.	R	...	...	...	56.9	57.5	18.6	39.1	19.8	...	1.4	20. 40. 57.63		2.92					8. 41. 3.87	- 1.69
	40	Groomb. 1484 S.P.	R	44.6	50.5	55.8	1.5	17.8	24.0	...	...	...	...	20. 50. 18.12		19.76					8. 50. 20.71	- 2.03
	41	Groomb. 1485 S.P.	R	...	...	...	7.7	...	29.6	35.5	45.9	52.0	57.5	20. 50. 23.99		25.63					8. 50. 26.58	- 2.03
	42	Lalande 40831 ...	R	36.0	38.5	41.4	46.7	49.4	52.0	...	...	...	...	21. 0. 52.11		52.98					21. 0. 53.93	- 4.49
	43	Lalande 40842 ...	R	...	...	53.4	58.5	1.3	4.1	12.1	14.8	17.3	20.2	21. 1. 4.05		4.92					21. 1. 5.87	- 4.48
	44	Carrington 3232 ..	R	...	...	...	12.0	43.0	14.6	17.1	48.7	20.9	21. 7. 14.16		7.36						21. 7. 8.31	- 4.60
	45	Pallas	R	46.2	48.8	51.3	56.2	58.9	1.4	8.9	11.3	14.0	16.4	21. 16. 1.38		1.82					21. 16. 2.77	
	46	β Aquarii	R	52.4	54.9	57.5	2.3	4.9	7.5	14.8	17.4	19.8	22.2	21. 26. 7.41		8.05	9.05	1.00			21. 26. 9.00	- 3.99
	47	Lalande 41990 ...	R	38.2	42.0	45.9	53.1	56.6	0.6	...	...	...	...	21. 28. 0.37		0.25					21. 28. 1.20	- 3.30
	48	B.D.+47° No. 3455	R	...	3.6	7.5	14.9	18.3	22.0	...	...	...	...	21. 28. 22.17		22.05					21. 28. 23.00	- 3.30
49	B.D.+48° No. 3411	R	...	...	...	25.2	29.0	32.9	43.8	47.4	51.2	54.9	21. 28. 32.78		32.66					21. 28. 33.61	- 3.30	
50	Bradley 2854	R	1.3	8.8	16.2	31.4	38.9	46.4	8.8	16.2	24.0	31.7	21. 37. 46.48		45.33					21. 37. 46.28	- 3.46	
51	η Cephei	R	42.1	49.3	57.5	12.2	20.0	27.7	49.7	57.1	5.0	12.7	21. 40. 27.44		26.29					21. 40. 27.24	- 3.47	

Correction for passage of Semidiameter, No. 20, + 0.38.

- 18, 19, 20, 21. Cloudy. 22. Faint; cloudy. 22, 45. Observed in dark field with wires illuminated.
24. Observed over wire O with the transit-micrometer set to readings 35° 428, 35° 823, 36° 197, 36° 408, 36° 738, 37° 057, 37° 405, 37° 665, 37° 931, 38° 182.
27. Observed over wire X with the transit-micrometer set to readings 36° 548, 36° 321, 36° 127, 35° 963, 35° 722, 35° 520, 35° 332, 35° 200, 34° 983, 34° 806.
28. Very diffused.
30. Observed over wire R with the transit-micrometer set to readings 35° 518, 35° 579, 35° 651, 35° 682, 35° 757, 35° 815, 35° 866, 35° 906, 35° 951, 36° 024.
33. Observed over wire T with the transit-micrometer set to readings 36° 069, 35° 988, 35° 901, 35° 848, 35° 783, 35° 724, 35° 667, 35° 611, 35° 542, 35° 492.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 GO. AMM.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Error of									
															Collimation.									
															[Azimuth].									
s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s		
Aug. 13	1	α Aquarii	R	14.0	16.4	19.0	23.9	26.3	28.8	36.1	38.6	41.1	43.6	22. 0. 28.82	+ 1.18	29.40	30.35	0.95	0.96	22. 0. 30.35		- 3.86		
	2	24 Cephei	R	4.9	12.5	20.5	36.0	44.2	52.4	15.7	23.9	31.6	39.8	22. 7. 52.27	(- 3.10)	51.02			[- 0.01]	22. 7. 51.97		- 3.66		
	3	56 Aquarii	R	30.0	32.5	35.1	40.1	42.8	45.4	52.9	55.4	58.1	0.7	22. 24. 45.34	[+11.96]	46.08				22. 24. 47.03		- 4.10		
	4	κ Aquarii	R	9.6	12.1	14.5	19.6	22.0	24.5	31.8	34.3	36.8	39.5	22. 32. 24.51		25.13				22. 32. 26.08		- 3.87		
	5	67 Aquarii.....	R	35.6	38.1	40.9	45.7	48.1	50.6	58.1	0.5	3.1	5.7	22. 37. 50.66		51.31				22. 37. 52.26		- 3.91		
	6	μ Pegasi.....	R	44.9	47.6	50.4	55.6	58.5	1.2	9.2	12.0	14.7	17.5	22. 45. 1.20		1.49	2.47	0.98		22. 45. 2.44		- 3.52		
	7	Groombridge3908	R	18.9	22.1	25.4	31.9	35.1	38.2	47.9	51.0	54.2	57.6	22. 47. 38.28		38.32				22. 47. 39.27		- 3.44		
Aug. 14	8	⊙ 1 L.....	CD	38.8	41.3	44.0	49.0	51.4	54.1	1.6	4.2	6.9	9.5	9. 36. 54.12	(- 3.45)	59.87			1.01	9. 38. 0.87				
	9	⊙ 2 L.....	CD	49.6	52.0	54.7	59.8	2.1	4.9	12.5	14.9	17.5	20.1	9. 39. 4.85		22.64	21.59	1.05	[- 0.02]	.....				
	10	Polaris S.P.	CD	49.2	43.2	51.9	28.8	36.8	43.0	51.4	57.1	3.6	11.8	13. 20. 54.68		27.84	28.82	0.98		14. 40. 28.84		- 2.15		
	11	ε Boötis.....	CD	10.9	13.7	16.5	22.0	24.9	27.6	35.9	38.6	41.5	44.3	14. 40. 27.63		18.31	19.38	1.07	1.09†	15. 30. 19.31		- 2.35		
	12	α Coronæ	CD	1.5	4.1	7.0	12.6	15.2	18.1	...	...	...	...	15. 30. 18.09		22.19	23.26	1.07		.....				
	13	β Ophiuchi	B	6.9	9.2	11.8	16.7	19.1	21.7	29.0	31.5	34.0	36.6	17. 38. 21.69		22.20	23.26	1.06		.....				
	14	β Ophiuchi.(E&E)	B	16.3	31.0	46.0	0.9	15.8	30.6	45.6	...	...	...	17. 38. 21.70		24.99	26.08	1.09		.....				
	15	μ Herculis.....	B	8.0	10.8	13.6	19.1	21.9	24.8	33.0	35.9	38.7	41.6	17. 42. 24.78		24.99	26.08	1.09		.....				
	16	μ Herculis.(E&E)	B	13.6	30.5	47.1	4.0	20.8	37.4	54.4	...	...	...	17. 42. 24.78		40.16	41.13	0.97	1.01	19. 0. 41.15		- 3.37		
	17	ζ Aquilæ	CD	24.4	27.0	29.6	34.5	37.1	39.9	47.4	49.9	52.4	55.1	19. 0. 39.77		58.55	59.50	0.95		19. 12. 59.54		- 3.45		
	18	ω Aquilæ	R	42.6	45.1	47.8	52.7	55.2	57.9	5.2	7.8	10.1	12.9	19. 12. 57.77		55.32	57.35	2.03		.....				
	19	λ Ursæ Minoris...	CD	50.0	56.6	14.0	21.4	36.7	44.5	5.1	13.4	30.8	36.9	19. 27. 28.49		44.61				19. 29. 45.60		- 2.81		
	20	B.D.+55°No.2218	CD	18.8	23.1	27.6	36.0	40.5	45.1	58.0	2.1	6.6	11.2	19. 29. 44.97		14.62				7. 32. 15.61		- 2.37		
	21	23 Lynceis S.P. ...	CD	45.6	50.5	54.9	59.6	13.3	18.0	22.7	31.6	36.1	40.8	19. 32. 13.24		30.89				19. 42. 31.88		- 3.18		
	22	χ Cygni.....	CD	12.9	16.0	18.9	24.7	27.8	30.8	39.6	42.5	45.6	48.6	19. 42. 30.78		32.80				19. 42. 33.79		- 3.18		
	23	B.D.+33°No.3589	CD	14.9	18.0	20.9	26.7	29.8	32.8	41.4	44.2	47.4	50.4	19. 42. 32.69		51.65				7. 51. 52.64		- 2.51		
	24	Lalande F. 1197 S.P.	CD	...	...	...	...	...	...	6.1	22.7	31.4	40.0	19. 51. 49.23		33.67				20. 2. 34.66		- 2.45		
	25	Cephei 24	CD	1.6	27.4	51.2	12.5	37.2	26.2	50.5	14.3	36.5	4.0	20. 3. 2.14		1.66				20. 13. 2.65		- 3.03		
	26	Groombridge3119	CD	37.9	41.5	45.7	53.8	57.9	2.0	13.9	18.0	22.0	26.0	20. 13. 1.93		18.01				20. 34. 19.00		- 3.55		
	27	Bradley 2667.....	CD	2.2	4.9	7.4	12.4	15.0	17.6	25.1	27.9	30.5	33.1	20. 34. 17.65		55.71				20. 49. 56.70		- 3.22		
	28	Lalande 40482 ...	CD	35.0	38.1	42.0	48.8	52.1	55.9	6.1	9.6	13.1	16.8	20. 49. 55.80		50.67				21. 0. 51.66		- 3.25		
	29	Groombridge3381	CD	29.5	33.1	36.5	43.7	47.2	50.9	1.3	4.8	8.2	12.0	21. 0. 50.77		32.98	33.99	1.01		21. 8. 33.97		- 3.42		
	30	ζ Cygni	CD	15.8	18.5	21.4	27.0	29.9	32.9	41.2	44.0	46.9	49.9	21. 8. 32.80		56.21				9. 16. 57.20		- 1.74		
	31	Lalande F. 1473 S.P.	CD	53.6	4.5	14.4	24.1	53.4	3.3	13.6	...	...	...	21. 16. 53.43		55.26				21. 21. 56.25		- 4.37		
	32	Bradley 2832	CD	...	...	28.1	13.9	37.2	0.3	8.2	31.3	...	...	21. 22. 0.28		15.37				21. 31. 16.36		- 4.39		
	33	Lalande F. (2) 277	CD	...	...	57.6	37.9	58.9	19.9	20.9	41.4	...	...	21. 31. 19.84		59.77				21. 42. 0.76		- 3.38		
	34	B.D.+38°No.4601	CD	40.8	43.9	47.0	53.1	56.4	59.8	9.1	12.4	15.5	18.9	21. 41. 59.74		22.24	23.22	0.98		21. 48. 23.23		- 3.50		
	35	16 Pegasi	CD	5.5	8.1	11.1	16.4	19.2	22.0	30.0	32.9	35.8	38.5	21. 48. 21.99		53.16				22. 0. 54.15		- 3.39		
	36	W.B.(2)XXI.1472	CD	32.5	36.0	39.5	46.2	49.6	53.3	3.5	6.9	10.3	14.0	22. 0. 53.23		19.89	20.89	1.00		22. 16. 20.88		- 3.87		
	37	γ Aquarii	CD	...	...	...	14.2	16.8	19.3	26.6	29.1	31.8	34.1	22. 16. 19.32										
Aug. 15	38	⊙ 1 L.....	D	23.5	26.0	...	33.9	...	...	46.5	49.1	51.8	54.4	9. 40. 38.97	(- 2.28)	44.74			0.95	9. 41. 45.69				
	39	⊙ 2 L.....	D	34.2	36.8	39.4	44.4	47.1	49.5	57.1	59.9	2.2	5.0	9. 42. 49.60		18.36	19.36	1.00	[+ 0.01]	15. 30. 19.32		- 2.33		
	40	α Coronæ	D	1.5	4.1	7.0	12.4	15.2	18.1	26.1	29.1	31.9	34.8	15. 30. 18.06		10.35	11.27	0.92		15. 39. 11.31		- 2.60		
	41	α Serpentis	D	54.9	57.3	59.9	4.8	7.2	9.9	17.1	19.8	22.1	24.8	15. 39. 9.82		56.20	57.18	0.98		17. 9. 57.16		- 2.92		
	42	α ¹ Herculis	D	40.3	42.9	45.6	50.5	53.1	55.9	3.4	6.0	8.4	11.1	17. 9. 55.76		55.89	57.18	1.29		.....				
	43	α ¹ Herculis (E&E)	D	49.0	4.3	...	...	...	5.5	21.0	...	...	...	17. 9. 55.45		40.03	40.95	0.92		17. 15. 40.99		- 3.71		
	44	θ Ophiuchi	D	22.6	25.5	28.1	33.8	36.5	39.1	47.2	50.0	52.6	55.5	17. 15. 39.13		27.00	27.87	0.87	0.84†	.....				
	45	α Lyrae	H	7.9	11.0	14.1	20.5	23.6	26.9	36.1	39.5	42.6	46.0	18. 3. 26.87		37.63	38.46	0.83		.....				
	46	2 Aquilæ	H	21.9	24.2	27.0	32.0	34.4	36.9	44.2	46.9	49.4	52.0	18. 36. 36.93		16.38	17.37	0.99	0.95	18. 46. 17.34		- 2.98		
	47	β ¹ Lyrae	D	...	...	...	10.2	13.1	16.1	24.9	27.9	30.9	34.0	18. 46. 16.17		58.55	59.49	0.94		19. 12. 59.51		- 3.44		
	48	ω Aquilæ	D	42.9	45.4	47.9	53.1	55.6	58.1	5.5	8.0	10.6	13.2	19. 12. 58.07		18.00	18.89	0.89		19. 20. 18.06		- 3.64		
	49	δ Aquilæ	D	...	...	...	...	...	17.5	24.8	27.2	29.8	32.1	19. 20. 17.43		24.92	25.89	0.97		19. 24. 25.88		- 3.25		
	50	α Vulpeculæ.....	D	8.2	10.9	13.8	19.1	21.9	24.6	32.8	35.3	38.0	40.9	19. 24. 24.59		54.85	56.51	1.66		.....				
	51	λ Ursæ Minoris...	D	14.7	27.9	37.7	8.9	19.5	33.1	55.8	8.1	16.1	44.4	19. 27. 24.54		57.61				7. 32. 58.57		- 2.37		
	52	Groomb.1347 S.P.	D	...	34.9	38.9	43.9	56.5	0.7	4.9	13.6	18.0	...	19. 32. 56.35										

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 14, 16, and 43, — 39^s.22 : — 39^s.22 : and — 39^s.55.

10. Observed over wire R with the transit-micrometer set to readings 36^r.089, 35^r.616, 35^r.549, 35^r.214, 35^r.133, 35^r.076, 35^r.006, 34^r.944, 34^r.903, 34^r.816.
19. Observed over wire R with the transit-micrometer set to readings 33^r.900, 33^r.930, 34^r.076, 34^r.125, 34^r.226, 34^r.294, 34^r.422, 34^r.485, 34^r.617, 34^r.676.
25. Observed over wire T with the transit-micrometer set to readings 34^r.600, 34^r.800, 35^r.000, 35^r.200, 35^r.400, 35^r.800, 36^r.000, 36^r.200, 36^r.400, 36^r.600.
38, 39. Very cloudy.
51. Observed over wire P with the transit-micrometer set to readings 35^r.386, 35^r.470, 35^r.525, 35^r.765, 35^r.820, 35^r.915, 36^r.076, 36^r.153, 36^r.243, 36^r.444.

MON. M. D.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
1896	Aug. 15	1	Groomb. 1348 S.P.	D	...	...	...	...	28.9	32.9	37.2	45.8	50.1	54.5	19. 33. 28.61	+ 1.18	29.87		0.95	7. 33. 30.83	- 2.37
		2	Lalande F. 1094 S.P.	D	...	...	...	...	...	...	...	12.1	39.8	7.0	19. 40. 19.65	(- 2.28)	26.25		[+ 0.01]	7. 40. 27.21	- 3.39
		3	B.D.+43° No. 3401	D	...	14.9	18.5	25.4	28.9	32.1	42.3	46.0	49.5	...	19. 50. 32.25	[+ 11.96]	32.29			19. 50. 33.25	- 3.04
		4	B.D.+44° No. 3424	D	37.5	40.9	44.5	51.3	54.9	58.6	8.8	12.3	15.8	19.4	20. 14. 58.45		58.47			20. 14. 59.43	- 3.12
		5	Groomb. 1418 S.P.	D	2.6	34.5	...	37.3	8.1	40.0	11.9	...	44.0	14.6	20. 24. 8.68		15.96			8. 24. 16.92	- 2.01
		6	Lalande F. 1339 S.P.	D	...	...	...	57.2	58.1	19.1	39.9	...	...	...	20. 40. 58.15		3.12			8. 41. 4.08	- 1.86
		7	Lalande F. 1347 S.P.	D	...	...	19.9	40.6	41.6	2.7	23.4	4.1	...	...	20. 43. 41.64		46.64			8. 43. 47.60	- 1.79
		8	Piazzi XX. 401...	D	...	...	...	...	16.0	19.5	29.6	32.9	36.5	40.0	20. 50. 19.43		19.47			20. 52. 20.43	- 3.24
		9	ζ Cygni	D	15.6	18.4	21.5	27.0	29.9	32.7	41.1	44.0	46.9	49.8	21. 8. 32.73		32.99	33.99	1.00	21. 8. 33.95	- 3.42
		10	Pallas	D	14.1	16.6	19.1	24.1	26.7	29.3	36.8	39.2	41.7	44.3	21. 14. 29.23		29.71			21. 14. 30.67	- 3.71
		11	W. B. XXI. 396 ..	D	7.1	9.5	...	17.1	19.6	22.1	29.5	...	34.5	37.1	21. 19. 22.10		22.59			21. 19. 23.55	- 3.71
		12	W. B. XXI. 439 ..	D	0.9	3.3	6.0	10.8	13.3	15.9	23.4	25.9	28.2	30.9	21. 21. 15.90		16.39			21. 21. 17.35	- 3.71
		13	Groomb. 1566 S.P.	D	...	...	...	...	48.0	52.4	56.6	5.0	9.2	13.4	21. 32. 48.14		49.38			9. 32. 50.34	- 1.89
		14	Bradley 2833	D	9.9	12.3	15.1	...	...	...	...	34.9	37.4	39.9	21. 39. 24.95		25.65			21. 39. 26.61	- 4.08
		15	c' Capricorni	D	...	17.2	20.0	24.9	27.4	30.0	...	...	...	...	21. 39. 29.94		30.64			21. 39. 31.60	- 4.08
		16	Groombridge 3649	D	50.0	53.9	...	6.5	10.7	14.9	27.8	...	35.5	40.0	21. 57. 14.97		14.79			21. 57. 15.75	- 3.37
		17	Groombridge 3719	D	37.4	44.1	51.4	5.5	12.4	20.0	40.3	47.8	55.1	2.2	22. 8. 19.73		18.83			22. 8. 19.79	- 3.60
		18	Groombridge 3754	D	10.7	19.7	29.2	47.9	57.1	6.4	34.1	43.4	53.0	2.7	22. 17. 6.56		5.16			22. 17. 6.12	- 3.89
		19	η Aquarii	D	48.1	50.6	53.1	58.0	0.4	3.1	10.2	12.9	15.3	17.8	22. 30. 2.99		3.60	4.51	0.91	22. 30. 4.56	- 3.84
		20	ζ Pegasi	D	3.6	6.1	8.6	13.6	16.1	18.6	26.0	28.6	31.1	33.8	22. 36. 18.65		19.14	20.12	0.98	22. 36. 20.10	- 3.67
		21	μ Pegasi	D	44.9	47.6	50.3	55.7	58.2	1.0	9.2	12.0	14.7	17.5	22. 45. 1.15		1.49	2.50	1.01	22. 45. 2.45	- 3.55
		22	λ Aquarii	D	58.5	0.9	3.5	8.3	11.0	13.6	21.0	23.5	26.0	28.6	22. 47. 13.53		14.22	15.22	1.00	22. 47. 15.18	- 3.93
Aug. 16	23	⊙ 1 L.	WB	...	...	...	...	20.6	23.1	30.8	33.2	36.0	38.5	9. 44. 23.21		} 28.84			1.09	9. 45. 29.94	
	24	⊙ 2 L.	WB	18.2	20.8	23.5	28.5	31.0	33.5	41.1	43.6	46.2	48.9	9. 46. 33.57		} 43.58			[+ 0.02]	13. 19. 44.68	- 1.88
	25	Spica	B	...	...	...	...	...	...	50.2	52.9	55.3	58.0	13. 19. 42.86		22.88	44.65	1.07		.....	
	26	Polaris S.P.	B	30.2	35.6	40.9	44.9	51.1	3.6	8.4	13.7	21.3	27.1	13. 20. 57.68		18.26	23.55	0.67		15. 30. 19.36	- 2.32
	27	α Coronæ	B	1.3	4.0	6.9	12.2	15.1	18.0	26.1	29.0	31.9	34.7	15. 30. 17.96		55.95	19.35	1.09		15. 36. 57.05	- 2.42
	28	ι Serpentis	B	...	...	...	50.3	53.1	55.8	3.6	6.1	8.9	11.6	15. 36. 55.57		55.95				15. 39. 11.24	- 2.58
	29	α Serpentis	B	54.5	57.1	59.7	4.6	7.1	9.8	16.9	19.5	22.0	24.5	15. 39. 9.61		10.14	11.25	1.11		15. 41. 25.70	- 2.50
	30	β Serpentis	B	8.8	11.3	14.0	19.0	21.6	24.1	31.8	34.2	36.9	39.6	15. 41. 24.17		24.60				15. 44. 5.94	- 2.47
	31	κ Serpentis	B	...	...	54.0	59.1	1.9	4.5	12.1	14.8	...	...	15. 44. 4.45		4.84				15. 45. 16.29	- 2.37
	32	δ Coronæ	B	58.2	1.1	3.9	9.3	12.1	14.9	23.0	25.9	28.6	31.5	15. 45. 14.89		15.19				15. 47. 45.92	+ 0.02
	33	ζ Ursæ Minoris...	B	...	...	...	...	...	...	22.6	34.6	46.6	58.1	15. 47. 46.83		44.82				15. 57. 51.38	- 2.47
	34	π Serpentis	B	33.8	36.5	39.2	44.5	47.2	50.0	57.9	0.5	3.3	6.0	15. 57. 49.93		50.28				16. 3. 25.42	- 2.57
	35	κ Herculis	B	8.3	10.9	13.6	18.6	21.3	24.0	31.6	34.1	36.8	39.5	16. 3. 23.91		24.32				16. 5. 12.37	- 2.30
	36	τ Coronæ... ..	B	...	...	58.9	4.9	8.0	11.1	20.1	23.3	...	...	16. 5. 11.11		11.27				16. 8. 56.50	- 2.86
	37	δ Ophiuchi	B	39.9	42.2	44.9	49.8	52.1	54.8	2.1	4.6	7.1	9.7	16. 8. 54.76		55.40	56.48	1.08		16. 11. 54.73	
	38	Δ 1 L.	B	...	24.0	27.0	32.6	35.5	38.4	46.9	49.8	52.7	...	16. 10. 38.41		39.34				16. 16. 51.11	- 2.84
	39	σ Serpentis	B	...	...	...	44.4	46.9	49.5	...	59.1	1.8	4.2	16. 16. 49.42		50.01				16. 18. 5.09	- 2.43
	40	ξ Coronæ	B	...	...	...	...	0.9	3.9	12.1	15.1	18.1	21.1	16. 18. 3.75		3.99				16. 22. 36.48	- 1.73
	41	η Draconis	B	...	9.8	15.0	25.3	30.5	36.0	51.2	56.2	1.8	...	16. 22. 35.83		35.38				16. 25. 47.49	- 2.60
	42	β Herculis	B	...	...	...	40.7	43.3	46.0	53.9	56.5	59.3	2.0	16. 25. 46.03		46.39				16. 27. 47.01	- 2.75
	43	h Herculis	B	30.1	32.8	35.3	40.3	42.9	45.5	53.0	55.4	58.0	0.6	16. 27. 45.43		45.91				16. 30. 47.24	- 2.29
	44	σ Herculis	B	26.0	29.1	32.7	39.3	42.8	46.1	56.0	59.4	2.8	6.1	16. 30. 46.08		46.14				16. 37. 24.33	- 2.48
	45	ζ Herculis	B	5.6	8.5	11.4	17.1	20.0	23.0	31.6	34.5	37.5	40.4	16. 37. 23.00		23.23	24.38	1.15		16. 39. 22.18	- 2.39
	46	η Herculis	B	1.8	4.9	8.1	14.6	17.8	21.0	30.3	33.6	36.9	40.1	16. 39. 20.96		21.08				16. 40. 53.12	- 2.87
	47	ι Herculis	B	36.5	38.9	41.5	46.4	49.0	51.6	58.9	1.4	4.0	6.5	16. 40. 51.51		52.02				16. 45. 19.27	- 2.91
	48	h Herculis	B	2.6	5.1	7.7	12.6	15.1	17.8	25.1	27.5	30.0	32.6	16. 45. 17.65		18.17				16. 52. 47.59	- 2.89
	49	κ Ophiuchi	B	31.0	33.4	36.0	40.9	43.4	46.0	53.4	56.0	58.4	1.1	16. 52. 46.00		46.49	47.56	1.07		.....	
	50	κ Ophiuchi (E&E)	B	...	55.6	10.8	25.9	41.0	55.9	...	...	...	...	16. 52. 45.97		46.46	47.56	1.10		.....	
	51	ε Herculis	B	2.5	5.2	8.2	14.0	16.9	19.9	28.4	31.3	34.1	37.1	16. 56. 19.80		20.04	21.15	1.11		16. 56. 21.14	- 2.58
	52	ε Herculis..(E&E)	B	...	25.1	42.4	59.9	17.1	34.4	...	...	...	...	16. 56. 19.91		20.15	21.15	1.00		.....	
	53	89 Herculis	HA	58.3	1.0	3.9	9.4	12.1	15.0	23.1	25.9	28.6	31.5	17. 51. 14.92		15.23	16.32	1.09	1.09	.....	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 50 and 52, — 39^m.90 and — 39^m.90.
Correction for passage of Semidiameter, No. 38, + 74^s.25.

26. Observed over wire T with the transit-micrometer set to readings 35^m.850, 35^m.800, 35^m.750, 35^m.700, 35^m.650, 35^m.550, 35^m.500, 35^m.450, 35^m.400, 35^m.350.
38. Correction to R.A. on true meridian, + 0^s.04.

1898GOAW...58A...1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GCAW

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Reduc- tion to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].									
				s	s	s	s	s	s	s	s	s	s		h	m					s	s	s	
Aug. 16	1	72 Ophiuchi	HA	11.8	14.1	16.7	21.8	24.0	26.8	34.1	36.6	39.1	41.9	18. 2. 26.73	+ 1.18	27.22	28.32	1.10	1.09	.....				
	2	δ Ursæ Minoris...	HA	12.1	21.5	28.6	35.2	41.5	48.0	54.9	2.5	8.2	14.9	18. 5. 55.54	(- 2.28)	47.00	47.90	0.90	[+ 0.02]	.....				
	3	δ Aquilæ	B	...	...	...	12.2	14.8	17.2	24.5	26.9	29.4	32.0	19. 20. 17.18	[+ 11.96]	17.75	18.88	1.13	1.09	.....				
	4	W.B.(2) XIX. 680	B	48.0	50.9	53.6	59.1	2.0	4.9	13.1	15.8	18.7	21.6	19. 24. 4.81		5.10				19. 20. 18.86	- 3.63			
	5	Piazzì XIX. 153..	B	39.7	42.6	45.3	50.9	53.8	56.7	4.9	7.6	10.4	13.2	19. 24. 56.55		56.84				19. 24. 57.95	- 3.20			
	6	β Cygni	B	16.7	19.5	22.2	27.8	30.5	33.5	41.8	44.6	47.3	50.2	19. 26. 33.45		33.74				19. 26. 34.85	- 3.20			
	7	Bradley 2474.....	B	18.9	21.6	24.3	30.0	32.7	35.6	43.9	46.8	49.5	52.2	19. 26. 35.59		35.88				19. 26. 36.99	- 3.20			
	8	Groomb.1340 S.P.	B	...	30.4	36.5	42.5	0.0	6.1	12.1	24.0	30.0	...	19. 33. 0.08		1.76				7. 33. 2.87	- 2.60			
	9	Groomb.1345 S.P.	B	...	38.1	44.2	50.3	8.1	14.2	20.3	32.2	38.2	...	19. 34. 8.08		9.76				7. 34. 10.87	- 2.60			
	10	Lalande F. 1094 S.P.	B	51.1	57.2	2.9	8.1	13.0	25.2	30.7	36.0	42.0	47.6	19. 40. 19.38		25.98				7. 40. 27.09	- 3.57			
	11	Piazzì VII. 216 S.P.	B	...	...	...	41.8	46.0	58.9	3.4	7.5	16.0	...	19. 45. 58.84		0.10				7. 46. 1.21	- 2.34			
	12	Groombridge2970	B	55.9	59.2	2.9	9.5	13.1	16.5	26.9	30.1	33.8	37.1	19. 50. 16.55		16.60				19. 50. 17.71	- 3.04			
	13	B.D.+43°No.3401	B	11.5	14.9	18.4	25.1	28.6	32.1	42.2	45.6	49.1	52.8	19. 50. 32.08		32.12				19. 50. 33.23	- 3.03			
	14	A Sagittarii	B	...	...	...	34.0	36.7	39.5	47.9	50.4	53.3	56.0	19. 52. 39.55		40.46				19. 52. 41.57	- 4.53			
	15	PiazzìVII.260S.P.	B	...	18.2	22.2	26.5	39.1	43.3	47.7	56.1	0.3	...	19. 54. 39.10		40.34				7. 54. 41.45	- 2.29			
	16	β Capricorni	B	57.0	59.5	2.0	7.3	9.9	12.4	20.0	22.5	25.1	27.7	20. 15. 12.38		13.15	14.25	1.10		20. 15. 14.26	- 4.19			
Aug. 17	17	☉ 2 L.....	H	...	...	...	15.1	17.7	25.5	27.9	30.2	33.1	9. 50. 17.77	+ 1.37	18.26			0.88	9. 49. 13.87					
	18	Polaris S.P.	H	43.8	52.9	1.4	18.0	29.4	13.1	22.1	40.2	48.4	12.1	13. 20. 59.65	(- 2.09)	23.91	24.52	0.61	[- 0.03]	.....				
	19	Arcturus	H	40.0	42.5	45.2	50.3	53.1	55.9	3.6	6.2	8.7	11.5	14. 10. 55.74	[+ 12.00]	56.15	57.05	0.90		.....				
	20	Antares	H	46.8	49.5	52.1	57.8	0.4	3.3	11.5	14.1	16.9	20.0	16. 23. 3.28		4.21	5.06	0.85		.....				
	21	ζ Herculis	H	5.8	...	11.7	17.4	20.2	23.3	31.9	34.8	...	40.6	16. 37. 23.25		23.51	24.36	0.85		.....				
	22	☉ 1 L.....	H	43.1	46.0	49.0	54.9	57.8	0.8	9.4	12.1	15.1	18.0	17. 14. 0.66		1.62				17. 15. 17.02				
	23	α Ophiuchi	H	52.8	55.3	58.0	2.9	5.5	8.0	15.5	18.0	20.6	23.2	17. 30. 8.02		8.51	9.37	0.86		.....				
	24	3 Sagittarii	H	46.1	48.9	51.8	57.2	0.0	3.0	11.1	14.0	16.9	19.8	17. 41. 2.92		3.87				17. 41. 4.73	- 3.95			
	25	δ Ursæ Minoris...	H	18.1	27.5	36.4	3.9	16.7	14.1	29.6	53.8	2.2	20.8	18. 5. 55.86		47.68	47.51	- 0.17		.....				
	26	α Lyrae	H	...	10.9	14.1	20.4	23.8	26.9	26.1	39.5	42.7	...	18. 33. 26.86		27.02	27.84	0.82		.....				
	27	α Lyrae.....(E&E)	H	9.7	28.5	47.5	...	25.7	44.3	3.5	...	...	...	18. 33. 26.42		26.58	27.84	1.26		.....				
	28	Cephei 51 S.P....	H	17.9	34.6	44.0	8.1	21.5	2.0	11.4	18.8	45.0	54.9	18. 51. 40.46		51.58	52.61	1.03		.....				
	29	ω Aquilæ	H	43.1	45.5	...	53.0	55.6	58.1	5.6	...	10.6	13.2	19. 12. 58.13		58.63	59.48	0.85		.....				
	30	λ Ursæ Minoris...	H	35.9	43.8	50.6	59.1	7.7	15.2	22.1	31.8	40.2	56.1	19. 27. 20.95		52.44	54.61	2.17		.....				
	31	Groomb.1337 S.P.	H	...	...	...	31.3	58.9	7.6	17.7	...	...	...	19. 34. 58.69		1.04				7. 35. 1.90	- 2.89			
Aug. 18	32	ζ Cygni	HA	15.6	18.4	21.2	26.9	29.9	32.7	41.1	44.0	46.9	49.8	21. 8. 32.69		32.98	34.00	1.02	1.07	.....				
	33	ζ Cygni ... (E&E)	HA	21.8	39.0	...	...	...	47.0	4.5	...	...	...	21. 8. 32.49		32.78	34.00	1.22	[- 0.04]	.....				
	34	ι Capricorni	HA	14.2	16.8	19.4	24.5	27.1	29.8	37.5	40.1	42.6	45.3	21. 16. 29.77		30.59	31.64	1.05		.....				
	35	Oeltz. Arg. (S.) 21562	HA	24.0	26.5	29.3	34.5	37.3	40.0	48.0	50.6	53.3	56.1	21. 35. 40.00		40.88				21. 35. 41.91	- 4.45			
	36	μ Capricorni	HA	24.7	27.1	29.9	34.8	37.4	40.0	47.5	50.1	52.6	55.2	21. 47. 39.97		40.75				21. 47. 41.78	- 4.21			
	37	79 Draconis	HA	...	54.4	3.2	20.3	28.8	37.9	3.1	11.4	20.1	...	21. 51. 37.57		36.42				21. 51. 37.45	- 3.62			
	38	ο Aquarii	HA	43.5	46.9	48.3	53.3	56.0	57.2	5.9	8.1	10.8	13.4	21. 58. 58.39		59.04				21. 59. 0.07	- 3.94			
	39	Groombridge3683	HA	...	...	...	...	...	...	...	54.8	0.8	11.1	22. 1. 25.66		25.11				22. 1. 26.14	- 3.48			
	40	Groombridge3688	HA	...	...	...	...	...	...	26.2	32.3	7.5	42.8	22. 1. 57.15		56.60				22. 1. 57.63	- 3.48			
	41	32 Ursæ Maj. S.P.	HA	51.9	...	4.1	10.2	28.1	34.1	40.0	52.0	...	4.0	22. 10. 27.96		29.62				10. 10. 30.65	- 1.68			
	42	η Aquarii	HA	48.1	50.5	53.0	58.0	0.3	2.8	10.3	12.9	15.3	17.8	22. 30. 2.94		3.57	4.55	0.98		.....				
	43	Groombridge3854	HA	42.1	46.2	50.2	58.8	3.0	7.1	19.5	23.4	27.6	32.0	22. 36. 7.05		6.92				22. 36. 7.95	- 3.51			
	44	Carrington 3486..	HA	10.8	29.3	38.0	57.2	3.9	20.0	...	...	...	...	22. 43. 18.16		15.06				22. 43. 16.09	- 5.35			
	45	51 Pegasi	HA	7.8	10.1	13.0	18.0	20.9	23.4	31.4	34.0	36.6	39.3	22. 52. 23.49		23.90				22. 52. 24.95	- 3.62			
	46	β Piscium	HA	22.3	24.9	27.3	32.1	34.7	37.3	44.5	47.1	49.5	52.0	22. 58. 37.18		37.77				22. 58. 38.80	- 3.78			
Aug. 19	47	☉ 1 L.....	RC	17.8	20.2	23.1	28.0	30.6	33.1	40.6	43.4	45.9	48.4	9. 55. 33.15		} 38.66			1.03	9. 56. 39.67				
	48	☉ 2 L.....	RC	...	...	...	38.1	40.6	43.1	50.7	...	...	...	9. 57. 43.18						.....				
	49	Castor	B	41.2	44.1	47.1	52.9	55.9	58.9	7.4	10.3	13.3	16.1	7. 27. 58.77		59.03	0.01	0.98	0.96	7. 27. 59.99	- 2.14			

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 27 and 33, - 40^s.15 and - 40^s.64.
Corrections for passage of Semidiameter, Nos. 17 and 22, - 65^s.26 and + 74^s.50.

2. Observed over wire U with the transit-micrometer set to readings 34^r.469, 34^r.704, 34^r.874, 35^r.031, 35^r.181, 35^r.344, 35^r.478, 35^r.667, 35^r.824, 35^r.967.
10. Observed over wire T with the transit-micrometer set to readings 36^r.600, 36^r.400, 36^r.200, 36^r.000, 35^r.800, 35^r.400, 35^r.200, 35^r.000, 34^r.800, 34^r.600.
18. Observed over wire T with the transit-micrometer set to readings 36^r.271, 36^r.174, 36^r.109, 35^r.969, 35^r.880, 35^r.473, 35^r.390, 35^r.259, 35^r.174, 34^r.960.
22. Correction to R.A. on true meridian, + 0^s.04.
25. Observed over wire T with the transit-micrometer set to readings 35^r.262, 33^r.498, 33^r.709, 34^r.357, 34^r.668, 36^r.029, 36^r.412, 36^r.980, 37^r.175, 37^r.630.
28. Observed over wire T with the transit-micrometer set to readings 37^r.243, 36^r.892, 36^r.710, 36^r.227, 35^r.967, 35^r.183, 34^r.993, 34^r.852, 34^r.308, 34^r.140.
30. Observed over wire R with the transit-micrometer set to readings 34^r.700, 34^r.768, 34^r.831, 34^r.884, 34^r.937, 35^r.010, 35^r.038, 35^r.093, 35^r.168, 35^r.278.
39. Observed over wires W, X and Z.
40. Observed over wires W, X, Y and Z.
44. Observed over wire T with the transit-micrometer set to readings 35^r.200, 36^r.219, 36^r.745, 37^r.811, 38^r.178, 39^r.091.
46. Cloudy.
47. 48. Faint; cloudy.
49. Very faint; hazy.

MONTH DAY 1898	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Aug. 20	1	☉ 1 L.	B	0'2	2'8	5'2	10'3	12'9	15'5	22'9	25'4	28'0	30'6	9. 59. 15'42	+ 1'37	} 20'86	}	0'96	[- 0'01]	10. 0. 21'82		
2	☉ 2 L.	B	10'0	12'5	15'1	20'1	22'7	25'4	33'0	35'5	38'0	40'5	10. 1. 25'32	(- 2'09)								
3	Venus 1 L.	B	43'4	58'4	13'5	16'0	...	...	41'1	43'8	58'7	13'8	10. 46. 28'63	+ 12'00								
4	Venus 2 L.	B	...	...	19'2	24'1	26'8	29'3	36'8	39'2	...	...	10. 46. 29'29									
5	α Serpentis	B	54'8	57'3	59'9	4'7	7'1	9'8	17'1	19'5	22'0	24'6	15. 39. 9'72		10'27	11'19	0'92		15. 39. 11'22	- 2'52		
6	β Draconis	B	41'9	46'0	50'0	58'0	2'7	6'2	18'2	22'1	26'2	30'4	17. 28. 6'17		6'07				17. 28. 7'02	- 2'17		
7	α Ophiuchi	B	52'5	55'1	57'9	2'7	5'4	8'0	15'5	17'9	20'4	23'1	17. 30. 7'89		8'38	9'33	0'95		17. 30. 9'33	- 2'98		
8	Piazzi V. 246 S.P.	B	24'5	30'9	...	...	...	...	...	...	34'0	40'2	19. 50. 2'35		4'08				5. 50. 5'03	- 3'55		
9	γ Draconis	B	49'1	53'1	57'1	5'0	8'9	13'0	24'8	...	...	36'7	17. 54. 12'97		12'89				17. 54. 13'84	- 2'31		
10	ψ Draconis	B	...	...	...	...	...	0'7	24'2	32'3	40'3	48'7	17. 57. 0'61		59'58				17. 57. 0'53	- 1'41		
11	δ Ursæ Minoris...	B	11'9	20'6	28'6	37'4	45'5	2'8	11'0	19'1	28'0	36'5	18. 5. 54'14		45'96	46'30	0'34		.....			
12	3 Lyncis S.P.	B	59'4	5'0	10'0	15'6	31'1	36'1	41'5	51'9	57'3	2'5	18. 12. 30'96		32'44				6. 12. 33'39	- 3'17		
13	η Serpentis	B	42'6	45'1	47'6	52'5	54'9	57'6	4'8	7'3	9'8	12'2	18. 15. 57'48		58'14	59'08	0'94		18. 15. 59'09	- 3'45		
14	109 Herculis...R.	B	29'4	45'4	1'3	4'0	6'8	...	...	...	...	...	18. 19. 17'31		17'97				18. 19. 18'92	- 3'03		
15	109 Herculis	B	...	...	...	...	...	...	31'1	33'7	49'5	5'6	18. 19. 17'80		18'20				(18. 19. 19'15)	- 3'03		
16	1 Aquilæ	B	19'9	22'2	24'9	29'9	32'2	34'9	42'1	44'9	47'2	49'9	18. 29. 34'85		35'56				18. 29. 36'51	- 3'66		
17	2 Aquilæ ....R.	B	21'6	24'0	26'5	31'5	34'0	36'6	44'0	46'5	49'1	51'8	18. 36. 36'60		37'46	38'41	0'95		18. 36. 38'41	- 3'71		
18	111 Herculis	B	...	...	...	22'2	24'8	27'5	35'1	37'9	40'4	43'1	18. 42. 27'49		27'93				18. 42. 28'88	- 3'18		
19	σ Sagittarii	B	34'8	37'5	40'3	...	...	51'4	...	2'5	5'1	8'0	18. 48. 51'40		52'34				18. 48. 53'29	- 4'26		
20	Cephei 51 S.P. ...	B	16'0	21'4	26'8	32'4	37'5	47'8	52'7	56'9	2'0	6'6	18. 51. 42'01		53'13	54'00	0'87		.....			
21	ζ Sagittarii	B	45'1	48'0	50'9	56'3	59'5	2'1	10'6	13'6	16'2	19'5	18. 56. 2'22		3'22				18. 56. 4'17	- 4'43		
22	ξ Aquilæ ....R.	B	24'1	26'7	29'3	34'2	36'9	39'6	46'9	49'5	52'1	54'7	19. 0. 39'44		40'14	41'08	0'94		19. 0. 41'09	- 3'32		
23	ω Aquilæ	B	42'9	45'5	48'0	53'1	55'5	58'2	5'5	8'0	10'5	13'1	19. 12. 58'07		58'57	59'45	0'88		19. 12. 59'52	- 3'40		
24	τ Draconis...R.	B	...	...	0'2	17'4	25'9	34'9	...	...	...	...	19. 17. 34'60		34'35				19. 17. 35'30	- 2'03		
25	τ Draconis	B	...	...	...	...	...	...	0'5	9'1	17'9	26'9	19. 17. 35'45		34'30				19. 17. 35'25	- 2'03		
26	λ Ursæ Minoris...	B	8'9	24'0	36'7	51'3	4'1	30'7	45'5	59'9	12'9	27'2	19. 27. 18'12		49'61	51'37	1'76		.....			
27	23 Lyncis S.P. ...	B	46'4	50'9	55'5	0'1	...	...	...	...	...	...	19. 32. 13'69		15'00				7. 32. 15'95	- 2'60		
28	Groomb. 1340 S.P.	B	...	30'8	36'9	42'9	0'6	6'8	12'5	24'5	30'5	...	19. 33. 0'57		2'22				7. 33. 3'17	- 2'79		
29	Groomb. 1345 S.P.	B	...	38'4	44'7	51'0	8'2	14'4	20'7	32'2	38'3	...	19. 34. 8'37		10'03				7. 34. 10'98	- 2'79		
30	Groomb. 1337 S.P.	B	...	...	...	...	58'6	7'5	17'1	34'9	44'0	...	19. 34. 58'52		0'86				7. 35. 1'81	- 3'09		
31	Groomb. 1342 S.P.	B	...	...	...	...	53'3	2'5	12'0	29'9	39'1	48'1	19. 35. 53'37		55'72				7. 35. 56'67	- 3'09		
32	γ Aquilæ	W	5'9	8'4	10'9	16'0	18'4	21'0	28'4	31'0	33'6	36'1	19. 41. 21'01		21'52	22'39	0'87	0'92	.....			
33	α Aquilæ	W	29'6	32'1	34'5	39'6	42'0	44'5	52'0	54'5	57'1	59'6	19. 45. 44'59		45'13	46'08	0'95		.....			
34	Lalande 37813...	B	50'4	53'0	55'9	1'1	3'9	6'7	14'5	17'4	20'1	22'9	19. 48. 6'63		7'54			0'96	19. 48. 8'49	- 4'42		
35	Piazzi VII. 236 S.P.	B	9'9	15'9	21'9	27'7	...	...	...	...	...	...	19. 50. 45'02		46'64				7. 50. 47'59	- 2'65		
36	B.D.+53°No.2131	B	...	...	...	...	...	1'7	14'0	18'1	22'3	26'8	19. 51. 1'53		1'39				19. 51. 2'34	- 2'83		
37	Oeltz. Arg. (N.) 19786	B	...	...	...	...	...	...	54'5	58'8	2'9	7'3	19. 51. 42'08		41'94				19. 51. 42'89	- 2'83		
38	A Sagittarii	B	...	...	...	...	...	39'8	47'8	50'6	53'4	56'1	19. 52. 39'67		40'61				19. 52. 41'56	- 4'52		
39	Bradley 1160 S.P.	B	...	30'8	39'1	47'5	12'0	...	...	...	...	...	20. 9. 12'09		14'28				8. 9. 15'23	- 2'68		
40	β Cygni	B	21'8	24'9	28'0	...	...	40'2	...	52'4	55'6	58'9	20. 10. 40'29		40'49				20. 10. 41'44	- 3'18		
41	Piazzi XX. 61	B	30'0	32'9	36'0	...	...	48'2	...	0'4	3'5	6'8	20. 10. 48'29		48'49				20. 10. 49'44	- 3'18		
42	B.D.+36°No.3987	B	51'6	54'8	58'0	4'0	7'1	10'2	...	...	...	...	20. 13. 10'26		10'45				20. 13. 11'40	- 3'18		
43	δ 1 L.	B	...	...	...	...	...	...	48'7	51'4	54'1	57'1	...	20. 13. 40'51		41'40				20. 14. 51'00		
44	Groomb. 1418 S.P.	B	38'7	45'3	51'4	57'4	4'0	16'3	22'5	28'4	34'6	40'5	20. 24. 9'91		16'88				8. 24. 17'83	- 2'90		
45	Oeltz. Arg. (N.) 20678	B	27'0	31'2	35'5	44'0	48'0	52'4	...	...	...	...	20. 27. 52'38		52'23				20. 27. 53'18	- 3'01		
46	Oeltz. Arg. (N.) 20708	B	32'0	36'1	40'5	48'5	52'9	57'2	9'5	13'7	17'9	22'2	20. 28. 57'11		56'97				20. 28. 57'92	- 3'02		
47	Groombridge 3222	B	5'6	...	...	...	26'4	30'9	43'1	...	...	...	20. 29. 30'75		30'61				20. 29. 31'56	- 3'02		
48	*N.P.D. 45°45'...	B	...	26'0	29'6	...	39'8	43'2	53'5	56'9	0'4	4'0	20. 30. 43'29		43'36				20. 30. 44'31	- 3'14		
49	α Delphini	B	35'1	37'7	40'3	45'4	48'0	50'6	58'1	0'7	3'3	6'0	20. 34. 50'56		51'01	51'96	0'95		20. 34. 51'96	- 3'55		
50	α Delphini (E&E)	B	46'1	1'4	16'8	32'2	47'7	3'0	18'5	...	...	...	20. 34. 50'61		51'06	51'96	0'90		.....			
51	α Cygni	B	34'1	37'9	41'3	48'1	51'8	55'3	5'6	8'9	12'5	16'1	20. 37. 55'21		55'27				20. 37. 56'22	- 3'15		
52	ψ Capricorni	B	42'3	45'3	48'0	53'4	56'2	59'1	7'1	9'8	12'4	15'4	20. 39. 58'94		59'87				20. 40. 0'82	- 4'56		
53	Groombridge 3290	B	...	...	13'1	20'8	24'8	28'7	40'1	44'0	...	...	20. 44. 28'66		28'60				20. 44. 29'55	- 3'12		
54	B.D.+55°No.2473	B	...	...	...	...	...	...	52'0	18'0	44'0	20. 45. 26'16		25'98					20. 45. 26'93	- 3'08		

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 50, — 41'86.

Correction for passage of Semidiameter, No. 43, + 68'62.

3. Observed over wires M, N, O, P, W, X, Y and Z.

4. A correction of + 0'01, for defect of illumination, has been applied in forming the concluded transit.

11. Observed over wire T with the transit-micrometer set to readings 34'600, 34'800, 35'000, 35'200, 35'400, 35'600, 35'800, 36'000, 36'200, 36'400, 36'600.

14. Observed over wires M, N, O, P and Q.

20. Observed over wire T with the transit-micrometer set to readings 36'100, 36'300, 35'900, 35'800, 35'700, 35'500, 35'400, 35'300, 35'200, 35'100.

26. Observed over wire T with the transit-micrometer set to readings 35'100, 35'200, 35'300, 35'400, 35'500, 35'600, 35'700, 35'800, 35'900, 36'000, 36'100.

36, 48. Observed in dark field with wires illuminated.

44. Observed over wire T with the transit-micrometer set to readings 35'600, 36'400, 36'200, 36'000, 35'800, 35'600, 35'400, 35'200, 35'000, 34'800, 34'600.

54. Observed over wires X, Y and Z.

3, 4. Very faint; hazy.

5, 10, 38. Very faint; cloudy.

15. Observed over wires W, X, Y and Z.

43. Correction to R.A. on true meridian, + 0'03.

1898G04MM.58A...1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock ap- proxi- mately Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h	m	s	"	s	s	s	h	m	s	s		
Aug. 20	1	Groomb.1483 S.P.	B	42.3	47.8	53.0	58.1	13.5	18.6	23.8	34.1	39.5	44.7	20.49.13.46	+ 1.37	14.93			0.96	8.49.15.88	- 2.22	
	2	Piazzi XX. 401...	B	...	...	...	...	...	...	29.5	32.9	36.3	40.0	20.52.19.33	(- 2.09)	19.41			[- 0.01]	20.52.20.36	- 3.22	
	3	Groomb.1494 S.P.	B	57.7	1.8	5.4	9.1	20.7	24.6	28.4	35.9	40.0	43.6	20.54.20.66	[+ 12.00]	21.78				8.54.22.73	- 2.09	
	4	ζ Cygni.....	B	15.6	18.2	21.3	27.0	29.9	32.7	41.2	44.0	46.9	49.8	21.8.32.70		32.99	34.00	1.01		21.8.33.94	- 3.43	
	5	ζ Cygni.....(E&E)	B	23.0	40.1	57.4	14.4	31.5	48.6	5.6	...	...	...	21.8.32.73		33.02	34.00	0.98		.....		
	6	Pallas.....	B	28.3	30.9	33.4	38.5	41.1	43.6	50.9	53.6	56.0	58.6	21.10.43.53		44.04				21.10.44.99		
	7	σ Cygni.....	B	2.9	6.0	9.2	15.6	18.7	22.0	31.5	34.5	37.7	40.9	21.13.21.95		22.11				21.13.23.06	- 3.33	
	8	Oeltz. Arg. (N.) 22084	B	5.9	9.2	13.0	...	...	...	27.2	...	41.4	44.9	48.8	21.17.27.23		27.27				21.17.28.22	- 3.29
	9	Groombridge3438	B	15.6	19.2	22.8	...	...	...	37.1	...	51.3	54.9	58.6	21.17.37.10		37.13				21.17.38.08	- 3.29
	10	Groombridge3444	B	...	...	...	43.1	46.2	49.6	59.2	...	...	...	21.18.49.60		49.74				21.18.50.69	- 3.34	
	11	Piazzi XXI. 148...	B	11.8	14.5	17.4	22.8	25.5	28.2	36.2	39.1	42.0	44.7	21.24.28.26		29.19				21.24.30.14	- 4.58	
	12	B.D.+47° No.3455	B	...	...	...	14.5	18.1	22.1	33.1	...	...	...	21.28.22.02		22.02				21.28.22.97	- 3.31	
	13	B.D.+48° No.3411	B	...	...	...	...	...	...	43.4	47.1	50.9	54.8	21.28.32.49		32.49				21.28.33.44	- 3.31	
	14	Oeltz. Arg. (S.) 21562	B	...	...	...	...	...	...	40.0	48.0	50.7	53.3	21.35.40.06		40.95				21.35.41.90	- 4.47	
	15	45 Capricorni ...	B	7.3	9.8	12.5	17.5	20.1	22.8	30.2	32.8	35.4	38.0	21.38.22.68		23.47				21.38.24.42	- 4.25	
	16	γ Pegasi.....	B	...	...	...	...	...	34.9	37.4	45.0	47.6	50.2	52.9	21.39.37.41		37.86				21.39.38.81	- 3.64
	17	B.D.+38° No.4601	B	...	...	...	53.2	56.2	59.8	9.0	12.1	15.5	18.7	21.41.59.61		59.77				21.42.0.72	- 3.41	
	18	W.B.(2)XXI.1045	B	56.1	59.5	2.9	9.8	13.2	16.8	26.9	30.1	33.9	37.4	21.44.16.71		16.78				21.44.17.73	- 3.38	
	19	W.B.(2)XXI.1472	B	32.4	35.9	39.4	46.2	49.7	53.2	3.2	6.9	10.2	14.0	22.0.53.16		53.23				22.0.54.18	- 3.43	
	20	Groombridge3683	B	...	...	...	...	...	...	42.9	48.9	54.7	0.9	22.1.25.64		25.09				22.1.26.04	- 3.49	
	21	Oeltz. Arg. (N.) 23407	B	...	...	29.8	37.1	40.5	44.2	54.9	58.5	...	...	22.2.44.24		44.27				22.2.45.22	- 3.42	
	22	Oeltz. Arg. (N.) 23462	B	...	...	...	...	...	...	5.9	10.0	14.4	19.1	22.3.52.60		52.40				22.3.53.35	- 3.43	
	23	Groombridge3693	B	...	...	...	...	...	...	33.8	38.2	42.6	47.3	22.4.20.70		20.50				22.4.21.45	- 3.43	
	24	Groombridge3719	B	...	...	51.4	5.2	12.2	20.0	40.8	48.0	...	...	22.8.19.74		18.91				22.8.19.86	- 3.63	
	25	Groombridge3727	B	7.9	12.0	16.7	24.9	28.9	33.5	46.3	50.6	54.9	59.4	22.10.33.57		33.41				22.10.34.36	- 3.45	
	26	Radcliffe 5627 ...	B	...	...	...	27.3	31.5	36.1	48.8	53.2	57.4	1.7	22.10.36.02		35.86				22.10.36.81	- 3.45	
	27	B.D.+54° No.2719	B	...	...	...	...	...	...	22.6	35.1	39.6	43.9	48.2	22.11.23.50		22.34				22.11.23.29	- 3.45
	28	Groombridge3766	B	...	...	...	...	16.9	27.2	56.9	6.8	17.1	27.4	22.18.27.49		26.04				22.18.26.99	- 4.01	
	29	Groombridge3789	B	...	...	...	...	...	20.6	33.0	...	41.5	45.7	22.25.20.67		20.53				22.25.21.48	- 3.50	
	30	28 Cephei	B	...	...	...	...	...	...	36.9	48.8	1.1	14.1	22.26.1.05		59.12				22.26.0.07	- 4.36	
	31	ζ Pegasi	B	3.5	6.0	8.5	13.7	16.1	18.6	26.1	28.5	31.2	34.0	22.36.18.66		19.17	20.18	1.01		22.36.20.12	- 3.73	
	32	η Pegasi	B	52.8	55.6	58.5	4.0	6.9	9.9	18.1	21.1	24.0	26.9	22.38.9.82		10.11				22.38.11.06	- 3.55	
	33	Groombridge3960	B	...	...	...	...	...	...	43.1	48.6	54.1	59.9	22.57.27.33		26.89				22.57.27.84	- 3.73	
	34	Groombridge3968	B	...	5.4	10.9	21.6	27.1	32.8	48.3	53.8	59.4	...	22.58.32.52		32.08				22.58.33.03	- 3.74	
	35	2 Cassiopeiae.....	B	...	...	...	10.4	15.3	20.1	34.1	39.1	43.9	48.7	23.5.20.13		19.85				23.5.20.80	- 3.68	
	36	Lalande 45491 ...	B	...	...	...	...	...	...	57.5	0.9	4.5	8.0	23.8.47.71		47.81				23.8.48.76	- 3.56	
	37	Bradley 3084 ...	B	36.0	40.1	44.2	52.1	56.2	0.8	12.6	16.7	20.7	24.9	23.12.0.49		0.38				23.12.1.33	- 3.62	
	38	B.D.+52° No.3414	B	50.1	54.0	58.4	...	...	14.5	...	30.3	34.6	38.9	23.13.14.44		14.33				23.13.15.28	- 3.62	
Aug. 21	39	⊙ 1 L.....	R	...	...	...	...	...	4.9	7.7	10.0	12.8	10.2.57.53	[+ 11.46]	2.78				0.78	10.4.3.57		
	40	⊙ 2 L.....	R	...	54.3	57.1	2.0	4.3	7.2	14.4	17.1	19.8	...	10.5.7.08				[+ 0.03]				
	41	89 Herculis	R	58.7	1.3	4.0	9.6	12.3	15.1	23.2	26.0	28.9	31.6	17.51.15.11		15.43	16.24	0.81		.....		
	42	72 Ophiuchi	R	12.0	14.3	16.9	21.9	24.2	27.0	34.1	36.8	39.4	42.0	18.2.26.90		27.39	28.26	0.87		.....		
	43	δ Ursæ Minoris...	R	2.3	16.1	26.6	38.9	50.7	1.9	12.6	24.4	33.6	44.0	18.5.53.43		45.60	45.91	0.31		.....		
	44	1 Aquilæ	R	...	22.5	25.1	30.0	32.4	35.2	42.6	45.0	47.4	...	18.29.35.08		35.76				18.29.36.56	- 3.65	
	45	2 Aquilæ	R	21.7	24.1	26.7	31.8	34.3	36.9	44.1	46.6	49.3	52.0	18.36.36.79		37.62	38.41	0.79		.....		
	46	Cephei 51 S.P. ...	R	45.4	27.5	40.9	54.5	5.7	21.8	38.2	51.0	59.1	8.4	18.51.43.34		53.97	54.46	0.49		.....		
	47	α Vulpeculæ	R	8.3	11.1	13.8	19.3	22.0	24.6	32.8	35.5	38.2	40.9	19.24.24.69		25.03	25.84	0.81		.....		
	48	α Vulpeculæ(E&E)	R	18.0	34.3	...	...	...	39.1	55.7	...	...	...	19.24.24.59		24.93	25.84	0.91		.....		
	49	λ Ursæ Minoris...	R	30.9	44.0	55.0	5.0	17.8	30.0	9.6	20.6	31.7	43.3	19.27.16.49		49.20	50.28	1.08		.....		
	50	γ Aquilæ	R	6.0	8.4	11.1	16.0	18.5	21.1	28.5	31.1	33.6	36.1	19.41.21.08		21.57	22.38	0.81		.....		
	51	γ Aquilæ....(E&E)	R	18.0	33.0	...	...	...	33.1	48.3	...	...	...	19.41.20.91		21.40	22.38	0.98		.....		
	52	δ Sagittarii	R	20.0	22.8	25.9	31.2	34.1	36.9	44.9	47.6	50.8	53.6	19.50.36.82		37.72				19.50.38.52	- 4.54	
	53	Radcliffe2020 S.P.	R	...	...	...	...	...	39.4	13.6	22.7	0.0	35.5	19.51.2.47		10.03				7.51.10.83	- 4.67	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 5, 48, and 51, — 41^s.67 : — 42^s.24 : and — 42^s.24.

- 3, 25, 26, 27, 36, 38. Observed in dark field with wires illuminated. 28, 29, 30, 31, 32. Very faint; cloudy.
43. Observed over wire S with the transit-micrometer set to readings 35^s.796, 35^s.725, 35^s.983, 36^s.268, 36^s.551, 36^s.823, 37^s.091, 37^s.365, 37^s.578, 37^s.814.
45. Very diffused; windy.
46. Cloudy. Observed over wire U with the transit-micrometer set to readings 34^s.995, 34^s.143, 33^s.877, 33^s.610, 33^s.382, 33^s.063, 32^s.747, 32^s.496, 32^s.326, 32^s.154.
49. Observed over wire T with the transit-micrometer set to readings 35^s.706, 35^s.794, 35^s.859, 35^s.964, 36^s.041, 36^s.137, 36^s.404, 36^s.489, 36^s.571, 36^s.653.

1896...58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[139]

MONTH AND DAY	No. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Aug. 21	1	θ Aquilæ	R	43.8	46.2	48.9	53.8	56.1	58.6	6.0	8.5	11.1	13.6	20. 5. 58.70	+ 1.37	59.30	0.09	0.79	0.78	.....	
	2	β ³ Cygni	R	...	25.2	28.1	...	...	40.7	...	52.9	56.1	...	20. 10. 40.64	(- 2.09)	40.82		[+ 0.03]	20. 10. 41.63	- 3.17	
	3	Groombridge 194	R	...	...	...	...	...	54.4	58.5	3.0	7.3	20. 25. 41.93	[+ 11.46]	41.79				20. 25. 42.60	- 2.98	
	4	17 Capricorni	R	55.2	57.9	0.4	5.9	8.4	11.3	...	24.3	27.1	20. 40. 11.16		12.00				20. 40. 12.81	- 4.44	
	5	19 Capricorni	R	42.4	45.2	47.5	52.8	55.5	58.0	5.7	8.3	11.1	14.0	20. 48. 58.09		58.89			20. 48. 59.70	- 4.34	
	6	θ Capricorni	R	53.3	55.7	58.3	3.6	6.1	8.8	16.4	19.0	21.7	24.4	21. 0. 8.77		9.56	10.40	0.84	.....		
	7	δ 1 L.	R	53.8	56.1	59.0	4.4	7.1	10.0	17.7	20.5	22.9	25.8	21. 6. 9.77		10.57			21. 7. 17.37		
	8	ι Capricorni	R	...	17.0	19.9	...	...	...	40.4	43.1	...	21. 16. 30.15		30.94	31.65	0.71	.....			
	9	β Aquarii	WB	52.4	54.9	57.4	2.4	4.9	7.3	14.8	17.3	19.7	22.2	21. 26. 7.37		8.02	9.05	1.03	1.00	.....	
	10	ξ Aquarii	WB	0.1	2.8	5.3	10.2	12.8	15.3	22.7	25.1	27.9	30.4	21. 32. 15.30		15.98	17.00	1.02	.....		
	11	α Capricorni	R	40.9	43.1	46.0	51.1	53.8	56.2	3.9	6.3	8.9	11.5	21. 35. 56.21		56.95		0.78	21. 35. 57.76	- 4.24	
	12	α Aquarii	R	14.1	16.7	19.1	24.0	26.6	29.0	36.3	38.8	41.4	43.9	22. 0. 29.03		29.63	30.42	0.79	.....		
	13	ι Pegasi	R	56.2	58.9	1.6	6.9	9.8	12.5	20.5	23.4	26.1	28.9	22. 2. 12.52		12.85	13.70	0.85	.....		
	14	Groombridge 3719	R	...	41.4	48.9	2.8	10.0	17.4	38.0	45.5	52.8	...	22. 8. 17.24		16.45			22. 8. 17.26	- 3.63	
	15	* N.P.D. 20° 25'	R	37.3	44.1	51.5	5.7	12.8	20.3	40.9	48.0	55.4	2.5	22. 8. 19.96		19.17			22. 8. 19.98	- 3.63	
	16	Castor	HF	41.5	44.1	47.5	53.1	56.0	58.9	7.6	10.5	13.4	16.4	7. 27. 58.94	[+ 11.00]	59.17	0.07	0.90	0.85	7. 28. 0.01	- 2.20
	17	Procyon	HF	36.9	39.4	42.0	46.9	49.3	51.8	59.1	1.7	4.1	6.8	7. 33. 51.84		52.36	53.22	0.86	[- 0.02]	7. 33. 53.20	- 1.67
	18	Pollux	HF	7.5	24.3	41.3	44.0	...	...	...	9.2	12.1	...	7. 38. 58.06		58.34	59.21	0.87		7. 38. 59.18	- 2.07
Aug. 22	19	⊙ 1 L.	HF	23.6	26.0	28.8	33.6	36.1	38.8	46.1	48.7	51.4	54.0	10. 6. 38.75						10. 7. 44.86	
	20	⊙ 2 L.	HF	33.2	35.8	38.2	43.4	45.9	48.1	55.9	58.3	0.9	3.6	10. 8. 48.37							
	21	η Ophiuchi	HF	11.0	13.6	16.1	21.4	24.0	26.6	34.1	36.6	39.3	42.0	17. 4. 26.51		27.24	28.03	0.79		17. 4. 28.08	- 3.32
	22	α ¹ Herculis	HF	...	...	...	50.6	53.2	55.8	3.2	5.8	8.4	11.1	17. 9. 55.75		56.17	57.08	0.91		17. 9. 57.01	- 2.82
	23	α ² Herculis	HF	...	...	...	50.9	53.6	56.0	3.5	6.0	8.5	11.3	17. 9. 55.99		56.41				17. 9. 57.25	- 2.82
	24	ξ Herculis	HF	...	...	33.8	39.4	42.2	45.3	53.3	56.1	...	...	17. 53. 45.07		45.34				17. 53. 46.18	- 2.76
	25	δ Ursæ Minoris	HF	45.2	56.2	5.0	16.0	25.6	33.7	43.0	50.6	59.5	7.0	18. 5. 51.64		44.11	45.53	1.42		.....	
	26	η Serpentis	HF	42.8	45.1	47.8	52.6	55.1	57.7	5.0	7.5	10.0	12.7	18. 15. 57.67		58.27	59.06	0.79		18. 15. 59.10	- 3.43
	27	2 Aquilæ	HF	22.0	24.3	27.0	31.9	34.2	36.9	44.2	46.8	49.4	52.0	18. 36. 36.91		37.57	38.40	0.83		18. 36. 38.40	- 3.69
	28	6 Aquilæ	HF	26.4	29.1	31.6	36.4	39.0	41.6	48.9	51.4	53.9	56.4	18. 41. 41.51		42.13				18. 41. 42.96	- 3.61
	29	Cephei 51 S.P.	HF	8.5	21.8	32.7	42.5	51.9	1.2	11.9	22.0	30.0	1.7	18. 51. 43.25		53.47	54.89	1.42		.....	
	30	113 Herculis	HF	7.2	10.0	12.8	18.0	20.7	23.4	31.4	34.0	36.6	39.5	18. 50. 23.40		23.75				18. 50. 24.58	- 3.11
	31	ζ Aquilæ	R	24.3	26.9	29.5	34.4	37.0	39.5	47.1	49.8	52.2	54.9	19. 0. 39.60		40.26	41.06	0.80		19. 0. 41.09	- 3.30
	32	ω Aquilæ	HF	43.0	45.5	48.1	53.1	55.6	58.1	5.6	8.1	10.6	13.2	19. 12. 58.13		58.59	59.44	0.85		19. 12. 59.42	- 3.39
	33	δ Aquilæ	HA	2.4	4.9	7.4	12.2	14.8	17.3	24.8	27.2	29.5	32.2	19. 20. 17.31		17.86	18.84	0.98	0.99	.....	
	34	α Vulpeculæ	HA	8.1	10.9	13.8	19.1	21.8	24.5	32.7	35.3	38.0	40.9	19. 24. 24.55		24.87	25.83	0.96		.....	
	35	32 Vulpeculæ	HF	53.1	55.9	58.8	4.1	6.9	10.0	18.1	21.0	24.1	26.9	20. 50. 9.92		10.20	11.02	0.82	0.85	20. 50. 11.03	- 3.40
	36	Bradley 2832	HF	...	...	...	...	36.0	59.0	6.9	30.1	53.2	16.6	21. 21. 59.15		55.27				21. 21. 56.10	- 3.99
	37	Lalande 41990	HF	...	42.0	45.5	53.0	56.6	0.5	11.4	15.0	18.7	...	21. 28. 0.41		0.41				21. 28. 1.24	- 3.31
	38	δ 1 L.	HF	45.8	...	...	...	...	...	8.9	11.5	14.1	16.7	21. 55. 1.23		1.94				21. 56. 6.52	
Aug. 25	39	⊙ 1 L.	H	25.2	...	30.1	35.2	37.8	40.3	47.9	50.4	...	55.6	10. 17. 40.35	+ 1.33				0.65	10. 18. 46.22	
	40	⊙ 2 L.	H	...	37.1	...	44.9	...	49.9	57.2	59.9	...	...	10. 19. 49.86	(- 2.54)				[- 0.05]		
	41	2 Aquilæ	H	22.1	24.5	27.1	32.0	34.4	37.2	...	...	...	...	18. 36. 37.07	[+ 11.82]	37.76	38.36	0.60		.....	
	42	β ¹ Lyrae	H	58.8	1.6	4.6	10.5	13.5	16.5	25.2	28.1	31.1	34.1	18. 46. 16.44		16.64	17.23	0.59		.....	
	43	Cephei 51 S.P.	H	51.9	0.5	9.1	32.6	40.9	53.8	1.9	17.1	38.6	46.0	18. 51. 44.02		55.50	56.08	0.58		.....	
	44	ζ Aquilæ	H	24.8	27.1	29.8	34.9	37.5	40.0	47.5	50.0	52.6	55.1	19. 0. 39.97		40.42	41.03	0.61		.....	
	45	ω Aquilæ	R	42.9	...	48.0	53.1	55.6	58.0	5.4	8.0	...	13.1	19. 12. 58.05		58.78	59.41	0.63		.....	
	46	Groombridge 1359 S.P.	H	...	...	20.8	46.0	59.9	25.6	51.2	41.2	...	...	19. 52. 0.28		6.21				7. 52. 6.82	- 4.70
	47	β ² Cygni	H	22.2	25.5	...	...	...	...	...	...	...	...	20. 10. 40.77		40.92				20. 10. 41.53	- 3.13
	48	ρ Capricorni	H	...	45.5	48.1	53.5	56.0	58.6	6.2	8.9	11.4	...	20. 22. 58.58		59.38	59.99	0.61		.....	
	49	ρ Capricorni (H&E)	H	55.4	11.4	27.1	...	58.2	13.5	29.3	...	...	...	20. 22. 57.96		58.76	59.99	1.23		.....	
	50	Pallas	H	...	55.9	58.3	3.3	5.9	8.4	...	...	...	...	21. 7. 8.39		8.88				21. 7. 9.49	
	51	Lalande 41897	H	28.0	31.8	...	...	...	...	59.9	3.4	6.9	10.5	21. 25. 49.34		49.33				21. 25. 49.94	- 3.31

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 49, — 44^s.55.
Corrections for passage of Semidiameter, Nos. 7 and 38, + 65^s.96 and + 63^s.73.

- 3, 50. Observed in dark field with wires illuminated.
- 4, 7, 8, 18, 35, 36, 40. Cloudy.
- 5, 6. Very faint; cloudy.
7. Limb boiling violently. Correction to R.A. on true meridian, + 0^s.03.
18. Observed over wires M, N, O, P, V and W.
25. Observed over wire O with the transit-micrometer set to readings 34^s.265, 34^s.530, 34^s.724, 35^s.028, 35^s.250, 35^s.440, 35^s.672, 35^s.834, 36^s.042, 36^s.228.
29. Observed over wire X with the transit-micrometer set to readings 36^s.210, 35^s.946, 35^s.710, 35^s.531, 35^s.352, 35^s.163, 34^s.940, 34^s.749, 34^s.606, 33^s.964.
38. Correction to R.A. on true meridian, + 0^s.02.
- 38, 47. Very cloudy.
43. Observed over wire Q with the transit-micrometer set to readings 37^s.082, 36^s.880, 36^s.733, 36^s.288, 36^s.112, 35^s.860, 35^s.572, 35^s.391, 34^s.959, 34^s.822.
47. Observed over wires O, P and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1895.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m	s		h	m	s
s	s	s	s	s	s	s	s	s	s	h	m	s	s	s	s	s	s	s									
Aug. 26	1	Venus 2 L.	AC	...	...	...	...	...	3.4	10.8	13.2	16.0	18.3	11. 14. 3.42	+ 1.33		3.97			0.82	11. 14. 4.39						
	2	β Lyræ	AC	...	...	...	...	...	...	...	28.0	31.1	51.9	18. 46. 16.44	(- 1.29)		16.72	17.22	0.50	[- 0.05]	.....						
	3	γ Aquilæ	AC	6.0	8.4	10.9	15.9	18.5	21.0	28.3	30.7	33.5	36.0	19. 41. 20.98	[+ 10.93]		21.49	22.35	0.86		.....						
	4	α Aquilæ R.	AC	29.7	32.0	34.7	39.5	42.0	44.4	...	...	...	...	19. 45. 44.56			45.21	46.05	0.84		.....						
	5	θ Aquilæ	AC	43.8	46.2	48.9	53.7	56.0	58.7	6.0	8.4	10.9	13.5	20. 5. 58.65			59.27	0.07	0.80		.....						
	6	υ Cygni.....	AC	21.8	24.9	28.0	34.1	37.1	40.2	...	...	...	...	20. 10. 40.26			40.50				20. 10. 41.28	- 3.12					
	7	Piazzi XX. 61 ...	AC	...	...	...	42.3	45.3	48.2	57.5	0.5	3.6	6.9	20. 10. 48.39			48.63				20. 10. 49.41	- 3.12					
	8	κ Cephei	AC	...	...	...	3.2	15.0	26.4	0.0	11.4	22.8	34.2	20. 12. 26.44			25.03				20. 12. 25.81	- 2.15					
	9	* N.P.D. 12° 37' ...	AC	...	...	...	...	16.7	28.0	1.9	13.1	24.5	36.1	20. 12. 28.25			26.84				20. 12. 27.62	- 2.15					
	10	Oeltz. Arg. (N.) 20678	AC	27.3	31.1	35.6	44.0	48.2	52.6	4.9	9.2	13.3	17.8	20. 27. 52.48			52.42				20. 27. 53.20	- 2.92					
	11	α Delphini.....	W	35.2	37.9	40.4	45.5	48.1	50.8	58.4	0.9	3.6	6.1	20. 34. 50.73			51.19	51.95	0.76	0.82	.....						
	12	Piazzi XX. 298...	AC	4.0	7.0	9.9	15.1	17.8	20.7	...	...	...	...	20. 42. 20.50			21.33			0.82	20. 42. 22.11	- 4.49					
	13	μ Aquarii	W	50.2	52.9	...	0.1	...	5.3	12.7	15.1	...	20.1	20. 47. 5.24			5.93	6.72	0.79	0.82	.....						
	14	33 Vulpeculæ.....	AC	...	26.3	28.9	34.1	36.9	39.8	47.5	50.2	52.9	...	20. 53. 39.63			40.04			0.82	20. 53. 40.82	- 3.49					
	15	Piazzi XX. 417...	AC	...	13.4	16.1	21.1	24.0	26.8	34.8	...	...	...	20. 54. 26.73			27.14				20. 54. 27.92	- 3.49					
	16	ζ Cygni	AC	...	18.7	21.6	27.1	30.0	33.0	41.3	44.2	47.1	...	21. 8. 32.93			33.25	33.99	0.74		.....						
	17	ζ Cygni (E&E)	AC	26.8	43.9	0.9	...	35.2	52.0	9.2	...	...	...	21. 8. 32.88			33.20	33.99	0.79		.....						
	18	Groombridge 3510	AC	...	...	17.5	26.0	30.5	35.2	...	...	...	...	21. 32. 35.28			35.15				21. 32. 35.93	- 3.27					
	19	Groombridge 3513	AC	...	...	...	...	...	...	7.1	11.8	16.0	20.9	21. 32. 53.67			53.54				21. 32. 54.32	- 3.27					
	20	44 Piscium	WB	51.7	54.1	56.8	1.5	4.0	6.6	14.0	16.4	18.9	21.5	0. 20. 6.59			7.18	7.96	0.78	0.78	.....						
	21	51 Piscium	WB	49.4	51.9	54.1	58.9	...	...	...	...	...	...	0. 27. 4.16			4.71			0.79	0. 27. 5.49	- 3.69					
	22	δ 2 L.	WB	...	...	...	...	...	0.6	8.0	10.6	13.2	15.8	0. 55. 0.49			1.00				0. 53. 59.93	- 2.33					
	23	Castor	J	...	...	...	...	...	59.0	7.8	10.7	13.8	16.7	7. 27. 59.16			59.44	0.20	0.76		7. 28. 0.21	- 2.33					
	24	Procyon.....	J	...	...	...	...	...	52.0	59.4	1.9	4.2	6.9	7. 33. 52.00			52.55	53.33	0.78		7. 33. 53.32	- 1.78					
	25	Pollux	J	41.4	44.0	47.0	52.5	55.3	58.1	6.4	9.4	12.1	15.1	7. 38. 58.17			58.51	59.34	0.83		7. 38. 59.28	- 2.20					
Aug. 27	26	Spica	J	28.0	30.5	33.1	38.0	40.7	43.1	50.7	53.1	55.5	58.1	13. 19. 43.12			43.82	44.55	0.73		13. 19. 44.58	- 1.78					
	27	Polaris S.P.	J	16.6	22.2	25.5	29.7	34.2	38.1	43.6	51.1	56.0	0.5	13. 21. 9.31			29.71	32.10	2.39		1. 21. 30.47	- 38.25					
	28	Arcturus	J	39.9	42.5	45.3	50.5	52.9	55.8	3.4	6.1	8.8	11.5	14. 10. 55.71			56.13	56.91	0.78		14. 10. 56.89	- 1.88					
	29	α Ophiuchi	B	...	55.4	58.0	2.9	5.4	...	...	...	...	38.3	17. 30. 8.05			8.54	9.22	0.68	0.81	17. 30. 9.31	- 2.87					
	30	α Ophiuchi (E&E)	B	8.0	23.2	...	...	...	23.9	39.1	...	...	...	17. 30. 8.05			8.54	9.22	0.68		.....						
	31	β Ophiuchi	B	...	...	...	...	...	29.1	31.8	34.0	36.5	51.5	17. 38. 21.79			22.35	23.10	0.75		17. 38. 23.12	- 3.06					
	32	μ Herculis.....	B	8.0	10.8	13.6	19.2	22.0	24.9	33.0	36.0	38.7	41.7	17. 42. 24.83			25.17	25.87	0.70		17. 42. 25.94	- 2.63					
	33	μ Herculis (E&E)	B	20.1	36.9	53.5	10.4	27.1	43.8	0.6	...	...	...	17. 42. 24.83			25.16	25.87	0.71		.....						
	34	δ Ursæ Minoris...	J	51.1	57.2	2.1	8.2	12.8	16.9	22.6	27.8	32.1	38.6	18. 5. 50.21			43.42			0.79	18. 5. 44.17	+ 6.90					
	35	η Serpentis R.	J	42.9	45.2	47.8	52.5	55.0	57.6	...	...	...	...	18. 15. 57.61			58.34	59.00	0.66		18. 15. 59.09	- 3.37					
	36	Piazzi XVIII. 100	J	...	...	...	13.4	16.0	18.8	26.9	29.5	32.1	35.0	18. 25. 18.80			19.19				18. 25. 19.94	- 2.91					
	37	α Lyræ	J	7.8	10.9	14.1	20.1	23.4	26.8	36.1	39.2	42.1	45.8	18. 33. 26.68			26.89	27.66	0.77		18. 33. 27.64	- 2.65					
	38	Groombridge 2719	J	29.9	38.8	47.9	5.8	14.2	23.8	...	...	...	...	18. 48. 23.60			22.63				18. 48. 23.38	- 1.25					
	39	Cephei 51 S.P. ...	J	4.0	10.7	16.1	29.5	33.8	37.8	43.1	46.9	50.6	55.8	18. 51. 46.65			56.04				6. 51. 56.79	- 11.52					
	40	ε Aquilæ	J	...	...	...	50.9	53.4	56.1	3.5	6.1	8.9	11.4	18. 54. 56.05			56.52	57.29	0.77		18. 54. 57.27	- 3.20					
	41	12 Aquilæ	J	54.9	57.3	0.0	4.8	7.1	9.9	17.1	19.8	22.1	24.8	18. 56. 9.82			10.47				18. 56. 11.22	- 3.65					
	42	γ Sagittarii	J	12.6	15.4	18.1	23.8	26.5	29.4	37.7	40.3	43.3	46.2	19. 0. 29.37			30.25				19. 0. 31.00	- 4.31					
	43	Piazzi XIX. 8 ...	J	...	1.0	4.1	10.5	13.8	17.0	26.2	29.4	32.9	...	19. 4. 16.92			17.12				19. 4. 17.87	- 2.78					
	44	B.D.+31° No. 3485	J	32.2	35.1	37.9	43.6	46.5	49.6	58.0	1.0	4.0	7.0	19. 6. 49.54			49.83				19. 6. 50.58	- 2.95					
	45	22 Aquilæ	J	9.4	12.0	14.5	19.1	22.0	24.4	...	...	...	...	19. 11. 24.35			24.91				19. 11. 25.66	- 3.48					
	46	1 Vulpeculæ.....	J	...	...	...	41.3	44.0	46.8	54.5	57.2	...	...	19. 11. 46.74			47.14				19. 11. 47.89	- 3.15					
	47	A Aquilæ	J	34.9	37.6	40.2	45.1	47.6	50.3	...	...	...	...	19. 14. 50.22			50.71				19. 14. 51.46	- 3.34					
	48	3 Vulpeculæ.....	J	20.8	23.4	26.3	31.8	34.5	37.4	45.5	48.2	51.1	54.0	19. 18. 37.34			37.70				19. 18. 38.45	- 3.09					
	49	δ Aquilæ	S	2.8	5.4	7.8	12.7	15.3	17.8	25.0	27.5	30.0	32.5	19. 20. 17.72			18.30	18.80	0.50	0.50	.....						
	50	ν Aquilæ	J	...	1.7	4.2	9.2	11.6	14.1	21.4	24.0	26.5	...	19. 21. 14.14			14.75			0.79	19. 21. 15.50	- 3.61					
51	α Vulpeculæ.....	J	8.3	11.0	13.8	...	...	24.8	...	35.4	38.1	41.0	19. 24. 24.66			25.03	25.78	0.75		19. 24. 25.78	- 3.14						
52	ι Cygni	J	43.1	46.9	51.2	58.7	2.9	6.9	18.6	22.9	27.0	31.0	19. 27. 6.98			6.98				19. 27. 7.73	- 2.61						
53	h² Sagittarii	S	...	12.0	14.9	20.1	23.0	25.9	33.9	36.6	39.4	...	19. 30. 25.78			26.64	27.06	0.42	0.50	.....							

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 17, 30, and 33, — 45^m15 : — 45^m55 : and — 45^m55.
Correction for passage of Semidiameter, Nos. 1 and 22, — 0^s.38 and — 61^s.87.

1. Very faint.

2. Observed over wires V, W and Y.

10, 12. Observed in dark field with wires illuminated.

22. Very cloudy. Correction to R.A. on true meridian, + 0^s.02.

24, 38. Very faint; cloudy.

27. Observed over wire U with the transit-micrometer set to readings 35^m211, 35^m175, 35^m133, 35^m100, 35^m058, 35^m029, 34^m980, 34^m930, 34^m883, 34^m833.

29. Observed over wires P, Q, R, S and Y.

29, 31, 40, 47, 53. Cloudy.

31. Observed over wires U, V, W, X and Y.

34. Observed over wire R with the transit-micrometer set to readings 34^m770, 34^m770, 34^m890, 35^m056, 35^m178, 35^m287, 35^m430, 34^m498, 34^m638, 34^m753, 34^m938.

39. Observed over wire U with the transit-m

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 8, — 45^s.64.

11. Cloudy. Observed in dark field with wires illuminated.

53. Observed over wire R with the transit-micrometer set to readings $35^{\circ}436$, $35^{\circ}520$, $35^{\circ}566$, $35^{\circ}605$, $35^{\circ}720$, $35^{\circ}765$, $35^{\circ}810$, $35^{\circ}891$, $35^{\circ}940$, $35^{\circ}982$.

1898G04MM.583...1C

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TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	{Azimuth}.								
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	h m s	s									
Aug. 27	1	Piazzi I. 87	B	...	...	...	...	59.9	2.5	10.0	12.3	14.9	17.4	1. 23. 2.50	+ 1.33	3.04			0.76			1. 23. 3.80	-	3.54
	2	μ Piscium	B	...	33.9	36.5	41.3	43.8	46.2	53.8	56.2	58.8	...	1. 24. 46.36	(- 1.29)	46.91			[- 0.05]			1. 24. 47.67	-	3.55
	3	Groombridge 330	B	...	...	...	...	...	...	...	3.1	9.5	16.1	23.2	1. 26. 43.29	[+ 1.0.93]	42.75					1. 26. 43.51	-	4.82
	4	Groombridge 346	B	39.8	43.4	47.0	54.0	57.7	1.3	12.0	15.4	19.1	22.9	1. 31. 1.31		1.40						1. 31. 2.16	-	3.86
	5	Groombridge 353	B	49.1	52.5	...	...	3.1	6.8	10.1	20.4	...	27.8	1. 33. 10.19		10.31						1. 33. 11.07	-	3.83
	6	Groombridge 356	B	58.0	1.4	4.9	12.0	15.6	19.1	29.5	32.9	36.5	40.1	1. 33. 19.05		19.17						1. 33. 19.93	-	3.84
	7	ν Piscium	B	48.2	50.8	53.3	58.1	0.8	3.1	10.5	13.0	15.4	18.0	1. 36. 3.16		3.69	4.53	0.84				1. 36. 4.45	-	3.49
	8	δ 2 L.	B	2.3	4.9	7.4	12.7	15.2	18.0	25.6	28.4	31.0	33.6	1. 40. 17.95		18.42						1. 39. 15.97	-	
	9	Bradley 236	B	...	...	...	...	...	...	...	52.6	55.3	57.9	0.5	1. 42. 45.06		45.51					1. 42. 46.27	-	3.51
	10	Groombridge 385	B	...	...	24.5	32.4	36.9	41.1	53.6	58.0	...	...	1. 44. 41.16		41.10						1. 44. 41.86	-	4.08
	11	Groombridge 386	B	29.1	33.2	37.6	46.0	50.1	54.5	7.1	11.3	15.6	20.1	1. 44. 54.52		54.46						1. 44. 55.22	-	4.08
	12	γ Arietis	B	...	51.7	54.5	59.8	2.6	5.3	13.1	16.0	18.7	...	1. 50. 5.26		5.65						1. 50. 6.41	-	3.53
	13	Groombridge 414	B	...	...	44.8	51.0	54.4	57.8	7.4	10.8	...	...	1. 50. 57.77		57.95						1. 50. 58.71	-	3.75
	14	ε Arietis	B	...	...	...	...	37.1	39.6	42.2	50.0	52.5	55.1	1. 51. 42.28		42.72						1. 51. 43.48	-	3.49
	15	ι 12 Piscium	B	31.8	34.1	36.7	41.5	44.0	46.6	53.9	56.3	58.9	1.4	1. 54. 46.56		47.14						1. 54. 47.90	-	3.42
	16	ε Trianguli	B	38.1	41.1	44.0	49.9	52.9	59.9	4.6	7.5	10.4	13.5	1. 56. 55.83		56.12						1. 56. 56.88	-	3.60
	17	Groombridge 430	B	...	...	...	...	...	...	34.5	12.7	25.1	38.1	1. 57. 34.64		32.98						1. 57. 33.74	-	6.96
	18	α Arietis	B	4.9	7.4	10.1	15.4	18.1	20.9	28.9	31.5	34.1	36.9	2. 1. 20.86		21.26	22.05	0.79				2. 1. 22.02	-	3.51
	19	B.D. + 52° No. 522	B	...	...	...	...	22.7	27.0	38.8	43.1	47.1	51.4	2. 2. 26.88		26.86						2. 2. 27.62	-	4.02
	20	Groombridge 457	B	...	...	...	...	...	...	33.1	45.0	49.1	53.1	2. 2. 32.95		32.93						2. 2. 33.69	-	4.02
	21	B.D. + 73° No. 122	B	...	...	...	...	0.9	10.0	19.1	45.2	...	...	2. 6. 18.98		18.03						2. 6. 18.79	-	5.64
	22	Groombridge 481	B	...	...	...	...	...	19.6	29.4	32.8	36.0	39.5	2. 9. 19.57		19.73						2. 9. 20.49	-	3.74
	23	67 Ceti	B	34.7	37.1	39.7	44.6	47.0	49.5	57.0	59.5	2.0	4.5	2. 11. 49.60		50.26	51.00	0.74				2. 11. 51.02	-	3.31
	24	Groombridge 479	B	...	34.7	48.0	14.0	27.1	40.3	...	...	...	...	2. 13. 40.29		38.58						2. 13. 39.34	-	7.13
	25	Groombridge 478	B	...	36.8	50.6	16.4	29.9	43.4	...	...	...	...	2. 13. 43.08		41.36						2. 13. 42.12	-	7.15
	26	Groombridge 497	B	...	...	...	...	...	...	19.6	23.8	28.0	32.1	2. 14. 7.07		7.02						2. 14. 7.78	-	4.06
	27	γ Yr. Cat. (1860) 154	B	55.8	2.1	8.4	...	...	...	...	...	58.8	4.9	2. 20. 33.60		33.12						2. 20. 33.88	-	4.80
	28	Bradley 332	B	...	...	...	...	21.5	27.6	34.1	52.9	...	...	2. 20. 34.16		33.68						2. 20. 34.44	-	4.80
	29	γ Yr. Cat. (1860) 156	B	57.1	3.5	10.0	...	...	...	...	...	0.0	6.4	2. 20. 35.05		34.57						2. 20. 35.33	-	4.80
	30	Lalande P. 404	B	...	...	...	...	...	...	23.3	29.5	36.1	42.6	2. 21. 4.68		4.20						2. 21. 4.96	-	4.81
	31	Oeltz. Arg. (N.) 2766	B	...	...	...	...	...	...	56.9	3.1	9.4	16.0	2. 21. 38.17		37.69						2. 21. 38.45	-	4.81
	32	Groombridge 521	B	2.0	8.1	14.4	27.0	33.2	39.9	58.3	4.9	11.2	17.6	2. 25. 39.75		39.27						2. 25. 40.02	-	4.81
	33	Bradley 344	B	21.4	37.4	53.3	24.6	40.4	56.7	43.1	59.3	15.1	31.3	2. 32. 56.50		54.29						2. 32. 55.04	-	8.14
	34	Groombridge 543	B	...	...	...	...	...	2.0	6.0	16.8	20.5	24.2	2. 36. 5.91		5.98						2. 36. 6.73	-	3.84
	35	γ Ceti	B	...	...	...	...	...	51.5	53.9	56.3	3.6	6.1	2. 37. 56.38		56.96						2. 37. 57.71	-	3.21
	36	Cephei 47	B	5.1	18.0	31.5	56.9	9.9	23.4	...	...	...	...	2. 52. 23.06		21.36						2. 52. 22.11	-	7.15
	37	ε Arietis	B	2.0	4.6	7.3	12.6	15.2	18.0	25.6	28.1	30.9	33.9	2. 53. 17.86		18.27	19.10	0.83				2. 53. 19.02	-	3.31
	38	α Ceti	B	37.4	40.0	42.4	47.3	49.9	52.3	59.6	2.1	4.6	7.1	2. 56. 52.31		52.88	53.64	0.76				2. 56. 53.63	-	3.14
	39	Groombridge 610	B	...	...	0.5	4.7	12.8	16.7	20.8	32.6	36.6	40.6	3. 0. 20.74		20.73						3. 0. 21.48	-	3.92
	40	Groombridge 611	B	14.8	18.8	22.8	30.8	34.8	38.9	50.6	54.7	58.6	2.8	3. 0. 38.82		38.81						3. 0. 39.56	-	3.92
	41	Groombridge 594	B	...	...	...	...	...	...	42.5	56.6	10.5	25.1	3. 1. 1.69		59.82						3. 1. 0.57	-	7.47
	42	δ Arietis	B	...	20.8	32.4	37.6	40.2	42.9	50.8	53.2	56.0	...	3. 5. 42.91		43.33	44.05	0.72				3. 5. 44.08	-	3.26
	43	Groombridge 638	B	2.2	6.0	9.9	17.4	21.1	25.1	36.2	40.0	44.0	47.8	3. 11. 25.03		25.08						3. 11. 25.83	-	3.82
	44	Groombridge 652	B	21.2	24.3	27.8	34.0	37.4	40.9	50.5	53.8	56.9	0.4	3. 16. 40.77		40.96						3. 16. 41.71	-	3.57
Aug. 28	45	Venus i L.	EB	54.2	56.8	59.2	4.2	6.6	9.3	16.6	19.1	21.7	24.1	11. 23. 9.22		9.77			0.64			11. 23. 10.76	-	
	46	α Lyrae	HA	7.9	10.9	14.0	20.1	23.5	26.8	36.1	39.3	42.3	45.7	18. 33. 26.71		26.92	27.64	0.72		0.74		.....	-	
	47	β Lyrae	HA	58.5	1.5	4.5	10.2	13.4	16.1	25.0	28.0	30.9	34.0	18. 46. 16.25		16.53	17.18	0.65				.....	-	
	48	Groomb. 1359 S.P.	EB	21.6	26.9	32.0	37.3	42.5	48.6	53.8	58.6	2.0	...	19. 52. 2.24		7.14			0.64			7. 52. 7.73	-	5.25
	49	θ Aquilæ	EB	44.0	46.5	49.0	54.0	56.1	59.0	6.1	8.6	11.1	13.9	20. 5. 58.87		59.49	0.06	0.57				.....	-	
	50	θ Aquilæ... (E&E)	EB	0.3	15.0	...	...	...	14.1	29.1	...	...	...	20. 5. 58.73		59.35	0.06	0.71				.....	-	
	51	B.D. + 36° No. 3987	EB	52.1	55.4	58.5	4.6	7.9	10.9	...	...	...	...	20. 13. 10.88		11.11						20. 13. 11.70	-	3.10
	52	Bradley 2667	EB	...	5.1	7.8	12.7	15.2	17.9	25.6	28.0	30.6	...	20. 34. 17.91		18.37						20. 34. 18.96	-	3.53
53	α Delphini	EB	35.5	38.0	40.5	45.7	48.1	50.9	58.6	1.1	3.7	6.2	20. 34. 50.87		51.33	51.94	0.61				.....	-		

Correction to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 50, — 45^m.95.
Corrections for passage of Semidiameter, Nos. 8 and 45, — 63^m.23 and + 0^m.38.

8. Correction to R.A. on true meridian, + 0^m.02.

19, 20, 21, 51. Observed in dark field with wires illuminated.

48. Observed over wire Q with the transit-micrometer set to readings 36^m.400, 36^m.200, 36^m.000, 35^m.800, 35^m.600, 35^m.400, 35^m.200, 35^m.000, 34^m.800.

52, 53. Very faint; cloudy.

MONTH AND DAY.	No. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
															Collimation.							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	[Azimuth].						
													h m s									
Aug. 28	1	Oeltz. Arg. (N.) 22563-4...	EB	4'8	9'2	13'9	23'0	27'6	32'0	45'6	49'9	54'8	59'9	21. 33. 32'14	+ 1'33	32'01			0'64	21. 33. 32'60	- 3'26	
	2	9 Pegasi	EB	22'2	24'9	27'6	32'5	35'1	38'1	45'5	48'1	50'6	53'4	21. 39. 37'84	(- 1'29)	38'28			[- 0'06]	21. 39. 38'87	- 3'67	
	3	Groombridge 3682	EB	59'9	4'9	10'0	20'2	25'1	30'2	45'4	50'2	55'4	0'6	22. 1. 30'27	[+ 10'93]	30'03				22. 1. 30'61	- 3'44	
	4	Groombridge 3727	EB	8'1	12'4	16'6	25'1	29'5	34'0	...	...	...	...	22. 10. 33'88		33'80				22. 10. 34'38	- 3'48	
	5	Radcliffe 5627 ...	EB	...	...	...	...	...	...	49'5	53'8	58'0	2'2	22. 10. 36'65		36'57				22. 10. 37'15	- 3'48	
	6	B.D. + 54° No. 2719	EB	...	...	...	...	...	40'0	44'4	48'7	14'2	40'1	22. 11. 22'91		22'83				22. 11. 23'41	- 3'48	
	7	Lalande F. 1657 S.P.	EB	48'8	56'8	3'5	21'6	27'9	33'0	56'0	1'4	6'9	13'5	22. 20. 0'40		5'77				10. 20. 6'35	+ 0'80	
	8	Groombridge 3805	EB	...	...	...	...	...	44'1	5'2	12'6	20'0	27'4	22. 26. 44'14		43'50				22. 26. 44'08	- 3'81	
	9	Groombridge 3827	EB	41'1	48'1	55'5	9'9	17'0	24'1	45'6	52'8	59'9	7'2	22. 30. 24'23		23'59				22. 30. 24'17	- 3'84	
	10	* N.P.D. 20° 12' ..	EB	42'2	49'2	56'8	11'1	18'1	25'1	46'9	53'9	1'1	8'5	22. 30. 25'40		24'76				22. 30. 25'34	- 3'84	
	11	Groombridge 3854	EB	42'5	46'8	51'0	59'3	3'2	7'5	19'8	24'0	28'1	32'3	22. 36. 7'51		7'47				22. 36. 8'05	- 3'59	
	12	Groombridge 3874	EB	...	...	...	51'2	54'9	59'1	10'6	14'5	18'6	22'6	22. 39. 59'05		59'06				22. 39. 59'64	- 3'60	
	13	78 Aquarii	EB	57'1	59'6	2'0	6'9	9'5	12'0	19'5	22'0	24'4	26'9	22. 49. 12'03		12'70				22. 49. 13'28	- 4'07	
	14	α Arietis	CD	5'1	7'6	10'2	15'6	18'2	21'1	29'1	31'9	34'5	37'3	2. 1. 21'10		21'50	22'08	0'58	0'60	.....	.....	
	15	15 Arietis	CD	...	...	43'8	48'9	...	54'0	1'9	4'5	7'1	9'9	2. 4. 54'16		54'58				2. 4. 55'17	- 3'49	
	16	67 Ceti	CD	34'9	37'2	39'9	44'7	47'2	49'8	57'1	59'8	2'1	4'8	2. 11. 49'79		50'45	51'03	0'58		.....	.....	
	17	Lalande 4258	CD	25'1	29'6	33'8	42'4	46'7	51'1	3'8	8'0	12'5	16'9	2. 13. 51'05		50'97				2. 13. 51'56	- 4'13	
	18	Oeltz. Arg. (N.) 2727	CD	...	...	...	...	...	...	51'7	55'6	59'6	3'5	2. 18. 40'41		40'44				2. 18. 41'03	- 3'96	
	19	δ 2 L.	CD	35'5	38'1	40'9	46'1	48'9	51'6	59'7	2'2	4'9	7'5	2. 27. 51'58		52'00				2. 26. 47'46	.....	
	20	δ Ceti	CD	56'1	58'8	1'1	6'0	8'5	11'0	18'4	20'9	23'4	26'0	2. 34. 11'06		11'67	12'28	0'61		.....	.....	
	21	μ Arietis	CD	16'5	19'3	22'0	27'1	29'8	32'4	40'1	42'9	45'4	48'0	2. 36. 32'39		32'81				2. 36. 33'40	- 3'39	
	22	Lalande F. 454 ...	CD	...	...	...	50'4	59'8	9'5	37'2	46'6	56'1	5'9	2. 45. 9'44		8'40				2. 45. 8'99	- 6'00	
	23	ε Arietis (S. Star)	CD	2'1	...	7'6	...	18'0	...	28'6	...	34'0	...	2. 53. 18'08		18'54	19'13	0'59		.....	.....	
	24	ε Arietis (N. Star)	CD	...	4'9	...	12'8	15'5	...	26'0	...	31'4	...	2. 53. 18'18		18'54	19'13	0'59		.....	.....	
	25	Regulus	S	35'5	38'0	40'6	45'6	48'1	50'6	58'2	0'6	3'4	6'0	10. 2. 50'70	[+ 11'19]	51'20	51'62	0'42	0'46	10. 2. 51'62	- 1'62	
Aug. 29	26	⊙ 1 L.	S	1'9	4'2	6'9	12'0	14'5	17'0	24'2	26'9	29'4	32'1	10. 32. 16'95		21'96				10. 33. 22'38	.....	
	27	⊙ 2 L.	S	10'6	13'3	15'9	20'9	23'3	26'0	33'4	36'0	38'5	41'0	10. 34. 25'93		57'42	57'69	0'27		.....	.....	
	28	Cephei 51 S.P.	S	58'0	14'3	39'6	48'0	59'5	8'4	22'2	31'2	43'9	51'9	18. 51. 47'79		59'03	59'37	0'34		19. 12. 59'41	- 3'32	
	29	ω Aquilæ	S	...	...	...	53'4	56'0	58'5	6'0	8'5	11'0	13'7	19. 12. 58'52		25'38	25'76	0'38		19. 24. 25'76	- 3'11	
	30	α Vulpeculæ	S	8'8	11'3	14'0	19'5	22'1	25'0	33'0	35'9	38'5	41'5	19. 24. 25'00		42'44	42'55	0'11		.....	.....	
	31	λ Ursæ Minoris...	S	50'5	8'6	26'1	41'6	59'4	19'2	44'1	59'4	9'1	23'7	19. 27. 6'89		45'64	46'02	0'38		19. 45. 46'02	- 3'52	
	32	α Aquilæ	S	...	...	...	40'0	42'5	45'1	52'5	55'0	57'5	0'2	19. 45. 45'10		37'93				19. 50. 37'03	.....	
	33	β Sagittarii	S	46'9	3'6	20'3	23'1	26'0	...	...	...	...	...	19. 50. 37'03		12'84				7. 51. 13'22	- 6'47	
	34	Radcliffe 2020 S.P.	S	6'1	13'8	20'3	27'0	34'3	41'5	48'7	...	...	...	19. 51. 5'97		24'84				20. 12. 25'22	- 1'96	
	35	κ Cephei	S	18'1	29'8	41'1	3'7	14'7	26'2	...	...	...	...	20. 12. 26'28		26'85				20. 12. 27'23	- 1'96	
	36	* N.P.D. 12° 37' ..	S	20'2	31'6	43'1	5'7	16'9	25'2	...	...	...	...	20. 12. 28'29		15'88				20. 13. 15'68	.....	
	37	Groombridge 3113	S	56'2	59'6	2'8	9'1	12'4	15'8	...	...	...	...	20. 13. 15'68		7'85				20. 14. 8'23	- 4'65	
	38	Lacaille 8409	S	...	...	...	...	...	15'2	18'2	21'1	24'0	20. 14. 6'93		37'96				20. 30. 38'33	- 3'05		
	39	* N.P.D. 45° 45' ..	S	17'3	20'3	23'9	30'9	34'4	38'0	48'0	51'4	55'1	58'5	20. 30. 37'83		9'78				8. 42. 10'15	- 3'14	
	40	Lalande F. 1355 S.P.	S	23'6	41'5	58'5	15'9	...	...	...	...	...	...	20. 42. 6'21		21'69				20. 42. 22'06	- 4'48	
	41	Piazzi XX. 298 ...	S	...	7'5	10'0	15'5	18'0	20'9	28'7	31'6	34'1	...	20. 42. 20'84		15'55				8. 49. 15'92	- 2'50	
	42	Groombridge 1483 S.P.	S	43'4	48'9	53'9	58'9	14'2	19'5	24'7	34'6	40'0	45'0	20. 49. 14'23		47'22				8. 55. 47'59	- 2'87	
	43	Carrington 1296 S.P.	S	...	...	...	...	...	...	30'7	17'5	41'9	5'8	20. 55. 42'43		33'61	33'98	0'37		21. 8. 33'98	- 3'41	
	44	ζ Cygni	S	16'1	19'0	22'0	27'5	30'2	33'4	41'7	44'6	47'5	50'4	21. 8. 33'28		40'86	41'29	0'43		21. 10. 41'23	- 3'81	
	45	α Equulei	S	25'4	27'9	30'3	35'3	37'9	40'2	47'7	50'1	52'6	55'1	21. 10. 40'29		15'41				21. 17. 15'78	- 3'10	
	46	6 Cephei	S	41'4	47'1	52'9	4'2	10'0	16'0	...	...	...	...	21. 17. 15'79		1'04				21. 28. 1'41	- 3'20	
	47	Oeltz. Arg. (N.) 22410	S	30'3	35'4	40'6	50'9	56'1	1'3	16'6	21'8	27'0	32'3	21. 28. 1'31		39'32				21. 33. 39'69	- 3'26	
	48	Oeltz. Arg. (N.) 22571	S	...	...	...	...	...	...	52'9	57'5	2'0	6'7	21. 33. 39'45		31'60				21. 34. 31'97	- 3'26	
	49	Groombridge 3526	S	...	...	...	22'5	27'0	31'7	45'3	...	...	...	21. 34. 31'73		57'01				21. 41. 57'38	- 4'43	
	50	B.D. - 20° No. 6293	S	40'4	...	45'9	50'9	53'6	56'1	4'0	6'4	...	12'0	21. 41. 56'20		23'00	23'29	0'29		21. 48. 23'37	- 3'57	
	51	16 Pegasi	S	6'1	8'9	11'8	17'0	19'9	22'6	30'7	33'5	36'2	39'2	21. 48. 22'63		46'12				21. 53. 46'49	- 3'40	
	52	Piazzi XXI. 360..	S	13'6	19'0	...	35'3	40'8	46'3	2'6	...	13'8	19'5	21. 53. 46'44		59'64				21. 58. 0'01	- 4'01	
	53	α Aquarii	S	44'1	46'6	49'1	54'0	56'5	59'1	6'2	8'7	11'3	14'0	21. 57. 59'00						.....	.....	

Correction for passage of Semidiameter, No. 19, — 65"14.

4, 5, 6. Observed in partially illuminated field.

7. Very faint; cloudy. Observed over wire S with the transit-micrometer set to readings 36"988, 36"723, 36"508, 35"870, 35"662, 35"468, 34"645, 34"450, 34"240, 34"008.

13, 39, 50. Very faint.

25. Very diffused.

28. Observed over wire T with the transit-micrometer set to readings 35"406, 35"097, 34"571, 34"402, 34"188, 34"018, 33"729, 33"564, 33"311, 33"151.

31. Observed over wire U with the transit-micrometer set to readings 34"671, 34"807, 34"931, 35"047, 35"171, 35"318, 35"422, 36"058, 36"122, 36"211.

33. Observed over wires M, N, O, P and Q.

34. Observed over wire Q with the transit-micrometer set to readings 36"200, 36"000, 35"800, 35"600, 35"400, 35"200, 35"000.

39, 42. Observed in dark field with wires illuminated.

46. Cloudy.

199800AM...58A...1C

[144]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE. AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
															Collimation.							
															(Level).							
															[Azimuth].							
I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h	m	s	"	s	s	s	s	h	m	s	s	
Aug. 29	1	Groombridge 3680	S	22.1	28.0	34.1	45.8	51.6	57.5	15.1	20.9	27.0	33.0	22. 1. 57.60	+ 1.33	57.19		0.46	22. 1. 57.56	- 3.48		
	2	32 Ursæ Maj. S.P.	S	53.1	59.4	5.3	11.5	28.9	35.1	41.1	52.9	59.0	5.0	22. 10. 29.04	(- 1.29)	30.53		[- 0.10]	10. 10. 30.90	- 1.83		
	3	Oeltz. Arg. (N.) 23923	S	30.5	34.9	39.4	48.0	52.2	56.9	...	...	...	...	22. 16. 56.79	[+ 11.19]	56.71			22. 16. 57.08	- 3.51		
	4	B.D. + 80° No. 721	S	...	...	...	...	...	...	12.0	28.0	43.7	59.9	22. 17. 25.66		23.40			22. 17. 23.77	- 4.63		
	5	Bradley 2997	S	...	...	...	...	...	...	47.5	19.8	53.3	27.8	22. 22. 9.66		4.28			22. 22. 4.65	- 6.91		
	6	Groombridge 3814	S	...	...	...	...	...	...	57.5	11.9	26.6	41.4	22. 26. 14.66		12.65			22. 26. 13.02	- 4.68		
	7	Groombridge 3842	S	1.1	8.2	15.7	29.5	36.9	44.0	5.1	12.2	19.4	26.9	22. 32. 44.01		43.36			22. 32. 43.73	- 3.86		
	8	Piazzi XXII. 186.	S	31.1	33.5	36.1	41.1	43.8	46.2	53.8	56.2	59.0	1.6	22. 35. 46.28		46.76			22. 35. 47.13	- 3.78		
	9	W. B. XXII. 783.	S	...	52.2	54.9	59.8	2.3	5.1	12.7	15.2	18.0	...	22. 39. 5.08		5.56			22. 39. 5.93	- 3.78		
	10	Groombridge 3885	S	...	...	...	51.5	56.0	0.8	14.2	...	...	...	22. 42. 0.73		0.59			22. 42. 0.96	- 3.66		
	11	Radcliffe 5828	S	36.4	41.1	45.8	...	...	...	...	22.2	26.9	31.9	22. 42. 4.10		3.96			22. 42. 4.33	- 3.66		
	12	Groombridge 3966	S	52.6	57.1	2.0	...	16.4	21.5	...	...	...	...	22. 58. 21.31		21.12			22. 58. 21.48	- 3.78		
	13	Lalande F. 4348.	S	...	...	...	...	...	...	39.2	44.0	49.1	53.9	22. 58. 25.12		24.93			22. 58. 25.29	- 3.78		
	14	2 Cassiopeia.	S	52.0	56.9	1.6	11.0	16.0	20.6	34.9	39.6	44.2	49.2	23. 5. 20.67		20.49			23. 5. 20.85	- 3.81		
	15	Groombridge 4000	S	58.5	3.2	8.0	17.4	22.2	27.1	41.1	45.8	50.6	55.9	23. 5. 27.05		26.87			23. 5. 27.23	- 3.81		
	16	B. F. 3183	S	0.7	3.3	5.8	10.8	13.2	15.9	23.1	25.5	28.0	30.5	23. 10. 15.72		16.37			23. 10. 16.73	- 4.00		
	17	γ Piscium	S	34.2	36.9	39.4	44.1	46.8	49.4	56.6	59.3	1.8	4.1	23. 11. 49.30		49.89	50.31	0.42	23. 11. 50.25	- 3.93		
	18	Groombridge 4040	S	21.5	30.0	38.5	55.5	4.1	12.9	37.9	46.5	55.1	4.0	23. 14. 12.73		11.81			23. 14. 12.17	- 4.50		
	19	Oeltz. Arg. (N.) 25557	S	...	...	...	...	...	...	49.0	54.2	59.4	4.6	23. 20. 34.18		33.94			23. 20. 34.30	- 3.92		
	20	14 Piscium	S	36.1	38.6	41.1	46.0	48.5	51.0	58.5	0.9	3.3	6.0	23. 28. 51.04		51.67			23. 28. 52.03	- 3.94		
	21	Groombridge 1807 S.P.	S	52.0	56.0	59.9	4.0	15.3	19.5	23.5	31.1	35.1	39.2	23. 32. 15.50		16.55			11. 32. 16.91	- 1.59		
	22	78 Pegasi	S	31.5	34.2	37.1	42.9	45.6	48.5	56.9	59.7	2.5	5.6	23. 38. 48.49		48.83			23. 38. 49.19	- 3.72		
	23	B.D. + 45° No. 4415	S	36.0	39.4	43.2	50.0	53.4	57.0	7.0	10.7	13.8	17.8	23. 47. 56.88		57.01			23. 47. 57.37	- 3.78		
	24	Groombridge 4160	S	39.3	42.7	46.2	53.1	56.5	0.1	10.2	14.0	17.4	20.9	23. 49. 0.09		0.22			23. 49. 0.58	- 3.78		
	25	Groombridge 4209	S	18.9	27.1	35.3	51.9	...	...	...	...	...	...	23. 58. 8.45		7.59			23. 58. 7.95	- 4.87		
	26	Groombridge 4213	S	...	...	...	15.6	22.3	29.1	48.9	...	...	...	23. 58. 29.12		28.55			23. 58. 28.91	- 4.50		
	27	γ Pegasi	S	40.1	42.8	45.4	50.4	53.1	55.6	3.2	5.7	8.2	10.9	0. 7. 55.58		56.06	56.49	0.43	0.36	0. 7. 56.42	- 3.74	
	28	Groombridge 26...	S	...	...	...	...	...	...	46.9	52.9	59.0	5.3	0. 9. 29.35		28.93			0. 9. 29.29	- 4.39		
	29	R Andromedæ	S	16.5	19.6	22.9	29.1	32.1	35.5	44.6	48.0	51.1	54.2	0. 18. 35.41		35.63			0. 18. 35.99	- 3.77		
	30	45 Piscium	S	8.0	10.5	13.0	17.9	20.4	23.1	30.2	32.8	35.5	38.0	0. 20. 22.98		23.53			0. 20. 23.89	- 3.76		
	31	Piazzi O. 104	S	16.5	21.6	26.5	36.2	41.3	46.5	0.8	5.9	10.9	16.0	0. 27. 46.29		46.08			0. 27. 46.44	- 4.21		
	32	Lalande 916	S	42.9	45.8	48.5	53.6	56.4	59.2	...	...	...	...	0. 30. 59.17		0.03			0. 31. 0.39	- 4.02		
	33	Groombridge 105	S	...	...	...	...	...	...	23.7	31.3	38.8	46.5	0. 32. 1.82		1.11			0. 32. 1.47	- 4.91		
	34	Groombridge 106	S	...	...	...	...	10.9	18.6	40.6	48.2	55.8	3.4	0. 32. 18.65		17.94			0. 32. 18.30	- 4.91		
	35	δ Piscium	S	...	7.2	10.0	14.9	17.5	20.0	27.3	29.8	32.2	...	0. 43. 19.91		20.46	20.81	0.35	0.43	0. 43. 20.82	- 3.71	
	36	Bradley 74	S	...	...	...	38.1	59.6	21.1	21.4	...	...	...	0. 45. 20.48		17.34			0. 45. 17.70	- 8.98		
	37	Lalande 1603	S	38.8	41.4	44.2	49.9	52.6	55.6	3.9	6.9	9.6	12.3	0. 50. 55.56		56.47			0. 50. 56.83	- 3.98		
	38	70 Piscium	S	30.0	32.4	35.0	40.0	42.4	45.1	52.2	54.9	57.5	59.9	0. 56. 44.98		45.53			0. 56. 45.89	- 3.67		
	39	ε Piscium	S	20.2	22.9	25.4	30.1	32.9	35.4	42.7	45.1	48.0	50.4	0. 57. 35.35		35.90	36.32	0.42	0.57	0. 57. 36.26	- 3.67	
	40	75 Piscium	S	...	...	...	...	...	...	15.5	18.0	20.5	23.1	1. 1. 7.97		8.47			1. 1. 8.83	- 3.65		
	41	β Andromedæ	S	39.3	42.2	45.4	51.3	54.2	57.5	6.3	9.4	12.5	15.6	1. 3. 57.41		57.68	58.19	0.51	1. 3.	58.04	- 3.76	
	42	37 Ceti	S	57.2	59.7	2.2	...	...	...	...	22.0	24.5	27.2	1. 9. 12.16		12.86			1. 9. 13.22	- 3.68		
	43	α Ursæ Minoris	S	48.1	0.8	19.2	29.8	45.9	55.2	10.0	20.7	36.7	47.4	1. 21. 23.20		1.55			1. 21. 1.90	- 40.13		
	44	Polaris	S	11.4	21.6	38.1	48.3	5.0	12.6	31.6	40.8	57.8	8.9	1. 21. 53.11		33.25	34.18	0.93				
	45	η Piscium	S	42.1	44.8	47.5	52.5	55.1	57.9	5.4	8.0	10.5	13.2	1. 25. 57.74		58.22	58.57	0.35	1. 25.	58.57	- 3.59	
	46	Piazzi I. 182	S	4.0	6.6	9.1	14.0	16.7	19.1	26.4	29.2	31.8	34.2	1. 44. 19.15		19.87			1. 44. 20.22	- 3.51		
	47	χ Ceti	S	...	18.2	20.9	25.9	28.4	30.9	38.1	40.9	43.5	...	1. 44. 30.90		31.62			1. 44. 31.97	- 3.51		
	48	Lalande F. 2380 S.P.	S	...	...	...	7.2	50.9	6.5	21.5	...	...	...	1. 49. 51.22		54.37			13. 49. 54.72	+ 2.48		
	49	112 Piscium	S	...	...	...	...	...	46.9	54.4	56.8	59.4	2.0	1. 54. 47.05		47.64			1. 54. 47.99	- 3.48		
	50	Piazzi I. 230	S	...	...	...	...	...	21.8	38.3	44.1	49.8	56.0	1. 57. 21.93		21.58			1. 57. 21.93	- 4.65		
	51	α Arietis	S	5.1	7.9	10.7	16.0	18.5	21.4	29.2	32.0	34.6	37.5	2. 1. 21.33		21.74	22.10	0.36	2. 1.	22.09	- 3.56	
	52	Lalande 4023	S	34.8	37.4	40.1	45.6	48.2	51.0	59.3	1.8	4.5	7.5	2. 4. 51.06		51.93			2. 4. 52.28	- 3.42		
	53	67 Ceti	S	35.0	37.6	40.0	44.9	47.4	50.0	57.4	59.9	2.4	5.0	2. 11. 50.00		50.68	51.05	0.37	2. 11.	51.03	- 3.36	
	54	Groombridge 618	AC	52.1	56.1	0.2	8.2	12.1	16.3	28.1	32.1	36.1	40.4	3. 4. 16.23		16.22			0.66	3. 4.	16.87	- 4.00

43. Observed over wire R with the transit-micrometer set to readings 35°691, 35°850, 36°003, 36°079, 36°217, 36°313, 36°441, 36°556, 36°689, 36°779.
 44. Observed over wire T with the transit-micrometer set to readings 35°232, 35°317, 35°490, 35°569, 35°699, 35°779, 35°924, 36°013, 36°153, 36°277.

1896 Aug. 58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[145]

MONTH.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Aug. 29	1	Groombridge 628	AC	30.0	36.9	44.0	58.0	4.9	12.1	33.0	40.0	47.0	54.2	3. 10. 12.11	+ 1.33	11.49			0.66	3. 10. 12.14	- 5.18
	2	β 2 L.	AC	9.1	11.9	14.7	20.0	22.9	25.7	33.8	36.7	39.5	42.2	3. 18. 25.69	(- 1.29)	26.09			[- 0.10]	3. 17. 19.34	
	3	f Tauri	AC	54.6	57.1	59.8	4.6	7.2	9.9	17.3	19.8	22.4	25.1	3. 25. 9.82	[+ 11.19]	10.32	10.92	0.60			
	4	γ Tauri	AC	2.9	5.6	8.5	13.7	16.4	19.2	27.2	30.0	32.6	35.5	3. 28. 19.20		19.58				3. 28. 20.23	- 3.30
	5	γ Eridani	AC	56.5	59.2	1.6	6.5	9.2	11.9	19.4	22.0	24.5	27.0	3. 53. 11.82		12.56	13.23	0.67			
Aug. 30	6	ω Aquilæ	B	43.2	45.9	48.2	53.3	55.9	58.4	5.9	8.2	10.9	13.5	19. 12. 58.38		58.89	59.35	0.46	0.54		
	7	δ Aquilæ	B	...	...	...	...	15.1	17.8	25.0	27.5	30.0	32.4	19. 20. 17.68		18.27	18.77	0.50	[- 0.08]		
	8	λ Ursæ Minoris...	B	10.5	12.3	18.8	26.2	25.5	36.0	7.6	1.1	...	...	19. 27. 6.00		41.55	41.44	0.11			
Aug. 31	9	Polaris S.P.	W	35.0	41.4	47.1	16.0	22.9	29.5	...	...	...	...	13. 21. 14.52	+ 1.22	36.23	35.41	0.82	0.51		
	10	β Ophiuchi	W	7.1	9.5	12.0	16.9	19.5	22.0	29.4	31.9	34.3	37.0	17. 38. 22.00	(- 1.71)	22.53	23.04	0.51	[- 0.01]		
	11	μ Herculis	W	8.1	11.1	13.9	19.3	22.0	24.9	33.2	36.0	38.9	41.8	17. 42. 24.96	[+ 10.91]	25.26	25.79	0.53			
	12	γ Draconis	W	1.7	...	...	...	...	24.9	28.8	32.9	36.9	39.9	17. 54. 13.12		13.06				17. 54. 13.56	- 1.98
	13	δ Ursæ Minoris...	W	25.0	30.4	37.4	44.4	54.0	1.6	9.9	16.4	53.8	5.9	18. 5. 49.76		42.47	42.14	0.33			
	14	Cephei 51 S.P.	W	56.0	8.1	17.2	24.6	37.5	58.4	8.1	18.2	27.9	38.8	18. 51. 47.48		57.43	58.66	1.23			
	15	ζ Cygni	W	16.1	18.9	21.8	...	...	33.2	...	44.4	47.3	50.1	21. 8. 33.14		33.42	33.97	0.55			
	16	Oeltz. Arg. (N.) 22084	W	6.4	9.9	13.5	...	...	27.9	...	...	...	...	21. 17. 27.82		27.87				21. 17. 28.37	- 3.24
	17	β Aquarii	AC	52.9	55.5	58.0	2.9	5.5	8.0	15.2	17.8	20.2	22.8	21. 26. 7.92		8.55	9.07	0.52	0.56†		
	18	Oeltz. Arg. (N.) 22410	W	30.5	35.5	...	50.9	56.1	1.5	...	...	...	...	21. 28. 1.38		1.05			0.51	21. 28. 1.55	- 3.18
	19	B.D.+47° No. 3455	W	...	...	...	...	18.5	22.5	...	37.3	41.1	44.8	21. 28. 22.55		22.56				21. 28. 23.06	- 3.28
	20	B.D.+48° No. 3411	W	...	...	...	...	25.5	29.3	33.1	43.9	47.8	51.6	21. 28. 33.06		33.07				21. 28. 33.57	- 3.28
	21	ξ Aquarii	AC	0.9	3.3	5.9	10.7	13.1	15.9	23.1	25.7	28.1	30.9	21. 32. 15.80		16.45	17.03	0.58	0.56†		
	22	41 Capricorni	W	52.5	...	57.9	3.3	5.9	8.6	16.7	19.2	...	25.0	21. 36. 8.68		9.50			0.51	21. 36. 10.00	- 4.55
	23	B.D.+9° No. 4890	W	...	...	...	...	...	...	13.8	16.7	31.5	46.2	21. 39. 1.45		1.93				21. 39. 2.43	- 3.78
	24	ε Pegasi	W	...	...	...	...	...	...	15.1	17.3	20.0	22.5	21. 39. 7.53		8.01	8.40	0.39			
	25	16 Cephei	W	59.5	7.8	16.0	...	...	...	...	...	...	...	21. 57. 49.27		48.31				21. 57. 48.81	- 3.55
	26	16 Cephei	W	...	...	...	...	...	...	14.5	22.8	31.3	39.8	21. 57. 49.98		49.02				21. 57. 49.52	- 3.55
	27	Oeltz. Arg. (N.) 23407	W	23.2	26.6	30.3	...	41.3	44.9	...	...	...	...	22. 2. 44.81		44.85				22. 2. 45.35	- 3.45
	28	ε Aquarii	W	46.9	49.5	51.9	56.9	59.5	2.0	9.4	12.0	14.2	17.0	22. 5. 1.97		2.66				22. 5. 3.16	- 4.20
	29	Bradley 2930	W	...	...	16.0	21.1	23.6	26.1	33.8	36.0	...	...	22. 11. 26.15		26.81				22. 11. 27.31	- 4.16
	30	Groombridge 3842	W	...	...	...	...	36.9	44.0	4.9	12.3	19.2	26.7	22. 32. 43.98		43.24				22. 32. 43.74	- 3.87
	31	Piazzi XXII. 195.	W	36.8	39.6	41.9	47.0	49.7	52.0	59.5	2.1	4.7	7.5	22. 36. 52.12		52.56				22. 36. 53.06	- 3.79
	32	78 Aquarii	W	57.2	59.6	2.1	7.0	9.6	12.0	19.5	22.0	24.5	27.0	22. 49. 12.09		12.74				22. 49. 13.24	- 4.10
	33	51 Pegasi	W	8.3	10.9	13.8	18.9	21.4	24.1	32.0	34.5	37.2	40.0	22. 52. 24.15		24.53				22. 52. 25.03	- 3.75
	34	W.B. (2) XXII. 1175	W	50.0	52.6	55.2	0.4	2.9	5.7	13.5	16.1	18.8	21.6	22. 53. 5.72		6.10				22. 53. 6.60	- 3.75
	35	Bradley 3067	W	...	...	...	5.2	20.4	35.3	17.6	32.0	46.8	2.1	22. 59. 34.79		32.62				22. 59. 33.12	- 5.39
	36	Lalande F. 1812 S.P.	W	...	...	...	...	3.0	9.9	16.5	29.4	36.0	42.5	23. 3. 3.21		4.83				11. 3. 5.33	- 1.36
	37	Bradley 3084	W	36.6	40.6	44.9	53.0	57.0	1.1	13.3	17.3	21.5	25.6	23. 12. 1.15		1.07				23. 12. 1.57	- 3.78
	38	Bradley 3147	W	5.2	13.8	22.0	31.1	39.3	56.5	4.3	15.3	23.5	33.1	23. 28. 8.69		1.11				23. 28. 1.61	- 12.44
Sept. 1	39	Polaris S.P.	HA	17.8	23.5	29.2	35.2	41.1	46.1	50.3	57.0	2.9	9.1	13. 21. 13.96		35.67	36.19	0.52	0.42†		
	40	γ Ceti	CD	12.5	15.0	17.5	22.3	24.9	27.5	34.7	37.2	39.8	42.2	2. 30. 27.40		27.92	28.29	0.37	[- 0.38†		
	41	δ Ceti	CD	56.6	58.9	1.5	6.5	8.9	11.5	18.7	21.2	23.8	26.2	2. 34. 11.42		12.00	12.39	0.39			
Sept. 2	42	⊙ 1 L.	RC	33.5	35.8	38.1	43.2	45.9	48.2	55.9	58.3	0.9	3.3	10. 46. 48.35		} 53.16			0.42	} 10. 47. 53.54	
	43	⊙ 2 L.	RC	...	...	...	51.9	54.5	57.0	4.2	...	...	...	10. 48. 56.95					[- 0.10]		
	44	κ Piscium	RC	24.1	26.6	29.1	34.0	36.5	39.1	46.3	49.0	51.4	54.0	23. 21. 39.05		39.62	39.98	0.36			
	45	ω Piscium	RC	46.3	48.9	51.3	56.2	58.8	1.2	8.6	11.1	13.6	16.1	23. 54. 1.25		1.77	2.04	0.27			
Sept. 3	46	⊙ 1 L.	AC	10.7	13.1	15.7	20.7	23.1	25.8	33.1	35.6	38.1	40.7	10. 50. 25.70		} 30.42			0.43	} 10. 51. 30.79	
	47	⊙ 2 L.	AC	19.1	21.6	24.1	29.1	31.6	34.1	41.6	44.0	46.5	49.1	10. 52. 34.12					[- 0.14]		
	48	Polaris S.P.	AC	55.1	1.6	9.3	18.4	37.9	43.4	50.0	58.5	19.4	26.7	13. 21. 16.82		38.54	37.55	0.99			
	49	ζ Virginis	AC	...	...	...	...	...	...	36.8	39.2	54.0	8.9	13. 29. 24.48		25.06	25.33	0.27			
																				13. 29. 25.41	- 1.78

Correction for passage of Semidiameter, No. 2, — 67".41.

2. Correction to R.A. on true meridian, + 0".01. 7, 13. Cloudy. 8, 9, 14. Very faint; cloudy.
8. Observed over wire T with the transit-micrometer set to readings 36".083, 36".500, 36".580, 36".621, 37".460, 37".510, 40".349, 40".700.
9. Observed over wire O with the transit-micrometer set to readings 37".723, 37".662, 37".621, 35".257, 35".203, 35".119.
12. Observed over wires M, U, V, W and X.
13. Observed over wire U with the transit-micrometer set to readings 33".444, 35".033, 35".210, 35".393, 35".602, 35".800, 35".990, 36".180, 37".053, 37".341.
14. Observed over wire T with the transit-micrometer set to readings 36".600, 36".400, 36".200, 36".000, 35".800, 35".400, 35".200, 35".000, 34".800, 34".600.
23. Observed in dark field with wires illuminated over wires W, X, Y and Z. 31, 32, 34. Very faint.
38. Observed over wire O with the transit-micrometer set to readings 34".600, 34".800, 35".000, 35".200, 35".400, 35".800, 36".000, 36".200, 36".400, 36".600.
39. Observed over wire T with the transit-micrometer set to readings 35".574, 35".544, 35".478, 35".399, 35".381, 35".315, 35".279, 35".220, 35".153, 35".089.
48. Observed over wire P with the transit-micrometer set to readings 35".504, 35".479, 35".405, 35".336, 35".155, 35".095, 35".039, 34".975, 34".786, 34".715.
49. Observed over wires W, X, Y and Z.

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Sept. 3	1	ε ² Boötis.....	AC	37.8	54.4	...	...	...	...	...	...	...	14. 40. 27.88	+ 1.22	28.18	28.50	0.32	0.43	14. 40. 28.52	- 1.83		
	2	α Coronæ	AC	1.8	4.4	7.1	12.8	15.5	18.3	26.7	29.4	32.1	35.1	15. 30. 18.36	(- 1.71)	18.67	19.02	0.35	[- 0.14]	15. 30. 19.01	- 1.99	
	3	α Serpentis	AC	55.1	57.6	0.1	5.1	7.5	10.2	17.5	20.0	22.5	25.1	15. 39. 10.11	[+10.91]	10.62	10.98	0.36		15. 39. 10.96	- 2.31	
	4	λ Ophiuchi	B	27.0	29.4	32.0	36.8	39.2	41.8	...	...	...	...	16. 25. 41.80		42.35	42.62	0.27	0.39	.....		
	5	ζ Ophiuchi	B	12.7	15.1	17.7	22.6	25.1	27.8	35.1	37.6	40.1	42.8	16. 31. 27.70		28.37	28.68	0.31		.....		
	6	ζ Ophiuchi (E&E) B	B	31.6	46.8	1.9	17.0	32.1	47.0	2.2	...	...	...	16. 31. 27.70		28.37	28.68	0.31		.....		
	7	ζ Herculis.....	B	6.0	8.9	11.9	17.6	20.5	23.5	32.0	35.1	38.0	41.0	16. 37. 23.49		23.75	24.01	0.26		.....		
	8	ζ Herculis..(E&E) B	B	20.6	37.9	55.3	12.8	30.2	47.6	4.8	...	...	...	16. 37. 23.50		23.76	24.01	0.25		.....		
	9	η Ophiuchi	B	11.5	14.0	16.6	21.8	24.1	26.9	34.3	37.0	39.6	42.1	17. 4. 26.83		27.55	27.86	0.31		.....		
	10	Cephei 51 S.P....	AC	29.4	34.9	40.9	48.1	17.3	22.8	28.6	35.3	...	...	18. 51. 49.48		59.42	0.21	0.79	0.43	.....		
	11	ψ Sagittarii	AC	56.3	59.1	1.9	7.2	10.0	12.8	20.9	23.6	26.3	29.1	19. 9. 12.76		13.60	13.97	0.37		19. 9. 13.92	- 4.19	
	12	ω Aquilæ	R. AC	43.1	45.8	48.1	53.3	55.8	58.4	...	...	...	...	19. 12. 58.33		58.98	59.31	0.33		19. 12. 59.30	- 3.26	
	13	λ Ursæ Minoris...	AC	3.6	14.0	25.0	37.5	6.0	13.0	22.0	33.9	55.1	3.4	19. 27. 1.94		36.46	36.45	-0.01		.....		
	14	γ Aquilæ	AC	...	8.9	11.4	16.5	19.0	21.5	28.9	31.5	34.0	...	19. 41. 21.51		21.98	22.27	0.29		19. 41. 22.30	- 3.40	
	15	γ Aquilæ..(E&E) AC	AC	25.4	40.4	55.7	...	25.8	40.9	56.0	...	...	...	19. 41. 21.41		21.88	22.27	0.39		.....		
	16	B.D.+62°No.1764	AC	59.4	4.7	10.0	20.4	26.0	31.3	...	...	...	...	19. 50. 31.24		30.88				19. 50. 31.19	- 2.27	
	17	Radcliffe 2020 S.P. AC	AC	...	...	...	...	6.9	42.8	18.0	28.0	3.6	...	19. 51. 6.56		13.65				7. 51. 13.96	- 7.89	
	18	Groomb. 1119 S.P. AC	AC	41.6	49.6	57.7	4.8	26.0	31.8	38.2	46.7	...	...	19. 53. 32.19		57.59				7. 53. 57.90	- 21.68	
	19	Carrington 1144 S.P. AC	AC	...	...	...	...	23.0	41.9	59.6	34.7	52.8	10.6	19. 54. 23.34		27.14				7. 54. 27.45	- 5.20	
	20	B.D.+37°No.3863	AC	33.8	36.7	39.9	46.0	48.9	52.1	...	...	...	...	20. 12. 52.22		52.40				20. 12. 52.71	- 3.03	
	21	B.D.+44°No.3424	AC	37.9	41.3	44.9	51.8	55.2	58.9	9.0	12.5	16.0	19.8	20. 14. 58.78		58.85				20. 14. 59.16	- 2.89	
Sept. 4	22	Procyon.....	B	38.0	40.5	42.9	47.9	50.3	52.9	0.1	2.7	5.2	7.8	7. 33. 52.87	[+13.40]	53.51	53.55	0.04	0.03	7. 33. 53.51	- 2.00	
	23	Pollux	B	...	...	48.0	53.5	56.2	59.1	7.5	10.2	...	...	7. 38. 59.13		59.50	59.58	0.08	[- 0.10]	7. 38. 59.50	- 2.44	
Sept. 5	24	⊙ 1 L.....	B	24.5	26.9	29.4	34.2	36.9	39.2	46.7	49.3	51.8	54.2	10. 57. 39.35		{ 44.14				10. 58. 44.12		
	25	⊙ 2 L.....	B	32.8	35.1	37.7	...	...	...	...	...	...	...	10. 59. 47.66								
	26	Polaris S.P.	B	15.1	26.7	38.7	50.0	1.1	11.8	24.8	35.8	47.3	...	13. 21. 12.16		38.77	38.70	-0.07		.....		
	27	ρ Boötis	B	...	...	10.8	16.4	19.3	22.2	30.7	33.7	...	...	14. 27. 22.23		22.56	22.57	0.01		14. 27. 22.53	- 1.72	
	28	γ Boötis	B	...	...	...	...	54.8	4.1	7.4	10.5	13.9	14. 27. 54.80		55.01					14. 27. 54.98	- 1.56	
	29	ζ Boötis	B	57.1	59.7	2.1	7.1	9.8	12.4	19.9	22.4	25.0	27.7	14. 36. 12.36		12.89				14. 36. 12.86	- 1.94	
	30	ε ² Boötis.....	B	11.4	14.0	16.9	22.5	25.2	28.1	36.3	39.2	42.0	44.9	14. 40. 28.09		28.46	28.47	0.01		14. 40. 28.43	- 1.80	
	31	α Libræ	B	53.4	56.0	58.6	3.6	6.1	8.8	16.2	18.9	21.4	24.1	14. 45. 8.75		9.63	9.58	-0.05		14. 45. 9.60	- 2.17	
	32	β Ursæ Minoris...	B	4.7	13.9	23.5	42.0	51.3	0.7	28.2	37.7	46.9	56.4	14. 50. 0.67		59.26				14. 49. 59.23	+ 1.13	
	33	δ Boötis	B	2.1	5.1	8.0	14.1	17.1	20.1	28.8	31.9	34.9	38.0	15. 11. 20.06		20.36				15. 11. 20.33	- 1.77	
	34	γ Ursæ Minoris...	B	...	...	21.8	37.7	45.8	54.0	18.0	26.0	...	...	15. 20. 54.04		52.93				15. 20. 52.90	+ 0.60	
	35	ε Draconis	B	8.9	13.8	18.7	28.2	33.1	38.0	52.4	57.3	2.1	7.1	15. 22. 38.03		37.72				15. 22. 37.69	- 0.85	
	36	α Coronæ	B	2.0	4.6	7.6	13.1	15.9	18.6	26.8	29.6	32.3	35.2	15. 30. 18.61		18.99	18.99	0.00		15. 30. 18.69	- 1.96	
	37	γ Coronæ	B	...	...	...	18.6	21.3	24.1	32.2	35.1	37.9	40.8	15. 38. 24.14		24.53				15. 38. 24.49	- 1.98	
	38	α Serpentis	B	...	...	0.5	5.2	7.8	10.5	17.8	20.2	...	...	15. 39. 10.38		11.01	10.95	-0.06		15. 39. 10.97	- 2.28	
	39	β Serpentis	B	9.5	12.0	14.5	19.7	22.1	24.9	32.4	35.1	37.7	40.2	15. 41. 24.85		25.37				15. 41. 25.33	- 2.17	
	40	κ Serpentis	B	...	...	54.8	59.9	2.5	5.1	12.9	15.5	...	...	15. 44. 5.17		5.67				15. 44. 5.63	- 2.14	
	41	ε Coronæ	B	1.9	4.6	7.5	13.1	15.8	18.6	26.9	29.6	32.3	35.4	15. 53. 18.61		18.99				15. 53. 18.95	- 2.02	
	42	π Serpentis	B	34.6	37.3	40.0	45.2	48.0	50.7	58.8	1.3	4.0	6.9	15. 57. 50.72		51.16				15. 57. 51.12	- 2.12	
	43	τ Coronæ	B	53.2	56.2	59.5	5.6	8.6	11.9	20.8	24.0	27.1	30.2	16. 5. 11.76		12.00				16. 5. 11.96	- 1.85	
	44	δ Ophiuchi.....	B	40.6	43.1	45.7	50.5	53.0	55.5	2.8	5.3	7.9	10.4	16. 8. 55.52		56.26	56.19	-0.07		16. 8. 56.22	- 2.57	
	45	ε Ophiuchi.....	B	36.0	38.5	41.0	46.0	48.4	50.9	58.2	0.6	3.1	5.9	16. 12. 50.90		51.65				16. 12. 51.61	- 2.61	
	46	τ Herculis	B	16.9	20.3	24.0	31.1	34.8	38.4	49.0	52.6	56.1	59.9	16. 16. 38.35		38.41				16. 16. 38.37	- 1.59	
	47	ω Herculis	B	23.6	26.0	28.6	33.6	36.1	38.9	46.2	48.9	51.5	54.1	16. 20. 38.79		39.32				16. 20. 39.28	- 2.36	
	48	η Draconis.....	B	4.7	10.0	15.2	25.6	30.8	36.1	51.6	56.8	2.1	7.5	16. 22. 36.12		35.71				16. 22. 35.67	- 0.84	
	49	β Herculis	B	30.8	33.3	36.1	41.3	44.1	46.8	54.5	57.3	59.9	2.7	16. 25. 46.72		47.18				16. 25. 47.14	- 2.25	
	50	h Herculis	B	30.9	33.3	36.0	41.1	43.6	46.1	53.5	56.1	58.8	1.3	16. 27. 46.11		46.68				16. 27. 46.64	- 2.43	
	51	σ Herculis	B	...	...	...	...	43.1	46.6	56.6	59.9	3.3	6.9	16. 30. 46.62		46.76				16. 30. 46.72	- 1.77	
	52	ζ Herculis	B	...	...	12.0	17.9	20.8	23.7	32.2	35.2	...	...	16. 37. 23.69		24.01	23.96	-0.05		16. 37. 23.97	- 2.06	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 6, 8, and 15, — 49^s.27 : — 49^s.27 : and — 49^s.32.

1. Observed over wires M and N.

4, 25. Cloudy.

10. Observed over wire S with the transit-micrometer set to readings 35^s.811, 35^s.722, 35^s.612, 35^s.462, 34^s.905, 34^s.775, 34^s.676, 34^s.531.

13. Observed over wire T with the transit-micrometer set to readings 36^s.481, 36^s.545, 36^s.657, 36^s.705, 36^s.919, 36^s.969, 37^s.055, 37^s.110, 37^s.259, 37^s.311.

18. Observed over wire V with the transit-micrometer set to readings 36^s.054, 36^s.023, 35^s.939, 35^s.870, 35^s.734, 35^s.675, 35^s.640, 35^s.583.

26. Observed over wire X with the transit-micrometer set to readings 38^s.000, 37^s.900, 37^s.800, 37^s.700, 37^s.600, 37^s.500, 37^s.400, 37^s.300, 37^s.200.

1893. MONTH. 58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[147]

1896. MONTH.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Redu- ction to Mean R.A. 1896-c.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].									
				s	s	s	s	s	s	s	s	s	s		h	m					s			
Sept. 5	1	η Herculis	B	2'2	5'6	8'9	15'1	18'2	21'6	31'0	34'1	37'4	40'8	16. 39. 21'54	+ 1'22	21'74			0'03	16. 39. 21'70	- 1'92			
	2	Lalande F. 693 S.P.	B	...	...	...	...	2'4	37'6	11'7	...	53'4	27'0	16. 55. 3'09	(- 1'71)	11'44			[- 0'10]	4. 55. 11'40	- 15'97			
	3	η Ophiuchi	B	11'6	14'1	16'8	21'8	24'4	27'1	34'5	37'2	39'8	42'4	17. 4. 27'01	[+ 13'40]	27'89	27'83	- 0'06		17. 4. 27'85	- 3'12			
	4	ψ^2 Draconis	B	...	...	...	...	52'5	0'6	24'4	32'2	40'2	48'9	17. 57. 0'64		59'54				17. 56. 59'50	- 0'29			
	5	δ Ursæ Minoris...	B	7'6	16'2	24'0	32'9	40'9	58'0	6'2	14'7	23'2	31'5	18. 5. 49'52		40'61	39'98	- 0'63		.....				
	6	μ Sagittarii	B	19'5	22'0	24'8	30'1	32'6	35'4	43'3	45'9	48'5	51'2	18. 7. 35'37		36'33	36'23	- 0'10		18. 7. 36'28	- 3'66			
	7	2 Lyncis S.P.	B	...	...	...	...	29'2	34'0	38'9	48'4	53'1	58'1	18. 10. 29'18		30'72				6. 10. 30'67	- 3'93			
	8	3 Lyncis S.P.	B	...	...	...	...	32'5	38'0	43'1	53'5	58'7	4'0	18. 12. 32'57		34'23				6. 12. 34'18	- 4'08			
	9	η Serpentis	B	...	...	...	53'3	55'7	58'1	5'5	8'0	10'5	13'1	18. 15. 58'21		58'94	58'87	- 0'07		18. 15. 58'89	- 3'24			
	10	1 Aquilæ	R.	20'5	22'9	25'5	30'2	32'9	35'4	42'8	45'3	47'9	50'4	18. 29. 35'42		36'34				18. 29. 36'29	- 3'47			
	11	2 Aquilæ	B	22'4	24'9	27'5	32'4	34'9	37'6	44'9	47'4	50'0	52'5	18. 36. 37'49		38'29	38'23	- 0'06		18. 36. 38'24	- 3'53			
	12	6 Aquilæ	R.	37'2	12'1	27'0	29'6	32'1	...	...	...	...	...	18. 41. 41'91		42'79				18. 41. 42'74	- 3'45			
	13	6 Aquilæ	B	...	...	...	...	49'4	52'0	54'4	56'9	11'9	26'9	18. 41. 42'17		42'93				18. 41. 42'88	- 3'45			
	14	12 Aquilæ	R.	25'5	40'4	55'2	57'8	0'3	...	...	...	...	...	18. 56. 10'19		10'96				18. 56. 10'91	- 3'54			
	15	Piazzi VI. 334 S.P.R.	B	10'0	26'2	42'5	58'6	...	...	...	...	...	...	19. 15. 45'81		49'03				7. 15. 48'98	- 6'18			
	16	Piazzi VI. 334 S.P....	B	...	...	...	...	44'7	0'9	17'1	48'4	4'6	20'5	19. 15. 44'66		48'88				7. 15. 48'83	- 6'18			
	17	λ Ursæ Minoris...	B	45'5	48'4	10'7	18'9	21'8	47'7	59'9	59'6	8'5	24'0	19. 27. 4'50		33'32	33'93	0'61		.....				
	18	γ Aquilæ	B	...	...	...	...	19'2	21'9	29'3	31'9	34'2	36'9	19. 41. 21'84		22'42	22'25	- 0'17		19. 41. 22'37	- 3'38			
	19	α Aquilæ	W	...	32'9	35'5	40'4	42'9	45'5	52'8	55'3	57'9	...	19. 45. 45'45		46'05	45'96	- 0'09	- 0'03	.....				
	20	α Aquilæ ..(E&E)	W	50'8	5'7	20'7	...	50'8	5'6	20'4	...	...	...	19. 45. 45'20		45'80	45'96	+ 0'16		.....				
	21	B.D.+62°No.1764	B	28'0	0'1	4'7	10'2	20'9	...	...	...	...	...	19. 50. 31'54		31'11			0'03	19. 50. 31'06	- 2'20			
	22	δ Sagittarii	B	...	...	...	...	48'3	51'2	54'1	10'8	27'6	19. 50. 37'43		38'47					19. 50. 38'42	- 4'43			
	23	ϵ Sagittarii	W	...	5'1	8'0	13'8	16'5	19'4	27'8	30'3	33'1	...	19. 56. 19'30		20'36	20'23	- 0'13	- 0'03	.....				
	24	ϵ Sagittarii.(E&E)	W	19'4	36'2	53'0	...	26'4	43'3	0'1	...	...	...	19. 56. 19'25		20'31	20'23	- 0'08		.....				
	25	α^1 Capricorni.....	B	40'9	43'5	46'0	51'1	53'7	56'2	3'9	6'2	8'9	11'5	20. 11. 56'23		57'08			0'03	20. 11. 57'03	- 4'03			
	26	α^2 Capricorni.....	B	5'2	7'7	10'1	15'1	17'8	20'2	27'9	30'2	32'9	35'5	20. 12. 20'30		21'15	21'09	- 0'06		20. 12. 21'10	- 4'04			
	27	Lacaille 8409	B	50'0	52'9	55'8	1'7	4'1	7'4	15'8	18'4	21'5	24'2	20. 14. 7'22		8'30				20. 14. 8'25	- 4'60			
	28	α Delphini.....	B	36'0	38'5	41'1	46'1	48'8	51'5	...	...	6'9	22'1	20. 34. 51'41		51'93	51'90	- 0'03		20. 34. 51'87	- 3'49			
	29	α Delphini.(E&E)	B	55'6	11'0	26'6	42'0	57'5	12'8	28'0	...	...	...	20. 34. 51'42		51'94	51'90	- 0'04		.....				
	30	α Cygni	B	35'1	38'6	42'0	48'9	52'3	56'0	6'2	9'8	13'3	16'9	20. 37. 55'96		56'05				20. 37. 55'99	- 2'98			
	31	ϵ Cygni	B	45'3	48'2	51'2	57'1	0'1	3'2	11'9	14'7	17'9	21'0	20. 42. 3'11		3'41				20. 42. 3'35	- 3'22			
	32	ζ Cygni	B	...	...	...	27'9	30'6	33'7	42'1	44'9	47'7	50'7	21. 8. 33'62		33'97	33'95	- 0'02		21. 8. 33'91	- 3'38			
	33	τ Cygni	B	22'7	25'8	28'9	35'1	38'1	41'5	50'6	53'9	56'9	0'1	21. 10. 41'41		41'64				21. 10. 41'58	- 3'28			
	34	σ Cygni	B	3'9	6'9	10'2	16'6	19'9	...	32'3	35'6	...	...	21. 13. 22'96		23'16				21. 13. 23'10	- 3'27			
	35	α Cephei	B	37'7	42'8	48'0	58'5	4'0	9'5	24'9	30'2	35'6	41'0	21. 16. 9'30		8'88				21. 16. 8'82	- 3'01			
Sept. 7	36	α Lyrae	B	8'2	11'5	14'6	20'9	24'0	27'3	36'8	39'9	43'0	46'2	18. 33. 27'29	+ 0'89	27'41	27'43	0'02	- 0'14	18. 33. 27'42	- 2'42			
	37	ϵ^1 Lyrae (1st Star)	B	36'6	39'9	...	...	...	55'9	...	...	11'9	15'0	18. 40. 55'88	(- 2'23)	55'99			[+ 0'20]	18. 40. 56'01	- 2'42			
	38	ϵ^1 Lyrae (2nd Star)	B	...	...	43'1	49'6	52'8	...	5'6	8'6	...	...	18. 40. 56'02	[+ 12'24]	56'13				18. 40. 56'15	- 2'42			
	39	ϵ^2 Lyrae (1st Star)	B	38'9	42'1	...	...	...	58'1	...	...	14'1	17'5	18. 40. 58'16		58'27				18. 40. 58'29	- 2'42			
	40	ϵ^2 Lyrae (2nd Star)	B	...	...	45'7	52'0	55'1	...	7'9	11'1	...	...	18. 40. 58'44		58'55				18. 40. 58'57	- 2'42			
	41	β^1 Lyrae	B	...	...	...	...	13'9	16'9	25'5	28'5	31'4	34'4	18. 46. 16'79		16'99	16'99	0'00		18. 46. 17'01	- 2'60			
	42	Cephei 51 S.P.	B	0'8	6'9	13'2	18'6	39'8	29'0	34'8	40'5	47'4	53'8	18. 51. 50'66		2'78				6. 52. 2'80	- 16'82			
	43	λ Aquilæ	B	31'6	34'1	36'7	41'5	44'1	...	...	...	...	31'1	19. 0. 46'55		47'21				19. 0. 47'23	- 3'52			
	44	Piazzi XIX. 11....	B	24'9	28'0	31'2	37'7	40'8	44'0	53'4	56'5	59'8	2'9	19. 4. 43'97		44'09				19. 4. 44'11	- 2'56			
	45	Piazzi XIX. 27....	B	...	...	...	14'4	17'8	20'9	30'3	33'5	36'8	40'0	19. 7. 20'93		21'05				19. 7. 21'07	- 2'58			
	46	Groombridge 2785	B	...	...	...	...	...	55'7	5'5	8'8	12'0	15'5	19. 8. 55'78		55'85				19. 8. 55'87	- 2'53			
	47	δ Aquilæ	R.	...	...	53'1	58'1	0'6	3'3	10'8	13'2	...	...	19. 20. 3'23		3'94				19. 20. 3'96	- 3'27			
	48	λ Ursæ Minoris...	B	12'2	16'5	22'1	27'9	54'9	1'6	6'2	30'8	37'1	41'6	19. 27. 3'60		32'28				19. 26. 32'30	+ 28'18			
	49	ϕ Cygni	B	...	...	...	...	...	...	27'1	30'0	32'9	35'4	19. 35. 18'74		18'99				19. 35. 19'01	- 2'93			
	50	γ Aquilæ	B	6'8	9'2	11'8	16'7	19'1	21'9	29'2	31'6	34'1	36'8	19. 41. 21'76		22'24	22'23	- 0'01		19. 41. 22'26	- 3'36			
	51	γ Aquilæ ..(E&E)	B	...	43'5	58'6	13'7	28'8	43'8	...	...	...	...	19. 41. 21'73		22'21	22'23	0'02		.....				
	52	α Aquilæ	B	30'5	32'9	35'5	40'3	42'9	45'5	52'9	55'4	58'0	0'4	19. 45. 45'47		45'98	45'94	- 0'04		19. 45. 46'00	- 3'44			
	53	α Aquilæ... (E&E)	B	52'5	7'2	22'4	37'4	52'4	7'3	22'5	...	...	...	19. 45. 45'44		45'95	45'94	- 0'01		.....				

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 20, 24, 29, 51, and 53, — 50^m50^s: — 50^m51^s: — 50^m54^s: — 51^m98^s: and — 51^m98^s.

September 7th. 0^h. The rate of the Sidereal Standard Clock was altered to ensure its becoming positive.
2, 28, 32, 43, 44, 45, 48, 52, 53. Cloudy.
5. Observed over wire T with the transit-micrometer set to readings 34^r600, 34^r800, 35^r000, 35^r200, 35^r400, 35^r600, 36^r000, 36^r200, 36^r400, 36^r600.
12, 14. Observed over wires M, N, O, P and Q.
17. Observed over wire T with the transit-micrometer set to readings 34^r600, 34^r700, 34^r800, 35^r200, 35^r300, 35^r900, 36^r000, 36^r400, 36^r500, 36^r600.
21. Observed over wires N, O, P, Q and R.
22. Observed over wires V, W, X, Y and Z.
42. Observed over wire T with the transit-micrometer set to readings 37^r748, 37^r638, 37^r518, 37^r409, 37^r001, 33^r660, 33^r555, 33^r440, 33^r320, 33^r170.
43. Observed over wires O, P, Q, R, S and Z.
48. Observed over wire T with the transit-micrometer set to readings 34^r795, 34

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896-0.				
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	[Azimuth].					s	s	s		s	h	m	s
s	s	s	s	s	s	s	s	s	s	h	m	s	s	s	s	s	s	s	s	s								
Sept. 7	1	ν Cygni	B	...	...	...	...	17.4	20.7	30.3	33.6	36.9	40.2	20. 53. 20.68	+ 0.89	20.76			- 0.14	20. 53. 20.79			- 3.12					
	2	Bradley 2740	B	46.9	50.0	53.1	59.3	2.4	5.7	14.9	18.0	21.4	24.5	20. 59. 5.67	(- 2.23)	5.80			[+ 0.20]	20. 59. 5.83			- 3.19					
	3	61 ¹ Cygni	B	58.4	1.6	4.8	11.0	14.2	17.4	26.6	29.8	32.9	36.1	21. 2. 17.33	[+ 12.24]	17.46				21. 2. 17.50			- 3.44					
	4	61 ² Cygni	B	0.0	3.1	6.2	12.5	15.7	18.9	28.1	31.3	34.4	37.8	21. 2. 18.85			18.98				21. 2. 19.02			- 3.44				
	5	γ Equulei	B	5.1	7.6	10.0	15.0	17.5	20.2	27.5	30.1	32.7	35.2	21. 5. 20.13			20.63				21. 5. 20.67			- 3.68				
	6	6 Equulei	B	16.1	18.6	21.4	26.1	...	...	...	...	...	16.1	21. 5. 31.18			31.68				21. 5. 31.72			- 3.68				
	7	ζ Cygni	B	16.5	19.3	22.1	27.9	30.6	33.6	42.0	44.9	47.8	50.6	21. 8. 33.57			33.82	33.93	0.11		21. 8. 33.86			- 3.36				
	8	τ Cygni	B	22.6	25.9	28.9	35.1	38.1	41.4	50.6	53.6	56.9	0.1	21. 10. 41.37			41.51				21. 10. 41.55			- 3.26				
	9	σ Cygni	B	3.8	6.8	10.0	16.3	19.7	22.8	32.1	35.5	38.7	42.0	21. 13. 22.82			22.94				21. 13. 22.98			- 3.25				
	10	α Cephei	B	37.3	42.6	48.0	58.5	3.9	9.3	24.9	30.1	35.6	40.9	21. 16. 9.19			8.68				21. 16. 8.72			- 2.97				
	11	ε Pegasi	B	52.9	55.4	57.9	2.8	5.3	8.0	15.3	18.0	20.3	22.9	21. 39. 7.92			8.42	8.40	- 0.02		21. 39. 8.46			- 3.78				
	12	11 Piscium	B	...	57.6	0.1	5.0	7.5	10.0	17.5	19.9	22.3	...	23. 24. 10.04			10.66				23. 24. 10.72			- 4.04				
	13	Groombridge 4117	B	...	36.9	42.9	53.7	59.0	4.5	20.8	26.2	32.0	...	23. 35. 4.61			4.05				23. 35. 4.11			- 4.22				
	14	Groombridge 4121	B	44.4	49.9	55.4	6.1	11.6	17.3	33.7	...	...	...	23. 35. 17.28			16.72				23. 35. 16.78			- 4.22				
	15	τ Cassiopeiae	B	34.4	39.1	43.8	53.1	57.9	2.9	16.3	21.1	25.8	30.5	23. 42. 2.56			2.22				23. 42. 2.28			- 4.11				
	16	W. B. (2) XXIII. 971-2-3	B	36.6	39.4	42.1	47.6	50.3	53.1	1.2	4.0	6.7	9.5	23. 47. 53.09			53.40				23. 47. 53.46			- 3.84				
	17	B. F. 3276	B	6.9	9.3	11.9	16.8	19.2	21.9	29.1	31.6	34.1	36.8	23. 50. 21.80			22.32				23. 50. 22.38			- 3.92				
	18	Bradley 3187	B	...	...	...	...	46.7	43.0	1.8	22.0	41.8	23. 51. 46.28				42.47				23. 51. 42.53			- 7.94				
	19	Bradley 3194	B	18.9	26.6	34.2	40.8	48.5	2.9	11.1	18.1	25.0	32.8	23. 54. 55.89			48.09				23. 54. 48.15			- 12.62				
	20	Bradley 3203	B	...	...	...	56.6	15.3	34.0	29.2	...	...	...	23. 57. 34.17			30.48				23. 57. 30.54			- 7.92				
	21	Groombridge 1850 S.P.	B	...	...	...	...	14.0	51.9	29.4	42.1	...	...	23. 59. 14.42			23.40				11. 59. 23.46			+ 7.45				
	22	γ Pegasi	B	...	...	...	51.0	53.5	56.1	...	...	8.8	11.4	0. 7. 56.11			56.55	56.62	0.07	0.06	0. 7. 56.61			- 3.87				
	23	Groombridge 1863 S.P.	B	...	...	...	...	16.8	24.4	39.4	46.9	54.5	0. 10. 9.32			11.48				12. 10. 11.54			- 0.47					
	24	45 Piscium	B	8.5	11.0	13.5	18.5	20.9	23.6	...	...	...	...	0. 20. 23.49			24.01				0. 20. 24.07			- 3.90				
	25	Radcliffe 97	B	...	18.5	22.4	39.8	34.0	37.8	...	...	...	...	0. 21. 37.65			37.56				0. 21. 37.62			- 4.09				
	26	Groombridge 64	B	...	20.1	24.1	31.6	35.5	39.5	...	...	...	...	0. 21. 39.31			39.22				0. 21. 39.28			- 4.09				
	27	Groombridge 77	B	40.1	44.3	48.6	56.8	0.9	5.1	...	...	...	...	0. 26. 5.08			4.89				0. 26. 4.95			- 4.20				
	28	Groombridge 99	B	8.0	12.9	17.8	27.6	...	...	...	...	...	6.9	0. 30. 37.44			37.03				0. 30. 37.09			- 4.44				
	29	Groombridge 118	B	52.2	58.1	4.1	16.0	22.0	28.0	...	...	...	...	0. 35. 27.85			27.18				0. 35. 27.24			- 4.78				
	30	π Cassiopeiae	B	...	...	...	42.8	46.7	57.1	0.8	4.5	8.1	0. 37. 46.59			46.56				0. 37. 46.63			- 4.08					
	31	δ Piscium	B	...	...	...	...	...	27.8	30.2	32.9	35.4	0. 43. 20.45			20.97	20.97	0.00		0. 43. 21.04			- 3.87					
	32	Groombridge 192	B	25.2	...	37.2	49.2	55.3	1.4	19.3	25.3	...	37.6	0. 52. 1.40			0.69				0. 52. 0.76			- 4.92				
	33	Piazzi O. 254	B	6.1	9.8	13.1	20.1	23.6	27.1	37.4	40.9	44.5	48.1	0. 55. 27.12			27.12				0. 55. 27.19			- 4.09				
	34	Groombridge 220	B	44.6	48.1	51.9	59.1	2.6	6.3	16.9	20.5	24.2	28.0	0. 57. 6.27			6.24				0. 57. 6.31			- 4.13				
	35	73 Piscium	B	17.6	20.1	22.5	27.6	...	...	...	...	...	...	0. 59. 32.50			33.05				0. 59. 33.12			- 3.84				
	36	75 Piscium	B	...	...	...	...	...	16.0	18.5	21.1	23.7	1. 1. 8.52			8.98				1. 1. 9.05			- 3.83					
	37	β Andromedæ	B	40.0	42.9	46.0	52.0	55.1	58.1	7.0	10.0	13.1	16.1	1. 3. 58.08			58.25	58.39	0.14		1. 3. 58.32			- 3.96				
	38	32 Cassiopeiae	B	...	...	...	48.4	54.2	0.1	17.0	...	...	...	1. 5. 0.05			59.43				1. 4. 59.50			- 4.89				
	39	Piazzi O. 312	B	25.2	30.8	36.6	47.9	53.6	59.5	16.5	22.1	28.0	34.0	1. 5. 59.51			58.89				1. 5. 58.96			- 4.90				
	40	37 Ceti	B	57.6	0.1	2.8	7.7	10.1	12.8	...	...	...	...	1. 9. 12.69			13.38				1. 9. 13.45			- 3.86				
	41	α Ursæ Minoris	B	59.1	9.9	21.5	34.0	45.2	57.1	6.9	...	...	...	1. 21. 33.39			8.00				1. 21. 8.07			- 46.19				
	42	Polaris	R.	30.4	37.5	44.1	50.1	12.9	24.1	28.4	40.0	44.9	49.1	1. 21. 56.42			41.85	40.04	- 1.81		1. 21. 41.92			- 46.19				
	43	Polaris	B	12.8	22.0	34.1	46.8	24.9	37.4	48.3	59.4	...	...	1. 22. 5.71			40.24	40.04	- 0.20		1. 21. 40.31			- 46.19				
	44	η Piscium	B	42.9	45.4	48.0	53.0	55.7	58.1	5.9	8.2	11.0	13.7	1. 25. 58.23			58.67	58.77	0.10		1. 25. 58.74			- 3.79				
Sept. 8	45	⊙ 1 L	CD	13.4	15.9	18.4	23.5	26.0	28.4	36.0	...	...	...	11. 8. 28.45	(- 2.47)		33.00			- 0.07	11. 9. 33.02							
	46	⊙ 2 L	CD	...	24.1	26.5	31.4	34.0	36.5	43.9	46.2	48.9	...	11. 10. 36.49			40.41	40.34	- 0.07	[+ 0.20]	1. 21. 40.45			- 46.49				
	47	Polaris S.P.	CD	0.2	11.3	19.3	4.1	10.2	18.2	27.1	35.9	46.0	51.8	13. 21. 13.27			56.58	56.77	0.19	0.06	14. 10. 56.76			- 1.74				
	48	Arcturus	B	40.4	43.1	45.8	50.9	53.6	56.2	4.0	6.6	9.2	12.0	14. 10. 56.22			32.04				19. 26. 32.26			+ 29.31				
	49	λ Ursæ Minoris	B	18.1	26.6	33.4	39.9	13.8	24.3	33.6	47.5	53.4	58.0	19. 27. 4.08			22.03	22.21	0.18		19. 41. 22.25			- 3.34				
	50	γ Aquilæ	B	6.4	9.0	11.6	16.5	19.0	21.6	29.0	31.5	34.0	36.6	19. 41. 21.56			22.03	22.21	0.18		.....							
	51	γ Aquilæ... (E&E)	B	29.4	44.5	59.3	14.5	29.5	44.5	59.6	...	...	...	19. 41. 21.57			22.04	22.21	0.17		.....							
	52	α Aquilæ	B	30.1	32.8	35.2	40.1	42.7	45.2	52.6	55.1	57.6	0.1	19. 45. 45.19			45.69	45.93	0.24		19. 45. 45.91			- 3.43				
	53	α Aquilæ... (E&E)	B	53.0	8.0	23.1	38.1	53.1	8.1	23.0	...	...	...	19. 45. 45.16			45.66	45.93	0.27		.....							

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 51 and 53, — 52^s.93 and — 52^s.93.

- 1, 2, 6, 8, 9, 10, 11, 13, 14, 15, 21, 22, 24, 25, 26, 27, 28, 29, 31, 32, 40, 49. Cloudy. 6. Observed over wires O, P, Q, R and Z. 12. Very faint; cloudy.
19. Observed over wire T with the transit-micrometer set to readings 34^r.600, 34^r.800, 35^r.000, 35^r.200, 35^r.400, 35^r.800, 36^r.000, 36^r.200, 36^r.400, 36^r.600.
41. Observed over wire T with the transit-micrometer set to readings 35^r.300, 35^r.400, 35^r.500, 35^r.600, 35^r.700, 35^r.800, 35^r.900.
42. Observed over wire R with the transit-micrometer set to readings 35^r.290, 35^r.343, 35^r.409, 35^r.455, 35^r.650, 35^r.751, 35^r.785, 35^r.882, 35^r.935, 35^r.986.
43. Observed over wire T with the transit-micrometer set to readings 34^r.600, 34^r.700, 34^r.800, 34^r.900, 36^r.300, 36^r.400, 36^r.500, 36^r.600. 45, 46. Very cloudy.
47. Observed over wire T with the transit-micrometer set to readings 35^r.722, 35^r.635, 35^r.544, 35^r.464, 35^r.088, 35^r.013, 34^r.950, 34^r.873, 34^r.788, 34^r.728.
49. Observed over wire T with the transit-micrometer set to readings 36^r.120, 36^r.

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 8, — 53^s.00.

2. Observed over wire W with the transit-micrometer set to readings $34^{\circ}896$, $35^{\circ}134$, $35^{\circ}396$, $35^{\circ}837$, $36^{\circ}040$, $36^{\circ}293$, $36^{\circ}727$, $36^{\circ}940$, $37^{\circ}082$, $37^{\circ}583$.
10, 27, 28, 30, 36. Observed in dark field with wires illuminated.

14. Observed over wire T with the transit-micrometer set to readings $35^{\circ}035$, $34^{\circ}950$, $34^{\circ}910$, $34^{\circ}852$, $34^{\circ}817$, $34^{\circ}738$, $34^{\circ}696$, $34^{\circ}652$, $34^{\circ}255$, $34^{\circ}193$.
19. Observed over wire R with the transit-micrometer set to readings $35^{\circ}054$, $35^{\circ}182$, $35^{\circ}339$, $35^{\circ}485$, $36^{\circ}085$, $36^{\circ}290$, $36^{\circ}455$, $36^{\circ}619$, $37^{\circ}151$, $37^{\circ}297$.
22. Observed over wire X with the transit-micrometer set to readings $37^{\circ}588$, $37^{\circ}458$, $37^{\circ}301$, $37^{\circ}156$, $36^{\circ}606$, $36^{\circ}485$, $36^{\circ}285$, $36^{\circ}164$.
24. Observed over wire P with the transit-micrometer set to readings $36^{\circ}041$, $35^{\circ}980$, $35^{\circ}914$, $35^{\circ}856$, $35^{\circ}686$, $35^{\circ}641$, $35^{\circ}575$, $35^{\circ}480$.
34. Observed over wire T with the transit-micrometer set to readings $33^{\circ}600$, $34^{\circ}100$, $34^{\circ}600$, $35^{\circ}100$, $36^{\circ}100$, $36^{\circ}600$, $37^{\circ}100$, $37^{\circ}600$.
35. Observed over wire T with the transit-micrometer set to readings $35^{\circ}600$, $34^{\circ}600$, $33^{\circ}600$, $32^{\circ}600$.
36. Observed over wires V and U.

41. Observed over wire X with the transit-micrometer set to readings $35^{\circ}001$, $35^{\circ}157$, $35^{\circ}260$, $35^{\circ}409$, $36^{\circ}065$, $36^{\circ}205$, $36^{\circ}358$, $36^{\circ}549$.
42. Observed over wires Y, X, W and U.
43. Observed over wires Z, Y, X, W and U.
45. Observed in partially

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Sept. 9	1	Groomb. 1778 S.P.	AC	...	14.6	31.1	48.0	37.9	56.1	12.9	46.1	3.0	...	23. 22. 38.38	+ 0.89	42.94			0.29	11. 22. 43.47	+ 0.98	
	2	Groomb. 1799 S.P.	AC	37.6	41.8	45.9	50.0	2.0	6.0	10.0	18.1	22.2	26.3	23. 29. 1.93	(- 2.81)	3.21			[+ 0.25]	11. 29. 3.74	- 1.61	
	3	Oeltz. Arg. (N.) 11921-28 S.P.	AC	...	...	...	...	34.0	42.2	49.9	5.3	12.8	20.4	23. 32. 33.63	[+ 12.24]	35.90				11. 32. 36.44	- 0.84	
	4	B.D. + 28° No. 4643	AC	44.1	46.9	49.9	55.4	58.2	1.1	9.4	12.6	14.9	17.9	23. 43. 1.02		1.25				23. 43. 1.79	+ 3.86	
	5	B.D. + 45° No. 4415	AC	36.2	...	43.1	50.1	53.4	57.0	7.4	10.6	...	18.0	23. 47. 57.03		56.99				23. 47. 57.53	+ 3.93	
	6	ω Piscium	AC	...	48.6	51.1	56.0	58.6	1.1	8.4	10.9	13.4	...	23. 54. 1.06		1.57	2.13	0.56		23. 54. 2.11	- 3.96	
	7	ω Piscium. (E&E)	AC	10.7	25.3	40.4	...	10.2	25.0	39.9	...	...	...	23. 54. 1.13		1.64	2.13	0.49		.....		
	8	Bradley 3203	AC	...	0.5	19.9	56.1	14.9	34.1	29.1	48.0	6.8	...	23. 57. 34.05		30.11				23. 57. 30.65	- 8.01	
	9	Groomb. 1858 S.P.	AC	...	...	...	...	10.8	30.0	48.5	25.0	43.7	1.8	0. 6. 11.31		16.25			0.54	12. 6. 16.79	+ 2.67	
	10	36 Piscium	AC	1.1	3.7	6.2	11.1	13.8	16.1	23.6	26.0	28.6	31.1	0. 11. 16.17		16.66				0. 11. 17.20	- 3.93	
	11	Bradley 1672	AC	41.8	51.4	58.9	6.0	26.9	33.6	39.9	46.2	...	...	0. 13. 41.15		1.41				12. 14. 1.95	+ 22.22	
	12	Groomb. 1879 S.P.	AC	...	...	39.4	2.3	11.9	35.5	59.1	45.1	...	...	0. 16. 11.75		17.89				12. 16. 18.43	+ 4.48	
	13	75 Ursæ Maj. S.P.	AC	...	47.1	52.6	57.1	11.8	16.6	21.6	...	...	...	0. 25. 11.62		13.12				12. 25. 13.66	- 1.11	
	14	Ceres	AC	19.9	22.2	24.8	...	...	35.1	...	45.0	47.6	50.5	0. 33. 35.04		35.78				0. 33. 36.33		
	15	π Cassiopeiae	AC	24.6	28.2	32.0	39.1	42.3	46.1	56.7	0.5	4.0	7.8	0. 37. 46.18		46.09				0. 37. 46.64	- 4.12	
	16	W. B. (2) O. 1029	AC	45.4	48.5	51.9	58.0	0.8	4.2	13.5	16.3	19.7	22.7	0. 42. 4.15		4.24				0. 42. 4.79	+ 3.99	
	17	μ Andromedæ	AC	43.2	46.4	49.5	55.8	59.0	2.0	11.3	14.2	17.5	20.8	0. 51. 2.02		2.11	2.65	0.54		0. 51. 2.66	- 4.02	
	18	Polaris	AC	6.0	14.5	22.6	29.4	2.9	11.4	20.0	31.4	...	...	1. 22. 5.84		38.93	41.26	2.33		1. 21. 39.48	- 47.41	
Sept. 11	19	δ Aquilæ	R	2.5	5.0	7.5	12.3	14.9	17.4	24.8	27.4	30.0	32.2	19. 20. 17.44	(- 3.18)	17.87	18.63	0.76	0.68	.....		
	20	δ Aquilæ. (E&E)	R	28.9	43.8	...	...	...	43.0	58.0	...	...	...	19. 20. 17.23	[+ 10.16]	17.66	18.63	0.97	[+ 0.15]	.....		
	21	λ Ursæ Minoris	R	20.0	34.1	46.2	58.1	14.9	46.1	0.2	15.8	26.9	38.9	19. 26. 55.65		26.24	27.02	0.78		.....		
	22	ε Sagittarii	R	32.8	35.2	38.0	43.2	45.9	48.2	56.0	58.5	1.1	3.7	19. 34. 48.30		48.93	49.81	0.88		.....		
	23	Radcliffe 2020 S.P.	R	...	...	...	...	7.6	44.0	19.2	29.7	...	41.5	19. 51. 8.11		16.06				7. 51. 16.86	- 10.30	
	24	Groomb. 1119 S.P.	R	19.0	39.9	57.4	12.0	27.5	52.2	5.7	19.1	33.1	48.5	19. 53. 37.63		6.58				7. 54. 7.38	- 30.03	
	25	Carrington 1144 S.P.	R	...	...	...	...	...	...	...	35.1	53.2	11.3	19. 54. 23.81		28.00				7. 54. 28.80	- 6.37	
	26	θ Aquilæ	R	43.9	46.2	48.8	53.6	56.1	58.8	6.0	8.4	11.0	13.6	20. 5. 58.68		59.15	59.94	0.79		.....		
	27	θ Aquilæ. (E&E)	R	10.3	25.2	...	...	...	24.5	39.3	...	...	...	20. 5. 58.62		59.09	59.94	0.85		.....		
	28	α² Capricorni	AC	4.2	6.8	9.3	14.1	16.8	19.5	26.9	29.6	32.0	34.6	20. 12. 19.42		20.00	21.03	1.03	0.91†	.....		
	29	β Capricorni	AC	57.1	59.6	2.1	7.4	9.9	12.5	20.0	22.6	25.2	28.0	20. 15. 12.48		13.07	14.11	1.04		.....		
	30	Lalande F. 1339 S.P.	R	...	...	...	0.5	1.3	22.0	43.1	24.1	44.6	5.1	20. 41. 1.42		6.19			0.68	8. 41. 7.00	- 5.07	
	31	Lalande F. 1347 S.P.	R	40.8	1.7	23.1	43.8	44.5	5.9	26.6	7.6	28.2	48.9	20. 43. 44.80		49.59				8. 43. 50.40	- 4.97	
	32	Radcliffe 189 S.P.	R	...	...	...	...	...	...	10.1	45.8	20.9	51.4	20. 45. 49.93		57.82				8. 45. 58.63	- 6.35	
	33	α Capricorni	R	14.7	17.2	19.8	...	...	30.1	...	40.5	43.1	45.7	21. 16. 30.19		30.83	31.63	0.80		.....		
	34	Groombridge 3548	R	40.2	53.5	6.1	18.9	33.0	43.6	0.4	13.0	24.4	36.8	21. 20. 30.09		21.55				21. 20. 22.36	- 1.57	
	35	Groomb. 1571 S.P.	R	12.0	15.9	20.0	23.5	...	38.5	42.2	50.0	53.8	57.6	21. 35. 34.77		35.76				9. 35. 36.57	- 2.37	
	36	B.D. - 20° No. 6293	R	40.1	42.9	45.4	50.5	53.3	55.6	3.8	6.3	9.0	11.8	21. 41. 55.91		56.58				21. 41. 57.40	- 4.42	
	37	ε Aquarii	R	46.5	49.1	51.6	56.7	59.2	1.8	9.1	11.6	14.1	16.8	22. 5. 1.69		2.26				22. 5. 3.08	- 4.22	
	38	Bradley 2930	R	10.9	13.3	15.9	20.8	23.2	25.9	33.3	36.0	38.4	40.9	22. 11. 25.90		26.45				22. 11. 27.27	- 4.18	
	39	Oeltz. Arg. (N.) 23923	R	...	34.6	39.1	47.9	51.9	56.8	9.4	13.9	18.1	...	22. 16. 56.55		56.19				22. 16. 57.01	- 3.48	
	40	ζ Pegasi	R	4.0	...	9.2	14.1	...	19.2	26.5	29.1	31.6	...	22. 36. 19.14		19.49	20.32	0.83		.....		
	41	78 Aquarii	R	56.9	59.4	2.0	6.9	9.4	12.0	19.4	21.9	24.2	26.9	22. 49. 11.94		12.47				22. 49. 13.29	- 4.16	
	42	B. F. 3183	R	0.6	3.1	5.7	10.5	13.0	15.6	22.9	25.4	28.0	30.5	23. 10. 15.57		16.07				23. 10. 16.89	- 4.10	
	43	Groomb. 1766 S.P.	R	42.0	46.2	50.4	54.2	6.2	10.4	14.5	22.5	26.5	30.8	23. 15. 6.31		7.37				11. 15. 8.20	- 1.71	
	44	11 Piscium	R	54.6	57.0	59.5	4.4	6.9	9.4	16.7	19.2	21.7	24.1	23. 23. 9.39		9.86				23. 23. 10.69	- 4.07	
Sept. 12	45	δ Aquilæ	WB	2.2	4.9	7.3	...	...	...	26.9	29.4	32.0	...	19. 20. 17.15	(- 2.18)	17.74	18.61	0.87	0.89	.....		
	46	α Vulpeculæ	WB	8.0	10.5	13.3	18.6	21.5	24.1	32.1	34.9	37.7	40.4	19. 24. 24.15	[+ 12.70]	24.50	25.55	1.05	[+ 0.10]	.....		
	47	λ Ursæ Minoris	WB	36.0	47.8	54.8	5.7	11.9	23.7	30.4	42.0	50.2	5.2	19. 26. 57.13		24.90	25.77	0.87		.....		
	48	γ Aquilæ	WB	5.5	8.1	10.6	15.8	18.1	20.7	...	...	...	...	19. 41. 20.68		21.19	22.16	0.97		.....		
	49	α Aquilæ	WB	29.4	31.9	34.2	39.4	41.9	44.2	51.9	54.2	56.9	59.4	19. 45. 44.38		44.91	45.88	0.97		.....		
	50	Groomb. 1119 S.P.	WB	17.1	24.1	33.9	46.8	52.4	58.0	3.9	9.7	16.1	...	19. 53. 34.68		6.67				7. 54. 7.64	- 31.14	
	51	Carrington 1144 S.P.	WB	27.6	39.0	47.1	52.4	...	...	...	...	...	...	19. 54. 23.73		28.47				7. 54. 29.44	- 6.52	
	52	Lalande F. 1347 S.P.	WB	51.5	0.8	10.2	20.4	32.1	52.0	2.9	12.7	23.5	34.2	20. 43. 42.03		47.45				8. 43. 48.43	- 5.12	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 7, 20, and 27, — 54^s.15 : — 56^s.25 : and — 56^s.26.

11. Observed over wire P with the transit-micrometer set to readings 35^s.455, 35^s.362, 35^s.264, 35^s.184, 34^s.924, 34^s.848, 34^s.770, 34^s.685.
 14. Observed in partially illuminated field.
 18. Observed over wire O with the transit-micrometer set to readings 33^s.702, 33^s.770, 33^s.839, 33^s.900, 34^s.193, 34^s.271, 34^s.350, 34^s.435.
 21. Observed over wire T with the transit-micrometer set to readings 34^s.910, 35^s.008, 35^s.098, 35^s.186, 35^s.273, 35^s.322, 35^s.447, 35^s.738, 35^s.816, 35^s.917.
 24. Observed over wire U with the transit-micrometer set to readings 36^s.387, 36^s.230, 36^s.091, 35^s.978, 35^s.860, 35^s.675, 35^s.572, 35^s.478, 35^s.374, 35^s.260.
 34. Observed over wire V with the transit-micrometer set to readings 34^s.757, 35^s.065, 35^s.368, 35^s.683, 36^s.022, 36^s.279, 36^s.679, 36^s.976, 37^s.236, 37^s.524.
 35. Very faint; cloudy.
 47. Observed over wire V with the transit-micrometer set to readings 34^s.940, 35^s.044, 35^s.067, 35^s.140, 35^s.180, 35^s.276, 35^s.313, 35^s.418, 35^s.464, 35^s.555.
 50. Observed over wire U with the transit-micrometer set to readings 35^s.453, 35^s.413, 35^s.344, 35^s.257, 35^s.208, 35^s.154, 35^s.125, 35^s.106, 35^s.034.
 51. Very cloudy. Observed over wire Q with the transit-micrometer set to readings 35^s.985, 35^s.325, 35^s.076, 34^s.580.
 52. Observed over wire T with the transit-micrometer set to readings 38^s.100, 37^s.600, 37^s.100, 36^s.600, 36^s.100, 35^s.100, 34^s.600, 34^s.100, 33^s.600, 33^s.100.
13. Faint.
 16. Observed in dark field with wires illuminated.
 19, 20, 34. Cloudy.

1897. 3. 11. 58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[151]

MONTH. DAY. 1897.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Sept. 13	1	ζ Ophiuchi	AC	...	14.0	16.5	21.6	24.0	26.6	34.0	36.6	39.1	...	16. 31. 26.60	+ 0.89	27.35	28.53	1.18	1.05	.....	
	2	ζ Herculis	AC	...	...	...	...	19.5	22.2	30.9	33.9	36.7	39.8	16. 37. 22.33	(- 2.18)	22.58	23.79	1.21	[+ 0.14]	.....	
	3	κ Ophiuchi	AC	...	...	...	...	...	...	52.9	55.5	58.0	0.5	16. 52. 45.53	[+ 12.84]	46.06	47.12	1.06	.....		
	4	Δ I L.	AC	49.5	52.2	55.2	1.0	4.0	6.9	15.5	18.4	21.3	24.2	16. 54. 6.86		7.85				16. 55. 24.18	
	5	Castor.....	B	41.9	44.5	47.8	53.7	56.3	...	8.0	10.8	13.9	16.8	7. 27. 59.35	[+ 12.98]	59.60	0.74	1.14	1.06	7. 28. 0.72	- 2.87
	6	α Hydræ	B	...	15.7	18.2	23.1	25.6	28.1	35.6	38.0	40.6	...	9. 22. 28.16		28.89	30.12	1.23	[+ 0.19]	9. 22. 30.02	- 1.55
Sept. 14	7	π Ursæ Maj. S.P..	B	33.3	39.1	44.8	50.6	7.9	14.0	19.5	30.9	36.6	42.3	20. 31. 7.81	+ 1.03	9.61				8. 31. 10.83	- 3.42
	8	Bradley 2667	B	2.0	...	6.9	12.0	14.5	17.2	24.9	27.4	...	32.5	20. 34. 17.22	(- 2.12)	17.69				20. 34. 18.91	- 3.40
	9	α Delphini	B	34.8	37.2	40.0	45.0	47.5	50.1	57.7	0.2	2.8	5.5	20. 34. 50.12		50.59	51.81	1.22		20. 34. 51.81	- 3.40
	10	Piazzi XX. 297...	B	32.0	34.4	37.0	42.0	44.3	46.9	54.3	56.8	59.2	1.8	20. 41. 46.91		47.62				20. 41. 48.84	- 3.87
	11	3 Aquarii	B	...	4.5	7.0	12.0	14.4	16.9	24.2	26.9	29.4	...	20. 42. 16.96		17.67				20. 42. 18.89	- 3.87
	12	Oeltz. Arg. (N.) 21115	B	...	...	...	59.6	3.5	7.3	18.9	...	...	...	20. 44. 7.41		7.32				20. 44. 8.54	- 2.76
	13	Groombridge 3290	B	...	...	...	...	...	39.6	43.3	47.4	51.3	20. 44. 28.07		27.98				20. 44. 29.20	- 2.77	
	14	μ Aquarii	B	...	...	...	...	14.6	17.1	19.8	34.7	49.8	20. 47. 4.74		5.50	6.62	1.12		20. 47. 6.72	- 3.98	
	15	32 Vulpeculæ.....	B	52.5	55.2	58.1	3.6	6.4	9.3	17.6	...	...	...	20. 50. 9.25		9.57	10.86	1.29		20. 50. 10.80	- 3.24
	16	ξ Cygni	B	50.1	53.5	56.9	3.7	7.1	10.6	20.8	24.0	27.5	31.0	21. 1. 10.57		10.62				21. 1. 11.85	- 3.02
	17	γ Equulei	B	4.0	6.2	9.0	14.0	16.4	19.0	26.3	28.9	31.5	34.0	21. 5. 18.97		19.51				21. 5. 20.74	- 3.63
	18	6 Equulei	B	14.9	17.5	20.0	24.9	27.5	30.0	37.4	39.9	42.2	44.9	21. 5. 29.96		30.50				21. 5. 31.73	- 3.63
	19	ζ Cygni	B	15.1	18.0	20.9	26.5	29.5	32.2	40.6	43.6	46.5	49.5	21. 8. 32.28		32.57	33.87	1.30		21. 8. 33.80	- 3.30
	20	τ Cygni	B	21.4	24.5	27.8	33.9	37.0	40.1	49.5	52.4	55.6	58.9	21. 10. 40.16		40.33				21. 10. 41.56	- 3.18
	21	σ Cygni	B	2.6	5.9	8.9	15.1	18.3	21.8	31.0	34.1	37.4	40.6	21. 13. 21.62		21.77				21. 13. 23.00	- 3.17
	22	α Cephei	B	36.1	41.2	46.7	57.1	...	...	...	...	...	...	21. 16. 7.78		7.29				21. 16. 8.52	- 2.81
	23	Groombridge 3444	B	29.8	32.9	36.1	...	...	...	...	2.1	...	...	21. 18. 49.16		49.29				21. 18. 50.52	- 3.19
	24	W. B. (2) XXI. 418	B	51.9	11.3	30.9	34.0	37.2	...	...	...	...	...	21. 18. 50.16		50.29				21. 18. 51.52	- 3.19
	25	Groombridge 3492	B	...	9.8	14.3	...	...	32.0	...	...	...	...	21. 28. 32.33		32.05				21. 28. 33.28	- 3.01
	26	Groombridge 3510	B	7.4	12.0	16.2	26.0	30.0	34.9	...	...	...	...	21. 32. 34.72		34.44				21. 32. 35.67	- 3.05
	27	Oeltz. Arg. (N.) 22571	B	...	...	...	29.4	34.0	38.8	52.0	56.9	1.2	6.0	21. 33. 38.69		38.41				21. 33. 39.64	- 3.06
	28	41 Capricorni	B	...	...	...	...	...	15.7	18.4	21.1	24.0	...	21. 36. 7.73		8.67				21. 36. 9.90	- 4.53
	29	Lalande 42322	B	59.6	2.1	4.9	10.1	12.8	15.5	23.2	26.0	28.5	31.3	21. 38. 15.44		16.33				21. 38. 17.56	- 4.41
	30	B.D.—20° No. 6293	B	39.6	42.1	44.7	50.0	52.5	55.3	3.2	5.8	8.5	11.1	21. 41. 55.32		56.21				21. 41. 57.44	- 4.41
	31	16 Pegasi	B	5.4	8.0	10.6	16.1	18.9	21.7	29.8	32.5	35.4	38.1	21. 48. 21.69		22.05	23.26	1.21		21. 48. 23.28	- 3.54
	32	α Aquarii	B	...	...	18.8	23.6	26.1	28.6	36.0	38.5	...	...	22. 0. 28.65		29.31	30.47	1.16		22. 0. 30.54	- 3.98
	33	ι Aquarii	B	...	...	...	...	...	51.5	58.9	1.5	4.1	6.9	22. 0. 51.46		52.28				22. 0. 53.51	- 4.27
	34	ε Aquarii	B	46.0	48.5	51.1	...	58.6	1.1	...	...	...	...	22. 5. 1.13		1.91				22. 5. 3.14	- 4.22
	35	Bradley 2930	B	10.2	12.8	15.3	20.1	22.9	25.4	32.6	35.1	37.8	40.2	22. 11. 25.28		26.04				22. 11. 27.28	- 4.18
	36	Lalande 19985 S.P.	B	...	...	...	...	32.4	36.5	40.8	49.3	53.5	58.0	22. 13. 32.33		33.70				10. 13. 34.94	- 2.19
	37	Oeltz. Arg. (N.) 23923	B	29.8	34.1	38.6	47.1	51.6	56.1	9.0	13.5	17.9	22.1	22. 16. 56.05		55.81				22. 16. 57.05	- 3.45
	38	β Piscis Australis	B	20.6	23.5	26.5	32.1	35.3	38.2	47.0	50.0	52.9	55.9	22. 25. 38.24		39.32				22. 25. 40.56	- 4.88
	39	Piazzi X. 96 S.P..	B	2.8	...	10.7	14.5	25.9	29.8	33.5	40.9	...	48.9	22. 27. 25.83		27.06				10. 27. 28.30	- 2.09
	40	Piazzi X. 100 S.P.	B	37.0	...	44.7	...	59.9	...	...	15.0	...	22.8	22. 27. 59.86		1.09				10. 28. 2.33	- 2.07
	41	Lacaille 9190	B	53.2	56.2	59.1	5.0	8.1	11.1	20.0	22.9	26.0	29.0	22. 32. 11.11		12.22				22. 32. 13.46	- 4.91
	42	Piazzi XXII. 186	B	...	...	35.3	40.2	42.9	45.6	52.9	55.6	...	...	22. 35. 45.47		45.96				22. 35. 47.20	- 3.83
	43	Piazzi XXII. 195	B	...	...	...	...	...	51.4	58.9	1.5	4.0	6.6	22. 36. 51.37		51.86				22. 36. 53.10	- 3.84
	44	W. B. XXII. 783.	B	49.1	51.6	54.1	59.2	1.8	4.4	12.0	14.4	17.1	19.7	22. 39. 4.38		4.87				22. 39. 6.11	- 3.84
	45	Groombridge 3878	B	...	...	...	...	...	13.6	17.6	21.6	25.6	...	22. 41. 2.07		1.96				22. 41. 3.20	- 3.64
	46	τ Aquarii	B	...	...	3.6	8.5	11.2	13.8	21.4	23.9	...	...	22. 42. 13.78		14.60				22. 42. 15.84	- 4.31
	47	* N.P.D. 104° 38'	B	...	...	5.4	10.2	12.9	15.4	22.9	25.5	...	...	22. 42. 15.43		16.25				22. 42. 17.49	- 4.31
	48	Groombridge 1698 S.P.	B	35.1	39.1	43.1	47.1	58.3	2.2	6.2	14.0	18.0	22.0	22. 45. 58.45		59.72				10. 46. 0.96	- 1.95
	49	Groombridge 1702 S.P.	B	...	53.2	58.9	4.1	20.6	26.2	32.0	42.9	48.5	...	22. 48. 20.69		22.43				10. 48. 23.67	- 1.80
	50	Groombridge 3937	B	16.7	21.7	26.5	36.1	41.0	46.0	0.3	5.2	10.1	15.1	22. 52. 45.94		45.56				22. 52. 46.80	- 3.79
	51	* N.P.D. 30° 38'	B	24.0	28.8	33.6	43.3	48.1	53.0	7.5	12.2	17.1	22.1	22. 52. 53.04		52.66				22. 52. 53.90	- 3.79
	52	Oeltz. Arg. (N.) 11438 S.P.	B	30.0	36.7	43.4	50.1	9.4	16.0	...	...	...	...	23. 2. 9.31		11.30				11. 2. 12.54	- 1.51

Correction for passage of Semidiameter, No. 4, + 75".14.

4. Faint. Correction to R.A. on true meridian, + 0".04.
15, 21, 22, 23, 24, 25, 26, 34. Cloudy.

5, 6, 41. Very faint; cloudy.
24. Observed over wires M, N, O, P and Q.

14. Observed over wires V, W, X, Y and Z.
27. Observed in dark field with wires illuminated.

1898
MONTH
and
DAY.
5632

[5632]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock ap- parently Slow.	Adopted Clock slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).					h	m	s		h	m	s
Sept. 14	1	Piazzi X. 246 S.P.	B	...	...	...	...	...	...	3.4	11.9	16.2	20.2	23. 2. 54.73	+ 1.03	56.11			1.06	11. 2. 57.35	-	1.80					
	2	Lalande F. 1812 S.P.	B	23.0	29.7	36.1	42.9	...	...	...	...	...	...	23. 3. 2.19	(- 2.12)	4.19			[+ 0.19]	11. 3. 5.43	-	1.50					
	3	Piazzi X. 247 S.P.	B	...	...	25.2	29.5	42.1	46.5	50.8	59.2	...	...	23. 3. 42.13	[+ 12.98]	43.51				11. 3. 44.75	-	1.79					
	4	Radcliffe 5996 ...	B	35.0	38.1	41.5	47.8	50.9	...	3.8	6.9	10.1	13.5	23. 7. 54.23		54.37				23. 7. 55.61	-	3.78					
	5	Groombridge 4012	B	...	57.1	0.2	...	...	...	...	26.0	29.0	...	23. 8. 13.14		13.28				23. 8. 14.52	-	3.78					
	6	Groomb. 1766 S.P.	B	41.4	45.6	49.8	53.9	5.9	10.0	14.0	22.0	26.0	30.0	23. 15. 5.80		7.12				11. 15. 8.36	-	1.74					
	7	Oeltz. Arg. (N.) 25557	B	...	...	13.4	23.4	28.4	33.7	48.6	53.6	...	...	23. 20. 33.62		33.19				23. 20. 34.44	-	4.07					
	8	Groombridge 4062	B	44.0	...	...	4.0	9.0	14.1	...	34.1	39.3	...	23. 21. 14.17		13.73				23. 21. 14.98	-	4.08					
	9	Groombridge 4075	B	32.1	35.6	39.1	45.9	49.1	52.6	2.6	6.0	9.6	13.1	23. 24. 52.62		52.68				23. 24. 53.93	-	3.87					
	10	Groombridge 4079	B	20.9	24.1	27.8	34.2	37.8	41.3	51.4	54.7	58.1	1.6	23. 25. 41.24		41.30				23. 25. 42.55	-	3.87					
	11	14 Piscium	B	...	...	...	...	...	...	57.7	0.1	2.6	5.2	23. 28. 50.35		51.02				23. 28. 52.27	-	4.09					
	12	Groomb. 1807 S.P.	B	50.6	54.8	58.8	2.8	14.4	...	...	...	...	...	23. 32. 14.38		15.66				11. 32. 16.91	-	1.64					
	13	Lalande 46302 ...	B	...	...	...	...	...	44.6	56.4	0.4	4.4	8.5	23. 32. 44.60		44.47				23. 32. 45.72	-	3.99					
	14	Oeltz. Arg. (N.) 25964	B	...	44.0	52.4	8.4	16.8	25.3	49.6	57.8	6.0	...	23. 38. 25.20		23.97				23. 38. 25.22	-	4.95					
	15	δ Sculptoris	B	15.8	18.6	21.7	27.1	30.0	32.9	41.2	44.0	46.8	49.9	23. 43. 32.84		33.86	35.15	1.29		23. 43. 35.11	-	4.57					
	16	Groombridge 4213	B	...	55.3	2.1	15.5	22.0	29.0	48.2	54.9	2.2	...	23. 58. 28.78		27.92				23. 58. 29.17	-	4.82					
	17	Groombridge 4225	B	19.9	26.1	33.1	46.3	53.0	59.9	19.8	26.3	33.1	40.0	23. 59. 59.85		58.99				0. 0. 0.24	-	4.84					
	18	Oeltz. Arg. (N.) 33	B	...	...	14.5	22.2	26.1	30.3	41.9	46.0	...	...	0. 4. 30.25		30.15	56.71	1.26	1.25	0. 4. 31.40	-	4.15					
	19	γ Pegasi	B	...	...	...	...	...	55.0	2.6	5.1	7.6	10.2	0. 7. 54.97		55.45				0. 7. 56.70	-	3.96					
	20	36 Piscium	B	...	...	...	...	...	...	22.9	25.6	28.0	30.1	0. 11. 15.50		16.07				0. 11. 17.32	-	3.98					
	21	45 Piscium	B	7.5	9.8	12.4	17.3	19.8	22.4	29.7	32.1	34.8	37.3	0. 20. 22.35		22.92				0. 20. 24.17	-	3.99					
	22	Oeltz. Arg. (N.) 425	B	...	...	...	1.8	5.4	9.6	20.6	...	...	...	0. 25. 9.43		9.36				0. 25. 10.61	-	4.23					
	23	Groombridge 72..	B	...	...	...	17.8	21.6	25.6	36.9	...	...	...	0. 25. 25.56		25.49				0. 25. 26.74	-	4.23					
	24	Groombridge 99..	B	...	11.6	16.6	...	...	36.5	50.9	...	...	...	0. 30. 36.31		35.93				0. 30. 37.18	-	4.59					
	25	Oeltz. Arg. (N.) 599	B	...	...	...	...	...	27.9	32.2	45.4	49.5	...	0. 34. 32.24		31.99				0. 34. 33.24	-	4.46					
	26	Groombridge 192	B	...	...	36.2	48.2	54.2	0.5	18.1	24.0	...	...	0. 52. 0.32		59.63				0. 52. 0.89	-	5.13					
	27	Groombridge 220	B	0.1	22.0	47.1	...	1.7	5.3	16.0	19.5	...	...	0. 57. 5.23		5.22				0. 57. 6.48	-	4.28					
	28	β Andromedæ ...	B	...	...	...	...	54.0	57.0	6.0	9.0	12.0	15.1	1. 3. 57.03		57.24	58.52	1.28		1. 3. 58.50	-	4.09					
	29	Polaris	B	26.9	32.2	37.7	43.4	10.6	28.2	34.0	50.2	55.6	22.7	1. 22. 8.67		42.51	43.64	1.13									
	30	β Arietis	B	...	42.8	45.5	50.5	53.4	56.0	3.8	6.2	9.0	...	1. 48. 55.95		56.37	57.50	1.13		1. 48. 57.63	-	3.94					
	31	Regulus	R	34.9	37.5	40.1	44.9	47.4	50.0	57.6	0.0	2.7	5.3	10. 2. 50.08	(- 2.94)	50.50	51.85	1.35	1.21								
	32	γ Leonis	R	58.8	1.4	4.0	9.2	12.0	14.5	22.2	25.1	27.7	30.5	10. 14. 14.58	[+ 12.01]	14.91	16.28	1.37	[+ 0.20]								
Sept. 15	33	Fomalhaut	R	39.5	42.5	...	50.9	54.0	56.7	5.2	...	10.9	13.7	22. 51. 56.72		57.68	58.98	1.30									
	34	α Pegasi	R	...	...	...	...	34.2	36.9	44.5	47.0	49.7	52.2	22. 59. 36.90		37.30	38.64	1.34									
	35	Groombridge 4231	R	19.6	23.8	28.0	36.0	40.0	44.1	56.0	0.2	4.5	8.6	0. 0. 44.14		43.89			1.41	0. 0. 45.30	-	4.18					
	36	34 Piscium	R	28.5	30.9	33.5	38.5	41.1	43.6	51.1	53.5	56.0	58.6	0. 4. 43.57		44.02				0. 4. 45.43	-	3.98					
	37	Groomb. 1860 S.P.	R	...	...	...	...	...	...	13.3	59.6	24.7	48.0	0. 8. 24.43		30.56				12. 8. 31.97	+ 4.57						
	38	Groomb. 1879 S.P.	R	...	...	...	1.9	10.9	35.3	58.1	44.4	8.2	31.7	0. 16. 10.99		17.00				12. 16. 18.41	+ 4.73						
	39	Piazzi O. 79	R	30.6	33.4	36.4	42.4	45.4	48.5	57.2	0.1	3.3	6.1	0. 22. 48.39		49.40				0. 22. 50.81	-	4.55					
	40	Ceres	R	47.1	49.5	52.1	57.1	59.7	2.3	9.9	12.3	14.9	17.5	0. 29. 2.28		3.02				0. 29. 4.43	-	5.47					
	41	Oeltz. Arg. (N.) 570-1	R	44.0	51.2	58.7	13.3	20.8	28.2	50.1	57.9	4.9	12.6	0. 33. 28.28		27.14				0. 33. 28.55	-	5.47					
	42	Piazzi O. 162	R	...	...	7.9	16.3	20.3	24.9	37.5	41.6	...	...	0. 39. 24.83		24.53				0. 39. 25.95	-	4.45					
	43	Carrington 104..	R	...	...	...	...	...	6.5	28.8	56.2	25.2	53.4	0. 45. 6.71		0.68				0. 45. 2.10	-	13.10					
	44	Carrington 124..	R	...	...	...	52.4	15.8	40.1	50.4	14.7	38.8	3.4	0. 52. 40.27		35.18				0. 52. 36.60	-	11.93					
	45	75 Piscium	R	52.2	54.6	57.2	2.3	4.7	7.2	14.9	17.4	20.0	22.5	1. 1. 7.34		7.76				1. 1. 9.18	-	3.96					
	46	β Andromedæ ...	R	38.9	41.9	44.7	50.9	53.9	56.9	5.8	8.9	11.9	15.1	1. 3. 56.94		57.07	58.54	1.47									
	47	α Ursæ Minoris..	R	51.4	7.4	18.9	29.3	39.9	50.2	10.0	25.1	33.2	44.2	1. 21. 33.34		7.06				1. 21. 8.48	-	51.36					
	48	Polaris	R	6.1	18.0	31.5	41.6	51.5	0.4	8.1	15.9	25.8	34.4	1. 22. 7.94		41.57	45.21	3.64		1. 21. 42.99	-	51.36					
	49	η Piscium	R	41.8	44.4	46.9	52.0	54.5	57.1	4.6	7.3	9.9	12.4	1. 25. 57.13		57.53	58.92	1.39									
	50	α Hydræ	CD	...	...	...	22.9	25.6	28.0	35.5	38.0	40.4	43.0	9. 22. 28.05	(- 1.68)	28.76	30.15	1.39	1.40	9. 22. 30.22	-	1.58					
	51	Regulus	CD	34.5	37.2	40.0	44.8	47.4	50.0	57.4	0.0	2.4	5.1	10. 2. 49.92		50.41	51.87	1.46	[+ 0.16]	10. 2. 51.88	-	1.87					
	52	γ Leonis	B	58.4	1.1	3.9	9.0	11.6	14.2	22.1	24.8	27.4	30.1	10. 14. 14.30		14.71	16.30	1.59	1.51	10. 14. 16.29	-	1.96					
	53	β Ursæ Majoris ..	CD	7.1	11.8	16.2	25.5	30.0	34.8	48.0	52.5	57.1	1.9	10. 55. 34.56		34.34			1.40	10. 55. 35.81	-	1.86					

18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 34. Cloudy.
29. Observed over wire O with the transit-micrometer set to readings 33° 853, 33° 906, 33° 949, 34° 010, 34° 240, 34° 390, 34° 440, 34° 600, 34° 630, 34° 875.
33. Faint; cloudy.
47. Observed over wire Q with the transit-micrometer set to readings 35° 553, 35° 681, 35° 768, 35° 845, 35° 938, 36° 030, 36° 225, 36° 310, 36° 418, 36° 522.
48. Observed over wire R with the transit-micrometer set to readings 34° 970, 35° 083, 35° 205, 35° 270, 35° 365, 35° 457, 35° 506, 35° 582, 35° 660, 35° 738.
27. Observed over wires M, N, P, S, T, U and V.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.		Correction for Re- duction to Mean R.A. 1896-0.																					
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m		s	h	m	s																	
																												a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Sept. 16	1	☉ 1 L.....	CD	56.5	58.9	1.4	6.2	8.9	11.4	18.5	21.1	23.7	26.1	11. 37. 11.31	+ 1.03	} 15.80	}	}	1.40	[+ 0.16]	11. 38. 17.28	- 1.50																						
	2	☉ 2 L.....	CD	4.1	6.8	9.2	14.1	16.5	19.1	26.2	28.9	31.5	34.0	11. 39. 19.08	(- 1.68)																													
	3	γ Ursæ Majoris...	CD	56.3	0.5	4.9	13.2	17.6	...	34.2	38.5	42.9	47.3	11. 48. 21.78	[+ 12.01]																													
	4	Venus 1 L.....	CD	34.0	36.5	39.0	...	...	...	...	...	...	...	12. 48. 48.93		} 49.88	}	}	1.51	18. 33. 27.23	- 2.20																							
	5	Venus 2 L.....	CD	34.5	37.1	39.5	...	...	...	...	...	...	...	12. 48. 49.49																														
	6	Mercury 1 L.....	CD	39.4	42.0	44.4	49.5	52.0	54.4	2.0	4.6	7.1	9.6	13. 10. 54.54																														
	7	Polaris S.P.	CD	6.7	11.9	17.8	34.1	58.6	13.0	19.4	30.0	44.9	8.8	13. 21. 17.42		} 45.46	}	}	1.61	1.40	19. 26. 21.92	+ 39.57																						
	8	α Lyrae.....	B	6.4	9.5	12.8	19.1	22.1	25.4	34.9	38.0	41.1	44.4	18. 33. 25.42																														
	9	α Lyrae.....(E&E)	B	29.9	49.0	8.0	27.0	46.1	5.0	24.1	...	...	...	18. 33. 25.42																														
	10	λ Ursæ Minoris...	CD	20.7	34.0	47.5	55.3	12.9	22.9	36.1	46.1	58.2	5.4	19. 26. 49.03		} 22.11	}	}	1.63	1.51	19. 41. 22.12	- 3.24																						
	11	γ Aquilæ	B	4.9	7.3	9.9	14.9	17.4	20.0	27.4	29.9	32.5	35.1	19. 41. 19.97																														
	12	γ Aquilæ ..(E&E)	B	36.1	51.4	6.5	21.6	36.7	51.7	6.8	...	...	...	19. 41. 19.90																														
	13	α Aquilæ	B	28.6	31.1	33.6	38.6	41.1	43.8	51.0	53.6	56.0	58.6	19. 45. 43.64		} 45.83	}	}	1.65	1.40	19. 45. 45.82	- 3.33																						
	14	Groombridge 2961	CD	2.5	5.6	8.9	15.1	18.2	21.4	30.8	34.0	37.1	40.3	19. 49. 21.44																														
	15	B.D.+62° No. 1764	CD	...	...	...	...	...	29.5	45.3	50.5	55.9	1.4	19. 50. 29.55																														
	16	Groombridge 2983	CD	...	...	...	...	...	35.1	40.5	45.7	1.5	6.9	12.1	17.6	19. 51. 45.80		} 51.79	}	}	1.55	1.40	19. 57. 45.95	- 2.29																				
	17	Groombridge 2991	CD	...	55.7	0.4	9.8	14.4	19.2	32.9	37.6	42.1	...	19. 53. 19.10																														
	18	☉ 1 L.....	CD	17.4	20.1	23.1	28.5	31.5	34.1	42.5	45.3	48.1	50.9	19. 56. 34.19																														
	19	Groombridge 3075	CD	4.9	9.1	13.5	22.0	26.1	30.5	43.4	47.5	51.7	56.1	20. 7. 30.54		} 5.16	}	}	1.72	1.56	20. 7. 31.91	- 2.29																						
	20	α Capricorni.....	CD	...	...	...	...	...	...	2.0	4.6	7.1	9.9	20. 11. 56.86																														
	21	α Capricorni.....	CD	...	...	...	...	...	...	...	...	...	...	20. 12. 18.65																														
	22	Lalande 39835 ...	CD	...	...	...	...	...	...	...	...	...	...	20. 23. 12.19		} 5.16	}	}	1.72	1.56	20. 23. 11.09	- 0.01																						
	23	Piazzi XX. 177...	CD	0.4	2.9	5.4	10.2	12.9	15.5	22.9	25.5	28.0	30.5	20. 26. 15.46																														
	24	Bradley 2638.....	CD	1.4	3.9	6.4	11.4	13.9	16.4	23.9	26.4	29.0	31.6	20. 26. 16.47																														
	25	α Delphini.....	CD	34.2	36.9	39.5	44.6	47.1	49.9	57.4	0.0	2.5	5.1	20. 34. 49.76		} 5.16	}	}	1.72	1.56	20. 34. 51.76	- 3.38																						
	26	ε Aquarii	CD	49.3	51.9	54.5	59.3	2.0	4.4	11.9	14.4	16.9	19.4	20. 42. 4.44																														
	27	Lalande 40436 ...	CD	7.1	11.0	18.9	22.2	26.2	37.5	41.0	45.1	...	...	20. 47. 26.20																														
	28	Lalande 40439 ...	CD	15.5	...	...	...	...	...	...	...	...	...	20. 48. 38.18		} 30.47	}	}	1.70	1.56	20. 48. 39.71	- 2.78																						
	29	Carrington 1296 S.P.	CD	...	...	...	...	...	...	...	...	...	...	20. 55. 43.16																														
	30	α Ursæ Maj. S.P. (1st Star)	CD	49.8	...	...	...	...	...	...	...	...	...	21. 18. 15.31																														
	31	α Ursæ Maj. S.P. (2nd Star)	CD	...	...	...	...	...	...	...	...	...	...	21. 18. 15.72		} 16.57	}	}	1.72	1.56	9. 18. 18.11	- 2.72																						
	32	ε Pegasi	WS	51.1	53.6	56.1	1.0	3.5	6.1	13.5	16.1	18.7	21.1	21. 39. 6.12																														
	33	α Aquarii	WS	13.3	15.7	18.2	23.2	25.7	28.1	35.5	38.0	40.3	43.0	22. 0. 28.14																														
Sept. 18	34	Groombridge 1572 S.P.	B	...	...	...	...	...	...	...	...	...	...	21. 35. 54.70	[+ 11.49]	} 55.91	}	}	1.91	[+ 0.18]	9. 35. 57.98	- 2.63																						
	35	B.D.+9° No. 4890	B	44.6	47.1	49.8	...	...	...	...	...	...	...	21. 38. 59.79																														
	36	ε Pegasi	B	50.5	53.2	55.8	0.6	3.1	5.8	13.1	15.9	18.1	20.8	21. 39. 5.73																														
	37	14 Pegasi	B	58.5	1.3	4.2	9.9	12.7	15.8	24.1	26.9	29.8	32.9	21. 45. 15.65		} 23.23	}	}	2.02	1.91	21. 45. 18.00	- 3.44																						
	38	16 Pegasi	B	4.4	7.1	10.0	15.4	18.0	21.0	28.9	31.8	34.4	37.3	21. 48. 20.87																														
	39	17 Pegasi	B	38.0	40.5	43.1	48.1	50.6	53.3	0.7	3.2	5.9	8.3	21. 51. 53.21																														
	40	18 Pegasi	B	...	...	...	...	...	...	...	...	...	...	21. 54. 57.41		} 30.46	}	}	2.05	1.91	21. 55. 0.01	- 3.83																						
	41	Piazzi IX. 233 S.P.	B	...	...	...	...	...	...	...	...	...	...	21. 59. 27.59																														
	42	α Aquarii	WS	12.9	15.4	18.0	22.8	25.3	27.9	35.1	37.6	40.1	42.6	22. 0. 27.81																														
	43	Oeltz. Arg. (N.) 23462	B	24.7	29.1	33.8	42.3	46.7	51.5	...	...	...	...	22. 3. 51.30		} 24.85	}	}	2.10	1.91	22. 3. 53.19	- 3.28																						
	44	Groombridge 3693	B	...	...	...	...	...	...	...	...	...	...	22. 4. 20.04																														
	45	θ Aquarii	WS	7.0	9.5	12.1	17.1	19.5	22.1	29.5	32.0	34.5	37.1	22. 11. 22.08																														
	46	Lalande 19950 S.P.	B	...	...	...	...	...	...	...	...	...	...	22. 12. 14.26		} 15.45	}	}	1.91	1.40	10. 12. 17.53	- 2.30																						
	47	Lalande 19985 S.P.	B	6.5	10.9	14.9	19.4	32.0	36.1	40.2	49.0	53.1	57.4	22. 13. 31.89																														
	48	Bradley 1429 S.P.	B	59.9	6.1	12.1	18.5	36.2	42.6	48.8	0.9	6.8	13.1	22. 16. 36.41																														
	49	Groombridge 3795	B	...	...	...	...	...	...	...	...	...	...	22. 24. 9.28		} 7.89	}	}	1.72	1.56	22. 24. 9.97	- 3.74																						
	50	Groombridge 3790	B	...	...	...	...	...	...	...	...	...	...	22. 25. 4.00																														
	51	Bradley 1446 S.P.	B	...	...	...	...	...	...	...	...	...	...	22. 26. 12.45																														
	52	Piazzi X. 96 S.P.	B	...	...	...	...	...	...	...	...	...	...	22. 27. 25.27		} 14.99	}	}	1.72	1.56	22. 27. 28.43	- 2.17																						
	53	Piazzi X. 100 S.P.	B	...	...	...	...	...	...	...	...	...	...	22. 27. 59.30																														
				...	...	...	...	...	...	...	...	...	...	22. 27. 59.30																														

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 9 and 12, — 61^s.62 and — 61^s.67.
 Corrections for passage of Semidiameter, Nos. 6 and 18, + 0^s.24 and + 69^s.31.

- 4, 5, 41. Cloudy. 5. A correction of + 0^s.03, for defect of illumination, has been applied in forming the concluded transit. 6. Ill-defined and tremulous.
 7. Observed over wire T with the transit-micrometer set to readings 34^s.634, 34^s.603, 34^{s</}

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
B	S	S	S	S	S	S	S	S	S	h m s	"	S	S	S	S	h m s	S					
Sept. 18	1	Bradley 1458 S.P.	B	...	...	...	...	...	24.4	40.3	11.9	27.7	...	22. 33. 8.71	+ 1.03	12.35			1.91	10. 33. 14.43	- 1.19	
	2	Piazzi X. 126 S.P.	B	52.5	0.0	7.0	14.2	35.2	42.3	49.5	3.6	10.9	17.9	22. 35. 35.20	(- 1.68)	37.05			[+ 0.18]	10. 35. 39.13	- 1.92	
	3	Piazzi XXII. 210	B	45.5	48.9	52.3	59.2	2.5	6.1	16.1	19.9	23.1	26.7	22. 39. 6.08	[+ 11.49]	6.15				22. 39. 8.23	- 3.62	
	4	Groombridge 3879	B	...	...	...	56.0	0.1	4.4	16.9	...	...	...	22. 41. 4.44		4.31				22. 41. 6.39	- 3.63	
	5	B.D.+53° No. 2974	B	...	...	2.1	10.6	14.9	19.2	31.8	36.0	...	...	22. 41. 19.18		19.05				22. 41. 21.13	- 3.63	
	6	Groombridge 3885	B	...	...	...	...	...	...	12.9	17.4	22.1	26.8	22. 41. 59.22		58.99				22. 42. 1.07	- 3.65	
	7	Radcliffe 5828 ...	B	...	...	...	...	...	...	16.1	20.9	25.6	30.1	22. 42. 2.60		2.37				22. 42. 4.45	- 3.65	
	8	λ Aquarii	B	...	...	...	...	...	...	20.2	22.7	25.1	27.8	22. 47. 12.79		13.46	30.46	2.00		22. 47. 15.54	- 4.18	
	9	Groomb. 1709 S.P.	B	34.8	39.7	44.1	49.0	2.9	7.8	12.2	21.5	26.1	30.9	22. 50. 2.83		4.12				10. 50. 6.20	- 1.94	
	10	Groomb. 1710 S.P.	B	...	...	...	...	...	50.4	0.8	21.1	31.4	41.9	22. 51. 40.19		42.69				10. 51. 44.77	- 1.27	
	11	Groomb. 1712 S.P.	B	...	...	...	45.0	15.5	25.9	36.0	...	...	...	22. 52. 15.39		17.90				10. 52. 19.98	- 1.26	
	12	Groombridge 3967	B	...	...	...	6.4	12.0	17.9	34.1	...	...	...	22. 58. 17.72		17.26				22. 58. 19.34	- 3.91	
	13	B.D.+63° No. 1922	B	21.2	...	32.4	...	...	54.8	...	16.7	...	28.0	22. 58. 54.65		54.19				22. 58. 56.27	- 3.92	
	14	Piazzi X. 246 S.P.	B	...	32.6	37.0	41.3	54.0	58.2	2.7	11.3	15.3	...	23. 2. 53.97		55.18				11. 2. 57.26	- 1.86	
	15	Piazzi X. 247 S.P.	B	...	20.2	24.6	28.9	41.8	46.0	50.1	58.8	3.1	...	23. 3. 41.61		42.82				11. 3. 44.90	- 1.85	
	16	Piazzi X. 257 S.P.	B	2.0	6.1	10.3	14.9	27.4	32.0	36.1	44.6	48.9	53.1	23. 5. 27.48		28.69				11. 5. 30.77	- 1.83	
	17	Piazzi XI. 19 S.P.	B	25.8	29.8	33.6	37.5	48.9	52.9	56.8	4.2	8.1	12.0	23. 10. 48.90		49.99				11. 10. 52.07	- 1.83	
	18	Groomb. 1767 S.P.	B	57.1	2.0	6.9	11.5	26.0	30.8	35.7	45.1	50.0	54.8	23. 15. 25.92		27.26				11. 15. 29.34	- 1.68	
	19	Piazzi XI. 43 S.P.	B	...	...	15.2	21.0	38.1	44.1	50.1	1.8	...	...	23. 16. 38.26		39.83				11. 16. 41.91	- 1.49	
	20	Oeltz. Arg. (N.) 25557	B	2.1	7.4	12.2	...	...	32.9	...	53.0	58.0	3.0	23. 20. 32.71		32.37				23. 20. 34.46	- 4.08	
	21	Groombridge 4062	B	42.8	47.9	...	...	8.0	13.4	28.3	33.4	38.6	...	23. 21. 13.30		12.96				23. 21. 15.05	- 4.09	
	22	Groombridge 4079	B	...	...	...	33.5	36.9	40.4	50.4	53.9	57.2	0.7	23. 25. 40.36		40.44				23. 25. 42.53	- 3.89	
	23	Groomb. 1803 S.P.	B	...	...	17.9	30.0	5.0	17.8	30.0	53.8	...	...	23. 31. 5.51		8.37				11. 31. 10.46	+ 0.03	
	24	Lalande 46302 ...	B	20.1	24.0	28.0	36.0	40.0	44.0	55.9	59.9	3.7	7.9	23. 32. 44.01		43.93				23. 32. 46.02	- 4.00	
	25	Groomb. 1817 S.P.	B	49.9	55.2	0.4	5.8	21.0	26.1	31.5	41.6	46.9	52.0	23. 35. 20.96		22.38				11. 35. 24.47	- 1.42	
	26	Oeltz. Arg. (N.) 25964	B	...	...	51.5	7.5	16.0	24.2	48.2	56.9	...	...	23. 38. 24.21		23.19				23. 38. 25.28	- 4.97	
	27	Groomb. 1843 S.P.	B	21.6	26.9	32.0	37.5	52.9	58.4	3.8	14.1	19.6	24.7	23. 52. 53.07		54.51				11. 52. 56.60	- 1.23	
	28	Groomb. 1844 S.P.	B	...	...	29.5	34.5	50.2	55.5	0.8	11.3	...	...	23. 53. 50.20		51.64				11. 53. 53.73	- 1.22	
	29	Groomb. 1845 S.P.	B	...	...	...	...	...	2.0	18.5	51.0	8.0	24.5	23. 54. 44.96		48.78				11. 54. 50.87	+ 1.88	
	30	Groomb. 1849 S.P.	B	6.4	12.0	17.4	22.3	38.0	43.5	48.8	59.1	4.3	9.6	23. 58. 38.06		39.50				11. 58. 41.59	- 1.18	
	31	Groombridge 4242	B	15.2	19.1	23.0	30.4	34.1	38.0	49.3	53.1	56.9	0.9	0. 3. 38.06		38.05		2.09		0. 3. 40.14	- 4.16	
	32	Oeltz. Arg. (N.) 43	B	32.7	36.4	...	48.0	51.6	...	6.6	10.5	...	...	0. 4. 55.47		55.46				0. 4. 57.55	- 4.17	
	33	Oeltz. Arg. (N.) 45	B	40.0	43.8	...	55.1	58.9	...	14.0	...	21.6	25.5	0. 5. 2.76		2.75				0. 5. 4.84	- 4.17	
	34	γ Pegasi	B	...	...	...	49.1	51.7	54.2	1.9	4.2	6.9	9.6	0. 7. 54.24		54.69	56.74	2.05		0. 7. 56.78	- 3.99	
	35	B. D. + 75° No. 6	B	43.4	52.7	2.9	22.1	32.0	42.1	12.0	21.8	31.8	42.0	0.11.42.43		41.03				0.11.43.12	- 6.02	
	36	Groombridge 36..	B	...	...	...	...	...	4.8	14.9	24.9	35.2	...	0.12.35.22		33.82				0.12.35.91	- 6.06	
	37	Oeltz. Arg. (N.) 281	B	...	...	28.4	36.1	40.1	44.1	55.8	59.6	...	...	0.17.44.10		44.05				0.17.46.14	- 4.27	
	38	71 Ursæ Maj. S.P.	B	35.1	40.0	44.5	49.1	2.6	7.3	12.0	20.9	25.7	30.1	0.20. 2.66		3.93				12.20. 6.02	- 1.19	
	39	Piazzi 0. 79	B	30.0	32.9	36.0	41.9	45.1	47.9	...	...	...	...	0.22.47.89		48.87				0.22.50.96	- 4.58	
	40	Groombridge 77..	B	...	...	46.7	54.9	59.2	3.4	15.6	19.6	...	...	0.26. 3.31		3.19				0.26. 5.28	- 4.38	
	41	B. D. + 53° No. 86	B	17.5	21.5	25.7	34.0	38.1	42.2	54.5	58.7	2.7	7.1	0.26.42.26		42.14				0.26.44.23	- 4.39	
	42	B. D. + 53° No. 94	B	...	12.0	16.1	24.2	28.5	32.9	45.0	49.1	53.4	...	0.27.32.73		32.61				0.27.34.70	- 4.39	
	43	W. B. (2) 0. 710..	B	54.1	56.8	59.6	5.1	8.0	10.8	18.9	21.6	24.4	27.3	0.30.10.70		11.02				0.30.13.11	- 4.03	
	44	W. B. (2) 0. 735..	B	35.0	37.7	40.5	46.0	48.8	51.6	59.9	2.5	5.4	8.1	0.30.51.59		51.91				0.30.54.00	- 4.03	
	45	Oeltz. Arg. (N.) 570-1	B	...	...	58.1	12.5	19.8	27.6	49.6	56.9	...	...	0.33.27.57		26.71				0.33.28.80	- 5.54	
	46	B. D. + 70° No. 35	B	22.7	30.0	37.5	52.1	59.5	7.3	28.9	36.2	43.9	51.2	0.34. 7.04		6.18				0.34. 8.27	- 5.55	
	47	Groomb. 142 (1st Star)	B	44.5	48.4	...	...	...	8.1	...	...	27.6	31.7	0.42. 8.09		8.03				0.42.10.13	- 4.40	
	48	Groomb. 142 (2nd Star)	B	...	...	52.6	0.1	4.1	...	19.9	23.8	...	...	0.42. 8.19		8.13				0.42.10.23	- 4.40	
	49	Bradley 74	B	...	...	...	38.8	59.7	20.6	22.0	...	...	...	0.45.20.71		17.12				0.45.19.22	- 10.68	
	50	Bradley 1730 S.P.	B	...	...	...	...	0.2	24.4	48.2	35.1	58.1	21.4	0.48. 0.36		5.58				12.48. 7.68	+ 6.23	
	51	Bradley 1731 S.P.	B	...	...	...	...	8.0	31.9	55.8	42.4	6.4	29.6	0.48. 8.22		13.44				12.48.15.54	+ 6.23	
	52	Groombridge 189	B	58.0	2.8	7.8	17.5	22.5	27.5	42.0	46.9	51.8	56.8	0.51.27.43		27.14				0.51.29.24	- 4.80	
	53	9 Draconis S.P....	B	...	...	30.4	36.9	55.6	2.1	8.6	21.1	...	...	0.55.55.65		57.33				12.51.59.43	- 0.25	
	54	Groombridge 220	B	...	...	50.0	57.1	0.8	4.4	15.1	18.9	...	...	0.57. 4.45		4.48				0.57. 6.58	- 4.35	

39. Cloudy.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896 ^o .
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
Sept. 18	1	Groombridge 245	B	35.5	38.8	42.0	48.5	51.8	55.1	4.8	8.0	11.4	14.9	1. 1. 55.13	+ 1.03	55.25			2.09	1. 1. 57.35	- 4.24	
	2	β Andromedæ ...	B	38.1	41.2	44.1	50.1	53.2	56.2	5.3	8.2	11.3	14.4	1. 3. 56.26	(- 1.68)	56.47	58.59	2.12	[+ 0.18]	1. 3. 58.57	- 4.16	
	3	PiazzixIII. 12 S.P.	B	13.4	19.1	24.5	29.8	45.8	51.4	56.8	7.5	12.8	18.1	1. 5. 45.84	[+ 11.49]	47.31				13. 5. 49.41	- 0.57	
	4	B. D. + 58° No. 201	B	59.8	4.4	9.4	19.0	23.9	28.9	42.9	47.9	52.8	57.8	1. 8. 28.75		28.46				1. 8. 30.56	- 4.88	
	5	Lalande F. 2236 S.P.	B	...	...	...	...	59.0	6.4	13.1	26.6	33.9	40.5	1. 12. 59.21		1.01				13. 13. 3.11	+ 0.11	
	6	Groomb. 1984 S.P.	B	...	...	...	...	36.9	40.9	45.0	52.9	56.9	1.0	1. 18. 36.81		37.95				13. 18. 40.05	- 1.06	
	7	ζ ¹ Ursæ Maj. S.P.	B	...	20.0	24.4	28.9	41.9	46.1	50.6	59.2	3.6	...	1. 19. 41.75		42.97				13. 19. 45.07	- 0.93	
	8	ζ ² Ursæ Maj. S.P.	B	...	21.1	25.5	29.9	42.9	47.1	51.8	0.2	4.7	...	1. 19. 42.81		44.03				13. 19. 46.13	- 0.93	
	9	PiazzixIII. 83 S.P.	B	...	18.9	23.1	27.6	40.7	45.1	49.5	58.0	2.3	...	1. 20. 40.56		41.78				13. 20. 43.88	- 0.92	
	10	Polaris	B	40.1	45.1	50.5	54.4	58.1	2.0	19.5	23.4	26.6	33.2	1. 22. 7.19		44.87	46.51	1.64		1. 21. 46.97	- 52.66	
	11	Groomb. 1998 S.P.	B	...	...	24.1	32.8	57.1	6.0	14.5	30.7	...	...	1. 22. 57.36		59.49				13. 23. 1.59	+ 0.85	
	12	PiazzixIII. 109 S.P.	B	...	...	...	58.8	23.4	32.3	40.5	...	...	...	1. 23. 23.57		25.71				13. 23. 27.81	+ 0.88	
	13	Groomb. 2003 S.P.	B	48.1	...	...	13.7	38.6	46.6	55.2	...	...	28.1	1. 23. 38.27		40.40				13. 23. 42.50	+ 0.85	
	14	Groomb. 2027 S.P.	B	42.2	46.3	50.3	54.6	6.7	10.8	14.9	22.8	26.8	30.9	1. 35. 6.57		7.71				13. 35. 9.81	- 1.00	
	15	PiazzixIII. 184 S.P.	B	...	...	...	...	12.1	18.0	24.0	35.6	41.7	47.8	1. 38. 12.04		13.63				13. 38. 15.73	- 0.12	
	16	Groomb. 2040 S.P.	B	33.9	39.0	43.9	48.9	3.8	8.8	13.8	23.9	28.9	33.9	1. 40. 3.81		5.19				13. 40. 7.29	- 0.54	
	17	Groomb. 2052 S.P.	B	25.7	29.6	33.6	37.5	49.3	52.9	56.9	4.6	8.5	12.5	1. 43. 49.05		50.16				13. 43. 52.26	- 1.03	
	18	B. D. + 12° No. 242	B	...	14.2	...	22.0	24.2	27.1	34.5	...	39.5	...	1. 45. 26.97		27.44				1. 45. 29.54	- 3.96	
	19	ι Draconis S.P.	B	...	...	56.9	2.5	19.9	26.1	31.9	43.6	...	...	1. 48. 20.03		21.61				13. 48. 23.71	- 0.06	
	20	Groomb. 2071 S.P.	B	...	...	...	...	20.4	37.3	53.6	25.9	42.2	58.3	1. 52. 20.61		24.38				13. 52. 26.48	+ 4.98	
	21	PiazzixI. 230	B	47.2	52.9	58.6	9.9	15.5	21.3	37.7	43.3	49.0	54.7	1. 57. 21.09		20.63				1. 57. 22.73	- 5.51	
	22	PiazzixIII. 306 S.P.	B	...	...	0.9	8.1	28.5	35.6	42.5	56.2	...	...	1. 59. 28.49		30.30				13. 59. 32.40	+ 0.52	
	23	Lalande 4023	B	...	36.1	38.9	44.2	46.9	49.8	57.8	0.5	3.2	...	2. 4. 49.73		50.59				2. 4. 52.70	- 3.88	
	24	ο Ceti	B	...	54.2	56.8	...	...	6.7	...	16.2	18.9	...	2. 14. 6.60		7.22				2. 14. 9.33	- 3.82	
	25	PiazzixII. 57	B	59.5	...	4.3	9.2	11.9	14.3	21.6	24.0	...	29.1	2. 14. 14.28		14.90				2. 14. 17.01	- 3.82	
	26	7-Yr. Cat. 1860 No. 154	B	55.8	2.0	8.5	...	...	...	...	...	11.5	...	2. 20. 33.64		33.02				2. 20. 35.13	- 5.97	
	27	Bradley 332	B	...	...	...	21.6	27.7	34.2	52.9	...	...	...	2. 20. 34.23		33.61				2. 20. 35.72	- 5.97	
	28	7-Yr. Cat. 1860 No. 156	B	57.4	3.5	10.0	...	...	...	...	0.1	6.5	13.0	2. 20. 35.15		34.53				2. 20. 36.64	- 5.97	
	29	Lalande F. 404 ...	B	26.6	33.1	39.5	...	...	...	...	29.9	36.1	42.6	2. 21. 4.70		4.07				2. 21. 6.18	- 5.98	
	30	Oeltz. Arg. (N.) 2766	B	...	...	...	25.3	31.8	38.1	57.1	...	...	...	2. 21. 38.21		37.58				2. 21. 39.69	- 5.98	
	31	Bradley 344	B	...	39.5	56.0	...	42.5	59.0	...	1.5	...	34.0	2. 32. 58.92		56.33				2. 32. 58.44	- 10.96	
	32	Lalande F. 2523 S.P.	B	54.1	9.1	23.8	...	20.4	34.9	49.5	...	...	...	2. 36. 20.49		23.86				14. 36. 25.97	+ 4.65	
	33	γ ¹ Ceti	B	40.6	43.1	45.7	50.5	52.9	55.5	2.8	5.3	7.9	10.3	2. 37. 55.50		56.07				2. 37. 58.18	- 3.76	
	34	Groomb. 2170 S.P.	B	18.8	28.3	38.5	48.2	58.6	8.5	18.5	28.7	38.9	...	2. 42. 58.56		3.09				14. 43. 5.20	+ 7.70	
	35	Groomb. 2165 S.P.	B	50.9	57.3	3.6	9.6	27.6	33.8	39.9	52.0	58.1	4.1	2. 48. 27.60		29.22				14. 48. 31.33	+ 0.30	
	36	Cephei 47	B	6.7	19.6	33.1	58.7	11.7	24.9	3.3	16.2	29.1	42.8	2. 52. 24.80		22.79				2. 52. 24.90	- 9.67	
	37	α Ceti	B	36.6	39.1	41.6	46.4	49.0	51.5	58.8	1.2	4.0	6.2	2. 56. 51.48		52.03	54.21	2.18		2. 56. 54.14	- 3.71	
	38	α Ceti.....(E&E)	B	10.8	25.5	40.3	55.2	10.4	25.1	40.0	...	...	...	2. 56. 51.43		51.98	54.21	2.23		.....		
	39	9 Ursæ Min. S.P.	B	...	33.1	41.0	49.4	...	21.1	29.6	45.5	53.6	...	3. 0. 13.15		15.21				15. 0. 17.32	+ 1.42	
	40	Groomb. 2213 S.P.	B	31.1	36.0	41.0	46.3	51.8	56.7	2.0	6.8	...	...	3. 1. 48.96		54.50				15. 1. 56.61	+ 10.67	
	41	δ Arietis	B	26.4	28.9	31.8	36.9	39.5	42.1	49.9	52.4	55.2	58.0	3. 5. 42.15		42.55	44.67	2.12		3. 5. 44.66	- 3.88	
	42	δ Arietis ... (E&E)	B	58.9	14.6	30.2	46.0	1.8	17.4	33.2	...	...	...	3. 5. 42.15		42.55	44.67	2.12		.....		
	43	Groomb. 2203 S.P.	B	...	...	...	54.9	8.0	12.2	16.8	...	...	...	3. 9. 7.89		9.14				15. 9. 11.25	- 0.59	
	44	Groomb. 2209 S.P.	B	43.1	47.8	52.1	56.8	10.0	14.7	19.0	27.9	32.2	36.8	3. 10. 9.97		11.22				15. 10. 13.33	- 0.58	
	45	η Tauri	B	...	...	...	14.0	16.7	19.4	27.4	30.1	32.9	35.6	3. 41. 19.43		19.78	21.89	2.11		3. 41. 21.90	- 3.85	
	46	Regulus.....	H	34.2	36.7	39.3	44.2	46.9	49.5	56.9	59.5	2.0	4.6	10. 2. 49.42	(- 1.16)	49.92	51.92	2.00	1.88	10. 2. 51.88	- 1.92	
	47	γ ¹ Leonis	H	58.2	0.8	3.5	8.6	11.4	14.0	22.0	24.4	27.1	30.0	10. 14. 14.04		14.46	16.35	1.89	[+ 0.18]	10. 14. 16.42	- 2.01	
Sept. 19	48	⊙ 1 L.	H	41.7	44.1	46.7	51.6	54.0	56.5	3.9	6.2	8.8	11.3	11. 47. 56.52						11. 49. 3.16		
	49	⊙ 2 L.	H	49.9	52.1	54.6	59.7	2.0	4.6	12.0	14.5	17.0	19.7	11. 50. 4.65								
	50	Polaris S.P.	H	28.9	36.0	42.5	58.1	6.4	18.0	39.8	51.6	58.8	18.3	13. 21. 22.90	[+ 11.15]	44.39	46.69	2.30		1. 21. 46.37	- 52.84	
	51	β Ophiuchi	B	5.1	7.6	10.1	15.0	17.5	20.0	27.4	29.9	32.2	34.9	17. 38. 20.01	[+ 10.65]	20.54	22.73	2.19	2.06	.....		
	52	β Ophiuchi (E&E)	B	39.9	54.7	9.5	24.5	39.3	54.1	8.9	...	...	...	17. 38. 19.98		20.51	22.73	2.22		.....		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 38, 42, and 52, — 63^h 89: — 63^h 89: and — 64^h 46.

10. Observed over wire U with the transit-micrometer set to readings 35^h 57.0, 35^h 61.0, 35^h 65.0, 35^h 69.0, 35^h 72.4, 35^h 76.8, 35^h 91.5, 35^h 94.5, 35^h 97.9, 36^h 02.5.

18. Observed in dark field with wires illuminated.

34. Observed over wire T with the transit-micrometer set to readings 37^h 60.0, 37^h 10.0, 36^h 60.0, 36^h 10.0, 35^h 60.0, 35^h 10.0, 34^h 60.0, 34^h 10.0, 33^h 60.0.

40. Observed over wire T with the transit-micrometer set to readings 36^h 30.0, 36^h 10.0, 35^h 90.0, 35^h 70.0, 35^h 50.0, 35^h 30.0, 35^h 10.0, 34^h 90.0.

50. Observed over wire T with the transit-micrometer set to readings 37^h 133, 37^h 062, 37^h 001, 36^h 874, 36^h 802, 36^h 704, 36^h 510, 36^h 396, 36^h 333, 36^h 158.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.		Correction for Reduc- tion to Mean R.A. 1896.
															[Azimuth].								
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m					s	°	
Sept. 19	1	μ Herculis	B	6.1	8.9	11.8	17.2	20.0	23.0	31.1	34.0	36.8	39.7	17. 42. 22.90	+ 1.03		23.22	25.40	2.18	2.06	.....		
	2	μ Herculis (E&E)	B	37.0	53.8	10.7	27.3	44.1	0.9	17.5	...	...	...	17. 42. 22.90	(- 1.16)		23.22	25.40	2.18	[+ 0.18]	.....		
	3	7 Sagittarii	B	12.8	15.4	18.1	23.6	26.2	29.1	37.0	39.7	42.5	45.4	17. 56. 29.02	[+ 1.065]		29.83				17. 56. 32.02	- 3.44	
	4	δ Ursæ Minoris...	H	38.5	46.6	51.9	58.2	4.0	11.1	16.6	21.8	27.9	32.8	18. 5. 39.11			32.28			1.88	18. 5. 34.30	+ 16.67	
	5	Piazzi V. 335 S.P.	H	43.2	50.4	57.6	4.5	25.4	32.5	39.6	53.5	0.5	7.7	18. 7. 25.39			27.03				6. 7. 29.05	- 5.87	
	6	η Serpentis	H	41.1	43.7	46.1	51.1	53.6	56.1	3.4	5.9	8.3	10.9	18. 15. 56.06			56.65	58.65	2.00		18. 15. 58.67	- 3.02	
	7	Groombridge 2556	H	38.2	42.1	46.2	54.1	58.1	2.1	13.9	17.8	21.8	25.8	18. 19. 2.07			2.06				18. 19. 4.08	- 1.52	
	8	Groomb. 1137 S.P.	H	...	...	...	...	32.6	44.9	56.8	20.4	32.7	44.1	18. 20. 32.85			35.38				6. 20. 37.40	- 8.01	
	9	B.D. + 80° No. 577	H	...	...	...	...	...	...	2.9	17.0	32.2	48.2	18. 23. 17.91			15.82				18. 23. 17.84	+ 3.67	
	10	Groombridge 2599	H	20.9	24.2	27.9	34.6	38.0	41.6	...	...	...	...	18. 29. 41.53			41.65				18. 29. 43.67	- 1.90	
	11	Groombridge 2608	H	...	...	...	...	...	...	40.9	45.8	50.6	55.8	18. 30. 26.62			26.41				18. 30. 28.43	- 1.11	
	12	Groombridge 2620	H	24.0	27.2	30.8	37.3	40.7	44.0	54.0	57.4	0.6	4.2	18. 33. 44.07			44.20				18. 33. 46.22	- 1.98	
	13	Oeltz. Arg. (N.) 18495	H	...	...	...	...	...	...	...	...	...	...	18. 35. 49.36			49.07				18. 35. 51.09	- 0.93	
	14	Groombridge 2659	H	50.6	54.8	59.1	7.2	11.4	15.7	28.0	32.2	36.4	40.7	18. 41. 15.67			15.61				18. 41. 17.63	- 1.54	
	15	Groombridge 2674	H	28.0	31.2	34.5	41.0	44.2	47.5	57.1	0.5	3.8	7.1	18. 45. 47.54			47.71				18. 45. 49.73	- 2.13	
	16	Groombridge 2683	H	55.8	59.1	2.3	8.9	12.2	15.7	25.5	28.7	32.0	35.4	18. 47. 15.61			15.76				18. 47. 17.78	- 2.10	
	17	Groombridge 2690	H	8.9	12.0	15.5	22.0	25.5	28.6	38.1	41.8	44.9	48.2	18. 48. 28.60			28.76				18. 48. 30.78	- 2.12	
	18	Groomb. 1228 S.P.	H	...	...	...	...	...	...	4.9	12.2	20.0	50.6	18. 49. 34.51			36.26				6. 49. 38.28	- 5.66	
	19	Lalande 35695 ...	H	21.9	27.8	33.9	45.1	51.2	57.2	14.6	20.4	26.2	32.5	18. 55. 57.17			56.76				18. 55. 58.78	- 0.85	
	20	Lalande F. (2) 46 S.P.	H	...	...	...	...	...	...	19.3	42.7	4.6	48.7	18. 58. 19.55			23.97				6. 58. 25.99	- 11.33	
	21	Groombridge 2783	H	14.6	18.1	22.1	29.5	33.1	37.0	47.9	51.6	55.5	59.4	19. 7. 36.94			36.98				19. 7. 39.00	- 1.98	
	22	ψ Sagittarii	H	54.4	57.1	59.9	5.3	8.0	11.0	19.0	21.9	24.6	27.4	19. 9. 10.90			11.72	13.73	2.01		19. 9. 13.74	- 3.95	
	23	Groombridge 2794	H	39.7	43.4	47.1	54.4	58.2	2.0	12.9	16.6	20.2	24.1	19. 11. 1.92			1.96				19. 11. 3.98	- 2.01	
	24	ω Aquilæ	H	41.5	44.0	46.5	51.5	54.0	56.6	4.0	6.6	9.1	11.8	19. 12. 56.60			57.07	59.07	2.00		19. 12. 59.09	- 3.02	
	25	Groombridge 2810	H	...	...	...	...	...	...	4.9	8.5	12.2	16.0	19. 13. 54.21			54.28				19. 13. 56.30	- 2.07	
	26	Groombridge 2832	H	19.0	22.2	25.9	32.5	36.0	39.4	49.5	52.9	56.1	59.8	19. 20. 39.38			39.50				19. 20. 41.53	- 2.26	
	27	λ Ursæ Minoris...	H	53.9	3.7	11.9	19.2	27.4	38.4	48.6	59.9	6.8	16.0	19. 26. 38.79			14.81				19. 26. 16.84	+ 43.73	
	28	Groombridge 2866	H	20.2	24.0	27.9	35.1	38.9	42.6	53.6	57.4	1.1	5.0	19. 28. 42.64			42.68				19. 28. 44.71	- 2.14	
	29	Groombridge 2883	H	6.1	9.6	12.9	19.6	22.9	...	...	...	...	...	19. 32. 26.24			26.38				19. 32. 28.41	- 2.37	
	30	Groombridge 2884	H	...	...	...	...	...	...	36.0	45.6	48.8	52.0	19. 32. 35.93			36.09				19. 32. 38.12	- 2.41	
	31	Groombridge 2899	H	...	...	...	...	...	...	1.6	7.3	12.8	18.2	19. 33. 39.94			39.60				19. 33. 41.63	- 1.42	
	32	Groombridge 2907	H	...	...	...	...	...	...	...	...	...	...	19. 36. 20.96			20.87				19. 36. 22.90	- 1.93	
	33	Groombridge 2911	H	48.1	51.2	54.5	1.1	4.2	7.6	17.1	20.5	23.8	27.0	19. 38. 7.56			7.73				19. 38. 9.76	- 2.46	
	34	γ Aquilæ	WS	...	...	7.0	9.6	14.5	17.1	19.6	26.9	29.5	32.0	19. 41. 19.58			20.06	22.06	2.00	2.08	.....		
	35	γ Aquilæ... (E&E)	WS	38.5	53.7	8.8	...	...	...	...	...	...	...	19. 41. 19.23			19.71	22.06	2.35		.....		
	36	α Aquilæ	WS	28.0	30.3	33.0	38.0	40.5	43.0	50.3	52.9	55.4	58.0	19. 45. 42.98			43.48	45.78	2.30		.....		
	37	B.D. + 54° No. 2241	H	...	...	9.5	...	...	...	...	...	...	...	19. 50. 30.48			30.41			1.88	19. 50. 32.44	- 2.08	
	38	Groombridge 2983	H	...	...	...	...	...	...	39.6	45.1	0.7	6.1	11.6	17.0	19. 51. 45.09			44.79		19. 51. 46.82	- 1.68	
	39	Groomb. 1390 S.P.	H	...	...	...	...	...	...	7.4	11.6	20.0	24.5	19. 53. 2.98			4.07				7. 53. 6.10	- 3.61	
	40	Groombridge 3016	H	27.1	31.4	35.8	44.1	48.9	...	5.5	10.0	14.1	18.5	19. 57. 52.89			52.80				19. 57. 54.83	- 2.11	
	41	Groombridge 3044	H	9.4	12.8	16.1	22.7	26.0	29.5	39.2	42.5	46.0	49.4	20. 4. 29.41			29.56				20. 4. 31.59	- 2.58	
	42	W.B. XX. 105 (1st Star)	H	2.8	...	7.7	...	...	...	17.7	...	27.4	...	20. 7. 17.62			18.19				20. 7. 20.22	- 3.54	
	43	W.B. XX. 105 (2nd Star)	H	...	...	5.4	...	...	...	12.8	15.2	...	25.1	...	30.0	...	18.33				20. 7. 20.36	- 3.54	
	44	α^1 Cygni	H	40.6	44.1	47.9	55.0	58.7	2.3	12.9	16.4	20.1	23.9	20. 10. 2.24			2.32				20. 10. 4.35	- 2.50	
	45	α^2 Cygni	H	0.3	4.0	7.6	14.5	18.1	22.0	32.4	36.0	39.7	43.2	20. 10. 21.83			21.91				20. 10. 23.94	- 2.50	
	46	Groombridge 3122	H	43.7	46.9	50.1	56.5	59.9	3.1	12.6	15.9	19.1	22.4	20. 14. 3.07			3.24				20. 14. 5.27	- 2.70	
	47	B.D. + 80° No. 254 S.P.	H	...	...	...	...	...	...	35.1	51.1	6.3	36.4	20. 15. 35.37			38.52				8. 15. 40.55	- 6.25	
	48	Piazzi VIII. 71 S.P.	H	...	...	...	...	...	...	35.5	39.7	43.9	52.0	20. 23. 35.47			36.52				8. 23. 38.55	- 3.29	
	49	Groombridge 3215	H	52.0	55.4	58.8	5.4	8.5	12.0	21.9	25.1	28.2	31.9	20. 29. 11.97			12.12				20. 29. 14.15	- 2.76	
	50	* N.P.D. 45° 45' ..	H	...	...	...	...	...	...	...	46.2	50.0	53.2	20. 30. 36.18			36.29				20. 30. 38.32	- 2.71	
	51	Groombridge 3254	H	16.4	23.5	30.3	44.2	51.2	58.5	...	...	...	...	20. 34. 58.38			57.75				20. 34. 59.78	- 1.78	
	52	ϵ Aquarii	H	48.9	51.4	54.0	59.0	1.5	4.0	11.5	14.0	16.5	19.1	20. 42. 4.03			4.69	6.68	1.99		20. 42. 6.73	- 3.93	
	53	Groombridge 3278	H	...	...	51.5	54.9	2.1	5.8	9.5	20.0	23.6	27.1	20. 43. 9.38			9.46				20. 43. 11.50	- 2.76	
	54	6 Ursæ Maj. S.P.	H	7.5	13.5	19.4	25.3	42.6	48.5	54.4	6.0	12.0	17.9	20. 47. 42.62			44.04				8. 47. 46.08	- 3.47	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 2 and 35, — 64^s.46 and — 64^s.55.

4. Observed over wire O with the transit-micrometer set to readings 32^s.992, 33^s.189, 33^s.300, 33^s.462, 33^s.572, 33^s.765, 33^s.897, 34^s.002, 34^s.165, 34^s.284.

18. Observed over wires Q, P, O and M.

27. Observed over wire T with the transit-micrometer set to readings 33^s.998, 34^s.062, 34^s.120, 34^s.173, 34^s.228, 34^s.299, 34^s.374, 34^s.460, 34^s.509, 34^s.580.

31. Observed over wires V, W, X and Z.

37. Very faint.

50. Observed in dark field with wires illuminated.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1850.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
1898 Sept.	1	Groombridge 3325	H	17.2	21.7	26.1	35.0	39.6	44.2	57.4	1.8	6.2	10.9	20.49.44.08	+ 1.03	43.95		1.88	20.49.45.99	- 2.55		
	2	Radcliffe 5019 ...	H	...	18.0	22.7	31.5	36.0	40.4	53.8	58.2	2.7	...	20.50.40.50	(- 1.16)	40.37		[+ 0.18]	20.50.42.41	- 2.55		
	3	Pallas	H	48.6	51.1	53.8	58.6	0.9	3.5	10.8	13.4	16.0	18.2	20.54.3.53	[+ 10.65]	4.07			20.54.6.11			
	4	α Ursæ Maj. S.P.	H	35.9	42.4	49.0	55.2	14.2	21.2	27.5	40.2	47.1	53.4	21.1.14.51		16.05			9.1.18.09	- 3.41		
	5	ζ Cygni	WS	14.0	16.9	19.8	25.4	28.1	31.3	39.5	42.2	45.4	48.2	21.8.31.12		31.42	33.81	2.39	2.08			
	6	θ Ursæ Maj. S.P.	H	29.6	33.8	37.9	41.9	53.9	58.0	1.8	10.0	14.0	18.0	21.25.53.83		54.88		1.88	9.25.56.92	- 2.62		
	7	Piazzi XXI. 221.	H	41.3	46.2	51.5	1.8	6.9	12.1	27.4	32.5	38.0	43.1	21.31.12.16		11.89			21.31.13.93	- 2.86		
	8	Groombridge 3515	H	33.9	36.9	40.2	46.7	50.1	53.3	3.0	6.2	9.5	12.9	21.33.53.31		53.48			21.33.55.52	- 3.22		
	9	δ Capricorni	H	...	6.8	9.3	14.2	17.0	19.6	27.2	29.9	32.5	...	21.41.19.61		20.33	22.31	1.98	21.41.22.37	- 4.29		
	10	δ Capricorni (E&E)	H	37.0	52.4	8.3	...	39.4	54.5	10.0	...	...	...	21.41.19.00		19.72	22.31	2.59				
	11	Groombridge 3655	H	25.3	28.7	32.4	38.9	42.4	46.1	56.2	59.8	3.1	6.6	21.58.46.00		46.12			21.58.48.16	- 3.34		
	12	α Aquarii	H	45.2	47.7	50.2	55.2	57.9	0.5	8.0	10.2	12.9	15.5	22.5.0.37		1.04			22.5.3.09	- 4.20		
	13	Bradley 2930	H	9.5	12.0	14.5	19.5	22.0	24.5	32.0	34.5	37.0	39.5	22.11.24.54		25.19			22.11.27.24	- 4.17		
	14	β L.	H	25.7	28.2	30.8	35.9	38.5	41.1	48.6	51.2	54.0	56.6	22.25.41.10		41.75			22.26.46.18			
	15	ζ Pegasi	H	2.6	5.1	7.9	12.9	15.3	18.0	25.2	28.0	30.3	32.9	22.36.17.86		18.34	20.32	1.98	22.36.19.39	- 3.87		
	16	67 Aquarii	H	34.9	37.4	39.9	44.8	47.2	50.0	57.2	59.9	2.1	4.9	22.37.49.87		50.51			22.37.52.56	- 4.16		
	17	Groomb. 1697 S.P.	H	37.3	45.1	52.1	59.8	21.6	29.0	36.7	51.0	58.6	6.0	22.46.21.61		23.31			10.46.25.36	- 1.68		
	18	78 Aquarii	H	...	...	0.7	5.6	8.1	10.6	18.0	29.5	23.1	25.8	22.49.10.67		11.31			22.49.13.36	- 4.18		
	19	κ Piscium	H	22.5	24.9	27.6	32.4	34.9	37.5	44.6	47.3	49.9	52.1	23.21.37.41		37.98	40.10	2.12	23.21.40.04	- 4.08		
	20	Bradley 3147	H	58.1	11.5	16.5	25.6	31.8	39.5	48.9	58.0	6.0	17.3	23.28.6.62		59.51			23.28.1.57	- 12.61		
	21	Ceres	H	33.1	35.7	38.1	43.2	45.9	48.3	56.0	58.6	1.1	3.8	0.25.48.42		49.12		2.06	0.25.51.18			
	22	Groomb. 1909 S.P.	H	...	34.6	50.5	5.8	51.6	7.5	23.0	53.9	9.5	...	0.30.51.75		54.95			12.30.57.01	+ 2.71		
	23	β Andromedæ	H	38.0	41.1	44.1	50.1	53.1	56.2	5.1	8.2	11.2	14.2	1.3.56.18		56.41	58.61	2.20	1.3.58.48	- 4.18		
	24	ζ Piscium	H	4.0	6.6	9.1	14.0	16.5	19.1	26.3	29.0	31.6	34.0	1.8.19.06		19.57	21.75	2.18	1.8.21.64	- 4.02		
	25	Polaris	H	30.0	50.9	5.7	17.0	31.0	44.5	57.5	9.4	39.2	51.4	1.22.3.60		44.11	46.86	2.75	1.21.46.18	- 53.01		
Sept. 20	26	⊙ 2 L.	WB	24.6	26.8	29.5	34.2	36.7	39.3	46.6	49.1	51.8	54.2	11.53.39.32	(- 0.80)	39.91		2.29	11.52.38.32			
	27	Polaris S.P.	C	30.8	6.1	22.7	44.0	1.1	17.2	33.9	47.9	4.1	17.2	13.21.25.23		44.89	47.04	2.15	[+ 0.14]	1.21.47.26	- 53.19	
	28	η Aquarii	C	46.9	49.1	51.9	56.6	59.3	1.7	8.9	11.4	14.0	16.5	22.30.1.67		2.27	4.69	2.42				
	29	67 Aquarii	C	34.5	37.1	39.5	44.4	46.9	49.5	56.9	59.3	2.0	4.3	22.37.49.48		50.13			22.37.52.55	- 4.16		
	30	Lalande F. 1706 S.P.	C	59.3	20.7	36.9	49.2	2.9	12.9	20.8	32.1	47.4	54.4	22.39.52.13		58.47			10.40.0.89	+ 0.92		
	31	78 Aquarii	C	55.2	57.9	0.1	5.2	7.7	10.2	17.6	20.1	22.6	25.1	22.49.10.21		10.86			22.49.13.28	- 4.18		
	32	α Pegasi	C	20.4	22.9	25.5	30.6	33.1	35.9	43.4	45.8	48.4	51.1	22.59.35.75		36.22	38.64	2.42				
Sept. 21	33	Piazzi X. 257 S.P.	C	1.8	...	10.1	14.6	27.4	32.0	35.8	44.0	...	53.1	23.5.27.29		28.37			11.5.30.79	- 1.86		
	34	β L.	C	57.0	59.4	2.0	6.9	9.6	12.0	19.5	22.1	24.7	27.2	23.10.12.08		12.70			23.11.16.46			
Sept. 21	35	⊙ 1 L.	J	...	...	...	...	...	6.5	...	...	18.4	21.5	11.55.6.41	+ 1.59	11.15	44.60	47.40	2.80	2.43	11.56.13.65	
	36	⊙ 2 L.	J	...	2.0	...	9.6	12.0	14.6	22.0	24.3	26.9	29.4	11.57.14.55	(- 0.48)							
	37	Polaris S.P.	J	40.5	45.5	49.9	57.1	1.2	6.1	35.7	49.2	55.1	0.9	13.21.26.50	[+ 11.12]							
Sept. 22	38	β Ursæ Minoris	B	...	...	...	38.0	47.1	57.1	...	...	...	...	14.50.56.82	(- 1.03)	55.83			2.35	14.50.58.30	+ 2.26	
	39	α Serpentis	B	...	...	...	...	...	...	14.9	17.4	19.9	22.5	15.39.7.55	[+ 11.77]	8.16	10.71	2.55	[+ 0.20]	15.39.10.64	- 2.04	
	40	72 Ophiuchi	B	9.6	12.1	14.6	19.6	22.1	24.6	32.0	34.5	37.0	39.7	18.2.24.62		25.21	27.75	2.54		18.2.27.71	- 2.65	
	41	δ Ursæ Minoris	B	2.0	6.6	10.6	14.0	30.0	33.9	37.2	54.1	17.4	21.0	18.5.37.39		30.59				18.5.33.09	+ 17.87	
	42	Piazzi V. 335 S.P.	B	42.9	50.0	57.4	4.1	24.9	32.1	39.0	52.6	0.0	7.1	18.7.24.90		26.60				6.7.29.10	- 6.11	
	43	Groombridge 2537	B	...	...	30.9	37.2	40.4	43.8	53.4	56.5	...	...	18.13.43.76		44.01				18.13.46.51	- 1.87	
	44	η Serpentis	B	40.5	42.9	45.5	50.3	52.9	55.5	2.8	5.1	7.7	10.1	18.15.55.37		56.08	58.50	2.42		18.15.58.58	- 2.97	
	45	Groombridge 2612	B	9.9	13.9	18.0	26.0	30.0	34.0	46.0	50.0	54.1	58.1	18.31.34.06		34.10				18.31.36.60	- 1.45	
	46	Carrington 929 S.P.	B	...	...	...	...	1.1	28.6	56.0	...	...	...	18.33.1.03		6.38				6.33.8.88	- 15.24	
	47	Groombridge 2690	B	8.0	11.4	14.8	21.2	24.5	28.0	37.7	41.0	44.2	47.7	18.48.27.90		28.13				18.48.30.64	- 2.04	
	48	Groombridge 2693	B	...	29.7	33.1	39.5	42.7	46.1	55.8	59.1	2.4	...	18.48.46.11		46.34				18.48.48.55	- 2.04	
	49	θ Serpentis	B	...	...	52.9	57.9	0.2	2.9	10.1	12.5	...	...	18.51.2.80		3.44				18.51.5.95	- 3.03	
	50	Bradley 2377	B	...	...	54.2	59.3	1.8	4.1	11.6	14.1	...	...	18.51.4.23		4.87				18.51.7.38	- 3.04	
	51	Cephei 51 S.P.	B	15.5	20.1	35.9	40.2	4.1	11.1	14.2	29.3	32.7	47.1	18.51.57.90		7.42				6.52.9.93	- 24.41	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 10, — 64^s.63.
 Corrections for passage of Semidiameter, Nos. 14, 26, and 34, + 62^s.36 : — 63^s.95 : and + 61^s.31.

Sept. 20. Clock Hardy was found to have stopped.

14, 34. Correction to R.A. on true meridian, + 0^s.02.

20. Observed over wire Q with the transit-micrometer set to readings 33^s.877, 34^s.160, 34^s.302, 34^s.510, 34^s.629, 34^s.839, 35^s.048, 35^s.259, 35^s.422, 35^s.700.

25. Observed over wire T with the transit-micrometer set to readings 34^s.760, 34^s.980, 35^s.110, 35^s.210, 35^s.322, 35^s.422, 35^s.553, 35^s.618, 35^s.912, 36^s.010.

26, 35, 38, 39, 43, 51. Cloudy.

27. Observed over wire V with the transit-micrometer set to readings 35^s.803, 35^s.492, 35^s.350, 35^s.160, 35^s.013, 34^s.880, 34^s.731, 34^s.612, 34^s.460, 34^s.340.

30. Observed over wire U with the transit-micrometer set to readings 29^s.033, 28^s.371, 27^s.882, 27^s.545, 27^s.134, 26^s.861, 26^s.642, 26^s.296, 25^s.850, 25^s.672.

37. Observed over wire U with the transit-micrometer set to readings 36^s.210, 36^s.153, 36^s.120, 36^s.070, 36^s.020, 35^s.985, 35^s.710, 35^s.605, 35^s.503, 35^s.518.

41. Observed over wire O with the transit-micrometer set to readings 33^s.564, 33^s.694, 33^s.787, 33^s.875, 34^s.250, 34^s.345, 34^s.427, 34^s.847, 35^s.395, 35^s.473.

51. Observed over wire O with the transit-micrometer set to readings 36^s.518, 36^s.399, 36^s.118, 36^s.020, 35^s.560, 35^s.423, 35^s.351, 35^s.065, 34^s.994, 34^s.720.

1988G0AAM...58A...1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].									
				s	s	s	s	s	s	s	s	s	s		h	m									s
1898 GOA W. I.	Sept. 22	1	Groombridge2729	B	38.4	43.5	48.8	58.8	3.9	8.9	24.0	28.9	34.0	39.5	18. 54. 8.95	+ 1.59	8.77			2.35	18. 54. 11.28	- 1.07		
	2	Lalande F. (2) 46 S.P.	B	2.7	13.1	18.1	22.6	46.8	52.5	...	...	...	...	...	18. 58. 19.00	(- 1.03)	23.49			[+ 0.20]	6. 58. 26.00	- 12.05		
	3	ω Aquilæ	B	40.9	43.3	45.9	50.9	53.4	56.0	3.4	6.0	8.5	11.1	19. 12. 55.98	[+ 11.77]	56.54	59.02	2.48		19. 12. 59.05	- 2.97			
	4	ω Aquilæ...(E&E)	B	8.2	23.5	...	53.9	...	23.9	39.0	...	...	...	...	19. 12. 55.84		56.40	59.02	2.62					
	5	κ Cygni	B	...	...	...	...	36.9	41.1	53.4	57.5	1.7	6.0	19. 14. 41.18		41.20				19. 14. 43.71	- 1.72			
	6	Groombridge2816	B	...	31.7	35.8	43.9	48.0	52.0	4.3	8.5	12.7	...	...	19. 15. 52.19		52.21				19. 15. 54.72	- 1.73		
	7	Groombridge2817	B	34.0	38.0	42.2	50.2	54.4	58.8	10.9	15.0	19.1	23.6	19. 15. 58.68		58.70				19. 16. 1.21	- 1.73			
	8	λ Ursæ Minoris...	B	50.5	54.9	59.2	3.8	18.3	23.3	28.1	38.0	41.9	45.5	19. 26. 34.73		10.67				19. 26. 13.18	+ 47.45			
	9	ι Cygni	B	40.5	44.4	48.4	56.2	0.2	4.2	16.1	20.0	24.0	28.1	19. 27. 4.27		4.33				19. 27. 6.84	- 1.90			
	10	h ³ Sagittarii	B	6.8	9.5	12.2	17.8	20.3	23.3	31.4	34.0	36.8	39.9	19. 30. 23.24		24.18	26.72	2.54		19. 30. 26.69	- 4.01			
	11	Groombridge2899	B	6.0	11.6	17.1	28.0	33.1	38.9	55.4	0.6	6.1	11.9	19. 33. 38.95		38.68				19. 33. 41.19	- 1.28			
	12	Groombridge3893	B	...	...	...	...	...	0.7	27.2	36.2	45.2	54.5	22. 43. 0.69		59.76				22. 43. 2.30	- 3.98			
	13	Groombridge3913	B	46.7	50.5	54.3	2.0	6.0	9.9	21.4	25.2	29.1	33.0	22. 48. 9.87		9.95				22. 48. 12.49	- 3.66			
	14	Groombridge3942	B	3.5	16.4	30.5	57.7	11.9	25.9	...	...	...	...	...	22. 52. 25.80		24.00				22. 52. 26.54	- 4.79		
	15	Piazzi XXII. 260..	B	...	...	...	42.8	46.0	49.2	58.5	1.7	4.9	8.1	22. 52. 49.16		49.43				22. 52. 51.97	- 3.70			
	16	Groombridge3940	B	...	...	...	...	36.9	41.1	53.0	57.1	1.0	5.3	22. 54. 41.09		41.14				22. 54. 43.68	- 3.71			
	17	Groombridge3950	B	...	53.4	57.8	6.1	10.3	14.8	27.5	32.0	36.0	...	...	22. 56. 14.82		14.81				22. 56. 17.35	- 3.74		
	18	Groombridge3963	B	...	54.2	58.4	...	...	14.9	...	30.9	35.1	...	...	22. 58. 14.76		14.79				22. 58. 17.33	- 3.75		
	19	α Pegasi	B	...	...	...	...	...	...	43.1	45.6	48.2	50.8	22. 59. 35.51		36.04	38.65	2.61		22. 59. 38.58	- 3.89			
	20	Groombridge4007	B	18.3	22.2	26.0	33.9	37.7	41.8	53.0	56.9	0.9	4.8	23. 6. 41.61		41.70				23. 6. 44.24	- 3.80			
	21	Lalande 45491 ...	B	25.8	29.1	32.6	39.1	42.5	46.0	56.0	59.2	2.5	6.0	23. 8. 45.93		46.14				23. 8. 48.68	- 3.79			
	22	Groombridge4019	B	52.0	55.2	58.8	5.4	8.8	12.1	22.1	...	...	...	...	23. 10. 12.16		12.37				23. 10. 14.91	- 3.80		
	23	Groombridge4029	B	...	...	...	2.2	5.8	9.3	19.6	...	...	...	...	23. 14. 9.30		9.48				23. 14. 12.02	- 3.83		
	24	ζ ¹ Piscium	B	3.7	6.1	8.7	13.6	16.1	18.8	...	...	...	...	...	1. 8. 18.65		19.26	21.79	2.53	2.55	1. 8. 21.82	- 4.05		
	25	Polaris	B	40.6	53.0	57.1	3.4	52.5	1.7	11.3	15.1	19.3	24.6	1. 22. 4.79		45.24	47.99	2.75			1. 21. 47.80	- 54.14		
Sept. 23	26	⊙ 1 L.....	R	...	...	...	...	...	25.2	27.6	30.1	32.6	12. 2. 17.80	(- 1.38)	} 22.49				2.57	12. 3. 25.14				
	27	⊙ 2 L.....	R	...	...	...	...	23.3	25.8	33.2	35.8	38.0	40.7	12. 4. 25.84					[+ 0.15]					
	28	Venus 1 L.....	R	...	...	...	...	31.8	34.1	41.6	44.1	46.5	49.1	13. 20. 34.17			34.89				13. 20. 37.94			
	29	Polaris S.P.	R	26.5	44.1	51.5	36.0	44.9	53.1	58.5	5.6	12.6	28.0	13. 21. 23.86	[+ 11.19]	44.23	48.22	3.99		1. 21. 46.88	- 54.37			
	30	α Serpentis	R	52.5	55.1	57.6	2.6	5.0	7.6	15.0	17.5	20.0	22.4	15. 39. 7.57	[+ 10.38]	8.10	10.70	2.60		15. 39. 10.77	- 2.03			
	31	γ Herculis.....	R	3.1	5.8	8.3	13.5	16.1	18.9	26.6	29.2	31.9	34.6	16. 17. 18.84		19.26	21.81	2.55		16. 17. 21.93	- 1.95			
	32	Antares	R	44.5	47.2	50.0	55.5	58.1	1.0	9.0	11.8	14.6	17.6	16. 23. 0.97		1.82	4.46	2.64		16. 23. 4.49	- 2.72			
	33	η Ophiuchi	B	8.6	11.2	13.8	18.8	21.4	24.0	31.8	34.1	36.8	39.5	17. 4. 24.04		24.77	27.53	2.76	2.65	17. 4. 27.53	- 2.82			
	34	η Ophiuchi (E&E)	B	36.2	51.6	7.0	22.5	37.9	53.1	8.5	...	...	...	17. 4. 24.01		24.74	27.53	2.79		.....				
	35	α Herculis.....	B	38.0	40.5	43.1	48.1	50.6	53.4	0.9	3.5	6.0	8.6	17. 9. 53.31		53.77	56.52	2.75		17. 9. 56.53	- 2.26			
	36	α Herculis. (E&E)	B	5.6	21.0	36.5	51.9	7.0	22.2	37.6	...	...	...	17. 9. 53.30		53.76	56.52	2.76		.....				
	37	β Ophiuchi	WS	4.5	6.9	9.5	14.3	16.9	19.5	26.8	29.2	31.7	34.1	17. 38. 19.38		19.93	22.66	2.73	2.64	.....				
	38	β Ophiuchi (E&E)	WS	32.9	48.0	3.0	...	32.1	47.3	2.3	...	...	...	17. 38. 19.22		19.77	22.66	2.89		.....				
	39	μ Herculis.....	WS	5.5	8.2	11.0	16.5	19.4	22.2	30.5	33.4	36.1	38.9	17. 42. 22.21		22.54	25.31	2.77		.....				
	40	δ Ursæ Minoris...	R	59.1	6.6	12.2	28.0	34.5	41.0	46.3	52.0	57.6	7.4	18. 5. 37.15		30.92			2.57	18. 5. 33.60	+ 18.27			
	41	Groombridge2540	B	5.8	8.9	12.1	18.6	21.9	25.2	34.8	38.0	41.2	44.6	18. 14. 25.16		25.36			2.65	18. 14. 28.12	- 1.86			
	42	λ Sagittarii	R	16.5	19.4	22.1	27.8	30.2	33.1	41.2	44.0	46.7	49.5	18. 21. 33.09		33.93	36.66	2.73	2.57	18. 21. 36.61	- 3.58			
	43	B.D.+80° No.577	R	...	...	...	...	...	...	1.1	16.1	31.7	46.9	18. 23. 16.78		14.89				18. 23. 17.57	+ 4.27			
	44	Groombridge2612	R	9.8	13.8	17.8	26.0	29.9	34.0	...	...	...	...	18. 31. 34.02		34.02				18. 31. 36.71	- 1.42			
	45	Carrington 929 S.P.	R	...	...	...	...	...	...	55.5	49.0	17.1	44.1	18. 33. 0.81		5.63				6. 33. 8.32	- 15.50			
	46	Groombridge1228 S.P.	R	48.2	56.1	4.0	11.6	34.0	41.8	49.2	4.0	11.8	19.4	18. 49. 33.90		35.51				6. 49. 38.20	- 5.98			
	47	Cephei 51 S.P.	R	18.2	32.0	43.8	53.1	4.7	15.6	24.2	35.6	47.9	56.2	18. 51. 58.36		6.98				6. 52. 9.67	- 24.88			
	48	17 Lyncis S.P.	R	49.0	54.1	59.6	4.5	19.5	24.8	30.0	40.0	45.4	50.2	19. 0. 19.63		20.79				7. 0. 23.48	- 4.66			
	49	Piazzi VI.310 S.P.	R	56.0	1.2	6.2	11.7	26.4	31.8	36.7	46.9	52.1	57.1	19. 0. 26.53		27.69				7. 0. 30.38	- 4.66			
	50	ω Aquilæ	R	40.7	43.2	46.0	50.9	53.3	56.0	3.4	5.9	8.4	11.0	19. 12. 55.92		56.41	59.01	2.60		19. 12. 59.10	- 2.96			
51	α Vulpeculæ	R	6.0	8.5	11.5	16.9	19.5	22.1	30.3	33.1	35.9	38.5	19. 24. 22.27		22.64	25.36	2.72		19. 24. 25.33	- 2.71				
52	λ Ursæ Minoris...	R	59.1	14.1	26.0	35.7	47.0	0.1	13.4	26.7	36.5	48.9	19. 26. 30.16		8.24				19. 26. 10.93	+ 48.65				

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 4, 34, 36, and 38, + 2^h 10: + 1^h 58: 1^h 58: and + 1^h 59.
Corrections for passage of Semidiameter, No. 28, + 0^h 40.

2. Observed over wire T with the transit-micrometer set to readings 33^h 630, 33^h 185, 32^h 959, 32^h 755, 31^h 686, 31^h 440.

2, 12, 19, 22, 24, 25, 28, 29. Cloudy.

8. Observed over wire T with the transit-micrometer set to readings 33^h 975, 34^h 031, 34^h 057, 34^h 096, 34^h 201, 34^h 231, 34^h 260, 34^h 328, 34^h 363, 34^h 390.

25. Observed over wire O with the transit-micrometer set to readings 35^h 060, 35^h 173, 35^h 214, 35^h 265, 35^h 706, 35^h 775, 35^h 860, 35^h 888, 35^h 945, 35^h 970.

29. Observed over wire W with the transit-micrometer set to readings 35^h 890, 35^h 709, 35^h 638, 35^h 251, 35^h 172, 35^h 121, 35^h 062, 35^h 005, 34^h 940, 34^h 818.

30. Very unsteady.

40. Observed over wire T with the transit-micrometer set to readings 34^h 692, 34^h 880, 35^h 010, 35^h 372, 35^h 521, 35^h 702, 35^h 827, 35^h 963, 36^h 080, 36^h 317.

47. Observed over wire R with the transit-micrometer set to readings 36^h 045, 35^h 786, 35^h 537, 35^h 347, 35^h 126, 34^h 921, 34^h 736, 34^h 520, 34^h 287, 34^h 101.

52. Observed over wire Q with the transit-micrometer set to readings 34^h 630, 34^h 740, 34^h 834, 34^h 898, 3

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Red- uction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation.									
				s	s	s	s	s	s	s	s	s	s		(Level).	[Azimuth].								
1898 Sept. 23	1	B.D.+54° No. 2241	R	3.7	8.1	12.6	20.8	25.0	29.4	...	...	...	...	19. 50. 29.27	+ 1.59	29.24	59.80	2.63	2.57 [+ 0.15]	19. 50. 31.93	- 1.96			
	2	Groombridge 1119 S.P.	R	8.1	18.1	27.1	34.7	41.9	51.1	1.7	11.6	24.1	34.4	19. 53. 55.21	(- 1.38)	17.13				7. 54. 19.82	-44.43			
	3	θ Aquilæ	R	41.9	44.1	46.6	51.5	54.0	56.5	4.0	6.4	8.9	11.4	20. 5. 56.57	[+10.38]	57.17				20. 5. 59.87	- 3.52			
	4	Groombridge 3078	R	31.4	34.8	38.0	44.8	48.1	52.0	1.6	4.8	8.5	11.8	20. 8. 51.63		51.78				20. 8. 54.48	- 2.51			
	5	o Cygni	R	...	...	6.7	13.9	17.5	21.1	31.7	35.4	...	...	20. 10. 21.12		21.22				20. 10. 23.92	- 2.41			
	6	Lalande 39835 ...	B	36.5	51.8	7.9	38.4	53.8	9.6	...	...	...	...	20. 23. 9.54		7.57				2.65	20. 23. 10.35	+ 0.82		
	7	Piazzi VIII. 788 S.P.	B	19.8	24.0	28.3	32.4	44.9	49.1	53.1	1.5	5.7	9.9	20. 24. 44.81		45.79					8. 24. 48.57	- 3.44		
	8	* N.P.D. 45° 45'.	B	14.1	17.7	21.3	28.1	31.4	34.9	45.2	48.9	52.2	55.9	20. 30. 35.02		35.16				20. 30. 37.94	- 2.63			
	9	* N.P.D. 45° 45'.	B	20.2	23.6	27.2	33.9	37.5	40.9	51.3	54.8	58.3	1.9	20. 30. 41.01		41.15				20. 30. 43.93	- 2.63			
	10	α Delphini	B	33.1	35.5	38.1	43.2	45.9	48.5	56.0	58.8	1.4	4.0	20. 34. 48.49		48.94				20. 34. 51.72	- 3.29			
	11	Lalande F. 1355 S.P.	R	24.9	42.2	59.9	16.4	...	...	...	...	...	...	20. 42. 7.18		10.37				2.57	8. 42. 13.07	- 6.18		
	12	Groombridge 3294	R	56.9	3.5	10.4	24.5	31.6	38.6	59.3	6.2	13.2	20.4	20. 42. 38.56		38.02					20. 42. 40.72	- 1.72		
	13	76 Draconis	R	...	...	...	...	47.4	6.2	59.7	18.0	35.9	54.9	20. 50. 6.19		3.81				20. 50. 6.51	+ 0.29			
	14	ρ Ursæ Majoris S.P.	R	29.9	36.8	43.5	50.0	9.3	16.1	22.9	35.9	42.7	49.1	20. 52. 9.52		10.96				8. 52. 13.66	- 3.77			
	15	W.B. (2) XXI. 207	C	49.1	51.8	54.1	59.5	2.1	4.6	12.2	15.1	17.9	20.3	21. 11. 4.71		5.13				2.88	21. 11. 8.14	- 3.40		
	16	Groombridge 3432	C	31.1	34.9	38.2	46.0	49.6	53.1	4.8	8.8	12.2	16.3	21. 15. 53.56		53.62					21. 15. 56.63	- 2.87		
	17	Groombridge 3548	C	26.5	46.1	1.6	10.3	19.2	29.8	41.5	51.5	59.4	7.6	21. 20. 19.51		13.29				21. 20. 16.30	+ 1.50			
	18	Groombridge 3476	C	0.8	4.9	9.2	16.9	21.1	25.3	...	...	...	...	21. 26. 25.23		25.23				21. 26. 28.24	- 2.90			
	19	Groombridge 3480	C	28.0	32.0	36.0	44.0	48.1	52.5	4.0	8.3	12.2	16.2	21. 26. 52.19		52.19				21. 26. 55.20	- 2.90			
	20	ξ Aquarii	C	58.2	0.6	3.4	8.0	10.6	13.3	20.5	23.2	25.7	28.1	21. 32. 13.20		13.86				16.94	3.08			
	21	ε Pegasi	C	50.0	52.2	54.8	59.8	2.2	4.9	12.2	14.9	17.4	19.9	21. 39. 4.87		5.38				8.31	2.93			
	22	Groombridge 3577	C	50.9	54.8	58.6	6.0	9.9	13.7	24.9	28.7	32.2	36.2	21. 45. 13.65		13.71						21. 45. 16.73	- 3.13	
	23	Groombridge 3618	C	...	...	...	...	9.2	12.8	23.6	27.2	30.9	34.3	21. 52. 12.82		12.91						21. 52. 15.93	- 3.21	
	24	Groombridge 3627	C	12.8	16.2	20.4	27.2	31.1	34.8	45.3	49.0	53.4	56.8	21. 53. 34.75		34.84						21. 53. 37.86	- 3.23	
	25	Groombridge 3655	C	24.2	27.6	31.1	38.0	41.3	44.8	55.1	58.4	2.1	5.9	21. 58. 44.90		45.04						21. 58. 48.06	- 3.30	
	26	Groombridge 3663	C	18.9	22.0	25.6	32.4	36.0	39.5	49.4	52.9	56.6	0.0	21. 59. 39.38		39.52						21. 59. 42.54	- 3.31	
	27	Groombridge 3696	C	31.4	36.8	41.3	51.5	...	...	...	...	...	32.0	22. 5. 1.70		1.50						22. 5. 4.52	- 3.18	
	28	Groombridge 3698	C	53.9	58.8	3.8	13.3	18.8	23.9	38.6	43.1	48.3	53.7	22. 5. 23.70		23.50						22. 5. 26.52	- 3.19	
	29	Groombridge 3732	R	29.8	34.2	39.1	48.5	53.3	58.1	12.0	16.9	21.5	26.1	22. 12. 58.02		57.88				2.57	22. 13. 0.59	- 3.30		
	30	Lalande F. 4124 ...	R	4.5	10.5	16.6	28.8	34.9	41.2	59.4	5.5	11.7	18.0	22. 18. 41.20		40.81					22. 18. 43.52	- 3.35		
	31	Groombridge 3797	R	...	...	...	...	...	...	53.5	57.6	1.1	24.0	22. 26. 38.23		38.28				22. 26. 40.99	- 3.47			
	32	B.D.+53° No. 2914	R	...	...	...	...	...	...	7.3	11.4	15.6	20.0	22. 28. 54.97		54.95				22. 28. 57.66	- 3.48			
	33	B.D.+53° No. 2915	R	...	...	...	...	...	...	30.1	34.2	38.5	43.0	22. 29. 17.84		17.82				22. 29. 20.53	- 3.48			
	34	Lacaille 9190	R	...	...	...	...	...	9.9	18.5	21.7	24.3	27.8	22. 32. 9.77		10.72				22. 32. 13.43	- 4.89			
	35	ζ Pegasi	B	...	...	6.9	12.0	14.4	17.1	24.4	26.9	...	...	22. 36. 17.00		17.50				20.32	2.82	2.65	22. 36. 20.29	- 3.87
	36	Groombridge 3870	R	4.0	9.6	15.5	26.8	...	...	...	...	...	...	22. 38. 38.25		37.93				2.57	22. 38. 40.64	- 3.62		
	37	W.B. XXII. 864 ...	R	...	...	...	...	...	46.5	54.8	57.9	0.5	3.3	22. 38. 46.44		46.75					22. 38. 49.46	- 3.68		
	38	Groombridge 3879	R	38.2	42.7	46.9	55.1	59.5	3.9	...	...	...	...	22. 41. 3.74		3.71				22. 41. 6.42	- 3.59			
	39	B.D.+53° No. 2974	R	...	...	...	10.0	14.0	18.2	30.8	35.2	39.1	43.8	22. 41. 18.36		18.33				22. 41. 21.04	- 3.59			
	40	Carrington 3486 ...	R	...	...	...	...	...	14.6	6.0	24.5	42.2	0.5	22. 43. 14.45		12.14				22. 43. 14.85	- 4.83			
	41	λ Aquarii	R	...	...	...	7.1	9.6	12.1	19.6	22.0	24.5	27.0	22. 47. 12.12		12.78				22. 47. 15.49	- 4.18			
	42	B.D.+72° No. 1071	R	3.8	10.9	20.3	36.8	44.6	53.6	...	...	...	...	22. 49. 53.62		52.83				22. 49. 55.54	- 4.05			
	43	Groomb. 1710 S.P.	R	39.1	49.6	59.9	9.9	40.4	50.3	1.1	...	...	...	22. 51. 40.32		42.38				10. 51. 45.09	- 1.45			
	44	Groomb. 1712 S.P.	R	...	...	...	...	15.8	26.0	36.1	56.4	7.0	16.9	22. 52. 15.70		17.76				10. 52. 20.47	- 1.44			
	45	Groombridge 3957	R	...	...	14.0	20.9	24.1	27.6	38.1	41.4	...	...	22. 57. 27.75		27.89				22. 57. 30.60	- 3.72			
	46	Groombridge 3967	R	...	...	...	6.0	11.2	17.1	33.5	38.7	44.2	50.2	22. 58. 16.89		16.59				22. 58. 19.30	- 3.87			
	47	B.D.+63° No. 1922	R	...	...	...	...	...	54.0	10.2	16.0	21.5	27.4	22. 58. 53.91		53.61				22. 58. 56.32	- 3.88			
	48	Groombridge 3993	R	1.5	7.0	12.6	23.5	28.9	34.2	50.5	56.0	1.5	7.0	23. 3. 34.35		34.08				23. 3. 36.79	- 3.93			
	49	2 Cassiopeiae	R	49.8	54.5	59.4	8.8	13.5	18.2	...	...	...	...	23. 5. 18.35		18.20				23. 5. 20.91	- 3.87			
	50	Groombridge 4000	R	...	...	...	...	19.9	24.7	38.8	43.5	48.3	53.1	23. 5. 24.67		24.52				23. 5. 27.23	- 3.87			
	51	Oeltz. Arg. (N.) 25287	R	...	...	...	...	...	...	4.0	13.8	24.0	34.1	23. 7. 35.05		34.02				23. 7. 36.73	- 4.63			
	52	Groombridge 4016	R	10.9	14.3	17.7	24.2	27.9	31.3	41.2	44.5	48.0	51.5	23. 9. 31.20		31.35				23. 9. 34.06	- 3.79			
	53	γ Piscium	B	32.2	34.6	37.1	42.1	44.5	47.0	54.4	56.9	59.5	2.0	23. 11. 47.07		47.64				50.46	2.82	2.65	23. 11. 50.44	- 4.08
	54	Oeltz. Arg. (N.) 25557	B	...	...	...	...	...	...	47.0	52.0	57.4	2.2	23. 20. 32.00		31.80						2.57	23. 20. 34.52	- 4.07

1, 8, 9, 34, 42. Observed in dark field with wires illuminated.

2. Observed over wire U with the transit-micrometer set to readings 36° 147, 36° 088, 35° 990, 35° 959, 35° 893, 35° 817, 35° 741, 35° 662, 35° 571, 35° 496.

17. Observed over wire T with the transit-micrometer set to readings 35° 745, 36° 190, 36° 595, 36° 850, 37° 030, 37° 278, 37° 570, 37° 763, 38° 005, 38° 220.

31. Observed over wires V, W, X and Y.

1898G0A00W...58A...1C

[60]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Redu- ction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Sept. 23	1	Groombridge 4070	B	...	...	...	...	...	...	8.5	14.5	20.5	55.6	23. 21. 45.43	+ 1.59	45.08			2.65	23. 21. 47.88	- 4.23	
	2	Groombridge 4080	B	...	...	...	36.9	46.1	55.8	23.5	...	...	...	23. 24. 55.78	(- 1.38)	54.85			[+ 0.15]	23. 24. 57.65	- 4.93	
	3	14 Andromedæ ...	R	52.4	55.6	58.9	5.1	8.1	11.5	20.9	24.0	27.1	30.4	23. 26. 11.45	[+ 10.38]	11.66			2.57	23. 26. 14.38	- 3.90	
	4	Groomb. 4084 (S. Star)	R	...	...	...	...	...	56.5	59.9	10.0	13.5	16.8	20.3	23. 26. 59.96		0.12			23. 27. 2.84	- 3.90	
	5	Groomb. 4084 (N. Star)	R	...	...	...	...	...	56.9	0.4	10.4	13.9	17.1	20.7	23. 27. 0.36		0.52			23. 27. 3.24	- 3.90	
	6	Groombridge 4115	R	21.5	30.1	39.1	56.3	4.8	13.5	38.7	47.1	56.0	4.8	23. 34. 13.32		12.51				23. 34. 15.23	- 4.97	
	7	i Aquarii	R	33.6	36.1	38.9	44.0	46.7	49.4	57.1	59.8	2.3	5.1	23. 38. 49.34		50.10				23. 38. 52.82	- 4.40	
	8	Groombridge 5...	R	0.0	6.0	12.0	24.0	29.9	36.0	53.5	59.5	5.6	11.5	0. 5. 35.89		35.52		2.72		0. 5. 38.24	- 4.80	
	9	Groombridge 23...	R	...	...	48.0	58.9	4.7	10.5	27.0	32.6	...	...	0. 9. 10.39		10.08				0. 9. 12.80	- 4.75	
	10	σ Andromedæ ...	R	36.1	39.4	42.6	48.4	51.6	54.7	3.6	6.9	9.8	13.0	0. 12. 54.66		54.90				0. 12. 57.62	- 4.08	
	11	40 Piscium	R	19.2	21.8	24.2	29.4	32.0	34.5	42.1	44.8	47.4	50.0	0. 14. 34.58		35.03				0. 14. 37.75	- 4.04	
	12	12 Cassiopeiæ	R	34.2	39.4	44.5	54.6	0.1	5.5	20.5	25.6	30.8	36.0	0. 19. 5.20		4.99				0. 19. 7.71	- 4.70	
	13	ε Andromedæ	R	47.4	50.0	53.1	58.8	1.5	4.4	12.9	15.6	18.5	21.4	0. 33. 4.40		4.72	7.57	2.85		0. 33. 7.44	- 4.09	
	14	B. D. + 41° No. 109	R	21.4	24.6	28.0	34.2	37.9	41.1	50.9	54.2	57.5	0.9	0. 35. 4.12		41.30				0. 35. 44.02	- 4.24	
	15	Groombridge 145	R	21.9	28.9	36.2	50.6	58.0	5.4	26.7	33.8	41.0	48.5	0. 43. 5.21		4.63				0. 43. 7.35	- 5.68	
	16	Groombridge 190	R	50.1	53.7	57.1	4.1	7.6	11.1	21.6	25.0	28.5	32.0	0. 51. 11.13		11.26				0. 51. 13.99	- 4.37	
	17	Groombridge 196	R	4.0	7.4	10.9	18.0	21.2	24.9	35.2	38.8	42.1	45.9	0. 52. 24.89		25.02				0. 52. 27.75	- 4.37	
	18	ε Piscium	R	18.5	20.9	23.5	28.3	30.9	33.4	40.9	43.4	45.9	48.4	0. 57. 33.45		33.97	36.71	2.74		0. 57. 36.70	- 4.06	
	19	75 Piscium	R	50.9	53.4	56.0	1.1	3.6	6.1	13.6	16.0	18.7	21.4	1. 1. 6.12		6.60				1. 1. 9.33	- 4.07	
	20	W. B. I. 209	R	35.6	38.1	40.5	45.5	48.1	50.8	58.1	0.7	3.1	5.9	1. 15. 50.68		51.17				1. 15. 53.90	- 4.07	
	21	Polaris	R	27.6	46.1	59.4	10.1	21.3	33.0	46.1	56.0	5.1	16.1	1. 22. 1.45		43.63	48.45	4.82		1. 21. 46.36	- 54.60	
	22	δ 2 L.	R	3.2	6.0	8.6	13.8	16.1	18.9	26.9	29.1	31.6	34.4	1. 24. 18.90		19.37				1. 23. 19.57	- 21.87	
	23	Groombridge 339	R	0.0	15.3	25.9	38.1	47.5	1.2	15.9	28.0	39.9	51.6	1. 39. 54.13		48.28				1. 39. 51.01	- 21.87	
	24	4 Arietis	R	17.8	20.2	23.0	28.0	30.6	33.4	40.9	43.5	46.0	48.6	1. 42. 33.24		33.68				1. 42. 36.41	- 4.08	
	25	β Arietis	R	38.6	41.2	44.0	49.1	51.9	54.5	2.2	5.0	7.7	10.3	1. 48. 54.49		54.89	57.67	2.78		1. 48. 57.62	- 4.11	
	26	γ Arietis	R	25.3	27.9	30.5	35.6	38.4	40.9	48.5	51.1	53.9	56.4	1. 51. 40.89		41.32				1. 51. 44.05	- 4.08	
	27	α Arietis	R	3.4	6.0	8.6	14.0	16.7	19.5	27.3	30.1	32.9	35.5	2. 1. 19.44		19.82	22.68	2.86		2. 1. 22.55	- 4.14	
	28	θ Ursæ Majoris...	S	29.9	33.9	38.1	46.0	50.0	54.1	...	...	14.2	18.4	9. 25. 54.14	(- 0.55)	54.24			2.54	9. 25. 56.82	- 2.76	
	29	Regulus	S	18.5	33.6	...	...	...	...	58.9	1.5	4.0	19.1	10. 2. 48.86		49.38	52.01	2.63	[+ 0.10]	10. 2. 51.96	- 2.01	
Sept. 24	30	⊙ 1 L.	S	38.5	40.9	43.5	48.2	50.8	53.4	0.7	3.2	5.9	8.1	12. 5. 53.36		58.07				12. 7. 0.66		
	31	⊙ 2 L.	S	46.7	49.0	...	...	...	...	...	...	...	...	12. 8. 1.52								
	32	Polaris S.P.	S	32.7	39.9	52.7	0.3	12.0	19.6	32.2	40.1	53.8	0.1	13. 21. 27.89		44.72	48.70	3.98		1. 21. 47.32	- 54.85	
	33	α Ophiuchi	WS	50.0	52.5	55.1	0.2	2.8	5.4	12.9	15.3	18.0	20.6	17. 30. 5.32		5.84	8.75	2.91	2.82	.....		
	34	109 Herculis	S	...	1.9	4.5	9.9	12.5	15.3	23.1	25.9	28.5	...	18. 19. 15.25		15.70			2.54	18. 19. 18.32	- 2.43	
	35	Piazzi XVIII. 100	S	59.8	2.6	5.5	10.9	13.6	...	24.1	26.9	29.8	32.5	18. 25. 16.22		16.65				18. 25. 19.27	- 2.39	
	36	Piazzi XVIII. 116	S	9.6	12.2	15.0	20.2	23.0	25.9	33.9	36.5	39.4	42.1	18. 28. 25.82		26.25				18. 28. 28.87	- 2.42	
	37	Piazzi XVIII. 132	S	...	56.5	59.3	4.6	7.4	10.0	18.0	20.6	23.5	...	18. 31. 10.04		10.47				18. 31. 13.09	- 2.43	
	38	β Lyrae	S	56.0	59.0	2.0	7.8	10.6	13.7	22.2	25.5	28.2	31.5	18. 46. 13.69		14.04	16.62	2.58		18. 46. 16.66	- 2.23	
	39	θ Serpentis	S	47.7	50.1	52.7	57.5	0.0	2.7	10.0	12.4	14.9	17.4	18. 51. 2.58		3.17				18. 51. 5.79	- 3.00	
	40	Bradley 2377	S	49.1	51.6	54.1	59.1	1.5	4.0	11.4	13.9	16.4	19.0	18. 51. 4.05		4.64				18. 51. 7.26	- 3.00	
	41	ζ Aquilæ	S	22.0	24.7	27.2	32.2	34.9	37.5	44.9	47.5	50.1	52.8	19. 0. 37.42		37.93	40.58	2.65		19. 0. 40.55	- 2.82	
	42	Bradley 2440	S	...	...	...	...	4.3	16.0	48.2	59.2	10.1	21.6	19. 2. 15.93		14.95				19. 2. 17.57	+ 1.64	
	43	19 Lyrae	S	...	...	...	...	...	46.0	54.6	57.6	0.5	3.6	19. 7. 46.14		46.50				19. 7. 49.12	- 2.43	
	44	1 Vulpeculæ	S	28.5	31.1	33.9	39.1	41.9	44.4	52.1	54.9	57.6	0.3	19. 11. 44.42		44.87				19. 11. 47.49	- 2.71	
	45	τ Draconis	S	...	...	...	...	...	56.0	4.7	13.3	22.1	19. 17. 30.48		29.86					19. 17. 32.48	+ 0.34	
	46	α Vulpeculæ	S	6.0	8.8	11.5	16.9	19.5	22.1	30.2	33.1	35.9	38.7	19. 24. 22.31		22.73	25.34	2.61		19. 24. 25.35	- 2.69	
	47	β Cygni	S	...	...	20.1	25.5	28.3	31.2	39.5	42.5	...	...	19. 26. 31.23		31.62				19. 26. 34.24	- 2.62	
	48	Bradley 2474	S	...	...	22.1	27.9	30.5	33.5	41.6	44.4	...	...	19. 26. 33.38		33.77				19. 26. 36.39	- 2.62	
	49	α Aquilæ	WS	27.2	29.9	32.4	37.1	39.7	42.3	49.8	52.0	54.7	57.2	19. 45. 42.27		42.82	45.71	2.89	2.82	.....		
	50	α Aquilæ... (E&E)	WS	56.0	10.9	26.0	...	56.0	11.0	25.8	...	...	...	19. 45. 42.19		42.74	45.71	2.97		.....		
	51	Piazzi VII. 187 S.P.	S	...	...	...	46.7	27.9	42.2	56.2	...	...	...	19. 48. 27.96		30.44			2.54	7. 48. 33.06	- 7.43	
	52	Groombridge 2992	S	...	...	...	50.7	55.6	0.9	15.8	...	...	...	19. 53. 0.86		0.78				19. 53. 3.40	- 1.60	
	53	Bradley 2559	S	...	...	...	14.5	17.4	20.1	28.1	30.9	33.6	36.4	19. 57. 20.10		20.52				19. 57. 23.14	- 2.88	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 50, + 1^m 21.
Correction for passage of Semidiameter, No. 22, — 62^s 54.

- Observed over wires V, W, X and Y.
- Observed over wire O with the transit-micrometer set to readings 34^m 996, 35^m 152, 35^m 253, 35^m 353, 35^m 440, 35^m 550, 35^m 676, 35^m 763, 35^m 832, 35^m 934.
- Correction to R.A. on true meridian, + 0^s 01.
- Observed over wire O with the transit-micrometer set to readings 34^m 166, 34^m 554, 34^m 816, 35^m 148, 35^m 369, 35^m 713, 36^m 080, 36^m 378, 36^m 684, 36^m 970.
- Cloudy.
- Observed over wires N, O, V, W, X and Y.
- Observed over wire W with the transit-micrometer set to readings 35^m 841, 35^m 774, 35^m 666, 35^m 602, 35^m 517, 35^m 448, 35^m 331, 35^m 274, 35^m 141, 35^m 100.
- Very faint; cloudy.
- Very faint. Observed in partially illuminated field.
- Observed over wires O, P and Z.
- Very faint.

MONTH	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow as a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	s	h m s	s						
Sept. 24	1	14 Sagittæ.....	S	...	...	...	39.2	41.8	44.4	52.0	54.5	57.2	59.8	19. 58. 44.40	+ 1.59	44.90			2.54	19. 58. 47.52	- 3.09	
	2	55 Camelopardi S.P..	S	47.4	54.2	1.1	7.5	28.0	35.3	41.9	55.5	2.1	9.2	20. 2. 28.12	(- 0.55)	29.53			[+ 0.10]	8. 2. 32.15	- 4.70	
	3	θ Aquilæ.....	S	41.6	44.0	...	51.5	54.0	56.6	3.9	...	8.9	11.4	20. 5. 56.53	[+ 10.38]	57.17	59.79	2.62		20. 5. 59.79	- 3.51	
	4	Groombridge 3071	S	...	...	38.4	47.2	51.6	56.0	9.1	13.5	...	...	20. 6. 56.06		56.09				20. 6. 58.71	- 2.00	
	5	α Cygni.....	S	39.8	43.4	47.0	54.1	57.8	1.4	12.0	15.5	19.2	23.0	20. 10. 1.37		1.56				20. 10. 4.18	- 2.38	
	6	α Cygni.....	S	59.5	2.9	6.5	13.6	17.4	20.9	31.6	35.1	38.8	42.5	20. 10. 20.93		21.12				20. 10. 23.74	- 2.39	
	7	Bradley 2618.....	S	6.1	9.4	12.6	19.0	22.2	25.8	35.2	38.4	41.9	45.1	20. 14. 25.62		25.88				20. 14. 28.50	- 2.60	
	8	γ Cygni.....	S	...	...	...	...	...	...	38.9	42.1	45.5	48.9	20. 18. 29.45		29.72				20. 18. 32.34	- 2.63	
	9	41 Cygni.....	S	51.5	54.3	57.3	2.9	5.7	8.7	17.1	20.0	22.9	25.8	20. 25. 8.66		9.03				20. 25. 11.66	- 2.92	
	10	ε Delphini.....	S	59.7	2.1	4.9	9.8	12.1	14.9	22.2	24.9	27.4	30.0	20. 28. 14.84		15.37	17.96	2.59		20. 28. 18.00	- 3.34	
	11	β Delphini.....	S	25.1	27.8	30.2	35.4	38.0	40.3	48.0	50.5	53.2	55.9	20. 32. 40.48		40.99				20. 32. 43.62	- 3.30	
	12	α Cygni.....	S	32.0	35.5	39.1	45.9	49.5	53.1	3.3	6.9	10.3	14.0	20. 37. 53.01		53.22				20. 37. 55.85	- 2.64	
	13	30 Vulpeculæ ...	S	6.1	8.9	11.7	17.1	19.9	22.4	30.4	33.2	36.1	39.0	20. 40. 22.52		22.94				20. 40. 25.57	- 3.11	
	14	32 Vulpeculæ ...	S	51.1	53.8	56.5	2.0	4.9	7.9	16.0	18.7	21.6	24.6	20. 50. 7.75		8.14	10.73	2.59		20. 50. 10.77	- 3.11	
	15	Groombridge 3337	S	34.0	37.4	40.9	47.9	51.4	54.7	5.0	8.4	11.8	15.5	20. 52. 54.75		54.97				20. 52. 57.60	- 2.77	
	16	ξ Cygni.....	S	48.2	51.8	55.2	2.0	5.4	8.9	18.9	22.4	25.9	29.4	21. 1. 8.86		9.09				21. 1. 11.72	- 2.86	
	17	ζ Cygni.....	S	...	16.4	19.3	25.0	27.9	30.9	39.1	42.0	44.9	...	21. 8. 30.74		31.11	33.75	2.64		21. 8. 33.74	- 3.18	
	18	τ Cygni.....	S	19.8	22.8	26.0	32.1	35.3	38.5	47.9	50.9	54.0	57.4	21. 10. 38.52		38.81				21. 10. 41.44	- 3.05	
	19	σ Cygni.....	S	0.9	4.0	7.3	13.5	16.9	20.0	29.4	32.5	35.9	39.1	21. 13. 20.00		20.28				21. 13. 22.91	- 3.03	
	20	α Cephei.....	S	...	...	...	...	...	...	21.6	26.9	32.0	37.6	21. 16. 5.68		5.56				21. 16. 8.19	- 2.53	
	21	β Cephei.....	S	35.8	43.1	50.5	4.8	12.1	20.0	41.1	48.2	55.9	3.1	21. 27. 19.57		19.14				21. 27. 21.77	- 2.39	
	22	μ Pegasi.....	S	43.5	46.1	48.9	54.1	56.9	59.8	7.7	10.3	13.2	16.0	22. 44. 59.69		0.12	2.71	2.59		22. 45. 2.75	- 3.76	
	23	ρ Pegasi.....	S	45.2	47.7	50.2	55.1	57.7	0.2	7.7	10.1	12.7	15.3	22. 50. 0.23		0.78				22. 50. 3.42	- 3.94	
	24	Bradley 3067.....	S	...	...	...	...	...	...	31.6	14.9	29.9	44.9	59.6	22. 59. 32.09		30.55				22. 59. 33.19	- 5.08
	25	Groombridge 4009	S	...	...	...	...	...	...	28.0	10.0	24.2	38.1	...	23. 5. 27.76		26.28				23. 5. 28.92	- 5.24
	26	γ Piscium.....	S	...	...	...	...	...	...	47.2	54.5	56.9	59.5	2.0	23. 11. 47.17		47.78	50.47	2.69		23. 11. 50.42	- 4.09
Sept. 26	27	δ Ursæ Minoris...	D	44.0	59.1	14.9	35.7	46.9	0.0	12.6	24.7	36.4	52.0	18. 5. 34.79	[+ 12.05]	28.25	31.11	2.86	2.73	.....	.....	
	28	α Lyræ.....	D	4.8	7.9	11.1	17.3	20.5	24.0	33.1	36.2	39.6	42.9	18. 33. 23.79		24.11	26.96	2.85	[+ 0.16]	.....	.....	
	29	64 Arietis.....	H	54.4	57.1	59.9	5.1	8.0	10.6	18.9	21.6	24.4	27.0	3. 18. 10.74		11.22			2.84	3. 18. 14.08	- 4.14	
	30	7 Tauri (1st Star)	H	1.5	4.3	7.1	12.2	15.0	18.0	25.9	28.5	31.4	34.1	3. 28. 17.84		18.32				3. 28. 21.18	- 4.12	
	31	7 Tauri (2nd Star)	H	3.0	5.8	8.7	13.7	16.5	19.5	27.4	30.0	32.9	35.8	3. 28. 19.37		19.85				3. 28. 22.71	- 4.12	
	32	δ Eridani.....	H	...	...	...	...	...	16.0	23.4	26.0	28.3	31.0	3. 38. 15.66		16.47	19.47	3.00		.....	.....	
	33	20 Tauri.....	H	22.6	25.4	...	33.6	36.1	39.1	47.1	...	52.6	56.0	3. 39. 39.10		39.58				3. 39. 42.44	- 4.10	
	34	δ 2 L.....	H	...	...	24.0	29.5	32.1	35.1	43.2	46.0	48.9	51.8	3. 52. 35.03		35.50				3. 51. 30.05	.....	
	35	α Tauri.....	H	...	20.0	22.8	28.0	30.8	33.5	41.1	44.0	46.5	...	3. 58. 33.39		33.90	36.73	2.83		.....	.....	
	36	α Tauri....(E&E)	H	45.0	...	16.9	...	48.8	...	...	...	...	...	3. 58. 32.90		33.41	36.73	3.32		.....	.....	
	37	ω Tauri.....	H	51.1	53.9	56.5	1.6	4.1	6.9	14.7	17.4	20.0	22.6	4. 3. 6.92		7.45	10.27	2.82		.....	.....	
	38	χ Tauri.....	H	...	...	...	...	...	...	23.6	26.5	29.3	32.1	4. 16. 15.65		16.12				4. 16. 18.99	- 4.03	
39	W.B.(2) IV. 436-7	H	38.3	41.2	44.0	49.5	52.1	55.1	3.3	6.1	8.9	11.9	4. 22. 55.08		55.53				4. 22. 58.40	- 4.06		
40	Aldebaran.....	H	42.0	44.5	47.1	52.2	54.9	57.6	5.1	7.6	10.2	13.3	4. 29. 57.49		58.05	0.86	2.81		.....	.....		
Sept. 27	41	ε Pegasi.....	WS	49.5	52.0	54.5	59.4	2.0	4.4	12.0	14.4	17.0	19.5	21. 39. 4.51	[+ 11.13]	5.09	8.28	3.19	3.04	.....	.....	
	42	ε Pegasi ... (E&E)	WS	19.8	34.8	...	...	...	35.0	49.9	...	...	...	21. 39. 4.40		4.98	8.28	3.30	[+ 0.14]	.....	.....	
	43	δ Capricorni.....	WS	2.9	5.3	8.0	13.1	15.6	18.2	26.0	28.6	31.1	33.8	21. 41. 18.30		19.11	22.25	3.14		.....	.....	
	44	δ Capricorni ... (E&E)	WS	32.1	47.5	...	...	...	49.4	5.0	...	...	...	21. 41. 18.00		18.81	22.25	3.44		.....	.....	
	45	γ Tauri.....	CD	...	...	...	...	...	...	0.2	2.6	5.4	8.0	4. 13. 52.59		53.12	56.23	3.11	3.19	.....	.....	
	46	Aldebaran.....	CD	41.7	44.1	46.8	52.0	54.5	57.1	4.8	7.4	10.0	12.7	4. 29. 57.15		57.67	0.89	3.22		.....	.....	
	47	Groombridge 860	CD	18.0	21.5	25.2	32.6	36.1	40.0	51.1	54.7	58.6	2.2	4. 33. 40.06		40.23				4. 33. 43.45	- 4.86	
	48	δ 2 L.....	CD	31.2	34.0	36.9	42.6	45.3	48.1	56.7	59.6	2.4	5.4	4. 47. 48.26		48.68				4. 46. 41.74	.....	
	49	Groombridge 909	CD	5.8	10.5	15.3	24.7	29.5	34.4	48.3	53.1	58.0	2.9	4. 55. 34.32		34.27				4. 55. 37.49	- 5.56	
	50	W.B.(2) IV. 1397-8	CD	18.1	20.8	23.4	28.7	31.4	34.0	42.0	44.5	47.2	50.0	5. 2. 34.05		34.53				5. 2. 37.75	- 3.79	
	51	Piazzi V. 41.....	CD	10.9	13.7	16.5	22.0	24.9	27.8	36.0	38.9	41.7	44.5	5. 14. 27.73		28.14				5. 14. 31.36	- 3.92	
	52	β Tauri.....	CD	26.5	29.1	32.0	37.6	40.2	43.2	51.5	54.4	57.2	0.1	5. 19. 43.22		43.63	46.93	3.30		.....	.....	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 36, 42, and 44, + 0.04 : - 0.55 : and - 0.55.
 Corrections for passage of Semidiameter, Nos. 34 and 48, - 68.34 and - 70.17.

1, 4, 5, 6, 7, 9, 10, 11, 18, 19, 20, 21, 25. Very faint; cloudy. 2, 13, 14, 15. Very faint. 2, 13, 15. Observed in dark field with wires illuminated.
 27. Observed over wire U with the transit-micrometer set to readings 34.7301, 34.7664, 35.7045, 35.7553, 35.816, 36.7110, 36.7407, 36.7675, 36.7980, 37.7339.
 34. Correction to R.A. on true meridian, + 0.02. 48. Correction to R.A. on true meridian, + 0.01.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898604WV

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h	m	s	''	s	s	s	s	h	m	s	s	
Sept. 27	1	Mars 1 L.	CD	43.4	...	48.7	...	...	59.4	...	10.0	...	15.5	5. 24. 59.32	+ 1.59	} 0.14 [+ 0.14]	52.32	3.26	3.19 [+ 0.14]	5. 25. 3.36		
2	Mars 2 L.	CD	...	46.5	...	54.6	57.3	...	8.0	...	13.5	...	5. 25. 0.04	(- 0.55)	5. 33. 35.43					- 3.12		
3	Piazz V. 173.	CD	16.8	19.1	21.6	26.5	28.9	31.4	38.9	41.4	43.8	46.4	5. 33. 31.52	[+ 11.13]	5. 33. 36.96					- 3.12		
4	Piazz V. 174.	CD	18.1	20.5	23.1	28.1	30.6	33.1	40.3	42.9	45.4	48.0	5. 33. 33.05		.....							
5	κ Orionis	CD	33.3	35.6	38.1	43.3	45.9	48.2	55.8	58.2	0.8	3.5	5. 42. 48.31		18. 5. 31.15					+ 20.22		
6	δ Ursæ Min. S.P.	CD	49.1	56.2	7.1	29.5	40.0	45.9	8.0	17.4	24.5	53.3	6. 5. 20.80		9. 22. 30.44					- 1.83		
7	α Hydræ	B	11.4	14.0	16.4	21.4	23.9	26.5	33.8	36.2	38.9	41.5	9. 22. 26.44		9. 35. 38.12					- 2.16		
8	o Leonis	B	19.3	21.8	24.2	29.1	31.7	34.2	41.8	44.2	46.8	49.3	9. 35. 34.28		9. 39. 59.32					- 2.39		
9	ε Leonis	WB	...	...	...	50.0	52.8	55.6	...	...	8.9	11.9	9. 39. 55.54									
Sept. 28	10	⊙ 2 L.	WB	...	...	...	20.7	23.3	26.0	...	...	...	...	12. 22. 25.84	+ 1.67	26.55	50.64	4.02	3.29	12. 21. 25.75		
11	Polaris S.P.	WB	54.8	4.5	9.5	19.5	27.1	36.9	42.0	52.0	58.9	8.3	13. 21. 29.63	(- 0.10)	46.62	1. 21. 49.97				- 56.79		
12	Venus 1 L.	WB	17.0	19.5	22.1	27.0	29.5	32.1	39.8	42.1	44.6	47.3	13. 43. 32.14		32.91	13. 43. 36.67						
13	η Boötis	B	26.0	28.5	31.3	36.5	39.1	41.6	49.5	52.0	54.6	57.5	13. 49. 41.70		42.23	13. 49. 45.52				- 1.62		
14	Arcturus	WB	36.9	39.5	42.1	47.4	50.1	52.9	...	...	5.9	8.8	14. 10. 52.77		53.29	14. 10. 56.64				- 1.56		
15	ζ Herculis	B	2.3	5.2	8.1	14.0	16.8	19.8	28.2	31.2	34.1	37.3	16. 37. 19.74		20.15	16. 37. 23.45				- 1.57		
16	κ Ophiuchi	B	28.0	30.4	32.9	38.0	40.4	43.0	50.4	52.9	55.5	58.0	16. 52. 42.99		43.59	16. 52. 46.89				- 2.20		
17	ε Herculis	B	59.2	2.0	5.1	10.7	13.5	16.6	25.1	28.0	30.9	33.9	16. 56. 16.54		16.96	16. 56. 20.26				- 1.69		
18	ε Herculis. (E&E) ..	B	25.6	43.0	0.2	17.6	35.0	52.1	9.4	...	...	...	16. 56. 16.54		16.96	.....						
19	α Ophiuchi	B	49.7	52.1	54.7	59.8	2.2	4.9	12.2	14.9	17.5	20.0	17. 30. 4.84		5.41	17. 30. 8.71				- 2.33		
20	μ Herculis	B	4.8	7.5	10.2	15.8	18.6	21.5	29.7	32.5	35.3	38.2	17. 42. 21.45		21.90	17. 42. 25.20				- 1.97		
21	μ Herculis. (E&E) ..	B	32.1	49.0	5.9	22.6	39.2	55.9	12.8	...	...	...	17. 42. 21.47		21.92	.....						
22	δ Ursæ Minoris... B	51.0	59.9	7.7	16.3	24.5	41.5	49.7	58.2	6.6	15.4	18. 5. 33.08		27.65	30.19	2.54				18. 5. 30.96	+ 20.46	
23	α Lyrae	WB	4.1	7.5	10.6	16.8	20.0	23.3	32.6	36.0	38.9	42.2	18. 33. 23.25		23.59	26.91				3.32	18. 33. 26.96	- 1.90
24	Cephei 51 S.P. ...	WB	13.6	21.6	33.6	40.6	52.0	57.9	8.6	13.7	27.1	34.2	18. 52. 2.00		9.87						6. 52. 13.24	- 27.52
25	λ Ursæ Minoris... WB	28.0	36.2	49.5	55.5	7.4	13.0	22.6	29.1	40.3	51.4	19. 26. 23.29		3.77						19. 26. 7.14	+ 55.42	
26	γ Aquilæ	WB	2.9	5.4	8.0	12.9	15.4	18.0	25.5	28.0	30.5	33.0	19. 41. 18.00		18.59	21.93				3.34	19. 41. 21.96	- 3.06
27	α Aquilæ	WB	26.5	29.1	31.7	36.6	39.1	41.7	49.1	51.5	54.0	56.6	19. 45. 41.63		42.24	45.65				3.41	19. 45. 45.61	- 3.15
28	Groombridge 3093 ..	WB	34.0	38.1	42.3	51.0	55.5	59.9	12.5	17.0	21.1	25.5	20. 9. 59.75		59.86						20. 10. 3.23	- 1.94
29	Piazz VIII. 78 S.P. ..	WB	19.6	24.0	28.0	32.2	44.4	48.6	52.9	0.9	5.4	9.3	20. 24. 44.47		45.48						8. 24. 48.86	- 3.65
30	Groombridge 3229 ..	WB	17.1	20.3	24.0	...	...	38.0	...	51.9	55.3	59.0	20. 30. 37.97		38.24						20. 30. 41.62	- 2.50
31	ε Aquarii	WB	47.5	50.0	52.2	57.5	59.9	2.3	9.9	12.2	14.9	17.5	20. 42. 2.43		3.20	6.58		3.38		20. 42. 6.58	- 3.83	
32	Radcliffe 2198 S.P. ..	WB	5.1	34.0	48.1	3.6	30.8	45.6	59.9	30.5	...	...	20. 47. 17.20		21.95					8. 47. 25.33	- 9.37	
33	Groomb. 1494 S.P. ..	WB	56.0	0.1	4.0	8.0	18.9	22.7	26.7	34.4	38.2	42.5	20. 54. 19.11		20.08					8. 54. 23.46	- 3.25	
34	Oeltz. Arg. (N.) 9540 S.P. ..	WB	8.0	12.9	18.0	22.9	37.2	42.1	47.3	57.0	2.0	6.7	20. 58. 37.34		38.48					8. 58. 41.86	- 3.54	
35	Piazz XXI. 3 ...	WB	...	19.0	22.9	30.1	33.9	37.5	48.2	52.0	55.8	...	21. 3. 37.50		37.73					21. 3. 41.11	- 2.71	
36	Groombridge 3407 ..	WB	19.6	23.6	28.0	37.0	41.4	45.7	58.5	2.5	7.3	11.8	21. 6. 45.60		45.69					21. 6. 49.07	- 2.52	
37	Groombridge 3412 ..	WB	57.7	1.0	4.3	11.2	14.5	18.0	28.1	31.6	35.1	38.3	21. 9. 18.03		18.31					21. 9. 21.69	- 2.85	
38	Groombridge 3420 ..	WB	4.9	8.1	11.8	18.4	21.9	25.5	35.5	39.0	42.2	46.0	21. 12. 25.38		25.66					21. 12. 29.04	- 2.87	
39	Groombridge 3435 ..	WB	20.0	23.4	27.2	34.7	38.5	42.4	53.5	57.3	0.9	5.0	21. 16. 42.35		42.56					21. 16. 45.94	- 2.79	
40	Groombridge 3457 ..	WB	46.1	49.9	53.5	1.1	4.9	8.7	20.0	23.6	27.5	31.4	21. 21. 8.73		8.94					21. 21. 12.32	- 2.83	
41	Groombridge 3478 ..	WB	...	...	...	...	...	...	57.0	7.4	18.0	28.4	21. 23. 26.71		25.86					21. 23. 29.24	- 1.70	
42	Oeltz. Arg. (N.) 22410 ..	WB	26.9	32.1	36.9	...	...	57.3	...	17.8	23.0	28.5	21. 27. 57.55		57.51					21. 28. 0.89	- 2.57	
43	Groombridge 3519 ..	WB	...	...	...	...	...	57.1	30.3	42.0	53.2	4.9	21. 29. 56.72		55.71					21. 29. 59.09	- 1.74	
44	Groombridge 3527 ..	WB	50.3	56.7	3.4	16.2	22.9	29.6	48.8	55.2	1.9	8.6	21. 33. 29.46		29.19					21. 33. 32.57	- 2.44	
45	41 Capricorni ...	WB	49.3	52.0	54.8	59.9	2.8	5.7	13.5	16.1	18.9	21.9	21. 36. 5.53		6.43					21. 36. 9.81	- 4.42	
46	B.D.+9° No. 4890 ..	WB	43.4	45.9	48.1	53.3	55.9	58.4	6.0	8.1	10.7	13.3	21. 38. 58.35		58.95					21. 39. 2.33	- 3.65	
47	Groombridge 3597 ..	WB	...	...	...	...	...	...	56.5	16.7	36.0	55.2	21. 42. 2.01		59.92					21. 42. 3.30	- 1.43	
48	Lalande F. 1558 S.P. ..	WB	...	...	...	32.8	19.0	34.0	50.0	21.0	36.9	52.2	21. 46. 18.74		21.52					9. 46. 24.90	- 3.90	
49	Groombridge 3618 ..	WB	50.4	54.0	57.9	4.8	8.6	12.3	23.0	26.8	30.2	34.0	21. 52. 12.25		12.48					21. 52. 15.86	- 3.14	
50	Groombridge 3646 ..	WB	46.1	51.2	56.6	6.9	12.2	17.8	33.5	38.9	44.0	49.6	21. 56. 17.76		17.69					21. 56. 21.07	- 2.95	
51	Groombridge 3655 ..	WB	23.8	27.0	30.6	37.5	41.1	44.4	...	...	...	...	21. 58. 44.42		44.70					21. 58. 48.08	- 3.23	
52	Groombridge 3659 ..	WB	...	...	56.9	3.6	7.1	10.7	20.9	24.2	...	...	21. 59. 10.64		10.92					21. 59. 14.30	- 3.24	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 18 and 21, — 1^s.05 and — 1^s.06.
Corrections for passage of Semidiameter, Nos. 10 and 12, — 64^s.14 and + 0^s.41.

1. A correction of — 0^s.10, for defect of illumination, has been applied in forming the concluded transit.
6. Observed over wire T with the transit-micrometer set to readings 36^r.347, 36^r.190, 35^r.924, 35^r.383, 35^r.146, 35^r.004, 34^r.498, 34^r.244, 34^r.069, 33^r.394.
11. Observed over wire Q with the transit-micrometer set to readings 36^r.215, 36^r.144, 36^r.086, 35^r.995, 35^r.907, 35^r.834, 35^r.795, 35^r.734, 35^r.650, 35^r.574.
22. Observed over wire T with the transit-micrometer set to readings 34^r.600, 34^r.800, 35^r.000, 35^r.200, 35^r.400, 35^r.800, 36^r.000, 36^r.200, 36^r.400, 36^r.600.
24. Observed over wire T with the transit-micrometer set to readings 36^r.559, 36^r.395, 36^r.190, 36^r.024, 35^r.826, 35^r.640, 35^r.455, 35^r.358, 35^r.108, 34^r.965.
25. Observed over wire T with the transit-micrometer set to readings 34^r.774, 34^r.844, 34^r.931, 34^r.981, 35^r.035, 35^r.112, 35^r.174, 35^r.210, 35^r.290, 35^r.350.
32. Observed over wire T with the transit-micrometer set to readings 38^r.100, 37^r.100, 36^r.600, 36^r.100, 35^r.100, 34^r.600, 34^r.100, 33^r.100.
33. Observed in dark field with wires illuminated.

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.									
																							h	m	s
Sept. 28	1	Groombridge 3690	WB	9.6	13.6	17.8	26.0	30.0	34.1	46.1	50.2	54.2	58.6	22. 3. 34.08	+ 1.67	34.22			3.29	22. 3. 37.60	- 3.17				
	2	Groombridge 3696	WB	...	...	...	51.3	56.1	1.4	16.1	21.4	26.3	31.6	22. 5. 1.35	(- 0.10)	1.33			[+ 0.10]	22. 5. 4.71	- 3.09				
	3	Groombridge 3708	WB	17.5	21.5	25.5	33.7	37.5	41.8	53.5	57.6	1.8	5.9	22. 7. 41.69	[+ 11.13]	41.85				22. 7. 45.23	- 3.22				
	4	Bradley 2930	WB	8.1	10.5	13.1	18.1	20.5	23.0	30.6	32.9	35.5	38.0	22. 11. 23.07		23.83				22. 11. 27.21	- 4.13				
	5	Groombridge 3736	WB	0.5	4.0	7.1	13.6	16.9	20.4	30.2	33.5	36.9	40.2	22. 14. 20.38		20.69				22. 14. 24.07	- 3.39				
	6	Lalande F. 1662 S.P.	WB	...	14.7	32.0	49.0	39.5	57.3	14.2	48.6	4.9	...	22. 16. 39.70		42.72				10. 16. 46.10	- 2.58				
	7	Groombridge 3778	WB	6.0	15.4	24.8	43.1	52.2	1.2	29.2	38.5	47.5	57.3	22. 21. 1.66		0.98				22. 21. 4.36	- 3.28				
	8	Lalande F. 4175	WB	...	...	...	40.9	13.4	29.9	46.9	35.5	52.5	...	22. 23. 46.85		45.07				22. 23. 48.45	- 3.54				
	9	Groombridge 1665 S.P.	WB	14.9	19.3	23.9	28.3	42.0	46.2	50.9	59.9	4.7	9.1	22. 30. 41.85		42.94				10. 30. 46.32	- 2.38				
	10	Oeltz. Arg. (N.) 11067 S.P.	WB	8.2	15.4	22.0	28.3	48.0	54.1	0.8	14.2	20.9	27.4	22. 37. 47.83		49.26				10. 37. 52.64	- 2.24				
	11	Lalande F. 1706 S.P.	WB	36.9	53.5	10.5	27.8	45.7	19.4	37.8	54.1	11.9	30.0	22. 39. 52.72		58.29				10. 40. 1.67	- 0.00				
	12	42 Ursae Maj. S.P.	WB	19.4	24.8	29.8	34.6	49.4	54.4	59.3	8.8	13.9	18.7	22. 44. 49.24		50.39				10. 44. 53.77	- 2.20				
	13	Groombridge 1697 S.P.	WB	...	...	...	...	20.2	28.0	35.0	49.7	57.2	4.8	22. 46. 20.32		21.87				10. 46. 25.25	- 1.97				
	14	Groombridge 1713 S.P.	D	50.0	57.6	4.9	12.8	34.1	41.4	49.5	3.6	11.1	18.2	22. 51. 34.21		35.76				10. 51. 39.15	- 1.94				
	15	Carrington g S.P.	WB	49.6	11.9	26.0	45.8	4.9	28.1	47.9	0.7	23.7	42.9	22. 57. 20.52		51.01			3.17	10. 57. 54.28	+ 24.22				
	16	Groombridge 4008	WB	...	...	...	16.0	44.6	59.0	13.5	56.1	10.4	...	...	23. 5. 13.55		12.10			3.29	23. 5. 15.49	- 5.09			
	17	Oeltz. Arg. (N.) 25287	WB	...	44.1	54.6	14.3	24.0	34.0	3.4	13.1	23.0	...	23. 7. 34.00		33.23				23. 7. 30.62	- 4.53				
	18	γ Piscium	D	31.6	34.1	36.7	41.6	44.0	46.6	54.0	56.2	58.9	1.5	23. 11. 46.56		47.23	50.47	3.24	3.17	.....					
	19	Groombridge 4030	WB	44.9	48.5	52.2	59.6	3.3	6.9	18.0	21.5	25.2	29.1	23. 14. 6.98		7.21			3.29	23. 14. 10.60	- 3.83				
	20	Piazzi XI. 43 S.P.	WB	2.5	8.4	14.5	20.4	37.6	43.5	49.0	1.1	6.9	12.4	23. 16. 37.54		38.85				11. 16. 42.24	- 1.68				
	21	κ Piscium	D	21.3	23.8	26.2	31.1	33.7	36.1	43.4	46.0	48.5	51.0	23. 21. 36.15		36.83	40.12	3.29	3.17	.....					
	22	Groombridge 4073	WB	...	51.4	0.4	18.0	26.4	35.4	1.2	10.0	18.9	...	23. 23. 35.38		34.77			3.29	23. 23. 38.16	- 4.73				
	23	Bradley 3147	WB	38.0	46.9	54.0	1.1	7.5	14.0	20.0	26.9	33.0	40.1	23. 28. 5.15		59.47				23. 28. 2.86	- 12.21				
	24	ι Piscium	WB	21.3	23.5	26.1	31.1	33.5	36.0	43.3	46.0	48.3	50.8	23. 34. 36.03		36.67	40.06	3.39		23. 34. 40.06	- 4.08				
	25	ω Piscium	WB	43.4	45.9	48.2	53.2	55.6	58.2	5.6	8.1	10.5	13.1	23. 53. 58.22		58.86	2.26	3.40		23. 54. 2.25	- 4.09				
	26	α Andromedæ	WB	44.0	46.8	49.5	55.1	58.0	0.7	9.1	12.0	14.9	17.8	0. 3. 0.83		1.28	4.67	3.39	3.39	0. 3. 4.67	- 4.05				
	27	Bradley 1672 S.P.	WB	52.1	59.0	10.8	16.0	26.0	33.3	44.0	48.4	59.6	5.6	0. 13. 41.87		54.23				12. 13. 57.62	+ 24.26				
	28	Radcliffe 56	WB	16.0	45.5	14.9	42.0	5.7	56.9	20.5	48.0	11.1	38.0	0. 16. 29.86		12.40				0. 16. 15.79	- 45.03				
	29	ε Andromedæ	WB	46.9	49.8	52.2	58.1	0.9	3.8	12.1	15.1	17.6	20.5	0. 33. 3.74		4.19	7.62	3.43		0. 33. 7.58	- 4.13				
	30	π Cassiopeie	WB	21.8	25.3	29.0	36.1	39.8	43.5	54.0	57.8	1.2	5.0	0. 37. 43.40		43.64				0. 37. 47.03	- 4.39				
	31	* N.P.D. 32° 46'	WB	22.2	26.8	31.5	40.2	45.1	49.9	3.4	8.0	12.4	17.3	0. 42. 49.75		49.81				0. 42. 53.20	- 4.88				
	32	β Andromedæ	WB	36.8	39.9	42.9	48.8	51.9	55.1	4.0	6.9	9.8	12.8	1. 3. 54.94		55.33	58.73	3.40		1. 3. 58.72	- 4.30				
	33	Polaris	WB	3.6	9.8	24.5	37.4	50.0	57.6	10.9	20.0	32.1	47.1	1. 22. 2.14		46.30	50.85	4.55		1. 21. 49.70	- 57.00				
	34	β Tauri	AC	...	...	...	...	51.5	54.2	57.2	0.0	16.9	33.8	5. 19. 43.20		43.65	46.97	3.32	3.30	.....					
	35	Mars 1 L.	AC	21.5	24.1	...	...	...	37.7	...	...	51.0	53.9	5. 26. 37.56		38.48				5. 26. 41.80					
	36	Mars 2 L.	AC	...	...	27.7	33.1	35.6	...	46.2	49.1	...	...	5. 26. 38.40											
	37	δ 2 L.	AC	2.1	4.9	7.8	13.5	16.4	19.3	27.8	30.6	33.5	36.4	5. 45. 19.27		19.73				5. 44. 11.71					
Sept. 29	38	⊙ 2 L.	C	...	...	...	...	2.8	10.1	12.7	14.9	17.8	12. 26. 2.79		3.50				3.35	12. 25. 2.69					
	39	δ Ursæ Minoris	C	36.1	27.5	48.5	7.1	15.0	25.7	41.4	51.3	59.9	8.3	18. 5. 32.95		27.52			[+ 0.15]	18. 5. 30.98	+ 20.93				
	40	λ Sagittarii	C	...	...	...	...	32.2	40.2	43.1	45.9	48.7	18. 21. 32.23		33.15	36.54	3.39		.....						
	41	α Lyræ	C	4.1	7.1	10.3	16.7	19.9	22.9	32.4	35.6	38.8	42.1	18. 33. 23.04		23.38	26.89	3.51		.....					
	42	2 Aquilæ	C	18.6	21.0	23.7	28.5	31.1	33.6	40.9	43.5	46.0	48.6	18. 36. 33.59		34.35	37.85	3.50		.....					
	43	β Lyræ	B	54.9	57.8	0.8	6.6	9.6	12.6	21.4	24.2	27.2	30.2	18. 46. 12.57		12.97	16.51	3.54	3.39	18. 46. 16.48	- 2.12				
	44	Cephei 51 S.P.	C	2.6	17.5	32.0	40.8	49.0	57.5	14.0	22.2	31.6	44.8	18. 52. 2.89		10.76	13.44	2.68	3.35	6. 52. 14.23	- 28.11				
	45	B.D. + 68° No. 463 S.P.	B	...	...	...	...	36.1	42.2	55.4	2.1	9.1	18.5	19. 20. 10.10		30.53			3.39	6. 56. 34.04	- 5.90				
	46	Piazzi VI. 310 S.P.	C	...	...	...	...	31.4	36.2	46.3	51.8	56.6	19. 0. 26.12		27.30			3.35	7. 0. 30.77	- 5.01					
	47	ψ Sagittarii	C	52.7	55.6	58.1	3.5	6.4	9.2	17.4	20.1	22.9	25.6	19. 9. 9.19		10.10	13.57	3.47		.....					
	48	ω Aquilæ	B	39.6	42.1	44.6	49.5	52.1	54.9	2.2	4.9	7.4	10.0	19. 12. 54.77		55.35	58.91	3.56	3.39	19. 12. 58.86	- 2.86				
	49	λ Ursæ Minoris	C	51.5	6.1	17.5	27.8	37.3	45.6	3.2	13.7	25.1	36.4	19. 26. 17.04		57.53			3.35	19. 26. 1.00	+ 56.95				
	50	α Ceti	CD	35.6	38.0	40.5	45.4	48.0	50.3	57.8	0.2	2.5	5.1	2. 56. 50.38		51.04	54.45	3.40	3.33†	.....					
	51	δ Arietis	CD	...	...	...	36.0	38.3	41.1	48.8	51.5	54.1	56.9	3. 5. 41.12		41.65	44.94	3.29		.....					
	52	γ Geminorum	B	26.0	28.3	31.1	36.1	38.7	41.4	49.0	51.6	54.1	56.9	6. 31. 41.36		41.91	45.51	3.60	3.54	6. 31. 45.49	- 3.31				
	53	ε Geminorum	B	15.1	17.8	20.6	26.0	28.6	31.6	39.5	42.2	45.0	47.9	6. 37. 31.47		31.94				6. 37. 35.52	- 3.51				

Corrections for passage of Semidiameter, Nos. 37 and 38, — 71^s.36 and — 64^s.24.

11. Observed over wire R with the transit-micrometer set to readings 38^s.100, 37^s.600, 37^s.100, 36^s.600, 36^s.100, 35^s.100, 34^s.600, 34^s.100, 33^s.600, 33^s.100.
 15. Observed over wire T with the transit-micrometer set to readings 36^s.335, 36^s.230, 36^s.175, 36^s.065, 35^s.954, 35^s.262, 35^s.156, 35^s.082, 35^s.013, 34^s.935.
 23. Observed over wire T with the transit-micrometer set to readings 34^s.971, 35^s.175, 35^s.340, 35^s.491, 35^s.646, 35^s.804, 35^s.943, 36^s.103, 36^s.260, 36^s.418.
 27. Observed over wire U with the transit-micrometer set to readings 36^s.175, 36^s.092, 35^s.959, 35^s.782, 35^s.674, 35^s.556, 35^s.494, 35^s.336, 35^s.282.
 28. Observed over wire T with the transit-micrometer set to readings 34^s.600, 34^s.800, 35^s.000, 35^s.200, 35^s.400, 35^s.600, 36^s.000, 36^s.200, 36^s.400, 36^s.600.
 33. Observed over wire R with the transit-micrometer set to readings 35^s.000, 35^s.050, 35^s.197, 35^s.274, 35^s.435, 35^s.468, 35^s.586, 35^s.650, 35^s.794, 35^s.911.
 34. Observed over wires U, V, W, X, Y and Z.
 35. A correction of — 0^s.10, for defect of illumination, has been applied in forming the concluded transit.
 39. Observed over wire X with the transit-micrometer set to readings 42^s.540, 43^s.800, 44^s.288, 44^s.741, 44^s.939, 45^s.179, 45^s.560, 45^s.791, 45^s.990, 46^s.197.
 44. Observed over wire T with the transit-micrometer set to readings 35^s.601, 35^s.293, 35^s.033, 34^s.847, 34^s.698, 34^s.532, 34^s.181, 34^s.028, 33^s.878, 33^s.602.
 49.

1898GOAW...58A...1C

[64]

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898G0A0W...

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Reduc- tion to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].									
															#	s								
Sept. 29	1	Sirius.....	B	...	...	...	...	...	32.1	39.7	42.2	44.8	47.5	6.40.32.04	+ 1.67 (- 0.10)	32.87			3.54	6.40.36.45	- 2.44			
	2	2 L.....	B	42.2	45.1	48.0	53.6	56.4	59.5	7.8	10.5	13.4	16.2	6.43.59.31	[+ 11.13]	59.77			[+ 0.15]	6.42.51.67				
	3	Cephei 51	B	27.1	37.2	47.5	57.6	7.5	28.6	38.1	48.2	57.7	8.4	6.52.17.79	[+ 11.55]	10.74	13.73	2.99		6.52.14.32	- 28.40			
	4	ζ Geminorum ...	B	39.9	42.4	44.5	...	...	55.8	...	6.0	8.7	11.5	6.57.55.64	[+ 11.91]	56.18	59.69	3.51		6.57.59.76	- 3.28			
	5	δ Geminorum ...	B	38.0	40.5	43.1	48.5	51.1	54.0	1.8	4.4	7.1	9.9	7.13.53.88		54.41	57.93	3.52		7.13.58.00	- 3.24			
	6	β Canis Minoris..	B	...	...	19.4	24.1	26.7	29.4	36.5	39.1	...	...	7.21.29.25		29.89	33.47	3.58		7.21.33.48	- 2.85			
	7	Castor	B	39.8	42.7	45.7	51.4	54.1	57.3	6.0	8.9	11.9	14.9	7.27.57.31		57.74	1.29	3.55		7.28.1.33	- 3.42			
	8	Castor .....(E&E)	B	6.4	24.1	41.6	59.1	16.8	34.0	51.6	...	...	...	7.27.57.30		57.73	1.29	3.56		.....				
	9	Procyon.....	B	...	37.5	40.0	45.0	47.4	50.0	57.4	59.9	2.1	...	7.33.49.96		50.64	54.23	3.59		7.33.54.23	- 2.68			
	10	Pollux	B	39.5	42.1	45.1	50.5	53.4	56.2	4.5	7.4	10.1	13.1	7.38.56.23		56.70	0.35	3.65		7.39.0.29	- 3.21			
	11	Pollux .....(E&E)	B	7.7	24.5	41.1	58.1	15.0	31.8	48.6	...	...	...	7.38.56.32		56.79	0.35	3.56		.....				
	12	α Hydrae	B	11.1	13.5	16.0	21.1	23.6	26.1	33.5	36.0	38.5	41.0	9.22.26.08		26.88	30.45	3.57		9.22.30.48	- 1.88			
	13	ε Leonis.....	B	39.0	41.6	44.3	49.8	52.5	55.3	3.2	6.0	8.8	11.5	9.39.55.24		55.74	59.33	3.59		9.39.59.34	- 2.44			
	14	Regulus.....	WB	32.8	35.3	37.9	42.9	45.3	48.0	55.5	58.0	0.5	3.1	10.2.47.97		48.58	52.12	3.54	3.48 [+ 0.20]	10.2.52.14	- 2.12			
Sept. 30	15	⊙ 1 L.....	WB	16.0	18.6	21.2	26.1	28.6	31.0	38.5	40.9	43.4	46.0	12.27.31.07	(- 0.37)	36.17				12.28.39.75				
	16	⊙ 2 L.....	WB	24.6	27.2	29.6	34.6	37.0	39.5	47.0	49.4	52.0	54.5	12.29.39.58		49.62	51.35	1.73		1.21.53.21	- 57.50			
	17	Polaris S.P.	WB	43.3	48.1	58.2	2.9	12.1	21.0	28.2	32.9	41.6	47.8	13.21.30.46		53.00	56.58	3.58		14.10.56.60	- 1.55			
	18	Arcturus	WB	36.8	39.4	42.0	47.1	49.8	52.5	0.1	2.9	5.5	8.1	14.10.52.46		14.92	18.59	3.67		15.30.18.53	- 1.56			
	19	α Coronæ	WB	57.6	0.5	3.3	9.0	11.6	14.5	22.8	25.4	28.3	31.1	15.30.14.45		7.10	10.62	3.52		15.39.10.71	- 1.95			
	20	α Serpentis	WB	...	53.9	56.5	1.4	3.9	6.3	13.9	16.4	18.9	...	15.39.6.45		23.82	27.42	3.60		17.4.27.44	- 2.71			
	21	η Ophiuchi	WB	7.6	10.1	12.7	17.9	20.3	22.9	30.6	33.1	35.7	38.3	17.4.22.96		52.81	56.40	3.59		17.9.56.43	- 2.14			
	22	α Herculis	WB	36.9	39.5	42.0	47.1	49.6	52.2	59.8	2.2	5.0	7.6	17.9.52.23		25.68				18.5.29.31	+ 21.39			
	23	δ Ursæ Minoris...	WB	28.2	34.0	45.6	51.8	1.1	5.9	16.9	20.9	30.6	35.8	18.5.31.87		54.87	58.47	3.60		18.15.58.50	- 2.84			
	24	η Serpentis	WB	39.3	41.9	44.2	49.2	51.6	54.1	1.4	4.0	6.3	8.9	18.15.54.13		10.68	14.02	3.34		6.52.14.32	- 28.69			
	25	Cephei 51 S.P. ...	WB	10.1	17.9	24.5	30.8	37.6	44.0	48.9	55.1	0.9	9.6	18.52.1.83		30.51			3.54	6.56.34.21	- 5.97			
	26	B.D. + 68° No. 463 S.P.	B	49.5	56.0	2.6	9.1	28.9	35.9	42.2	55.4	2.0	8.8	18.56.28.94		21.78	25.23	3.45	3.38	.....				
	27	α Vulpeculæ.....	EB	4.9	7.6	10.2	15.8	18.5	21.5	29.5	32.1	34.6	37.8	19.24.21.29		59.04			3.48	19.26.2.68	+ 58.48			
	28	λ Ursæ Minoris...	WB	55.9	4.2	11.1	17.5	24.1	30.5	38.4	49.0	56.1	2.8	19.26.21.14		22.96	26.59	3.63	3.38	.....				
	29	λ Sagittarii	EB	5.7	8.2	11.0	16.5	19.2	22.0	30.1	32.9	35.7	38.3	19.30.22.00		18.09	21.90	3.81	3.48	19.41.21.73	- 3.03			
	30	γ Aquilæ .....R.	WB	2.2	4.9	7.5	12.4	14.9	17.4	...	...	...	...	19.41.17.43		41.96	45.62	3.66		19.45.45.60	- 3.12			
	31	α Aquilæ	WB	26.3	28.9	31.3	36.2	38.9	41.4	48.8	51.3	53.6	56.2	19.45.41.33		14.21	17.87	3.66		20.28.17.86	- 3.26			
	32	ε Delphini.....	WB	58.4	0.9	3.6	8.5	11.0	13.6	21.1	23.5	26.1	28.9	20.28.13.60		22.75				8.47.26.40	- 9.93			
	33	Radcliffe 2198 S.P.	WB	5.2	19.1	34.0	48.2	2.9	32.2	...	...	...	...	20.47.17.44		0.47				8.46.4.12	- 11.59			
	34	Radcliffe 2189 S.P.	WB	25.4	30.7	35.6	40.0	45.3	49.6	55.7	1.4	6.5	11.0	20.45.54.16		38.58			3.44	20.50.42.19	- 2.24			
	35	Radcliffe 5019 ...	D	...	...	...	29.6	34.0	38.9	51.5	56.1	0.9	5.3	20.50.38.55		5.27			3.48	20.55.8.92	- 3.75			
	36	ι Aquarii.....	WB	49.6	52.0	54.6	59.6	2.0	4.5	11.9	14.2	16.9	19.4	20.55.4.51		13.33				20.57.16.98	- 0.96			
	37	Groombridge 3384	WB	15.8	25.1	35.4	54.4	4.5	14.3	43.2	52.5	2.6	13.0	20.57.14.23		1.53			3.44	20.59.5.14	- 4.08			
	38	Piazzi XX. 443...	D	45.1	47.8	50.3	55.5	58.0	0.7	8.1	11.0	13.5	16.1	20.59.0.65		14.67			3.48	9.1.18.33	- 4.01			
	39	σ Ursæ Maj. S.P.	WB	...	...	...	12.9	19.9	26.3	39.1	45.3	52.1	21.1	1.13.13		30.04	33.66	3.62	3.44	.....				
	40	ζ Cygni	D	12.5	15.3	18.1	23.9	26.8	29.6	38.0	40.8	43.8	46.9	21.8.29.61		46.45			3.48	21.12.50.11	- 2.87			
	41	Groombridge 3421	WB	26.1	29.3	32.8	39.4	42.9	46.2	56.1	59.4	2.8	6.1	21.12.46.16		26.31				21.13.29.97	- 2.87			
	42	Groombridge 3424	WB	...	9.4	12.8	19.3	22.4	26.0	36.0	39.1	42.7	...	21.13.26.02		50.07				21.19.53.73	- 4.36			
	43	Lalande 41596 ...	WB	32.9	35.5	38.2	43.8	46.2	49.3	57.2	0.0	2.5	5.2	21.19.49.12		52.73				21.27.56.39	- 2.52			
	44	Groombridge 3488	WB	21.9	26.9	32.1	42.4	47.4	52.9	8.2	13.4	18.5	23.8	21.27.52.83		16.23				21.32.19.89	- 2.41			
	45	Groombridge 3516	WB	39.7	45.9	52.0	4.0	10.2	16.4	34.9	41.0	46.9	53.2	21.32.16.51		23.56				21.34.27.22	- 2.60			
	46	Piazzi XXI. 241..	WB	...	...	...	...	...	...	39.1	44.5	49.7	55.0	21.34.23.67		27.34				21.37.31.00	- 1.37			
	47	Lalande F. 3912..	WB	...	...	...	13.9	29.4	14.9	29.4	45.0	0.5	21.37.29.17		49.66				9.42.53.32	- 7.38				
	48	Lalande F. 1479 S.P.	WB	41.5	50.0	56.1	2.9	9.7	16.0	23.1	29.5	35.7	41.8	21.42.41.18		0.85				9.48.4.51	- 4.05			
	49	Carrington 1447 S.P.	WB	24.0	40.2	56.1	11.1	57.5	14.1	...	...	...	...	21.47.57.74		27.17				[9.50.30.83]	- 2.87			
	50	Oeltz. Arg. (N.) 10371 S.P.	WB	...	4.9	9.1	13.4	25.4	30.3	34.9	42.8	48.1	...	21.50.26.03		17.31				21.56.20.97	- 2.89			
	51	Groombridge 3646	WB	45.7	50.9	56.1	6.5	11.8	17.5	33.3	38.5	43.9	49.4	21.56.17.44		39.02				22.4.42.68	- 3.04			
	52	Groombridge 3695	WB	8.9	14.0	19.0	29.1	34.0	39.0	53.9	59.1	3.8	9.3	22.4.39.09										

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 8 and 11, — 1^h 82 and — 1^h 82.
Correction for passage of Semidiameter, No. 2, — 71^h 70.

- 1, 3, 4, 5, 6. Cloudy.
2. Correction to R.A. on true meridian, + 0^h 02.
3. Observed over wire T with the transit-micrometer set to readings 34^h 600, 34^h 800, 35^h 000, 35^h 200, 35^h 400, 35^h 800, 36^h 000, 36^h 200, 36^h 400, 36^h 600.
- 15, 16. Limb very diffused.
17. Observed over wire T with the transit-micrometer set to readings 36^h 540, 36^h 490, 36^h 396, 36^h 358, 36^h 289, 36^h 215, 36^h 158, 36^h 107, 36^h 030, 35^h 981.
23. Observed over wire X with the transit-micrometer set to readings 36^h 088, 36^h 836, 37^h 086, 37^h 237, 37^h 454, 37^h 573, 37^h 840, 37^h 944, 38^h 176, 38^h 276.
25. Observed over wire T with the transit-micrometer set to readings 35^h 439, 35^h 281, 35^h 150, 35^h 039, 34^h 900, 34^h 755, 34^h 674, 34^h 558, 34^h 416, 34^h 275.
28. Observed over wire T with the transit-micrometer set to readings 35^h 404, 35^h 483, 35^h 538, 35^h 598, 35^h 634, 35^h 679, 35^h 727, 35^h 770, 35^h 835, 35^h 894.
33. Observed over wire T with the transit-micrometer set to readings 38^h 100, 37^h 600, 37^h 100, 36^h 600, 36^h 100, 35^h 100.
34. Observed over wire Q with the transit-micrometer set to readings 35^h 297, 35^h 129, 35^h 015, 34^h 857, 34^h 722, 34<

MONTH and DATE	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.										
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].																		
Sept. 30	1	θ Aquarii	WB	5'2	7'9	10'3	15'2	17'9	20'3	27'6	30'1	32'8	35'3	22. 11. 20'30	+ 1'67	21'09	24'79	3'70	3'48	22. 11. 24'75	- 4'08													
	2	Groombridge 3742 <td>WB</td> <td>21'1</td> <td>24'9</td> <td>28'3</td> <td>35'8</td> <td>39'4</td> <td>42'9</td> <td>53'9</td> <td>57'5</td> <td>1'1</td> <td>4'8</td> <td>22. 15. 43'02</td> <td>(- 0'37)</td> <td>43'23</td> <td></td> <td></td> <td>[+ 0'20]</td> <td>22. 15. 46'90</td> <td>- 3'32</td>	WB	21'1	24'9	28'3	35'8	39'4	42'9	53'9	57'5	1'1	4'8	22. 15. 43'02	(- 0'37)	43'23			[+ 0'20]	22. 15. 46'90	- 3'32													
	3	Lalande F. 4124 <td>WB</td> <td>...</td> <td>...</td> <td>...</td> <td>27'8</td> <td>34'0</td> <td>40'1</td> <td>58'3</td> <td>4'2</td> <td>9'6</td> <td>16'0</td> <td>22. 18. 39'90</td> <td>[+ 11'91]</td> <td>39'62</td> <td></td> <td></td> <td></td> <td>22. 18. 43'29</td> <td>- 3'18</td>	WB	...	...	...	27'8	34'0	40'1	58'3	4'2	9'6	16'0	22. 18. 39'90	[+ 11'91]	39'62				22. 18. 43'29	- 3'18													
	4	Bradley 2993 <td>WB</td> <td>54'2</td> <td>1'5</td> <td>7'9</td> <td>13'6</td> <td>20'1</td> <td>26'9</td> <td>33'4</td> <td>39'8</td> <td>47'5</td> <td>53'8</td> <td>22. 21. 38'75</td> <td></td> <td>33'99</td> <td></td> <td></td> <td></td> <td>22. 21. 37'66</td> <td>- 3'60</td>	WB	54'2	1'5	7'9	13'6	20'1	26'9	33'4	39'8	47'5	53'8	22. 21. 38'75		33'99				22. 21. 37'66	- 3'60													
	5	β Piscis Australis <td>WB</td> <td>17'8</td> <td>20'9</td> <td>24'0</td> <td>29'8</td> <td>32'6</td> <td>35'8</td> <td>...</td> <td>46'9</td> <td>50'1</td> <td>...</td> <td>22. 25. 35'59</td> <td></td> <td>36'65</td> <td></td> <td></td> <td></td> <td>22. 25. 40'32</td> <td>- 4'81</td>	WB	17'8	20'9	24'0	29'8	32'6	35'8	...	46'9	50'1	...	22. 25. 35'59		36'65				22. 25. 40'32	- 4'81													
	6	Groomb. 1665 S.P. <td>WB</td> <td>14'2</td> <td>18'9</td> <td>23'4</td> <td>28'0</td> <td>41'4</td> <td>46'0</td> <td>50'3</td> <td>59'5</td> <td>4'2</td> <td>8'6</td> <td>22. 30. 41'38</td> <td></td> <td>42'56</td> <td></td> <td></td> <td></td> <td>10. 30. 46'23</td> <td>- 2'43</td>	WB	14'2	18'9	23'4	28'0	41'4	46'0	50'3	59'5	4'2	8'6	22. 30. 41'38		42'56				10. 30. 46'23	- 2'43													
	7	Oeltz. Arg. (N.) 11067 S.P. <td>WB</td> <td>8'1</td> <td>14'9</td> <td>21'3</td> <td>28'0</td> <td>47'4</td> <td>54'2</td> <td>0'7</td> <td>14'0</td> <td>20'7</td> <td>27'2</td> <td>22. 37. 47'55</td> <td></td> <td>49'12</td> <td></td> <td></td> <td></td> <td>10. 37. 52'79</td> <td>- 2'31</td>	WB	8'1	14'9	21'3	28'0	47'4	54'2	0'7	14'0	20'7	27'2	22. 37. 47'55		49'12				10. 37. 52'79	- 2'31													
	8	Groombridge 3886 <td>WB</td> <td>47'7</td> <td>51'9</td> <td>56'1</td> <td>4'4</td> <td>8'7</td> <td>13'0</td> <td>25'8</td> <td>29'9</td> <td>34'0</td> <td>38'5</td> <td>22. 42. 13'06</td> <td></td> <td>13'14</td> <td></td> <td></td> <td></td> <td>22. 42. 16'81</td> <td>- 3'53</td>	WB	47'7	51'9	56'1	4'4	8'7	13'0	25'8	29'9	34'0	38'5	22. 42. 13'06		13'14				22. 42. 16'81	- 3'53													
	9	Groomb. 1697 S.P. <td>WB</td> <td>...</td> <td>...</td> <td>50'4</td> <td>58'0</td> <td>20'0</td> <td>27'8</td> <td>35'0</td> <td>49'9</td> <td>...</td> <td>...</td> <td>22. 46. 20'03</td> <td></td> <td>21'74</td> <td></td> <td></td> <td></td> <td>10. 46. 25'41</td> <td>- 2'04</td>	WB	...	...	50'4	58'0	20'0	27'8	35'0	49'9	...	...	22. 46. 20'03		21'74				10. 46. 25'41	- 2'04													
	10	Groomb. 1713 S.P. <td>WB</td> <td>50'0</td> <td>57'4</td> <td>5'0</td> <td>12'6</td> <td>34'1</td> <td>41'7</td> <td>48'8</td> <td>3'6</td> <td>10'7</td> <td>18'2</td> <td>22. 51. 34'10</td> <td></td> <td>35'81</td> <td></td> <td></td> <td></td> <td>10. 51. 39'48</td> <td>- 2'01</td>	WB	50'0	57'4	5'0	12'6	34'1	41'7	48'8	3'6	10'7	18'2	22. 51. 34'10		35'81				10. 51. 39'48	- 2'01													
	11	Lalande F. 1729 S.P. <td>WB</td> <td>37'5</td> <td>49'1</td> <td>55'4</td> <td>5'1</td> <td>11'7</td> <td>22'0</td> <td>26'9</td> <td>37'3</td> <td>42'1</td> <td>53'5</td> <td>23. 2. 55'21</td> <td></td> <td>8'65</td> <td></td> <td></td> <td></td> <td>11. 3. 12'32</td> <td>+ 7'98</td>	WB	37'5	49'1	55'4	5'1	11'7	22'0	26'9	37'3	42'1	53'5	23. 2. 55'21		8'65				11. 3. 12'32	+ 7'98													
	12	B. F. 3183 <td>WB</td> <td>57'6</td> <td>0'1</td> <td>2'5</td> <td>7'4</td> <td>10'0</td> <td>12'5</td> <td>19'9</td> <td>22'3</td> <td>24'9</td> <td>27'4</td> <td>23. 10. 15'50</td> <td></td> <td>13'25</td> <td></td> <td></td> <td></td> <td>23. 10. 16'92</td> <td>- 4'14</td>	WB	57'6	0'1	2'5	7'4	10'0	12'5	19'9	22'3	24'9	27'4	23. 10. 15'50		13'25				23. 10. 16'92	- 4'14													
	13	Oeltz. Arg. (N.) 11669 S.P. <td>WB</td> <td>50'7</td> <td>56'0</td> <td>1'6</td> <td>7'4</td> <td>23'4</td> <td>28'3</td> <td>34'2</td> <td>44'9</td> <td>50'5</td> <td>56'0</td> <td>23. 14. 23'22</td> <td></td> <td>24'57</td> <td></td> <td></td> <td></td> <td>11. 14. 28'24</td> <td>- 1'82</td>	WB	50'7	56'0	1'6	7'4	23'4	28'3	34'2	44'9	50'5	56'0	23. 14. 23'22		24'57				11. 14. 28'24	- 1'82													
	14	κ Piscium <td>WB</td> <td>21'0</td> <td>23'4</td> <td>26'0</td> <td>30'9</td> <td>33'2</td> <td>35'9</td> <td>43'0</td> <td>45'5</td> <td>48'0</td> <td>50'6</td> <td>23. 21. 35'79</td> <td></td> <td>36'49</td> <td>40'12</td> <td>3'63</td> <td></td> <td>23. 21. 40'16</td> <td>- 4'10</td>	WB	21'0	23'4	26'0	30'9	33'2	35'9	43'0	45'5	48'0	50'6	23. 21. 35'79		36'49	40'12	3'63		23. 21. 40'16	- 4'10													
	15	Groomb. 4073 (1st Star) <td>WB</td> <td>42'8</td> <td>51'4</td> <td>0'1</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>9'2</td> <td>18'5</td> <td>27'4</td> <td>23. 23. 35'00</td> <td></td> <td>34'27</td> <td></td> <td></td> <td></td> <td>23. 23. 37'94</td> <td>- 4'70</td>	WB	42'8	51'4	0'1	...	...	...	...	9'2	18'5	27'4	23. 23. 35'00		34'27				23. 23. 37'94	- 4'70													
	16	Groomb. 4073 (2nd Star) <td>WB</td> <td>...</td> <td>...</td> <td>...</td> <td>17'9</td> <td>26'5</td> <td>35'3</td> <td>1'0</td> <td>...</td> <td>...</td> <td>...</td> <td>23. 23. 35'36</td> <td></td> <td>34'63</td> <td></td> <td></td> <td></td> <td>23. 23. 38'30</td> <td>- 4'70</td>	WB	...	...	...	17'9	26'5	35'3	1'0	...	...	...	23. 23. 35'36		34'63				23. 23. 38'30	- 4'70													
	17	ι Piscium <td>AC</td> <td>20'9</td> <td>23'3</td> <td>25'9</td> <td>30'9</td> <td>33'2</td> <td>35'8</td> <td>43'1</td> <td>45'5</td> <td>48'1</td> <td>50'7</td> <td>23. 34. 35'78</td> <td></td> <td>36'44</td> <td>40'06</td> <td>3'62</td> <td>3'45†</td> <td>.....</td> <td></td>	AC	20'9	23'3	25'9	30'9	33'2	35'8	43'1	45'5	48'1	50'7	23. 34. 35'78		36'44	40'06	3'62	3'45†															
	18	Lalande F. 4560 <td>WB</td> <td>18'0</td> <td>32'0</td> <td>46'1</td> <td>0'1</td> <td>13'6</td> <td>41'8</td> <td>56'1</td> <td>10'5</td> <td>24'7</td> <td>38'6</td> <td>23. 39. 28'15</td> <td></td> <td>24'25</td> <td></td> <td></td> <td>3'48</td> <td>23. 39. 27'93</td> <td>- 9'50</td>	WB	18'0	32'0	46'1	0'1	13'6	41'8	56'1	10'5	24'7	38'6	23. 39. 28'15		24'25			3'48	23. 39. 27'93	- 9'50													
	19	Groombridge 4169 <td>WB</td> <td>2'1</td> <td>56'1</td> <td>0'2</td> <td>8'5</td> <td>12'5</td> <td>16'7</td> <td>29'1</td> <td>33'2</td> <td>37'3</td> <td>41'3</td> <td>23. 51. 16'76</td> <td></td> <td>16'87</td> <td></td> <td></td> <td></td> <td>23. 51. 20'55</td> <td>- 4'21</td>	WB	2'1	56'1	0'2	8'5	12'5	16'7	29'1	33'2	37'3	41'3	23. 51. 16'76		16'87				23. 51. 20'55	- 4'21													
	20	ω Piscium <td>AC</td> <td>43'1</td> <td>45'5</td> <td>48'0</td> <td>52'9</td> <td>55'4</td> <td>58'0</td> <td>5'2</td> <td>7'8</td> <td>10'2</td> <td>12'9</td> <td>23. 53. 57'94</td> <td></td> <td>58'59</td> <td>2'26</td> <td>3'67</td> <td>3'45†</td> <td>.....</td> <td></td>	AC	43'1	45'5	48'0	52'9	55'4	58'0	5'2	7'8	10'2	12'9	23. 53. 57'94		58'59	2'26	3'67	3'45†															
	21	Groombridge 4029 <td>WB</td> <td>16'1</td> <td>24'4</td> <td>32'8</td> <td>49'1</td> <td>57'3</td> <td>6'0</td> <td>30'4</td> <td>38'9</td> <td>47'0</td> <td>55'6</td> <td>23. 58. 5'88</td> <td></td> <td>5'22</td> <td></td> <td></td> <td>3'48</td> <td>23. 58. 8'90</td> <td>- 5'35</td>	WB	16'1	24'4	32'8	49'1	57'3	6'0	30'4	38'9	47'0	55'6	23. 58. 5'88		5'22			3'48	23. 58. 8'90	- 5'35													
	22	α Andromedæ <td>WB</td> <td>43'4</td> <td>46'2</td> <td>49'3</td> <td>...</td> <td>57'6</td> <td>0'5</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>0. 3. 0'41</td> <td></td> <td>0'86</td> <td>4'68</td> <td>3'82</td> <td>3'68</td> <td>0. 3. 4'54</td> <td>- 4'06</td>	WB	43'4	46'2	49'3	...	57'6	0'5	...	...	...	...	0. 3. 0'41		0'86	4'68	3'82	3'68	0. 3. 4'54	- 4'06													
	23	γ Pegasi <td>WB</td> <td>37'2</td> <td>39'8</td> <td>42'2</td> <td>47'4</td> <td>50'0</td> <td>52'8</td> <td>0'0</td> <td>2'7</td> <td>5'3</td> <td>8'0</td> <td>0. 7. 52'58</td> <td></td> <td>53'16</td> <td>56'82</td> <td>3'66</td> <td></td> <td>0. 7. 56'84</td> <td>- 4'07</td>	WB	37'2	39'8	42'2	47'4	50'0	52'8	0'0	2'7	5'3	8'0	0. 7. 52'58		53'16	56'82	3'66		0. 7. 56'84	- 4'07													
	24	σ Andromedæ <td>WB</td> <td>35'2</td> <td>38'1</td> <td>41'4</td> <td>47'4</td> <td>50'4</td> <td>53'8</td> <td>2'8</td> <td>5'9</td> <td>8'9</td> <td>12'0</td> <td>0. 12. 53'64</td> <td></td> <td>54'01</td> <td></td> <td></td> <td></td> <td>0. 12. 57'69</td> <td>- 4'13</td>	WB	35'2	38'1	41'4	47'4	50'4	53'8	2'8	5'9	8'9	12'0	0. 12. 53'64		54'01				0. 12. 57'69	- 4'13													
	25	40 Piscium <td>WB</td> <td>18'1</td> <td>20'8</td> <td>23'2</td> <td>28'4</td> <td>30'9</td> <td>33'5</td> <td>41'3</td> <td>43'7</td> <td>46'2</td> <td>49'0</td> <td>0. 14. 33'55</td> <td></td> <td>34'13</td> <td></td> <td></td> <td></td> <td>0. 14. 37'81</td> <td>- 4'08</td>	WB	18'1	20'8	23'2	28'4	30'9	33'5	41'3	43'7	46'2	49'0	0. 14. 33'55		34'13				0. 14. 37'81	- 4'08													
	26	7 Draconis S.P. <td>WB</td> <td>...</td> <td>42'5</td> <td>48'9</td> <td>55'1</td> <td>13'9</td> <td>21'5</td> <td>27'3</td> <td>40'1</td> <td>46'2</td> <td>...</td> <td>0. 43. 14'32</td> <td></td> <td>15'86</td> <td></td> <td></td> <td></td> <td>12. 43. 19'55</td> <td>- 0'31</td>	WB	...	42'5	48'9	55'1	13'9	21'5	27'3	40'1	46'2	...	0. 43. 14'32		15'86				12. 43. 19'55	- 0'31													
	27	Bradley 1726 S.P. <td>WB</td> <td>14'4</td> <td>18'9</td> <td>23'4</td> <td>27'5</td> <td>40'0</td> <td>44'5</td> <td>49'0</td> <td>57'4</td> <td>1'8</td> <td>6'1</td> <td>0. 51. 40'24</td> <td></td> <td>41'37</td> <td></td> <td></td> <td></td> <td>12. 51. 45'06</td> <td>- 1'06</td>	WB	14'4	18'9	23'4	27'5	40'0	44'5	49'0	57'4	1'8	6'1	0. 51. 40'24		41'37				12. 51. 45'06	- 1'06													
	28	ε Piscium <td>WB</td> <td>...</td> <td>20'0</td> <td>22'6</td> <td>27'6</td> <td>30'0</td> <td>32'5</td> <td>40'0</td> <td>42'4</td> <td>45'0</td> <td>...</td> <td>0. 57. 32'56</td> <td></td> <td>33'20</td> <td>36'79</td> <td>3'59</td> <td></td> <td>0. 57. 36'89</td> <td>- 4'14</td>	WB	...	20'0	22'6	27'6	30'0	32'5	40'0	42'4	45'0	...	0. 57. 32'56		33'20	36'79	3'59		0. 57. 36'89	- 4'14													
	29	β Andromedæ <td>WB</td> <td>36'8</td> <td>39'6</td> <td>42'6</td> <td>48'6</td> <td>51'6</td> <td>54'6</td> <td>3'8</td> <td>6'6</td> <td>9'6</td> <td>12'7</td> <td>1. 3. 54'70</td> <td></td> <td>55'08</td> <td>58'76</td> <td>3'68</td> <td></td> <td>1. 3. 58'77</td> <td>- 4'33</td>	WB	36'8	39'6	42'6	48'6	51'6	54'6	3'8	6'6	9'6	12'7	1. 3. 54'70		55'08	58'76	3'68		1. 3. 58'77	- 4'33													
	30	Polaris <td>WB</td> <td>40'9</td> <td>48'0</td> <td>2'1</td> <td>9'1</td> <td>20'9</td> <td>26'7</td> <td>39'0</td> <td>44'3</td> <td>3'8</td> <td>16'9</td> <td>1. 22. 7'62</td> <td></td> <td>49'66</td> <td>51'49</td> <td>1'83</td> <td></td> <td>1. 21. 53'35</td> <td>- 57'64</td>	WB	40'9	48'0	2'1	9'1	20'9	26'7	39'0	44'3	3'8	16'9	1. 22. 7'62		49'66	51'49	1'83		1. 21. 53'35	- 57'64													
Oct. 1	31	α Andromedæ ...	W	43'4	46'1	49'2	54'6	57'4	0'2	8'7	11'5	14'1	17'3	0. 3. 0'29	[+ 10'93]	0'71	4'68	3'97	3'93															
	32	Groombridge 4243 <td>W</td> <td>...</td> <td>46'0</td> <td>49'2</td> <td>56'4</td> <td>0'1</td> <td>3'9</td> <td>14'0</td> <td>17'5</td> <td>21'2</td> <td>...</td> <td>0. 4. 3'61</td> <td></td> <td>3'83</td> <td></td> <td></td> <td>[+ 0'20]</td> <td>0. 4. 7'76</td> <td>- 4'19</td>	W	...	46'0	49'2	56'4	0'1	3'9	14'0	17'5	21'2	...	0. 4. 3'61		3'83			[+ 0'20]	0. 4. 7'76	- 4'19													
	33	Groombridge 1 <td>W</td> <td>...</td> <td>...</td> <td>...</td> <td>31'9</td> <td>35'1</td> <td>38'9</td> <td>49'5</td> <td>...</td> <td>...</td> <td>...</td> <td>0. 4. 38'92</td> <td></td> <td>39'14</td> <td></td> <td></td> <td></td> <td>0. 4. 43'07</td> <td>- 4'19</td>	W	...	...	...	31'9	35'1	38'9	49'5	...	...	...	0. 4. 38'92		39'14				0. 4. 43'07	- 4'19													
	34	γ Pegasi <td>W</td> <td>...</td> <td>39'8</td> <td>42'2</td> <td>47'1</td> <td>49'8</td> <td>52'3</td> <td>0'0</td> <td>2'4</td> <td>5'1</td> <td>...</td> <td>0. 7. 52'39</td> <td></td> <td>52'93</td> <td>56'82</td> <td>3'89</td> <td></td> <td>.....</td> <td></td>	W	...	39'8	42'2	47'1	49'8	52'3	0'0	2'4	5'1	...	0. 7. 52'39		52'93	56'82	3'89																
	35	45 Piscium <td>W</td> <td>4'9</td> <td>7'5</td> <td>10'1</td> <td>14'9</td> <td>17'3</td> <td>20'0</td> <td>...</td> <td>...</td> <td>...</td> <td>4'5</td> <td>0. 20. 19'92</td> <td></td> <td>20'52</td> <td></td> <td></td> <td></td> <td>0. 20. 24'45</td> <td>- 4'13</td>	W	4'9	7'5	10'1	14'9	17'3	20'0	...	...	...	4'5	0. 20. 19'92		20'52				0. 20. 24'45	- 4'13													
	36	Piazzi O. 148 <td>W</td> <td>48'7</td> <td>51'1</td> <td>54'0</td> <td>59'5</td> <td>2'0</td> <td>4'9</td> <td>12'9</td> <td>15'5</td> <td>18'1</td> <td>20'9</td> <td>0. 36. 4'80</td> <td></td> <td>5'26</td> <td></td> <td></td> <td></td> <td>0. 36. 9'20</td> <td>- 4'15</td>	W	48'7	51'1	54'0	59'5	2'0	4'9	12'9	15'5	18'1	20'9	0. 36. 4'80		5'26				0. 36. 9'20	- 4'15													
	37	W.B. (2) 0. 1333-4 <td>W</td> <td>...</td> <td>3'0</td> <td>5'9</td> <td>11'6</td> <td>14'3</td> <td>17'4</td> <td>...</td> <td>29'5</td> <td>32'0</td> <td>34'7</td> <td>0. 54. 17'51</td> <td></td> <td>17'90</td> <td></td> <td></td> <td></td> <td>0. 54. 21'84</td> <td>- 4'26</td>	W	...	3'0	5'9	11'6	14'3	17'4	...	29'5	32'0	34'7	0. 54. 17'51		17'90				0. 54. 21'84	- 4'26													
	38	ε Piscium <td>W</td> <td>17'2</td> <td>19'9</td> <td>22'4</td> <td>27'4</td> <td>29'9</td> <td>32'3</td> <td>39'7</td> <td>42'1</td> <td>44'5</td> <td>47'2</td> <td>0. 57. 32'30</td> <td></td> <td>32'90</td> <td>36'80</td> <td>3'90</td> <td></td> <td>.....</td> <td></td>	W	17'2	19'9	22'4	27'4	29'9	32'3	39'7	42'1	44'5	47'2	0. 57. 32'30		32'90	36'80	3'90																
	39	β Andromedæ ...	W	36'2	39'3	42'2	48'2	51'5	54'4	3'4	6'4	9'5	12'5	1. 3. 54'41		54'77	58'77	4'00																
	40	32 Cassiopeiæ	W	...	...	...	...	...	...	14'0	19'8	25'1	30'9	1. 4. 56'85		56'68				1. 5. 0'62	- 5'51													
	41	Piazzi O. 312 <td>W</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>12'9</td> <td>18'1</td> <td>24'3</td> <td>30'2</td> <td>1. 5. 55'78</td> <td></td> <td>55'61</td> <td></td> <td></td> <td></td> <td>1. 5. 59'55</td> <td>- 5'52</td>	W	...	...	...	...	...	...	12'9	18'1	24'3	30'2	1. 5. 55'78		55'61				1. 5. 59'55	- 5'52													
	42	Polaris <td>W</td> <td>4'2</td> <td>16'5</td> <td>30'9</td> <td>41'7</td> <td>53'4</td> <td>14'2</td> <td>27'5</td> <td>38'2</td> <td>50'4</td> <td>1'7</td> <td>1. 22. 3'87</td> <td></td> <td>47'73</td> <td>51'72</td> <td>3'99</td> <td></td> <td>.....</td> <td></td>	W	4'2	16'5	30'9	41'7	53'4	14'2	27'5	38'2	50'4	1'7	1. 22. 3'87		47'73	51'72	3'99																
	43	Piazzi XIII. 133 S.P. <td>W</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>53'1</td> <td>7'7</td> <td>20'1</td> <td>46'5</td> <td>59'9</td> <td>12'1</td> <td>1. 25. 53'53</td> <td></td> <td>55'97</td> <td></td> <td></td> <td></td> <td>13. 25. 59'91</td> <td>+ 3'56</td>	W	...	...	...	...	53'1	7'7	20'1	46'5	59'9	12'1	1. 25. 53'53		55'97				13. 25. 59'91	+ 3'56													
	44	Piazzi I. 110 <td>W</td> <td>55'7</td> <td>58'3</td> <td>0'7</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>21'3</td> <td>24'0</td> <td>26'9</td> <td>1. 29. 11'18</td> <td></td> <td>11'70</td> <td></td> <td></td> <td></td> <td>1. 29. 15'64</td> <td>- 4'21</td>	W	55'7	58'3	0'7	...	...	...	...	21'3	24'0	26'9	1. 29. 11'18		11'70				1. 29. 15'64	- 4'21													
	45	Groombridge 351 <td>W</td> <td>50'2</td> <td>59'0</td> <td>8'2</td> <td>26'0</td> <td>34'2</td> <td>44'1</td> <td>11'2</td> <td>21'1</td> <td>29'6</td> <td>38'9</td> <td>1. 34. 44'39</td> <td></td> <td>43'69</td> <td></td> <td></td> <td></td> <td>1. 34. 47'63</td> <td>- 7'51</td>	W	50'2	59'0	8'2	26'0	34'2	44'1	11'2	21'1	29'6	38'9	1. 34. 44'39		43'69				1. 34. 47'63	- 7'51													
	46	χ Ceti <td>W</td> <td>12'9</td> <td>15'3</td> <td>18'0</td> <td>22'7</td> <td>25'4</td> <td>28'1</td> <td>35'4</td> <td>38'0</td> <td>40'5</td> <td>43'1</td> <td>1. 44. 27'98</td> <td></td> <td>28'73</td> <td></td> <td></td> <td></td> <td>1. 44. 32'67</td> <td>- 4'12</td>	W	12'9	15'3	18'0	22'7	25'4	28'1	35'4	38'0	40'5	43'1	1. 44. 27'98		28'73				1. 44. 32'67	- 4'12													
	47	ι Arietis <td>W</td> <td>24'2</td> <td>26'9</td> <td>29'5</td> <td>34'6</td> <td>37'2</td> <td>39'9</td> <td>47'5</td> <td>50'0</td> <td>52'6</td> <td>55'4</td> <td>1. 51. 39'82</td> <td></td> <td>40'34</td> <td></td> <td></td> <td></td> <td>1. 51. 44'29</td> <td>- 4'21</td>	W	24'2	26'9	29'5	34'6	37'2	39'9	47'5	50'0	52'6	55'4	1. 51. 39'82		40'34				1. 51. 44'29	- 4'21													
	48	112 Piscium <td>W</td> <td>29'1</td> <td>31'8</td> <td>34'2</td> <td>38'8</td> <td>41'4</td> <td>44'5</td> <td>...</td> <td>...</td> <td>...</td> <td>28'6</td> <td>1. 54. 44'09</td> <td></td> <td>44'72</td> <td></td> <td></td> <td></td> <td>1. 54. 48'67</td> <td>- 4'13</td>	W	29'1	31'8	34'2	38'8	41'4	44'5	...	...	...	28'6	1. 54. 44'09		44'72				1. 54. 48'67	- 4'13													
	49	Piazzi I. 230 <td>W</td> <td>...</td> <td>...</td> <td>...</td> <td>8'0</td> <td>13'8</td> <td>19'5</td> <td>36'0</td> <td>...</td> <td>...</td> <td>...</td> <td>1. 57. 19'45</td> <td></td> <td>19'29</td> <td></td> <td></td> <td></td> <td>1. 57. 23'24</td> <td>- 5'95</td>	W	...	...	...	8'0	13'8	19'5	36'0	...	...	...	1. 57. 19'45		19'29				1. 57. 23'24	- 5'95													
	50	Cephei 47 <td>W</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>23'9</td> <td>2'2</td> <td>15'3</td> <td>28'2</td> <td>41'8</td> <td>2. 52. 23'96</td> <td></td> <td>22'67</td> <td></td> <td></td> <td></td> <td>2. 52. 26'62</td> <td>- 10'93</td>	W	...	...	...	...	...	23'9	2'2	15'3	28'2	41'8	2. 52. 23'96		22'67				2. 52. 26'62	- 10'93													
	51	Lalande F. 2589 S.P. <td>W</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>56'1</td> <td>12'6</td> <td>28'3</td> <td>2'0</td> <td>16'1</td> <td>32'4</td> <td>2. 54. 56'21</td> <td></td> <td>59'09</td> <td></td> <td></td> <td></td> <td>14. 55. 3'04</td> <td>+ 7'12</td>	W	...	...	...	...	56'1	12'6	28'3	2'0	16'1	32'4	2. 54. 56'21		59'09				14. 55. 3'04	+ 7'12													
	52	Groombridge 599 <td>W</td> <td>...</td> <td>24'9</td> <td>37'3</td> <td>0'2</td> <td>11'4</td> <td>24'0</td> <td>58'1</td> <td>10'1</td> <td>21'8</td> <td>...</td> <td>3. 0. 23'71</td> <td></td> <td>22'62</td> <td></td> <td></td> <td></td> <td>3. 0. 26'58</td> <td>- 10'22</td>	W	...	24'9	37'3	0'2	11'4	24'0	58'1	10'1	21'8	...	3. 0. 23'71		22'62				3. 0. 26'58	- 10'22													
	53	Groomb. 2213 S.P. <td>W</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>37'0</td> <td>26'3</td> <td>51'4</td> <td>16'9</td> <td>3. 1. 46'07</td> <td></td> <td>50'28</td> <td></td> <td></td> <td></td> <td>15. 1. 54'24</td> <td>+ 12'94</td>	W	...	...	...	...	...	...	37'0	26'3	51'4	16'9	3. 1. 46'07		50'28				15. 1. 54'24	+ 12'94													

4. Observed over wire T with the transit-micrometer set to readings 36° 050, 36° 265, 36° 468, 36° 670, 36° 839, 37° 046, 37° 256, 37° 466, 37° 714, 37° 888.

5, 37, 41, 48. Very faint.

11. Observed over wire T with the transit-micrometer set to readings 35° 825, 35° 662, 35° 595, 35° 476, 35° 420, 35° 250, 35° 190, 35° 054, 35° 006, 34° 877.

18. Observed over wire T with the transit-micrometer set to readings 33° 100, 33° 600, 34° 100, 34° 600, 35° 100, 36° 100, 37° 100, 37° 600, 38° 100.

30. Observed over wire Q with the transit-micrometer set to readings 35° 150, 35° 225, 35° 340, 35° 403, 35° 488, 35° 554, 35° 640, 35° 700, 35° 890, 35° 975.

32, 33, 36. Very faint; foggy.

35, 48. Observed over wires O, P, Q, R, S, T and Z.

37, 41, 43, 44, 49. Observed in dark field with wires illuminated.

42. Observed over wire T with the transit-micrometer set to readings 35° 100, 35° 200, 35° 300, 35° 400, 35° 500, 35° 700, 35° 800, 35° 900, 36° 000, 36° 1

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890°.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Oct. 1	1	Bradley 445	W	52.8	58.3	4.5	16.1	22.1	28.2	45.3	51.3	57.1	3.2	3. 8. 27.98	+ 1.67	27.77			3.93	3. 8. 31.73	- 6.56
	2	64 Arietis	W	...	...	...	...	17.8	20.5	23.3	26.0	42.3	58.2	3. 18. 9.75	(- 0.37)	10.21			[+ 0.20]	3. 18. 14.17	- 4.27
	3	f Tauri	W	52.1	...	57.1	2.1	4.6	7.2	14.9	17.5	...	22.5	3. 25. 7.29	[+ 10.93]	7.84	11.81	3.97	.....	.....	
	4	7 Tauri	W	0.5	3.1	6.0	11.3	14.0	16.9	24.8	27.6	30.1	33.0	3. 28. 16.77		17.23			3. 28. 21.19	- 4.25	
	5	Groombridge 725	W	...	...	...	...	42.9	49.8	...	14.5	21.1	28.0	3. 29. 49.77		49.51			3. 39. 53.47	- 6.91	
	6	Lalande 7019.....	W	...	...	...	0.0	9.0	13.5	18.5	32.0	36.7	...	...	3. 45. 18.37		18.39			3. 45. 22.35	- 5.76
	7	e Persei	W	...	...	...	...	49.4	52.9	2.2	5.5	8.6	12.0	3. 50. 52.74		53.04			3. 50. 57.00	- 4.69	
	8	Groomb.2418 S.P.	W	36.0	44.8	53.5	1.9	27.3	36.1	44.8	1.7	10.3	19.2	5. 2. 27.43		29.17			17. 2. 33.14	+ 2.59	
	9	Rigel	W	...	...	...	...	...	40.9	43.3	45.8	0.9	15.8	5. 9. 30.95		31.68	35.59	3.91	.....	.....	
	10	Piazzi XVII. 61 S.P.	W	...	...	...	...	...	...	44.1	55.2	0.8	6.0	5. 11. 33.38		34.61			17. 11. 38.58	+ 0.36	
	11	Groombridge 948	W	...	...	...	52.8	2.0	11.3	38.6	...	...	...	5. 14. 11.37		10.64			5. 14. 14.61	- 8.77	
	12	κ Orionis	W	...	35.1	37.6	42.5	45.1	47.8	55.1	57.5	0.1	...	5. 42. 47.65		48.39	52.43	4.04	.....	.....	
	13	κ Orionis ... (E&E)	W	5.3	20.1	35.1	50.2	8.2	20.2	35.2	...	...	...	5. 42. 47.50		48.24	52.43	4.19	.....	.....	
	14	Piazzi VI. 157 ...	W	34.9	37.4	40.0	45.1	47.7	50.2	58.0	0.5	3.1	5.8	6. 29. 50.31		50.84			6. 29. 54.82	- 3.38	
	15	Sirius	W	16.2	18.9	21.6	26.5	29.0	31.8	39.5	42.0	44.5	47.2	6. 40. 31.76		32.57			6. 40. 36.56	- 2.50	
Oct. 3	16	Groombridge 365	AC	22.9	26.1	29.8	36.6	40.0	43.5	53.9	57.1	0.6	4.2	21. 58. 43.52	(- 1.02)	43.70			4.13	21. 58. 47.96	- 3.16
	17	i Pegasi	AC	52.5	55.1	58.0	3.5	6.1	8.9	17.0	19.8	22.4	25.2	22. 2. 8.89	[+ 11.12]	9.30	13.59	4.29	[+ 0.14]	.....	.....
	18	γ Aquarii	AC	...	3.9	6.2	11.0	13.7	16.1	23.6	26.0	28.5	...	22. 16. 16.18		16.84	20.97	4.13	.....	.....	
	19	Lalande F. 4175 ..	AC	...	23.3	39.1	13.4	28.2	...	34.8	51.7	10.1	...	22. 23. 46.17		44.04			22. 23. 48.30	- 3.14	
	20	Bradley 1458 S.P.	AC	...	...	...	...	7.8	23.6	39.9	11.2	27.1	42.8	22. 33. 8.09		11.15			10. 33. 15.41	- 2.30	
	21	μ Pegasi	AC	41.8	44.4	...	52.5	55.2	...	6.1	...	11.4	14.1	22. 44. 57.97		58.39	2.67	4.28	.....	.....	
	22	Groomb. 4073 (1st Star)	AC	...	...	...	...	...	...	0.5	8.9	17.6	26.8	23. 23. 34.44		33.63			23. 23. 37.90	- 4.64	
	23	Groomb. 4073 (2nd Star)	AC	...	...	...	...	...	...	0.9	9.5	18.2	27.2	23. 23. 34.94		34.13			23. 23. 38.40	- 4.64	
	24	Groomb. 1803 S.P.	AC	51.6	4.0	16.0	28.6	4.2	16.1	28.0	52.5	4.5	16.2	23. 31. 3.99		6.45			11. 31. 10.72	- 0.38	
	25	β Andromedæ ...	AC	36.0	39.1	42.1	48.0	51.1	54.2	3.1	6.1	9.1	12.1	1. 3. 54.14		54.45	58.79	4.34	4.27	.....	.....
Oct. 4	26	ω Piscium	WB	42.2	44.7	47.4	52.2	54.7	57.4	4.7	7.2	9.9	12.2	23. 53. 57.30		57.88	2.27	4.39	4.25	.....	.....
	27	z Ceti	WB	...	10.9	13.5	18.6	21.3	23.9	31.5	34.1	36.8	...	23. 58. 23.88		24.69	29.11	4.42	[+ 0.15]	.....	.....
	28	α Andromedæ ...	WB	43.0	45.8	48.6	54.3	57.0	59.8	8.1	11.1	14.0	16.9	0. 2. 59.90		0.29	4.69	4.40	4.40	.....	.....
	29	Procyon	H	34.5	37.1	39.5	44.5	47.0	49.5	56.8	59.5	1.6	4.3	7. 33. 49.47	(- 0.41)	50.10	54.37	4.27	4.14	.....	.....
	30	Pollux	H	39.1	42.0	44.8	50.2	53.1	56.0	4.1	7.1	10.0	12.9	7. 38. 55.97	[+ 11.30]	56.41	0.51	4.10	.....	.....	
	31	ο Leonis	B	18.1	20.7	23.2	28.1	30.8	33.4	40.8	43.3	45.9	48.5	9. 35. 33.32		33.91	38.31	4.40	4.38	9. 35. 38.35	- 2.33
	32	ε Leonis	B	38.1	40.9	43.7	49.1	51.9	54.6	2.5	5.3	8.0	10.9	9. 39. 54.54		55.01	59.45	4.44	[+ 0.14]	9. 39. 59.45	- 2.56
	33	μ Leonis	B	32.0	34.8	37.6	43.0	45.9	48.6	56.8	59.6	2.2	5.2	9. 46. 48.61		49.05	53.48	4.43	.....	9. 46. 53.49	- 2.54
	34	η Leonis	B	...	...	...	31.9	34.4	37.1	44.8	47.3	50.0	52.6	10. 1. 37.10		37.64			10. 1. 42.08	- 2.33	
	35	Regulus	B	32.0	34.5	37.2	42.1	44.8	47.4	54.8	57.3	0.0	2.3	10. 2. 47.28		47.85	52.23	4.38	.....	10. 2. 52.29	- 2.23
	36	λ Ursæ Majoris...	B	26.9	30.2	33.9	40.5	44.0	47.6	57.5	1.0	4.4	7.9	10. 10. 47.44		47.69			10. 10. 52.13	- 2.62	
	37	γ' Leonis	B	56.0	58.5	1.2	6.3	9.1	11.8	19.6	22.2	24.9	27.6	10. 14. 11.76		12.26	16.66	4.40	.....	10. 14. 16.70	- 2.32
	38	μ Ursæ Majoris...	B	45.9	49.2	52.5	59.1	2.3	6.0	15.6	19.1	22.3	26.0	10. 16. 5.85		6.13			10. 16. 10.57	- 2.56	
	39	β Ursæ Majoris...	B	4.5	9.1	...	...	27.4	32.0	45.1	49.9	54.4	...	10. 55. 31.86		31.88			10. 55. 36.32	- 2.27	
	40	α Ursæ Majoris...	B	...	...	...	...	...	32.1	37.6	42.9	48.5	...	10. 57. 16.50		16.37			10. 57. 20.81	- 2.18	
	41	ψ Ursæ Majoris...	B	4.4	25.5	...	39.5	42.9	46.6	56.9	...	7.4	28.2	11. 3. 46.49		46.73			11. 3. 51.17	- 2.19	
Oct. 5	42	⊙ 1 L	B	25.6	28.0	30.5	35.5	38.0	40.4	47.9	50.3	52.9	55.5	12. 45. 40.50	+ 1.52	45.76				12. 46. 50.21	
	43	⊙ 2 L	B	34.6	37.1	39.6	44.5	47.0	49.6	57.1	59.5	2.0	4.5	12. 47. 49.59	(- 0.47)					.....	.....
	44	ε Virginis	B	41.5	44.0	46.5	51.5	54.0	56.6	...	...	9.1	11.9	12. 56. 56.62		57.19	1.66	4.47		12. 57. 1.65	- 1.68
	45	Polaris S.P.	B	45.0	52.1	58.0	6.3	22.8	28.1	33.8	47.9	54.0	0.0	13. 21. 28.43		47.19	52.35	5.25		1. 21. 51.56	- 58.50
	46	η Boötis	B	25.0	27.5	30.0	35.4	37.9	40.5	48.2	50.9	53.5	56.1	13. 49. 40.54		41.05	45.54	4.49		13. 49. 45.51	- 1.60
	47	Arcturus	B	35.9	38.5	41.0	46.1	48.9	51.7	59.6	2.0	4.6	7.5	14. 10. 51.62		52.12	56.56	4.44		14. 10. 56.58	- 1.53
	48	Venus 1 L	B	0.4	2.9	...	...	...	15.8	...	...	28.2	31.1	14. 16. 15.70		16.84				14. 16. 21.30	
	49	Venus 2 L	B	...	...	...	6.1	11.1	13.8	...	24.0	26.4	...	...	14. 16. 16.40					.....	.....
	50	δ Ophiuchi	B	35.8	38.1	40.7	45.6	48.1	50.6	58.0	0.5	2.9	5.5	16. 8. 50.62		51.31	55.77	4.46		16. 8. 55.78	- 2.15
	51	ε Ophiuchi	B	...	...	...	...	...	...	55.3	55.9	58.4	0.9	16. 12. 46.05		46.75				16. 12. 51.22	- 2.19

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 13, — 2⁸.72.

2. Very faint; cloudy. Observed over wires U, V, W, X, Y and Z.

8, 19. Very faint.

9, 39, 41, 44, 48, 49. Cloudy.

45. Observed over wire T with the transit-micrometer set to readings 33⁵.870, 33⁵.820, 33⁵.760, 33⁵.698, 33⁵.543, 33⁵.495, 33⁵.460, 33⁵.319, 33⁵.271, 33⁵.230.49. A correction of + 0⁸.06, for defect of illumination, has been applied in forming the concluded transit.

5, 6, 19. Observed in dark field with wires illuminated.

9. Observed over wires V, W, X, Y and Z.

41. Observed over wires N, O, R, S, T, U, X and Y.

MOON D.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o ^r Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Red- uction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
				s	s	s	s	s	s	s	s	s	s									
Oct. 5	1	η Draconis.....	B	58.9	3.9	9.1	19.6	24.9	30.1	...	...	...	4.0	16. 22. 30.12	+ 1.52	29.98			4.38	16. 22. 34.46	+ 0.46	
	2	Antares	B	...	...	...	...	...	...	7.1	9.9	12.8	15.4	16. 22. 58.99	(- 0.47)	59.91	4.28	4.37	[+ 0.14]	16. 23. 4.39	- 2.54	
	3	β Herculis.....	B	25.7	28.2	31.1	36.2	39.0	41.7	49.6	52.1	54.9	57.8	16. 25. 41.67	+ 1.30	42.15				16. 25. 46.63	- 1.73	
	4	α Draconis	B	24.0	30.8	37.8	51.4	58.3	5.5	25.8	32.7	39.5	46.6	16. 28. 5.34		4.91				16. 28. 9.39	+ 1.72	
	5	ζ Herculis	B	...	...	...	12.6	15.5	18.5	27.0	30.0	33.0	36.0	16. 37. 18.50		18.88	23.34	4.46		16. 37. 23.36	- 1.44	
	6	η Herculis	B	57.1	0.3	3.5	9.9	13.0	16.2	25.6	28.9	32.0	35.4	16. 39. 16.24		16.54				16. 39. 21.02	- 1.20	
	7	α Camelopardi S.P....	B	...	...	...	...	43.8	49.9	56.0	8.0	14.1	20.5	16. 43. 43.67		45.11				4. 43. 49.59	- 7.00	
	8	κ Ophiuchi	B	26.7	29.1	31.7	36.6	39.1	41.8	49.1	51.6	54.1	56.7	16. 52. 41.69		42.28	46.77	4.49		16. 52. 46.76	- 2.10	
	9	ϵ Herculis	B	58.0	0.9	3.8	9.5	12.2	15.3	23.9	26.7	29.6	32.6	16. 56. 15.29		15.69	20.12	4.43		16. 56. 20.17	- 1.55	
	10	ϵ Ursæ Minoris...	B	...	...	...	...	...	...	19.8	38.0	56.5	15.4	16. 56. 25.94		23.64				16. 56. 28.12	+ 9.62	
	11	η Ophiuchi	B	6.7	9.1	11.9	16.9	19.5	22.1	29.6	32.2	34.9	37.6	17. 4. 22.09		22.91	27.35	4.44		17. 4. 27.39	- 2.64	
	12	ζ Draconis	B	47.8	53.7	59.9	11.6	17.7	24.0	41.9	47.8	53.9	0.0	17. 8. 23.92		23.63				17. 8. 28.11	+ 0.98	
	13	δ Herculis	B	...	28.8	31.5	36.9	39.6	42.4	50.4	53.1	56.0	...	17. 10. 42.39		42.84				17. 10. 47.32	- 1.79	
	14	π Herculis	B	...	...	9.6	15.9	18.9	22.0	31.1	34.2	...	...	17. 11. 22.00		22.32				17. 11. 26.80	- 1.39	
	15	ω Herculis	B	25.1	28.1	31.1	36.9	39.9	42.8	51.4	54.4	57.2	0.5	17. 16. 42.78		43.15				17. 16. 47.63	- 1.58	
	16	λ Herculis.....	B	12.4	15.1	18.0	23.5	26.1	29.1	37.1	39.9	42.6	45.5	17. 26. 28.97		29.41				17. 26. 33.89	- 1.82	
	17	β Draconis	B	...	...	...	...	...	1.0	13.1	17.0	21.0	25.2	17. 28. 0.98		1.08				17. 28. 5.56	- 0.61	
	18	α Ophiuchi	B	48.3	50.9	53.5	58.4	0.9	3.5	11.1	13.5	16.0	18.8	17. 30. 3.53		4.08	8.56	4.48		17. 30. 8.56	- 2.21	
	19	α Serpentis	B	16.4	18.9	21.5	26.4	29.0	31.6	39.1	41.6	44.1	46.9	17. 35. 31.59		32.36				17. 35. 36.84	- 2.77	
	20	β Ophiuchi	B	2.3	4.9	7.5	12.1	14.7	17.4	24.6	27.1	29.7	32.2	17. 38. 17.29		17.92	22.47	4.45		17. 38. 22.40	- 2.43	
	21	μ Herculis.....	B	3.4	6.0	8.9	14.4	17.4	20.1	...	...	...	...	17. 42. 20.10		20.52	25.06	4.54		17. 42. 25.00	- 1.82	
	22	ξ Draconis	B	...	...	...	30.5	35.0	39.8	53.1	57.5	2.0	6.7	17. 57. 39.64		39.63				17. 51. 44.11	- 0.38	
	23	δ Ursæ Minoris...	B	48.4	53.9	59.5	3.6	16.1	20.0	25.4	32.7	46.0	49.5	18. 5. 28.33		22.27				18. 5. 26.76	+ 23.53	
	24	η Serpentis	B	38.3	40.8	43.3	48.1	50.7	53.3	0.5	3.0	5.5	8.0	18. 15. 53.19		53.88	58.39	4.51		18. 15. 58.37	- 2.76	
	25	η Serpentis (E&E)	B	13.6	28.7	43.5	58.5	13.2	28.0	42.9	...	...	...	18. 15. 53.22		53.91	58.39	4.48		.....		
	26	ϕ Draconis.....	B	...	...	...	...	...	...	39.9	47.7	55.8	41.6	18. 22. 9.52		8.95				18. 22. 13.44	+ 1.54	
	27	α Lyræ	B	2.9	6.0	9.2	15.5	18.6	21.9	31.3	34.5	37.7	40.9	18. 33. 21.90		22.20	26.74	4.54		18. 33. 26.69	- 1.73	
	28	α Lyræ ....(E&E)	B	29.9	49.0	8.0	27.0	46.0	4.9	24.0	...	...	...	18. 33. 21.85		22.15	26.74	4.59		.....		
	29	Groomb. 2719 R...	B	22.2	31.8	40.3	58.2	7.5	16.8	...	...	...	...	18. 48. 16.36		15.81				18. 48. 20.30	+ 1.93	
	30	Groomb. 2719	B	...	...	...	...	...	...	42.8	52.0	0.9	10.2	18. 48. 16.47		15.70				18. 48. 20.19	+ 1.93	
	31	Cephei 51 S.P....	B	13.0	23.3	33.6	44.1	53.5	14.1	24.0	33.8	44.0	54.0	18. 52. 3.74		12.34				6. 52. 16.83	- 31.38	
	32	γ Lyræ	B	...	...	...	54.4	57.4	0.2	9.0	12.0	14.9	18.0	18. 55. 0.34		0.71				18. 55. 5.20	- 2.06	
	33	δ Draconis	B	...	55.0	1.8	14.5	20.9	27.7	46.6	53.1	59.6	...	19. 12. 27.53		27.17				19. 12. 31.66	+ 0.13	
	34	τ Draconis .....R.	B	...	44.8	53.5	11.1	19.4	...	...	...	...	...	19. 17. 27.88		27.38				19. 17. 31.87	+ 1.23	
	35	τ Draconis	B	...	...	...	...	...	...	53.2	1.7	10.8	19.2	19. 17. 28.08		27.38				19. 17. 31.87	+ 1.23	
	36	Polaris	B	25.1	2.9	10.7	32.4	38.8	44.8	54.0	21.5	28.0	34.5	1. 22. 4.67		47.14	52.45	5.31	4.52	1. 21. 51.67	- 58.60	
	37	Groomb. 1992 S.P.	B	4.4	10.9	17.5	24.2	40.1	46.5	52.0	...	...	...	1. 21. 40.52		41.92				13. 21. 46.45	- 0.02	
	38	Piazzi XIII. 109 S.P.	B	...	...	...	...	...	...	4.0	12.0	2.8	53.2	1. 23. 21.56		23.40				13. 23. 27.93	+ 1.24	
	39	Lalande F. 2390...	B	5.9	19.1	33.0	46.1	59.1	...	...	...	...	...	1. 33. 32.64		29.00				1. 33. 33.53	- 16.75	
	40	ν Piscium	B	45.1	47.6	50.1	55.0	57.5	0.0	7.5	10.0	12.4	14.9	1. 36. 0.05		0.68	5.23	4.55		1. 36. 5.21	- 4.19	
	41	Groombridge 371	B	...	...	...	...	...	...	6.9	10.2	13.8	17.4	1. 36. 56.51		56.73				1. 37. 1.26	- 4.75	
	42	Groombridge 373	B	...	...	...	...	...	...	35.9	39.1	42.7	46.4	1. 37. 25.43		25.65				1. 37. 30.18	- 4.75	
	43	Piazzi XIII. 263 S.P.	B	...	...	...	...	0.9	22.6	44.1	25.6	47.4	8.0	1. 45. 1.34		5.24				13. 45. 9.77	+ 8.46	
	44	β Arietis	B	37.1	39.6	42.2	47.6	50.1	52.9	0.6	3.2	6.0	8.7	1. 48. 52.84		53.33	57.85	4.52		1. 48. 57.86	- 4.29	
	45	Lalande F. 2380 S.P.	B	...	...	...	...	44.8	0.0	14.3	44.0	59.4	14.0	1. 49. 44.73		47.62				13. 49. 52.15	+ 5.22	
	46	Sappho	B	...	...	...	...	...	...	34.0	56.6	59.3	1.7	1. 54. 46.34		46.86				1. 54. 51.39		
	47	Piazzi XIII. 306 S.P.	B	...	...	58.7	5.7	26.0	33.1	40.0	53.6	...	...	1. 59. 26.04		27.62				13. 59. 32.15	+ 0.97	
	48	B.D.+52° No. 522	B	...	...	...	15.9	20.0	24.0	37.0	40.9	...	48.9	2. 2. 24.40		24.49				2. 2. 29.02	- 5.21	
	49	Groombridge 457	B	...	...	14.0	22.0	26.0	30.2	42.2	46.2	...	...	2. 2. 30.18		30.27				2. 2. 34.80	- 5.21	
	50	B.D.+63° No. 305	B	25.0	30.2	36.0	47.2	52.9	58.6	15.1	20.9	26.5	32.0	2. 5. 58.52		58.31				2. 6. 2.84	- 6.15	
	51	Bradley 316	B	...	...	...	...	42.4	...	0.5	4.9	...	40.9	2. 11. 47.13		47.13				2. 11. 51.66	- 5.51	
	52	Piazzi II. 36	B	...	...	38.2	47.1	51.6	56.2	9.9	14.0	...	...	2. 11. 56.26		56.26				2. 12. 0.79	- 5.52	
	53	α Ceti	B	...	...	...	...	...	...	11.7	14.1	16.7	19.3	2. 14. 4.38		5.07				2. 14. 9.60	- 4.12	
	54	Piazzi II. 57	B	...	...	...	...	...	...	22.0	24.2	26.9	41.9	2. 14. 12.12		12.81				2. 14. 17.34	- 4.12	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 25 and 28, — 5^m15 and — 5^m15.

1. Observed over wires O, P, Q, R, S, T and Z. 15, 21, 22, 36. Cloudy. 19. Very faint.
 23. Observed over wire O with the transit-micrometer set to readings 33^m47.0, 33^m59.9, 33^m72.0, 33^m84.8, 34^m14.5, 34^m23.0, 34^m35.9, 34^m53.8, 34^m85.4, 34^m95.5.
 26. Observed over wires V, W, X and Y.
 31. Observed over wire T with the transit-micrometer set to readings 36^m6.00, 36^m4.00, 36^m2.00, 36^m0.00, 35^m8.00, 35^m4.00, 35^m2.00, 35^m0.00, 34^m8.00, 34^m6.00.
 36. Observed over wire O with the transit-micrometer set to readings 34^m94.1, 35^m27.1, 35^m33.2, 35^m54.0, 35^m6.00, 35^m63.4, 35^m70.5, 35^m95.0, 36^m0.20, 36^m0.70.
 37, 38. Very faint; cloudy. 38. Observed over wires P, O, N and M.
 39. Observed over wire T with the transit-micrometer set to readings 34^m6.00, 35^m1.00, 35^m6.00, 36^m1.00, 36^m6.00.
 51. Observed over wires S, U, V and Y. 54. Observed over wires V, W, X and Y.

[168] TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at o' Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
1898 Oct. 5	1	12 Trianguli	B	...	...	...	...	...	11.8	14.9	17.5	20.5	2. 22. 3.53	+ 1.52	3.95			4.52	2. 22. 8.48	- 4.47	
	2	Piazzi II. 92	B	...	24.1	27.1	32.9	35.4	38.4	46.9	49.5	52.4	...	2. 22. 38.39	(- 0.47)	38.81		[+ 0.14]	2. 22. 43.34	- 4.47	
	3	Groomb. 2128 S.P.	B	...	...	0.5	12.0	44.1	...	7.5	...	...	...	2. 26. 44.59	+ 11.30	46.87			14. 26. 51.40	+ 3.82	
	4	Groomb. 2140 S.P.	B	37.5	49.2	0.0	11.0	43.4	...	...	...	...	...	2. 31. 43.56		45.84			14. 31. 50.37	+ 3.86	
	5	Bradley 353	B	...	...	...	...	11.1	18.9	41.4	49.4	56.9	4.9	2. 32. 18.92		18.36			2. 32. 22.89	- 7.64	
	6	Oeltz. Arg. (N.) 2970	B	...	...	...	39.9	47.0	55.1	17.9	25.4	32.9	40.9	2. 32. 55.11		54.55			2. 32. 59.08	- 7.63	
	7	Oeltz. Arg. (N.) 3187	B	...	...	8.1	16.9	21.4	25.7	38.3	42.9	...	...	2. 42. 25.64		25.67			2. 42. 30.21	- 5.57	
	8	Oeltz. Arg. (N.) 3195	B	...	...	47.1	56.0	0.2	4.8	17.5	21.9	...	...	2. 43. 4.67		4.70			2. 43. 9.24	- 5.58	
	9	η Persei	B	...	...	50.0	58.6	3.0	7.5	20.5	24.8	...	...	2. 43. 7.49		7.52			2. 43. 12.06	- 5.58	
	10	Groombridge 586	B	34.8	...	42.8	...	...	58.9	...	14.9	...	22.9	2. 49. 58.88		58.98			2. 50. 3.52	- 5.37	
	11	B.D. + 51° No. 658	B	37.9	...	45.9	...	...	2.0	...	17.9	...	25.9	2. 50. 1.94		2.04			2. 50. 6.58	- 5.37	
	12	Lalande F. 2589 S.P.	B	...	...	...	...	55.1	11.5	27.5	59.2	...	...	2. 54. 55.04		58.12			14. 55. 2.66	+ 7.50	
	13	α Ceti	B	34.5	36.9	39.4	44.3	46.9	49.3	56.6	59.1	1.6	4.1	2. 56. 49.31		49.95	54.58	4.63	2. 56. 54.49	- 4.08	
	14	9 Ursæ Minoris...	B	...	...	38.0	46.5	10.4	18.8	26.7	42.5	...	...	3. 0. 10.32		12.10			15. 0. 16.64	+ 2.28	
	15	δ Arietis	B	24.2	26.9	29.5	34.8	37.3	40.0	47.8	50.4	53.1	55.8	3. 5. 40.02		40.52	45.08	4.56	3. 5. 45.06	- 4.29	
	16	Groombridge 628	B	28.0	35.0	42.0	56.0	2.9	10.1	...	...	...	...	3. 10. 10.03		9.58			3. 10. 14.12	- 7.51	
Oct. 7	17	ε Andromedæ ...	WB	...	...	...	56.8	59.8	2.5	10.9	...	...	...	0. 33. 2.55	(- 1.00)	3.00	7.68	4.68	4.68	.....	
	18	Polaris	WB	29.3	41.4	49.2	58.9	7.2	16.9	40.3	48.5	59.8	5.1	1. 22. 11.76	[+ 13.78]	48.29	52.98	4.69	[+ 0.13]	.....	
Oct. 8	19	⊙ 1 L.	AC	24.0	26.6	29.1	34.0	36.5	38.9	46.1	48.9	51.4	54.0	12. 56. 38.99	(- 1.30)	44.44			4.75	12. 57. 49.25	
	20	⊙ 2 L.	AC	33.4	35.9	38.2	43.4	46.0	48.3	55.8	58.2	0.9	3.5	12. 58. 48.40	[+ 12.20]				[+ 0.12]		
	21	α Andromedæ ...	AC	42.6	45.3	48.0	53.8	56.4	59.4	7.9	10.6	13.5	16.2	0. 2. 59.41		59.80	4.70	4.90	4.87	.....	
	22	γ Pegasi	AC	36.0	38.8	41.3	46.2	49.0	51.6	59.0	1.9	4.1	6.8	0. 7. 51.51		52.04	56.84	4.80		.....	
	23	ε Andromedæ ...	AC	45.5	48.1	51.1	56.7	59.5	2.2	10.8	13.6	16.5	19.4	0. 33. 2.38		2.77	7.68	4.91		.....	
	24	Groombridge 119	AC	59.6	3.6	7.8	15.6	19.6	23.8	35.5	39.5	43.4	47.5	0. 35. 23.65		23.67				0. 35. 28.55 - 4.58	
	25	Groomb. 142 (1st Star)	AC	42.0	45.7	49.9	57.5	1.4	5.4	17.0	20.9	24.9	28.9	0. 42. 5.42		5.45				0. 42. 10.33 - 4.62	
	26	75 Piscium	AC	...	51.5	54.0	59.0	1.5	4.1	11.6	14.1	16.6	...	1. 1. 4.10		4.65				1. 1. 9.53 - 4.23	
	27	Groomb. 263 (1st Star)	AC	43.9	...	52.0	59.6	3.4	7.5	...	...	...	...	1. 6. 7.50		7.53				1. 6. 12.41 - 4.81	
	28	Groomb. 263 (2nd Star)	AC	...	...	...	...	...	20.0	23.7	27.6	31.5	...	1. 6. 8.16		8.19				1. 6. 13.07 - 4.81	
	29	Groomb. 1984 S.P.	AC	...	...	...	22.0	34.2	38.3	42.3	50.1	54.1	58.2	1. 18. 34.05		35.20				13. 18. 40.08 - 0.98	
	30	Polaris	AC	29.4	35.5	43.8	53.9	18.1	27.4	37.4	48.1	11.2	18.2	1. 22. 9.10		47.85	53.29	5.44		1. 21. 52.73 - 59.44	
	31	W. B. (2) I. 425.	AC	...	56.5	59.9	6.7	10.0	13.2	23.5	26.9	30.2	...	1. 22. 13.43		13.61				1. 22. 18.49 - 4.67	
	32	Groomb. 2065 S.P.	AC	9.5	17.5	24.0	53.5	1.7	9.3	...	...	...	...	1. 26. 39.25		53.96				13. 26. 58.84 + 34.52	
	33	Groomb. 2027 S.P.	AC	39.1	43.7	47.5	51.9	3.6	7.8	11.9	20.0	23.9	27.9	1. 35. 3.67		4.82				13. 35. 9.70 - 0.85	
	34	Piazzi XIII. 184 S.P.	AC	...	...	46.0	51.8	9.1	15.4	21.1	32.9	...	...	1. 38. 9.26		10.85				13. 38. 15.73 + 0.19	
	35	Piazzi XIII. 200 S.P.	AC	50.2	54.8	59.4	3.8	17.0	21.5	26.1	34.9	39.5	43.8	1. 41. 17.03		18.29				13. 41. 23.17 - 0.59	
	36	Lalande F. 241 ...	AC	44.8	57.6	12.8	28.0	42.0	38.1	52.2	6.6	19.8	34.5	1. 49. 9.64		56.79				1. 49. 1.67 - 42.13	
	37	Sappho	AC	30.0	32.4	35.1	40.0	42.4	45.1	52.8	55.3	58.0	0.6	1. 52. 45.21		45.72				1. 52. 50.60	
	38	o Leonis	B	18.0	20.4	22.9	27.9	30.4	33.0	40.2	42.9	45.5	48.0	9. 35. 32.96		33.53	38.41	4.88	4.94	9. 35. 38.47 - 2.43	
	39	ε Leonis	B	38.0	40.6	43.4	48.8	51.4	54.2	2.1	4.9	7.6	10.5	9. 39. 54.19		54.62	59.56	4.94	[- 0.01]	9. 39. 59.56 - 2.67	
	40	ν Ursæ Majoris...	B	5.1	10.0	14.8	24.2	29.3	34.2	48.5	53.5	58.5	3.5	9. 43. 34.23		34.04				9. 43. 38.98 - 3.36	
	41	μ Leonis	B	31.6	34.3	37.1	42.6	45.4	48.2	56.4	59.1	2.0	4.9	9. 46. 48.20		48.60	53.59	4.99		9. 46. 53.54 - 2.65	
	42	π Leonis	B	24.9	27.3	30.0	34.9	37.2	40.0	47.2	49.8	52.1	54.9	9. 54. 39.87		40.46	45.35	4.89		9. 54. 45.40 - 2.31	
	43	η Leonis	B	21.1	23.8	26.4	31.5	34.1	36.9	44.4	47.0	49.6	52.3	10. 1. 36.75		37.26				10. 1. 42.20 - 2.42	
	44	Regulus	B	31.5	34.1	36.7	41.6	44.2	46.9	54.2	56.9	59.4	2.0	10. 2. 46.79		47.34	52.32	4.98		10. 2. 52.28 - 2.32	
	45	λ Ursæ Majoris ..	B	26.6	30.0	33.4	40.1	43.6	47.1	57.1	0.7	4.0	7.5	10. 10. 47.06		47.24				10. 10. 52.18 - 2.73	
	46	γ ¹ Leonis	B	55.5	58.1	0.8	...	...	...	...	21.9	24.4	27.2	10. 14. 11.35		11.82	16.75	4.93		10. 14. 16.76 - 2.41	
	47	γ ² Leonis	B	...	...	...	6.2	8.9	11.6	19.3	...	...	...	10. 14. 11.55		12.02				10. 14. 16.96 - 2.41	
	48	μ Ursæ Majoris ..	B	45.5	48.9	52.1	58.8	2.1	5.6	15.3	18.7	22.1	25.6	10. 16. 5.52		5.72				10. 16. 10.66 - 2.67	
	49	β Ursæ Majoris ..	B	...	...	13.5	22.2	26.8	31.5	44.8	49.4	...	...	10. 55. 31.46		31.34				10. 55. 36.28 - 2.38	
	50	α Ursæ Majoris ..	B	44.1	49.6	54.9	5.5	10.8	16.1	31.9	37.2	42.6	48.0	10. 57. 16.15		15.85				10. 57. 20.79 - 2.31	
	51	ψ Ursæ Majoris ..	B	25.1	28.5	32.1	39.0	42.5	46.1	56.4	0.0	3.5	7.1	11. 3. 46.08		46.23				11. 3. 51.17 - 2.28	

3. 16, 43. Cloudy.
18. Observed over wire X with the transit-micrometer set to readings 35° 524, 35° 683, 35° 707, 35° 808, 35° 870, 35° 926, 36° 164, 36° 225, 36° 330, 36° 383.
20. Clouds passing.
24, 29, 37. Observed in dark field with wires illuminated.
30. Observed over wire O with the transit-micrometer set to readings 35° 466, 35° 526, 35° 590, 35° 679, 35° 905, 35° 966, 36° 061, 36° 152, 36° 340, 36° 415.
32. Observed over wire T with the transit-micrometer set to readings 36° 000, 35° 900, 35° 800, 35° 400, 35° 300, 35° 200.
36. Observed over wire T with the transit-micrometer set to readings 34° 400, 34° 600, 34° 800, 35° 000, 35° 200, 36° 000, 36° 200, 36° 400, 36° 600, 36° 800.

MO. DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow as of Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Oct. 8	1	δ Leonis.....	B	...	18.0	20.8	26.0	28.6	31.4	39.1	41.9	44.5	...	11. 8. 31.34	+ 1.52	31.81	36.79	4.98	4.94	11. 8. 36.75	- 2.12
	2	ν Ursæ Majoris...	B	30.8	33.6	36.6	42.5	45.5	48.6	57.3	0.2	3.3	6.2	11. 12. 48.51	(- 1.30)	48.83			[- 0.01]	11. 11. 53.77	- 2.17
	3	ι Leonis.....	B	11.6	14.1	16.5	21.6	24.1	26.7	34.2	36.7	39.1	41.9	11. 18. 26.69	[+ 12.20]	27.25				11. 18. 32.19	- 1.99
	4	λ Draconis.....	B	27.9	34.9	42.0	56.4	3.5	11.0	32.2	39.6	46.8	54.0	11. 25. 10.94		10.24				11. 25. 15.18	- 1.61
	5	γ Cephei S.P.....	B	56.2	7.6	18.9	30.0	2.3	14.0	24.8	46.8	58.0	8.9	11. 35. 2.59		5.20				23. 35. 10.14	- 5.25
	6	β Leonis.....	B	26.3	28.9	31.5	36.5	39.1	41.8	49.4	51.9	54.4	57.1	11. 43. 41.73		42.27	47.14	4.87		11. 43. 47.21	- 1.90
	7	γ Ursæ Majoris...	B	...	57.3	1.5	10.0	14.2	18.4	31.0	35.2	39.5	...	11. 48. 18.47		18.42				11. 48. 23.36	- 1.78
	8	β Cassiopeiæ S.P.	B	7.3	12.3	17.1	21.9	36.0	40.5	45.7	54.9	59.7	4.4	12. 3. 35.91		37.24				0. 3. 42.17	- 4.51
	9	δ Ursæ Majoris...	B	45.6	50.1	54.9	4.0	8.5	13.4	26.9	31.9	36.2	41.0	12. 10. 13.32		13.19				12. 10. 18.12	- 1.43
	10	κ Draconis.....	B	14.3	21.9	29.3	43.8	51.1	58.8	20.1	27.7	35.1	42.5	12. 28. 58.57		57.84				12. 29. 2.77	- 0.24
	11	α Cassiopeiæ S.P.	B	...	...	...	...	34.6	39.2	43.9	52.2	56.9	...	12. 34. 34.73		35.98				0. 34. 40.91	- 4.71
	12	ε Ursæ Majoris...	B	56.5	0.9	5.5	14.3	18.7	23.4	36.8	41.3	45.7	50.2	12. 49. 23.40		23.29				12. 49. 28.22	- 1.04
	13	α Canum Venaticum.	B	47.1	50.1	53.4	59.8	2.9	6.1	15.4	18.6	22.0	25.2	12. 51. 6.11		6.36				12. 51. 11.29	- 1.52
	14	ε Virginis.....	B	41.0	43.4	46.0	51.1	53.6	56.1	3.6	6.1	8.7	11.4	12. 56. 56.14		56.70	1.68	4.98		12. 57. 1.63	- 1.71
Oct. 9	15	⊙ 1 L.....	B	4.0	6.7	9.2	14.1	16.5	19.3	26.5	29.1	31.6	34.1	13. 0. 19.15		24.66				13. 1. 29.59	
	16	⊙ 2 L.....	B	13.8	16.1	18.7	23.8	26.1	28.6	36.0	38.5	41.1	43.8	13. 2. 28.69							
	17	ζ ¹ Ursæ Majoris...	B	14.2	18.4	22.9	31.6	36.0	40.5	53.2	57.6	2.0	6.5	13. 19. 40.36						13. 19. 45.22	- 0.83
	18	ζ ² Ursæ Majoris...	B	15.1	19.6	24.0	32.5	36.9	41.4	54.1	58.5	2.9	7.5	13. 19. 41.32		41.25				13. 19. 46.18	- 0.83
	19	Polaris S.P.....	B	34.0	47.1	59.6	9.6	19.1	...	...	...	...	...	13. 21. 23.43		45.85	53.45	7.60		1. 21. 50.78	- 59.60
	20	η Ursæ Majoris...	B	...	...	...	14.6	18.3	22.4	33.9	37.6	41.5	45.5	13. 43. 22.42		22.48				13. 43. 27.41	- 0.91
	21	50 Cassiopeiæ S.P.	B	46.0	53.9	2.0	...	...	...	5.2	13.9	21.5	13. 54. 33.65		35.66					1. 54. 40.59	- 7.46
	22	α Draconis.....	B	54.5	0.1	6.0	17.7	23.4	29.5	46.4	52.2	58.7	4.2	14. 1. 29.36		28.96				14. 1. 33.89	+ 0.39
	23	4 Ursæ Minoris...	B	...	8.0	20.0	43.6	56.0	7.9	43.1	54.9	6.9	...	14. 9. 7.78		6.14				14. 9. 11.07	+ 4.17
	24	Areturus.....	B	35.5	38.0	40.6	45.9	48.4	51.2	59.0	1.5	4.1	6.9	14. 10. 51.15		51.63	56.55	4.92		14. 10. 56.56	- 1.52
	25	ρ Boötis.....	B	...	...	...	5.6	11.1	14.0	17.0	25.6	28.3	...	14. 27. 16.98		17.33	22.21	4.88		14. 27. 22.26	- 1.36
	26	γ Boötis.....	B	...	...	...	42.9	46.0	49.4	58.9	2.0	5.1	8.3	14. 27. 49.37		49.62				14. 27. 54.55	- 1.14
	27	Venus 1 L.....	B	4.4	7.1	9.7	14.8	17.4	20.0	27.5	30.0	32.8	35.4	14. 35. 19.95		21.18				14. 35. 26.11	
	28	Venus 2 L.....	B	5.3	7.8	10.2	15.5	18.1	20.6	28.2	30.9	33.5	36.1	14. 35. 20.72							
	29	ε ¹ Boötis.....	B	6.0	8.9	11.6	17.1	20.0	22.9	31.1	33.9	36.7	39.5	14. 40. 22.81						14. 40. 28.13	- 1.42
	30	θ Ursæ Minoris...	B	12.0	...	...	...	...	21.6	55.8	7.5	...	...	15. 34. 21.56		19.99	28.09	4.89		15. 34. 24.92	+ 5.27
	31	γ Coronæ.....	B	...	4.8	7.5	12.9	15.7	18.5	26.8	29.5	32.2	...	15. 38. 18.54		18.94				15. 38. 23.87	- 1.45
	32	α Serpentis.....	B	...	52.4	55.1	0.0	2.2	5.1	12.1	14.9	17.4	...	15. 39. 4.95		5.56	10.54	4.98		15. 39. 10.49	- 1.87
	33	β Serpentis.....	B	...	6.6	9.1	14.2	16.9	19.6	27.0	29.7	32.2	...	15. 41. 19.46		19.99				15. 41. 24.92	- 1.71
	34	ε Serpentis.....	B	...	21.9	24.3	29.1	31.8	34.3	41.5	44.0	46.5	...	15. 45. 34.23		34.86	39.76	4.90		15. 45. 39.79	- 1.92
	35	ζ Ursæ Minoris...	B	...	...	...	...	25.1	37.1	12.9	24.8	37.1	49.4	15. 47. 37.34		35.70				15. 47. 40.63	+ 5.59
	36	ε Coronæ.....	B	...	...	...	...	10.1	13.1	21.1	24.0	26.7	29.7	15. 53. 12.97		13.36				15. 53. 18.29	- 1.46
	37	ε Ophiuchi.....	B	30.7	33.1	35.6	40.5	42.9	45.5	52.9	55.4	58.0	0.4	16. 12. 45.54		46.26				16. 12. 51.19	- 2.15
	38	τ Herculis.....	B	...	14.4	18.0	25.1	28.8	32.5	43.1	46.8	50.4	...	16. 16. 32.46		32.58				16. 16. 37.51	- 0.70
	39	ξ Coronæ.....	B	...	...	...	...	...	7.3	10.1	13.1	16.1	...	16. 17. 58.74		59.09				16. 18. 4.02	- 1.37
	40	η Ursæ Minoris...	B	23.1	33.3	43.8	3.9	14.0	24.5	54.8	4.9	15.4	25.9	16. 20. 24.51		23.22				16. 20. 28.15	+ 4.45
	41	η Draconis.....	B	...	...	...	...	...	...	45.1	50.2	55.5	1.1	16. 22. 29.64		29.37				16. 22. 34.30	+ 0.61
	42	β Herculis.....	B	25.2	27.9	30.5	35.8	38.5	41.1	48.9	51.6	54.3	57.1	16. 25. 41.13		41.59				16. 25. 46.52	- 1.67
	43	σ Herculis.....	B	20.5	23.9	27.3	34.0	37.3	40.7	50.6	54.0	57.5	0.9	16. 29. 40.72		40.91				16. 29. 45.84	- 0.93
	44	ζ Herculis.....	B	0.5	3.4	6.2	12.1	15.0	18.0	26.6	29.5	32.4	35.5	16. 37. 17.96		18.30	23.27	4.97		16. 37. 23.23	- 1.37
	45	η Herculis.....	B	56.6	59.7	2.9	9.2	12.5	15.8	25.1	28.2	31.5	34.9	16. 39. 15.69		15.93				16. 39. 20.86	- 1.12
	46	ι Ophiuchi.....	B	46.7	49.1	51.6	56.7	59.1	1.8	9.1	11.6	14.1	16.8	16. 49. 1.70		2.27				16. 49. 7.20	- 2.02
	47	κ Ophiuchi.....	B	26.0	28.5	31.1	36.0	38.6	41.2	48.6	51.1	55.6	56.2	16. 52. 41.13		41.71	46.71	5.00		16. 52. 46.64	- 2.04
	48	ε Herculis.....	B	57.5	0.1	3.1	8.9	11.9	14.8	23.3	26.1	29.1	32.1	16. 56. 14.73		15.08	20.05	4.97		16. 56. 20.01	- 1.48
	49	ε Ursæ Minoris...	B	35.7	54.0	12.1	...	...	...	...	37.6	55.6	14.5	16. 56. 25.13		22.26				16. 56. 27.19	+ 10.27
	50	η Ophiuchi.....	B	6.1	8.6	11.3	16.3	18.9	21.6	29.2	31.8	34.1	36.9	17. 4. 21.52		22.36	27.29	4.93		17. 4. 27.29	- 2.58
	51	ζ Draconis.....	B	47.1	53.0	59.2	11.0	17.3	23.4	41.4	47.3	53.4	59.6	17. 8. 23.36		22.91				17. 8. 27.84	+ 1.18
	52	δ Herculis.....	B	...	28.2	31.0	36.3	39.1	42.0	50.0	52.8	55.6	...	17. 10. 41.93		42.35				17. 10. 47.28	- 1.72
	53	π Herculis.....	B	...	...	9.1	15.3	18.2	21.6	30.6	33.7	...	...	17. 11. 21.48		21.75				17. 11. 26.68	- 1.31

11, 20, 21, 30. Cloudy.

19. Observed over wire T with the transit-micrometer set to readings 37° 600, 37° 500, 37° 400, 37° 300, 37° 200.

28. A correction of + 0.06, for defect of illumination, has been applied in forming the concluded transit.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1890.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896°.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					s	s	s		s	h	m	s																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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2, 3, 23, 42, 51, 52. Observed in dark field with wires illuminated.

21. Observed over wire T with the transit-micrometer set to readings 37° 600, 37° 400, 37° 200, 33° 200, 32° 600.

27. Observed over wires Q, P, O, N and M.

46. Observed over wires Z, Y, X, W and V.

52. Observed over wires N, P, Q and R.

9, 30, 41, 43, 44, 46, 49, 53. Cloudy.

31, 32. Observed over wires V, W, X and Y.

49. Observed over wires U, V and Y.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
															Collimation.							
															(Level).							
															[Azimuth].							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h m s	''	s	s	s	h m s	s		
Oct. 9	1	ε Ursæ Maj. S.P..	B	55.4	0.0	4.5	9.2	22.8	27.1	31.3	40.7	44.9	49.4	0.49.22.46	+ 1.52	23.72			4.93	12.49.28.65	- 1.04	
	2	θ Ceti	B	33.2	35.6	38.1	43.1	45.7	48.1	55.6	58.1	0.6	3.3	1.18.48.18	(- 1.30)	48.95	53.67	4.72	[- 0.01]	1.18.53.88	- 4.24	
	3	Groombridge 307	B	53.5	2.1	10.9	...	...	46.6	...	21.3	30.0	39.1	1.20.46.30	[+ 12.20]	45.29				1.20.50.22	- 7.33	
	4	Polaris	B	11.9	22.0	29.7	45.1	53.1	25.1	33.0	46.9	53.5	6.1	1.22.8.64		47.39	53.61	6.22		1.21.52.32	- 59.76	
	5	Oeltz. Arg. (N.) 1507..	B	20.5	28.5	37.0	55.8	4.6	13.5	...	...	...	...	1.21.13.04		12.03				1.21.16.96	- 7.34	
	6	Groomb.1998 S.P.	B	...	...	...	...	...	3.5	11.4	28.0	36.5	...	1.22.54.67		56.77				13.23.1.70	+ 1.23	
	7	Groomb.2003 S.P.	B	...	...	...	...	...	44.0	52.3	8.9	17.4	25.8	1.23.35.57		37.67				13.23.42.60	+ 1.24	
	8	Groombridge 333	B	...	16.0	21.5	32.1	37.7	43.1	59.4	4.8	10.2	...	1.27.43.21		42.88				1.27.47.81	- 5.77	
	9	Groomb.2027 S.P.	B	...	...	...	...	...	3.9	8.1	12.0	20.0	24.1	28.1	1.35.3.87		5.02			13.35.9.95	- 0.85	
	10	Piazzi XIII. 184 S.P.	B	...	...	46.1	51.7	9.3	15.2	21.1	33.1	...	...	1.38.9.30		10.89				13.38.15.82	+ 0.19	
	11	Groomb.2040 S.P.	B	...	...	41.1	46.1	0.8	6.0	11.1	21.0	...	...	1.40.0.92		2.31				13.40.7.24	- 0.29	
	12	Piazzi I. 182	B	0.4	2.9	5.5	10.4	12.9	15.5	22.9	25.8	28.1	30.5	1.44.15.53		16.32				1.44.21.25	- 4.23	
	13	χ Ceti	B	12.1	14.7	17.2	22.1	24.6	27.3	34.7	37.2	39.7	42.3	1.44.27.23		28.02				1.44.32.95	- 4.22	
	14	7 Arietis	B	46.0	48.6	51.3	56.6	59.4	2.1	10.0	12.7	15.5	18.1	1.50.2.07		2.52				1.50.7.45	- 4.39	
	15	Sappho	B	47.5	50.0	52.8	57.8	0.3	3.1	10.6	13.1	15.8	18.5	1.52.2.99		3.50				1.52.8.43	-	
	16	Groombridge 426	B	...	14.5	31.4	2.2	17.8	34.2	...	...	...	...	1.57.33.99		31.61				1.57.36.54	- 12.07	
	17	Piazzi XIII. 306 S.P.	B	...	...	...	5.1	25.7	32.8	39.9	53.6	0.3	7.4	1.59.25.71		27.51				13.59.32.44	+ 1.04	
	18	W.B. (2) I. 1482..	B	23.9	26.2	28.9	34.0	36.5	39.3	46.9	49.5	52.1	54.8	2.3.39.25		39.76				2.3.44.69	- 4.33	
	19	B. D.+63° No. 305	B	24.9	30.2	36.1	...	...	58.2	...	21.3	...	...	2.5.58.53		58.17				2.6.3.10	- 6.26	
	20	Groombridge 480	B	...	...	23.2	31.0	35.4	...	51.2	55.2	...	...	2.9.39.29		39.29				2.9.44.22	- 5.31	
	21	Lalande 4258	B	...	...	...	39.8	44.0	48.2	...	...	9.5	14.0	2.13.48.28		48.22				2.13.53.15	- 5.50	
	22	ξ Ceti	B	...	...	26.5	31.5	34.0	36.6	44.0	46.5	...	...	2.22.36.56		37.16	41.89	4.73		2.22.42.09	- 4.23	
	23	26 Arietis	B	31.8	34.2	37.0	42.1	44.9	47.5	55.2	58.0	0.5	3.1	2.24.47.47		47.95				2.24.52.88	- 4.38	
	24	Bradley 353	B	32.9	40.3	48.2	3.9	11.2	19.1	42.0	49.5	57.1	5.0	2.32.19.03		18.24				2.32.23.17	- 7.81	
	25	Oeltz. Arg. (N.) 2970	B	9.2	16.7	24.7	39.7	47.5	55.2	17.9	25.5	33.0	41.0	2.32.55.17		54.38				2.32.59.31	- 7.81	
	26	Groombridge 543	B	41.1	44.7	48.5	55.9	59.7	3.5	14.1	17.9	21.6	25.5	2.35.3.30		3.40				2.35.8.33	- 5.19	
	27	Oeltz. Arg. (N.) 3187	B	...	...	8.1	16.9	22.1	25.9	38.5	43.3	...	...	2.42.25.89		25.82				2.42.30.75	- 5.69	
	28	Oeltz. Arg. (N.) 3195	B	...	...	47.1	55.5	0.1	4.8	17.6	21.9	...	...	2.43.4.59		4.52				2.43.9.45	- 5.70	
	29	η Persei	B	...	...	50.0	58.6	3.1	7.6	20.5	24.8	...	...	2.43.7.52		7.45				2.43.12.38	- 5.70	
	30	Lalande F. 454 ...	B	...	...	...	...	...	35.9	45.8	55.4	5.1	...	2.45.8.55		7.42				2.45.12.35	- 9.12	
	31	Groombridge 575	B	...	...	44.0	6.5	18.2	30.1	3.9	16.3	...	...	2.51.30.06		28.50				2.51.33.43	- 10.65	
	32	Groombridge 582	B	...	...	22.9	50.8	4.9	19.0	0.9	15.1	...	...	2.55.19.21		17.15				2.55.22.08	- 12.42	
	33	9 Ursæ Min. S.P..	B	...	...	...	...	9.6	17.8	25.8	41.8	50.0	58.0	3.0.9.58		11.62				15.0.16.55	+ 2.45	
	34	10 Ursæ Min. S.P.	B	...	...	54.4	3.1	30.1	39.6	49.0	7.2	...	...	3.5.30.39		32.65				15.5.57.58	+ 3.23	
	35	Lalande F. (2) 194	B	27.0	41.6	56.9	26.6	41.9	56.9	40.5	55.6	11.2	26.8	3.10.56.72		54.49				3.10.59.42	- 13.26	
	36	Groomb.2214 S.P.	B	...	46.1	52.9	59.5	18.7	25.6	32.0	44.9	51.7	...	3.13.18.80		20.50				15.13.25.43	+ 1.42	
	37	14 Ursæ Min. S.P.	B	16.0	25.0	33.9	42.9	9.2	18.1	27.0	44.4	53.7	2.5	3.22.9.14		11.35				15.22.16.28	+ 3.21	
	38	Piazzi XV. 110 S.P..	B	10.7	16.1	21.6	27.0	42.9	48.2	53.8	4.2	9.9	15.4	3.25.42.90		44.36				15.25.49.29	+ 0.67	
	39	B.D.+23° No. 517	B	...	...	29.6	34.9	37.5	40.3	48.1	51.0	...	...	3.39.40.28		40.71				3.39.45.64	- 4.42	
	40	Piazzi III. 147 ...	B	...	...	...	...	...	46.7	54.7	57.4	0.0	2.9	3.40.46.65		47.08				3.40.52.01	- 4.43	
	41	26 Tauri	B	29.1	31.8	...	39.9	42.5	45.1	53.2	...	58.5	1.4	3.42.45.23		45.66				3.42.50.59	- 4.41	
	42	Piazzi III. 161 ...	B	44.3	47.4	49.9	55.2	58.0	0.5	8.6	11.4	14.0	16.9	3.43.0.66		1.09				3.43.6.02	- 4.41	
	43	Piazzi III. 165 ...	B	30.2	33.0	35.8	41.1	43.8	46.5	54.3	57.3	0.0	2.7	3.43.46.51		46.94				3.43.51.87	- 4.41	
	44	α ¹ Tauri	B	15.8	18.2	21.1	26.3	29.0	31.9	39.8	42.2	45.0	47.9	3.58.31.76		32.22	37.06	4.84		3.58.37.15	- 4.35	
	45	α ² Tauri	B	54.0	56.6	59.2	4.6	7.2	10.0	17.7	20.2	23.1	25.9	3.59.9.89		10.35				3.59.15.28	- 4.35	
	46	Piazzi III. 237 ...	B	54.8	57.4	0.0	5.3	8.0	10.5	18.3	21.1	24.0	26.5	3.59.10.63		11.09				3.59.16.02	- 4.34	
	47	γ Tauri	B	35.9	38.5	41.1	46.1	48.7	51.5	58.9	1.5	4.0	6.8	4.13.51.34		51.87	56.55	4.68		4.13.56.80	- 4.17	
Oct. 10	48	⊙ 1 L.	R	41.4	44.0	46.4	51.3	53.8	56.2	3.8	6.2	8.9	11.4	13.3.56.38					8.67	13.5.10.60		
	49	⊙ 2 L.	R	50.9	53.4	56.0	0.9	3.5	6.0	13.4	16.0	18.4	21.0	13.6.5.99					[0.00]			
	50	Polaris S.P.	R	10.1	25.8	40.8	47.0	53.4	0.8	10.1	16.5	22.8	28.5	13.21.24.61		47.03	53.77	6.74		1.21.55.70	- 59.92	
	51	κ Ophiuchi	R	22.5	24.9	27.5	32.5	35.1	37.6	45.0	47.5	50.0	52.6	16.52.37.56		38.14	46.70	8.56		16.52.46.81	- 2.03	
	52	ε Herculis	R	53.6	56.5	59.6	5.2	8.0	11.0	19.5	22.5	25.4	28.2	16.56.10.99		11.34	20.03	8.69		16.56.20.01	- 1.46	

Oct. 10. The Sidereal Standard clock was found to have dropped 4^s. the pendulum having apparently twice failed to complete its oscillation.

1, 19, 20, 21. Cloudy

4. Observed over wire T with the transit-micrometer set to readings 30° 900, 31° 000, 31° 600, 31° 700, 31° 800, 39° 400, 39° 500, 39° 600, 40° 200, 40° 300.

15, 19. Observed in partially illuminated field.

50. Observed over wire V with the transit-micrometer set to readings 35° 974, 35° 833, 35° 708, 35° 653, 35° 596, 35° 547, 35° 452, 35° 396, 35° 344, 35° 291.

MONTH AND DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
Oct. 10	1	β Ophiuchi	R	58.2	0.7	3.2	8.1	10.6	13.1	20.4	22.9	25.4	28.0	17. 38. 13.10	+ 1.52	13.73	22.39	8.66	8.67	17. 38. 22.40	- 2.35	
	2	γ Ophiuchi	R	3.2	5.7	8.1	13.1	15.5	18.1	25.6	28.1	30.7	33.2	18. 2. 18.17	(- 1.30)	18.75	27.44	8.69	[0.00]	18. 2. 27.42	- 2.34	
	3	ϵ Ursæ Minoris...	R	41.6	54.8	4.2	13.0	28.5	39.5	50.0	0.0	10.9	20.2	18. 5. 23.51	[+ 12.20]	16.10				18. 5. 24.77	+ 2.56	
	4	η Serpentis	R	34.1	36.5	39.1	44.0	46.3	48.9	56.1	58.8	1.3	3.9	18. 15. 48.94		49.65	58.31	8.66		18. 15. 58.32	- 2.68	
	5	λ Sagittarii	AC	10.1	12.9	15.6	21.1	23.9	26.5	34.8	37.5	40.2	43.1	18. 21. 26.61		27.57	36.35	8.78	8.84	.....		
	6	ι Aquilæ	R	11.3	13.8	16.2	21.2	23.9	26.2	33.9	36.1	38.7	41.4	18. 29. 26.31		27.07			8.67	18. 29. 35.74	- 2.91	
	7	α Lyræ	AC	58.4	1.7	4.9	11.1	14.1	17.5	26.9	30.0	33.2	36.3	18. 33. 17.46		17.71	26.61	8.90	8.84	.....		
	8	α Aquilæ	R	...	15.7	18.2	23.1	25.6	28.1	...	...	40.5	...	18. 36. 28.15		29.00	37.67	8.67	8.67	18. 36. 37.67	- 2.97	
	9	Cephei 51 S.P. ...	R	15.5	27.1	39.1	48.5	59.4	9.8	22.8	38.1	49.8	59.9	18. 52. 1.24		11.52				6. 52. 20.19	- 33.98	
	10	ϵ Aquilæ	R	32.1	34.5	37.1	42.1	44.7	47.3	55.0	57.6	0.0	2.6	18. 54. 47.34		47.87	56.57	8.70		18. 54. 56.54	- 2.48	
	11	ζ Aquilæ	R	15.9	18.2	20.9	26.0	28.5	31.1	38.5	41.1	43.8	46.2	19. 0. 31.06		31.60	40.30	8.70		19. 0. 40.27	- 2.54	
	12	ω Aquilæ	R	34.1	...	...	44.2	46.9	49.5	56.9	59.6	1.9	4.5	19. 12. 49.41		50.11	58.72	8.61		19. 12. 58.78	- 2.67	
	13	λ Ursæ Minoris...	R	56.2	15.5	26.9	37.3	49.4	2.4	15.7	28.2	42.0	53.1	19. 26. 1.05		34.93				19. 25. 43.60	+ 72.50	
	14	ϵ Sagittarii	R	24.3	27.0	29.6	34.5	37.2	40.0	47.6	50.0	52.6	55.3	19. 34. 39.85		40.71	49.37	8.66		19. 34. 49.38	- 3.49	
	15	Groombridge 1119 S.P.	R	14.9	59.8	14.0	26.0	42.0	56.1	8.4	20.1	34.5	46.8	19. 54. 12.75		38.84				7. 54. 47.51	- 66.43	
	16	ϵ Aquarii	B	41.8	44.1	46.8	51.9	54.2	56.9	4.2	6.8	9.4	12.0	20. 41. 56.85		57.63	6.42	8.79	8.78	.....		
	17	ϵ Aquarii (E&E) ..	B	24.6	39.6	54.6	9.6	24.6	39.7	54.8	...	...	...	20. 41. 56.87		57.65	6.42	8.77		.....		
	18	μ Aquarii	B	41.7	44.1	46.8	51.9	54.1	56.9	4.1	6.7	9.1	11.9	20. 46. 56.77		57.54	6.31	8.77		.....		
	19	μ Aquarii (E&E) ..	B	24.6	39.5	54.5	9.5	24.6	39.6	54.6	...	...	...	20. 46. 56.79		57.56	6.31	8.77		.....		
	20	γ Vulpeculæ ...	R	44.5	47.5	50.1	55.8	58.4	1.3	9.7	12.3	15.3	18.1	20. 50. 1.34		1.73	10.47	8.74	8.67	20. 50. 10.40	- 2.85	
	21	B.D.+46° No. 3148	R	50.2	54.1	57.8	4.9	8.5	12.1	23.1	26.5	30.1	34.0	20. 58. 12.19		12.30				20. 58. 20.97	- 2.39	
	22	Piazzi XX. 443 ...	R	...	...	...	...	...	...	3.4	5.9	8.5	11.1	20. 58. 55.64		56.51				20. 59. 5.18	- 3.95	
	23	Groombridge 3548	R	10.9	27.9	42.9	57.8	10.1	21.5	34.6	48.0	58.1	9.6	21. 20. 10.47		3.06				21. 20. 11.73	+ 6.69	
	24	Lalande 41816 ...	R	35.4	38.2	40.9	45.9	48.2	50.5	58.2	0.9	3.9	6.0	21. 24. 50.85		51.41				21. 25. 0.08	- 3.41	
	25	ξ Aquarii	R	52.2	54.9	57.4	2.2	4.8	7.4	14.7	17.3	19.9	22.2	21. 32. 7.34		8.11	16.77	8.66		21. 32. 16.78	- 3.87	
	26	Groombridge 3560	R	20.8	28.0	35.9	50.8	58.4	6.2	28.5	36.1	44.0	51.6	21. 38. 6.14		5.38				21. 38. 14.05	- 1.83	
	27	Groomb. 3597 (1st Star)	R	...	...	...	16.0	34.9	54.6	50.0	...	...	...	21. 41. 54.28		51.30				21. 41. 59.97	+ 0.07	
	28	Groomb. 3597 (2nd Star)	R	...	...	...	17.4	36.2	55.9	51.1	...	...	...	21. 41. 55.55		52.57				21. 42. 1.24	+ 0.07	
	29	Piazzi IX. 233 S.P.	R	54.9	59.6	4.0	8.2	21.8	26.0	30.6	39.4	44.0	48.2	21. 59. 21.60		22.86				9. 59. 31.53	- 3.15	
	30	Radcliffe 5555 ...	R	49.1	54.0	59.2	9.2	14.1	19.5	34.2	39.5	44.4	50.0	22. 1. 19.40		19.16				22. 1. 27.83	- 2.73	
	31	θ Aquarii	R	0.2	2.8	5.3	10.1	12.7	15.2	22.8	25.1	27.7	30.2	22. 11. 15.25		16.01	24.71	8.70		22. 11. 24.68	- 4.00	
	32	Groombridge 3749	R	12.0	16.0	20.6	29.0	33.1	37.8	50.3	54.6	59.0	3.4	22. 16. 37.64		37.58				22. 16. 46.25	- 3.07	
	33	β Piscis Australis	R	...	...	18.9	24.7	27.7	30.6	39.2	42.1	...	...	22. 25. 30.58		31.64				22. 25. 40.31	- 4.71	
	34	Groombridge 3806	R	20.0	27.1	34.3	48.6	55.6	2.8	24.0	31.1	38.0	45.2	22. 27. 2.78		2.11				22. 27. 10.78	- 3.00	
	35	Carrington 3467..	R	...	...	...	...	...	...	42.2	12.0	42.2	13.8	22. 29. 15.29		10.22				22. 29. 18.89	- 2.64	
	36	μ Pegasi	R	37.2	40.0	42.6	48.0	50.6	53.6	1.5	4.2	6.9	9.9	22. 44. 53.49		53.92	2.62	8.70		22. 45. 2.59	- 3.67	
	37	Oeltz Arg. (N.) 11184 S.P.	R	...	...	...	...	...	49.6	57.1	11.5	19.1	26.5	22. 46. 42.16		44.05				10. 46. 52.72	- 2.53	
	38	Groombridge 3937	R	...	...	18.5	28.0	32.9	38.0	52.0	57.1	...	...	22. 52. 37.85		37.66				22. 52. 46.33	- 3.51	
	39	* N.P.D. 30° 38' ..	R	...	...	...	35.4	40.1	45.1	59.9	4.2	9.2	14.0	22. 52. 45.12		44.93				22. 52. 53.60	- 3.51	
	40	Bradley 3067 ...	R	...	...	...	...	...	24.5	7.6	22.5	37.4	52.2	22. 59. 24.83		22.67				22. 59. 31.34	- 4.28	
	41	Lalande F. 1729 S.P.	R	28.4	46.0	59.8	16.7	29.8	42.1	58.8	13.0	27.6	38.6	23. 2. 54.09		9.76				11. 3. 18.43	+ 4.72	
	42	γ Sculptoris	R	49.9	52.6	55.8	1.4	4.5	7.6	16.0	19.2	22.1	25.3	23. 13. 7.48		8.55				23. 13. 17.22	- 4.75	
	43	Bradley 3147 ...	R	40.9	58.5	10.1	22.2	42.1	54.4	13.6	31.7	44.8	59.8	23. 27. 57.21		49.48				23. 27. 58.15	- 10.74	
	44	γ Pegasi	R	32.0	34.7	37.4	42.5	45.1	47.6	55.1	57.9	0.4	2.9	0. 7. 47.60		48.13	56.84	8.71		0. 7. 56.80	- 4.09	
	45	Bradley 1672 S.P.	R	36.9	54.1	4.4	17.5	32.3	49.1	4.0	25.6	38.0	53.6	0. 13. 37.49		53.72				12. 14. 2.39	+ 23.29	
	46	W. B. (2) 0. 710 ..	R	...	50.2	53.2	58.7	1.5	4.1	12.3	15.1	18.0	...	0. 30. 4.19		4.59				0. 30. 13.26	- 4.19	
	47	β Ceti	R	1.4	4.1	6.5	11.7	...	...	...	...	...	...	0. 38. 17.02		17.90	26.52	8.62		0. 38. 26.57	- 4.39	
	48	δ Piscium	R	57.1	59.6	2.1	6.9	9.6	12.2	19.5	22.0	24.4	26.9	0. 43. 12.07		12.68	21.31	8.63		0. 43. 21.35	- 4.21	
Oct. 12	49	μ Pegasi	AC	36.9	39.6	42.2	47.6	50.2	53.1	1.1	3.9	6.5	9.5	22. 44. 53.10	+ 1.85	53.61	2.61	9.00	9.00	.....		
	50	β Pegasi	AC	...	...	...	...	...	...	46.3	49.1	52.0	54.9	22. 58. 38.12	(+ 1.02)	38.60			[+ 0.04]	22. 58. 47.64	- 3.70	
	51	Groombridge 4008	AC	...	...	9.5	37.0	...	6.1	...	...	16.1	32.3	23. 5. 6.00	[+ 9.00]	5.39				23. 5. 14.43	- 4.39	
	52	Lalande F. 4560..	AC	...	...	28.0	23.0	51.3	19.5	42.1	10.0	...	...	23. 39. 19.53		17.85				23. 39. 26.89	- 8.69	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 17 and 19, — 12^m.80 and — 12^m.80.

- Observed over wire V with the transit-micrometer set to readings 34^m.923, 35^m.263, 35^m.490, 35^m.683, 36^m.056, 36^m.323, 36^m.581, 36^m.815, 37^m.073, 37^m.293.
12. Windy.
- Observed over wire V with the transit-micrometer set to readings 36^m.107, 35^m.853, 35^m.624, 35^m.453, 35^m.225, 35^m.023, 34^m.764, 34^m.460, 34^m.229, 34^m.052.
- Observed over wire T with the transit-micrometer set to readings 34^m.700, 34^m.851, 34^m.940, 35^m.006, 35^m.080, 35^m.177, 35^m.272, 35^m.370, 35^m.457, 35^m.538.
- Observed over wire W with the transit-micrometer set to readings 36^m.444, 36^m.128, 36^m.021, 35^m.932, 35^m.810, 35^m.708, 35^m.609, 35^m.527, 35^m.417, 35^m.314.
- Observed in partially illuminated field.
- Observed over wire Q with the transit-micrometer set to readings 35^m.290, 35^m.731, 36^m.058, 36^m.415, 36^m.720, 36^m.980, 37^m.296, 37^m.621, 37^m.870, 38^m.124.
- Observed in dark field with wires illuminated.
- Observed over wire R with the transit-micrometer set to readings 36^m.417, 36^m.178, 36^m.008, 35^m.807, 35^m.650, 35^m.490, 35^m.279, 35^m.083, 34^m.908, 34^m.762.
- Observed over wire T with the transit-micrometer set to readings 35^m.212, 35^m.612, 35^m.900, 36^m.177, 36^m.649, 36^m.918, 37^m.357, 37^m.768, 38^m.075, 38^m.418.
- 43, 45, 47. Cloudy.
- Observed over wire T with the transit-micrometer set to readings 36^m.341, 36^m.108, 36^m.000, 35^m.851, 35^m.669, 35^m.461, 35^m.272, 35^m.020, 34^m.859, 34^m.683.
- Faint; cloudy.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896°.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation.	(Level).									[Azimuth].
s	s	s	s	s	s	s	s	s	s	h	m	s	#	s	s	s	s	h	m	s	s				
1898 OCT 12	1	Carrington 3684..	AC	7°0	30°5	55°6	40°6	4°3	29°1	39°3	2°5	26°6	49°9	23. 52. 28°89	+ 1°85		27°54			9°00	23. 52. 36°58	- 8°83			
	2	2 Ceti	AC	3°9	6°2	8°9	14°1	16°5	19°2	27°0	29°8	32°1	34°9	23. 58. 19°30	(+ 1°02)		20°05	29°11	9°06	[+ 0°04]	.....				
	3	Groombridge 4225	AC	...	...	...	37°8	44°5	51°4	11°1	18°0	24°5	31°4	23. 59. 51°36	[+ 9°00]		51°41				0. 0. 0°45	- 4°89			
	4	Bradley 1672 S.P.	AC	55°6	1°2	7°1	13°2	34°0	41°1	46°9	55°1	...	...	0. 13. 41°57			48°60			9°04	12. 13. 57°64	+ 23°05			
	5	Groomb. 1878 S.P.	AC	35°7	40°6	45°5	50°6	4°2	9°1	...	...	...	...	0. 17. 4°31			5°10				12. 17. 14°14	- 1°35			
	6	*N.P.D. 31° 18' S.P.	AC	42°2	47°2	52°2	56°7	10°9	16°1	...	...	...	...	0. 17. 10°91			11°70				12. 17. 20°74	- 1°35			
	7	Oeltz. Arg. (N.) 425..	AC	38°0	42°0	45°9	53°2	57°1	...	...	...	...	...	0. 25. 1°01			1°34				0. 25. 10°38	- 4°45			
	8	Groombridge 109	AC	10°0	14°0	18°1	25°9	29°2	34°1	45°4	49°4	53°2	57°1	0. 32. 33°70			34°01				0. 32. 43°05	- 4°55			
	9	Groombridge 143	AC	15°2	...	38°0	0°4	12°1	22°6	56°5	8°0	...	31°9	0. 43. 23°25			22°90				0. 43. 31°94	- 7°53			
	10	20 Ceti	AC	...	...	...	...	43°5	45°9	48°2	50°8	5°6	20°3	0. 47. 36°03			36°67	45°74	9°07		.....				
	11	Groombridge 189	AC	50°8	55°9	0°6	10°6	15°2	20°2	35°1	40°0	44°6	50°0	0. 51. 20°37			20°57				0. 51. 29°61	- 5°12			
	12	Lalande F. 2196 S.P.	AC	...	40°3	50°9	0°6	31°1	41°1	51°4	11°9	22°1	...	0. 55. 30°98			32°26				12. 55. 41°30	+ 1°48			
	13	Oeltz. Arg. (N.) 1049	AC	48°2	52°0	55°8	3°1	6°5	10°1	20°9	24°3	28°1	32°0	0. 58. 10°15			10°50				0. 58. 19°54	- 4°66			
	14	Groomb. 263 (1st Star)	AC	40°0	43°4	47°6	...	...	...	...	18°5	22°4	26°4	1. 6. 3°09			3°41				1. 6. 12°45	- 4°85			
	15	Groomb. 263 (2nd Star)	AC	...	...	...	56°0	59°8	3°8	15°2	...	...	...	1. 6. 3°78			4°10				1. 6. 13°14	- 4°85			
	16	θ Ceti	AC	29°0	31°5	34°0	39°0	41°4	44°0	51°3	54°0	56°4	59°1	1. 18. 44°01			44°68	53°70	9°02		.....				
	17	Polaris	AC	4°1	12°0	20°6	28°4	1°6	9°3	22°0	31°5	58°8	8°0	1. 21. 54°09			45°50	54°40	8°90		.....				
	18	Groomb. 2065 S.P.	AC	39°6	55°5	11°0	5°4	21°2	36°9	...	...	...	...	1. 26. 38°27			44°67				13. 26. 53°71	+ 35°22			
	19	Groombridge 369	AC	19°0	22°6	26°0	34°0	37°6	41°2	52°1	56°0	59°5	3°5	1. 36. 41°21			41°54				1. 36. 50°58	- 4°97			
	20	Oeltz. Arg. (N.) 1902-3	AC	...	...	...	...	20°2	24°0	34°9	38°4	42°2	46°1	1. 37. 23°92			24°25				1. 37. 33°29	- 4°97			
	21	Regulus	B	27°8	30°1	32°7	37°8	40°1	42°9	50°3	52°9	55°4	58°0	10. 2. 42°84			43°40	52°42	9°02	9°01	.....				
	22	λ Ursæ Majoris...	B	22°5	26°0	29°4	36°1	39°5	43°1	53°1	56°3	0°0	3°6	10. 10. 43°01			43°38			[+ 0°02]	10. 10. 52°40	- 2°85			
	23	γ' Leonis	B	51°5	54°2	56°9	2°0	4°7	7°2	15°1	17°8	20°4	23°1	10. 14. 7°33			7°85	16°85	9°00		.....				
	24	μ Ursæ Majoris...	B	41°6	44°6	48°1	54°7	58°0	1°5	11°3	14°5	18°0	21°5	10. 16. 1°43			1°82				10. 16. 10°84	- 2°79			
	25	β Leonis Minoris	B	8°0	26°8	29°9	32°9	...	...	...	...	...	...	10. 21. 45°35			45°76				10. 21. 54°78	- 2°66			
	26	β Ursæ Majoris...	B	0°1	4°5	9°1	18°1	22°9	27°2	40°7	45°3	49°9	54°5	10. 55. 27°30			27°56				10. 55. 36°58	- 2°51			
	27	α Ursæ Majoris...	B	40°0	45°3	50°6	1°3	6°6	12°0	27°9	33°1	38°4	44°0	10. 57. 12°00			12°18				10. 57. 21°20	- 2°45			
Oct. 13	28	Groombridge 10..	B	...	...	...	...	34°6	52°2	58°1	4°1	...	0. 6. 34°60			34°72			9°03	0. 6. 43°75	- 4°81				
	29	ι Ceti	B	47°4	49°8	52°1	57°1	59°6	2°1	9°8	12°1	14°6	17°3	0. 14. 2°23			2°91	11°96	9°05		.....				
	30	75 Ursæ Maj. S.P.	B	...	39°1	44°5	49°1	3°5	8°3	...	...	...	...	0. 25. 3°44			4°25				12. 25. 13°28	- 1°23			
	31	7 Draconis S.P....	B	53°0	...	...	...	9°5	16°1	22°6	...	...	27°1	0. 43. 9°68			10°62				12. 43. 19°65	- 0°39			
	32	δ Leonis	CD	...	...	16°9	22°0	24°7	27°5	35°2	37°9	40°6	43°3	11. 8. 27°42	(- 0°00)		27°87	36°89	9°02	8°96	.....				
	33	β Leonis	CD	22°4	25°0	27°7	32°7	35°1	37°9	45°4	48°0	50°4	53°2	11. 43. 37°82			38°31	47°22	8°91	[+ 0°03]	.....				
Oct. 14	34	⊙ 1 L	CD	29°4	...	34°4	39°4	42°0	44°5	52°0	54°5	...	59°6	13. 18. 44°52			50°26				13. 19. 59°24				
	35	⊙ 2 L	CD	...	...	...	49°5	52°1	54°8	...	4°6	7°2	9°8	13. 20. 54°71			32°93				14. 59. 42°35				
	36	Venus 1 L	CD	...	...	...	...	...	...	39°9	42°5	45°1	47°8	14. 59. 32°22			45°40	54°60	9°20		.....				
	37	Polaris S.P	WB	56°1	2°3	12°0	16°9	27°1	32°0	46°1	58°1	9°7	19°6	13. 21. 31°48	(- 0°80)		45°40				.....				
Oct. 15	38	⊙ 1 L	WB	12°6	15°1	17°6	22°6	25°1	27°8	35°1	37°9	40°2	42°9	13. 22. 27°73			33°51				.....				
	39	⊙ 2 L	WB	22°9	25°5	28°0	33°1	35°5	38°1	45°5	48°0	50°5	53°1	13. 24. 38°06			33°51				.....				
Oct. 16	40	ψ Ursæ Majoris...	B	21°1	24°5	28°1	35°1	38°6	42°1	52°5	56°1	59°6	3°1	11. 3. 42°13	[+ 10°44]		42°33	36°95	9°18	9°14	11. 3. 51°50	- 2°47			
	41	δ Leonis	B	11°5	14°0	16°7	22°0	24°5	27°5	35°1	37°8	40°4	43°3	11. 8. 27°32			27°77			[+ 0°06]	.....				
	42	Polaris S.P.	B	36°0	44°6	51°3	3°0	8°8	17°6	59°8	...	...	...	13. 21. 28°60			45°36	54°54	9°18		.....				
Oct. 17	43	γ Ursæ Minoris...	B	53°5	1°4	9°8	25°8	33°6	42°1	5°9	14°0	21°9	30°5	15. 20. 41°97			41°40				15. 20. 50°58	+ 2°92			
	44	α Coronæ	B	18°9	35°6	...	...	...	...	...	...	...	...	15. 30. 8°86			9°26	18°41	9°15		.....				
Oct. 18	45	B. F. 3183	R	52°0	54°6	57°3	2°1	4°5	7°0	14°3	16°9	19°5	22°0	23. 10. 7°06	(+ 0°04)		7°64			9°18	23. 10. 16°78	- 4°07			
	46	κ Piscium	R	15°6	18°0	20°5	25°4	27°9	30°3	37°8	40°1	42°6	45°1	23. 21. 30°37	[+ 8°47]		30°93	40°07	9°14	[- 0°04]	.....				
	47	ι ι Piscium	R	46°2	48°7	51°1	56°0	58°5	1°0	8°2	10°9	13°4	16°0	23. 24. 1°04			1°61				23. 24. 10°75	- 4°08			
	48	ι Piscium	R	15°6	18°0	20°5	25°4	27°9	30°3	37°8	40°2	42°8	45°2	23. 34. 30°41			30°94	40°04	9°10		.....				

Correction for passage of Semidiameter, No. 36, + 0°8.44.

1, 5, 6, 7, 8, 13, 14, 15, 18, 19, 20. Observed in dark field with wires illuminated.

4. Observed over wire U with the transit-micrometer set to readings 36°861, 36°805, 36°725, 36°653, 36°405, 36°324, 36°246, 36°150.

5, 6, 11. Faint.

10. Observed over wires U, V, W, X, Y and Z.

17. Observed over wire O with the transit-micrometer set to readings 35°385, 35°444, 35°523, 35°601, 35°873, 35°955, 36°055, 36°144, 36°382, 36°441.

18. Observed over wire T with the transit-micrometer set to readings 36°400, 36°200, 36°000, 35°200, 35°000, 34°800.

25. Observed over wires N, O, P and Q.

25, 28, 29, 30, 31, 44. Cloudy.

31. Observed over wires Y, T, S, R and N.

36. Very faint; tremulous.

37. Observed over wire P with the transit-micrometer set to readings 35°664, 35°613, 35°544, 35°460, 35°387, 35°335, 35°226, 35°118, 35°004, 34°955.

38, 39. Kept for diameter only, no determination of clock error having been made within 24^h of the observation.

42. Observed over wire T with the transit-micrometer set to readings 36°584, 36°500, 36°457, 36°350, 36°310, 36°224, 35°318.

44. Observed over wires M and N.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock apparent- ly Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Red- uction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h	m	s	"	s	s	s	s	h	m	s	s	
1896 OCTOBER	Oct. 18	1	D i L	R	13.4	16.0	18.6	23.8	26.2	28.9	36.2	38.7	41.1	43.9	23. 39. 28.72	+ 1.85	29.28			9.18	23. 40. 39.40	
	2	25 Piscium	R	24.7	27.1	29.9	34.5	36.9	39.5	46.9	49.4	52.0	54.4	23. 47. 39.57	(+ 0.04)	40.12			[- 0.04]	23. 47. 49.26	- 4.11	
	3	ω Piscium	R	37.6	40.1	42.6	47.6	50.1	52.5	0.0	2.3	4.8	7.5	23. 53. 52.55	[+ 8.47]	53.07				.....		
	4	2 Ceti	C	...	...	...	...	...	...	26.5	29.2	31.9	34.5	23. 58. 18.92		19.60	29.10	9.19	9.49	.....		
	5	36 Piscium	R	52.8	55.2	58.0	2.9	5.4	8.0	15.2	17.8	20.1	22.7	0. 11. 7.85		8.36			9.14	0. 11. 17.50	- 4.14	
	6	Groomb. 1889 S.P.	C	...	...	...	...	...	...	26.4	49.4	40.0	6.0	30.9	0. 19. 1.92		4.60			9.45	12. 19. 14.05	+ 4.78
	7	Lalande 799	C	45.3	49.8	55.6	4.7	8.5	14.0	28.1	33.0	38.2	43.3	0. 28. 14.12		14.22				0. 28. 23.67	- 4.80	
	8	Groombridge 135	C	22.9	27.6	32.0	40.0	44.3	48.5	1.3	5.9	10.0	14.5	0. 39. 48.76		48.92				0. 39. 58.37	- 4.75	
	9	Groombridge 189	C	...	...	0.9	10.5	15.4	20.8	35.1	40.0	...	...	0. 51. 20.55		20.64				0. 51. 30.09	- 5.14	
	10	Groomb. 2006 S.P.	C	29.1	43.8	56.9	6.1	21.8	32.4	41.9	52.1	1.9	14.6	1. 4. 17.73		25.41				13. 4. 34.86	+ 33.19	
	11	Polaris	C	17.5	58.4	12.0	23.0	42.1	19.3	44.1	8.2	22.0	32.8	1. 21. 55.09		45.09	54.47	9.38		.....		
	12	η Piscium	C	34.1	36.5	39.1	44.3	46.9	49.2	57.1	59.8	2.2	5.0	1. 25. 49.46		49.94	59.33	9.39		.....		
	13	Carrington 2037 S.P.	C	...	...	...	...	...	...	2.1	19.0	1.6	20.9	43.9	1. 31. 40.07		42.35				13. 31. 51.80	+ 7.88
	Oct. 20	14	α Lyrae	AC	58.0	1.1	4.2	10.5	13.8	16.9	26.1	29.5	32.5	36.0	18. 33. 16.91	+ 2.18	17.31	26.37	9.06	9.07	18. 33. 26.33	- 1.36
	15	Cephei 51 S.P.	AC	34.1	39.9	46.0	52.1	16.2	22.2	26.9	33.4	52.1	57.5	18. 52. 10.81	(+ 0.27)	16.60			[- 0.06]	6. 52. 25.62	- 39.40	
	16	ω Aquilæ	AC	33.9	36.2	38.8	43.9	46.2	48.9	56.2	58.9	1.5	4.0	19. 12. 48.89	[+ 10.02]	49.49	58.56	9.07		19. 12. 58.51	- 2.51	
	17	δ Aquilæ	R	53.6	56.1	58.6	3.4	6.0	8.5	...	...	...	...	19. 20. 8.47		9.11	18.02	8.91		19. 20. 18.13	- 2.77	
	18	α Vulpeculæ	AC	...	1.6	4.3	9.9	12.2	15.2	23.4	...	...	...	31.7	19. 24. 15.24		15.75	24.83	9.08		19. 24. 24.77	- 2.19
	19	λ Ursæ Minoris	AC	31.5	24.0	32.6	42.5	55.0	...	...	...	...	...	...	19. 25. 36.71		22.76				19. 25. 31.78	+ 87.16
	20	α Aquilæ	R	...	2.3	2.5	3.0	3.7	3.3	3.5	...	...	...	...	19. 45. 35.74		36.34	45.29	8.95		19. 45. 45.36	- 2.79
	21	Groomb. 1119 S.P.	AC	23.3	30.0	37.9	44.5	37.9	48.3	56.1	8.3	28.0	37.6	19. 54. 38.58		52.96				7. 55. 1.98	- 80.33	
	22	α Pegasi	AC	13.8	16.0	18.6	23.8	26.1	28.9	36.5	39.1	41.8	44.1	22. 59. 28.91		29.49	38.53	9.04		22. 59. 38.50	- 3.77	
	23	γ Piscium	AC	...	28.4	30.9	35.9	38.3	...	...	...	...	...	...	23. 11. 40.83		41.49	50.38	8.89		23. 11. 50.50	- 4.00
	24	γ Piscium (E&E)	AC	17.2	32.0	...	...	...	...	46.2	...	...	...	...	23. 11. 40.58		41.24	50.38	9.14			
	25	Bradley 3147	AC	43.9	51.1	1.2	12.0	55.0	0.9	8.1	16.2	...	...	...	23. 27. 52.59		48.63				23. 27. 57.64	- 8.81
	26	α Andromedæ	AC	38.1	40.9	43.8	49.4	52.2	55.1	3.5	6.2	9.1	12.0	0. 2. 55.07		55.56	4.69	9.13	9.01	0. 3. 4.57	- 4.07	
27	Bradley 1656 S.P.	AC	44.5	50.5	56.9	3.8	31.4	38.8	46.2	52.5	...	...	...	0. 13. 24.79		30.24				12. 13. 39.25	+ 10.69	
28	Oeltz (Arg.) N.281	AC	...	...	...	29.1	33.0	36.9	48.5	52.7	56.1	0.6	0. 17. 37.01		37.29				0. 17. 46.30	- 4.39		
29	Groombridge 80.	AC	58.8	...	...	...	19.1	22.9	35.5	39.6	43.6	48.0	0. 26. 23.21		23.44				0. 26. 32.45	- 4.55		
30	β Andromedæ	AC	...	...	...	43.4	46.3	49.5	58.4	...	...	...	...	1. 3. 49.46		49.89	58.93	9.04		1. 3. 58.90	- 4.50	
31	D i L	AC	59.8	2.2	4.9	10.0	12.7	15.2	22.8	25.4	28.0	30.7	1. 7. 15.21		15.81				1. 8. 26.92			
32	Polaris	AC	55.5	4.2	20.6	26.7	46.9	54.1	11.1	21.4	43.7	52.8	1. 21. 55.86		44.53	54.49	9.96		1. 21. 53.54	- 60.64		
33	Polaris S.P.	B	42.8	51.2	57.9	29.6	35.8	43.8	9.6	18.2	29.9	35.2	13. 20. 57.82		10.21	54.53	44.32	43.54 [+ 0.24]	1. 21. 53.88	- 60.68		
	Oct. 21	34	ε Boötis	B	27.1	30.0	32.7	38.2	41.1	43.9	52.1	54.9	57.8	0.5	14. 39. 43.87		44.35	28.06	43.71		14. 40. 28.04	- 1.39
	35	β Ursæ Minoris	B	17.7	26.9	36.2	54.6	3.9	13.6	40.9	50.1	59.7	9.2	14. 50. 13.42		13.05				14. 50. 56.74	+ 3.58	
	36	β Boötis	B	...	...	...	...	...	...	28.1	31.4	34.7	38.1	14. 57. 18.49		18.86				14. 58. 2.55	- 0.93	
	37	δ Boötis	B	17.6	20.5	23.8	29.5	32.4	35.6	44.2	47.2	50.2	53.4	15. 10. 35.48		35.91				15. 11. 19.60	- 1.17	
	38	γ Ursæ Minoris	B	...	...	...	...	...	...	38.7	47.4	55.5	43.7	15. 20. 7.02		6.79				15. 20. 50.48	+ 3.05	
	39	α Coronæ	B	17.5	20.2	23.0	...	...	...	34.1	...	45.2	48.0	15. 29. 34.12		34.61	18.39	43.78		15. 30. 18.30	- 1.36	
	40	Venus 1 L.	B	30.0	32.4	35.1	40.2	43.1	45.8	53.5	56.1	58.7	1.5	15. 33. 45.68		46.93				15. 34. 30.63		
	41	Venus 2 L.	B	30.7	33.1	35.9	41.0	43.9	46.3	54.2	56.9	59.6	2.3	15. 33. 46.51								
	42	ζ Herculis	B	21.5	24.2	27.2	...	...	...	...	50.5	53.4	56.4	16. 36. 38.90		39.35	23.10	43.75		16. 37. 23.06	- 1.20	
	43	η Herculis	B	17.4	20.5	23.8	30.0	33.3	36.5	46.0	49.1	52.4	55.7	16. 38. 36.52		36.91				16. 39. 20.62	- 0.91	
	44	α Lyrae	B	23.1	26.2	29.6	35.8	38.9	42.1	51.5	54.7	58.0	1.2	18. 32. 42.16		42.56	26.35	43.79		18. 33. 26.29	- 1.34	
	45	α Cygni	B	50.1	53.5	56.9	4.0	7.5	11.1	21.3	24.9	28.5	32.0	20. 37. 11.03		11.38				20. 37. 55.13	- 1.98	
	46	ε Cygni	B	0.8	...	6.6	12.9	15.6	18.8	...	30.2	33.4	36.6	20. 41. 18.66		19.10				20. 42. 2.85	- 2.45	
47	Piazzi XX. 465	B	...	0.1	3.7	...	13.5	16.9	26.6	29.9	33.2	36.5	20. 59. 16.82		17.19				21. 0. 0.94	- 2.34		
48	ζ Cygni	B	32.0	34.7	37.7	43.3	46.1	49.1	57.5	0.4	3.2	6.0	21. 7. 49.04		49.51	33.31	43.80		21. 8. 33.26	- 2.74		
49	τ Cygni	B	38.0	41.0	44.1	50.4	53.5	56.8	6.0	9.1	12.2	15.4	21. 9. 56.70		57.10				21. 10. 40.85	- 2.56		
50	σ Cygni	B	19.1	22.1	25.5	31.7	34.9	38.1	47.5	50.8	54.0	57.3	21. 12. 38.15		38.55				21. 13. 22.30	- 2.53		
51	α Cephei	B	...	...	...	12.9	18.0	23.5	39.2	44.5	49.8	55.4	21. 15. 23.54		23.63				21. 16. 7.38	- 1.56		
52	Lalande 41596	B	...	55.4	58.2	3.5	6.1	...	17.2	19.8	22.5	...	21. 19. 9.02		9.89				21. 19. 53.64	- 4.07		

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 24, — 21.13.
Corrections for passage of Semidiameter, Nos. 1 and 31, + 60.96 and + 62.08.

October 20th 22nd. The Sidereal Standard Clock was found to have stopped and was re-started.

1, 31. Correction to R.A. on true meridian, + 0.02.

10. Observed over wire Q with the transit-micrometer set to readings 36.407, 36.239, 36.051, 35.911, 35.710, 35.588, 35.481, 35.362, 35.225, 35.042.

11. Observed over wire T with the transit-micrometer set to readings 32.620, 33.009, 33.143, 33.211, 33.404, 34.236, 34.470, 34.670, 34.771, 34.870.

15. Observed over wire W with the transit-micrometer set to readings 36.091, 35.967, 35.846, 35.739, 35.270, 35.146, 35.042, 34.901, 34.545, 34.445.

18. Very faint.

19. Observed over wire I with the transit-micrometer set to readings 38.165, 38.506, 38.505, 38.650, 38.735.

21. Observed over wire R with the transit-micrometer set to readings 35.933, 35.884, 35.820, 35.765, 35.381, 35.300, 35.245, 35.153, 34.995, 34.926.

25. Observed over wire R with the transit-micrometer set to readings 34.680, 34.816, 35.070, 35.305, 39.033, 39.190, 39.352, 39.534.

27. Observed over wire V with the transit-micrometer set to readings 36.292, 36.171, 36.032, 35.897, 35.304, 35.137, 34.995, 34.876.

32. Observed over wire R with the transit-micrometer set to readings 34.998, 35.088, 35.211, 35.251, 35.433, 35.504, 35.646, 35.732, 35.937, 36.020.

33. Observed over wire X with the transit-micrometer set to readings 41.790, 41.719, 41.666, 41.380, 41.320, 41.240, 41.038, 40.955, 40.868, 40.819.

38. Observed over wires V, W, X and Y.

41. A correction of + 0.08, for defect of illumination, has been applied in forming the concluded transit.

47. Observed in dark field with wires illuminated.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					

1988	Oct. 21	1	β Aquarii	B	9.4	11.9	14.2	19.1	21.7	24.1	31.6	34.1	36.7	39.3	21.25.24.26	+ 2.18	24.99	8.66	43.67	43.54	21.26.8.74	- 3.64	
		2	β Cephei	B	...	...	4.9	19.3	26.5	34.0	55.2	2.7	...	...	21.26.33.91	(+ 0.27)	33.77			[+ 0.24]	21.27.17.52	- 1.04	
		3	β Cephei	B	...	...	7.4	21.7	29.0	36.5	58.0	5.2	...	...	21.26.36.44	[+ 10.02]	36.30				21.27.20.05	- 1.04	
		4	γ Capricorni	B	23.8	26.1	28.8	34.0	36.5	39.2	46.9	49.5	52.0	54.7	21.33.39.19		40.00				21.34.23.76	- 3.99	
		5	κ Pegasi	R.	25.9	42.1	58.7	1.4	4.1	...	...	...	...	...	21.39.15.00		15.47				21.39.59.23	- 3.08	
		6	κ Pegasi	B	...	...	...	...	...	...	28.5	31.2	47.7	4.0	21.39.14.95		15.46				21.39.59.22	- 3.08	
		7	16 Pegasi	R.	49.4	5.8	22.2	24.8	27.8	...	...	...	...	...	21.47.38.62		39.09	22.86	43.77		21.48.22.85	- 3.14	
		8	16 Pegasi	B	...	...	...	...	...	49.6	52.2	55.1	11.3	28.0	21.47.38.70		39.21	22.86	43.65		21.48.22.97	- 3.14	
		9	Radcliffe 5555 ...	B	...	...	...	33.5	38.6	43.8	58.8	4.0	8.9	14.1	22.0.43.77		43.89				22.1.27.65	- 2.40	
		10	Groombridge 3682	B	...	...	...	35.6	40.5	45.8	0.8	5.9	11.0	16.1	22.0.45.78		45.90				22.1.29.66	- 2.40	
		11	Bradley 2934 ..R.	B	44.0	52.1	59.8	15.6	23.6	...	...	...	...	...	22.7.31.26		30.95				22.8.14.71	- 1.96	
		12	Bradley 2934	B	...	...	...	...	...	...	54.3	2.0	10.2	18.1	22.7.31.15		30.94				22.8.14.70	- 1.96	
		13	Bradley 2993	B	4.6	19.9	36.1	52.5	8.8	25.0	40.9	...	...	...	22.20.52.54		49.75				22.21.33.51	+ 0.58	
		14	Oeltz. Arg. (N.) 24224	B	...	...	...	...	...	...	21.8	29.6	37.6	46.0	22.24.58.53		58.31				22.25.42.07	- 2.44	
		15	Groombridge 3813	B	...	...	...	...	...	22.3	52.0	2.0	12.1	22.6	22.26.22.42		21.98				22.27.5.74	- 2.24	
		16	Groomb. 1664 S.P.	B	3.4	8.2	12.9	...	31.3	...	...	50.0	54.8	59.4	22.29.31.38		32.28				10.30.16.04	- 3.17	
		17	Groomb. 1666 S.P.	B	...	...	...	35.7	50.5	55.6	0.6	...	...	...	22.30.50.49		51.44				10.31.35.21	- 3.21	
		18	Groomb. 1667 S.P.	B	...	...	...	...	...	...	30.6	35.1	3.0	30.6	22.31.7.51		8.41				10.31.52.18	- 3.14	
		19	42 Ursæ Maj. S.P.	B	40.1	45.4	50.3	55.4	9.9	14.9	19.9	29.5	34.5	39.5	22.44.9.87		10.81				10.44.54.58	- 2.97	
		20	λ Aquarii	B	15.8	18.2	20.8	25.8	28.2	30.9	38.1	40.8	43.3	45.9	22.46.30.82		31.56	15.32	43.76		22.47.15.33	- 4.03	
		21	B.D.+72° No. 1071	B	21.9	29.5	38.0	55.3	3.3	12.0	36.7	45.0	53.1	2.5	22.49.11.86		11.59				22.49.55.36	- 3.10	
		22	Carrington γ S.P.	B	57.1	24.9	42.0	23.9	46.4	11.5	...	...	...	...	22.57.4.30		26.40				10.58.10.17	+ 1.84	
		23	Radcliffe 5953 ...	B	...	...	...	...	...	...	17.3	27.3	36.8	46.1	22.59.49.61		49.21				23.0.32.98	- 3.43	
		24	Groombridge 3983	B	29.4	38.7	48.4	...	...	...	...	4.0	14.0	23.6	23.0.26.46		26.06				23.1.9.83	- 3.45	
		25	Piazzi XXIII. 1..	B	...	35.5	45.0	3.8	13.5	23.6	52.0	1.1	10.8	...	23.2.23.35		22.94				23.3.6.71	- 3.52	
		26	Lalande F. 1826 S.P.	B	...	...	...	...	48.2	12.5	34.8	22.3	44.6	8.9	23.9.48.46		51.40				11.10.35.17	- 1.55	
		27	Oeltz. Arg. (N.) 25557	B	20.0	24.9	30.0	...	...	50.1	...	10.4	15.5	20.9	23.19.50.31		50.43				23.20.34.20	- 3.75	
		28	Groombridge 4002	B	0.5	5.4	...	...	25.5	30.9	45.8	50.9	55.9	...	23.20.30.80		30.92				23.21.14.69	- 3.76	
		29	Piazzi XXIII. 100	B	56.0	0.5	5.3	...	...	24.0	...	42.2	47.1	52.0	23.24.23.92		24.08				23.25.7.85	- 3.80	
		30	Piazzi XXIII. 101	B	...	10.1	14.9	...	...	28.9	33.5	...	...	56.7	1.5	23.24.33.53		33.69				23.25.17.46	- 3.80
		31	Groomb. 1808 S.P.	B	...	...	26.0	31.6	48.8	54.7	0.5	12.1	...	...	23.31.48.83		49.87				11.32.33.65	- 2.09	
		32	Groomb. 1816 S.P.	B	35.3	40.0	45.0	49.4	3.6	8.4	13.0	22.6	27.3	32.0	23.34.3.59		4.50				11.34.48.28	- 2.17	
		33	Groomb. 1818 S.P.	B	31.6	44.0	55.6	7.6	19.2	...	...	...	...	...	23.36.55.60		58.58				11.37.42.36	+ 0.81	
		34	γ Ursæ Maj. S.P.	B	13.6	18.0	22.5	26.7	39.1	43.6	47.8	56.0	0.2	4.5	23.47.39.14		39.98				11.48.23.76	- 2.06	
		35	Groombridge 4183	B	28.5	32.1	36.3	44.6	48.6	53.2	4.9	9.1	13.4	17.5	23.52.52.88		53.12				23.53.36.90	- 4.14	
		36	Groombridge 4189	B	...	...	...	...	11.5	15.6	27.8	32.0	36.0	40.2	23.53.15.64		15.88				23.53.59.66	- 4.14	
		37	Groomb. 1848 S.P.	B	50.4	2.5	13.6	26.0	36.9	...	...	...	...	...	23.57.13.88		16.84				11.58.0.62	+ 2.49	
		38	Groomb. 1850 S.P.	B	15.4	22.4	30.0	37.4	44.2	52.7	59.0	...	...	...	23.58.37.30		41.66				11.59.25.44	+ 5.83	
		39	Groombridge 4234	B	16.1	24.3	32.7	49.0	57.5	6.0	30.3	38.5	46.8	55.5	0.1.5.79		5.54			43.78	0.1.49.32	- 5.18	
		40	Oeltz. Arg. (N.) 43	B	50.5	54.4	...	...	9.6	...	24.8	28.5	32.2	...	0.4.13.42		13.71				0.4.57.49	- 4.21	
		41	Oeltz. Arg. (N.) 45	B	58.0	1.6	...	13.1	16.8	...	...	35.5	39.5	43.4	0.4.20.65		20.94				0.5.4.72	- 4.21	
		42	γ Pegasi	B	...	...	...	7.4	10.0	12.6	20.1	22.6	25.1	28.0	0.7.12.55		13.13	56.84	43.71		0.7.56.91	- 4.09	
		43	Groomb. 1860 S.P.	B	...	...	...	...	...	11.0	34.9	22.6	46.5	10.9	0.7.46.71		49.72				12.8.33.50	+ 3.48	
		44	Bradley 1656 S.P.	B	21.4	30.1	39.7	49.5	58.2	8.6	18.1	...	...	...	0.12.49.37		54.82				12.13.38.60	+ 10.61	
		45	Carrington 1852 S.P.	B	...	...	...	...	...	...	54.7	36.5	59.0	19.1	0.20.13.00		15.69				12.20.59.47	+ 3.55	
		46	Groombridge 87..	B	...	...	14.1	20.8	24.1	27.6	37.6	40.9	...	...	0.26.27.59		27.95				0.27.11.73	- 4.33	
		47	W. B. (2) 0. 647...	B	...	...	41.6	48.2	51.5	55.1	4.8	8.4	...	...	0.26.55.00		55.36				0.27.39.14	- 4.33	
		48	Lalande 799	B	...	...	...	29.4	34.2	39.5	53.5	...	...	...	0.27.39.25		39.39				0.28.23.17	- 4.79	
		49	Groombridge 109	B	...	...	39.5	43.3	51.0	54.9	58.9	10.6	14.2	18.1	0.31.58.89		59.16				0.32.42.95	- 4.55	
		50	Groombridge 135	B	48.9	53.1	57.4	5.8	10.1	14.4	27.0	31.2	35.4	39.8	0.39.14.37		14.59				0.39.58.38	- 4.74	
		51	* N.P.D. 35° 37'..	B	50.1	54.4	58.8	7.1	11.6	15.8	28.5	32.4	36.8	41.1	0.39.15.72		15.94				0.39.59.73	- 4.74	
		52	Groombridge 147	B	...	...	...	22.7	30.0	37.2	59.7	...	...	...	0.42.37.56		37.40				0.43.21.19	- 5.99	
		53	Carrington 104...	B	...	...	...	...	...	21.6	44.0	12.9	39.3	9.3	0.44.22.11		19.78				0.45.3.57	- 14.01	
		54	Carrington 124...	B	32.0	44.4	56.0	8.5	19.4	...	...	...	...	...	0.51.56.06		54.14				0.52.37.93	- 13.04	

5, 7. Observed over wires M, N, O, P and Q.

6. Observed over wires W, X, Y and Z.

8. Observed over wires V, W, X, Y and Z.

13. Observed over wire T with the transit-micrometer, set to readings 34°.100, 34°.600, 35°.100, 35°.600, 36°.100, 36°.600, 37°.100.

18. Observed over wires P, O, N and M.

21, 22, 23. Very faint. Observed in dark field with wires illuminated.

22. Observed over wire T with the transit-micrometer set to readings 35°.900, 35°.800, 35°.700, 35°.600, 35°.500, 35°.400, 35°.300.

33, 37. Observed over wire T with the transit-micrometer set to readings 36°.600, 36°.100, 35°.600, 35°.100, 34°.600.

38, 44. Observed over wire T with the transit-micrometer set to readings 36°.200, 36°.000, 35°.800, 35°.600, 35°.400, 35°.200, 35°.000.

54. Observed over wire T with the transit-micrometer set to readings 34°.600, 35°.100, 35°.600, 36°.100, 36°.600.

51. Very faint.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow as a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].							
				s	s	s	s	s	s	s	s	s	s		h	m							s
Oct. 21	1	Groombridge 206	B	37.4	42.9	47.8	57.6	2.5	7.4	22.0	26.9	31.5	36.7	0. 54. 7.34	+ 2.18	7.48			43.78	0. 54. 51.27	- 5.19	
	2	Groombridge 227	B	...	...	...	...	...	...	41.6	46.2	51.1	55.5	0. 57. 28.09	(+ 0.27)	28.26			[+ 0.24]	0. 58. 12.05	- 5.10	
	3	Groombridge 229	B	...	...	18.6	27.6	32.1	37.1	...	...	59.6	4.6	0. 57. 36.91	[+ 10.02]	37.08				0. 58. 20.87	- 5.11	
	4	Groomb.1960 S.P.	B	...	...	...	...	...	...	8.5	25.8	34.5	43.4	1. 0. 50.86		52.24				13. 1. 36.03	- 0.87	
	5	Groombridge 270	B	39.4	43.0	46.7	54.1	57.9	1.8	12.7	16.1	20.0	24.0	1. 7. 1.63		1.94				1. 7. 45.73	- 4.82	
	6	B. D. + 80° No. 34	B	...	...	...	...	...	...	21.9	37.9	53.9	9.9	1. 7. 35.15		34.08				1. 8. 17.87	- 10.48	
	7	θ Ceti	B	54.2	56.8	59.3	4.2	6.7	9.1	16.5	19.1	21.6	24.1	1. 18. 9.20		9.94	53.75	43.81		1. 18. 53.73	- 4.32	
	8	Polaris	B	56.2	2.8	10.4	16.6	22.5	30.1	37.5	43.5	50.0	56.2	1. 21. 21.41		10.08	54.56	44.48		1. 21. 53.87	- 60.71	
	9	Oeltz Arg. (N.) 1507..	B	...	...	...	...	25.1	34.2	0.2	8.8	18.0	27.1	1. 20. 34.23		33.92				1. 21. 17.71	- 7.50	
	10	A Cassiopeiæ	B	...	...	23.6	37.7	44.9	52.3	13.4	20.2	...	...	1. 22. 52.16		52.03				1. 23. 35.82	- 6.74	
	11	η Piscium	B	59.7	2.1	4.8	10.0	12.4	14.9	22.5	25.1	27.8	30.3	1. 25. 15.00		15.58	59.35	43.77		1. 25. 59.37	- 4.37	
	12	Carrington 218	B	31.5	38.0	45.2	51.9	59.5	12.1	19.2	25.5	32.4	39.7	1. 31. 5.50		2.59				1. 31. 46.39	- 20.84	
	13	Groombridge 369	B	44.4	48.0	51.8	59.0	2.7	6.5	17.4	21.2	24.9	28.7	1. 36. 6.52		6.83				1. 36. 50.63	- 5.06	
	14	Oeltz Arg. (N.) 1902-3	B	...	30.7	34.2	42.0	45.5	49.4	0.4	4.0	7.6	...	1. 36. 49.30		49.61				1. 37. 33.41	- 5.07	
	15	Lalande F. 275-6-8	B	...	...	...	...	...	48.5	34.4	50.1	5.8	22.0	1. 38. 48.48		47.44				1. 39. 31.24	- 11.75	
	16	Sappho	B	2.0	4.5	7.1	...	...	17.4	...	27.3	30.0	32.5	1. 42. 17.28		17.86				1. 43. 1.66	- 4.33	
	17	Piazzi I. 182	B	21.4	24.0	26.6	...	...	...	...	46.5	49.1	51.8	1. 43. 36.60		37.36				1. 44. 21.16	- 4.33	
	18	χ Ceti	B	33.2	35.8	38.2	...	...	...	...	58.2	0.9	3.5	1. 43. 48.33		49.09				1. 44. 32.89	- 4.32	
	19	α Arietis	B	44.5	47.1	49.9	54.9	57.5	0.0	7.8	10.1	12.9	15.6	1. 51. 0.07		0.63				1. 51. 44.43	- 4.46	
	20	δ 2 L.	B	34.0	36.5	39.1	44.3	46.9	49.7	57.5	0.0	2.7	5.3	1. 54. 49.64		50.21				1. 54. 30.46	- 1.16	
	21	Piazzi XIII. 306 S.P.	B	5.5	12.5	19.5	26.6	47.1	54.2	0.7	14.5	21.4	28.8	1. 58. 46.98		48.16				13. 59. 31.96	+ 1.16	
	22	W. B. (2) I. 1482..	B	44.7	47.3	50.0	54.9	57.5	0.4	8.0	10.5	13.1	16.0	2. 3. 0.28		0.85				2. 3. 44.65	- 4.47	
	23	Lalande 4023	B	52.1	54.7	57.6	3.1	5.9	8.5	16.8	19.4	22.1	25.0	2. 4. 8.56		9.43				2. 4. 53.23	- 4.35	
	24	η Arietis	B	3.0	5.6	8.2	13.5	16.1	18.8	...	...	...	...	2. 6. 18.81		19.35				2. 7. 3.15	- 4.54	
	25	19 Arietis	B	...	30.1	32.6	37.8	40.1	42.9	50.4	52.9	55.6	...	2. 6. 42.85		43.43				2. 7. 27.23	- 4.46	
	26	Groombridge 489	B	13.0	16.1	19.9	26.2	29.9	33.1	...	...	...	...	2. 10. 33.04		33.41				2. 11. 17.21	- 5.06	
	27	ζ Ceti	B	42.6	45.1	47.5	52.5	55.1	57.5	5.0	7.5	10.0	12.5	2. 21. 57.57		58.19	42.05	43.86		2. 22. 41.99	- 4.39	
	28	26 Arietis	B	52.7	55.5	58.0	3.3	6.0	8.6	16.2	18.9	21.7	24.1	2. 24. 8.54		9.08				2. 24. 52.88	- 4.55	
	29	Piazzi XIV. 126 S.P.	B	38.2	43.3	...	53.5	8.5	13.6	18.6	...	33.7	39.0	2. 28. 8.48		9.43				14. 28. 53.23	+ 0.27	
	30	Groomb. 2132 S.P.	B	2.2	8.5	14.4	...	38.9	...	...	2.6	8.6	15.0	2. 30. 38.54		39.61				14. 31. 23.42	+ 1.00	
	31	Groomb. 2146 S.P.	B	11.1	16.7	21.9	27.4	42.2	48.0	52.8	3.5	8.4	14.0	2. 38. 42.52		43.48				14. 39. 27.29	+ 0.48	
	32	Groombridge 553	B	...	47.1	50.4	...	...	4.1	...	17.8	21.1	...	2. 40. 4.15		4.49				2. 20. 48.30	- 5.27	
	33	Groombridge 555	B	...	10.7	14.1	...	...	27.9	...	41.3	45.1	...	2. 40. 27.87		28.21				2. 41. 12.02	- 5.27	
	34	Groombridge 566	B	51.1	54.2	58.0	4.9	8.4	12.1	...	...	...	...	2. 44. 11.89		12.23				2. 44. 56.04	- 5.33	
	35	Groomb. 2166 S.P.	B	20.0	24.7	29.2	33.6	46.9	51.4	55.3	4.6	9.0	13.4	2. 48. 46.74		47.61				14. 49. 31.42	- 0.02	
	36	Lalande 27298 S.P.	B	4.0	8.1	12.2	16.7	29.5	33.4	38.0	46.0	50.2	54.3	2. 51. 29.18		30.02				14. 51. 13.83	- 0.08	
	37	Piazzi XIV. 273 S.P.	B	55.4	4.9	14.3	25.0	...	3.2	13.0	32.1	42.2	52.0	2. 54. 53.40		54.89				14. 55. 38.70	+ 4.02	
	38	8 Ursæ Min. S.P.	B	...	55.8	6.0	15.6	44.7	54.2	4.4	23.1	33.1	...	2. 56. 44.42		45.91				14. 57. 29.72	+ 4.07	
	39	Groomb. 2186 S.P.	B	12.3	22.2	32.1	42.0	10.9	20.7	30.3	49.5	59.6	9.3	2. 57. 10.74		12.24				14. 57. 56.05	+ 4.09	
	40	Groombridge 594	B	...	14.0	28.0	54.8	9.2	23.4	4.2	17.9	32.5	...	3. 0. 23.27		22.41				3. 1. 6.22	- 13.27	
	41	δ Arietis	B	...	...	...	55.8	58.5	1.2	8.8	11.4	14.0	16.8	3. 5. 1.09		1.63	45.39	43.76		3. 5. 45.44	+ 4.60	
	42	γ Arietis	C	17.6	20.1	22.8	28.0	30.8	33.5	41.1	44.0	46.8	49.3	3. 14. 33.44		33.98	17.87	43.89	43.93	.....	.....	
	43	α Tauri	C	17.4	20.0	22.6	27.7	30.0	32.8	40.0	42.6	45.2	47.7	3. 18. 32.64		33.26	17.28	44.02		.....	.....	
	44	14 Ursæ Min. S.P.	B	...	...	...	...	30.1	39.4	47.2	5.7	14.9	23.8	3. 21. 30.14		31.54			43.78	15. 22. 15.35	+ 3.75	
	45	Piazzi XV. 110 S.P.	B	...	...	...	...	4.1	9.6	15.0	25.5	31.0	36.1	3. 25. 4.05		5.04				15. 25. 48.85	+ 0.96	
Oct. 22	46	Venus 1 L.	CD	32.9	35.5	38.3	43.6	46.1	48.9	56.6	59.1	2.0	4.9	15. 38. 48.83	(+ 0.53)	49.59			43.74	15. 39. 33.95	.....	
	47	α Ophiuchi	CD	8.6	11.1	13.8	18.7	21.3	23.9	31.4	33.9	36.3	39.1	17. 29. 23.85	[+ 8.73]	24.40	8.31	43.91	[+ 0.24]	17. 30. 8.31	- 1.96	
	48	β Ophiuchi	CD	22.9	25.2	27.9	32.7	35.1	37.9	45.0	47.6	50.0	52.5	17. 37. 37.72		38.31	22.23	43.92		17. 38. 22.23	- 2.19	
	49	μ Herculis	CD	23.6	26.3	29.2	34.8	37.5	40.3	48.6	51.4	54.2	57.1	17. 41. 40.34		40.81	24.75	43.94		17. 42. 24.73	- 1.51	
	50	λ Ursæ Minoris	CD	46.7	54.1	0.5	14.2	20.3	26.8	38.9	48.0	53.7	6.3	19. 24. 57.50		47.28				19. 25. 31.21	+ 89.79	
	51	θ Aquilæ	CD	0.0	2.5	5.0	9.9	12.3	...	22.1	24.6	27.1	29.6	20. 5. 14.83		15.46	59.36	43.90		20. 5. 59.40	- 3.08	
	52	μ Aquarii	B	6.4	8.9	11.5	16.4	18.9	21.5	28.9	31.5	34.0	36.5	20. 46. 21.49		22.17	6.15	43.98	43.80	.....	.....	

Corrections for passage of Semidiameter, Nos. 20 and 46, — 63".57 and + 0".46.

18. Observed over wire R with the transit-micrometer set to readings 34".775, 34".837, 34".910, 34".950, 34".999, 35".070, 35".126, 35".169, 35".237, 35".320.

12. Observed over wire T with the transit-micrometer set to readings 34".600, 34".800, 35".000, 35".200, 35".400, 35".800, 36".000, 36".200, 36".400, 36".600.

20. Correction to R.A. on true meridian. + 0".02.

21. Faint; cloudy.

26, 34, 44, 45. Cloudy.

50. Observed over wire X with the transit-micrometer set to readings 36".824, 36".874, 36".923, 37".023, 37".073, 37".114, 37".199, 37".269, 37".304, 37".394.

1898

MONTH
and
DAY.

No. of Reference.

NAME
OF
OBJECT.

Observer.

Seconds of Transit over the Wires.

I.

s

II.

s

III.

s

IV.

s

V.

s

VI.

s

VII.

s

VIII.

s

IX.

s

X.

s

Concluded
Transit
over the
Centre Wire.

h m s

Error of
Collimation.
(Level).
[Azimuth].

''

Seconds
of
Transit
Cor-
rected.

s

Tabular
R.A.
of
Known
Stars.

s

Clock
appa-
rently
Slow.

s

Adopted
Clock Slow
at
Sideral
and
[Losing Rate].

s

Apparent
R.A.
of Centre
from the
Observation.

h m s

Correction
for Re-
duction to
Mean R.A.
1895.

s

Oct. 22

132 Vulpeculæ ... B
Groombridge 3387 CD
Oeltz. Arg. (N.) 24176 CD
Bradley 1446 S.P. CD
Groomb. 1664 S.P. CD
ζ Pegasi CD
ζ Pegasi (E&E) CD
μ Pegasi CD
μ Pegasi (E&E) CD
Groombridge 3977 CD
Lalande F. 1826 S.P. CD
Piazzi XXIII. 100 CD
Groombridge 4110 CD
Groombridge 4116 CD
Groomb. 1851 S.P. CD
B. D. + 75° No. 6 CD
Carrington 1852 S.P. CD
Groombridge 109 CD
* N.P.D. 32° 45' CD
Piazzi O. 237 CD
ε Piscium CD
β Andromedæ ... CD
B. D. + 58° No. 201 CD
Groomb. 2007 S.P. CD
Polaris CD
Piazzi I. 182 CD
Carrington 2106 S.P. CD
α Arietis CD
Polaris S.P. HA

9'0 11'8 14'5 20'1 22'9 25'8 34'0 36'9 39'6 42'5 20. 49. 25'75
... .. 26'9 31'3 35'6 1'2 27'1 21. 0. 9'96
18'0 22'1 26'2 34'1 38'0 42'2 22. 24. 42'12
... .. 33'8 44'8 55'2 16'1 22. 25. 34'17
3'8 8'4 12'7 18'1 31'0 36'1 40'5 50'5 54'9 59'5 22. 29. 31'48
20'4 23'0 25'6 30'5 33'0 35'6 43'0 45'6 48'1 50'6 22. 35. 35'58
49'2 4'4 ... 34'5 ... 4'6 19'6 22. 35. 35'55
1'9 4'5 7'4 12'6 15'3 18'1 26'0 28'7 31'5 34'2 22. 44. 18'06
28'3 44'4 49'4 5'6 22. 44. 18'03
7'7 12'9 18'4 29'1 34'5 40'0 56'0 1'3 6'8 12'4 22. 59. 39'99
... 53'4 17'8 40'1 49'6 12'9 36'0 22'9 46'6 ... 23. 9. 49'46
55'9 0'4 5'2 14'4 19'0 23'9 37'6 42'1 47'0 52'0 23. 24. 23'82
... .. 0'1 4'9 9'4 14'3 23. 32. 46'28
... .. 48'3 52'9 57'8 11'8 16'3 21'1 26'0 23. 33. 57'74
56'7 8'5 19'6 31'3 4'4 16'2 27'5 49'5 1'0 12'1 23. 59. 4'51
... .. 59'4 28'6 38'5 48'4 58'7 0. 10. 59'26
... .. 12'4 34'1 57'1 38'2 0'0 18'9 0. 20. 13'66
... .. 53'8 58'6 10'1 14'1 18'1 22'1 0. 31. 58'66
41'5 46'0 50'9 0'0 4'2 9'3 22'5 27'2 31'7 36'2 0. 42. 9'02
50'4 54'4 58'6 6'4 10'2 14'4 26'1 30'1 34'1 38'2 0. 51. 14'35
37'5 39'9 42'4 47'2 49'9 52'3 59'8 2'1 4'7 7'2 0. 56. 52'34
56'2 59'5 2'4 8'2 11'4 14'6 23'4 26'3 29'6 32'6 1. 3. 14'46
... .. 37'1 41'9 46'9 1'0 5'9 10'6 15'8 1. 7. 46'81
34'6 50'0 4'2 20'2 35'5 5'1 20'2 35'7 50'6 5'7 1. 17. 50'18
54'0 6'0 15'2 32'0 40'0 47'6 9'0 18'2 34'7 1'2 1. 21. 18'17
... .. 31'4 33'9 36'3 44'0 46'5 49'0 51'6 1. 43. 36'47
56'5 11'4 24'0 53'5 6'9 21'3 1. 50. 38'93
22'4 25'1 27'9 33'1 36'0 38'5 46'5 49'4 52'0 54'8 2. 0. 38'61
0'0 9'6 18'2 25'9 32'2 58'1 6'9 15'8 46'0 54'0 13. 21. 0'62

+ 2'18
(+ 0'53)
[+ 8'73]

26'21 10'25 44'04
10'21
42'40
35'40
32'22
36'15 20'12 43'97
36'12 20'12 44'00
18'54 2'51 43'97
18'51 2'51 44'00
40'15
51'71
24'04
46'51
57'96
5'80
59'02
15'74
58'96
9'25
14'64
52'93 36'92 43'99
14'88 58'93 44'05
47'01
52'96
9'89 54'65 44'76
37'17
43'03
39'10 23'11 44'01
9'85 54'70 44'85

43'80
[+ 0'24
43'74
.....
21. 0. 54'16
22. 25. 26'36
10. 26. 19'36
10. 30. 16'18
22. 36. 20'12
.....
22. 45. 2'51
.....
23. 0. 24'12
11. 10. 35'68
23. 25. 8'01
23. 33. 30'49
23. 34. 41'94
11. 59. 49'78
0. 11. 43'00
12. 20. 59'72
0. 32. 42'95
0. 42. 53'24
0. 51. 58'63
0. 57. 36'92
1. 3. 58'87
8. 31'00
13. 18. 36'95
1. 21. 53'88
1. 44. 21'17
13. 51. 27'03
2. 1. 23'10
1. 21. 54'02

.....
21. 0. 54'16
22. 25. 26'36
10. 26. 19'36
10. 30. 16'18
22. 36. 20'12
.....
22. 45. 2'51
.....
23. 0. 24'12
11. 10. 35'68
23. 25. 8'01
23. 33. 30'49
23. 34. 41'94
11. 59. 49'78
0. 11. 43'00
12. 20. 59'72
0. 32. 42'95
0. 42. 53'24
0. 51. 58'63
0. 57. 36'92
1. 3. 58'87
8. 31'00
13. 18. 36'95
1. 21. 53'88
1. 44. 21'17
13. 51. 27'03
2. 1. 23'10
1. 21. 54'02

.....
21. 0. 54'16
22. 25. 26'36
10. 26. 19'36
10. 30. 16'18
22. 36. 20'12
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Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 7, 9, 46 and 48, — 58^s.95 : — 58^s.95 : — 60^s.32 and — 60^s.32.
Correction for passage of Semidiameter, No. 33, + 0^s.46.

2. Observed over wires V, W, X, Y and Z. 5, 17, 52. Observed in dark field with wires illuminated.
 24. Observed over wire T with the transit-micrometer set to readings 38^r.100, 37^r.600, 37^r.100, 36^r.600, 36^r.100, 35^r.100, 34^r.600, 34^r.100, 33^r.600, 33^r.100.
 25. Observed over wire U with the transit-micrometer set to readings 33^r.990, 34^r.121, 34^r.190, 34^r.349, 34^r.424, 34^r.484, 34^r.684, 34^r.744, 34^r.884, 35^r.106.
 27. Observed over wire T with the transit-micrometer set to readings 36^r.500, 36^r.200, 35^r.900, 35^r.300, 35^r.000, 34^r.700.
 29. Observed over wire T with the transit-micrometer set to readings 36^r.131, 36^r.057, 35^r.961, 35^r.910, 35^r.861, 35^r.621, 35^r.535, 35^r.456, 35^r.198, 35^r.140.
 33. Very faint; cloudy.

1883 MON. 58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[179]

MONTH a.d. 1893.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Red- uction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
Oct. 23	1	μ Pegasi.....	W	1'3	4'1	6'9	12'1	14'9	17'8	25'9	28'7	31'4	34'0	22.44.17'75	+ 2'18	18'43	2'50	44'07	43'99	.....		
	2	B.D.+72° No.1071	HA	19'5	...	36'9	53'8	2'0	10'6	34'9	43'7	...	2'0	22.49.10'55	(+ 0'53)	10'44			[+ 0'21]	22.49.54'69	- 3'01	
	3	Groombridge 3977	HA	34'6	7'1	12'5	18'1	...	...	...	...	...	...	22.59.39'42	[+ 8'73]	39'58			44'05	22.0.23'83	- 3'35	
	4	Radcliffe 5953 ...	HA	...	...	...	...	...	48'1	16'2	26'0	36'0	45'6	22.59.48'49		48'30				23.0.32'55	- 3'33	
	5	ϕ Aquarii	HA	0'5	2'9	5'4	10'2	13'1	15'4	22'7	25'2	27'5	30'1	23.8.15'34		16'00				23.9.0'25	- 4'07	
	6	γ Piscium	HA	50'7	53'1	55'8	0'5	3'0	5'5	12'9	15'4	17'7	20'1	23.11.5'51		6'12	50'36	44'24		23.11.50'37	- 3'98	
	7	Groomb. 1787 S.P.	HA	...	...	53'7	58'2	11'6	16'2	21'0	30'0	...	...	23.23.11'69		12'42				11.23.56'67	- 2'42	
	8	Groomb. 1791 S.P.	HA	...	...	52'3	56'9	10'4	15'1	20'0	28'9	...	...	23.24.10'51		11'24				11.24.55'49	- 2'40	
	9	Groomb. 4084 (S. Star)...	HA	...	...	4'7	10'8	...	18'2	...	...	...	38'2	23.26.17'99		18'35				23.27.2'60	- 3'75	
	10	Groomb. 4084 (N. Star)...	HA	...	...	5'5	11'9	...	19'0	...	...	...	38'9	23.26.18'84		19'20				23.27.3'45	- 3'75	
	11	B.D.+29° No.4969	HA	...	...	...	...	...	59'8	2'2	5'6	22'1	39'3	23.30.48'37		48'83				23.31.33'09	- 3'83	
	12	Groomb. 1816 S.P.	HA	34'9	39'9	...	49'1	3'1	8'2	13'0	...	27'1	31'8	23.34.3'32		4'06				11.34.48'32	- 2'23	
	13	Groomb. 1818 S.P.	HA	30'9	43'0	54'0	7'4	19'3	...	...	...	...	...	23.36.54'92		57'20				11.37.41'46	+ 0'58	
	14	Oeltz. Arg. (N.) 25964	HA	...	...	...	...	...	4'8	12'6	21'4	29'5	23.37.40'37		40'27					23.38.24'53	- 4'45	
	15	δ Sculptoris	HA	33'1	36'0	38'7	44'1	46'9	50'0	58'4	1'1	4'1	6'9	23.42.49'97		50'80	35'14	44'34		23.43.35'06	- 4'56	
	16	ϕ Pegasi	HA	15'2	17'9	20'5	25'7	28'2	30'9	38'6	41'4	44'0	46'5	23.46.30'93		31'44				23.47.15'70	- 3'97	
17	Radcliffe 2790 S.P.	HA	...	45'9	4'4	23'1	17'0	...	...	...	...	...	23.57.17'16		19'03				11.58.3'29	+ 1'13		
18	Ceres	HA	0'5	3'1	5'8	10'6	13'1	15'9	23'5	26'0	28'5	31'1	23.59.15'85		16'56				0.0.0'82			
19	Groomb. 1889 S.P.	HA	...	...	...	...	28'5	54'9	17'5	6'8	32'0	54'8	0.18.28'55		30'90			44'26	12.19.15'16	+ 4'40		
20	β Ceti	HA	25'9	28'4	31'1	36'3	38'9	41'5	49'5	52'0	54'4	57'1	0.37.41'55		42'28	26'54	44'26		0.38.26'55	- 4'41		
Oct. 24	21	Polaris	AC	18'0	24'2	32'1	38'9	12'1	20'0	28'0	39'4	4'2	16'4	1.21.22'97	(+ 0'03)	12'94			44'46	1.21.57'41	- 60'97	
	22	β Arietis	AC	57'5	0'0	2'5	7'9	10'5	13'1	20'9	23'6	26'2	29'0	1.48.13'16	[+ 9'01]	13'65	58'06	44'41	[+ 0'18]	.....		
	23	α Arietis	AC	22'0	24'6	27'5	32'7	35'5	38'1	46'1	48'9	51'5	54'1	2.0.38'14		38'61	23'13	44'52		.....		
	24	α Ceti	B	...	...	...	...	...	17'3	19'6	22'1	24'7	2.56.9'86		10'45	54'89	44'44	44'46		2.56.54'93	- 4'39	
	25	δ Arietis	B	...	47'7	50'0	55'3	57'9	0'6	8'2	10'9	13'6	...	3.5.0'58		1'07	45'44	44'37		3.5.45'55	- 4'65	
	26	Carrington 2286 S.P.	B	...	...	...	47'6	12'0	34'6	19'1	...	...	...	3.7.48'53		51'06				15.8.35'54	+ 14'31	
	27	Lalande F. (2) 194	B	...	...	...	...	...	1'9	16'9	32'0	47'8	3.10.18'06		17'19					3.11.1'67	- 14'55	
	28	Oeltz. Arg. (N.) 15292 S.P.	B	...	...	...	...	48'4	53'9	4'9	10'2	16'0	3.14.42'67		43'56					15.15.28'04	+ 1'08	
	29	Oeltz. Arg. (N.) 15312 S.P.	B	42'2	48'1	53'6	59'5	15'6	21'3	26'6	37'8	43'5	49'0	3.16.15'64		16'53				15.17.1'01	+ 1'10	
	30	Bradley 459	B	...	18'0	26'0	41'4	49'1	57'2	20'1	28'0	35'9	...	3.18.57'11		56'94				3.19.41'42	- 9'10	
	31	Groombridge 657	B	18'3	26'0	34'0	49'4	57'1	5'2	28'0	36'0	43'8	52'0	3.20.5'10		4'93				3.20.49'42	- 9'11	
	32	B.D.+15° No. 495	B	7'3	9'9	12'3	17'5	20'0	22'6	30'2	32'9	35'5	38'0	3.24.22'66		23'17				3.25.7'66	- 4'58	
	33	W. B. (2) III. 592	B	17'2	19'7	22'2	27'5	30'0	32'5	40'1	42'8	45'5	48'1	3.29.32'60		33'11				3.30.17'60	- 4'58	
	34	B.D.+16° No. 474	B	13'6	16'0	18'5	23'8	26'2	28'9	36'5	39'1	41'7	44'3	3.30.28'90		29'41				3.31.13'90	- 4'58	
	35	Piazzi III. 97	B	1'2	...	11'1	...	...	30'9	...	50'0	...	0'0	3.33.30'67		30'79				3.34.15'28	- 6'82	
	36	Groombridge 720	B	5'4	...	15'4	...	...	34'9	...	54'1	...	4'2	3.33.34'83		34'95				3.34.19'44	- 6'83	
	37	W. B. (2) III. 713	B	...	...	...	...	...	56'4	59'3	2'0	4'7	3.34.48'41		48'86				3.35.33'35	- 4'79		
	38	Lalande 7019	B	...	...	20'1	29'4	33'9	38'6	52'1	56'8	...	...	3.44.38'57		38'72				3.45.23'21	- 6'66	
	39	τ^3 Eridani	B	...	...	...	30'2	33'1	36'0	44'0	46'7	49'2	52'0	3.48.35'82		36'62				3.49.21'11	- 3'99	
	40	ϵ Persei (N. Star)	B	...	...	59'9	6'4	9'8	13'1	22'4	25'7	...	...	3.50.12'94		13'29				3.50.57'78	- 5'34	
	41	Piazzi III. 229 ...	B	32'9	35'6	38'6	44'3	47'1	50'0	58'8	1'4	4'2	7'5	3.55.50'08		50'94				3.56.35'43	- 3'91	
	42	Groombridge 775	B	...	...	46'6	0'5	7'6	14'6	35'1	42'2	...	...	3.58.14'57		14'48				3.58.58'97	- 8'76	
	43	Groomb. 2307 S.P.	B	...	...	...	...	...	34'7	41'1	47'5	27'4	3.59.8'32		9'32				15.59.53'81	+ 2'25		
	44	Groomb. 2319 S.P.	B	...	...	53'5	1'0	22'8	30'1	38'0	52'2	...	...	4.4.22'78		23'87				16.5.8'36	+ 3'02	
	45	Oeltz. Arg. (N.) 15970 S.P.	B	...	...	2'9	10'3	32'1	39'7	47'5	2'0	...	...	4.4.32'27		33'36				16.5.17'85	+ 3'02	
	46	Oeltz. Arg. (N.) 4611.	B	...	...	56'8	7'0	...	17'8	...	...	...	48'8	4.8.17'62		17'71				4.9.2'20	- 7'25	
	47	Groombridge 796	B	...	...	1'8	12'0	...	22'5	...	...	...	53'9	4.8.22'57		22'66				4.9.7'15	- 7'25	
	48	Groombridge 806	B	...	...	...	41'1	46'4	51'6	6'2	...	...	...	4.11.51'44		51'55				4.12.36'04	- 7'08	
	49	Piazzi IV. 22.....	B	...	...	...	57'2	2'1	7'5	22'1	...	...	...	4.12.7'34		7'44				4.12.51'93	- 7'08	
	50	Groomb. 2335 S.P.	B	...	...	58'8	7'6	33'2	42'2	51'0	8'0	...	...	4.14.33'30		34'53				16.15.19'02	+ 4'21	
	51	Groombridge 807	B	...	...	...	...	...	...	17'9	29'4	40'6	52'2	4.16.44'38		43'85				4.17.28'34	- 12'62	
	52	η Ursæ Min. S.P..	B	...	...	...	...	40'9	51'9	1'6	22'1	32'6	42'5	4.19.41'23		42'58				16.20.27'07	+ 5'54	

2, 4, 7, 8, 9, 10, 11, 12, 13, 14, 19. Observed in dark field with wires illuminated.

11. Observed over wires V, W, X, Y and Z.

3. Observed over wires N, O, P and Q.

13. Observed over wire T with the transit-micrometer set to readings 36''600, 36''100, 35''600, 35''100, 34''600.

21. Observed over wire X with the transit-micrometer set to readings 37''950, 38''014, 38''079, 38''153, 38''412, 38''499, 38''550, 38''668, 38''875, 38''980.

43. Observed over wires Q, P, O and N.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					h	m	s		h	m	s
1896	Oct. 24	1	η Draconis S.P....	B	17.1	22.3	27.9	32.9	...	...	...	...	...	...	4. 21. 48.39	+ 2.18	49.24			44.46	16. 22. 33.73	+ 1.11					
2	ε Tauri	B	...	...	...	...	...	52.1	59.9	2.4	5.1	7.9	4. 21. 52.13	(+ 0.03)	52.62	37.15	44.53	[+ 0.18]	4. 22. 37.11	- 4.60							
3	Bradley 619	B	40.4	42.9	45.6	50.7	53.3	56.0	3.5	6.0	8.5	11.4	4. 23. 55.87	[+ 9.01]	56.38				4. 24. 40.87	- 4.52							
4	δ 2 L.	B	48.8	51.6	54.6	0.0	2.9	5.9	14.1	17.1	20.0	22.9	4. 29. 5.83		6.27				4. 28. 41.51								
5	Groombridge 860	B	...	...	44.9	52.2	56.0	59.9	10.5	14.2	...	...	4. 32. 59.69		59.96				4. 33. 44.45	- 5.87							
6	Groombridge 862	B	...	...	...	...	...	38.0	49.1	53.0	56.9	0.6	4. 33. 37.86		38.11				4. 34. 22.60	- 5.99							
7	Groomb. 2370 S.P.	B	...	...	...	...	5.2	...	16.2	27.1	32.7	...	4. 35. 5.15		6.04				16. 35. 50.53	+ 1.40							
8	Carrington 665 ...	B	...	...	...	43.3	...	16.6	6.0	...	39.6	...	4. 38. 16.79		15.75				4. 39. 0.24	- 17.29							
9	Groombridge 856	B	...	...	22.6	54.4	10.0	26.5	13.0	28.9	...	...	4. 40. 26.21		25.25				4. 41. 9.74	- 16.68							
10	Piazzi IV. 194 ...	B	38.5	41.1	43.7	49.0	51.5	54.0	1.6	4.1	6.7	9.4	4. 42. 54.00		54.51				4. 43. 39.01	- 4.47							
11	96 Tauri	B	...	...	56.0	...	...	...	14.0	16.5	19.2	21.9	4. 43. 6.39		6.90				4. 43. 51.40	- 4.47							
12	Piazzi XVI. 239 S.P.	B	...	...	...	...	...	...	59.0	4.2	10.0	43.5	4. 45. 36.52		37.42				16. 46. 21.92	+ 1.49							
13	α Orionis	B	35.4	38.0	40.4	45.5	48.0	50.7	58.1	0.7	3.4	6.0	4. 49. 50.66		51.19				4. 50. 35.69	- 4.39							
14	Groombridge 895	B	...	...	...	...	...	...	12.6	23.6	34.1	44.9	4. 52. 41.53		41.08				4. 53. 25.58	- 12.12							
15	Groombridge 900	B	19.4	29.9	40.2	...	...	22.6	...	4.5	15.2	26.0	4. 54. 22.64		22.19				4. 55. 6.69	- 12.10							
16	Groomb. 2407 S.P.	B	...	...	...	...	57.5	4.6	11.5	24.9	32.0	39.1	4. 57. 57.42		58.46				16. 58. 42.96	+ 2.72							
17	Groomb. 2412 S.P.	B	...	...	20.8	...	...	...	...	16.8	24.0	30.9	4. 58. 48.81		49.86				16. 59. 34.36	+ 2.78							
18	Groomb. 2427 S.P.	B	...	...	...	...	4.6	15.3	25.1	44.2	54.1	4.2	5. 4. 5.01		6.33				17. 4. 50.83	+ 5.29							
19	ρ Orionis (1st Star)..	B	...	...	...	5.0	7.5	10.1	17.5	...	...	...	5. 7. 10.08		10.68				5. 7. 55.18	- 4.09							
20	ρ Orionis (2nd Star)..	B	...	58.1	0.6	...	...	...	...	20.2	22.9	...	5. 7. 10.50		11.10				5. 7. 55.60	- 4.09							
21	Lalande 9820	B	16.3	18.8	21.4	26.2	28.8	31.4	38.5	41.0	43.7	46.1	5. 8. 31.26		31.84				5. 9. 16.34	- 4.14							
22	λ Leporis	B	...	...	...	0.1	2.8	5.5	13.1	15.6	18.1	20.6	5. 14. 5.44		6.15				5. 14. 50.65	- 3.74							
23	B.D.+37° No. 1161	B	43.0	46.0	49.3	55.5	58.4	1.7	10.9	14.0	17.1	20.2	5. 15. 1.66		2.02				5. 15. 46.52	- 5.17							
24	Lacaille 1823	B	2.5	5.4	8.1	13.5	16.2	19.4	27.5	30.2	32.9	36.0	5. 18. 19.21		20.03				5. 19. 4.53	- 3.48							
25	Groomb. 2439 S.P.	B	...	...	...	...	7.2	14.6	21.8	35.8	43.3	50.1	5. 20. 7.24		8.31				17. 20. 52.81	+ 2.90							
26	Groomb. 2441 S.P.	B	32.9	40.2	47.7	54.8	16.0	23.5	30.4	44.9	52.0	59.5	5. 21. 16.08		17.15				17. 22. 1.65	+ 2.91							
27	* N.P.D. 59° 38'..	B	25.1	28.0	31.0	36.5	39.6	42.4	50.8	53.5	56.4	59.6	5. 24. 42.33		42.75				5. 25. 27.25	- 4.84							
28	W. B. V. 603 ...	B	...	...	...	55.3	58.0	0.4	7.7	10.1	12.7	15.1	5. 26. 0.37		0.99				5. 26. 45.49	- 3.96							
29	φ ¹ Orionis	B	10.6	13.1	15.6	20.5	23.1	25.8	33.1	35.6	38.1	40.8	5. 28. 25.67		26.23				5. 29. 10.73	- 4.18							
30	ν ¹ Draconis S.P....	B	...	...	...	...	...	...	39.6	44.9	49.4	14.3	5. 29. 22.79		23.54				17. 30. 8.04	+ 0.24							
31	ν ² Draconis S.P....	B	...	...	...	...	...	...	36.1	44.0	48.2	53.8	5. 29. 27.09		27.84				17. 30. 12.34	+ 0.23							
32	α Columbae	B	52.8	55.9	59.0	4.6	7.4	10.7	19.4	22.4	25.5	28.4	5. 35. 10.65		11.55	56.26	44.71		5. 35. 56.05	- 3.22							
33	Lalande 10913-4-6 ...	B	...	...	...	40.0	42.5	45.4	53.3	55.9	58.6	1.2	5. 40. 45.38		45.87				5. 41. 30.37	- 4.46							
34	Groombridge 1024	B	...	...	...	...	57.6	1.8	13.5	17.5	21.5	25.5	5. 42. 1.75		1.98				5. 42. 46.48	- 6.02							
35	φ ¹ Draconis S.P....	B	...	...	...	...	...	...	38.2	46.4	35.5	23.9	5. 42. 58.17		59.32				17. 43. 43.82	+ 3.60							
36	Bradley 2252 S.P.	B	...	...	...	...	...	...	40.0	48.2	37.1	25.4	5. 42. 59.85		1.00				17. 43. 45.50	+ 3.60							
37	γ Columbae	B	50.1	53.1	56.1	2.7	5.4	8.5	17.3	20.8	23.8	26.9	5. 53. 8.51		9.42				5. 53. 53.92	- 3.07							
38	Mars 1 L.	B	22.0	24.5	27.4	32.8	35.5	38.1	46.2	48.9	51.6	54.4	5. 54. 38.10		39.18				5. 55. 23.68								
39	Mars 2 L.	B	23.1	25.7	28.5	33.9	36.5	39.4	47.4	50.0	52.9	55.6	5. 54. 39.34		20.60				6. 1. 5.11	- 5.24							
40	B.D.+41° No. 1364	B	0.5	3.9	7.1	13.7	16.9	20.2	30.0	33.4	36.5	40.0	6. 0. 20.27		23.82				6. 2. 8.33	- 3.15							
41	Lacaille 2130	B	...	...	...	...	...	...	31.5	34.2	37.1	40.0	6. 1. 22.97		10.85				6. 4. 55.36	- 6.75							
42	Groombridge 1095	B	...	...	51.5	1.0	5.8	10.6	25.0	29.9	...	...	6. 4. 10.73		35.12	19.08	43.96		18. 5. 19.63	+ 31.57							
43	ε Ursæ Min. S.P....	B	0.2	6.0	9.9	13.1	33.5	37.7	41.5	45.1	48.2	51.5	6. 4. 30.82		3.44				6. 8. 47.95	- 4.29							
44	71 Orionis	B	...	...	...	...	...	...	10.7	13.2	16.0	18.7	6. 8. 2.95		5.99				6. 9. 50.50	- 3.63							
45	5 Monocerotis ...	B	...	...	...	0.4	2.9	5.4	12.6	15.1	17.6	20.2	6. 9. 5.33		40.92				6. 10. 25.43	- 3.66							
46	Lalande 11949 ...	B	...	...	...	...	...	40.2	47.7	50.0	52.6	55.2	6. 9. 40.27		55.86				6. 17. 40.37	- 5.14							
47	Groombridge 1154	B	...	...	...	...	...	...	...	5.1	8.5	11.8	15.2	6. 16. 55.53		35.11				6. 18. 19.62	- 3.85						
48	Bradley 932	B	...	...	...	...	...	...	41.9	44.2	46.9	49.4	6. 17. 34.52		59.41				6. 20. 43.92	- 5.90							
49	Groombridge 1161	B	34.9	38.9	43.1	51.0	55.1	59.4	11.1	15.1	19.2	23.4	6. 19. 59.18		5.75				6. 23. 50.26	- 3.54							
50	11 Monocerotis (2nd Star)	B	...	...	...	59.9	2.5	5.2	12.5	14.9	17.5	20.1	6. 23. 5.09		59.41				6. 25. 43.92	- 5.90							
51	Groomb. 1173 (N. Star)	B	34.8	38.9	42.9	...	...	...	...	15.3	19.4	23.6	6. 24. 59.19		59.71				6. 25. 44.22	- 5.90							
52	Groomb. 1173 (S. Star)	B	...	...	...	51.2	55.4	59.6	11.4	...	...	...	6. 24. 59.49		7.01				6. 28. 51.52	- 3.02							
53	Oeltz. Arg. (S.) 5270..	B	...	...	...	...	...	...	14.3	17.3	20.1	23.0	6. 28. 6.18		7.03				6. 31. 51.54	- 3.23							
54	Piazzi VI. 178 ...	B	50.7	53.2	56.0	1.0	3.6	6.2	...	...	...	...	6. 31. 6.29														

Correction for passage of Semidiameter, No. 4, — 69s.27.

4. Correction to R.A. on true meridian, + 0s.02.
 27, 53. Observed in dark field with wires illuminated.
 38. A correction of — 0s.08, for defect of illumination, has been applied in forming the concluded transit.
 43. Observed over wire T with the transit-micrometer set to readings 33s.466, 33s.344, 33s.250, 33s.181, 32s.650, 32s.560, 32s.470, 32s.404, 32s.309, 32s.238.
 7. Cloudy.
 32. Very diffused.
 12, 30. Observed over wires Q, P, O and N.
 35, 36. Observed over wires P, O, N and M.

MON. 1898 DA		No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire. h m s	Error of Collimation. (Level). [Azimuth]. "	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0 Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation. h m s	Correction for Re- duction to Mean R.A. 1896 ^o . "
					I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
					s	s	s	s	s	s	s	s	s	s								
Oct. 24	1	ν^1 Canis Majoris ..	B	52 ^o 0	54 ^o 4	57 ^o 1	2 ^o 1	4 ^o 9	7 ^o 6	...	...	...	...	6. 31. 7 ^h 52	+ 2 ^o 18	8 ^h 26			44 ^h 46	6. 31. 52 ^h 77	- 3 ^h 23	
	2	ν^2 Canis Majoris ..	B	...	...	...	21 ^h 4	24 ^h 0	26 ^h 6	34 ^h 2	37 ^h 0	39 ^h 6	42 ^h 2	6. 31. 26 ^h 59	(+ 0 ^o 03)	27 ^h 34			[+ 0 ^h 18]	6. 32. 11 ^h 85	- 3 ^h 22	
	3	Oeltz. Arg. (S.) 5609.	B	...	...	...	33 ^h 5	36 ^h 2	39 ^h 3	47 ^h 6	50 ^h 6	53 ^h 5	56 ^h 4	6. 39. 39 ^h 25	[+ 9 ^o 01]	40 ^h 10				6. 40. 24 ^h 61	- 2 ^h 89	
	4	Piazzi VI. 236 ...	B	...	...	...	...	...	56 ^h 9	4 ^h 8	7 ^h 5	10 ^h 0	12 ^h 9	6. 40. 56 ^h 97		57 ^h 74				6. 41. 42 ^h 25	- 3 ^h 12	
	5	Lalande 13351 ...	B	...	...	53 ^h 6	58 ^h 8	1 ^h 2	4 ^h 0	11 ^h 7	14 ^h 1	...	...	6. 48. 3 ^h 95		4 ^h 65				6. 48. 49 ^h 16	- 3 ^h 12	
	6	Cephei 51	B	56 ^h 2	5 ^h 7	16 ^h 2	26 ^h 4	36 ^h 7	57 ^h 1	7 ^h 5	17 ^h 6	28 ^h 1	37 ^h 8	6. 51. 46 ^h 93		42 ^h 75	27 ^h 02	44 ^h 27		6. 52. 27 ^h 26	- 4 ^h 69	
	7	ϵ Canis Majoris ...	B	...	...	38 ^h 5	44 ^h 0	46 ^h 9	49 ^h 7	58 ^h 2	0 ^h 9	...	...	6. 53. 49 ^h 75		50 ^h 59	35 ^h 08	44 ^h 49		6. 54. 35 ^h 10	- 2 ^h 83	
	8	Lalande 35695 S.P.	B	...	...	...	...	11 ^h 6	17 ^h 4	23 ^h 5	34 ^h 8	41 ^h 1	46 ^h 9	6. 55. 11 ^h 57		12 ^h 49				18. 55. 57 ^h 00	+ 1 ^h 05	
	9	Piazzi VI. 293 ...	B	...	...	...	...	...	12 ^h 2	26 ^h 8	31 ^h 9	36 ^h 7	41 ^h 8	6. 56. 12 ^h 22		12 ^h 33				6. 56. 56 ^h 84	- 6 ^h 45	
	10	Piazzi VI. 311 ...	B	...	...	...	...	...	14 ^h 4	22 ^h 2	25 ^h 0	27 ^h 6	30 ^h 4	6. 57. 14 ^h 47		14 ^h 96				6. 57. 59 ^h 47	- 4 ^h 09	
	11	ζ Geminorum	B	...	...	...	...	...	...	23 ^h 4	26 ^h 0	28 ^h 7	31 ^h 5	6. 57. 15 ^h 59		16 ^h 08	0 ^h 50	44 ^h 42		6. 58. 0 ^h 59	- 4 ^h 09	
	12	17 Lynceis	B	10 ^h 1	15 ^h 1	20 ^h 3	30 ^h 4	35 ^h 5	40 ^h 6	55 ^h 8	0 ^h 9	6 ^h 0	11 ^h 1	6. 59. 40 ^h 66		40 ^h 76				7. 0. 25 ^h 27	- 6 ^h 54	
	13	Piazzi VI. 310 ...	B	16 ^h 9	22 ^h 0	27 ^h 1	37 ^h 2	42 ^h 1	47 ^h 5	2 ^h 4	7 ^h 5	12 ^h 7	18 ^h 0	6. 59. 47 ^h 42		47 ^h 52				7. 0. 32 ^h 03	- 6 ^h 54	
	14	Lalande F. 1006 ..	B	...	...	...	0 ^h 8	16 ^h 6	32 ^h 1	17 ^h 5	...	...	...	7. 4. 32 ^h 08		31 ^h 15				7. 5. 15 ^h 66	- 14 ^h 44	
	15	* N.P.D. 67 ^o 49 ^h ..	B	57 ^h 4	0 ^h 0	2 ^h 9	...	...	...	...	24 ^h 0	26 ^h 7	29 ^h 5	7. 13. 13 ^h 45		13 ^h 93				7. 13. 58 ^h 44	- 4 ^h 06	
	16	δ Geminorum	B	...	...	...	8 ^h 3	11 ^h 0	13 ^h 6	21 ^h 6	...	...	...	7. 13. 13 ^h 67		14 ^h 15	58 ^h 75	44 ^h 60		7. 13. 58 ^h 66	- 4 ^h 06	
	17	Piazzi VII. 103 ...	B	45 ^h 9	48 ^h 7	51 ^h 6	57 ^h 4	0 ^h 0	3 ^h 1	11 ^h 5	14 ^h 5	17 ^h 1	20 ^h 0	7. 19. 3 ^h 02		3 ^h 86				7. 19. 48 ^h 37	- 2 ^h 67	
	18	η Canis Majoris ...	B	59 ^h 2	2 ^h 0	5 ^h 0	10 ^h 3	13 ^h 3	16 ^h 1	24 ^h 5	27 ^h 2	30 ^h 0	33 ^h 1	7. 19. 16 ^h 11		16 ^h 95				7. 20. 1 ^h 46	- 2 ^h 66	
	19	Lalande F. 1705-6	B	...	...	14 ^h 7	49 ^h 6	7 ^h 2	25 ^h 6	17 ^h 1	34 ^h 9	...	...	7. 26. 25 ^h 20		24 ^h 08				7. 27. 8 ^h 60	- 15 ^h 21	
	20	λ Ursæ Min. S.P.	B	19 ^h 6	25 ^h 7	31 ^h 6	37 ^h 8	57 ^h 5	4 ^h 0	12 ^h 1	32 ^h 4	45 ^h 1	58 ^h 6	7. 24. 30 ^h 14		43 ^h 43	26 ^h 41	42 ^h 98		19. 25. 27 ^h 95	+ 9 ^h 37	
	21	Groombridge 1323	B	...	...	...	...	53 ^h 9	4 ^h 0	33 ^h 7	43 ^h 8	53 ^h 7	4 ^h 4	7. 28. 3 ^h 94		3 ^h 54				7. 28. 48 ^h 06	- 9 ^h 89	
	22	Groombridge 1333	B	...	...	...	...	...	...	34 ^h 4	38 ^h 7	43 ^h 2	9 ^h 3	7. 29. 17 ^h 14		17 ^h 33				7. 30. 1 ^h 85	- 5 ^h 64	
	23	B. A. C. 2511	B	...	...	...	...	...	...	30 ^h 6	33 ^h 5	48 ^h 6	4 ^h 0	7. 31. 18 ^h 12		18 ^h 83				7. 32. 3 ^h 35	- 2 ^h 99	
	24	Lalande F. 1094 ...	B	6 ^h 2	20 ^h 8	34 ^h 3	48 ^h 9	16 ^h 2	30 ^h 9	44 ^h 5	58 ^h 8	...	...	7. 40. 2 ^h 58		0 ^h 50				7. 40. 45 ^h 02	- 21 ^h 56	
	25	ξ Argûs	B	56 ^h 2	58 ^h 9	1 ^h 6	6 ^h 9	9 ^h 8	12 ^h 5	20 ^h 5	23 ^h 2	26 ^h 0	28 ^h 9	7. 44. 12 ^h 49		13 ^h 29	57 ^h 82	44 ^h 53		7. 44. 57 ^h 81	- 2 ^h 65	
	26	ξ Argûs (E&E)	B	25 ^h 9	42 ^h 6	58 ^h 8	14 ^h 9	31 ^h 1	47 ^h 3	3 ^h 6	...	...	...	7. 44. 12 ^h 50		13 ^h 30	57 ^h 82	44 ^h 52		.....		
	27	Lalande 15352 ...	B	59 ^h 5	2 ^h 0	4 ^h 4	9 ^h 5	12 ^h 0	14 ^h 5	21 ^h 9	24 ^h 4	26 ^h 9	29 ^h 5	7. 46. 14 ^h 50		15 ^h 17				7. 46. 59 ^h 69	- 3 ^h 05	
	28	Piazzi VII. 187 ...	B	...	...	...	...	25 ^h 6	39 ^h 5	53 ^h 9	35 ^h 1	...	...	7. 47. 53 ^h 82		53 ^h 05				7. 48. 37 ^h 57	- 11 ^h 94	
	29	Oeltz. Arg. (N.) 8381	B	53 ^h 1	3 ^h 6	14 ^h 4	36 ^h 1	46 ^h 3	58 ^h 0	30 ^h 0	40 ^h 7	52 ^h 0	2 ^h 9	7. 49. 57 ^h 87		57 ^h 39				7. 50. 41 ^h 91	- 9 ^h 84	
	30	Oeltz. Arg. (S.) 7742	B	59 ^h 5	2 ^h 0	4 ^h 5	9 ^h 8	12 ^h 1	14 ^h 9	22 ^h 4	24 ^h 9	27 ^h 5	30 ^h 1	7. 53. 14 ^h 81		15 ^h 53				7. 54. 0 ^h 05	- 2 ^h 84	
	31	6 Cancri	B	10 ^h 0	12 ^h 8	15 ^h 7	21 ^h 1	24 ^h 0	26 ^h 9	35 ^h 1	38 ^h 0	40 ^h 7	43 ^h 6	7. 56. 26 ^h 83		27 ^h 27	11 ^h 82	44 ^h 55		7. 57. 11 ^h 79	- 3 ^h 97	
	32	ρ Argûs	B	7 ^h 9	10 ^h 5	13 ^h 3	18 ^h 6	21 ^h 4	24 ^h 1	32 ^h 1	34 ^h 7	37 ^h 5	40 ^h 2	8. 2. 24 ^h 07		24 ^h 86	9 ^h 40	44 ^h 54		8. 3. 9 ^h 38	- 2 ^h 56	
	33	ρ Argûs (E&E)	B	37 ^h 6	53 ^h 7	10 ^h 2	26 ^h 5	42 ^h 8	58 ^h 9	15 ^h 1	...	...	...	8. 2. 24 ^h 02		24 ^h 81	9 ^h 40	44 ^h 59		.....		
	34	β Leonis	B	47 ^h 1	49 ^h 6	52 ^h 1	57 ^h 3	0 ^h 0	2 ^h 4	10 ^h 0	12 ^h 5	15 ^h 1	17 ^h 8	11. 43. 2 ^h 43		2 ^h 95	47 ^h 43	44 ^h 48		11. 43. 47 ^h 50	- 2 ^h 19	
	35	β Virginis	B	18 ^h 8	21 ^h 2	23 ^h 8	28 ^h 6	31 ^h 1	33 ^h 7	41 ^h 0	43 ^h 5	46 ^h 0	48 ^h 5	11. 44. 33 ^h 66		34 ^h 26	18 ^h 80	44 ^h 54		11. 45. 18 ^h 81	- 2 ^h 16	
Oct. 25	36	δ Ursæ Minoris ...	B	56 ^h 1	4 ^h 2	13 ^h 0	21 ^h 3	29 ^h 8	46 ^h 6	54 ^h 9	3 ^h 8	12 ^h 1	20 ^h 2	18. 4. 38 ^h 20		34 ^h 83	18 ^h 87	44 ^h 04		18. 5. 19 ^h 43	+ 31 ^h 78	
	37	η Serpentis	B	58 ^h 1	0 ^h 5	3 ^h 0	7 ^h 9	10 ^h 3	12 ^h 9	20 ^h 2	22 ^h 6	25 ^h 1	27 ^h 8	18. 15. 12 ^h 88		13 ^h 52	58 ^h 09	44 ^h 57		18. 15. 58 ^h 12	- 2 ^h 46	
	38	β^1 Lyrae	B	...	...	...	19 ^h 1	24 ^h 9	28 ^h 0	30 ^h 9	39 ^h 8	42 ^h 6	...	18. 45. 30 ^h 93		31 ^h 32	15 ^h 93	44 ^h 61		18. 46. 15 ^h 92	- 1 ^h 54	
	39	Cephei 51 S.P. ...	B																			

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Oct. 25	1	Piazzi V. 41	R	30.4	33.2	36.1	41.6	44.3	47.4	55.6	58.5	1.1	4.1	5.13.47.27	+ 2.18	47.71			44.59	5.14.32.33	- 4.80	
	2	Neptune	R	58.2	0.9	3.5	8.8	11.5	14.1	22.0	24.7	27.4	30.1	5.16.14.16	(+ 0.03)	14.64			[+ 0.15]	5.16.59.26		
	3	D 2 L.	R	18.1	21.0	24.0	29.6	32.5	35.4	43.7	46.6	49.7	52.5	5.25.35.35	[+ 9.01]	35.79				5.25.9.97		
	4	κ Orionis	R	52.7	55.3	57.9	2.7	5.2	8.0	15.1	17.8	20.2	22.7	5.42.7.80		8.48	53.11	44.63		.....		
	5	κ Orionis... (E&E)	R	26.2	41.3	...	...	...	41.5	56.5	...	...	...	5.42.7.71		8.39	53.11	44.72		.....		
	6	139 Tauri	R	35.6	38.1	41.1	46.5	49.1	52.0	0.1	2.9	5.7	8.5	5.50.52.00		52.45				5.51.37.08	- 4.62	
	7	δ Ursæ Min. S.P. ..	R	49.1	2.0	12.6	23.0	33.5	42.7	51.9	59.9	9.1	20.4	6.4.30.40		34.70	18.66	43.96		18.5.19.33	+ 31.99	
	8	β Leonis	B	47.0	...	52.0	57.1	59.6	2.1	9.9	12.4	...	17.6	11.43.2.25		2.77	47.45	44.68	44.60	11.43.47.44	- 2.21	
	9	β Virginis	B	...	...	...	...	...	33.6	40.9	43.4	45.9	48.4	11.44.33.59		34.19	18.82	44.63		11.45.18.86	- 2.18	
	10	ε Virginis	B	...	...	...	11.5	14.0	16.5	24.0	...	...	...	12.56.16.55	+ 2.44	17.12	1.87	44.75		12.57.1.80	- 1.90	
	11	Mercury 2 L.	C	0.8	3.2	5.7	10.7	13.1	15.7	23.1	25.4	28.0	30.6	12.59.15.67	(+ 0.10)	16.33			44.58	13.0.0.77		
	12	Polaris S.P.	C	51.5	4.1	12.0	20.5	27.3	36.1	43.6	52.6	1.4	11.4	13.21.0.91		10.91				1.21.55.57	- 60.98	
Oct. 26	13	☉ i L.	C	14.9	17.6	20.6	24.9	27.7	30.1	37.5	40.0	42.8	45.5	14.3.30.20		30.92				14.5.21.89		
	14	Arcturus	C	55.7	58.2	0.9	6.1	8.6	11.5	19.2	21.9	24.5	27.1	14.10.11.41		11.92	56.59	44.67		14.10.56.59	- 1.56	
	15	Venus i L.	C	57.0	59.7	...	7.5	10.1	12.9	20.7	...	26.1	29.1	15.59.12.93		13.71				15.59.58.86		
	16	α Ophiuchi	C	8.0	10.3	12.9	18.0	20.5	23.1	30.5	33.1	35.7	38.1	17.29.23.06		23.62	8.26	44.64		17.30.8.31	- 1.91	
	17	μ Herculis	C	22.8	25.5	28.2	33.9	36.7	39.5	47.9	50.6	53.4	56.2	17.41.39.51		39.97	24.69	44.72		17.42.24.66	- 1.45	
	18	δ Ursæ Minoris ...	C	44.2	15.3	44.7	53.0	0.8	8.4	14.9	22.8	30.8	41.5	18.4.37.93		34.91	18.44	43.53		18.5.19.60	+ 32.21	
	19	η Serpentis	B	58.0	0.2	2.9	7.9	10.1	12.7	20.0	22.4	25.1	27.7	18.15.12.74		13.39	58.08	44.69	44.60	18.15.58.10	- 2.45	
	20	Cephei 51 S.P. ...	C	31.4	53.2	15.9	25.1	34.0	55.6	4.7	14.2	40.9	49.5	18.51.38.46		43.16			44.58	6.52.27.86	- 42.55	
	21	ζ Aquilæ	C	39.4	42.0	44.5	...	...	54.6	...	4.9	7.4	10.0	18.59.54.72		55.28	40.03	44.75		19.0.39.98	- 2.27	
	22	ω Aquilæ	C	58.0	0.7	3.1	8.0	10.5	13.2	20.6	23.1	25.6	28.2	19.12.13.14		13.71	58.46	44.75		19.12.58.41	- 2.41	
	23	δ Aquilæ	C	17.8	20.1	22.9	27.8	30.1	32.6	40.0	42.5	44.9	47.3	19.19.32.64		33.25	17.92	44.67		19.20.17.95	- 2.67	
	24	λ Ursæ Minoris ..	C	46.8	4.6	58.2	30.2	43.5	54.5	4.7	42.2	56.8	10.1	19.24.52.39		41.23				19.25.25.93	+ 95.68	
	25	Groomb. 1119 S.P. R.	C	18.0	37.9	54.1	40.1	2.0	12.5	22.2	16.0	30.0	41.1	19.54.17.62		29.77				7.55.14.47	- 88.44	
	26	Groomb. 1119 S.P. ...	C	53.2	14.0	38.0	5.4	57.1	12.9	29.0	4.4	27.1	42.5	19.54.17.94		29.53				7.55.14.23	- 88.44	
	27	θ Capricorni	AC	...	...	...	...	32.0	34.5	37.2	39.9	55.4	10.8	20.59.24.31		25.07	9.79	44.72	44.62	.....		
	28	ζ Cygni	AC	...	33.7	36.5	42.2	45.1	48.0	56.5	59.5	2.0	...	21.7.47.99		48.44	33.22	44.78		.....		
	29	ζ Cygni ... (E&E)	AC	1.2	18.2	35.5	...	9.6	26.4	43.8	...	...	...	21.7.47.93		48.38	33.22	44.84		.....		
	30	16 Pegasi	C	21.2	...	26.9	32.4	34.7	37.6	45.5	48.4	...	54.0	21.47.37.63		38.11	22.78	44.67	44.58	21.48.22.83	- 3.06	
	31	ι Pegasi	C	...	...	...	22.7	25.4	28.1	36.0	38.9	41.8	44.4	22.1.28.13		28.62	13.30	44.68		22.2.13.34	- 3.20	
	32	θ Aquarii	C	24.2	...	29.1	34.0	36.5	39.0	46.1	49.0	...	54.0	22.10.39.03		39.71	24.55	44.84		22.11.24.43	- 3.84	
	33	Bradley 1439 S.P. C	...	...	...	...	...	52.9	5.5	42.6	57.0	12.2	22.24.37.45		39.22				10.25.23.94	- 5.21		
	34	ζ Pegasi	C	20.0	22.1	24.9	30.0	32.2	34.9	42.2	44.6	47.4	50.0	22.35.34.87		35.45	20.08	44.63		22.36.20.17	- 3.63	
	35	ε Virginis	EB	1.4	4.0	6.4	11.5	14.0	16.5	24.0	26.7	29.2	31.7	12.56.16.58		17.15	1.89	44.74	44.66	12.57.1.89	- 1.90	
	36	Mercury 2 L.	EB	37.1	39.6	42.1	47.0	49.4	52.0	59.4	1.9	4.4	6.9	13.3.52.02		52.68			[+ 0.15]	13.4.37.21		
	37	Polaris S.P.	EB	20.1	28.4	36.3	58.5	5.5	11.3	31.4	38.2	51.7	2.2	13.20.59.93		9.93	54.76	44.83		1.21.54.67	- 60.91	
	38	η Bootis	EB	44.7	47.3	50.0	55.1	57.6	0.3	8.1	10.8	13.5	16.2	13.49.0.40		0.92	45.64	44.72		13.49.45.67	- 1.70	
Oct. 27	39	α Serpentis	EB	10.1	12.6	15.2	...	...	...	...	...	...	...	15.38.25.07		25.65	10.45	44.80		15.39.10.41	- 1.78	
	40	Venus i L.	EB	6.1	8.8	11.6	16.8	19.4	22.1	30.1	32.6	35.4	38.1	16.4.22.14		22.92				16.5.8.15		
	41	γ Herculis	W	...	22.9	25.6	30.7	33.4	36.1	43.9	46.5	49.1	...	16.16.36.08		36.60	21.40	44.80	44.72	.....		
	42	ζ Herculis	W	20.1	23.1	26.1	32.0	34.9	37.9	46.4	49.3	52.1	55.1	16.36.37.74		38.18	23.02	44.84		.....		
	43	κ Ophiuchi	EB	46.2	48.7	51.2	56.1	58.8	1.2	8.5	11.1	13.6	16.1	16.52.1.19		1.76	46.51	44.75	44.66	16.52.46.53	- 1.84	
	44	α Herculis	EB	55.4	58.0	0.6	5.6	8.1	10.8	18.2	20.9	23.5	26.0	17.9.10.75		11.30	56.03	44.73		17.9.56.07	- 1.77	
	45	α Ophiuchi	EB	7.7	10.2	12.9	18.0	20.4	22.9	30.5	33.0	35.5	38.1	17.29.22.96		23.52	8.25	44.73		17.30.8.29	- 1.90	
	46	β Ophiuchi	EB	22.0	24.3	26.9	31.9	34.2	36.9	44.1	46.7	49.0	51.6	17.37.36.80		37.40	22.17	44.77		17.38.22.17	- 2.13	
	47	μ Herculis	EB	22.7	25.4	28.2	33.9	36.5	39.5	47.8	50.5	53.4	56.2	17.41.39.45		39.91	24.68	44.77		17.42.24.68	- 1.44	
	48	72 Ophiuchi	HF	26.9	29.4	32.0	36.9	39.4	42.0	49.3	52.0	54.4	57.0	18.1.41.97		42.54	27.20	44.66	44.55	.....		
	49	δ Ursæ Minoris ...	EB	16.0	19.9	24.1	28.0	31.9	40.1	44.8	48.8	52.1	56.9	18.4.36.26		33.24			44.66	18.5.18.01	+ 32.63	
	50	η Serpentis	EB	58.0	0.2	2.8	7.9	...	12.9	...	...	...	27.6	18.15.12.77		13.42	58.07	44.65		18.15.58.19	- 2.44	
	51	109 Herculis	EB	...	...	22.0	27.1	29.9	32.6	40.2	43.1	...	...	18.18.32.53		33.03				18.19.17.80	- 1.82	
	52	α Lyre	EB	22.1	25.1	28.4	34.6	37.8	41.1	50.4	53.6	56.7	0.0	18.32.41.03		41.42	26.22	44.80		18.33.26.20	- 1.21	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 5 and 29, — 63.72 and — 64.55.
Corrections for passage of Semidiameter, Nos. 3, 11, 13, 15, 36 and 40, — 70.46 : — 0.22 : + 66.30 : + 0.47 : — 0.21 : and + 0.47.

3. Correction to R.A. on true meridian, + 0.02.

7. Observed over wire X with the transit-micrometer set to readings 36.1302, 36.1013, 35.7769, 35.502, 35.261, 35.037, 34.850, 34.630, 34.400, 34.158.

10, 13, 15, 19. Cloudy.

12. Observed over wire W with the transit-micrometer set to readings 35.7969, 35.7895, 35.7775, 35.7695, 35.762, 35.752, 35.7416, 35.7346, 35.7242.

18. Observed over wire Q with the transit-micrometer set to readings 35.7438, 35.7368, 35.7320, 35.7258, 35.7205, 35.7189, 35.7147, 35.7104, 35.7061, 35.7018.

20. Observed over wire U with the transit-micrometer set to readings 37.7530, 37.7469, 37.7459, 37.7420, 37.7372, 37.7324, 37.7280, 37.7237, 37.7194, 37.7151.

24. Observed over wire T with the transit-micrometer set to readings 34.7228, 34.7192, 34.7157, 34.7122, 34.7087, 34.7052, 34.7017, 34.6982, 34.6947, 34.6912.

25. Observed over wire V with the transit-micrometer set to readings 37.7500, 37.7422, 37.7392, 37.7358, 37.7324, 37.7290, 37.7256, 37.7222, 37.7188, 37.7154.

26. Observed over wire T with the transit-micrometer set to readings 36.7253, 36.7052, 35.7922, 35.7678, 35.7305, 35.7192, 35.7065, 34.7800, 34.7625, 34.7530.

27. Observed over wires U, V, W, X, Y and Z.

39. Very tremulous. Observed over wire V with the transit-micrometer set to readings 36.7183, 36.7122, 3

MONT and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Level].	[Azimuth].						
Oct. 27	1	111 Herculis.....	EB	26'9	29'4	32'0	37'3	39'8	42'4	50'1	52'9	55'4	58'0	18. 41. 42'46	+ 2'44	42'99			44'66	18. 42. 27'77	- 2'04	
2	β ¹ Lyræ.....	EB	13'0	16'0	18'9	24'9	27'6	30'9	39'5	42'5	45'4	48'4	18. 45. 30'75	(+ 0'10)	31'17	15'89	44'72	[+ 0'15]	18. 46. 15'95	- 1'50		
3	Cephei 51 S.P....	EB	13'8	19'0	22'9	27'4	32'1	44'0	49'1	53'8	58'8	4'5	18. 51. 38'54	[+ 9'01]	43'24	28'46	45'22		6. 52. 28'02	- 43'13		
4	12 Aquilæ.....	EB	...	...	...	...	...	24'9	32'2	34'8	37'3	39'8	18. 55. 24'91		25'57				18. 56. 10'35	- 2'74		
5	ζ Aquilæ.....	EB	39'4	42'0	44'5	49'7	52'1	54'7	2'1	4'7	7'4	10'0	18. 59. 54'70		55'26	40'02	44'76		19. 0. 40'04	- 2'26		
6	Groombridge 3548	EB	59'8	8'8	16'5	40'9	49'9	5'5	12'1	19'6	36'6	43'4	21. 19. 25'87		22'85				21. 20. 7'64	+ 12'91		
7	79 Draconis.....	EB	...	...	...	...	...	50'2	15'6	24'1	32'9	41'9	21. 50. 50'33		50'15				21. 51. 34'95	- 0'95		
8	Piazzi XXII. 15...	EB	52'5	55'1	57'8	2'6	5'2	8'1	15'6	18'1	20'7	23'4	22. 6. 7'95		8'49				22. 6. 53'29	- 3'37		
9	θ Aquarii.....	EB	24'0	26'5	29'1	34'0	36'4	39'1	46'4	48'9	51'5	54'0	22. 10. 39'03		39'71	24'54	44'83		22. 11. 24'51	- 3'83		
10	Groomb. 3887...R.	EB	55'6	10'4	27'1	57'4	13'3	29'1	...	...	...	...	22. 38. 28'86		27'98				22. 39. 12'78	- 1'73		
11	μ Pegasi.....	EB	0'9	3'5	6'1	11'6	14'3	17'3	25'0	28'0	30'5	33'4	22. 44. 17'10		17'59	2'46	44'87		22. 45. 2'39	- 3'51		
12	α Andromedæ.....	EB	6'3	9'9	13'1	19'8	23'0	26'3	30'0	39'5	42'9	46'1	22. 56. 26'34		26'68				22. 57. 11'48	- 3'40		
13	Radcliffe 5953 ...	EB	...	...	10'0	28'7	38'5	48'6	16'1	25'6	...	...	22. 59. 48'11		47'84				23. 0. 32'64	- 3'12		
14	Oeltz. Arg. (N.) 11509 S.P.	EB	...	15'4	22'1	29'1	49'6	56'5	3'3	...	...	...	23. 4. 49'42		50'39				11. 5. 35'19	- 2'91		
15	Piazzi XI. 43 S.P....R.	EB	22'5	28'6	34'3	40'1	57'5	3'5	9'1	...	...	...	23. 15. 57'46		58'35				11. 16. 43'16	- 2'63		
16	Groomb. 1782 S.P.	EB	...	...	...	54'4	44'8	2'4	19'7	...	...	...	23. 23. 44'97		46'85				11. 24. 31'66	- 1'63		
17	Bradley 3147.....	EB	21'5	32'1	50'1	56'9	6'0	36'4	44'0	51'5	9'5	18'6	23. 27. 15'77		12'63				23. 27. 57'44	- 7'41		
18	79 Pegasi.....	EB	25'3	28'0	30'9	36'5	39'3	42'1	50'5	53'3	56'1	58'9	23. 43. 42'13		42'60				23. 44. 27'41	- 3'90		
19	Groombridge 4187	EB	...	...	...	56'1	0'0	4'1	16'5	20'4	24'6	28'7	23. 53. 4'27		4'53				23. 53. 49'34	- 4'07		
20	Radcliffe 2790 S.P.	EB	...	...	...	16'2	35'5	53'6	30'2	48'6	7'0	23'5	23. 57. 16'65		18'64				11. 58. 3'45	+ 0'78		
21	α Andromedæ.....	EB	2'5	5'3	8'1	13'6	16'3	19'4	27'9	30'4	33'4	36'2	0. 2. 19'35		19'81	4'66	44'85	44'81	0. 3. 4'62	- 4'04		
22	B. D. + 75° No. 6..	EB	59'0	8'8	18'9	38'5	48'5	58'6	...	...	...	...	0. 10. 58'52		58'19				0. 11. 43'00	- 5'74		
23	43 Piscium.....	EB	18'5	21'1	23'8	28'8	31'2	33'9	41'4	44'0	46'3	49'1	0. 18. 33'85		34'41				0. 19. 19'22	- 4'14		
24	Groomb. 1896 S.P.	EB	45'8	49'8	...	57'8	9'6	13'6	17'6	...	30'2	33'6	0. 24. 9'69		10'37				12. 24. 55'18	- 1'75		
25	Groomb. 1913 S.P.	EB	...	...	30'9	35'8	50'5	55'6	0'6	10'2	...	...	0. 33. 50'50		51'29				12. 34. 36'10	- 1'32		
26	* N.P.D. 35° 37'..	EB	...	...	...	...	...	27'8	31'8	36'0	40'1	...	0. 39. 14'94		15'18				0. 39. 59'99	- 4'73		
27	20 Ceti.....	EB	45'5	48'0	50'5	55'2	57'7	0'3	7'6	10'0	12'5	15'1	0. 47. 0'28		0'92	45'78	44'86		0. 47. 45'73	- 4'28		
28	Bradley 1726 S.P.	EB	34'0	38'1	42'7	46'9	...	...	...	...	...	...	0. 50. 59'53		0'24				12. 51. 45'06	- 1'32		
29	* N.P.D. 35° 18' S.P.	EB	...	...	...	...	59'8	4'0	8'5	16'9	21'5	25'5	0. 50. 59'85		0'56				12. 51. 45'38	- 1'32		
30	ε Piscium.....	EB	36'5	39'1	41'5	46'4	48'9	51'5	58'9	1'4	4'0	6'3	0. 56. 51'49		52'07	36'93	44'86		0. 57. 36'89	- 4'28		
31	ζ ¹ Piscium.....	S	21'8	24'2	26'9	31'7	34'1	36'8	44'1	46'5	49'1	51'6	1. 7. 36'72		37'30	22'06	44'76	44'73	.....			
32	ζ ² Piscium.....	S	23'2	25'7	...	33'1	35'6	38'2	45'5	...	50'5	53'1	1. 7. 38'15		38'73				1. 8. 23'47	- 4'33		
33	Polaris.....	EB	20'9	33'4	42'9	56'6	7'5	30'9	41'6	53'3	5'0	15'2	1. 21. 18'73		9'67	54'71	45'04	44'81	1. 21. 54'49	- 60'86		
34	α Arietis.....	EB	43'5	46'1	48'9	53'8	56'4	59'3	6'9	9'4	12'0	14'8	1. 50. 59'15		59'68				1. 51. 44'50	- 4'51		
35	50 Cassiopeiæ.....	EB	...	...	...	40'0	48'0	56'1	19'9	...	...	...	1. 53. 56'17		56'04				1. 54. 40'86	- 7'86		
36	Groomb. 2074 S.P.	EB	...	...	...	17'1	37'0	44'0	51'0	...	...	...	1. 57. 37'13		38'11				13. 58. 22'93	+ 1'14		
37	α Arietis.....	S	21'9	24'4	27'1	32'4	35'1	38'0	46'0	48'7	51'4	54'1	2. 0. 37'95		38'45	23'16	44'71	44'73	.....			
38	Radcliffe 3149 S.P.	EB	...	0'4	10'9	20'5	48'8	...	...	...	...	...	2. 3. 48'89		50'11				14. 4. 34'93	+ 2'99		
39	3 Ursæ Min. S.P..	EB	20'4	30'2	40'0	49'9	...	...	...	...	...	...	2. 5. 18'05		19'27				14. 6. 4'09	+ 2'98		
40	Groombridge 474	EB	...	...	...	...	...	...	3'8	7'9	12'0	16'0	2. 7. 51'08		52'24				2. 8. 37'06	- 5'59		
41	Groombridge 489	EB	...	...	...	25'5	28'9	32'4	42'1	...	...	...	2. 10. 32'30		32'66				2. 11. 17'48	- 5'13		
42	ζ ² Ceti.....	EB	41'9	44'1	46'8	51'7	54'1	56'7	4'1	6'8	9'0	11'6	2. 21. 56'72		57'30	42'12	44'82		2. 22. 42'12	- 4'46		
43	ζ ¹ Ceti.....(E&E)	EB	18'0	32'9	...	...	...	32'9	47'7	...	...	...	2. 21. 56'69		57'27	42'12	44'85		.....			
44	ν Ceti.....	EB	29'0	31'4	34'0	38'8	41'3	43'9	51'2	53'7	56'1	58'7	2. 29. 43'85		44'44	29'33	44'89		2. 30. 29'27	- 4'44		
45	ν Ceti.....(E&E)	EB	5'4	20'1	...	...	...	19'7	34'6	...	...	...	2. 29. 43'76		44'35	29'33	44'98		.....			
46	37 Geminorum....	AC	57'5	0'0	2'9	8'3	11'1	13'9	22'0	24'8	27'6	30'2	6. 48. 13'87		14'35				6. 48. 59'50	- 4'41		
47	Cephei 51.....	AC	14'8	21'4	29'6	37'5	10'0	18'1	24'4	30'4	10'4	16'9	6. 51. 48'12		44'38	28'74	44'36	45'11	6. 52. 29'53	- 43'41		
48	R Geminorum....	AC	8'5	11'0	13'5	19'1	21'8	24'4	32'6	35'1	37'6	40'2	7. 0. 24'42		24'92				7. 1. 10'07	- 4'26		
49	47 Geminorum....	AC	58'1	0'9	3'6	9'1	12'0	15'0	23'0	26'0	28'7	31'7	7. 4. 14'85		15'32				7. 5. 0'47	- 4'38		
50	* N.P.D. 81° 5'...	AC	34'9	37'5	40'1	44'9	47'5	50'0	57'2	59'8	2'2	5'1	7. 8. 49'96		50'54				7. 9. 35'69	- 3'80		
51	Groomb. 2806 S.P.	AC	50'0	53'6	58'1	2'8	15'6	20'0	24'3	33'2	37'2	41'6	7. 12. 15'58		16'30				19. 13. 1'46	- 0'31		
52	δ 2 L.....	AC	19'9	22'6	25'5	31'0	33'6	36'6	44'9	47'6	50'4	53'3	7. 20. 36'58		37'07				7. 20. 11'83			
53	λ Ursæ Min. S.P..	AC	8'3	14'2	20'5	29'4	51'5	58'0	4'0	12'8	...	...	7. 24. 25'72		37'83	21'77	43'94		19. 25. 22'99	+ 98'01		
54	Groomb. 2864 S.P.	AC	47'1	51'6	55'9	0'1	12'9	17'5	21'6	30'2	34'6	38'9	7. 27. 12'97		13'68				19. 27. 58'84	- 0'44		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 43 and 45, — 66° 24 and — 66° 24.
Correction for passage of Semidiameter, No. 52, — 70° 42.

3. Observed over wire T with the transit-micrometer set to readings 36° 100, 36° 000, 35° 900, 35° 800, 35° 700, 35° 500, 35° 400, 35° 300, 35° 200, 35° 100.
6. Observed over wire U with the transit-micrometer set to readings 34° 880, 35° 122, 35° 302, 35° 859, 36° 080, 36° 463, 36° 622, 36° 798, 37° 200, 37° 343.
17. Observed over wire T with the transit-micrometer set to readings 34° 366, 34° 605, 35° 004, 35° 169, 35° 380, 36° 068, 36° 240, 36° 430, 36° 830, 37° 020.
24. Observed in partially illuminated field.
33. Observed over wire T with the transit-micrometer set to readings 35° 100, 35° 200, 35° 300, 35° 400, 35° 500, 35° 700, 35° 800, 35° 900, 36° 000, 36° 100.
- 39, 48, 50. Observed in dark field with wires illuminated.
47. Observed over wire T with the transit-micrometer set to readings 33° 770, 33° 865, 34° 050, 34° 195, 34° 861, 35° 020, 35° 130, 35° 255, 36° 046, 36° 165.
52. Correction to R.A. on true meridian, + 0° 02.
53. Observed over wire P with the transit-micrometer set to readings 36° 021, 35° 955, 35° 889, 35° 845, 35° 688, 35° 645, 35° 612, 35° 565.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890°.		
															Collimation. (Level).	Azimuth.								
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.												h	m	s
Oct. 27	1	Procyon.....	AC	...	56.8	59.3	4.3	6.9	9.3	16.5	19.1	21.6	...	7. 33. 9.28	+ 2.44	9.87	55.08	45.21	45.11	.....				
	2	Pollux	AC	...	1.6	4.5	10.1	12.9	...	24.0	26.8	29.6	...	7. 38. 15.70	(+ 0.10)	16.17	1.31	45.14	[+ 0.15]	.....				
	3	82 Geminorum...	AC	22.8	25.5	28.1	33.5	36.1	39.0	47.0	49.6	52.2	55.1	7. 41. 38.93	[+ 9.01]	39.43				7. 42. 24.59	- 4.03			
	4	Groomb.2945 S.P.	AC	...	11.1	15.8	20.2	33.9	38.5	42.9	52.0	56.2	...	7. 44. 33.74		34.47				19. 45. 19.63	- 0.40			
	5	Oeltz. Arg. (N.) 8381	AC	...	...	...	35.5	46.2	57.4	29.6	...	...	...	7. 49. 57.41		57.02				7. 50. 42.18	- 10.20			
	6	W. B. (2) VII.1457	AC	50.1	52.9	55.7	1.1	3.7	6.5	14.6	17.1	20.0	22.6	7. 54. 6.47		6.96				7. 54. 52.12	- 3.97			
	7	ρ Argus	AC	...	...	...	18.1	20.8	23.6	31.5	34.2	37.0	39.8	8. 2. 23.55		24.36	9.49	45.13		.....				
	8	Groomb.3053 S.P.	AC	...	...	...	...	16.8	21.6	25.5	...	38.5	42.6	8. 4. 16.89		17.61				20. 5. 2.77	- 0.85			
	9	β Cancri	AC	55.1	57.8	0.2	5.1	7.6	10.1	17.8	20.2	22.6	25.3	8. 10. 10.22		10.79	55.94	45.15		.....				
	10	Mercury 2 L.....	RC	28.0	30.4	...	38.0	40.4	42.9	50.2	...	55.3	57.9	13. 8. 42.93		43.59			44.80	13. 9. 28.26				
	11	Polaris S.P.	RC	8.0	14.9	21.4	28.1	45.9	33.4	41.1	47.4	44.4	51.9	13. 21. 0.83		10.84	54.62	43.78	[+ 0.15]	1. 21. 55.72	- 60.77			
	12	Arcturus	RC	55.4	58.0	0.6	5.8	8.5	11.1	...	...	...	...	14. 10. 11.12		11.63	56.60	44.97		14. 10. 56.52	- 1.57			
Oct. 28	13	⊙ 1 L.....	RC	58.1	0.5	3.1	8.1	10.6	13.1	20.9	23.4	26.0	28.5	14. 11. 13.27		20.44				14. 13. 5.33				
	14	⊙ 2 L.....	RC	10.9	13.4	16.0	21.0	23.5	26.1	33.8	36.1	38.8	41.5	14. 13. 26.15										
	15	ε Bootis	B	25.9	28.6	31.5	36.9	39.6	42.5	50.9	53.5	56.2	59.2	14. 39. 42.52		42.98	28.07	45.09	44.94	14. 40. 28.01	- 1.40			
	16	Venus 1 L.....	RC	16.0	18.8	21.6	26.7	29.5	32.1	40.1	42.8	45.5	48.2	16. 9. 32.17		32.96			44.80	16. 10. 18.34				
	17	α Ophiuchi	RC	7.5	10.0	12.5	17.5	20.1	22.7	30.1	32.7	35.3	38.0	17. 29. 22.68		23.24	8.24	45.00		17. 30. 8.15	- 1.89			
	18	β Ophiuchi	RC	21.8	24.1	26.7	31.6	34.1	36.7	44.0	46.3	48.9	51.5	17. 37. 36.61		37.21	22.16	44.95		17. 38. 22.12	- 2.12			
	19	μ Herculis.....	RC	...	...	...	...	36.4	39.3	47.5	50.2	53.0	56.0	17. 41. 39.22		39.68	24.66	44.98		17. 42. 24.59	- 1.42			
	20	δ Ursæ Minoris...	RC	30.0	41.5	53.0	14.1	49.1	0.6	27.2	...	...	...	18. 4. 36.35		33.33	17.61	44.28		18. 5. 18.24	+ 33.04			
	21	α Lyrae	RC	21.8	24.9	28.0	34.2	37.6	40.9	50.1	53.3	56.4	59.8	18. 32. 40.74		41.13	26.20	45.07		18. 33. 26.05	- 1.19			
	22	λ Ursæ Minoris...	B	1.5	7.4	12.0	16.7	33.5	39.0	43.7	53.9	59.7	5.1	19. 24. 47.35		36.19	21.00	44.81	44.94	19. 25. 21.25	+ 98.78			
	23	α Aquilæ	B	44.6	46.9	49.5	54.4	56.9	59.5	6.9	9.4	12.0	14.5	19. 44. 59.50		0.08	45.16	45.08		19. 45. 45.14	- 2.66			
	24	β Aquilæ	B	...	16.9	19.3	24.1	26.7	29.3	36.5	39.1	41.6	...	19. 49. 29.24		29.83	14.94	45.11		19. 50. 14.89	- 2.72			
	25	Groomb.1119 S.P.	B	27.3	48.5	9.0	22.0	29.8	49.6	59.2	28.6	43.9	59.5	19. 54. 14.62		26.21				7. 55. 11.27	- 91.46			
	26	ε Aquarii	B	5.4	7.8	10.2	15.4	18.0	20.5	27.8	30.1	32.9	35.5	20. 41. 20.40		21.09	6.15	45.06		20. 42. 6.16	- 3.40			
	27	ε Aquarii...(E&E)	B	42.3	57.5	12.7	27.8	42.8	57.9	12.8	...	...	...	20. 41. 20.39		21.08	6.15	45.07		.....				
	28	μ Aquarii	B	5.2	7.7	10.1	15.3	17.7	20.2	27.7	30.2	32.8	35.4	20. 46. 20.27		20.96	6.06	45.10		20. 47. 6.03	- 3.42			
	29	μ Aquarii...(E&E)	B	42.5	57.4	12.5	27.6	42.7	57.6	12.7	...	...	...	20. 46. 20.28		20.97	6.06	45.09		.....				
	30	32 Vulpeculæ....	B	8.0	10.6	13.5	19.0	21.6	24.6	32.9	35.6	38.5	41.4	20. 49. 24.61		25.07	10.14	45.07		20. 50. 10.14	- 2.52			
	31	41 Capricorni....	RC	7.6	10.0	12.9	18.0	20.6	23.5	31.7	34.1	36.9	39.8	21. 35. 23.55		24.36			44.80	21. 36. 9.30	- 4.03			
	32	θ Aquarii	RC	23.9	26.4	29.0	34.0	36.2	39.0	46.1	48.7	51.2	53.9	22. 10. 38.88		39.56	24.53	44.97		22. 11. 24.50	- 3.82			
	33	γ Aquarii	RC	20.2	22.9	25.4	30.1	32.8	35.3	42.4	45.1	47.6	50.0	22. 15. 35.22		35.86	20.74	44.88		22. 16. 20.80	- 3.72			
	34	β Lacertæ	RC	21.8	25.8	29.8	37.7	41.7	45.8	57.5	1.5	5.4	9.5	22. 18. 45.71		45.98				22. 19. 30.92	- 2.76			
	35	Groombridge3814	RC	...	...	27.1	...	10.0	25.5	...	...	37.1	...	22. 25. 25.08		24.38				22. 26. 9.32	- 1.03			
	36	Groombridge3887	RC	...	...	...	56.2	12.0	28.0	14.1	...	...	...	22. 38. 27.91		27.11				22. 39. 12.05	- 1.63			
	37	Bradley 3038...R.	RC	...	...	...	33.2	51.1	12.1	8.6	...	...	...	22. 47. 11.65		10.46				22. 47. 55.40	- 1.91			
	38	γ Piscium	B	49.8	52.1	54.6	59.6	2.0	4.5	11.9	14.3	16.9	19.5	23. 11. 4.56		5.17	50.32	45.15	44.94	23. 11. 50.26	- 3.94			
	39	κ Piscium	RC	39.6	42.0	44.5	49.6	52.0	54.5	1.8	4.1	6.8	9.4	23. 20. 54.47		55.09	40.00	44.91	44.80	23. 21. 40.04	- 3.98			
	40	Lalande F.1867-8 S.P.	RC	...	...	...	...	42.9	14.2	11.4	42.4	...	...	23. 23. 12.35		15.31				11. 24. 0.26	- 0.82			
	41	Groombridge4110	RC	...	21.9	26.5	...	40.2	44.9	59.4	3.6	8.5	13.1	23. 32. 45.17		45.36				23. 33. 30.31	- 3.81			
	42	Bradley 3194	RC	...	...	...	50.3	27.1	3.3	52.3	...	...	...	23. 54. 4.01		1.44				23. 54. 46.39	- 10.22			
	43	Groombridge4235	RC	...	...	...	8.0	14.1	21.5	41.6	...	...	...	0. 1. 21.44		21.42			44.95	0. 2. 6.37	- 4.69			
	44	Lalande 799	RC	...	13.6	18.5	28.1	33.5	38.0	52.0	57.4	2.1	...	0. 27. 37.99		38.16				0. 28. 23.11	- 4.74			
	45	Groombridge 210	RC	31.1	39.8	49.9	6.1	15.5	...	...	...	...	...	0. 55. 24.11		23.90				0. 56. 8.86	- 6.79			
	46	Groombridge 212	RC	...	...	...	...	...	...	51.6	58.5	7.0	56.0	0. 55. 30.71		30.66				0. 56. 15.62	- 6.12			
	47	θ Ceti	RC	53.4	55.8	58.2	3.2	5.9	8.3	15.5	18.1	20.6	23.2	1. 18. 8.26		8.94	53.77	44.83		1. 18. 53.90	- 4.34			
	48	Polaris	RC	49.1	1.0	10.4	32.5	42.4	50.9	26.6	36.6	46.0	2.3	1. 21. 18.46		9.40	54.53	45.13		1. 21. 54.36	- 60.68			
	49	A Cassiopeiae	RC	8.2	15.6	22.6	...	...	51.2	...	19.7	26.8	34.1	1. 22. 51.24		51.19				1. 23. 36.15	- 6.76			
	50	ν Piscium	RC	5.0	7.5	10.0	...	...	20.0	...	29.8	32.2	35.1	1. 35. 19.96		20.55	5.41	44.86		1. 36. 5.51	- 4.37			
	51	ο Piscium	RC	58.0	0.3	3.0	8.0	10.4	13.0	20.2	22.9	25.5	28.0	1. 39. 12.97		13.55	58.40	44.85		1. 39. 58.51	- 4.41			
	52	α Orionis	B	35.9	38.2	40.9	45.9	48.5	50.9	58.1	0.5	3.0	5.9	5. 48. 50.82	(+ 0.68)	51.43	36.60	45.17	45.09	5. 49. 36.56	- 4.15			
53	β Aurigæ	B	53.2	56.9	0.1	7.2	10.7	14.2	24.6	28.1	31.8	35.3	5. 51. 14.26		14.65				5. 51. 59.78	- 5.64				

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 27 and 29, — 67^s.33 and — 67^s.33.
Corrections for passage of Semidiameter, Nos. 10 and 16, — 0^s.21 and + 0^s.48.

11. Observed over wire T with the transit-micrometer set to readings 37^r.110, 37^r.062, 36^r.995, 36^r.922, 36^r.782, 35^r.310, 35^r.250, 35^r.108, 34^r.682, 34^r.637.
16. Faint.

20. Very faint; cloudy. Observed over wire Q with the transit-micrometer set to readings 35^r.152, 35^r.411, 35^r.680, 36^r.200, 37^r.009, 37^r.305, 37^r.953.

22. Observed over wire X with the transit-micrometer set to readings 37^r.422, 37^r.475, 37^r.516, 37^r.554, 37^r.661, 37^r.700, 37^r.732, 37^r.810, 37^r.841, 37^r.885.

23, 25. Very faint; hazy.

25. Observed over wire T with the transit-micrometer set to readings 37^r.283, 37^r.165, 36^r.992, 36^r.898, 36^r.825, 36^r.710, 36^r.621, 36^r.387, 36^r.279, 36^r.151.

40, 45, 46. Very faint. 41, 43, 44, 45, 46. Observed in dark field with wires illuminated.

48. Observed over wire Q with the transit-micrometer set to readings 35^r.110, 35^r.220, 35^r.332, 35^r.511, 35^r.609, 35^r.689, 35^r.989, 36^r.079, 36^r.173, 36^r.303.

52, 53. Foggy.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.																																																															
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.																																																																							
				s	s	s	s	s	s	s	s	s	s																																																																							
Oct. 28	1	Mars 1 L.	B	50.4	53.3	56.0	1.3	4.0	6.9	14.6	17.3	20.1	22.9	5. 56. 6.64	+ 2.44	} 7.68	}	45.09 [+ 0.15]	5. 56. 52.81																																																																	
	2	Mars 2 L.	B	51.3	54.1	56.8	2.2	4.9	7.9	15.7	18.2	21.1	24.1	5. 56. 7.67	[+ 0.68]																																																																					
	3	δ Ursæ Min. S.P..	B	58.0	19.1	53.1	8.9	28.0	50.1	2.6	22.0	43.1	57.8	6. 4. 29.03	[+ 9.01]																																																																					
	4	γ Geminorum ...	B	38.8	41.4	44.0	49.5	52.1	54.9	2.6	5.4	8.0	10.9	6. 7. 54.80																																																																						
	5	η Geminorum ...	B	45.1	47.9	50.5	55.8	58.1	0.9	8.4	10.9	13.6	16.1	6. 31. 0.77																																																																						
	6	ε Geminorum ...	B	34.3	37.1	40.0	45.5	48.0	50.9	58.9	1.6	4.5	7.1	6. 36. 50.83																																																																						
	7	θ Geminorum ...	B	57.3	0.2	3.4	9.3	12.2	15.4	24.0	27.1	30.1	33.4	6. 45. 15.28																																																																						
	8	δ Geminorum ...	B	57.2	0.0	2.6	8.0	10.5	13.2	21.1	24.0	26.8	29.4	7. 13. 13.32																																																																						
	9	Procyon.....	B	54.4	56.8	59.4	4.2	6.8	9.4	16.8	19.1	21.7	24.2	7. 33. 9.32																																																																						
	10	Pollux	B	58.9	1.7	4.5	10.0	12.9	15.8	24.0	26.8	29.6	32.5	7. 38. 15.71																																																																						
	11	Piazzi VII. 187...	B	...	...	...	...	...	...	34.9	47.4	2.1	17.0	7. 47. 53.16																																																																						
	12	6 Cancri.....	B	9.6	12.2	15.3	20.9	23.5	26.1	34.7	37.4	40.1	43.1	7. 56. 26.33																																																																						
	13	β Cancri.....	B	...	58.0	0.5	...	...	10.4	...	20.2	22.8	...	8. 10. 10.42																																																																						
	14	δ 2 L.	B	36.9	39.3	42.1	47.8	50.3	53.1	1.3	4.0	6.7	9.5	8. 16. 53.14																																																																						
	15	α Ursæ Majoris...	B	27.3	32.2	37.3	47.7	52.7	58.0	12.9	18.0	23.2	28.6	8. 20. 57.87																																																																						
	16	π Ursæ Majoris...	B	...	59.0	5.0	16.6	22.0	...	...	...	...	...	8. 30. 28.04																																																																						
	17	Arcturus	WS	55.1	57.7	0.5	5.6	8.2	11.0	18.7	21.3	24.0	26.6	14. 10. 10.91																																																																						
Oct. 29	18	⊙ 1 L.....	WS	50.5	53.0	55.6	0.8	3.4	6.0	13.5	16.1	18.6	21.2	14. 15. 5.91	} 13.25	}	45.06 [+ 0.18]	14. 16. 58.42																																																																		
	19	⊙ 2 L.....	WS	...	...	8.9	14.0	16.5	19.1	26.5	29.2	...	...	14. 17. 19.08																																																																						
	20	Venus 1 L.....	WS	27.5	30.1	32.8	38.1	40.9	43.6	51.5	54.1	56.9	59.6	16. 14. 43.55																																																																						
	21	ζ Herculis	B	20.0	22.7	25.8	31.4	34.2	37.4	46.0	48.9	51.8	54.9	16. 36. 37.35						44.36	23.00	45.17	45.06	16. 37. 23.01	- 1.10																																																											
	22	ε Herculis	B	16.7	19.5	22.6	28.1	31.1	34.1	42.6	45.5	48.4	51.4	16. 55. 34.04																																																																						
	23	δ Ursæ Minoris...	WS	45.0	53.1	1.1	9.5	18.1	51.5	59.2	7.5	16.6	25.5	18. 4. 34.71																																																																						
	24	α Lyrae	WS	21.5	24.5	28.0	34.0	37.3	40.5	50.0	52.9	56.2	59.6	18. 32. 40.50												34.52	19.74	45.22	45.06	18. 56. 19.71	- 1.17																																																					
	25	β Lyrae	WS	12.5	15.4	18.2	24.1	27.1	30.1	38.9	42.0	44.9	48.0	18. 45. 30.16																																																																						
	26	Cephei 51 S.P. ...	WS	37.6	44.0	49.8	53.9	59.7	4.0	10.0	33.6	39.5	46.1	18. 51. 39.49																																																																						
	27	ζ Aquilæ	WS	38.9	41.4	44.0	49.1	51.7	54.1	1.8	4.2	6.8	9.5	18. 59. 54.19																		43.59	39.99	45.21	45.06	19. 0. 39.98	- 2.23																																															
	28	1 Vulpeculæ.....	WS	45.1	47.9	50.3	55.8	58.3	1.1	8.9	11.5	14.1	16.9	19. 11. 1.03																																																																						
	29	τ Draconis	WS	...	...	...	...	36.0	45.1	10.1	18.8	27.4	36.0	19. 16. 44.92																																																																						
	30	δ Aquilæ	S	17.4	20.0	22.5	27.1	29.7	32.2	39.5	42.0	44.6	47.4	19. 19. 32.28																								44.87	32.92	17.88	44.95	44.81	19. 17. 30.07	+ 3.17																																								
	31	α Vulpeculæ.....	S	22.9	25.5	28.2	33.7	36.4	39.3	47.2	50.0	52.7	55.5	19. 23. 39.18																																																																						
	32	λ Ursæ Minoris...	WS	6.9	14.5	20.2	25.2	30.1	34.7	42.0	46.0	50.9	56.9	19. 24. 43.16																																																																						
	33	9 Vulpeculæ.....	WS	1.5	4.1	6.9	12.0	14.5	17.3	25.0	27.5	30.3	33.1	19. 29. 17.26																															17.81	40.32	21.41	45.09	45.06	19. 25. 18.94	+ 100.29																																	
	34	10 Vulpeculæ ...	WS	23.5	26.0	28.8	34.2	36.9	39.9	48.0	50.6	53.5	56.2	19. 38. 39.80																																																																						
	35	γ Aquilæ	WS	...	...	...	30.8	33.1	35.9	43.1	45.6	48.1	50.7	19. 40. 35.71																																																																						
	36	β Aquilæ	WS	11.8	14.1	16.9	21.8	24.2	26.8	34.0	36.5	39.0	41.6	19. 49. 26.71																																						20.82	14.92	45.10	45.06	19. 50. 15.03	- 2.70																											
	37	Groomb. 1119 S.P.	WS	53.2	0.8	8.4	12.9	19.3	25.4	29.9	35.1	41.3	47.4	19. 54. 16.94																																																																						
	38	α Capricorni.....	B	55.2	57.6	0.1	5.2	7.9	10.4	18.0	20.4	23.0	25.6	20. 11. 10.38																																																																						
	39	α Capricorni.....	B	19.1	21.7	24.2	29.2	31.9	34.3	42.0	44.4	46.9	49.6	20. 11. 34.37																																												20.11	20.35	45.24	45.06	20. 12. 20.32	- 3.30																					
	40	β Capricorni.....	B	12.0	14.6	17.3	22.2	24.9	27.5	35.1	37.8	40.3	43.0	20. 14. 27.51																																																																						
	41	ε Delphini.....	S	16.6	19.2	21.9	26.7	29.3	32.0	39.4	41.9	44.3	47.0	20. 27. 31.87																																																																						
	42	27 Vulpeculæ ...	S	38.8	41.5	44.2	50.0	52.5	55.5	3.6	6.2	9.1	12.0	20. 31. 55.38																																																		32.48	17.43	44.95	44.81	20. 28. 17.44	- 2.81															
	43	α Delphini.....	S	...	52.7	55.4	0.4	3.0	5.7	13.3	16.0	18.4	...	20. 34. 5.66																																																																						
	44	δ Delphini.....	WS	...	...	...	...	50.5	53.2	0.8	3.5	6.0	8.4	20. 37. 53.22																																																																						
	45	ζ Cygni	R. WS	30.2	33.2	36.1	41.9	44.6	48.0	...	...	...	...	21. 7.47.56																																																								[+ 7.58]	47.95	33.17	45.22	45.06	21. 8. 33.17	- 2.60								
	46	σ Aquarii	WS	11.4	14.0	16.5	21.5	24.0	26.5	34.0	36.6	39.1	41.8	22. 24. 26.58																																																																						
	47	Groombridge 3797	WS	31.7	35.7	39.5	47.0	51.0	54.8	6.1	10.0	14.0	18.0	22. 25. 54.84																																																																						
	48	α Pegasi	WS	52.6	55.2	58.0	2.9	5.6	8.1	16.0	18.5	21.3	24.0	22. 33. 8.26																																																															8.76	55.18	38.45	45.23	45.06	22. 26. 40.41	- 2.88	
	49	α Pegasi	WS	37.4	39.9	42.5	47.8	50.1	52.8	0.1	2.7	5.3	8.0	22. 58. 52.70																																																																						
	50	Lalande F. 1812 S.P.	WS	41.4	48.6	55.3	1.9	21.2	27.8	33.9	47.1	53.8	0.0	23. 2.21.00																																																																						
51	φ Aquarii	WS	...	2.0	4.2	9.4	11.9	14.3	21.6	24.1	26.7	...	23. 8. 14.33	21.67	14.94	47.81	45.24	45.06	23. 9. 0.17																																																																	- 4.02
52	τ Pegasi	WS	31.1	34.0	36.6	42.0	44.5	47.4	55.2	58.0	0.7	3.4	23. 14. 47.33																																																																							
53	κ Piscium	B	39.4	41.9	44.2	49.3	51.6	54.1	1.5	4.0	6.4	9.0	23. 20. 54.18																																																																							

For No. 36. Reading of Transit-Micrometer 34".600.

Corrections for passage of Semidiameter, Nos. 14 and 20, — 69".51 and + 0".48.

1. A correction of — 0".08, for defect of illumination, has been applied in forming the concluded transit.

3. Observed in dark field with wires illuminated over wire T with the transit-micrometer set to readings 37".731, 37".290, 36".459, 36".016, 35".631, 35".145, 34".810, 34".365, 33".840, 33".465.

14. Correction to R.A. on true meridian, + 0".02.

17. Very faint.

20. Extremely faint; scarcely visible.

23. Observed over wire T with the transit-micrometer set to readings 34".400, 34".600, 34".800, 35".000, 35".200, 36".000, 36".400, 36".600, 36".800.

26. Observed over wire U with the transit-micrometer set to readings 36".225, 36".127, 35".995, 35".910, 35".804, 35".717, 35".605, 35".127, 34".995, 34".850.

32. Observed over wire T with the transit-micrometer set to readings 35".790, 35".823, 35".860, 35".905, 35".941, 35".970, 36".018, 36".040, 36".080, 36".125.

37. Observed over wire Q with the transit-micrometer set to readings 35".720, 35".663, 35".615, 35".560, 35".532, 35".491, 35".438, 35".400, 35".353, 35".320.

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TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
															Collimation. (Level). [Azimuth].	#						
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
Oct. 29	1	Lalande F. 1867-8 S.P.	WS	13.3	28.6	43.3	58.5	28.1	42.8	58.1	13.3	...	...	23. 23. 13.25	+ 2.44	15.08			45.06	11. 24. 0.32	- 1.04	
	2	♄ Piscium	WS	39.2	42.0	44.1	49.2	51.5	54.2	1.6	4.1	6.4	9.1	23. 33. 54.18	(+ 0.68)	54.73	39.98	45.25	[+ 0.18]	23. 34. 39.97	- 4.00	
	3	♄ Pegasi.....	WS	14.1	16.9	19.5	24.6	27.3	30.0	37.8	40.2	42.9	45.6	23. 46. 29.93	[+ 7.58]	30.43				23. 47. 15.67	- 3.92	
	4	Groombridge 4187	WS	39.4	43.3	47.4	55.7	59.7	3.7	16.0	20.0	24.1	28.3	23. 53. 3.82		4.15				23. 53. 49.39	- 4.05	
	5	Groombridge 1.....	WS	36.0	39.5	43.1	50.1	54.0	57.4	7.7	11.5	15.0	18.7	0. 3. 57.35		57.72			45.24	0. 4. 42.96	- 4.11	
	6	36 Piscium	WS	16.6	19.1	21.5	...	...	32.0	...	41.1	44.1	46.8	0. 10. 31.72		32.26				0. 11. 17.50	- 4.12	
	7	Bradley 1672 S.P.	WS	31.5	39.2	44.6	52.0	58.0	5.6	11.1	18.4	24.8	30.1	0. 13. 11.69		15.97				12. 14. 1.21	+ 18.53	
	8	28 Andromedæ...	WS	39.5	42.1	45.3	50.8	53.7	56.6	4.9	7.8	10.5	13.5	0. 23. 56.51		56.97				0. 24. 42.21	- 4.18	
	9	Oeltz Arg. (N.) 559	WS	11.5	15.1	19.3	26.6	30.2	34.2	46.7	50.3	54.0	58.1	0. 31. 34.66		35.00				0. 32. 20.24	- 4.51	
	10	β Ceti	WS	24.9	27.7	30.1	35.5	38.0	40.6	48.2	50.9	53.6	56.1	0. 37. 40.60		41.29	26.53	45.24		0. 38. 26.53	- 4.40	
	11	Piazzi O. 162	WS	...	...	...	...	...	...	52.6	57.2	1.5	6.0	0. 38. 40.23		40.54				0. 39. 25.78	- 4.72	
	12	20 Ceti	WS	45.1	47.5	50.1	55.1	57.3	0.0	7.5	10.0	12.2	14.8	0. 47. 0.00		0.59	45.77	45.18		0. 47. 45.84	- 4.28	
	13	W. B. (2) 0.1333-4	WS	18.6	21.4	24.8	30.3	33.9	36.1	...	...	...	...	0. 53. 36.21		36.65				0. 54. 21.90	- 4.40	
	14	Groombridge 228	WS	51.3	85.0	58.5	6.0	9.5	13.4	24.1	27.7	31.2	35.1	0. 57. 13.23		13.60				0. 57. 58.85	- 4.71	
	15	β Andromedæ ...	S	55.2	58.2	1.4	...	...	13.5	...	25.4	28.5	31.7	1. 3. 13.44		13.86	58.95	45.09	44.99	1. 3. 58.86	- 4.52	
	16	B. D. + 58° No. 201	WS	16.6	21.1	26.1	35.5	40.1	45.4	59.5	4.5	9.3	14.5	1. 7. 45.33		45.61			45.24	1. 8. 30.86	- 5.35	
	17	♄ Piscium	WS	29.7	32.0	34.5	39.4	41.9	44.5	51.9	54.1	56.7	59.4	1. 11. 44.45		45.02				1. 12. 30.27	- 4.33	
	18	θ Ceti	S	53.1	56.0	58.4	...	...	8.3	...	18.0	20.4	23.1	1. 18. 8.22		8.84	53.78	44.94	44.99	1. 18. 53.84	- 4.35	
	19	Polaris	WS	49.1	59.9	18.0	23.4	37.1	54.4	1.4	18.8	24.7	39.1	1. 21. 16.16		11.19	54.31	43.12	45.24	1. 21. 56.44	- 60.46	
	20	χ Ceti	WS	31.9	34.4	36.9	41.9	44.2	46.9	54.6	57.1	59.4	2.1	1. 43. 46.98		47.62				1. 44. 32.87	- 4.37	
	21	♄ Arietis	WS	56.3	58.9	1.6	6.9	9.5	12.3	20.0	22.9	25.4	28.1	1. 48. 12.23		12.72	58.10	45.38		1. 48. 57.97	- 4.54	
	22	Carrington 274...	WS	...	...	...	...	...	...	15.8	33.0	51.1	10.5	1. 49. 22.72		22.32				1. 50. 7.57	- 13.69	
	23	ε Trianguli	WS	54.7	57.5	0.6	6.2	9.3	12.3	20.9	23.7	26.9	29.8	1. 56. 12.23		12.66				1. 56. 57.91	- 4.80	
	24	α Arietis	AC	21.3	24.0	26.8	32.0	34.5	37.4	45.2	48.0	50.6	53.5	2. 0. 37.37		37.85	23.17	45.32	45.33	.....		
	25	W. B. (2) I. 1482...	WS	43.3	45.7	48.5	53.6	56.1	59.0	6.4	9.1	11.8	14.1	2. 2. 58.80		59.31			45.24	2. 3. 44.57	- 4.55	
	26	η Arietis	WS	1.6	4.0	6.8	12.1	14.9	17.4	25.1	28.0	30.5	33.2	2. 6. 17.40		17.88				2. 7. 3.14	- 4.62	
	27	ξ Ceti	AC	...	...	...	...	55.1	57.6	0.1	2.6	17.6	32.6	2. 6. 47.70		48.24	33.61	45.37	45.33	.....		
	28	Bradley 332	WS	...	...	...	38.9	45.0	51.4	10.0	16.6	22.8	29.2	2. 19. 51.47		51.65			45.24	2. 20. 36.91	- 7.31	
	29	ξ Ceti	WS	41.4	43.9	46.3	51.4	53.9	56.2	3.8	6.1	8.6	11.3	2. 21. 56.33		56.87	42.14	45.27		2. 22. 42.13	- 4.48	
	30	γ Ceti	WS	58.5	0.8	3.2	...	...	13.1	...	23.1	25.6	28.1	2. 37. 13.22		13.79	59.03	45.24		2. 37. 59.05	- 4.43	
	31	γ Ceti (E&E)	WS	38.0	52.8	7.5	...	37.5	52.2	7.0	...	...	...	2. 37. 12.87		13.44	59.03	45.59		.....		
	32	41 Arietis	WS	...	56.9	59.5	5.1	7.9	10.5	19.0	21.5	24.3	...	2. 43. 10.64		11.10				2. 43. 56.36	- 4.85	
	33	σ Arietis	WS	48.3	50.9	53.6	58.6	1.1	3.7	11.4	13.9	16.4	19.0	2. 45. 3.73		4.25	49.53	45.28		2. 45. 49.51	- 4.60	
	34	21 Persei	WS	0.4	3.1	6.1	11.9	14.7	17.7	26.1	29.2	32.1	34.9	2. 50. 17.66		18.10				2. 51. 3.36	- 4.99	
	35	ε Arietis	WS	18.9	21.5	24.2	29.4	32.0	34.6	42.4	45.3	47.8	50.7	2. 52. 34.72		35.20	20.51	45.31		2. 53. 20.46	- 4.72	
	36	ε Arietis ... (E&E)	WS	56.2	12.2	28.0	...	...	0.0	15.5	31.5	...	...	2. 52. 34.62		35.10	20.51	45.41		.....		
	37	Piazzi XIV. 260 S.P.	S	31.6	38.0	44.2	50.5	8.7	14.9	21.2	33.4	39.5	45.8	2. 55. 8.69		9.34			44.99	14. 55. 54.35	+ 1.45	
	38	Bradley 417	S	...	19.2	28.5	46.3	55.2	4.4	30.9	40.0	49.3	...	3. 0. 4.40		4.45				3. 0. 49.46	- 9.95	
	39	Groombridge 603	S	...	...	44.5	12.9	26.8	41.1	22.9	36.9	...	...	3. 3. 41.13		40.92				3. 4. 25.93	- 14.06	
	40	Groombridge 2283 S.P.	WS	48.3	57.1	1.4	5.6	10.6	16.8	23.2	29.5	36.4	42.8	3. 9. 8.59		11.83			45.24	15. 9. 57.09	+ 44.21	
	41	Piazzi III. 23	WS	14.9	18.0	20.9	26.8	29.8	32.9	41.8	44.6	47.6	50.8	3. 11. 32.85		33.28				3. 12. 18.54	- 5.13	
	42	τ Arietis	S	...	...	21.9	27.1	29.9	32.5	40.1	43.0	...	...	3. 14. 32.47		32.95	18.01	45.06	44.99	3. 15. 17.96	- 4.76	
	43	64 Arietis	S	12.9	15.6	18.5	23.9	26.6	29.3	...	...	...	...	3. 17. 29.28		29.76				3. 18. 14.77	- 4.85	
	44	Bradley 459	S	10.0	17.5	25.6	40.9	48.5	56.3	19.9	27.5	35.4	43.6	3. 18. 56.64		56.75				3. 19. 41.76	- 9.30	
	45	δ 2 L.	CD	21.9	24.5	27.1	32.1	35.4	37.7	45.9	48.1	50.6	53.5	9. 11. 37.72	(- 0.10)	38.18			45.31	9. 11. 15.06		
	46	Regulus	CD	51.8	54.3	56.9	2.0	4.3	7.0	14.5	17.1	19.7	22.2	10. 2. 7.02		7.50	52.89	45.39		.....		
	47	Mercury 2 L.	HF	46.0	48.4	51.0	55.7	58.4	0.9	8.2	10.9	13.3	15.9	13. 19. 0.91		1.50			45.13	13. 19. 46.52		
	48	Polaris S.P.	HF	7.1	16.2	32.4	41.2	49.2	58.0	6.1	14.1	22.5	30.2	13. 21. 3.16		10.83	54.18	43.35	[+ 0.16]	1. 21. 56.05	- 60.33	
	49	η Ursæ Majoris...	HF	...	...	26.6	34.1	38.1	42.0	53.5	57.3	...	...	13. 42. 42.01		42.27				13. 43. 27.49	- 1.00	
	50	η Boötis	HF	44.3	46.9	...	...	...	0.1	7.8	10.4	12.9	15.7	13. 49. 0.02		0.47	45.67	45.20		13. 49. 45.69	- 1.73	
	51	Arcturus	HF	55.1	57.8	0.4	5.7	8.1	10.9	18.6	21.3	24.0	26.8	14. 10. 10.91		11.35	56.62	45.27		14. 10. 56.57	- 1.59	
Oct. 30	52	⊙ 1 L.	HF	44.0	46.5	49.1	54.1	56.9	59.5	6.9	9.5	12.1	14.8	14. 18. 59.38		} 6.77				14. 20. 52.00		
	53	⊙ 2 L.	HF	57.7	0.1	2.6	7.6	10.2	12.9	20.3	23.2	25.7	28.2	14. 21. 12.88								

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 31 and 36, — 69^s.30 and — 69^s.31.
Corrections for passage of Semidiameter, Nos. 45 and 47, — 68^s.52 and — 0^s.20.

- Observed over wire T with the transit-micrometer set to readings 37^s.600, 37^s.100, 36^s.600, 36^s.100, 35^s.100, 34^s.600, 34^s.100, 33^s.600.
- Observed over wire R with the transit-micrometer set to readings 35^s.910, 35^s.820, 35^s.733, 35^s.675, 35^s.590, 35^s.470, 35^s.335, 35^s.259, 35^s.198.
- Very faint; observed in dark field with wires illuminated.
- Observed over wire U with the transit-micrometer set to readings 33^s.987, 34^s.080, 34^s.227, 34^s.277, 34^s.412, 34^s.550, 34^s.602, 34^s.778, 34^s.827, 34^s.948.
- Observed over wires U, V, W, X, Y and Z.
- Observed over wire T with the transit-micrometer set to readings 35^s.965, 35^s.800, 35^s.710, 35^s.651, 35^s.577, 35^s.450, 35^s.340, 35^s.240, 35^s.120, 35^s.047.
- Correction to R.A. on true meridian, + 0^s.02.
- Observed over wire X with the transit-micrometer set to readings 36^s.380, 36^s.306, 36^s.177, 36^s.084, 36^s.026, 35^s.940, 35^s.870, 35^s.800, 35^s.737, 35^s.661.
- Cloudy.

MON. & DAY.		No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.			Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896 ^o .																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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					I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.				h	m									s	"	s	s	s	h	m	s	"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Correction for passage of Semidiameter, No. 4, + 0^s.48.7. Observed over wire T with the transit-micrometer set to readings 36^s.584, 36^s.633, 36^s.684, 36^s.733, 36^s.780, 36^s.820, 37^s.051, 37^s.080, 37^s.162, 37^s.237.9. Observed over wire W with the transit-micrometer set to readings 35^s.850, 35^s.800, 35^s.750, 35^s.700, 35^s.650, 35^s.550.

9. 22. Faint; cloudy.

28, 29, 30, 36, 37, 41. Observed in dark field with wires illuminated.

46. Observed over wire Q with the transit-micrometer set to readings 33^s.574, 33^s.735, 33^s.890, 34^s.017, 35^s.220, 35^s.382, 35^s.574, 35^s.692, 35^s.799, 35^s.940.

50. Observed over wires Q, P, N and M.

23, 38, 40, 42, 43, 44, 45, 46. Very faint; cloudy.

44. Observed over wires X, Y and Z.

52. Observed over wires M, U, V, W and X.

1898G0AW...58A...1C

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h	m	s	"	s	s	s	s	h	m	s	s	
Oct. 30	1	Procyon.....	B	54.2	56.7	59.1	4.1	6.5	9.1	16.5	19.0	21.5	24.0	7. 33. 9.11	+ 2.44	9.63	55.17	45.54	45.43†	7. 33. 55.11	- 3.62	
	2	Procyon ... (E&E)	B	35.6	50.6	5.5	20.4	35.2	50.0	4.9	...	...	...	7. 33. 9.09	(- 0.10)	9.61	55.17	45.56	[+ 0.16]	.....	.....	
	3	Pollux	B	58.7	1.5	4.2	9.9	12.8	15.7	23.9	26.5	29.5	32.4	7. 38. 15.55	[+ 7.58]	15.95	1.41	45.46	.....	7. 39. 1.43	- 4.27	
	4	Pollux..... (E&E)	B	36.6	53.1	10.0	26.7	43.5	0.4	17.1	...	...	...	7. 38. 15.55		15.95	1.41	45.46	.....	.....	.....	
	5	α Cancri.....	C	50.0	52.5	55.1	...	...	...	...	15.2	18.0	20.4	8. 52. 5.23		5.71	51.35	45.64	45.55	8. 52. 51.32	- 3.38	
	6	α Hydrae	C	30.0	32.7	35.3	40.1	42.4	45.1	52.6	54.9	57.4	0.0	9. 21. 45.09		45.69	31.31	45.62	.....	9. 22. 31.30	- 2.74	
	7	Polaris S.P.	WB	59.7	6.0	18.6	23.2	31.9	41.6	48.4	57.6	2.2	13.0	13. 21. 2.05		9.72	53.93	44.21	45.44	1. 21. 55.24	- 60.08	
	8	Mercury (Centre)	WB	9.4	11.9	14.2	19.1	21.8	24.4	31.5	34.1	36.7	39.2	13. 24. 24.25		24.84	.....	[+ 0.14]	.....	13. 25. 10.36	.....	
Oct. 31	9	⊙ 1 L.....	WB	38.1	40.9	43.4	48.4	51.1	53.8	1.3	4.0	6.2	9.1	14. 22. 53.67		1.10	.....	.....	45.58	14. 24. 46.62	.....	
	10	⊙ 2 L.....	WB	52.0	54.3	56.9	2.0	4.5	7.2	14.9	17.5	20.0	22.7	14. 25. 7.24								
	11	α Andromedæ ...	WB	1.8	4.5	7.4	12.9	15.9	18.6	26.9	29.8	32.6	35.6	0. 2. 18.64		19.04	4.64	45.60	.....	.....	.....	
	12	γ Pegasi.....	WB	...	57.9	0.5	5.5	8.0	10.6	18.1	20.8	23.5	...	0. 7. 10.66		11.13	56.81	45.68	.....	.....	.....	
	13	ε Andromedæ ...	WB	4.9	7.5	10.2	16.1	18.9	21.7	30.0	32.9	35.9	38.6	0. 32. 21.71		22.11	7.70	45.59	.....	.....	.....	
	14	δ Draconis S.P....	WB	58.0	4.0	10.6	16.3	...	...	...	...	...	...	0. 50. 34.61		35.32	.....	.....	.....	12. 51. 20.90	- 0.72	
	15	70 Piscium	WB	...	48.0	50.5	55.5	58.0	0.5	7.9	10.3	12.9	...	0. 56. 0.50		1.01	.....	.....	.....	0. 56. 46.60	- 4.29	
	16	Groomb.2006 S.P.	WB	26.0	33.2	46.1	51.4	2.9	9.3	19.9	24.6	39.2	44.8	1. 3. 40.97		46.38	.....	.....	.....	13. 4. 31.97	+ 30.62	
	17	Groomb.2007 S.P.	WB	32.9	47.9	3.6	18.4	33.1	1.7	19.4	34.4	48.3	3.6	1. 17. 48.33		50.63	.....	.....	.....	13. 18. 36.22	+ 11.61	
	18	Polaris	WB	28.1	38.3	54.5	4.1	17.7	23.4	34.0	40.0	49.7	55.8	1. 21. 16.96		10.07	53.80	43.73	.....	1. 21. 55.66	- 59.95	
	19	ν Piscium	WB	4.5	6.9	9.4	14.2	16.8	19.4	26.8	29.1	31.6	34.2	1. 35. 19.33		19.86	5.42	45.56	.....	.....	.....	
	20	Groomb.2038 S.P.	WB	2.7	7.0	11.6	16.0	29.1	34.0	38.3	47.0	51.5	56.1	1. 39. 29.26		29.83	.....	.....	.....	13. 40. 15.42	- 0.70	
	21	Lalande f. 241 ...	WB	41.8	55.5	11.0	24.3	39.0	53.2	5.5	...	...	...	1. 48. 24.33		20.26	.....	.....	.....	1. 49. 5.85	- 44.48	
	22	α Arietis	WB	21.1	23.9	26.4	31.9	...	...	...	50.5	53.4	2. 0. 37.23		37.66	23.19	45.53	.....	.....	.....	.....	
	23	η Arietis	WB	1.3	4.0	6.6	12.0	14.4	17.3	25.1	27.7	30.2	33.1	2. 6. 17.21		17.64	.....	.....	.....	2. 7. 3.23	- 4.64	
	24	Lalande 4258	WB	41.5	46.0	50.0	58.6	2.9	7.4	20.1	24.5	28.9	33.4	2. 13. 7.39		7.61	.....	.....	.....	2. 13. 53.20	- 5.88	
	25	26 Arietis	WB	51.3	54.0	56.5	1.7	4.2	7.2	14.6	17.3	20.0	22.8	2. 24. 7.00		7.44	.....	.....	.....	2. 24. 53.03	- 4.67	
	26	Groomb.2132 S.P.	WB	0.5	6.8	12.9	18.9	37.0	43.0	49.4	1.3	7.0	13.2	2. 30. 36.91		37.61	.....	.....	.....	14. 31. 23.20	+ 1.05	
	27	Groombridge 553	WB	42.1	45.5	49.1	55.9	59.2	2.9	12.9	16.1	20.0	23.1	2. 40. 2.73		3.03	.....	.....	.....	2. 40. 48.63	- 5.44	
Nov. 2	28	57 Camelopardi S.P.	B	1.4	6.8	12.3	17.8	33.9	39.4	44.9	55.6	0.9	6.2	20. 9. 33.84	+ 2.52	34.69	.....	.....	45.67	8. 10. 20.53	- 6.46	
	29	γ Cygni	B	26.0	29.1	32.2	38.0	42.0	45.3	54.8	58.0	1.3	4.6	20. 17. 45.26	(- 0.25)	45.62	.....	.....	[+ 0.20]	20. 18. 31.46	- 1.73	
	30	ο Ursæ Maj. S.P.	B	26.1	31.6	36.6	41.8	56.9	2.0	7.1	17.1	22.5	27.4	20. 20. 56.83	[+ 9.03]	57.64	.....	.....	.....	8. 21. 43.48	- 6.05	
	31	Α Ursæ Maj. S.P.	B	1.5	7.7	13.8	19.9	37.4	43.5	49.2	1.1	7.1	13.0	20. 24. 37.35		38.25	.....	.....	.....	8. 25. 24.09	- 6.60	
	32	ε Delphini.....	B	16.0	18.4	20.9	25.9	28.3	31.0	38.2	40.9	43.5	46.1	20. 27. 30.96		31.52	17.37	45.85	.....	.....	.....	
	33	Groombridge 3230	B	...	...	37.6	47.3	52.0	57.1	11.7	16.6	...	...	20. 28. 57.15		57.28	.....	.....	.....	20. 29. 43.12	- 0.54	
	34	Groomb.1457 S.P.	B	17.1	24.7	32.2	39.6	1.5	9.2	16.5	31.2	38.8	46.0	20. 32. 1.57		2.63	.....	.....	.....	8. 32. 48.47	- 7.42	
	35	α Delphini.....	B	49.2	52.0	54.4	59.5	2.0	4.7	12.2	14.9	17.4	20.1	20. 34. 4.68		5.21	51.08	45.87	.....	.....	.....	
	36	30 Vulpeculæ R...	B	...	...	...	...	...	38.5	46.4	49.2	52.0	54.9	20. 39. 38.46		38.96	.....	.....	.....	20. 40. 24.80	- 2.45	
	37	32 Vulpeculæ R...	B	6.9	9.8	12.6	18.0	20.9	23.9	32.0	34.8	37.6	40.5	20. 49. 23.74		24.22	10.05	45.83	.....	.....	.....	
	38	61 ¹ Cygni	B	11.5	14.5	17.8	24.0	27.0	30.2	39.7	42.8	46.0	49.2	21. 1. 30.32		30.68	.....	.....	.....	21. 2. 16.53	- 2.48	
	39	61 ² Cygni	B	12.9	16.1	19.3	25.5	28.6	31.9	41.2	44.3	47.5	50.8	21. 1. 31.86		32.22	.....	.....	.....	21. 2. 18.07	- 2.49	
	40	ζ Cygni	B	29.7	32.5	35.4	40.9	43.9	46.8	55.3	58.0	1.1	3.9	21. 7. 46.79		47.21	33.09	45.88	.....	.....	.....	
	41	Groomb.1609 S.P.	B	13.3	19.3	25.2	31.0	47.6	53.7	59.5	10.8	16.5	22.1	22. 0. 47.81		48.69	.....	.....	.....	10. 1. 34.54	- 4.58	
	42	Bradley 2934...R.	B	...	48.5	57.4	12.5	20.7	...	...	...	...	...	22. 7. 28.34		28.27	.....	.....	.....	22. 8. 14.12	- 1.28	
	43	Bradley 2934.....	B	...	...	...	...	...	...	51.6	59.6	7.4	15.4	22. 7. 28.50		28.33	.....	.....	.....	22. 8. 14.18	- 1.28	
	44	γ Aquarii	B	19.4	21.9	24.3	29.1	31.6	34.2	41.6	44.0	46.5	49.1	22. 15. 34.21		34.85	20.68	45.83	.....	.....	.....	
	45	σ Aquarii	B	10.9	13.3	15.9	20.8	23.3	26.0	33.4	36.0	38.4	41.0	22. 24. 25.94		26.64	12.46	45.82	.....	.....	.....	
	46	B.D.—14° No. 6301	B	38.6	41.2	43.9	48.9	51.5	54.0	...	...	...	...	22. 25. 54.01		54.73	.....	.....	.....	22. 26. 40.59	- 3.94	
	47	B.D.+0° No. 4889	B	...	...	...	...	15.1	22.2	24.9	27.5	30.1	...	22. 26. 15.12		15.75	.....	.....	.....	22. 27. 1.61	- 3.67	
	48	Groomb. 3887...R.	B	...	9.1	24.9	56.0	11.3	27.6	14.8	28.5	44.9	...	22. 38. 27.44		26.73	.....	.....	.....	22. 39. 12.59	- 1.08	
	49	Bradley 3038.....	B	50.4	0.5	9.7	19.3	29.6	...	...	...	...	...	22. 47. 9.90		8.69	.....	.....	.....	22. 47. 54.55	- 1.24	
	50	Bradley 3058...R.	B	13.4	36.1	59.5	44.0	7.6	31.4	...	...	...	...	22. 54. 30.69		29.40	.....	.....	.....	22. 55. 15.26	- 1.57	
	51	Bradley 3058.....	B	...	...	...	...	...	38.9	1.6	25.0	48.0	...	22. 54. 31.22		29.67	.....	.....	.....	22. 55. 15.53	- 1.57	
	52	Oeltz.Arg.(N.)11509 S.P.R.	B	...	...	...	28.7	49.1	56.0	2.5	...	...	...	23. 4. 48.94		49.89	.....	.....	.....	11. 5. 35.75	- 3.24	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 2 and 4, — 71^s.25 and — 71^s.25.

5. Cloudy.
7. Observed over wire U with the transit-micrometer set to readings 36^r.361, 36^r.290, 36^r.187, 36^r.144, 36^r.056, 35^r.964, 35^r.904, 35^r.819, 35^r.785, 35^r.681.
8. Very faint; cloudy. A correction of — 0^s.02, for defect of illumination, has been applied in forming the concluded transit.
16. Observed over wire R with the transit-micrometer set to readings 36^r.300, 36^r.175, 36^r.044, 35^r.954, 35^r.810, 35^r.724, 35^r.614, 35^r.530, 35^r.361, 35^r.282.
17. Observed over wire T with the transit-micrometer set to readings 38^r.100, 37^r.600, 37^r.100, 36^r.600, 36^r.100, 35^r.100, 34^r.600, 34^r.100, 33^r.600, 33^r.100.
18. Observed over wire Q with the transit-micrometer set to readings 34^r.980, 35^r.045, 35^r.190, 35^r.274, 35^r.409, 35^r.437, 35^r.529, 35^r.609, 35^r.687, 35^r.748.
21. Observed over wire T with the transit-micrometer set to readings 35^r.000, 35^r.200, 35^r.400, 35^r.600, 35^r.800, 36^r.000, 36^r.200.
47. Observed in dark field with wires illuminated.
49. Observed over wire T with the transit-micrometer set to readings 34^r.600, 35^r.100, 35^r.600, 36^r.100, 36^r.600.
6. Unsteady.
- 9, 10. Very faint.
- 48, 52. Very windy.

MON. or DAY.

1888

60

MM.

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.		
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).									
			s	s	s	s	s	s	s	s	s	s		[Azimuth].									
			s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s		
Nov. 2	1	γ Piscium	B	48.9	51.4	54.0	59.0	1.4	3.9	11.1	13.5	16.1	18.6	23. 11. 3.83	+ 2.52	4.44	50.28	45.84	45.67	.....			
	2	Piazzi XI. 43 S.P.	B	21.9	28.0	33.9	39.6	56.6	2.9	8.6	20.0	26.2	31.8	23. 15. 56.86	(- 0.25)	57.75			[+ 0.20]	11. 16. 43.61	- 2.92		
	3	Oeltz. Arg. (N.) 25557	B	17.4	22.2	27.6	37.5	42.6	47.9	2.6	7.7	12.9	18.1	23. 19. 47.73	[+ 9.03]	47.84				23. 20. 33.70	- 3.49		
	4	Groombridge 4062	B	...	...	...	...	...	...	23.3	28.5	43.5	48.3	...			28.53				23. 21. 14.39	- 3.50	
	5	Groombridge 4075	B	46.9	50.2	53.8	0.5	3.9	7.5	17.4	20.9	24.2	27.9	23. 24. 7.37			7.70				23. 24. 53.57	- 3.61	
	6	W. B. (2) XXIII. 621	B	...	...	...	18.9	21.8	24.7	32.9	...	...	...	23. 30. 24.63			25.07				23. 31. 10.94	- 3.75	
	7	W. B. (2) XXIII. 622	B	8.0	10.7	13.7	...	...	...	...	36.1	38.9	41.9	23. 30. 24.91			25.35				23. 31. 11.22	- 3.75	
	8	α Andromedæ ...	B	1.4	4.1	...	12.9	...	...	...	...	...	8.9	0. 2. 18.36			18.80	4.63	45.83	45.87	.....		
	9	σ Andromedæ ...	B	16.2	...	...	...	...	11.5	20.4	23.5	26.5	29.8	0. 12. 11.37			11.76				0. 12. 57.63	- 4.10	
	10	α Cassiopeia ...	B	...	...	...	45.9	50.4	54.9	8.0	...	...	...	0. 33. 54.89			55.08				0. 34. 40.95	- 4.66	
	11	γ Cassiopeia ...	B	15.1	20.0	25.1	34.9	40.0	45.0	...	...	14.8	44.2	0. 49. 44.95			45.08				0. 50. 30.96	- 5.11	
	12	Polaris ...	B	56.4	50.9	56.8	2.6	5.1	14.1	27.0	34.5	52.5	2.1	1. 21. 18.54			8.82	53.36	44.54		1. 21. 54.70	- 59.51	
	13	Carrington 218...	B	...	...	...	...	...	2.2	39.9	15.4	48.7	23.3	1. 31. 2.87			0.37				1. 31. 46.25	- 20.76	
	14	ν Piscium	B	...	6.5	9.1	13.9	16.4	19.0	26.2	28.7	31.3	...	1. 35. 18.94			19.54	5.43	45.89		...		
	15	α Trianguli ...	B	10.1	13.2	16.0	...	...	...	27.5	...	38.6	41.5	44.4	1. 46. 27.36			27.79				1. 47. 13.67	- 4.69
	16	β Arietis	B	...	58.6	1.1	6.4	8.9	11.7	19.6	22.1	24.9	...	1. 48. 11.71			12.20	58.12	45.92		...		
	17	Carrington 274...	B	...	...	...	...	3.9	22.2	15.1	33.5	51.1	9.6	1. 49. 22.39			21.29				1. 50. 7.18	- 13.71	
	18	Groomb. 2074 S.P.	B	54.6	...	...	15.9	36.1	43.5	50.1	...	...	18.0	1. 57. 36.28			37.28				13. 58. 23.17	+ 1.10	
	19	Piazzi XIII. 306 S.P.	B	3.3	10.5	...	24.2	45.0	52.2	59.3	...	19.9	26.8	1. 58. 45.05			46.05				13. 59. 31.94	+ 1.12	
	20	β Trianguli ...	B	21.8	24.7	27.8	33.7	36.7	39.9	48.6	51.6	54.6	57.8	2. 2. 39.76			40.15				2. 3. 26.04	- 4.91	
	21	Polaris S.P.	B	29.2	36.1	44.5	52.2	59.4	7.2	15.5	23.0	32.9	41.9	13. 20. 58.01			8.65	53.28	44.63		1. 21. 54.63	- 59.43	
Nov. 3	22	⊙ 1. L.	CD	...	...	...	...	...	49.1	51.5	54.2	56.9	14. 34. 41.44	[+ 8.04]		49.31			45.85				
	23	⊙ 2. L.	CD	40.6	42.9	45.5	50.6	53.1	55.9	3.5	6.0	8.6	11.2	14. 36. 55.83			42.10	28.11	46.01	[+ 0.22]	14. 36. 35.29		
	24	ε Boötis	CD	24.9	27.6	30.5	36.0	38.9	41.8	50.0	52.7	55.6	58.5	14. 39. 41.69			56.87				...		
	25	Venus 1 L.	CD	40.0	42.6	45.4	50.6	53.4	56.1	4.1	6.9	9.5	12.3	16. 40. 56.13			26.00	12.73	46.73		16. 41. 43.36		
	26	λ Ursæ Minoris...	CD	9.2	15.5	23.4	44.9	50.9	56.5	12.5	18.9	24.2	40.6	19. 24. 35.69			32.66	17.62	44.96		19. 25. 12.03	+ 107.05	
	27	Groomb. 1119 S.P.	CD	6.9	14.0	23.1	44.5	52.8	58.9	16.8	24.1	30.5	49.9	19. 54. 22.61			0.96				7. 55. 18.69	- 99.55	
	28	14 Sagittæ .....R.	CD	45.0	47.6	50.1	55.4	57.9	...	...	...	...	...	19. 58. 0.46							19. 58. 46.99	- 2.42	
	29	ρ Capricorni.....	CD	56.7	59.4	2.0	7.1	9.9	12.5	20.1	22.6	25.5	28.0	20. 22. 12.42			13.12	59.13	46.01		.....		
	30	ρ Capricorni (E & E)...	CD	41.9	57.5	...	29.0	...	...	0.1	15.7	...	...	20. 22. 12.33			13.03	59.13	46.10		.....		
	31	ε Delphini.....	CD	15.6	18.1	20.8	25.8	28.1	30.9	38.2	40.8	43.4	46.0	20. 27. 30.81			31.32	17.35	46.03		.....		
	32	ε Delphini (E & E)	CD	2.1	16.9	...	47.2	...	17.4	32.4	...	...	...	20. 27. 30.69			31.20	17.35	46.15		.....		
	33	ε Capricorni	C	28.7	31.1	33.9	39.1	41.5	44.1	52.0	54.4	57.1	59.9	21. 15. 44.22			44.91	31.01	46.10	45.90	.....		
	34	ζ Geminorum	B	58.5	1.0	3.6	8.8	11.5	14.1	22.0	24.6	27.2	30.0	6. 57. 14.17	(+ 0.25)		14.66	0.83	46.17	46.13	6. 58. 0.84	- 4.42	
	35	γ Canis Majoris..	B	...	...	9.6	14.7	17.1	19.9	27.4	30.0	...	...	6. 58. 19.83			20.52	6.57	46.05	[+ 0.18]	6. 59. 6.70	- 3.44	
	36	Groomb. 2775 S.P.	B	...	...	...	50.0	16.4	26.1	34.9	...	...	...	7. 0. 16.66			17.58				19. 1. 3.76	+ 4.22	
	37	Groombridge 1269	B	...	...	...	54.4	58.8	3.1	15.8	...	...	...	7. 4. 3.12			3.39				7. 4. 49.57	- 6.31	
	38	Groomb. 2781 S.P.	B	...	...	...	...	...	...	42.5	47.2	51.5	17.2	7. 5. 25.40			25.99				19. 6. 12.17	0.00	
	39	Groomb. 2806 S.P.	B	48.1	52.7	57.1	1.5	14.1	18.9	22.8	31.4	35.9	40.3	7. 12. 14.22			14.81				19. 13. 0.99	- 0.08	
	40	Groomb. 2815 S.P.	B	...	...	...	...	...	...	20.1	24.0	28.0	51.1	7. 15. 5.18			5.72				19. 15. 51.90	- 0.60	
	41	Groomb. 2839 S.P.	B	31.3	35.9	40.1	44.7	57.3	1.4	5.9	14.2	18.3	22.9	7. 19. 57.14			57.73				19. 20. 43.91	- 0.15	
	42	Groomb. 2847 S.P.	B	...	32.9	37.4	41.8	...	...	59.1	3.4	12.1	16.1	...	7. 21. 54.59			55.18				19. 22. 41.37	- 0.15
	43	Groomb. 2855 S.P.	B	...	44.9	49.3	53.3	5.9	10.1	14.6	22.8	27.3	...	7. 25. 5.95			6.53				19. 25. 52.72	- 0.24	
	44	λ Ursæ Min. S.P..	B	15.9	21.5	42.0	51.6	2.5	9.9	17.6	29.4	36.0	41.4	7. 24. 19.19			28.23	12.09	43.86		19. 25. 14.42	+ 107.69	
	45	ε Cygni S.P.	B	54.9	59.0	3.0	7.3	18.8	22.9	26.8	34.6	38.6	42.6	7. 26. 18.79			19.34				19. 27. 5.53	- 0.52	
	46	n ¹ Puppis	B	54.6	57.6	0.1	...	...	...	11.0	...	21.9	24.3	7. 29. 10.99			11.73				7. 29. 57.92	- 3.08	
	47	n ² Puppis	B	55.6	58.4	0.9	6.2	8.9	11.7	19.9	22.4	25.0	27.8	7. 29. 11.72			12.46				7. 29. 58.65	- 3.08	
	48	p Puppis	B	...	...	...	...	...	...	42.0	45.0	1.9	18.6	7. 30. 28.24			29.03				7. 31. 15.22	- 2.95	
	49	k ¹ Puppis	B	...	...	...	44.0	46.4	49.4	57.6	0.6	3.1	6.1	7. 33. 49.45			50.22				7. 34. 36.41	- 2.98	
	50	k ² Puppis	B	...	...	...	44.5	47.1	50.1	58.3	1.1	3.7	6.6	7. 33. 50.05			50.82				7. 34. 37.01	- 2.98	
	51	Bradley 1116	B	...	...	35.3	41.1	43.6	46.4	54.5	57.5	...	...	7. 37. 46.45			47.22				7. 38. 33.41	- 2.97	
	52	Groomb. 2953 S.P.	B	8.7	13.5	18.0	23.3	37.5	42.2	47.3	56.8	1.8	6.4	7. 45. 37.48			38.11				19. 46. 24.30	+ 0.04	
	53	Piazzi VII. 245...	B	...	...	...	...	...	...	2.1	5.0	7.5	10.1	7. 46. 54.81			55.49				7. 47. 41.68	- 3.24	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 30 and 32, — 76".55 and — 76".55.
Correction for passage of Semidiameter, No. 25, + 0".49.

8. Observed over wires O, P, R and Z.

10, 11. Very faint; cloudy.

12. Very cloudy. Observed over wire T with the transit-micrometer set to readings 30".170, 37".440, 37".515, 37".562, 39".150, 39".235, 39".338, 39".406, 39".575, 39".651.

13, 18. Observed in dark field with wires illuminated.

21. Observed over wire T with the transit-micrometer set to readings 35".848, 35".800, 35".721, 35".642, 35".570, 35".525, 35".437, 35".390, 35".299, 35".223.

26. Observed over wire T with the transit-micrometer set to readings 36".270, 36".323, 36".377, 36".514, 36".570, 36".608, 36".726, 36".764, 36".808, 36".921.

27. Observed over wire U with the transit-micrometer set to readings 36".364, 36".301, 36".236, 36".075, 36".024, 35".983, 35".820, 35".789, 35".734, 35".601.

38, 40. Observed over wires Q, P, O and N.

42. Very faint.

44. Observed over wire O with the transit-micrometer set to readings 35".187, 35".115, 34".973, 34".910, 34".855, 34".810, 34".721, 34".650, 34".609, 34".550.

48. Observed over wires W, X, Y and Z.

49, 50. Very unsteady.

9. Observed over wires M, T, U, V, W and X.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
															Collimation.	(Level).						
															[Azimuth].							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h m s	"						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Nov. 3	1	Groombridge 1119	B	6.1	11.5	18.3	24.9	44.4	54.8	5.1	18.2	24.4	30.0	7. 54. 41.75	+ 2.52	33.86	18.24	44.38	46.13	7. 55. 20.05	- 100.17	
	2	Groomb. 3002 S.P.	B	13.5	...	21.8	26.2	39.0	42.9	47.3	56.2	...	4.9	7. 54. 38.92	(+ 0.25)	39.51			[+ 0.18]	19. 55. 25.70	- 0.51	
	3	Groomb. 3003 S.P.	B	...	...	10.2	14.1	27.1	31.5	35.9	44.5	...	...	7. 55. 27.13	[+ 8.04]	27.72				19. 56. 13.91	- 0.52	
	4	Groomb. 3041 S.P.	B	47.1	51.5	56.0	59.9	13.6	17.9	22.2	31.1	35.5	40.0	8. 2. 13.41		14.02				20. 3. 0.21	- 0.49	
	5	Groomb. 3047 S.P.	B	...	...	...	...	...	31.4	35.3	43.1	47.1	50.6	8. 3. 27.65		28.19				20. 4. 14.38	- 0.99	
	6	κ Cephei S.P.	B	...	...	...	58.2	31.5	43.9	54.7	...	...	...	8. 11. 31.84		32.92				20. 12. 19.11	+ 4.35	
	7	* N.P.D. 12° 37' S.P.	B	...	...	...	59.9	34.0	45.6	56.7	...	...	...	8. 11. 33.81		34.89				20. 12. 21.08	+ 4.35	
	8	Groomb. 3156 S.P.	B	3.6	11.6	20.1	28.1	...	...	...	...	...	...	8. 14. 52.16		53.04				20. 15. 39.23	+ 2.04	
	9	Groomb. 3145 S.P.	B	...	...	...	22.1	34.9	39.5	43.9	...	...	...	8. 15. 35.01		35.60				20. 16. 21.79	- 0.72	
	10	Groomb. 3153 S.P.	B	...	...	...	...	...	51.9	56.1	0.0	24.1	...	8. 17. 35.89		36.45				20. 18. 22.64	- 0.99	
	11	Groomb. 3214 S.P.	B	...	...	...	32.7	37.0	41.4	...	54.0	58.0	...	8. 27. 32.75		33.33				20. 28. 19.52	- 0.95	
	12	Groomb. 3232 S.P.	B	...	...	28.5	32.1	44.2	48.5	52.5	0.6	...	...	8. 29. 44.32		44.88				20. 30. 31.07	- 1.11	
	13	Groomb. 3235 S.P.	B	...	...	...	...	4.0	8.1	12.2	20.1	24.2	28.2	8. 30. 3.94		4.50				20. 30. 50.69	- 1.11	
	14	Radcliffe 2166	B	...	...	...	...	...	22.8	38.0	53.1	9.7	...	8. 32. 36.30		35.79				8. 33. 21.98	- 12.67	
	15	Groombridge 1463	B	12.0	26.1	42.0	10.6	26.0	41.0	25.0	40.0	54.6	10.2	8. 39. 40.97		40.51				8. 40. 26.70	- 11.88	
	16	W. B. VIII. 1081.	B	...	...	...	...	...	44.9	47.5	50.1	52.5	...	8. 43. 37.44		37.96				8. 44. 24.16	- 3.56	
	17	W. B. VIII. 1087.	B	...	...	...	...	...	55.1	57.5	0.0	2.6	...	8. 43. 47.50		48.02				8. 44. 34.22	- 3.55	
	18	76 Draconis S.P.	B	54.2	3.4	13.2	22.2	30.9	...	...	...	...	...	8. 49. 12.78		14.31				20. 50. 0.51	+ 6.88	
	19	α Cancri	B	39.9	42.5	45.5	51.2	54.0	57.1	5.6	8.2	11.3	14.1	8. 50. 56.98		57.41				8. 51. 43.61	- 4.02	
	20	α Cancri	B	49.5	52.0	54.6	59.6	2.1	4.7	12.1	14.7	17.3	20.0	8. 52. 4.70		5.22	51.48	46.26		8. 52. 51.42	- 3.51	
	21	Groomb. 3363 S.P.	B	...	...	36.0	42.1	59.9	5.9	11.5	23.5	...	...	8. 53. 59.70		0.42				20. 54. 46.62	- 0.22	
	22	κ Cancri	B	8.5	10.9	13.5	18.4	21.0	23.6	30.9	33.5	36.1	38.7	9. 1. 23.55		24.08	10.29	46.21		9. 2. 10.28	- 3.42	
	23	κ Cancri... (E&E)	B	55.6	10.6	25.7	40.8	56.0	11.0	26.1	...	...	...	9. 1. 23.58		24.11	10.29	46.18		.....		
	24	Groomb. 3406 S.P.	B	...	...	24.1	28.1	41.5	45.4	50.1	59.1	...	...	9. 5. 41.29		41.89				21. 6. 28.09	- 1.38	
	25	Groomb. 3411 S.P.	B	...	...	...	...	40.4	45.5	49.8	57.9	2.0	6.2	9. 7. 41.20		41.77				21. 8. 27.97	- 1.53	
	26	83 Cancri	B	12.0	14.2	16.9	22.0	24.6	27.5	35.0	37.6	40.2	43.0	9. 12. 27.34		27.84	14.11	46.27		9. 13. 14.04	- 3.50	
	27	83 Cancri... (E&E)	B	57.8	13.5	29.1	44.8	0.2	15.9	31.6	...	...	...	9. 12. 27.45		27.95	14.11	46.16		.....		
	28	Groomb. 3548 S.P.	B	58.6	7.2	14.7	24.0	32.2	...	...	...	...	...	9. 19. 15.34		18.35	4.89	46.54		21. 20. 4.55	+ 15.88	
	29	α Hydrae	B	29.6	32.0	34.5	39.6	42.0	44.6	52.0	54.5	57.0	59.7	9. 21. 44.59		45.24	31.44	46.20		9. 22. 31.44	- 2.87	
	30	Piazzi IX. 105	B	16.4	19.2	22.0	27.4	30.1	32.9	41.1	44.0	46.7	49.5	9. 24. 32.97		33.74				9. 25. 19.94	- 2.41	
	31	Groomb. 3497 S.P.	B	21.2	28.0	34.6	41.2	0.5	7.3	13.6	27.0	33.2	40.0	9. 28. 0.56		1.32				21. 28. 47.52	- 0.62	
	32	Groomb. 3502 S.P.	B	...	...	48.4	8.1	...	21.5	34.2	40.8	47.5	...	9. 29. 8.02		8.78				21. 29. 54.98	- 0.64	
	33	Polaris S.P.	H	3.6	14.1	24.9	42.4	57.4	21.6	30.0	47.6	14.7	26.0	13. 21. 1.36		8.86	53.14	44.28	45.85	1. 21. 54.81	- 59.29	
	34	Arcturus	H	54.2	57.1	59.7	...	...	10.1	...	20.5	23.2	26.0	14. 10. 10.14		10.64	56.66	46.02		14. 10. 56.60	- 1.63	
Nov. 4	35	⊙ 1 L.	H	...	...	...	36.5	...	46.7	49.3	52.0	54.5	14. 38. 39.12									
	36	⊙ 2 L.	H	38.2	40.9	43.5	48.5	51.2	54.0	1.4	3.9	6.6	9.5	14. 40. 53.81						14. 40. 33.12		
	37	α Coronae	B	15.2	18.0	20.8	26.1	28.9	31.9	40.0	42.9	45.8	48.5	15. 29. 31.85		32.31	18.35	46.04		15. 30. 18.28	- 1.32	
	38	α Serpentis	B	8.6	11.1	13.6	18.5	21.1	23.7	31.1	33.5	36.0	38.5	15. 38. 23.61		24.17	10.45	46.28	46.13	15. 39. 10.42	- 1.78	
	39	ζ Herculis	H	19.0	21.9	24.9	30.5	33.6	36.5	45.1	48.0	50.9	54.0	16. 36. 36.48		36.91	22.95	46.04	45.85	16. 37. 22.88	- 1.05	
	40	Venus 1 L.	H	57.5	0.1	2.8	8.2	10.9	13.9	21.8	24.2	27.2	30.1	16. 46. 13.71		14.45				16. 47. 0.92		
	41	α Ophiuchi	B	6.1	8.8	11.4	16.2	18.8	21.5	28.9	31.5	34.0	36.5	17. 29. 21.41		21.93	8.18	46.25	46.13	17. 30. 8.19	- 1.83	
	42	β Ophiuchi	B	20.2	22.8	25.3	30.2	32.8	35.2	42.5	45.0	47.6	50.1	17. 37. 35.21		35.78	22.10	46.32		17. 38. 22.04	- 2.06	
	43	μ Herculis	B	21.1	23.9	26.7	32.1	34.9	37.9	46.1	48.9	51.8	54.6	17. 41. 37.84		38.29	24.57	46.28		17. 42. 24.55	- 1.33	
	44	δ Ursae Minoris...	H	31.2	44.0	50.7	16.1	23.1	0.4	8.7	16.5	38.0	46.0	18. 4. 31.84		29.69			45.85	18. 5. 15.68	+ 35.52	
	45	α Lyrae	H	20.5	23.7	27.0	33.2	36.4	39.8	49.0	52.1	55.5	58.8	18. 32. 39.65		40.03	26.06	46.03		18. 33. 26.02	- 1.05	
	46	Cephei 51 S.P.	H	47.3	53.5	0.2	13.6	22.5	30.5	48.9	56.7	5.0	28.8	18. 51. 42.92		46.47				6. 52. 32.46	- 47.10	
	47	ζ Aquilae	B	37.9	40.3	42.9	48.0	50.4	53.1	0.6	3.1	5.8	8.3	18. 59. 53.08		53.60	39.90	46.30	46.13	19. 0. 39.87	- 2.14	
	48	δ Aquilae	B	...	...	...	28.3	30.9	38.2	40.7	43.2	45.9	19. 19. 30.92		31.50	17.80	46.30		19. 20. 17.77	- 2.55		
	49	λ Ursae Minoris...	B	30.6	39.0	57.6	5.5	24.4	34.3	48.0	56.0	8.1	15.0	19. 24. 33.19		25.00	11.44	46.44		19. 25. 11.28	+ 108.34	
	50	β Aquilae	H	13.4	15.9	18.3	23.2	25.7	28.2	35.6	38.1	40.6	43.2	19. 49. 28.26		28.82	14.84	46.02	45.85	19. 50. 14.82	- 2.62	
	51	Groomb. 1119 S.P.	H	56.8	6.1	15.2	35.9	52.9	35.0	44.6	1.1	27.9	33.5	19. 54. 22.55		31.22	18.88	47.66		7. 55. 17.22	- 100.81	
	52	α Capricorni	H	18.2	20.9	23.6	28.5	31.0	33.6	41.1	43.6	46.1	48.8	20. 11. 33.58		34.25	20.27	46.02		20. 12. 20.25	- 3.22	
	53	Groombridge 3425	B	52.1	56.1	0.1	8.1	12.1	16.1	28.0	32.0	36.1	40.2	21. 12. 16.15		16.44			46.13	21. 13. 2.73	- 1.66	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 23 and 27, — 77^s.28 and — 77^s.28.
Correction for passage of Semidiameter, No. 40, + 0^s.49.

- Observed over wire T with the transit-micrometer set to readings 37^s.108, 37^s.160, 37^s.231, 37^s.268, 37^s.403, 37^s.523, 37^s.587, 37^s.666, 37^s.719, 37^s.766.
- 3, 12. Very faint.
- Observed over wire T with the transit-micrometer set to readings 36^s.600, 36^s.100, 35^s.600, 35^s.100, 34^s.600.
- Observed over wire T with the transit-micrometer set to readings 36^s.000, 35^s.800, 35^s.600, 35^s.400, 35^s.200.
- Observed over wire T with the transit-micrometer set to readings 38^s.220, 38^s.100, 38^s.009, 37^s.872, 37^s.740, 35^s.409, 35^s.369, 35^s.212, 34^s.966, 34^s.813.
- Observed over wire U with the transit-micrometer set to readings 34^s.068, 34^s.380, 34^s.530, 35^s.138, 35^s.303, 36^s.191, 36^s.390, 36^s.582, 37^s.080, 37^s.277.
- Observed over wire X with the transit-micrometer set to readings 35^s.440, 35^s.312, 35^s.171, 34^s.915, 34^s.729, 34^s.565, 34^s.229, 34^s.075, 33^s.909, 33^s.425.
- Very faint; cloudy. Observed over wire Q with the transit-micrometer set to readings 34^s.830, 34^s.887, 35^s.049, 35^s.103, 35^s.230, 35^s.320, 35^s.402, 35^s.467, 35^s.541, 35^s.580.
- Observed over wire T with the transit-micrometer set to readings 36^s.240, 36^s.173, 36^s.108, 35^s.950, 35^s.825, 35^s.512, 35^s.428, 35^s.305, 35^s.113, 35^s.060.

NO. of Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.			
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m							s	[Level].	
																							[Azimuth].	
s	s	s	s	s	s	s	s	s	s															
Nov. 4	1	Groombridge 3430	B	20.2	24.2	28.3	36.1	40.2	44.4	56.2	0.2	4.1	8.5	21. 13. 44.30	+ 2.52	44.59			46.13	21. 14. 30.88	- 1.68			
	2	Groombridge 3548	B	46.8	55.2	4.1	12.1	21.1	29.2	37.1	45.3	54.6	...	21. 19. 20.61	(+ 0.25)	18.46	4.71	46.25	[+ 0.18]	21. 20. 4.75	+ 16.06			
	3	Groombridge 3479	B	27.4	38.1	49.1	10.0	20.9	31.8	3.6	14.2	25.1	36.0	21. 22. 31.78	[+ 8.04]	31.59				21. 23. 17.88	+ 1.49			
	4	Groombridge 3473	B	2.2	6.6	11.1	19.8	24.2	28.8	41.9	46.2	50.7	55.2	21. 24. 28.74		29.00				21. 25. 15.29	- 1.60			
	5	β Aquarii	B	...	9.1	11.6	16.5	19.0	21.6	28.9	31.5	34.0	...	21. 25. 21.58		22.21	8.46	46.25		21. 26. 8.50	- 3.44			
	6	Groombridge 3487	B	48.9	52.9	56.9	5.0	8.9	13.1	24.9	29.1	33.1	37.3	21. 27. 13.07		13.36				21. 27. 59.65	- 1.85			
	7	Groombridge 3500	B	44.0	48.1	52.0	59.9	3.9	7.9	19.6	23.5	27.4	31.5	21. 30. 7.84		8.14				21. 30. 54.43	- 1.94			
	8	Oeltz. Arg. (N.) 22641	B	31.1	35.6	40.1	49.3	53.6	58.4	11.8	16.2	20.9	25.6	21. 34. 58.33		58.58				21. 35. 44.87	- 1.69			
	9	Groombridge 3536	B	31.9	36.4	41.1	50.1	54.6	59.4	12.6	17.1	21.8	26.3	21. 34. 59.20		59.45				21. 35. 45.74	- 1.69			
	10	Oeltz. Arg. (N.) 22648	B	33.1	37.6	42.2	51.2	55.9	0.4	14.0	18.2	23.1	27.6	21. 35. 0.40		0.65				21. 35. 46.94	- 1.69			
	11	δ Capricorni	B	...	21.9	24.4	29.6	32.2	34.9	42.5	45.1	47.8	...	21. 40. 34.85		35.56	21.79	46.23		21. 41. 21.85	- 3.77			
	12	Groombridge 3582	B	41.5	45.5	49.7	58.1	2.1	6.6	19.0	23.1	27.4	31.6	21. 45. 6.52		6.79				21. 45. 53.08	- 2.02			
	13	Groombridge 3587	B	...	...	...	...	34.2	38.5	50.9	55.1	59.3	3.7	21. 45. 38.53		38.80				21. 46. 25.09	- 2.03			
	14	Groombridge 3622	B	...	...	...	...	50.3	54.5	59.0	10.9	...	...	21. 51. 58.77		59.06				21. 52. 45.35	- 2.16			
	15	Groombridge 3624	B	...	...	3.6	11.9	15.6	20.0	32.0	36.1	...	...	21. 52. 19.95		20.24				21. 53. 6.53	- 2.17			
	16	α Aquarii	B	28.2	30.7	33.2	38.1	40.6	43.7	50.4	52.9	55.5	58.0	21. 59. 43.11		43.71	30.01	46.30		22. 0. 30.00	- 3.52			
	17	Groombridge 1609 S.P.	B	...	19.0	24.8	30.5	47.2	53.3	59.1	10.3	16.1	...	22. 0. 47.43		48.14				10. 1. 34.44	- 4.70			
	18	θ Aquarii	H	...	25.3	27.9	32.6	35.2	37.8	45.2	47.8	50.2	...	22. 10. 37.80		38.44	24.44	46.00	45.85	22. 11. 24.46	- 3.73			
	19	θ Aquarii (E&E)	H	10.4	25.2	40.3	...	10.5	25.3	40.3	...	...	...	22. 10. 37.39		38.03	24.44	46.41		...				
	20	σ Aquarii	H	...	13.1	15.6	20.5	23.1	25.8	33.1	35.6	38.2	...	22. 24. 25.68		26.34	12.44	46.10		22. 25. 12.36	- 3.85			
	21	B.D. - 14° No. 6301	H	38.5	41.1	43.6	48.8	51.2	54.0	...	...	...	...	22. 25. 53.86		54.54				22. 26. 40.56	- 3.92			
	22	B.D. + 0° No. 4889	H	...	...	...	...	12.9	15.4	22.5	24.8	27.4	30.0	22. 26. 15.22		15.81				22. 27. 1.83	- 3.65			
	23	Groombridge 3887	H	...	...	24.5	55.3	10.4	26.9	12.6	28.3	...	...	22. 38. 26.64		26.13				22. 39. 12.15	- 0.86			
	24	Oeltz. Arg. (N.) 11509 S.P.	H	8.1	14.9	22.0	28.9	49.0	56.1	2.9	16.4	23.4	30.1	23. 4. 49.08		49.87				11. 5. 35.89	- 3.36			
	25	Oeltz. Arg. (N.) 11921 S.P.	H	6.0	13.5	20.9	27.9	52.0	59.9	...	...	...	...	23. 31. 51.71		52.56				11. 32. 38.59	- 2.56			
	26	Groombridge 4112	H	...	...	16.3	25.5	30.2	35.1	49.1	53.7	...	...	23. 33. 35.07		35.30				23. 34. 21.33	- 3.70			
	27	Ceres	H	53.1	55.8	58.2	...	...	8.5	...	18.9	21.4	24.0	23. 54. 8.59		9.28				23. 54. 55.31				
	28	2 Ceti	H	26.7	29.3	32.0	37.0	39.6	42.2	50.0	52.5	55.2	57.9	23. 57. 42.28		42.99	29.02	46.03		23. 58. 29.02	- 4.29			
	29	B.D. + 68° No. 673 S.P.	H	...	...	...	...	...	...	...	44.0	50.2	57.1	0. 0. 17.05		17.83			46.03	12. 1. 3.86	- 1.88			
	30	Radcliffe 56	H	11.2	27.3	39.6	2.2	16.7	36.1	2.1	17.1	32.2	57.4	0. 15. 28.80		21.50				0. 16. 7.53	- 33.81			
	31	Oeltz. Arg. (N.) 559	H	10.5	14.2	18.4	26.0	30.0	33.9	45.5	49.4	53.1	57.2	0. 31. 33.88		34.18				0. 32. 20.21	- 4.47			
	32	Oeltz. Arg. (N.) 696	H	...	...	59.3	7.6	12.1	16.2	29.6	33.5	...	...	0. 39. 16.46		16.73				0. 40. 2.76	- 4.69			
	33	20 Ceti	H	...	46.8	49.4	54.1	56.7	59.5	6.6	8.9	11.5	...	0. 46. 59.24		59.85	45.77	45.92		0. 47. 45.89	- 4.27			
	34	20 Ceti (E&E)	H	32.1	47.0	1.9	...	31.7	46.4	1.2	...	...	...	0. 46. 58.65		59.26	45.77	46.51		...				
	35	μ Andromedæ	H	58.0	1.1	4.2	10.4	13.6	16.6	26.0	29.3	32.4	35.7	0. 50. 16.78		17.17	3.08	45.91		0. 51. 3.21	- 4.45			
	36	Groombridge 217	H	...	...	52.0	59.4	2.7	6.5	17.4	20.9	...	...	0. 56. 6.55		6.88				0. 56. 52.92	- 4.69			
	37	Polaris	H	32.9	42.0	50.0	14.1	23.5	31.9	51.8	0.7	9.0	31.6	1. 21. 14.77		8.12	53.07	44.95		1. 21. 54.16	- 59.22			
	38	Groombridge 320	H	...	...	...	...	17.9	22.9	37.5	42.2	47.4	52.1	1. 22. 22.91	- 0.45	22.73				1. 23. 8.77	- 5.61			
	39	Sappho	H	...	32.8	35.2	40.1	42.6	45.4	52.8	55.5	58.0	...	1. 32. 45.35		45.68				1. 33. 31.72				
	40	σ Arietis	H	47.9	50.4	53.1	58.1	0.5	3.4	10.9	13.4	16.0	18.6	2. 45. 3.27		3.58	49.60	46.02		2. 45. 49.63	- 4.67			
	41	Groombridge 2106 S.P.	H	...	...	...	...	19.5	40.2	59.8	39.9	0.4	20.0	2. 56. 19.59		22.85				14. 57. 8.90	+ 12.56			
	42	B.D. + 48° No. 857	H	22.0	26.0	29.7	36.6	40.7	44.5	55.8	59.5	2.7	6.9	3. 2. 44.50		44.52				(3. 3. 30.57)	- 5.91			
	43	Groombridge 2283 S.P.	H	22.1	36.0	45.5	8.0	17.9	33.9	49.2	34.7	43.6	59.0	3. 9. 7.98	+ 2.52	12.10				15. 9. 58.15	+ 45.14			
	44	7 Tauri (2nd Star)	H	20.9	23.5	26.2	31.6	34.4	37.6	44.9	47.8	50.4	53.5	3. 27. 37.12		37.59				3. 28. 23.65	- 4.96			
	45	B.D. + 28° No. 560	H	...	13.1	16.0	21.4	24.2	...	35.4	38.1	41.0	...	3. 33. 27.09		27.54				3. 34. 13.60	- 5.10			
	46	Piazzi III. 147	H	49.6	52.2	55.1	0.5	3.2	6.0	13.9	16.6	19.5	22.2	3. 40. 5.92		6.39				3. 40. 52.45	- 4.98			
	47	ω Tauri	H	8.9	11.5	14.1	19.6	22.1	24.9	32.4	35.1	37.7	40.3	4. 2. 24.70		25.20	11.18	45.98		4. 3. 11.26	- 4.86			
	48	ε Virginis	AC	59.9	2.4	4.9	10.0	12.5	15.0	22.2	25.0	27.6	30.1	12. 56. 15.00		15.53	2.04	46.51	46.35	12. 57. 1.97	- 2.06			
	49	Polaris S.P. ... R.	AC	28.3	34.0	40.8	47.1	45.6	51.5	56.6	2.2	...	...	13. 20. 56.06		4.74	53.02	48.28	[+ 0.17]	1. 21. 51.18	- 59.17			
	50	Polaris S.P.	AC	36.7	41.1	30.7	37.1	52.2	58.8	7.7	15.9	35.6	42.0	13. 20. 59.72		7.22	53.02	45.80		1. 21. 53.66	- 59.17			
	51	Arcturus	R.	54.0	56.7	59.4	4.5	7.2	9.9	...	...	...	...	14. 10. 9.84		10.30	56.67	46.37		14. 10. 56.75	- 1.64			
Nov. 5	52	⊙ 1 L.	AC	...	...	...	32.0	34.8	37.5	45.0	47.6	50.1	52.9	14. 42. 37.37						14. 44. 31.91				
	53	⊙ 2 L.	AC	36.7	39.2	42.0	46.9	49.5	52.1	59.9	2.4	4.9	7.6	14. 44. 52.16										

For Nos. 38 to 42. Reading of Transit-Micrometer, 35"680.

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 19 and 34, - 77"97 and - 78"10.

2. Observed over wire T with the transit-micrometer set to readings 34"800, 35"000, 35"200, 35"400, 35"600, 35"800, 36"000, 36"200, 36"400.

22, 42. Observed in dark field with wires illuminated.

30. Observed over wire T with the transit-micrometer set to readings 34"039, 34"170, 34"271, 34"453, 34"555, 34"703, 34"905, 35"035, 35"138, 35"340.

37. Observed over wire R with the transit-micrometer set to readings 34"633, 34"710, 34"772, 35"000, 35"075, 35"142, 35"322, 35"390, 35"468, 35"681.

43. Observed over wire T with the transit-micrometer set to readings 37"371, 37"132, 36"977, 36"589, 36"422, 36"172, 35"920, 35"169, 34"999, 34"773.

49. Observed over wire V with the transit-micrometer set to readings 36"087, 36"027, 35"967, 35"906, 35"840, 35"355, 35"312, 35"272.

50. Observed over wire U with the transit-micrometer set to readings 34"939, 34"904, 34"472, 34"422, 34"280, 34"224, 34"153, 34"085, 33"909, 33"851.

1898

Nov. 5

MONTH AND DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].							
				s	s	s	s	s	s	s	s	s	s		"							

1	α Herculis	AC	53.9	56.2	58.9	4.0	6.5	9.1	...	...	...	...	17. 9. 9.10	+ 2.52		9.59	55.96	46.37	46.35	17. 9. 56.06	- 1.70
2	α Ophiuchi	AC	6.0	8.5	11.1	16.0	18.6	21.2	28.7	31.4	33.7	36.3	17. 29. 21.19	(+ 0.25)		21.71	8.17	46.46	[+ 0.17]	17. 30. 8.18	- 1.82
3	β Ophiuchi	AC	20.1	22.7	25.1	30.0	32.5	35.1	42.4	44.9	47.4	50.0	17. 37. 35.06	[+ 8.04]		35.63	22.09	46.46		17. 38. 22.10	- 2.05
4	δ Ursæ Minoris...	AC	44.3	50.5	58.5	5.4	25.7	34.3	48.1	57.0	...	...	18. 4. 31.49			29.34				18. 5. 15.82	+ 35.88
5	Cephei 51 S.P. ...	AC	21.0	29.4	37.2	45.8	8.0	14.6	22.2	33.1	56.5	3.9	18. 51. 42.53			46.08				6. 52. 32.56	- 47.58
6	λ Ursæ Minoris...	AC	22.6	28.7	34.9	41.4	3.1	10.5	17.4	24.4	49.4	56.2	19. 24. 32.51			24.32				19. 25. 10.81	+ 109.67
7	γ Aquilæ	AC	19.2	21.9	24.3	29.3	31.9	34.5	41.8	44.2	46.8	49.4	19. 40. 34.37			34.91	21.31	46.40		19. 41. 21.40	- 2.44
8	Groomb. 1119 S.P. AC		53.1	59.7	6.0	13.9	35.9	42.6	48.4	56.2	...	...	19. 54. 22.55			31.22				7. 55. 17.71	- 102.10
9	Groombridge 3548	AC	50.2	56.0	2.9	11.2	32.0	40.6	49.6	58.0	...	...	21. 19. 20.40			18.25				21. 20. 4.75	+ 16.42
10	Groombridge 3642	AC	33.9	38.5	43.6	54.0	59.1	4.1	19.5	24.8	29.6	35.0	21. 55. 4.29			4.49				21. 55. 51.00	- 1.75
11	α Aquarii	WS	28.1	30.6	33.1	38.0	40.5	43.1	50.1	52.8	55.2	58.0	21. 59. 42.99			43.59	30.00	46.41	46.28	.....	.....
12	ι Pegasi	WS	10.0	12.6	15.5	20.6	23.5	26.1	34.3	37.0	39.7	42.6	22. 1. 26.33			26.69	13.16	46.47		.....	.....
13	Oeltz. Arg. (N.) 23462	AC	...	...	47.6	56.4	0.8	5.4	18.5	23.0	...	...	22. 3. 5.37			5.63			46.35	22. 3. 52.14	- 2.17
14	Groombridge 3693	AC	...	...	...	24.5	28.9	33.5	46.4	51.1	55.4	0.0	22. 3. 33.44			33.69				22. 4. 20.20	- 2.17
15	θ Aquarii	AC	22.2	24.7	27.3	32.1	34.9	37.4	44.8	47.3	49.8	52.3	22. 10. 37.32			37.97	24.43	46.46		22. 11. 24.48	- 3.72
16	η Aquarii	AC	2.5	4.9	7.4	12.2	14.8	17.3	24.6	27.1	29.5	32.0	22. 29. 17.27			17.87	4.34	46.47		22. 30. 4.38	- 3.67
17	Fomalhaut	AC	54.1	56.8	59.6	5.3	8.1	11.1	19.8	22.6	25.5	28.4	22. 51. 11.17			11.97	55.59	46.62		22. 51. 58.48	- 4.37
18	α Pegasi	AC	36.0	38.5	41.1	46.1	48.8	51.4	58.9	1.4	4.0	6.6	22. 58. 51.32			51.83	38.38	46.55		22. 59. 38.34	- 3.62
19	Oeltz. Arg. (N.) 11509 S.P. II	AC	7.4	14.0	21.5	28.2	48.1	55.2	2.0	15.8	22.3	29.9	23. 4. 48.34			49.17				11. 5. 35.68	- 3.42
20	Piazzi XI. 43 S.P. AC		21.6	27.4	33.2	39.2	...	2.4	8.6	19.8	25.6	31.5	23. 15. 56.49			57.20				11. 16. 43.71	- 3.06
21	κ Piscium	AC	38.0	40.5	42.9	47.8	50.1	52.9	0.2	2.7	5.1	7.8	23. 20. 52.84			53.43	39.94	46.51		23. 21. 39.95	- 3.92
22	Bradley 3147	AC	6.1	12.0	18.5	26.2	46.3	51.7	57.1	2.9	...	...	23. 27. 9.96			7.71				23. 27. 54.23	- 5.03
23	Lalande 1690	AC	12.8	16.8	20.5	27.4	30.9	34.7	45.1	48.7	52.3	56.0	0. 53. 34.57			34.90			46.52	0. 54. 21.43	- 4.63
24	Carrington 161	AC	50.0	6.6	22.1	54.0	10.3	28.0	15.3	31.4	47.4	4.5	1. 2. 27.20			26.66				1. 3. 13.19	- 10.05
25	θ Ceti	AC	51.7	54.1	56.6	1.6	4.1	6.5	14.0	16.5	19.0	21.6	1. 18. 6.61			7.26	53.79	46.53		1. 18. 53.79	- 4.36
26	Polaris	AC	26.1	32.9	38.9	44.0	5.4	14.7	22.9	32.1	53.1	59.9	1. 21. 13.15			6.50	52.97	46.47		1. 21. 53.03	- 59.12
27	W. B. (2) I. 425	AC	11.3	14.6	18.0	24.7	28.2	31.7	41.8	45.1	48.8	52.0	1. 21. 31.67			32.02				1. 22. 18.55	- 4.84
28	Piazzi XIII. 100 S.P. AC		...	...	...	...	10.1	14.1	18.2	26.0	30.0	34.0	1. 23. 10.23			10.78				13. 23. 57.31	- 1.24
29	Carrington 218	AC	54.8	28.4	44.8	51.0	7.4	...	...	...	...	...	1. 31. 1.28			59.66				1. 31. 46.19	- 20.68
30	Groomb. 2046 S.P. AC		58.0	4.9	13.1	20.8	43.4	...	...	...	...	...	1. 39. 43.12			43.96				13. 40. 30.49	+ 1.01
31	Piazzi XIII. 200 S.P. AC		...	14.2	18.6	23.1	36.5	40.8	45.1	53.9	58.8	...	1. 40. 36.29			36.90				13. 41. 23.43	- 0.75
32	β Arietis	AC	55.3	58.0	0.5	5.9	8.5	11.1	18.9	21.5	24.1	26.9	1. 48. 11.11			11.60	58.14	46.54		1. 48. 58.13	- 4.58
33	α Arietis	AC	20.1	22.8	25.4	30.7	33.2	36.1	44.1	46.9	49.5	52.1	2. 0. 36.13			36.61	23.22	46.61		2. 1. 23.14	- 4.68
34	B. D. + 63° No. 305	AC	42.9	48.6	54.1	5.8	11.3	16.9	32.9	39.5	44.8	50.8	2. 5. 16.84			17.00				2. 6. 3.53	- 6.71
35	Radcliffe 698	AC	50.9	54.8	59.0	7.5	11.6	15.9	28.2	32.9	35.5	39.5	2. 16. 15.55			15.82				2. 17. 2.36	- 5.87
36	Groombridge 505	AC	...	1.9	6.1	14.5	...	23.4	...	...	44.0	48.0	2. 16. 23.01			23.28				2. 17. 9.82	- 5.87
37	Piazzi II. 60	AC	...	...	...	24.9	41.5	57.9	46.1	...	...	...	2. 21. 57.94			57.39				2. 22. 43.93	- 14.31
38	Groomb. 2122 S.P. AC		...	...	...	30.0	35.1	40.0	50.1	55.5	0.4	2. 27. 29.93			30.59					14. 28. 17.13	+ 0.28
39	Oeltz. Arg. (N.) 14718 S.P. AC		...	...	...	...	34.4	43.1	57.9	6.1	14.6	2. 30. 26.56			27.43					14. 31. 13.97	+ 2.43
40	W. B. II. 612	AC	3.7	6.1	8.8	13.7	16.2	18.9	26.2	28.9	31.7	34.1	2. 37. 18.87			19.38				2. 38. 5.92	- 4.67
41	Piazzi XIV. 203 S.P. AC		...	48.9	53.8	57.9	10.5	14.9	19.1	27.5	31.6	...	2. 45. 10.45			11.03				14. 45. 57.57	- 0.14
42	Groombridge 586	AC	52.9	56.7	0.4	9.3	13.2	17.1	29.1	32.9	37.2	41.1	2. 49. 17.05			17.34				2. 50. 3.88	- 6.06
43	Groombridge 582	AC	12.9	26.5	40.9	8.8	22.6	37.9	19.6	33.0	47.4	1.8	2. 54. 37.35			36.94				2. 55. 23.48	- 14.05
44	B. D. + 48° No. 857	AC	20.8	24.5	28.4	35.9	39.5	43.4	54.4	57.9	2.0	5.6	3. 2. 43.30			43.62				3. 3. 30.16	- 5.93
45	Groomb. 2283 S.P. AC		24.6	30.9	36.9	43.6	5.9	14.0	20.0	27.9	...	...	3. 9. 8.04			12.16				15. 9. 58.70	+ 45.34
46	τ Arietis	AC	15.1	17.7	20.6	25.7	28.3	31.1	38.8	41.6	44.2	46.9	3. 14. 31.04			31.53	18.11	46.58		3. 15. 18.07	- 4.86
47	Groomb. 2224 S.P. AC		...	43.5	49.0	54.4	10.5	16.0	21.4	32.0	37.6	...	3. 17. 10.44			11.11				15. 17. 57.65	+ 1.13
48	σ Tauri	AC	15.4	17.8	20.5	25.4	28.0	30.5	37.8	40.3	42.8	45.5	3. 18. 30.44			30.99	17.51	46.52		3. 19. 17.53	- 4.62
49	B. D. + 12° No. 485	C	33.8	36.1	38.7	43.5	46.1	48.7	56.5	58.9	1.3	3.8	3. 23. 48.78			49.30			46.48	3. 24. 35.81	- 4.70
50	ρ Tauri	C	10.1	12.7	15.1	20.4	22.9	25.4	32.9	35.6	38.1	40.6	3. 24. 25.42			25.94	12.47	46.53	[+ 0.18]	3. 25. 12.45	- 4.70
51	Carrington 2363 S.P. AC		58.5	14.0	27.9	4.3	16.2	25.3	47.0	58.1	7.5	41.2	3. 27. 2.58			6.35				15. 27. 52.86	+ 42.85
52	δ Eridani	C	18.0	20.5	23.0	28.0	30.5	33.0	40.5	43.3	45.6	48.0	3. 27. 33.08			33.74	20.24	46.50		3. 28. 20.25	- 4.35
53	B. D. + 44° No. 819	C	33.6	37.2	41.3	47.7	51.4	55.2	5.1	8.8	12.1	15.6	3. 49. 54.85			55.20				3. 50. 41.71	- 5.91
54	A ι Tauri	C	34.5	37.3	40.0	45.1	48.0	50.6	58.2	1.1	3.9	6.6	3. 57. 50.57			51.06	37.66	46.60		3. 58. 37.57	- 4.95

4. Observed over wire T with the transit-micrometer set to readings 35^m909, 36^m054, 36^m241, 36^m405, 36^m895, 37^m106, 37^m424, 37^m644.
5. Observed over wire U with the transit-micrometer set to readings 36^m690, 36^m458, 36^m300, 36^m140, 35^m690, 35^m575, 35^m400, 35^m189, 34^m732, 34^m600.
6. Observed over wire T with the transit-micrometer set to readings 36^m398, 36^m439, 36^m479, 36^m522, 36^m686, 36^m732, 36^m775, 36^m825, 36^m999, 37^m050.
8. Observed over wire X with the transit-micrometer set to readings 38^m365, 38^m320, 38^m271, 38^m186, 38^m045, 37^m996, 37^m952, 37^m891.
9. Observed over wire R with the transit-micrometer set to readings 34^m031, 34^m177, 34^m330, 34^m524, 35^m042, 35^m233, 35^m443, 35^m661.
22. Observed over wire Q with the transit-micrometer set to readings 35^m482, 35^m672, 35^m826, 36^m280, 36^m422, 36^m525, 36^m680.
26. Observed over wire O with the transit-micrometer set to readings 34^m888, 34^m929, 34^m991, 35^m054, 35^m248, 35^m322, 35^m385, 35^m480, 35^m651, 35^m713.
29. Observed over wire T with the transit-micrometer set to readings 33^m600, 34^m600, 35^m100, 37^m100, 37^m600.
34, 42, 44. Observed in dark field with wires illuminated.
45. Observed over wire U with the transit-micrometer set to readings 35^m370, 35^m305, 35^m194, 35^m071, 34^m677, 34^m542, 34^m405, 34^m305.
51. Observed over wire P with the transit-micrometer set to readings 36^m250, 35^m968, 35^m702, 35^m034, 34^m813, 34^m660, 34^m460, 34^m057, 33^m872, 33^m282.

MONTH and DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.				
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Level].						h m s	s	s		s	h m s	s	
															[Azimuth].													#
Nov. 5	1	Groomb. 2324 S.P.	C	42'1	47'3	52'2	57'3	12'0	17'1	22'0	31'2	37'0	41'7	4. 8. 11'92	+ 2'52	12'57			46'48	16. 8. 59'08	+ 1'07							
	2	B. F. 522	C	...	22'8	...	...	...	...	...	1'6	6'4	11'0	4. 12. 44'42	(+ 0'25)	44'67			[+ 0'18]	4. 13. 31'18	- 6'97							
	3	70 Tauri	C	43'2	45'9	48'5	53'5	56'1	58'9	6'4	8'9	11'5	14'1	4. 18. 58'74	[+ 8'04]	59'24				4. 19. 45'75	- 4'78							
	4	ε Tauri	C	34'8	37'2	39'9	45'2	48'0	50'5	58'2	0'8	3'2	6'1	4. 21. 50'43		50'93	37'42	46'49		4. 22. 37'44	- 4'87							
	5	Groombridge 862	C	13'5	16'5	...	...	32'0	35'5	47'8	51'2	54'9	...	4. 33. 35'99		36'31				4. 34. 22'82	- 6'38							
	6	μ Eridani	C	20'4	22'8	25'6	30'2	32'9	35'4	42'5	45'0	47'6	50'1	4. 39. 35'29		35'91	22'40	46'49		4. 40. 22'42	- 4'32							
	7	Groomb. 2391 S.P.	C	38'5	51'1	3'1	14'3	48'9	1'1	12'3	35'1	46'6	58'1	4. 46. 48'74		49'85				16. 47. 36'37	+ 7'71							
	8	h Draconis S.P.	C	3'2	9'0	14'8	20'6	38'0	44'2	50'0	1'7	8'0	13'7	4. 54. 38'23		38'95				16. 55. 25'47	+ 2'17							
	9	ε Leporis	C	4'1	6'8	9'5	14'6	17'5	20'2	28'0	30'7	33'4	36'1	5. 0. 20'13		20'87	7'39	46'52		5. 1. 7'39	- 3'93							
	10	Rigel	C	34'1	36'8	39'3	44'1	46'9	49'5	56'7	59'4	2'0	4'1	5. 8. 49'33		49'98	36'48	46'50		5. 9. 36'50	- 4'14							
	11	Neptune	C	...	3'4	6'0	11'5	14'0	16'6	24'5	27'4	30'0	...	5. 15. 16'73		17'22				5. 16. 3'74								
	12	β Leonis	B	45'1	47'6	50'3	55'4	57'9	0'6	8'1	10'8	13'3	16'0	11. 43. 0'55	(+ 0'49)	1'08	47'71	46'63	46'47	11. 43. 47'64	- 2'47							
	13	γ Ursæ Majoris	B	11'8	16'0	20'3	28'5	32'8	37'1	49'7	53'9	58'0	2'5	11. 47. 37'12		37'42				11. 48. 23'98	- 2'52							
	14	β Cassiopeiæ S.P.	B	26'1	31'1	36'0	40'8	54'6	59'5	4'2	13'7	18'2	23'1	12. 2. 54'66		55'28				0. 3. 41'84	- 4'24							
	15	κ Draconis	B	32'8	39'9	47'5	1'9	9'4	16'9	38'4	46'0	53'2	0'9	12. 28. 16'80		16'87				12. 29. 3'43	- 1'01							
	16	α Cassiopeiæ S.P.	B	27'3	32'0	36'1	40'8	53'8	58'1	2'5	11'4	16'0	20'2	12. 33. 53'75		54'34				0. 34. 40'90	- 4'64							
	17	ε Ursæ Majoris	B	14'9	19'4	24'0	32'8	37'3	41'9	...	...	...	...	12. 48. 41'84		42'11				12. 49. 28'68	- 1'50							
	18	α Canum Venaticum	B	5'6	8'7	12'0	18'1	21'4	24'7	34'0	37'1	40'3	43'8	12. 50. 24'62		25'02				12. 51. 11'59	- 1'91							
	19	ε Virginis	B	...	2'2	4'8	9'9	12'1	14'9	22'3	24'9	27'5	...	12. 56. 14'88		15'43	2'06	46'63		12. 57. 2'00	- 2'08							
	20	ζ ¹ Ursæ Majoris	B	32'2	36'5	41'1	49'5	54'0	58'4	11'4	15'7	20'1	24'5	13. 18. 58'40		58'69				13. 19. 45'26	- 1'11							
	21	ζ ² Ursæ Majoris	B	33'3	37'5	41'9	50'5	54'9	59'4	12'2	16'5	20'9	25'5	13. 18. 59'32		59'61				13. 19. 46'18	- 1'11							
	22	Polaris S.P.	B	26'1	33'3	39'1	45'0	56'0	7'6	18'5	24'0	29'5	37'7	13. 21. 1'68		8'61	52'91	44'30		1. 21. 55'18	- 59'06							
	23	η Ursæ Majoris	B	...	...	...	32'9	36'6	40'6	52'0	55'8	59'6	3'6	13. 42. 40'61		40'94				13. 43. 27'51	- 1'08							
	24	η Boötis	C	42'9	45'6	48'2	53'4	56'0	58'8	6'4	9'1	11'8	14'4	13. 48. 58'70		59'21	45'75	46'54	46'48	13. 49. 45'79	- 1'81							
	25	Mercury 1 L.	B	38'9	41'3	...	...	...	54'0	...	...	6'5	9'2	13. 58. 53'97		54'88			46'47	13. 59. 41'45								
	26	Mercury 2 L.	B	...	...	44'2	49'4	51'9	...	...	2'0	4'4	...	13. 58. 54'44		10'08	56'68	46'60	46'48	14. 10. 56'67	- 1'65							
	27	Arcturus	C	53'9	56'3	58'9	4'4	6'9	9'6	17'4	20'0	22'6	25'3	14. 10. 9'57		35'60	22'27	46'67	46'47	14. 27. 22'18	- 1'42							
	28	ρ Boötis	B	17'9	20'8	23'7	29'4	32'1	35'1	...	...	...	...	14. 26. 35'15		7'90				14. 27. 54'48	- 1'17							
	29	γ Boötis	B	...	51'6	54'9	1'1	4'2	7'5	16'9	20'0	23'3	...	14. 27. 7'50		41'31				14. 40. 27'89	- 1'45							
	30	ε ¹ Boötis	B	50'8	7'4	24'1	...	...	...	...	57'6	14'1	30'9	14. 39. 40'85		41'50	28'12	46'62		14. 40. 28'08	- 1'45							
	31	ε ² Boötis	B	...	27'0	30'0	35'4	38'2	41'1	49'3	52'0	54'9	...	14. 39. 41'04														
Nov. 6	32	⊙ 1 L.	B	21'1	23'6	26'2	31'3	34'0	36'5	44'1	46'9	49'5	52'1	14. 46. 36'57		44'82				14. 48. 31'40								
	33	⊙ 2 L.	B	36'1	38'6	41'4	46'5	48'9	51'6	59'3	2'0	4'5	7'2	14. 48. 51'65		9'74				14. 50. 56'32	+ 3'88							
	34	β Ursæ Minoris	B	...	...	...	50'9	0'1	10'0	37'4	46'6	56'0	5'5	14. 50. 9'79		15'88				14. 58. 2'46	- 0'93							
	35	β Boötis	B	...	...	...	8'9	12'0	15'6	25'1	28'4	31'8	35'1	14. 57. 15'49		33'07				15. 11. 19'65	- 1'16							
	36	δ Boötis	B	14'9	17'8	20'9	26'6	29'5	32'7	41'4	44'4	47'3	50'4	15. 10. 32'63		3'29				15. 20. 49'88	+ 3'45							
	37	γ Ursæ Minoris	B	...	...	31'1	46'9	54'9	3'2	27'1	35'4	...	...	15. 20. 3'26		49'48				15. 22. 36'07	+ 0'66							
	38	ε Draconis	B	20'2	24'9	30'0	39'5	44'2	49'2	3'6	8'4	13'4	18'2	15. 21. 49'23		31'68	18'36	46'68		15. 30. 18'27	- 1'33							
	39	α Coronæ	B	14'6	17'3	20'1	25'6	28'4	31'2	39'4	42'1	45'1	47'9	15. 29. 31'21		36'43				15. 34. 23'02	+ 6'80							
	40	θ Ursæ Minoris	B	...	...	...	...	...	...	10'9	22'2	34'6	46'2	15. 33. 36'62		23'84	10'46	46'62		15. 39. 10'43	- 1'79							
	41	α Serpentis	B	8'2	10'9	13'3	18'5	20'8	23'3	30'5	33'1	35'6	38'1	15. 38. 23'27		52'18				15. 47. 38'77	+ 7'35							
	42	ζ Ursæ Minoris	B	40'2	52'1	4'1	28'1	40'5	52'9	27'9	39'9	52'0	4'4	15. 46. 52'39		34'75	21'37	46'62		16. 17. 21'34	- 1'50							
	43	γ Herculis	B	18'5	21'1	23'7	29'0	31'6	34'2	42'0	44'6	47'3	50'0	16. 16. 34'24		39'51				16. 20. 26'10	+ 6'22							
	44	η Ursæ Minoris	B	...	...	...	...	...	...	9'9	20'0	30'4	40'8	16. 19. 39'61		46'73				16. 22. 33'32	+ 1'39							
	45	η Draconis	B	...	...	...	36'0	41'1	46'6	2'0	7'1	12'4	17'8	16. 21. 46'50		59'71				16. 25. 46'30	- 1'42							
	46	β Herculis	B	43'4	45'9	48'6	53'9	56'4	59'2	7'0	9'6	12'4	15'3	16. 24. 59'21		36'28	22'94	46'66		16. 37. 22'87	- 1'04							
	47	ζ Herculis	B	18'4	21'2	24'1	30'0	32'8	36'0	44'5	47'3	50'2	53'4	16. 36. 35'83		33'85				16. 39. 20'44	- 0'71							
	48	η Herculis	B	14'2	17'5	20'7	27'0	30'1	33'6	42'9	46'0	49'3	52'6	16. 38. 33'44		59'83	46'46	46'63		16. 52. 46'43	- 1'79							
	49	κ Ophiuchi	B	...	...	49'4	54'2	56'7	59'3	6'6	9'1	...	...	16. 51. 59'27		33'07	19'67	46'60		16. 56. 19'67	- 1'10							
	50	ε Herculis	B	15'4	18'1	21'1	26'7	29'8	32'5	41'2	44'0	46'9	50'0	16. 55. 32'61		52'09				16. 57. 38'69								
	51	Venus 1 L.	B	34'5	37'2	40'1	45'1	48'1	50'9	58'9	1'6	4'3	7'1	16. 56. 58'82		9'60	55'96	46'36	46'27	.....								
	52	Venus 2 L.	B	35'4	38'1	41'0	46'2	49'0	51'9	59'6	2'4	5'1	8'0	16. 56. 51'84														
	53	α ¹ Herculis	HF	53'7	56'3	59'0	3'9	6'5	9'1	16'6	19'1	21'8	24'3	17. 9. 9'07														

5. Very faint.

22. Observed over wire T with the transit-micrometer set to readings 35° 900, 35° 850, 35° 800, 35° 750, 35° 650, 35° 550, 35° 450, 35° 400, 35° 350, 35° 300.

25. A correction of - 0° 03, for defect of illumination, has been applied in forming the concluded transit.

30. Observed over wires M, N, O, X, Y and Z.

51, 52. Very unsteady.

52. A correction of + 0° 13, for defect of illumination, has been applied in forming the concluded transit.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

189860AMX.59

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1960.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation.	[Azimuth].							
																							(Level).
s	s	s	s	s	s	s	s	s	s	h	m	s	''	s	s	s	s	h	m	s	s		
Nov. 6	1	α Ophiuchi	HF	5'9	8'5	11'1	16'0	18'5	21'1	28'9	31'3	33'8	36'4	17. 29. 21'19	+ 2'52	21'73	8'17	46'44	46'27	.....			
	2	β Ophiuchi	W	20'2	22'5	25'1	30'0	32'4	34'9	42'3	44'7	47'4	50'0	17. 37. 34'99	(+ 0'49)	35'57	22'09	46'52	[+ 0'18]	17. 38. 22'12	- 2'05		
	3	μ Herculis	W	...	23'5	26'2	31'9	34'6	37'5	45'9	48'6	51'4	...	17. 41. 37'50	[+ 8'04]	37'96	24'55	46'59	46'42	17. 42. 24'51	- 1'31		
	4	ξ Draconis	B	29'1	33'5	38'0	47'0	51'6	56'2	9'6	14'1	18'6	23'2	17. 50. 56'16		56'44			46'47	17. 51. 43'04	+ 0'70		
	5	γ Draconis	B	13'0	36'9	...	...	...	...	...	44'0	48'1	11'9	17. 53. 24'39		24'71				17. 54. 11'31	+ 0'11		
	6	ζ Ophiuchi	B	...	...	30'0	34'9	37'4	40'0	47'3	49'9	...	...	18. 1. 39'97		40'53	27'09	46'56		18. 2. 27'14	- 1'99		
	7	θ Herculis	B	26'3	29'1	32'0	37'6	40'5	43'4	51'5	54'4	57'3	0'1	18. 2. 43'26		43'72				18. 3. 30'33	- 1'35		
	8	δ Ursæ Minoris...	B	12'0	17'1	21'4	25'9	32'4	37'8	56'0	1'4	6'2	10'5	18. 4. 31'24		29'31				18. 5. 15'92	+ 36'24		
	9	Cephei 51 S.P.	B	52'7	8'7	17'9	28'2	37'8	48'5	59'0	8'7	18'9	34'1	18. 51. 43'45		46'76				6. 52. 33'37	- 48'08		
	10	ϵ Aquilæ	B	53'6	56'1	58'9	3'9	6'4	9'1	...	...	...	...	18. 54. 9'02		9'55	56'14	46'59		18. 54. 56'16	- 2'05		
	11	γ Lyræ	B	...	...	...	...	...	...	26'1	29'1	32'1	35'1	18. 54. 17'49		17'94				18. 55. 4'55	- 1'41		
	12	ζ Aquilæ	B	37'4	40'0	42'5	47'6	50'1	52'8	...	...	...	...	18. 59. 52'72		53'26	39'88	46'62		19. 0. 39'87	- 2'12		
	13	λ Aquilæ	B	...	...	...	...	...	...	6'5	8'9	11'4	14'0	18. 59. 59'11		59'75				19. 0. 46'36	- 2'63		
	14	π Sagittarii	B	34'4	36'9	39'8	44'9	47'6	50'4	58'1	0'8	3'5	6'2	19. 2. 50'30		51'04				19. 3. 37'65	- 3'02		
	15	δ Draconis	B	4'3	10'6	17'2	30'0	36'5	43'1	2'1	8'6	14'9	21'8	19. 11. 43'01		43'15				19. 12. 29'76	+ 1'98		
	16	κ Cygni	B	...	...	38'8	46'9	50'9	55'3	7'4	11'6	...	...	19. 13. 55'23		55'54				19. 14. 42'15	- 0'19		
	17	τ Draconis	B	...	...	8'7	25'6	34'0	42'9	8'0	16'5	...	...	19. 16. 42'79		42'80				19. 17. 29'41	+ 3'79		
	18	ι Aquilæ	B	0'7	3'1	5'8	10'7	13'4	15'8	23'1	25'8	28'3	30'9	19. 19. 15'80		16'35				19. 20. 2'96	- 2'33		
	19	λ Ursæ Minoris ..	B	46'9	54'6	1'5	8'4	15'1	42'0	49'9	56'9	4'2	10'9	19. 24. 29'04		21'56				19. 25. 8'18	+ 111'05		
	20	κ Aquilæ	B	18'3	20'9	23'5	28'2	30'7	33'5	40'7	43'1	45'8	48'2	19. 30. 33'33		33'98				19. 31. 20'60	- 2'83		
	21	Groombridge 2899 ..	B	19'3	24'8	30'4	41'3	46'6	52'2	8'3	14'0	19'5	25'1	19. 32. 52'23		52'43				19. 33. 39'05	+ 0'87		
	22	Groombridge 2917 ..	B	...	59'6	7'5	22'6	30'2	38'1	1'2	8'9	16'9	...	19. 34. 38'28		38'33				19. 35. 24'95	+ 2'77		
	23	Groombridge 2930 ..	B	...	...	...	...	...	...	56'9	6'0	15'0	24'2	19. 36. 30'12		30'09				19. 37. 16'71	+ 3'80		
	24	Groombridge 2935 ..	B	...	2'7	7'6	16'6	21'3	26'0	39'7	44'3	49'1	...	19. 40. 26'00		26'26				19. 41. 12'88	+ 0'13		
	25	Groombridge 2945 ..	B	5'2	9'7	14'1	23'2	27'8	32'3	45'6	50'1	54'9	59'5	19. 44. 32'31		32'59				19. 45. 19'21	- 0'11		
	26	ϵ Draconis	B	...	...	...	...	...	...	4'0	11'4	18'6	26'0	19. 47. 42'70		42'79				19. 48. 29'41	+ 2'10		
	27	β Aquilæ	B	12'7	15'1	17'8	22'6	25'1	27'7	34'9	37'5	40'0	42'5	19. 49. 27'63		28'20	14'81	46'61		19. 50. 14'82	- 2'59		
	28	Groombridge 1119 S.P.	B	19'5	33'4	46'1	58'5	13'0	38'5	53'1	5'6	20'0	32'7	19. 54. 26'04		34'04				7. 55. 20'66	- 103'44		
	29	Groombridge 3026 ..	B	20'5	24'9	29'6	38'7	43'4	48'0	1'5	6'0	10'6	15'4	19. 58. 47'93		48'20				19. 59. 34'82	- 0'22		
	30	δ Draconis	B	...	...	...	12'0	17'8	23'5	40'4	46'0	51'9	57'9	20. 0. 23'54		23'73				20. 1. 10'35	+ 0'67		
	31	Piazzi XX. 30 (N. Star)	B	...	...	...	12'8	18'4	24'0	40'3	...	...	...	20. 3. 24'00		24'19				20. 4. 10'81	+ 0'48		
	32	Piazzi XX. 30 (S. Star)	B	...	...	...	...	...	...	46'1	51'6	57'1	30'2	20. 3. 24'17		24'36				20. 4. 10'98	+ 0'48		
	33	Piazzi XX. 42 ...	B	4'5	10'0	15'6	...	...	...	...	59'5	5'0	10'7	20. 4. 37'61		37'80				20. 5. 24'42	+ 0'46		
	34	δ Draconis	B	34'4	39'5	44'9	55'1	0'3	5'8	21'1	26'4	31'8	37'1	20. 9. 5'72		5'95				20. 9. 52'57	+ 0'15		
	35	α Capricorni	B	53'7	56'1	58'8	3'8	6'2	8'9	16'4	19'1	21'5	24'1	20. 11. 8'90		9'57				20. 11. 56'19	- 3'19		
	36	α Capricorni	B	17'8	20'2	22'8	27'8	30'2	32'9	40'5	42'9	45'5	48'1	20. 11. 32'91		33'58	20'24	46'66		20. 12. 20'20	- 3'19		
	37	Groombridge 3162 ..	B	49'1	53'2	57'6	6'1	10'6	15'0	27'9	32'0	36'4	40'9	20. 18. 14'94		15'23				20. 19. 1'85	- 0'68		
	38	Groombridge 3176 ..	B	49'5	53'8	58'1	6'7	11'1	15'5	28'1	32'7	36'9	41'5	20. 21. 15'45		15'74				20. 22. 2'36	- 0'72		
	39	Groombridge 3180 ..	B	27'0	31'4	35'6	44'2	48'7	52'9	5'6	9'9	14'1	18'9	20. 21. 52'89		53'18				20. 22. 39'80	- 0'73		
	40	Groombridge 3194 ..	B	28'2	32'1	36'7	44'9	49'2	53'6	6'0	10'2	14'6	18'9	20. 24. 53'50		53'81				20. 25. 40'43	- 0'84		
	41	Bradley 2667 ... R.	B	0'1	15'5	18'1	20'7	...	...	...	...	...	...	20. 33. 30'91		31'38				20. 34. 18'00	- 2'61		
	42	Bradley 2667 ... B	B	...	...	...	...	...	...	41'1	43'6	46'2	17'0	20. 33. 30'90		31'43				20. 34. 18'05	- 2'61		
	43	α Delphini	B	...	...	53'5	58'8	1'2	4'0	11'5	14'0	...	...	20. 34. 3'88		4'41	51'02	46'61		20. 34. 51'03	- 2'61		
	44	γ Aquarii	R.	46'1	1'1	15'9	18'2	20'9	...	...	...	...	...	20. 41. 30'77		31'37				20. 42. 18'00	- 3'16		
	45	γ Aquarii	B	...	...	...	...	...	...	43'1	45'8	0'5	15'6	20. 41. 30'88		31'52				20. 42. 18'15	- 3'16		
	46	γ Draconis ... R.	B	...	...	...	37'4	54'9	14'2	...	...	...	...	20. 49. 13'83		12'85				20. 49. 59'48	+ 7'32		
	47	γ Draconis ... B	B	...	...	...	...	...	...	...	...	43'5	2'0	20. 49. 13'52		12'96				20. 49. 59'59	+ 7'32		
	48	σ Ursæ Maj. S.P. R.	B	56'2	2'9	9'3	15'9	...	...	...	...	...	...	20. 58. 34'69		35'52				8. 59. 22'15	- 6'51		
	49	σ Ursæ Maj. S.P. ...	B	...	...	...	...	35'0	41'5	47'8	0'3	6'9	13'5	20. 58. 34'93		35'68				8. 59. 22'31	- 6'51		
	50	α Equulei	B	...	41'1	43'7	48'4	50'9	53'5	0'8	3'2	5'8	...	21. 9. 53'48		54'06	40'57	46'51		21. 10. 40'69	- 3'10		
	51	Groombridge 3440 ..	B	59'2	3'3	7'9	16'6	21'1	25'7	38'5	43'1	47'6	52'1	21. 16. 25'58		25'86				21. 17. 12'49	- 1'40		
	52	Groombridge 3445 ..	B	...	...	57'1	5'8	10'1	14'7	28'0	32'2	...	...	21. 17. 14'74		15'02				21. 18. 1'65	- 1'41		
	53	Groombridge 3548 ..	B	18'6	24'0	29'9	34'5	57'6	4'5	10'0	22'1	27'5	32'0	21. 19. 20'55		18'62				21. 20. 5'25	+ 16'80		
	54	β Aquarii	B	6'2	8'9	11'4	16'1	18'6	21'2	28'5	31'0	33'5	36'1	21. 25. 21'19		21'83	8'44	46'61		21. 26. 8'46	- 3'42		

5. Observed over wires M, N, W, X and Y.

8. Observed over wire T with the transit-micrometer set to readings 35°150, 35°250, 35°350, 35°450, 35°534, 36°110, 36°200, 36°311, 36°425, 36°555.

9. Observed over wire T with the transit-micrometer set to readings 36°600, 36°700, 36°800, 36°900, 36°100, 36°200, 36°300, 36°400, 36°500, 36°600.

19. Observed over wire T with the transit-micrometer set to readings 35°300, 35°350, 35°400, 35°450, 35°500, 35°550, 35°600, 35°650, 35°700, 35°750, 35°800, 35°850, 35°900.

28. Observed over wire T with the transit-micrometer set to readings 36°100, 36°200, 36°300, 36°400, 36°500, 36°600, 36°700, 36°800, 36°900, 36°100, 36°200, 36°300, 36°400, 36°500, 36°600.

32. Observed over wires V, W, X and Y.

44. Observed over wires M, N, O, P and Q.

53. Observed over wire T with the transit-micrometer set to readings 35°555, 35°689, 35°820, 35°955, 36°503, 36°631, 36°770, 37°060, 37°184, 37°315.

41. Observed over wires N, O, P and Q.

42. Observed over wires V, W, X and Z.

45. Observed over wires W, X, Y and Z.

MONTH AND DAY.		No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896.0.				
MON.	DAY.				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].						S.	S.	S.		S.	l	m	s
																s	s												
1898 NOV.																													
Nov. 6	1	ε Pegasi	S	5'9	8'4	10'9	15'9	18'4	20'9	28'3	30'9	33'5	36'1	21. 38.	20'96	+ 2'52	21'52	7'80	46'28	46'14	.....	.....	.....						
	2	16 Pegasi	S	19'4	22'0	24'9	30'1	33'1	36'0	44'0	46'6	49'4	52'2	21. 47.	35'81	(+ 0'49)	36'29	22'61	46'32	[+ 0'18]	.....	.....	.....						
	3	θ Aquarii	HA	22'2	24'8	27'5	32'1	34'9	37'4	44'9	47'1	49'9	52'2	22. 10.	37'34	[+ 8'04]	38'00	24'42	46'42	46'31	.....	.....	.....						
	4	γ Aquarii	HA	18'5	21'1	23'5	28'6	30'9	33'6	40'9	43'1	45'9	48'3	22. 15.	33'48		34'10	20'63	46'53	.....	.....	.....	.....						
	5	Groombridge 3790	B	47'1	51'7	57'1	7'3	12'2	17'3	32'5	37'6	42'8	48'0	22. 24.	17'44		17'67			46'47	22. 25.	4'31	- 2'29						
	6	Groombridge 3802	B	...	...	...	56'5	1'9	7'1	22'0	...	...	...	22. 26.	6'99		7'23			.....	22. 26.	53'87	- 2'32						
	7	η Aquarii	B	2'2	4'7	7'1	12'1	14'7	17'1	24'5	27'0	29'6	32'0	22. 29.	17'14		17'75	4'33	46'58	.....	22. 30.	4'39	- 3'66						
	8	Groomb. 3887..R.	B	...	...	...	24'0	54'0	10'0	26'0	12'2	28'0	...	22. 38.	26'01		25'23			.....	22. 39.	11'87	- 0'63						
	9	Bradley 3038	B	29'7	39'2	48'2	58'8	8'2	16'9	28'0	36'9	46'8	...	22. 47.	8'08		7'46			.....	22. 47.	54'10	- 0'68						
	10	Groombridge 3945	B	...	...	...	50'1	59'8	4'6	9'5	23'6	28'6	...	22. 54.	9'47		9'72			.....	22. 54.	56'36	- 2'92						
	11	Groombridge 3950	B	...	...	...	...	...	...	42'4	46'8	51'0	55'4	22. 55.	29'80		30'10			.....	22. 56.	16'74	- 3'04						
	12	Groombridge 3965	B	5'2	9'7	14'0	22'5	26'9	31'1	43'7	48'0	52'2	56'8	22. 57.	31'07		31'37			.....	22. 58.	18'01	- 3'07						
	13	Oeltz. Arg. (N.) 11509 S.P.	B	7'4	14'6	21'5	28'1	48'2	55'6	2'2	16'0	22'8	29'6	23. 4.	48'50		49'25			.....	11. 5.	35'89	- 3'47						
	14	γ Piscium	B	48'1	50'6	53'2	58'1	0'5	3'1	10'5	12'9	15'3	18'0	23. 11.	3'07		3'66	50'25	46'59	.....	23. 11.	50'30	- 3'87						
	15	γ Piscium..(E&E)	B	39'1	53'9	8'7	23'5	38'4	53'1	7'9	...	...	...	23. 11.	3'09		3'68	50'25	46'57	.....	.....	.....	.....	.....					
	16	Piazzi XI 43 S.P..R.	B	21'1	27'1	33'1	39'1	56'4	2'2	8'0	19'4	25'1	31'4	23. 15.	56'20		56'96			.....	11. 16.	43'60	- 3'11						
	17	κ Piscium	B	38'0	40'2	42'8	47'7	50'1	52'8	0'0	2'5	5'0	7'5	23. 20.	52'70		53'30	39'93	46'63	.....	23. 21.	39'95	- 3'91						
	18	κ Piscium..(E&E)	B	28'7	43'5	58'3	13'0	28'0	42'9	57'7	...	...	...	23. 20.	52'74		53'34	39'93	46'59	.....	.....	.....	.....	.....					
	19	Groombridge 4070	B	...	...	...	...	...	...	29'5	35'6	10'4	45'9	23. 22.	0'49		0'67			.....	23. 22.	47'32	- 3'41						
	20	Piazzi XXIII. 100	B	...	...	...	2'1	11'1	16'0	20'8	34'5	39'2	...	23. 24.	20'71		20'98			.....	23. 25.	7'63	- 3'49						
	21	Piazzi XXIII. 101	B	...	6'9	...	...	25'5	30'2	44'1	48'6	53'4	58'1	23. 24.	30'22		30'49			.....	23. 25.	17'14	- 3'49						
	22	Bradley 3147	B	26'2	34'9	43'1	52'5	1'0	18'5	26'5	36'1	45'5	54'0	23. 27.	9'83		7'81			.....	23. 27.	54'46	- 4'79						
	23	Carrington 3629..	B	46'9	56'5	6'5	16'2	25'8	35'1	44'9	54'6	4'0	...	23. 32.	25'61		24'98			.....	23. 33.	11'63	- 4'31						
	24	χ Ursæ Maj. S.P..	B	26'8	30'2	34'4	38'1	49'2	53'0	56'8	3'6	7'5	11'4	23. 39.	49'04		49'57			.....	11. 40.	36'22	- 2'64						
	25	79 Pegasi	B	23'5	26'1	29'0	34'6	37'4	40'1	48'3	51'2	54'0	57'1	23. 43.	40'17		40'63			.....	23. 44.	27'28	- 3'82						
	26	φ Pegasi	B	...	...	...	23'2	25'9	28'5	36'1	38'8	41'4	44'1	23. 46.	28'47		28'99			.....	23. 47.	15'64	- 3'89						
	27	γ Ursæ Maj. S.P..	B	11'6	15'9	20'2	24'4	37'0	41'4	45'4	53'9	58'0	2'5	23. 47.	36'97		37'54			.....	11. 48.	24'19	- 2'54						
	28	B.D.+52° No. 3752	B	...	...	...	34'1	43'1	46'6	50'9	2'9	7'2	...	23. 52.	50'88		51'19			.....	23. 53.	37'84	- 3'95						
	29	Ceres	B	...	...	...	...	...	...	43'1	45'6	48'1	50'9	23. 53.	35'48		36'17			.....	23. 54.	22'82	.....						
	30	Bradley 3194	B	25'8	33'6	40'7	48'6	56'1	3'0	10'1	18'6	25'8	32'8	23. 53.	59'51		57'90			.....	23. 54.	44'55	- 8'60						
	31	B.D.+67° No. 732 S.P.	B	...	...	...	17'5	36'9	43'9	50'1	...	...	...	23. 59.	36'96		37'70			.....	12. 0.	24'35	- 2'01						
	32	B.D.+68° No. 673 S.P.	B	10'8	...	...	...	...	22'9	29'1	42'4	48'9	56'0	0. 0.	15'77		16'53		46'65	.....	12. 1.	3'18	- 1'96						
	33	Groombridge 4243	B	...	...	...	...	...	20'4	31'0	34'5	38'1	41'9	0. 3.	20'58		20'95			.....	0. 4.	7'60	- 4'03						
	34	Groombridge 1 (1st Star)	B	...	...	...	48'5	52'0	55'8	6'1	...	...	...	0. 3.	55'67		56'04			.....	0. 4.	42'69	- 4'04						
	35	Groombridge 1 (2nd Star)	B	...	...	...	49'1	52'5	56'3	6'7	...	...	...	0. 3.	56'22		56'59			.....	0. 4.	43'24	- 4'04						
	36	Bradley 1672 S.P.	B	41'1	50'0	57'9	6'4	15'5	24'8	31'1	...	...	...	0. 13.	17'49		22'57			.....	12. 14.	9'22	+ 15'60						
	37	Radcliffe 56	B	40'0	53'5	4'9	19'6	36'6	45'0	57'4	7'4	...	...	0. 15.	25'55		18'90			.....	0. 16.	5'55	- 32'82						
	38	Groomb. 1878 S.P.	B	59'1	...	9'1	...	27'8	...	...	46'8	...	56'5	0. 16.	27'83		28'45			.....	12. 17.	15'10	- 1'97						
	39	W. B. (2) 0. 647...	B	...	...	...	...	...	52'0	2'0	5'5	8'9	12'2	0. 26.	52'12		52'50			.....	0. 27.	39'15	- 4'27						
	40	Carrington 60	B	32'9	42'2	52'6	2'7	13'3	...	...	...	...	...	0. 26.	54'06		53'36			.....	0. 27.	40'01	- 8'94						
	41	Groomb. 1913 S.P.	B	...	...	...	...	48'9	54'1	59'1	8'8	14'0	18'9	0. 33.	48'97		49'61			.....	12. 34.	36'26	- 1'60						
	42	β Ceti	W	23'5	26'0	28'8	33'8	36'4	39'1	47'0	49'5	52'1	54'8	0. 37.	39'14		39'86	26'50	46'64	46'60	0. 38.	26'46	- 4'37						
	43	Piazzi 0. 162	B	...	...	...	...	30'7	34'9	39'5	52'0	...	...	0. 38.	39'37		39'67			46'65	0. 39.	26'32	- 4'66						
	44	Oeltz. Arg. (N.) 696	B	...	...	58'1	6'5	10'9	15'3	27'9	32'1	...	...	0. 39.	15'22		15'52			.....	0. 40.	2'17	- 4'67						
	45	Piazzi 0. 168	B	...	...	...	...	...	35'8	48'2	52'6	57'1	1'5	0. 39.	35'73		36'03			.....	0. 40.	22'68	- 4'68						
	46	B.D.+36° No. 128	B	1'8	4'6	8'0	14'0	17'1	20'2	...	...	...	...	0. 42.	20'19		20'61			.....	0. 43.	7'27	- 4'35						
	47	Lalande 1348	B	...	...	...	18'0	20'8	23'5	31'6	34'0	37'1	39'9	0. 43.	23'52		24'28			.....	0. 44.	10'94	- 4'45						
	48	20 Ceti	W	43'8	...	48'8	53'6	56'0	58'5	6'0	8'3	...	13'4	0. 46.	58'59		59'21	45'76	46'55	46'60	0. 47.	45'82	- 4'26						
	49	8 Draconis S.P. ..	B	...	...	9'6	15'7	33'6	39'8	45'9	58'0	...	...	0. 50.	33'65		34'36			46'65	12. 51.	21'02	- 0'89						
	50	Lalande F. 2181 S.P.	B	...	...	9'4	15'7	33'9	40'1	46'5	58'9	...	...	0. 51.	33'96		34'69			.....	12. 52.	21'35	- 0'82						
	51	Groomb. 1944 S.P.	B	...	...	...	...	...	...	24'9	38'0	44'6	51'0	0. 52.	11'81		12'56			.....	12. 52.	59'22	- 0'68						
	52	Groombridge 228	B	50'0	53'6	57'2	4'3	8'1	11'9	22'5	26'1	29'9	33'6	0. 57.	11'77		12'13			.....	0. 57.	58'79	- 4'69						
	53	Oeltz. Arg. (N.) 1049	B	10'8	14'2	18'0	25'1	28'9	32'4	43'3	46'9	50'5	54'1	0. 57.	32'47		32'83			.....	0. 58.	19'49	- 4'69						
	54	Lalande 1886	B	18'6	23'5	28'4	38'0	42'6	47'8	1'9	6'9	11'7	16'6	0. 59.	47'67		47'92			.....	1. 0.	34'58	- 5'20						

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 15 and 18, — 80°.45 and — 80°.45.

- 9, 23. Observed over wire T with the transit-micrometer set to readings 33'°600, 34'°100, 34'°600, 35'°100, 35'°600, 36'°100, 36'°600, 37'°100, 37'°600.
 19. Observed over wires W, X, Y and Z
 22. Observed over wire T with the transit-micrometer set to readings 34'°600, 34'°800, 35'°000, 35'°200, 35'°400, 35'°800, 36'°000, 36'°200, 36'°400, 36'°600.
 29. Observed in partially illuminated field.
 30. Observed over wire T with the transit-micrometer set to readings 29'°800, 30'°000, 30'°200, 30'°400, 30'°600, 40'°600, 40'°800, 41'°000, 41'°200, 41'°400.
 31, 38. Observed in dark field with wires illuminated.
 36. Observed over wire P with the transit-micrometer set to readings 35'°900, 35'°800, 35'°700, 35'°600, 35'°500, 35'°400, 35'°300.
 37. Observed over wire T with the transit-micrometer set to readings 34'°300, 34'°400, 34'°500, 34'°600, 36'°600, 36'°700, 36'°800, 36'°900.
 40. Observed over wire T with the transit-micrometer set to readings 31'°600, 32'°100, 32'°600, 33'°100, 33'°600.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GOMM

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896°.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].							
				s	s	s	s	s	s	s	s	s	s		h	m							s
Nov. 6	1	Carrington 161...	B	11'5	19'7	27'5	35'6	43'8	...	...	...	...	...	1. 2. 27'62	+ 2'52	27'17			46'65	1. 3. 13'83	-10'01	
	2	B. D. + 80° No. 34	B	15'9	23'8	31'5	39'6	47'2	...	...	...	...	...	1. 7. 31'60	(+ 0'49)	31'16			[+ 0'18]	1. 8. 17'82	-10'15	
	3	θ Ceti	B	51'6	54'0	56'5	1'6	4'0	6'5	14'0	16'5	19'0	21'5	1. 18. 6'56	[+ 8'04]	7'22	53'79	46'57		1. 18. 53'88	- 4'36	
	4	Polaris	B	59'9	10'2	17'7	22'9	29'1	37'3	45'7	54'6	5'6	21'1	1. 21. 14'62		8'56	52'85	44'29		1. 21. 55'22	-59'00	
	5	Groombridge 315	B	18'0	22'7	27'5	37'3	42'1	47'4	...	...	...	...	1. 21. 47'14		47'38				1. 22. 34'04	- 5'57	
	6	Piazzi I. 87	B	...	...	...	...	...	17'6	24'9	27'3	30'0	32'2	1. 22. 17'49		18'05				1. 23. 4'71	- 4'38	
	7	Piazzi XIII. 100 S.P.	B	...	...	...	...	...	...	29'9	34'0	57'6	21'0	1. 23. 10'28		10'83				13. 23. 57'49	- 1'26	
	8	Groombridge 341	B	...	...	...	...	...	57'9	13'8	19'1	24'5	30'0	1. 28. 57'67		57'88				1. 29. 44'54	- 5'97	
	9	Groombridge 365	B	16'1	22'5	28'9	41'2	47'8	54'1	12'8	19'4	25'8	32'1	1. 35. 54'16		54'30				1. 36. 40'96	- 6'60	
	10	Groomb. 2046 S.P.	B	...	...	...	...	...	44'0	51'5	59'1	13'5	22'0	1. 39. 43'77		44'59				13. 40. 31'25	+ 0'99	
	11	η Ursæ Maj. S.P.	B	17'5	21'3	25'2	29'0	40'3	44'2	48'2	55'8	59'5	3'2	1. 42. 40'36		40'90				13. 43. 27'56	- 1'09	
	12	β Arietis	B	55'2	57'9	0'5	5'8	8'2	11'0	18'9	21'5	24'1	26'9	1. 48. 11'04		11'54	58'14	46'60		1. 48. 58'20	- 4'58	
	13	Carrington 274...	B	...	...	...	...	...	...	14'1	31'9	50'2	8'1	1. 49. 21'20		20'64				1. 50. 7'30	-13'69	
	14	ε Trianguli	B	...	...	59'5	5'1	8'0	11'0	19'8	22'6	...	...	1. 56. 11'05		11'49				1. 56. 58'15	- 4'85	
	15	γ ¹ Andromedæ ...	B	...	...	...	42'1	45'5	48'9	58'5	2'0	5'3	8'6	1. 56. 48'81		49'19				1. 57. 35'85	- 5'11	
	16	γ ² Andromedæ ...	B	...	...	...	43'0	46'3	49'8	59'5	2'9	6'1	9'6	1. 56. 49'71		50'09				1. 57. 36'75	- 5'11	
	17	α Draconis S.P. ...	B	11'8	17'6	23'6	29'5	46'5	52'4	58'2	9'9	15'8	21'5	2. 0. 46'59		47'29				14. 1. 33'96	+ 0'39	
	18	Lalande 4133	B	11'3	13'9	16'5	21'9	24'5	27'1	35'1	37'6	40'1	43'0	2. 7. 27'14		27'88				2. 8. 14'55	- 4'42	
	19	Groombridge 471	B	...	...	...	...	...	0'8	14'1	54'0	7'3	20'7	2. 11. 14'42		14'15				2. 12. 0'82	-11'88	
	20	Groombridge 502	B	13'6	17'6	21'5	29'4	33'6	37'5	49'3	53'1	57'2	1'4	2. 15. 37'48		37'80				2. 16. 24'47	- 5'74	
	21	Oeltz. Arg. (N.) 2727	B	32'6	36'5	40'4	47'9	51'8	55'9	7'1	10'9	14'9	18'9	2. 17. 55'75		56'08				2. 18. 42'75	- 5'66	
	22	7-Yr. Cat. (1860) No. 154.	B	...	...	24'9	37'1	43'4	49'9	8'8	14'8	...	...	2. 19. 49'94		50'09				2. 20. 36'76	- 7'42	
	23	7-Yr. Cat. (1860) No. 156.	B	...	...	26'1	38'4	44'9	51'5	10'0	16'1	...	...	2. 19. 51'29		51'44				2. 20. 38'11	- 7'42	
	24	Groombridge 523	B	8'7	16'2	23'5	38'0	45'5	52'9	14'9	22'0	29'5	37'2	2. 25. 52'95		53'03				2. 26. 39'70	- 8'26	
	25	Oeltz. Arg. (N.) 14718 S.P.	B	38'2	46'0	...	2'8	25'2	34'0	42'2	...	5'8	14'1	2. 30. 25'92		26'76				14. 31. 13'43	+ 2'42	
	26	W. B. II. 612	B	...	...	...	13'6	16'1	18'8	26'0	28'9	31'5	34'1	2. 37. 18'72		19'25				2. 38. 5'92	- 4'68	
	27	α Arietis	B	...	53'7	56'3	1'5	4'0	6'5	14'0	16'6	19'1	...	2. 38. 6'51		7'04				2. 38. 53'71	- 4'68	
	28	Groombridge 553	B	...	...	48'0	54'7	58'1	1'7	11'9	15'3	...	...	2. 40. 1'69		2'07				2. 40. 48'74	- 5'51	
	29	Groombridge 555	B	4'8	8'1	...	...	...	21'8	25'3	35'5	38'9	42'2	2. 40. 25'29		25'67				2. 41. 12'34	- 5'51	
	30	Oeltz. Arg. (N.) 3187	B	...	...	...	35'2	39'6	44'0	57'1	...	...	...	2. 41. 44'07		44'37				2. 42. 31'04	- 6'27	
	31	Oeltz. Arg. (N.) 3195	B	...	...	...	5'5	14'1	18'3	22'8	35'9	40'0	...	2. 42. 22'86		23'16				2. 43. 9'83	- 6'29	
	32	η Persei	B	...	...	...	8'3	17'1	21'2	26'0	38'8	43'1	...	2. 42. 25'84		26'14				2. 43. 12'81	- 6'29	
	33	Oeltz. Arg. (N.) 3271	B	38'2	42'1	46'0	54'0	58'0	2'0	13'2	17'2	21'0	25'1	2. 47. 1'74		2'06				2. 47. 48'73	- 5'95	
	34	Groombridge 578	B	8'1	12'0	16'0	23'6	27'4	31'5	43'0	46'9	50'9	54'9	2. 47. 31'49		31'81				2. 48. 18'48	- 5'96	
	35	Groombridge 588	B	57'4	...	...	10'8	14'0	...	...	31'1	34'3	...	2. 51. 17'59		17'97				2. 52. 4'64	- 5'54	
	36	W. B. (2) II. 1185	B	3'5	...	...	17'0	20'4	23'9	...	37'2	40'6	...	2. 51. 23'83		24'21				2. 52. 10'88	- 5'54	
	37	Groomb. 2196 S.P.	B	...	...	...	...	19'6	40'4	0'1	40'1	0'6	20'9	2. 56. 19'90		21'45				14. 57. 8'12	+12'58	
	38	B. D. + 48° No. 857	B	20'8	24'0	28'0	...	...	...	...	58'0	1'8	5'8	3. 2. 43'11		43'45				3. 3. 30'12	- 5'95	
	39	Lalande 5851	B	44'9	48'5	52'4	0'0	3'7	7'7	18'3	22'1	26'0	29'9	3. 5. 7'41		7'75				3. 5. 54'42	- 5'96	
	40	Groomb. 2209 S.P.	B	2'8	...	12'0	25'4	30'0	34'5	...	47'5	...	...	3. 9. 25'28		25'88				15. 10. 12'55	+ 0'23	
	41	Oeltz. Arg. (N.) 15292 S.P.	B	7'5	13'2	18'9	24'5	40'5	46'0	51'8	3'1	8'6	14'1	3. 14. 40'74		41'41				15. 15. 28'08	+ 1'22	
	42	Oeltz. Arg. (N.) 15312 S.P.	B	40'1	40'6	51'4	56'9	13'2	18'9	24'9	35'8	41'4	46'9	3. 16. 13'47		14'14				15. 17. 0'81	+ 1'24	
	43	Bradley 459	B	...	...	...	39'2	47'1	55'2	18'3	...	...	...	3. 18. 55'11		55'17				3. 19. 41'84	- 9'58	
	44	ε Draconis S.P. ...	B	...	...	...	...	48'9	54'0	58'8	8'1	13'1	18'1	3. 21. 48'94		49'57				15. 22. 36'25	+ 0'66	
	45	Bradley 471	B	...	...	...	...	...	37'0	45'1	54'0	2'7	...	3. 23. 11'91		11'92				3. 23. 58'60	-10'22	
	46	Groombridge 679	B	...	...	...	...	...	40'1	48'8	57'5	6'1	...	3. 23. 15'34		15'35				3. 24. 2'03	-10'22	
	47	B. D. + 28° No. 560	B	9'5	12'1	15'1	20'8	23'6	26'3	34'5	37'5	40'1	43'3	3. 33. 26'32		26'78				3. 34. 13'46	- 5'13	
	48	W. B. (2) III. 726	B	51'0	53'6	56'6	2'1	4'9	7'9	...	...	...	...	3. 35. 7'76		8'22				3. 35. 54'90	- 5'12	
	49	W. B. (2) III. 732	B	38'9	42'2	45'7	52'1	55'7	59'1	9'0	12'0	15'5	19'1	3. 35. 58'98		59'37				3. 36. 46'05	- 5'73	
	50	Piazzi III. 128 ...	B	26'8	29'4	32'0	37'5	40'0	42'8	50'5	53'1	55'8	58'6	3. 37. 42'69		43'19				3. 38. 29'87	- 4'91	
	51	W. B. (2) III. 845	B	4'2	...	9'8	...	...	20'5	...	31'4	...	36'8	3. 39. 20'56		21'04				3. 40. 7'72	- 5'00	
	52	W. B. (2) III. 846	B	6'5	...	12'0	...	...	22'7	...	33'8	...	39'1	3. 39. 22'84		23'32				3. 40. 10'00	- 5'00	
	53	B. D. + 23° No. 523	B	...	...	...	...	...	...	42'0	44'5	47'2	50'1	3. 39. 33'86		34'34				3. 40. 21'02	- 5'01	
	54	η Tauri	B	19'9	22'2	25'1	30'4	33'1	35'9	44'0	46'7	49'4	52'1	3. 40. 35'92		36'40	23'04	46'64		3. 41. 23'08	- 5'00	

1, 2. Observed over wire T with the transit-micrometer set to readings 34° 600, 35° 100, 35° 600, 36° 100, 36° 600.

4. Observed over wire P with the transit-micrometer set to readings 35° 232, 35° 335, 35° 386, 35° 440, 35° 500, 35° 560, 35° 631, 35° 715, 35° 795, 35° 931.

7, 10, 25, 41. Observed in dark field with wires illuminated.

7. Observed over wires P, O, N and M.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at a Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation.	[Azimuth].							
																							(Level).
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s						
1898 Nov. 6	1	Lalande F. 2731-2 S.P.	B	48'9	54'5	1'5	6'6	12'6	...	...	...	...	...	3. 42. 0'82	+ 2'52	2'92			46'65	15. 42. 49'60	+ 22'65		
	2	Groombridge 744	B	...	...	...	...	46'6	50'9	2'6	6'9	11'1	15'1	3. 42. 50'88	(+ 0'49)	51'19			[+ 0'18]	3. 43. 37'87	- 6'44		
	3	B.D. + 52° No. 717	B	57'6	1'1	...	...	...	21'8	...	...	41'6	46'0	3. 43. 21'65	[+ 8'04]	21'96				3. 44. 8'64	- 6'45		
	4	Groombridge 747	B	39'8	43'6	47'8	...	...	4'0	...	19'9	24'0	28'1	3. 45. 3'93		4'24				3. 45. 50'92	- 6'47		
	5	B.D. + 44° No. 819	B	33'6	37'1	40'5	47'6	51'1	54'7	...	...	...	...	3. 49. 54'56		54'94				3. 50. 41'62	- 5'93		
	6	Oeltz. Arg. (N.) 15793 S.P.	B	...	...	...	...	...	...	8'8	33'4	45'2	57'8	3. 50. 45'39		46'47				15. 51. 33'15	+ 7'44		
	7	Groomb. 2300 S.P.	B	31'0	39'1	47'5	56'0	...	...	...	...	...	...	3. 54. 20'34		21'20				15. 55. 7'88	+ 4'12		
	8	Oeltz. Arg. (N.) 4409	B	23'1	28'4	34'0	44'4	49'5	54'6	...	...	...	...	3. 56. 54'85		55'07				3. 57. 41'75	- 7'73		
	9	Lalande 7413	B	...	...	14'0	25'4	30'4	35'8	50'6	56'4	...	...	3. 57. 35'53		35'75				3. 58. 22'43	- 7'75		
	10	Lalande 7430	B	...	...	...	...	...	0'5	16'0	21'4	26'7	32'1	3. 58. 0'48		0'70				3. 58. 47'38	- 7'74		
	11	Lalande 7433	B	...	...	...	...	...	2'5	18'1	23'5	28'8	34'2	3. 58. 2'56		2'78				3. 58. 49'46	- 7'74		
	12	Carrington 577...	B	...	...	...	...	...	...	36'8	53'5	10'0	27'4	4. 0. 45'24		44'74				4. 1. 31'42	- 18'75		
	13	Groombridge 796	B	49'6	54'1	59'9	10'2	15'5	21'0	36'0	40'8	46'4	51'8	4. 8. 20'61		20'83				4. 9. 7'51	- 7'73		
	14	Groombridge 806	B	19'8	...	29'8	39'2	...	50'0	4'7	9'4	14'9	...	4. 11. 49'78		50'02				4. 12. 36'70	- 7'58		
	15	Aldebaran	B	59'4	1'8	4'3	9'5	12'0	14'7	22'2	24'9	27'5	30'1	4. 29. 14'68		15'21	1'89	46'68		4. 30. 1'89	- 4'80		
Nov. 8	16	λ Ursæ Minoris...	B	3'5	8'0	14'7	20'5	38'1	43'8	48'8	2'0	6'1	11'5	19. 24. 28'13	(+ 0'11)	20'62	5'83	45'21	46'87	19. 25. 7'63	+ 113'95		
	17	β Aquilæ	B	12'4	14'9	17'5	22'2	24'8	27'4	34'7	37'1	39'7	42'1	19. 49. 27'32	[+ 7'56]	27'86	14'78	46'92	[+ 0'17]	19. 50. 14'87	- 2'56		
	18	ε Delphini	B	14'8	17'2	19'8	24'7	27'3	29'9	37'3	39'9	42'4	44'9	20. 27. 29'86		30'37	17'28	46'91		20. 28. 17'38	- 2'66		
	19	W. B. V. 413	B	8'5	11'1	13'6	18'5	21'1	23'6	31'0	33'5	36'1	38'9	5. 19. 23'63		24'25			47'04	5. 20. 11'33	- 4'13		
	20	Groombridge 967	B	...	...	...	...	...	...	0'8	4'9	9'1	13'3	5. 20. 48'52		48'78				5. 21. 35'86	- 6'85		
	21	Piazzi V. 125	B	...	...	34'6	40'0	42'5	45'4	53'0	55'8	...	...	5. 26. 45'27		45'74				5. 27. 32'82	- 4'89		
	22	Piazzi V. 117	B	...	...	...	14'1	18'2	22'8	35'2	...	...	...	5. 27. 22'67		22'93				5. 28. 10'01	- 6'96		
	23	ε Orionis	B	58'0	0'5	2'9	8'0	10'4	12'9	20'0	22'6	25'2	27'7	5. 30. 12'86		13'43	0'41	46'98		5. 31. 0'51	- 4'28		
	24	Lalande 10632	B	...	...	4'0	8'5	11'1	13'7	21'0	23'5	...	...	5. 32. 13'68		14'25				5. 33. 1'33	- 4'28		
	25	α Columbæ	B	50'8	53'7	56'6	2'4	5'6	8'5	17'4	20'8	23'7	26'6	5. 35. 8'65		9'45	56'65	47'20		5. 35. 56'53	- 3'61		
	26	Bradley 836	B	6'5	8'9	11'7	16'9	19'8	22'4	30'3	33'0	36'0	38'3	5. 39. 22'42		23'12				5. 40. 10'20	- 3'80		
	27	γ Leporis	B	7'6	10'1	12'9	18'2	20'9	23'8	31'5	34'2	36'9	39'7	5. 39. 23'62		24'32				5. 40. 11'40	- 3'79		
	28	Lacaille 1990	B	59'5	2'1	4'9	10'9	13'8	16'6	24'9	28'0	30'1	33'7	5. 42. 16'49		17'24				5. 43. 4'32	- 3'68		
	29	W. B. (2) V. 1426	B	...	...	...	43'2	45'9	48'7	56'6	59'2	2'0	4'9	5. 44. 48'65		49'10				5. 45. 36'18	- 4'95		
	30	Lacaille 2047	B	11'0	13'5	16'6	22'1	25'1	28'0	36'2	38'9	42'0	44'9	5. 49. 27'87		28'63				5. 50. 15'71	- 3'64		
	31	Lacaille 2062	B	14'1	16'8	19'7	24'9	27'7	30'1	38'0	40'9	43'6	46'2	5. 51. 30'24		30'95				5. 52. 18'03	- 3'74		
	32	Mars 1 L.	B	50'0	52'5	55'2	0'7	3'4	6'1	14'1	16'9	19'6	22'3	5. 55. 6'06			7'19			5. 55. 54'27			
	33	Mars 2 L.	B	51'1	53'9	56'5	2'0	4'5	7'4	15'6	18'1	20'9	23'9	5. 55. 7'43									
	34	B.D. + 41° No. 1364	B	58'4	1'6	5'1	11'8	14'9	18'1	28'0	31'3	34'6	38'0	6. 0. 18'23		18'58				6. 1. 5'66	- 5'77		
	35	Lacaille 2130	B	...	...	9'6	15'2	18'1	20'9	29'4	32'3	...	...	6. 1. 20'97		21'73				6. 2. 8'81	- 3'56		
	36	Groombridge 1117	B	...	...	...	38'0	41'1	44'4	54'1	...	...	...	6. 6. 44'47		44'81				6. 7. 31'89	- 5'78		
	37	Lalande 11949	B	23'5	25'8	28'2	33'8	35'9	38'1	45'6	48'0	50'5	53'1	6. 9. 38'29		38'88				6. 10. 25'96	- 4'06		
	38	Lalande 12000	B	...	...	35'2	40'1	42'9	45'8	53'0	55'8	...	...	6. 10. 45'52		46'18				6. 11. 33'26	- 3'79		
	39	Groombridge 1155	B	55'4	59'5	3'5	11'3	15'5	20'0	31'7	35'7	39'9	44'0	6. 18. 19'71		19'98				6. 19. 7'06	- 6'63		
	40	Piazzi VI. 83.	B	...	29'9	34'0	42'1	46'1	50'2	2'1	6'2	10'1	...	6. 19. 50'17		50'45				6. 20. 37'53	- 6'61		
	41	Groomb. 2572 S.P.	B	...	...	...	...	3'5	7'0	11'0	19'9	...	...	6. 23. 3'30		3'82				18. 23. 50'91	+ 0'10		
	42	Groomb. 2573 S.P.	B	...	...	...	...	23'0	27'0	30'9	38'8	42'9	46'8	6. 23. 22'85		23'37				18. 24. 10'46	+ 0'09		
	43	Groomb. 2617 S.P.	B	...	...	...	...	6'6	12'4	18'2	...	35'9	42'0	6. 30. 6'38		7'04				18. 30. 54'13	+ 2'05		
	44	Groomb. 2622 S.P.	B	...	...	24'0	29'8	47'3	53'4	59'5	11'1	...	...	6. 30. 47'40		48'06				18. 31. 35'15	+ 2'03		
	45	Groomb. 2630 S.P.	B	4'9	10'7	16'1	22'0	38'2	44'0	49'8	0'5	6'0	11'6	6. 33. 38'30		38'94				18. 34. 26'03	+ 1'66		
	46	Groomb. 2645 S.P.	B	...	...	28'6	34'2	50'2	56'1	1'5	12'6	...	...	6. 36. 50'42		51'06				18. 37. 38'15	+ 1'60		
	47	Piazzi XVIII. 190 S.P.	B	...	20'0	25'4	31'1	47'6	53'3	58'8	9'9	15'8	...	6. 37. 47'63		48'27				18. 38. 35'36	+ 1'64		
	48	Lacaille 2470	B	55'4	58'1	0'9	6'2	9'2	12'0	20'1	23'0	25'9	28'9	6. 45. 12'01		12'75				6. 45. 59'84	- 3'39		
	49	θ Canis Majoris	B	...	24'7	27'3	32'3	34'9	37'5	44'9	47'4	50'0	...	6. 48. 37'43		38'06	25'14	47'08		6. 49. 25'15	- 3'72		
	50	Groomb. 2720 S.P.	B	...	...	...	...	...	...	19'5	28'2	32'9	37'6	6. 51. 10'06		10'63				18. 51. 57'72	+ 0'53		
	51	Groombridge 1254	B	34'1	38'5	42'8	51'8	56'0	0'1	...	...	...	...	6. 54. 0'19		0'44				6. 54. 47'53	- 6'68		
	52	Piazzi VI. 293	B	...	45'5	50'5	0'1	5'1	10'1	...	...	...	...	6. 56. 10'15		10'34				6. 56. 57'43	- 7'30		
	53	Oeltz. Arg. (N.) 7501	B	...	...	...	...	...	...	3'5	7'6	32'0	56'9	6. 56. 43'12		43'39				6. 57. 30'48	- 6'44		

1. Observed over wire T with the transit-micrometer set to readings 36°000, 35°800, 35°600, 35°400, 35°200.

6, 7, 13, 41. Observed in dark field with wires illuminated.

16. Observed over wire X with the transit-micrometer set to readings 39°310, 39°340, 39°378, 39°415, 39°540, 39°578, 39°618, 39°706, 39°744, 39°788.

25, 26, 27, 28, 30, 49. Very unsteady.

32. A correction of - 0°06, for defect of illumination, has been applied in forming the concluded transit.

15. Very faint; foggy.

53. Observed over wires W, X, Y and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
															Collimation.							
															(Level).							
															[Azimuth].							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h m s	"	s	s	s	h m s	s		
Nov. 8	1	Piazzì XVIII. 325 S.P.	B	28.6	32.9	37.2	41.4	54.0	58.2	2.4	10.9	15.1	19.5	7. 0. 53.96	+ 2.52	54.49			47.04	19. 1. 41.58	+ 0.09	
	2	Groombridge 1269	B	36.8	40.6	45.1	53.7	58.0	2.2	...	...	...	...	7. 4. 2.25	(+ 0.11)	2.50			[+ 0.17]	7. 4. 49.59	- 6.56	
	3	Groomb. 2779 S.P.	B	...	...	...	...	10.2	15.0	19.4	27.8	31.9	36.1	7. 5. 10.37	[+ 7.56]	10.92				19. 5. 58.01	+ 0.17	
	4	Groomb. 2781 S.P.	B	...	...	7.5	12.0	24.5	29.1	33.5	42.0	...	...	7. 5. 24.68		25.23				19. 6. 12.32	+ 0.16	
	5	δ Geminorum	B	...	...	1.0	6.2	8.9	11.6	19.5	22.2	...	...	7. 13. 11.62		12.07	59.25	47.18		7. 13. 59.16	- 4.56	
	6	Lacaille 2729	B	...	...	...	...	...	47.5	55.9	58.5	1.5	4.1	7. 13. 47.23		47.99				7. 14. 35.08	- 3.14	
	7	Groomb. 2826 S.P.	B	...	...	...	...	51.0	57.8	0.5	9.5	...	18.7	7. 16. 51.18		51.75				19. 17. 38.84	+ 0.31	
	8	Groomb. 2839 S.P.	B	30.6	34.9	39.5	43.9	56.1	0.7	5.1	13.5	17.4	22.0	7. 19. 56.31		56.85				19. 20. 43.94	- 0.00	
	9	λ Ursæ Min. S.P.	B	35.9	43.8	51.9	58.1	4.6	18.0	25.5	32.6	39.0	45.3	7. 24. 11.47		19.77	5.09	45.32		19. 25. 6.86	+ 114.69	
	10	Groomb. 2864 S.P.	B	...	...	...	...	10.8	15.1	19.5	28.1	32.2	36.8	7. 27. 10.73		11.28				19. 27. 58.37	- 0.03	
	11	Lalande 14783	B	...	...	...	58.9	1.4	4.1	12.3	14.9	17.8	20.4	7. 28. 4.21		4.92				7. 28. 52.01	- 3.22	
	12	γ Puppis	B	10.9	13.8	16.5	22.0	24.8	27.8	35.8	38.6	41.6	44.4	7. 30. 27.66		28.41				7. 31. 15.50	- 3.11	
	13	k ¹ Puppis	B	32.2	34.8	37.8	43.4	46.0	48.7	57.0	59.8	2.4	5.5	7. 33. 48.80		49.54				7. 34. 36.63	- 3.13	
	14	k ² Puppis	B	32.9	35.5	38.2	44.0	46.5	49.4	57.5	0.2	3.0	6.1	7. 33. 49.37		50.11				7. 34. 37.20	- 3.13	
	15	Groomb. 2947 S.P.	B	...	...	...	...	42.2	49.5	56.8	10.3	17.2	24.8	7. 42. 42.52		43.25				19. 43. 30.34	+ 2.14	
	16	9 Puppis	B	...	...	...	7.9	10.4	12.9	20.5	23.1	25.6	28.1	7. 46. 13.02		13.66				7. 47. 0.76	- 3.38	
	17	Piazzì VII. 245	B	39.0	41.5	44.0	49.0	51.6	54.1	1.9	4.0	6.6	9.5	7. 46. 54.16		54.80				7. 47. 41.90	- 3.40	
	18	Groomb. 2979 S.P.	B	55.9	59.9	3.7	7.6	19.1	22.3	26.5	34.2	38.5	42.1	7. 51. 18.92		19.43				19. 52. 6.53	- 0.69	
	19	Groomb. 2990 S.P.	B	...	48.5	52.1	56.4	7.9	11.5	15.5	23.3	27.1	...	7. 53. 7.71		8.22				19. 53. 55.32	- 0.70	
	20	Groomb. 3002 S.P.	B	...	...	...	...	38.1	42.5	46.8	55.5	59.8	4.0	7. 54. 38.21		38.75				19. 55. 25.85	- 0.34	
	21	Groomb. 3003 S.P.	B	...	...	...	9.3	13.9	26.1	30.7	34.9	43.8	...	7. 55. 26.36		26.90				19. 56. 14.00	- 0.35	
	22	Groomb. 3040 S.P.	B	38.6	44.2	50.0	55.8	12.0	17.2	22.9	34.0	39.9	45.2	8. 1. 11.90		12.53				20. 1. 59.63	+ 0.65	
	23	Piazzì XX. 30 S.P.	B	...	...	1.5	6.9	23.0	29.1	34.1	45.0	...	...	8. 3. 23.16		23.79				20. 4. 10.89	+ 0.59	
	24	Piazzì XX. 42 S.P.	B	3.5	9.0	15.0	20.0	36.6	42.1	48.0	58.8	4.3	10.0	8. 4. 36.65		37.28				20. 5. 24.38	+ 0.58	
	25	Cape 1880 No. 4198	B	...	35.8	38.1	43.0	45.6	48.0	55.5	58.0	0.5	...	8. 7. 48.11		48.70				8. 8. 35.80	- 3.49	
	26	κ Cephei S.P.	B	...	...	...	56.9	30.1	42.4	53.8	...	...	...	8. 11. 30.56		31.56				20. 12. 18.66	+ 4.88	
	27	* N.P.D. 12° 37' S.P.	B	...	...	...	58.7	32.3	44.0	55.3	...	...	...	8. 11. 32.34		33.34				20. 12. 20.44	+ 4.88	
	28	Groomb. 3167 S.P.	B	...	...	...	...	33.3	37.5	41.9	50.0	54.6	58.9	8. 19. 33.29		33.83				20. 20. 20.93	- 0.68	
	29	Groomb. 3176 S.P.	B	48.8	53.4	57.7	2.0	14.8	19.0	23.5	31.9	36.2	40.6	8. 21. 14.72		15.27				20. 22. 2.37	- 0.63	
	30	Lacaille 3344	B	3.2	6.0	8.9	14.3	17.0	20.0	28.2	31.0	33.9	36.8	8. 24. 19.97		20.71				8. 25. 7.81	- 2.85	
	31	Piazzì VIII. 108..	B	20.2	22.8	25.2	...	...	...	45.1	47.5	50.1	...	8. 29. 35.18		35.71				8. 30. 22.81	- 3.68	
	32	W. B. VIII. 726..	B	...	...	...	30.6	33.0	35.7	42.9	...	...	...	8. 29. 35.60		36.13				8. 30. 23.23	- 3.68	
	33	f Mali	B	...	24.1	27.2	32.7	35.5	38.4	46.6	49.5	52.5	...	8. 34. 38.36		39.12				8. 35. 26.22	- 2.74	
	34	Groomb. 3253 S.P.	B	...	...	...	...	32.0	36.2	40.8	49.4	53.4	58.1	8. 35. 31.82		32.37				20. 36. 19.47	- 0.77	
	35	Groomb. 3367 S.P.	B	...	...	...	...	49.9	56.2	2.3	14.8	21.5	27.8	8. 37. 49.75		50.44				20. 38. 37.54	+ 0.61	
	36	Lacaille 3503	B	...	...	...	...	...	44.9	47.9	50.7	6.9	...	8. 40. 34.29		35.01				8. 41. 22.11	- 2.82	
	37	Lacaille 3551	B	56.0	58.8	1.7	7.5	10.1	13.0	21.0	24.0	26.8	29.9	8. 45. 12.92		13.67				8. 46. 0.77	- 2.71	
	38	α ³ Cancri	B	38.9	41.9	44.8	50.3	53.2	56.1	4.8	7.7	10.6	13.5	8. 50. 56.22		56.63				8. 51. 43.73	- 4.21	
	39	α Cancri	B	48.8	51.2	53.8	58.9	1.4	4.0	11.5	14.0	16.4	19.2	8. 52. 3.96		4.46	51.65	47.19		8. 52. 51.56	- 3.68	
	40	Groomb. 3355 S.P.	B	40.3	44.7	49.1	53.8	6.1	10.6	15.0	23.5	28.0	32.0	8. 54. 6.25		6.80				20. 54. 53.90	- 1.06	
	41	Groomb. 3361 S.P.	B	...	...	...	...	45.3	50.0	54.1	2.8	7.2	11.5	8. 54. 45.45		45.99				20. 55. 33.09	- 1.06	
	42	W.B. (2) VIII. 1371-2	B	...	...	...	...	...	9.5	12.8	15.9	19.4	...	8. 58. 0.21		0.57				8. 58. 47.67	- 4.44	
	43	Piazzì VIII. 243..	B	...	...	...	...	28.6	32.0	41.1	44.2	47.5	50.8	8. 58. 31.78		32.14				8. 59. 19.24	- 4.43	
	44	Piazzì VIII. 245..	B	52.6	55.8	59.0	5.3	8.4	11.8	21.1	24.2	27.5	30.8	8. 59. 11.70		12.06				8. 59. 59.16	- 4.43	
	45	Groomb. 3406 S.P.	B	14.6	18.9	23.4	...	...	...	...	58.0	2.1	6.5	9. 5. 40.53		41.08				21. 6. 28.18	- 1.22	
	46	Groomb. 3407 S.P.	B	34.0	38.6	43.5	...	...	...	...	17.1	22.0	26.2	9. 6. 0.18		0.73				21. 6. 47.83	- 1.22	
	47	Groomb. 3425 S.P.	B	...	...	59.1	3.4	15.0	19.3	23.0	31.1	...	...	9. 12. 15.07		15.59				21. 13. 2.70	- 1.52	
	48	Groomb. 3430 S.P.	B	...	...	...	...	...	47.1	51.5	59.5	2.8	7.1	9. 13. 43.11		43.63				21. 14. 30.74	- 1.54	
	49	Groomb. 3440 S.P.	B	58.2	2.6	7.1	11.6	24.9	29.3	33.9	42.6	47.0	51.4	9. 16. 24.79		25.34				21. 17. 12.45	- 1.32	
	50	Groomb. 3445 S.P.	B	...	...	56.5	0.7	13.8	18.1	22.9	31.7	...	...	9. 17. 13.86		14.41				21. 18. 1.52	- 1.33	
	51	Piazzì XXI. 142 S.P.	B	...	...	...	...	29.4	34.9	40.5	51.5	57.1	2.8	9. 19. 29.23		29.87				21. 20. 16.98	- 0.69	
	52	Lacaille 3892	B	43.2	45.8	48.3	54.0	56.9	59.8	8.0	11.0	13.8	16.6	9. 26. 59.78		0.53				9. 27. 47.64	- 2.51	
	53	Groomb. 3500 S.P.	B	...	...	...	...	6.9	10.7	14.5	22.5	26.5	30.5	9. 30. 6.74		7.25				21. 30. 54.36	- 1.81	
	54	Groomb. 3538 S.P.	B	33.1	39.9	46.2	53.0	...	...	...	...	...	...	9. 34. 12.19		12.89				21. 35. 0.00	- 0.52	

6, 7. Observed in partially illuminated field.

9. Observed over wire T with the transit-micrometer set to readings 35° 850, 35° 800, 35° 750, 35° 700, 35° 650, 35° 550, 35° 500, 35° 450, 35° 400, 35° 350.

13, 14. Very unsteady.

20, 46. Observed in dark field with wires illuminated.

36. Observed over wires V, W, X and Y.

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.	
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
			s	s	s	s	s	s	s	s	s	s									
Nov. 8	1	9 Cephei S.P.....	B	...	...	...	...	21.5	26.8	32.0	42.1	47.5	52.5	9. 34. 21.46	+ 2.52	22.07			47.04	21. 35. 9.18	- 1.18
	2	Groomb. 3560 S.P.	B	39.5	47.5	54.9	2.5	24.9	32.3	40.0	55.3	3.0	10.6	9. 37. 24.94	(+ 0.11)	25.72			[+ 0.17]	21. 38. 12.83	- 0.11
	3	Groomb. 3568 S.P.	B	44.0	48.3	52.1	55.9	7.9	11.8	15.9	23.8	28.0	32.1	9. 42. 7.92	[+ 7.56]	8.43				21. 42. 55.54	- 1.95
	4	μ Leonis	B	50.2	53.1	56.0	1.4	4.1	7.0	15.1	18.0	20.8	23.5	9. 46. 6.96		7.40	54.56	47.16		9. 46. 54.51	- 3.62
	5	Lacaille 4056.....	B	...	...	22.1	27.5	30.2	33.0	41.2	44.0	...	...	9. 47. 33.05		33.79				9. 48. 20.90	- 2.45
	6	Groomb. 3625 S.P.	B	...	...	...	...	...	18.5	26.7	34.0	21.4	...	9. 50. 47.56		48.34				21. 51. 35.45	- 0.40
	7	π Leonis	B	43.6	46.1	48.6	53.6	56.0	58.7	6.0	8.5	10.9	13.7	9. 53. 58.61		59.13	46.24	47.11		9. 54. 46.24	- 3.20
	8	15 Cephei S.P. ...	B	15.5	21.0	26.0	30.5	44.7	50.0	54.6	4.1	9.1	14.0	9. 59. 44.88		45.46				22. 0. 32.57	- 1.83
	9	Regulus	B	50.3	52.9	55.5	0.5	3.1	5.7	13.1	15.6	18.2	20.9	10. 2. 5.62		6.12	53.20	47.08		10. 2. 53.23	- 3.20
	10	Regulus (E&E)	B	44.1	59.2	14.4	29.6	44.9	0.1	15.3	...	...	...	10. 2. 5.55		6.05	53.20	47.15		.....	
	11	γ ¹ Leonis.....	B	14.2	16.9	19.6	24.7	27.4	30.1	37.9	40.4	43.1	45.9	10. 13. 30.06		30.53	17.59	47.06		10. 14. 17.64	- 3.30
	12	γ ¹ Leonis.... (E&E)	B	6.6	22.5	38.4	54.2	10.0	25.6	41.5	...	...	...	10. 13. 30.00		30.47	17.59	47.12		.....	
	13	Polaris S.P.....	WB	54.5	59.8	9.6	13.8	23.4	27.4	37.0	41.0	50.5	56.1	13. 21. 1.61		8.50	52.37	43.87	47.04 [+ 0.16]	1. 21. 55.63	- 58.52
Nov. 9	14	⊙ 1 L.....	WB	24.0	26.5	29.1	34.1	36.8	39.5	47.1	49.8	52.5	55.1	14. 58. 39.49	+ 2.56 (- 0.04)	48.01				15. 0. 35.15	
	15	⊙ 2 L.....	WB	39.6	42.1	44.8	50.0	52.5	55.3	2.9	5.5	8.1	10.7	15. 0. 55.19							
	16	α Coronæ	WB	14.1	16.9	19.7	25.2	28.0	30.8	39.1	41.8	44.6	47.4	15. 29. 30.80		31.22	18.37	47.15		15. 30. 18.36	- 1.34
	17	δ Ursæ Minoris...	WB	11.3	18.5	31.1	46.1	54.1	3.1	8.5	20.4	25.1	33.5	18. 4. 28.41		26.35				18. 5. 13.51	+ 37.38
	18	η Serpentis	WB	55.5	58.0	0.4	5.4	7.9	10.2	17.7	20.1	22.6	25.1	18. 15. 10.33		10.91	57.94	47.03		18. 15. 58.07	- 2.31
	19	α Lyræ	WB	19.5	22.6	25.8	32.0	35.2	38.4	47.9	50.9	54.1	57.5	18. 32. 38.44		38.80	25.97	47.17		18. 33. 25.96	- 0.96
	20	β ¹ Lyræ	WB	10.3	13.3	16.1	22.1	25.1	28.0	36.9	40.0	42.8	46.0	18. 46. 15.65		28.49	15.67	47.18		18. 46. 15.65	- 1.28
	21	Cephei 51 S.P....	WB	9.6	15.5	26.3	33.3	47.1	51.5	0.9	8.2	19.7	24.6	18. 51. 45.60		48.97				6. 52. 36.14	- 49.68
	22	ζ Aquilæ.....	WB	36.9	39.5	42.1	47.1	49.7	52.2	59.8	2.1	4.9	7.6	18. 59. 52.23		52.73	39.85	47.12		19. 0. 39.90	- 2.09
	23	⊙ 1 L.....	WB	40.9	43.5	46.4	52.0	54.9	58.0	6.1	8.9	12.0	14.9	19. 12. 57.80		58.53				19. 14. 58.79	
	24	λ Ursæ Minoris...	WB	7.7	20.8	27.7	34.5	40.7	48.1	54.0	59.0	6.9	13.5	19. 24. 24.43		16.62	4.35	47.73		19. 25. 3.79	+ 115.43
	25	γ Aquilæ	WB	18.5	21.0	23.5	28.5	31.0	33.5	41.1	43.5	46.1	48.7	19. 40. 33.58		34.08	21.26	47.18		19. 41. 21.25	- 2.39
	26	β Aquilæ	WB	12.1	14.5	17.1	22.0	24.5	27.1	34.4	36.9	39.6	42.1	19. 49. 27.07		27.60	14.77	47.17		19. 50. 14.77	- 2.55
	27	Groomb. 1119 S.P.	WB	50.9	2.0	8.1	17.5	25.3	35.5	42.1	54.1	2.2	19.5	19. 54. 30.61		38.83				7. 55. 26.00	- 107.77
	28	ε Aquarii	AC	3.2	5.8	8.1	13.1	15.7	18.1	25.7	28.1	30.6	33.2	20. 41. 18.20		18.81	5.98	47.17	47.06†	.....	
	29	θ Capricorni	AC	6.1	8.7	11.2	16.3	19.1	21.8	29.4	32.0	34.6	37.3	20. 59. 21.69		22.36	9.59	47.23		.....	
	30	Groombridge 3548	WB	4.3	13.9	27.4	36.6	47.1	54.1	4.6	10.9	22.5	28.0	21. 19. 18.43		16.36			47.04	21. 20. 3.54	+ 18.02
	31	ε Pegasi	R. WB	5.0	7.5	10.1	15.0	17.5	20.1	...	...	...	...	21. 38. 20.06		20.57	7.76	47.19		21. 39. 7.75	- 3.14
	32	16 Pegasi	WB	18.6	21.2	24.0	29.4	32.1	34.9	43.1	45.9	48.6	51.3	21. 47. 34.95		35.38	22.56	47.18		21. 48. 22.56	- 2.84
	33	Groombridge 3887	WB	51.1	6.9	22.3	53.4	8.4	24.0	...	...	...	...	22. 38. 24.39		23.90				22. 39. 11.09	- 0.27
	34	α Pegasi	WB	35.3	37.9	40.4	45.5	48.0	50.5	58.1	0.7	3.4	6.0	22. 58. 50.62		51.11	38.34	47.23		22. 59. 38.30	- 3.58
	35	Piazzi XI. 43 S.P.	WB	21.4	27.1	33.1	38.9	56.0	2.1	7.9	19.4	25.2	31.2	23. 15. 56.14		56.80				11. 16. 43.99	- 3.26
	36	Bradley 3147	WB	9.4	21.1	26.1	32.3	38.4	45.8	51.9	1.1	7.8	14.0	23. 27. 8.00		5.84				23. 27. 53.04	- 3.96
	37	ι Piscium	W	37.4	39.9	42.2	47.1	49.8	52.2	59.8	2.1	4.5	7.1	23. 33. 52.25		52.78	39.89	47.11	47.02	.....	
	38	ι Piscium.... (E&E)	W	32.4	47.2	2.2	17.0	31.9	46.8	1.7	...	...	...	23. 33. 52.20		52.73	39.89	47.16		.....	
	39	2 Ceti	WB	25.5	28.0	30.6	36.0	35.4	41.1	45.6	51.2	54.0	56.6	23. 57. 41.04		41.71	28.97	47.26	47.04	23. 58. 28.91	- 4.24
	40	Groomb. 1 (2nd Star)	WB	34.1	35.0	41.5	48.5	52.0	55.9	6.0	9.6	13.2	17.1	0. 3. 55.64		55.95			47.20	0. 4. 43.15	- 4.00
	41	ε Andromedæ	WB	3.0	6.0	5.7	14.2	17.1	20.0	25.3	31.1	34.0	37.0	0. 32. 19.98		20.40	7.67	47.27		0. 33. 7.60	- 4.18
	42	Bradley 95	WB	15.1	22.0	28.8	34.0	39.2	44.4	50.2	57.6	3.5	9.4	0. 58. 5.38		3.33				0. 58. 50.54	- 19.69
	43	β Andromedæ	W	53.2	56.1	59.5	5.3	8.1	11.4	20.1	23.2	26.2	29.5	1. 3. 11.31		11.69	58.94	47.25	47.18	.....	
	44	β Andromedæ.... (E&E)	W	41.7	0.0	18.2	36.3	54.4	12.4	30.4	...	...	...	1. 3. 11.28		11.66	58.94	47.28		.....	
	45	Polaris	WB	34.1	40.0	45.4	50.1	0.0	5.5	10.6	17.2	23.2	30.2	1. 21. 13.83		7.49	52.23	44.74	47.20	1. 21. 54.70	- 58.38
	46	A Cassiopeiæ.....	WB	6.1	...	...	...	41.5	48.8	10.0	17.3	24.1	31.6	1. 22. 48.85		48.88				1. 23. 36.09	- 6.71
	47	ν Piscium	WB	2.9	5.2	8.0	12.8	15.3	17.8	25.4	27.5	30.0	32.5	1. 35. 17.81		18.34	5.44	47.10		1. 36. 5.55	- 4.40
	48	ε ² Ceti	WB	39.4	42.0	44.4	49.4	52.0	54.4	2.0	4.3	6.6	9.4	2. 21. 54.43		54.95	42.22	47.27		2. 22. 42.17	- 4.56
	49	26 Arietis	WB	49.6	52.3	55.0	0.0	2.8	5.4	13.1	15.6	18.1	20.7	2. 24. 5.30		5.76				2. 24. 52.98	- 4.74
	50	γ ² Ceti.....	WB	56.4	59.0	1.5	6.0	8.7	11.5	18.6	21.1	23.8	26.1	2. 37. 11.31		11.86	59.13	47.27		2. 37. 59.08	- 4.53
	51	Polaris S.P.	B	12.1	17.2	21.4	33.1	38.6	44.4	57.1	6.0	10.2	16.1	13. 21. 0.20		7.31	52.06	44.75	47.17 [+ 0.20]	1. 21. 54.59	- 58.21
	52	η Ursæ Majoris...	B	16.9	20.8	24.6	32.1	36.0	40.0	51.4	55.2	59.1	2.9	13. 42. 39.96		40.24				13. 43. 27.52	- 1.15

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 10, 12, 38, and 42, — 84" 14 : — 84" 14 : — 84" 86 : and — 84" 95.
Correction for passage of Semidiameter, No. 23, + 73" 06.

6. Observed over wires Q, P, O and N.

13. Observed over wire T with the transit-micrometer set to readings 35° 658, 35° 607, 35° 530, 35° 493, 35° 406, 35° 370, 35° 296, 35° 260, 35° 180, 35° 134.

17. Observed over wire U with the transit-micrometer set to readings 35° 109, 35° 275, 35° 548, 35° 948, 36° 141, 36° 346, 36° 474, 36° 748, 36° 860, 37° 062.

21. Observed over wire S with the transit-micrometer set to readings 36° 142, 36° 034, 35° 827, 35° 683, 35° 396, 35° 318, 35° 144, 34° 999, 34° 776, 34° 646.

23. Correction to R.A. on true meridian, + 0" 03.

24. Observed over wire U with the transit-micrometer set to readings 35° 093, 35° 214, 35° 248, 35° 284, 35° 337, 35° 404, 35° 436, 35° 479, 35° 524, 35° 580.

27. Very faint. Observed over wire W with the transit-micrometer set to readings 35° 895, 35° 780, 35° 755, 35° 674, 35° 613, 35° 548, 35° 475, 35° 394, 35° 351, 35° 220.

30. Observed over wire T with the transit-micrometer set to readings 35° 277, 35° 485, 35° 798, 36° 025, 36° 280, 36° 457, 36° 724, 36° 838, 37° 139, 37° 269.

36. Observed over wire S with the transit-micrometer set to readings 35° 278, 35° 534, 35° 654, 35° 789, 35° 929, 36° 104, 36° 264, 36° 458, 36° 625, 36° 764.

42. Observed over wire S with the transit-micrometer set to readings 35° 433, 35° 587, 35° 749, 35° 864, 35° 989, 36° 088, 36° 247, 36° 416, 36° 571, 36° 726.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 NOV. 10 AM 11.55

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre of the Observation.	Correction for Re- duction to Mean R.A. 1896-0.	
															[Azimuth].								
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m							s
Nov. 9	1	Arcturus	B	53.3	55.9	58.6	3.8	6.1	9.0	16.7	19.4	22.0	24.6	14. 10. 8.98	+ 2.56		9.44	56.74	47.30	47.17	14. 10. 56.73	- 1.71	
	2	γ Boötis	B	48.0	50.9	54.1	0.7	3.7	6.9	16.2	19.4	22.6	25.9	14. 27. 6.89	(- 0.04)		7.25			[+ 0.20]	14. 27. 54.54	- 1.21	
	3	β Ursæ Minoris...	B	13.4	22.9	32.1	50.2	59.9	9.5	36.5	46.0	55.3	5.0	14. 50. 9.22	[+ 7.56]		9.11				14. 50. 56.40	+ 3.88	
Nov. 10	4	⊙ 1 L.....	B	26.3	28.9	31.6	36.9	39.3	42.0	49.8	52.2	54.9	57.8	15. 2. 42.01			50.66				15. 4. 37.96		
	5	⊙ 2 L.....	B	42.3	45.0	47.5	52.6	55.3	58.0	5.8	8.2	10.9	13.6	15. 4. 57.96									
	6	α Coronæ	B	14.0	16.8	19.5	25.1	27.8	30.6	38.9	41.6	44.3	47.2	15. 29. 30.62			31.04	18.38	47.34		15. 30. 18.34	- 1.35	
	7	α Ophiuchi	B	5.1	7.6	10.1	15.2	17.8	20.3	27.7	30.2	32.9	35.5	17. 29. 20.28			20.78	8.15	47.37		17. 30. 8.10	- 1.80	
	8	μ Herculis	B	20.0	22.8	25.6	31.1	34.0	36.8	45.1	47.9	50.7	53.5	17. 41. 36.79			37.21	24.52	47.31		17. 42. 24.53	- 1.28	
	9	ξ Draconis.....	B	28.1	32.6	37.1	46.1	50.7	55.4	8.7	13.2	17.8	22.5	17. 50. 55.29			55.51				17. 51. 42.83	+ 0.81	
	10	Cephei 51 S.P. ...	B	41.5	47.3	53.4	10.9	16.0	20.1	31.4	42.5	46.5	51.0	18. 51. 45.38			48.75				6. 52. 36.08	- 50.22	
	11	ζ Aquilæ	B	36.8	39.4	41.9	...	52.0	...	2.0	4.7	7.4	18. 59. 52.06			52.56	39.84	47.28		19. 0. 39.89	- 2.08		
	12	ζ Aquilæ... (E&E)	B	32.1	47.5	2.8	18.1	33.2	48.5	3.7	...	...	...	18. 59. 52.03			52.53	39.84	47.31		.....		
	13	π Sagittarii	B	33.7	36.4	39.1	44.3	47.0	49.9	57.5	0.2	2.8	5.6	19. 2. 49.69			50.38				19. 3. 37.71	- 2.98	
	14	δ Draconis	B	3.5	9.7	16.2	29.1	35.6	42.1	1.2	7.6	14.1	20.9	10. 11. 42.10			42.17				19. 12. 29.50	+ 2.18	
	15	κ Cygni	B	29.6	33.6	37.9	46.0	50.1	54.3	6.6	10.8	14.9	19.1	19. 13. 54.33			54.62				19. 14. 41.95	- 0.08	
	16	τ Draconis	B	50.5	58.9	7.7	24.4	33.0	41.6	6.9	15.5	24.1	33.0	19. 16. 41.69			41.63				19. 17. 28.96	+ 4.08	
	17	δ Aquilæ	B	...	17.5	20.0	24.9	27.3	29.9	37.2	39.6	42.1	...	19. 19. 29.86			30.41	17.74	47.33		19. 20. 17.74	- 2.49	
	18	β Cygni.....	B	28.9	31.5	34.4	40.0	42.5	45.6	53.8	56.6	59.5	2.2	19. 25. 45.54			45.96				19. 26. 33.29	- 1.72	
	19	φ Cygni	B	13.0	15.9	18.6	24.2	27.1	30.1	38.5	41.4	44.1	47.1	19. 34. 30.04			30.45				19. 35. 17.78	- 1.69	
	20	δ Cygni	B	35.9	39.2	42.7	49.8	53.2	56.9	7.0	10.5	14.0	17.7	19. 40. 56.74			57.06				19. 41. 44.39	- 0.98	
	21	α Aquilæ	B	42.1	44.5	47.1	52.0	54.5	57.2	4.5	7.0	9.5	12.1	19. 44. 57.09			57.60	44.98	47.38		19. 45. 44.93	- 2.48	
	22	α Aquilæ... (E&E)	B	38.3	53.3	8.1	23.1	38.2	53.1	8.1	...	...	...	18. 44. 57.20			57.71	44.98	47.27		.....		
	23	13 Vulpeculæ	B	0.3	3.1	5.9	11.1	13.9	16.6	24.5	27.4	30.0	32.9	19. 48. 16.61			17.05				19. 49. 4.39	- 2.00	
	24	η Cygni	B	20.0	23.0	26.0	32.0	35.0	38.1	47.1	50.1	53.0	56.1	19. 51. 38.08			38.46				19. 52. 25.80	- 1.59	
	25	ε Sagittarii	B	14.1	17.1	20.0	25.5	28.2	31.1	39.4	42.2	45.1	48.0	19. 55. 31.11			31.86	19.21	47.35		19. 56. 19.20	- 3.45	
	26	17 Vulpeculæ ...	B	23.3	26.0	28.7	34.1	36.8	39.8	47.5	50.1	52.9	55.8	20. 1. 39.54			39.99				20. 2. 27.33	- 2.10	
	27	θ Aquilæ	B	56.3	58.8	1.3	6.1	8.6	11.2	18.4	21.0	23.6	26.1	20. 5. 11.18			11.75	59.10	47.35		20. 5. 59.09	- 2.82	
	28	θ Aquilæ... (E&E)	B	52.8	7.5	22.4	37.2	52.1	6.9	21.8	...	...	...	20. 5. 11.26			11.83	59.10	47.27		.....		
	29	19 Vulpeculæ ...	B	24.8	27.6	30.4	35.9	38.6	41.6	49.6	52.2	55.1	58.0	20. 6. 41.42			41.85				20. 7. 29.19	- 2.03	
	30	⊙ 1 L.....	B	18.1	21.1	23.9	29.2	32.0	34.8	42.9	45.8	48.5	51.3	20. 11. 34.80			35.51				20. 13. 32.58		
	31	γ Cygni	B	24.2	27.4	30.8	37.1	40.2	43.6	53.0	56.3	59.6	2.9	20. 17. 43.56			43.91				20. 18. 31.25	- 1.55	
	32	π Capricorni	B	21.9	24.2	27.0	32.1	34.7	37.6	45.1	47.8	50.3	53.0	20. 20. 37.41			38.09				20. 21. 25.43	- 3.33	
	33	69 Aquilæ	B	12.9	15.3	18.0	22.9	25.4	28.0	35.2	37.8	40.1	42.6	20. 23. 27.86			28.44				20. 24. 15.78	- 2.97	
	34	ε Delphini	B	14.1	16.6	19.4	24.2	26.9	29.5	36.9	39.4	41.9	44.5	20. 27. 29.38			29.88	17.25	47.37		20. 28. 17.22	- 2.63	
	35	η Delphini	B	...	...	...	11.6	14.0	16.6	24.1	26.6	29.2	31.9	20. 28. 16.63			17.13				20. 29. 4.47	- 2.59	
	36	β Delphini	B	39.9	42.1	44.9	49.9	52.4	55.0	2.5	5.0	7.6	10.3	20. 31. 55.00			55.49				20. 32. 42.83	- 2.58	
	37	ν Capricorni	B	...	...	...	...	...	...	23.1	30.9	33.5	36.1	20. 33. 23.16			23.84				20. 34. 11.18	- 3.39	
	38	α Cygni	B	46.0	49.5	53.0	59.9	3.4	6.9	17.3	20.7	24.2	27.9	20. 37. 6.93			7.25				20. 37. 54.59	- 1.47	
	39	ε Cygni	B	56.7	59.8	2.5	8.4	11.5	14.5	23.2	26.2	29.2	32.1	20. 41. 14.45			14.84				20. 42. 2.18	- 2.06	
	40	μ Aquarii	CD	2.9	5.5	8.0	13.0	15.5	18.0	25.5	28.0	30.5	33.1	20. 46. 18.04			18.65	5.88	47.23	47.10†	.....		
	41	32 Vulpeculæ ...	CD	5.6	8.2	11.0	16.5	19.4	22.1	30.5	33.2	36.0	39.1	20. 49. 22.20			22.62	9.92	47.30		.....		
	42	σ Ursæ Maj. S.P.R.	B	56.2	2.5	9.0	15.6	...	...	...	...	...	...	20. 58. 34.44			35.14				47.17	8. 59. 22.48	- 6.80
	43	σ Ursæ Maj. S.P.	B	...	...	...	...	...	...	34.2	40.9	47.5	0.1	6.5	12.9	20. 58. 34.44			35.14		8. 59. 22.48	- 6.80	
	44	c Ursæ Maj. S.P.	B	...	...	...	...	...	...	36.0	46.1	51.6	56.7	21. 5. 25.32			25.93				9. 6. 13.28	- 5.91	
	45	β Aquarii	B	5.7	8.1	10.6	15.5	18.0	20.6	28.0	30.5	32.9	35.5	21. 25. 20.58			21.17	8.39	47.22		21. 26. 8.52	- 3.37	
	46	θ Aquarii	D	21.8	24.1	26.9	31.8	34.1	36.9	44.0	46.5	49.0	51.8	22. 10. 36.73			37.34	24.37	47.03	46.84	.....		
	47	γ Aquarii	D	18.0	20.7	23.1	28.0	30.4	33.1	40.1	42.9	45.3	48.0	22. 15. 33.00			33.57	20.58	47.01		.....		
	48	η Aquarii	B	1.7	4.1	6.6	11.6	14.0	16.5	24.0	26.3	28.9	31.3	22. 29. 16.54			17.10	4.28	47.18	47.17	22. 30. 4.46	- 3.61	
	49	Groomb. 3887..R.	B	52.0	6.9	23.6	54.1	9.4	25.9	11.1	26.9	42.6	58.7	22. 38. 25.35			24.88				22. 39. 12.24	- 0.15	
	50	Bradley 3038.....	B	38.0	47.7	57.1	6.6	16.6	26.0	35.6	...	...	...	22. 47. 6.80			6.09				22. 47. 53.45	- 0.09	
	51	Fomalhaut	B	53.3	56.1	59.1	4.6	7.5	10.4	18.9	21.7	24.7	27.8	22. 51. 10.45			11.22	58.52	47.30		22. 51. 58.58	- 4.30	
	52	β Ursæ Maj. S.P.	B	22.4	27.2	31.6	36.2	49.9	54.2	58.9	7.8	12.4	16.9	22. 54. 49.68			50.24				10. 55. 37.60	- 3.62	
	53	α Ursæ Maj. S.P.	B	2.5	8.0	13.5	18.7	34.3	39.8	45.2	55.6	1.0	6.3	22. 56. 34.41			35.03				10. 57. 22.39	- 3.71	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 12, 22, and 28, — 85^m.99 : — 86^m.00 : and — 86^m.01.
Correction for passage of Semidiameter, No. 30, + 69^s.70.

2, 6, 7, 8. Hazy.

10. Observed over wire T with the transit-micrometer set to readings 34^r.501, 34^r.385, 34^r.251, 33^r.909, 33^r.827, 33^r.615, 33^r.520, 33^r.292, 33^r.198, 33^r.125.

18, 19. Cloudy.

30. Correction to R.A. on true meridian, + 0^s.03.

50. Observed over wire T with the transit-micrometer set to readings 34^r.100, 34^r.600, 35^r.100, 35^r.600, 36^r.100, 36^r.600, 37^r.100.

42. Windy.

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Culmination.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.0.
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).						
			s	s	s	s	s	s	s	s	s	s		"	"						
Nov. 10	1 Oeltz Arg. (N.) 11509 S.P.	B	71	14.1	21.1	28.1	48.1	55.2	2.1	15.6	22.3	29.2	23. 4. 48.19	+ 2.56		48.92			47.17	11. 5. 36.28	- 3.72
	2 ψ^1 Aquarii	B	...	...	...	37.5	40.0	42.5	50.0	52.4	55.0	57.5	23. 9. 42.52	(- 0.04)		43.13			[+ 0.20]	23. 10. 30.49	- 3.98
	3 ψ^2 Aquarii	B	30.7	33.3	36.0	40.9	43.3	46.0	53.3	55.9	58.3	1.0	23. 11. 45.91	[+ 7.56]		46.52				23. 12. 33.88	- 3.96
	4 ψ^3 Aquarii	B	34.0	36.5	39.1	44.0	46.5	49.1	56.5	59.1	1.5	4.1	23. 12. 49.08			49.70				23. 13. 37.06	- 3.97
	5 Bradley 3147	B	24.0	32.7	41.4	50.5	59.3	16.5	25.7	33.5	42.6	51.1	23. 27. 7.73			5.57				23. 27. 52.94	- 3.63
	6 ϵ Andromedæ	B	57.6	1.1	4.5	11.1	14.4	18.0	28.0	31.3	34.6	38.0	23. 32. 17.91			18.24				23. 33. 5.61	- 3.59
	7 κ Andromedæ	B	12.3	15.8	19.4	26.0	29.5	32.9	43.1	46.4	50.0	53.5	23. 34. 32.94			33.27				23. 35. 20.64	- 3.63
	8 γ Pegasi	B	44.6	47.3	50.1	55.8	58.6	1.5	9.9	12.6	15.6	18.3	23. 38. 1.47			1.89				23. 38. 49.26	- 3.74
	9 χ Ursæ Maj. S.P.	B	...	...	...	33.7	37.5	48.5	52.2	56.0	3.3	7.0	...	23. 39. 48.46		48.94				11. 40. 36.31	- 2.78
	10 δ Sculptoris	B	30.0	32.6	35.5	41.1	44.0	46.8	55.1	58.0	0.9	3.9	23. 42. 46.83			47.59	34.98	47.39		23. 43. 34.96	- 4.40
	11 γ Ursæ Maj. S.P.	B	11.0	15.2	19.8	24.0	36.5	40.7	44.9	53.4	57.6	1.9	23. 47. 36.52			37.06				11. 48. 24.43	- 2.69
	12 Carrington 3686 ..	B	36.0	53.9	...	...	...	...	...	...	48.2	6.9	23. 52. 21.40			20.79				23. 53. 8.16	- 5.27
	13 B.D. + 52° No. 3572	B	25.4	29.5	33.7	41.7	45.6	50.0	...	...	...	...	23. 52. 49.92			50.18				23. 53. 37.55	- 3.88
	14 B.D. + 67° No. 732 S.P.	B	...	4.2	10.5	...	...	...	...	2.1	8.7	...	23. 59. 36.26			36.96				12. 0. 24.33	- 2.20
	15 B.D. + 68° No. 673 S.P.	B	...	...	...	...	...	...	29.1	42.5	49.1	55.9	0. 0. 15.74			16.46			47.37	12. 1. 3.83	- 2.15
	16 B.D. + 32° No. 10 ..	B	54.9	57.9	0.8	6.9	9.6	12.5	21.2	23.9	27.1	30.1	0. 4. 12.53			12.92				0. 5. 0.29	- 3.96
	17 γ Pegasi	B	53.5	56.1	58.8	3.6	6.1	8.9	16.2	19.0	21.6	24.1	0. 7. 8.83			9.32	56.76	47.44		0. 7. 56.69	- 4.01
	18 ϵ Ceti	R	38.9	8.6	11.1	13.9	...	...	...	...	...	...	0. 13. 23.78			24.39	11.87	47.48		0. 14. 11.76	- 4.19
	19 ϵ Ceti	B	...	...	...	...	...	...	31.4	34.0	36.5	39.0	0. 13. 24.03			24.64	11.87	47.23		0. 14. 12.01	- 4.19
	20 Bradley 1672 S.P.	B	48.9	54.8	59.8	5.8	11.6	15.6	20.1	25.0	29.4	34.4	0. 13. 16.49			21.69				12. 14. 9.06	+ 13.84
	21 Lalande F. (2) 5 ..	B	43.9	52.0	59.5	7.4	14.8	22.9	30.3	...	...	...	0. 23. 7.26			6.78				0. 23. 54.15	- 7.05
	22 Carrington 60	B	22.2	32.8	43.0	53.5	2.6	13.8	24.0	...	...	...	0. 26. 53.13			52.34				0. 27. 39.71	- 8.59
	23 Carrington 1872 S.P.	B	27.5	49.9	10.6	30.8	32.0	53.6	...	...	...	...	0. 33. 32.44			34.05				12. 34. 21.42	+ 2.80
	24 Groombridge 1914 S.P.	B	...	...	...	...	54.2	59.8	4.5	14.3	19.3	24.2	0. 34. 54.42			55.02				12. 35. 42.39	- 1.71
	25 Piazzi 0. 162	B	12.9	17.1	21.5	30.0	34.1	38.5	51.2	55.5	59.8	4.1	0. 38. 38.51			38.76				0. 39. 26.14	- 4.63
	26 Oeltz Arg. (N.) 696	B	48.9	53.0	57.4	5.9	10.2	14.5	27.3	31.5	35.9	40.1	0. 39. 14.53			14.78				0. 40. 2.16	- 4.63
	27 Piazzi 0. 168	B	9.5	13.6	18.0	26.4	30.4	35.0	47.9	52.0	56.2	0.7	0. 39. 35.03			35.28				0. 40. 22.66	- 4.63
	28 γ Draconis S.P.	B	54.0	0.4	7.0	13.4	32.3	39.0	45.5	58.0	4.5	11.0	0. 42. 32.41			33.11				12. 43. 20.49	- 1.11
	29 Oeltz Arg. (N.) 921	B	...	...	45.4	53.0	57.1	1.1	12.5	16.4	...	...	0. 51. 1.00			1.28				0. 51. 48.66	- 4.68
	30 Groombridge 1944 S.P.	B	...	...	...	...	...	24.6	37.5	44.1	50.5	...	0. 52. 11.36			12.07				12. 52. 59.45	- 0.82
	31 Groombridge 227	B	56.7	1.3	6.0	15.1	19.6	24.3	...	...	...	...	0. 57. 24.29			24.51				0. 58. 11.89	- 5.03
	32 Oeltz Arg. (N.) 1043	B	59.8	4.2	8.9	18.0	22.4	27.2	...	...	...	...	0. 57. 27.19			27.42				0. 58. 14.80	- 5.03
	33 Lalande 1886	B	...	...	...	37.3	42.0	47.0	1.4	6.1	11.0	16.0	0. 59. 47.01			47.20				1. 0. 34.58	- 5.17
	34 η Ceti	B	22.6	25.1	27.8	32.7	35.1	37.8	45.1	47.8	50.2	52.9	1. 2. 37.75			38.37				1. 3. 25.75	- 4.35
	35 f Piscium	B	27.6	30.0	32.4	37.5	40.0	42.4	49.6	52.1	54.7	57.2	1. 11. 42.39			42.93				1. 12. 30.31	- 4.33
	36 θ Ceti	B	50.6	53.2	55.8	0.5	3.1	5.9	13.1	15.8	18.2	20.9	1. 18. 5.75			6.36	53.79	47.43		1. 18. 53.74	- 4.36
	37 Polaris	B	24.6	34.1	41.4	48.2	54.9	0.8	5.2	10.0	15.1	21.4	1. 21. 12.68			6.34	51.89	45.55		1. 21. 53.72	- 58.04
	38 Carrington 203 ..	B	...	22.0	42.5	21.5	...	...	...	40.3	59.7	...	1. 22. 1.40			0.65				1. 22. 48.03	- 12.76
	39 W. B. I. 352	B	10.7	13.1	15.9	20.6	23.1	25.9	33.1	35.6	38.0	40.9	1. 22. 25.73			26.33				1. 23. 13.71	- 4.37
	40 ϵ Andromedæ	B	2.8	6.5	10.4	18.0	22.0	26.0	37.3	41.1	45.0	49.1	1. 36. 25.88			26.17				1. 37. 13.55	- 5.24
	41 ϕ Piscium	B	55.6	58.0	0.5	5.5	8.0	10.5	18.0	20.4	22.9	25.6	1. 39. 10.54			11.05	58.44	47.39		1. 39. 58.43	- 4.45
	42 χ Ceti	R	59.7	14.6	30.0	32.2	34.9	...	...	...	...	...	1. 43. 44.94			45.56				1. 44. 32.94	- 4.40
	43 χ Ceti	B	...	...	...	...	...	52.2	54.9	57.4	59.9	...	1. 43. 44.84			45.46				1. 44. 32.84	- 4.40
	44 Carrington 2106 S.P.	B	48.0	56.9	6.9	16.8	25.7	45.0	54.5	4.4	13.6	22.6	1. 50. 35.44			38.62				13. 51. 26.01	+ 24.74
	45 ϵ Trianguli	B	52.7	55.5	58.5	4.2	7.4	10.2	19.0	22.0	25.0	28.0	1. 56. 10.29			10.68				1. 56. 58.07	- 4.87
	46 γ^1 Andromedæ ..	B	...	...	...	...	44.8	48.1	57.9	1.3	4.5	8.0	1. 56. 48.11			48.45				1. 57. 35.84	- 5.13
	47 γ^2 Andromedæ ..	B	...	...	...	...	45.7	49.1	58.8	2.1	5.5	8.9	1. 56. 49.03			49.37				1. 57. 36.76	- 5.13
	48 α Draconis S.P.	B	11.2	17.1	23.1	28.9	46.0	51.9	57.7	9.2	15.2	21.2	2. 0. 46.06			46.72				14. 1. 34.11	+ 0.32
	49 β Trianguli	B	20.2	23.3	26.2	32.2	35.4	38.2	47.1	50.1	53.3	56.2	2. 2. 38.26			38.65				2. 3. 26.04	- 4.96
	50 B.D. + 33° No. 381	B	14.5	17.6	20.5	26.5	29.5	32.3	...	...	...	...	2. 6. 32.45			32.84				2. 7. 20.23	- 4.97
	51 Lalande 4133	B	10.2	12.9	15.7	20.9	23.5	26.2	...	...	...	...	2. 7. 26.22			26.91				2. 8. 14.30	- 4.43
	52 B.D. + 21° No. 303	B	...	...	...	...	...	21.9	24.2	27.3	43.1	59.1	2. 8. 11.21			11.65				2. 8. 59.04	- 4.72
	53 Radcliffe 698	B	49.7	54.0	58.1	6.2	10.5	14.9	27.3	31.4	35.5	39.9	2. 16. 14.81			15.07				2. 17. 2.46	- 5.91
	54 Groombridge 505	B	56.9	1.0	5.2	13.6	17.9	22.1	34.1	38.3	42.8	47.1	2. 16. 21.96			22.22				2. 17. 9.61	- 5.91

5. Observed over wire T with the transit-micrometer set to readings 34° 600, 34° 800, 35° 000, 35° 200, 35° 400, 35° 600, 36° 000, 36° 200, 36° 400, 36° 600.

14, 15, 16, 23, 24, 29, 39, 50. Observed in dark field with wires illuminated.

18. Observed over wires M, O, P and Q.

20. Observed over wire T with the transit-micrometer set to readings 33° 000, 32° 925, 32° 850, 32° 774, 32° 740, 32° 671, 32° 615, 32° 561, 32° 511, 32° 451.

21, 22. Observed over wire T with the transit-micrometer set to readings 34° 100, 34° 600, 35° 100, 35° 600, 36° 100, 36° 600, 37° 100.

37. Observed over wire T with the transit-micrometer set to readings 32° 028, 32° 114, 32° 179, 32° 245, 32° 300, 32° 352, 32° 397, 32° 438, 32° 487, 32° 527.

42. Very windy. Observed over wires M, N, O, P and Q.

44. Observed over wire T with the transit-micrometer set to readings 36° 600, 36° 400, 36° 200, 36° 000, 35° 800, 35° 600, 35° 400, 35° 200, 35° 000, 34° 800, 34° 600.

52. Observed over wires V, W, X, Y, and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.0.				
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m									s	#		
																											(Level).	[Azimuth].
1898	Nov. 10	1	Piazzi XIV. 79 S.P.	B	...	...	...	...	...	46.1	50.2	58.5	2.9	6.9	2. 17. 41.76	+ 2.56	42.29			47.37	14. 18. 29.68	-	0.52					
		2	Groomb. 2112 S.P.	B	...	...	...	...	...	21.2	32.2	44.4	5.9	17.0	28.4	2. 19. 21.36	(- 0.04)	22.36			[+ 0.20]	14. 20. 9.75	+	4.35				
		3	26 Arietis	B	...	52.0	54.9	59.8	2.5	5.3	13.0	15.7	18.2	...	...	2. 24. 5.23	[+ 7.56]	5.69				2. 24. 53.08	-	4.75				
		4	Carrington 387....	B	4.3	13.2	22.0	31.0	39.8	48.1	57.6	...	...	...	...	2. 38. 30.09		29.45				2. 39. 16.84	-	16.31				
		5	β Fornacis.....	B	42.7	46.0	48.5	54.5	57.5	0.5	9.0	12.0	14.9	18.1	...	2. 44. 0.41		1.20				2. 44. 48.59	-	4.41				
		6	Oeltz. Arg. (N.) 3271	B	37.6	41.5	45.5	53.2	56.9	1.1	12.3	16.2	20.1	24.2	...	2. 47. 0.92		1.20				2. 47. 48.59	-	6.00				
		7	Groombridge 588	B	56.6	59.8	...	10.0	13.4	...	26.9	...	33.9	37.1	...	2. 51. 16.87		17.20				2. 52. 4.59	-	5.59				
		8	W. B. (2) II. 1185	B	2.8	6.1	...	16.2	19.9	...	33.1	...	39.9	43.5	...	2. 51. 23.13		23.46				2. 52. 10.85	-	5.59				
		9	Piazzi XIV. 260 S.P.	B	29.4	35.8	41.9	48.0	6.1	12.4	18.7	30.8	36.9	43.0	...	2. 55. 6.21		6.88				14. 55. 54.27	+	1.49				
		10	Groomb. 2194 S.P.	B	...	...	...	...	...	14.0	17.9	21.9	29.5	33.5	37.5	3. 4. 14.04		14.54				15. 5. 1.94	-	0.34				
		11	Lalande 5851	B	...	...	...	...	...	...	21.5	25.2	29.1	51.5	14.0	3. 5. 6.74		7.04				3. 5. 54.44	-	6.02				
		12	Groomb. 2211 S.P.	B	...	...	...	...	...	8.0	12.6	16.9	25.9	30.1	34.7	3. 10. 7.91		8.46				15. 10. 55.86	+	0.25				
		13	Groomb. 2219 S.P.	B	...	...	...	...	...	35.7	40.9	46.3	56.8	2.1	7.6	3. 15. 35.46		36.08				15. 16. 23.48	+	1.08				
		14	Groomb. 2222 S.P.	B	10.2	15.6	21.1	26.4	42.5	48.0	53.2	3.9	9.1	14.4	...	3. 16. 42.36		42.98				15. 17. 30.38	+	1.09				
		15	* N.P.D. 32° 50'.	B	...	55.1	59.8	8.0	12.6	17.5	30.8	35.4	40.0	...	...	3. 20. 17.49		17.72				3. 21. 5.12	-	6.88				
		16	B.D. + 15° No. 495	B	...	7.1	9.7	...	...	20.0	27.6	...	...	35.5	...	3. 24. 20.00		20.48				3. 25. 7.88	-	4.84				
		17	Groomb. 2248 S.P.	B	...	...	...	...	...	21.5	25.6	34.1	38.3	42.8	...	3. 28. 16.99		17.52				15. 29. 4.92	+	0.23				
		18	B.D. + 16° No. 474	B	...	...	...	...	...	26.3	34.0	36.3	38.9	41.6	...	3. 30. 26.22		26.70				3. 31. 14.10	-	4.85				
		19	B.D. + 28° No. 560	B	...	...	...	20.1	22.9	25.8	34.0	36.9	39.6	42.3	...	3. 33. 25.71		26.13				3. 34. 13.53	-	5.19				
		20	W. B. (2) III. 726	B	50.1	53.0	55.9	1.6	4.1	7.1	15.3	18.1	20.9	23.9	...	3. 35. 7.04		7.46				3. 35. 54.86	-	5.19				
		21	Piazzi III. 128 ...	B	26.1	28.8	31.5	36.6	39.2	42.0	49.9	52.4	55.1	58.0	...	3. 37. 42.00		42.45				3. 38. 29.85	-	4.97				
		22	B.D. + 23° No. 517	B	...	...	...	52.8	55.5	58.2	6.1	...	...	...	...	3. 38. 58.20		58.64				3. 39. 46.04	-	5.06				
		23	W. B. (2) III. 845	B	...	...	...	14.5	...	20.0	28.0	...	...	36.1	...	3. 39. 19.97		20.41				3. 40. 7.81	-	5.07				
		24	W. B. (2) III. 846	B	...	...	...	16.7	...	22.1	30.1	...	...	38.2	...	3. 39. 22.10		22.54				3. 40. 9.94	-	5.07				
		25	B.D. + 23° No. 523	B	...	...	...	...	...	33.2	41.1	44.0	46.7	49.5	...	3. 39. 33.23		33.67				3. 40. 21.07	-	5.07				
		26	η Tauri	B	...	...	...	32.3	35.2	43.1	46.0	48.7	51.5	...	...	3. 40. 35.21		35.65	23.10	47.45		3. 41. 23.05	-	5.06				
		27	B.D. + 44° No. 819	B	33.0	36.2	40.0	47.0	50.2	54.0	4.1	7.6	11.1	14.6	...	3. 49. 53.84		54.16				3. 50. 41.56	-	6.01				
		28	Oeltz. Arg. (N.) 15973 S.P.	B	...	...	...	...	44.1	57.2	8.9	32.5	44.9	56.5	...	3. 50. 44.71		45.75				15. 51. 33.15	+	7.59				
		29	Oeltz. Arg. (N.) 4409	B	...	...	32.9	43.5	48.8	54.0	9.5	14.9	...	...	...	3. 56. 54.04		54.20				3. 57. 41.60	-	7.85				
		30	Lalande 7413	B	...	...	13.9	24.2	29.3	34.9	50.2	55.8	...	...	...	3. 57. 34.86		35.02				3. 58. 22.42	-	7.87				
		31	Lalande 7430	B	...	...	38.7	49.0	54.2	59.8	15.4	20.5	...	...	...	3. 57. 59.71		59.87				3. 58. 47.27	-	7.86				
		32	Lalande 7433	B	...	...	40.8	51.3	...	2.0	17.4	22.7	...	...	...	3. 58. 1.89		2.05				3. 58. 49.45	-	7.86				
		33	Piazzi III. 242 ...	B	37.4	...	...	49.8	52.9	...	...	...	11.8	14.9	...	3. 59. 56.15		56.52				4. 0. 43.92	-	5.65				
		34	50 Persei	B	39.6	42.5	45.9	...	...	...	...	10.6	13.9	17.1	...	4. 0. 58.30		58.67				4. 1. 46.07	-	5.66				
		35	Groomb. 2319 S.P.	B	...	...	50.0	57.6	19.7	27.4	34.9	49.2	...	...	...	4. 4. 19.65		20.42				16. 5. 7.82	+	3.52				
		36	Oeltz. Arg. (N.) 15970 S.P.	B	...	...	59.8	6.9	29.1	36.8	44.0	58.7	...	...	...	4. 4. 29.07		29.84				16. 5. 17.24	+	3.53				
		37	Groomb. 2327 S.P.	B	19.4	25.5	32.0	...	...	...	...	22.0	28.1	34.8	...	4. 11. 56.90		57.58				16. 12. 44.98	+	2.50				
		38	Piazzi XVI. 69 S.P.	B	...	...	...	...	7.7	14.0	20.2	32.1	38.8	45.1	...	4. 13. 7.59		8.28				16. 13. 55.69	+	2.45				
		39	Lalande 29917 S.P.	B	...	...	...	...	41.0	47.9	54.1	7.1	13.5	20.0	...	4. 15. 41.19		41.89				16. 16. 29.30	+	2.62				
		40	η Ursæ Min. S.P.	B	37.1	47.7	...	8.0	38.0	48.5	58.7	...	29.0	38.9	...	4. 19. 38.09		39.03				16. 20. 26.44	+	6.41				
		41	η Draconis S.P. ...	B	...	19.6	24.9	30.0	45.4	50.8	56.1	6.1	11.8	...	...	4. 21. 45.49		46.10				16. 22. 33.51	+	1.47				
		42	Groombridge 836	B	26.4	34.2	42.1	57.9	6.0	13.9	...	...	...	...	...	4. 25. 13.72		13.70				4. 26. 1.11	-	10.61				
		43	B.D. + 13° No. 694	B	...	...	...	...	...	57.6	0.5	2.9	18.0	...	...	4. 25. 47.70		48.20				4. 26. 35.61	-	4.80				
		44	W. B. IV. 531	B	57.9	0.3	2.9	8.0	10.4	13.1	20.5	23.0	25.7	28.1	...	4. 27. 13.03		13.53				4. 28. 0.94	-	4.80				
		45	Groombridge 862	B	12.1	16.0	20.0	27.6	31.4	35.3	46.5	50.3	54.2	58.2	...	4. 33. 35.22		35.50				4. 34. 22.91	-	6.53				
		46	Groomb. 2370 S.P.	B	29.5	35.1	40.6	46.0	2.2	8.0	13.4	24.2	29.6	35.4	...	4. 35. 2.32		2.95				16. 35. 50.36	+	1.84				
		47	Groomb. 2378 S.P.	B	...	...	...	...	3.3	14.9	27.1	51.5	3.6	15.1	...	4. 37. 3.81		4.85				16. 37. 52.26	+	8.14				
		48	Groomb. 2379 S.P.	B	4.3	16.2	28.2	38.7	13.6	25.4	37.1	59.8	12.5	24.1	...	4. 38. 13.81		14.85				16. 39. 2.26	+	8.11				
		49	Groomb. 2382 S.P.	B	...	...	...	...	...	57.0	9.2	20.9	32.2	...	...	4. 39. 9.83		10.87				16. 39. 58.28	+	8.22				
		50	π ¹ Orionis	B	...	15.8	18.2	23.1	25.7	28.1	35.6	38.1	40.5	...	...	4. 43. 28.19		28.71				4. 44. 16.12	-	4.65				
		51	W. B. IV. 912	B	43.5	46.0	48.5	53.3	56.0	58.5	5.8	8.1	10.7	13.3	...	4. 43. 58.41		58.93				4. 44. 46.34	-	4.63				
		52	Piazzi IV. 191 ...	B	...	...	56.8	14.3	23.5	33.0	59.5	8.6	...	...	...	4. 48. 32.80		32.71				4. 49. 20.12	-	11.94				
		53	α ² Orionis	B	32.9	35.5	38.0	43.0	45.5	48.1	55.8	58.2	0.7	3.4	...	4. 49. 48.15		48.65				4. 50. 36.06	-	4.78				
		54	11 Camelopardi ..	B	...	1.9	6.7	16.1	20.9	25.9	40.0	44.9	49.5	...	...	4. 56. 25.83		26.04				4. 57. 13.45	-	7.61				

4. Observed over wire T with the transit-micrometer set to readings 34° 100, 34° 600, 35° 100, 35° 600, 36° 100, 36° 600, 37° 100.

5. Very faint.

11. Observed over wires V, W, X, Y and Z.

17. Observed in dark field with wires illuminated.

43. Observed in dark field with wires illuminated over wires V, W, X and Y.

49. Observed over wires Q, P, O and N.

MONTH and DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appari- rently Slow.	Adopted Clock slow at o Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
Nov. 10	1	12 Camelopardi...	B	0.2	4.9	10.0	19.5	24.0	29.1	43.4	48.0	52.8	57.8	4. 56. 29.04	+ 2.56	29.24			47.37	4. 57. 16.65	- 7.62	
	2	Groombridge 924	B	...	...	...	...	...	...	55.4	4.4	13.6	23.5	5. 3. 28.10	(- 0.04)	28.01			[+ 0.20]	5. 4. 15.42	- 12.18	
	3	Rigel	B	...	36.0	38.5	43.6	46.0	48.5	56.0	58.5	1.1	...	5. 8. 48.58	[+ 7.56]	49.19	36.59	47.40	...	5. 9. 36.60	- 4.25	
	4	β Tauri	C	43.4	46.2	49.1	54.8	57.5	0.4	8.6	11.5	14.3	17.1	5. 19. 0.33		0.75	48.28	47.53	47.41	.....		
	5	δ Orionis	C	43.1	45.6	...	53.2	55.5	58.0	...	7.6	10.1	12.6	5. 25. 57.94		58.50	45.87	47.37	.....	.....		
	6	ε Orionis	B	57.6	...	2.5	7.6	10.0	12.4	19.8	22.1	...	27.4	5. 30. 12.47		13.04	0.46	47.42	47.37	5. 31. 0.46	- 4.33	
Nov. 11	7	β Andromedæ ...	AC	52.9	55.9	58.9	4.9	7.9	10.9	19.9	22.8	26.0	29.0	1. 3. 10.95	(- 0.77)	11.25	58.93	47.68	47.64	.....		
	8	Polaris	AC	13.7	0.9	20.9	52.0	0.6	26.7	34.4	44.6	54.0	29.3	1. 21. 10.42	[+ 6.67]	3.96	51.48	47.52	[+ 0.19]	.....		
	9	η Piscium	AC	56.1	58.8	1.3	...	...	11.5	...	21.6	24.1	26.8	1. 25. 11.48		11.89	59.41	47.52	.....	.....		
	10	β Arietis	AC	...	57.0	59.7	4.8	7.5	10.1	18.0	20.5	23.1	...	1. 48. 10.13		10.50	58.16	47.66	.....	.....		
	11	β Arietis... (E&E)	AC	50.2	6.0	22.0	...	53.6	9.3	25.2	...	...	...	1. 48. 10.04		10.41	58.16	47.75	.....	.....		
	12	ι Arietis	AC	41.0	43.7	46.2	51.4	54.0	56.6	4.1	6.9	9.3	12.0	1. 50. 56.56		56.95	...	...	1. 51. 44.60	- 4.58		
	13	α Arietis	AC	...	...	24.4	29.8	32.2	35.3	43.1	45.7	48.4	51.3	2. 0. 35.14		35.51	23.24	47.73	.....	.....		
Nov. 12	14	⊙ 1 L.	CD	34.1	36.7	39.4	44.5	47.0	49.9	57.4	0.0	2.7	5.5	15. 10. 49.76	[+ 7.56]	58.63	51.02	46.80	47.56	15. 12. 46.29		
	15	⊙ 2 L.	CD	50.5	53.1	55.8	0.9	3.6	6.2	14.0	16.5	19.1	21.9	15. 13. 6.20					[+ 0.16]			
	16	Polaris	CD	29.6	38.0	44.9	4.0	14.0	24.3	47.2	54.0	1.8	28.2	1. 21. 12.35					4.22	51.02	46.80	47.72
	17	η Piscium	CD	56.0	58.5	1.1	6.1	8.6	11.3	18.9	21.4	24.0	26.6	1. 25. 11.29		11.74	59.41	47.67				
	18	ο Piscium	CD	55.3	57.9	0.3	5.1	7.7	10.2	17.6	20.1	22.7	25.4	1. 39. 10.27		10.74	58.44	47.70	.....	.....		
	19	ο Piscium.. (E&E)	CD	54.2	9.1	...	39.2	...	9.1	24.3	...	...	...	1. 39. 10.15		10.62	58.44	47.82	.....	.....		
	20	ν Ceti	CD	26.4	28.9	31.4	36.2	38.6	41.3	48.5	51.0	53.6	56.1	2. 29. 41.24		41.73	29.46	47.73	.....	.....		
	21	Carrington 2200 S.P.	CD	...	54.6	12.9	...	22.2	...	32.2	49.9	...	...	2. 34. 22.11		23.76	...	...	14. 35. 11.50	+ 9.54		
	22	Carrington 2200 S.P.	CD	31.0	12.0	56.0	40.0	25.0	54.0	39.0	19.0	8.0	49.0	3. 12. 40.13		7.88	...	...	3. 12. 55.62	- 37.09		
	23	Groomb. 2262 S.P.	CD	20.1	24.1	28.1	32.1	43.9	47.9	51.7	59.5	3.5	7.1	3. 34. 43.74		44.26	...	...	15. 35. 32.00	- 0.10		
	24	Groomb. 2273 S.P.	CD	...	...	...	...	49.6	54.0	58.1	6.2	10.2	14.3	3. 40. 49.66		50.20	...	...	15. 41. 37.94	+ 0.16		
	25	Oeltz. Arg. (N.) 4266	CD	20.2	24.1	28.2	36.2	40.3	44.5	56.2	0.5	4.5	8.6	3. 47. 44.39		44.57	...	...	3. 48. 32.32	- 6.62		
	26	Carrington 2405 S.P.	CD	...	...	...	32.9	23.1	41.4	58.1	31.9	49.8	6.9	3. 54. 23.31		24.93	...	...	15. 55. 12.68	+ 12.72		
	27	ω ¹ Tauri	CD	7.6	10.0	12.7	18.0	20.4	23.1	30.9	33.6	36.1	38.9	4. 2. 23.17		23.58	11.32	47.74	.....	.....		
	28	Oeltz. Arg. (N.) 4611	CD	43.8	48.9	54.1	4.4	9.9	15.1	30.4	35.6	40.9	46.2	4. 8. 15.01		15.08	...	...	4. 9. 2.83	- 7.92		
	29	19 Ursæ Min. S.P.	CD	...	...	...	...	52.1	2.5	...	43.4	53.9	...	4. 12. 51.95		53.01	...	...	16. 13. 40.76	+ 6.49		
	30	Groombridge 828	CD	1.6	9.4	17.9	34.0	42.0	50.3	14.4	22.4	30.7	39.3	4. 20. 50.32		50.14	...	...	4. 21. 37.89	- 10.92		
	31	B.D. + 41° No. 923	CD	56.1	59.5	2.8	9.4	12.6	16.1	26.0	29.2	32.5	36.0	4. 30. 16.07		16.34	...	...	4. 31. 4.09	- 6.00		
	32	Carrington 2502 S.P.	CD	...	...	...	41.1	34.9	53.4	11.2	...	...	...	4. 35. 34.77		36.45	...	...	16. 36. 24.20	+ 14.34		
	33	Lalande 8878 ...	CD	51.8	58.3	4.9	18.0	24.6	31.4	51.0	57.7	4.1	10.9	4. 41. 31.37		31.32	...	...	4. 42. 19.07	- 9.55		
	34	Oeltz. Arg. (N.) 5270	CD	...	15.1	18.9	26.0	30.0	33.5	44.4	48.0	51.9	...	4. 46. 33.55		33.77	...	...	4. 47. 21.52	- 6.44		
	35	Groomb. 2398 S.P.	CD	...	0.5	10.2	20.1	49.3	59.9	9.8	29.1	39.2	...	4. 51. 49.57		50.61	...	...	16. 52. 38.36	+ 6.48		
	36	Piazzi XVI. 291 S.P.	CD	...	15.2	20.0	24.2	37.6	42.4	46.9	55.8	0.5	...	4. 56. 37.74		38.33	...	...	16. 57. 26.08	+ 0.90		
	37	Oeltz. Arg. (N.) 1682 S.P.	CD	...	...	...	...	4.0	9.2	14.0	23.6	28.7	33.8	5. 1. 4.14		4.76	...	...	17. 1. 52.51	+ 1.37		
	38	Bradley 729	CD	...	...	39.1	44.1	46.5	49.1	56.5	59.1	...	...	5. 7. 49.12		49.70	...	...	5. 8. 37.45	- 4.29		
	39	Neptune 1 L.	CD	18.2	...	23.6	...	34.2	...	44.9	...	50.2	...	5. 14. 34.24		34.73	...	...	5. 15. 22.48			
	40	Neptune 2 L.	CD	...	21.2	...	29.0	31.7	...	42.1	...	47.8	...	5. 14. 34.42					17. 24. 19.11	+ 1.41		
	41	Radcliffe 3714 S.P.	CD	...	...	11.2	16.0	30.7	35.9	40.6	50.5	...	...	5. 23. 30.72		31.35	...	...	5. 29. 29.23	- 4.66		
	42	λ Orionis (1st Star) ..	CD	26.0	...	30.9	...	41.0	...	51.0	...	56.0	...	5. 28. 41.00		41.47	...	...	5. 29. 29.33	- 4.66		
	43	λ Orionis (2nd Star) ..	CD	...	28.5	...	36.0	38.5	...	48.5	...	53.7	...	5. 28. 41.10		41.57	...	...	5. 35. 28.07	- 23.24		
	44	Carrington 789 ...	CD	...	...	...	...	41.9	...	59.7	20.0	40.1	...	5. 34. 41.40		40.31	...	...	5. 43. 4.52	- 3.78		
	45	Lacaille 1990 ...	CD	59.2	1.9	4.7	10.2	13.2	16.0	24.3	27.2	30.0	33.0	5. 42. 16.01		16.76	...	...	.....	.....		
	46	α Orionis	CD	33.8	36.1	38.9	43.6	46.1	48.7	56.0	58.6	1.1	3.7	5. 48. 48.70		49.18	36.99	47.81	.....	.....		
	47	ν Orionis	CD	...	...	...	...	4.6	7.1	9.9	25.1	40.4	...	6. 0. 54.50		54.95	42.71	47.76	.....	.....		
	48	Groomb. 2539 S.P.	CD	35.5	40.1	44.8	49.2	2.2	7.1	11.6	20.5	24.9	29.5	6. 12. 2.47		3.05	...	...	18. 12. 50.81	+ 0.77		
	49	Groombridge 1151	CD	...	...	...	...	46.9	22.2	34.1	46.2	58.9	...	6. 23. 46.86		46.38	...	...	6. 24. 34.14	- 14.86		
	50	α Hydræ	S	28.3	31.1	33.6	38.4	40.9	43.5	50.9	53.4	56.0	58.7	9. 21. 43.52		44.10	31.72	47.62	47.60	9. 22. 31.76	- 3.15	
	51	ξ Leonis	S	20.7	23.2	25.9	30.8	33.4	36.0	43.3	46.0	48.4	51.1	9. 25. 35.92		36.38	23.95	47.57	9. 26. 24.04	- 3.57		

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 11, 19 and 22, — 87^m.71 : — 89^m.07 : and — 89^m.17.

2. Observed in dark field with wires illuminated.

3, 29. Cloudy.

8. Observed over wire P with the transit-micrometer set to readings 34^m.895, 35^m.288, 35^m.451, 35^m.715, 35^m.799, 36^m.022, 36^m.095, 36^m.195, 36^m.270, 36^m.574.

16. Observed over wire Q with the transit-micrometer set to readings 35^m.035, 35^m.100, 35^m.164, 35^m.335, 35^m.410, 35^m.504, 35^m.690, 35^m.754, 35^m.830, 36^m.050.

22. Observed over wire T with the transit-micrometer set to readings 35^m.100, 35^m.200, 35^m.300, 35^m.400, 35^m.500, 35^m.700, 35^m.800, 35^m.900, 36^m.000, 36^m.100.

47. Observed over wires V, W, X, Y and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s	h	m	s	h	m	s	h									m	s
Nov. 12	1	Hydræ.....	S	32.9	35.4	37.9	42.8	45.1	47.8	55.0	57.6	0.0	2.5	9.33.47.74	+ 2.56	48.27			47.60	9.34.35.93	- 3.25
	2	Leonis.....	S	36.2	38.8	41.4	46.3	48.9	51.5	59.0	1.1	3.9	6.6	9.34.51.41	(- 0.77)	51.87	39.45	47.58	[+ 0.16]	9.35.39.53	- 3.47
	3	Leonis.....	S	56.2	59.1	1.7	7.1	10.0	12.7	20.7	23.3	26.1	28.9	9.39.12.62	[+ 7.56]	13.01	0.66	47.65		9.40.0.67	- 3.77
	4	11 Cephei S.P.	S	...	...	...	...	...	...	5.5	13.4	20.9	6.0	9.39.35.65		36.50				21.40.24.16	+ 0.05
	5	Lalande F. 1558..	S	...	...	...	...	...	...	30.2	46.3	1.5	17.6	9.45.44.30		43.54				9.46.31.21	- 10.09
	6	Carrington 1447..	S	...	...	...	...	...	...	10.1	25.8	41.6	58.1	9.47.24.05		23.29				9.48.10.96	- 10.01
	7	Regulus.....	S	50.0	52.5	55.1	0.1	2.6	5.3	12.7	15.3	17.9	20.5	10.2.5.24		57.0	53.33	47.63		10.2.53.37	- 3.33
	8	*N.P.D. 20° 25' S.P.	S	43.2	51.0	58.0	5.1	26.0	33.5	40.7	54.2	2.1	9.0	10.7.26.17		26.99				22.8.14.66	- 0.93
	9	Groomb. 3719 S.P.	S	46.1	53.5	0.9	8.0	28.9	36.0	43.3	57.4	4.6	11.8	10.7.28.94		29.76				22.8.17.43	- 0.93
	10	Groombridge 1631	S	16.7	23.8	30.6	44.7	51.9	59.5	...	...	...	...	10.11.59.13		59.04				10.12.46.71	- 5.48
	11	Piazzi XXII. 92 S.P.	S	0.5	4.9	9.5	14.0	26.8	31.1	35.6	44.1	48.5	52.9	10.18.26.72		27.29				22.19.14.96	- 2.23
	12	30 Sextantis	S	58.5	0.9	3.4	8.2	10.7	13.3	20.4	23.0	25.6	28.0	10.24.13.24		13.78				10.25.1.45	- 2.97
	13	Bradley 1446	S	...	...	...	13.1	23.3	34.0	4.6	...	...	...	10.25.33.97		33.60				10.26.21.27	- 6.07
	14	Jupiter 1 L.	S	13.5	...	18.5	...	...	28.5	...	38.3	...	43.6	10.37.28.48							
	15	Jupiter 2 L.	S	15.8	...	20.9	...	...	30.9	...	40.9	...	46.0	10.37.30.92		30.17				10.38.17.84	
	16	Leonis.....	S	47.1	49.7	52.2	57.2	59.8	2.2	9.6	12.1	14.9	17.6	10.43.2.28		2.74	50.49	47.75		10.43.50.41	- 3.05
	17	Cephei S.P.	S	...	...	...	...	...	...	24.8	36.6	42.7	48.4	10.45.12.63		13.36				22.46.1.03	- 2.27
	18	54 Leonis	S	57.5	0.2	3.0	8.5	11.1	14.0	22.0	24.8	27.6	30.3	10.49.13.94		14.32				10.50.1.99	- 3.20
	19	W.B. (2) X. 966..	S	58.0	0.7	3.5	8.9	11.7	14.4	22.4	25.2	28.1	30.9	10.49.14.42		14.80				10.50.2.47	- 3.20
	20	Leonis.....	S	10.9	13.5	16.0	21.0	23.4	26.0	33.3	35.9	38.3	40.9	10.54.25.96		26.46	14.21	47.75		10.55.14.13	- 2.87
	21	π Cephei S.P.	S	52.1	2.0	11.6	21.1	49.1	59.1	8.2	27.0	36.4	45.9	11.3.49.11		50.13				23.4.37.80	- 2.28
	22	δ Leonis	S	33.6	36.2	39.0	44.1	46.9	49.6	...	...	...	...	11.7.49.53		49.93	37.68	47.75		11.8.37.60	- 3.01
	23	θ Leonis	S	...	...	...	...	...	1.9	9.4	12.0	14.5	17.2	11.8.1.80		2.24				11.8.49.91	- 2.93
	24	σ Leonis	S	46.0	48.5	50.9	56.0	58.6	1.0	8.1	10.9	13.5	16.0	11.15.0.99		1.48				11.15.49.16	- 2.77
	25	Leonis.....	S	29.7	32.1	34.8	39.8	42.2	44.9	52.2	54.8	57.3	59.9	11.17.44.81		45.27				11.18.32.95	- 2.82
	26	λ Draconis	S	46.2	...	0.5	14.9	22.1	29.6	50.7	58.0	...	12.6	11.24.29.43		29.33				11.25.17.01	- 3.32
	27	γ Cephei S.P.	S	...	...	...	47.1	19.6	31.1	41.9	...	...	...	11.34.19.70		20.83				23.35.8.51	- 3.51
	28	β Leonis	S	44.5	47.0	49.6	54.6	57.1	59.8	7.2	9.9	12.5	15.1	11.42.59.77		0.22	47.91	47.69		11.43.47.90	- 2.67
	29	Polaris S.P.	S	21.0	30.0	43.9	55.2	5.1	19.9	30.2	...	...	...	13.20.55.04		3.89	50.78	46.89		1.21.51.58	- 56.93
	30	Arcturus	S	52.9	55.6	58.1	3.3	6.0	8.7	16.4	19.1	21.8	24.5	14.10.8.68		9.09	56.79	47.70		14.10.56.78	- 1.76
	31	ε² Boötis	S	23.4	26.1	...	34.3	37.1	40.0	48.3	...	54.0	56.9	14.39.40.05		40.42	28.19	47.77		14.40.28.12	- 1.52
	32	β Ursæ Minoris...	S	13.2	22.2	...	50.2	59.8	9.1	...	...	...	56.0	14.50.9.00		8.72				14.50.56.42	+ 3.87
Nov. 13	33	⊙ 2 L.	S	56.0	58.4	1.1	6.2	9.0	11.7	19.5	22.0	24.7	27.2	15.17.11.62		12.27				15.16.51.58	
	34	η Aquarii	S	1.2	3.8	6.1	10.9	13.5	16.0	23.5	26.0	28.3	30.9	22.29.16.06		16.59	4.24	47.65		22.30.4.34	- 3.57
	35	31 Cephei	S	...	...	...	8.4	16.9	25.5	50.7	...	...	...	22.32.25.56		25.35				22.33.13.10	- 1.27
	36	δ 1 L.....	S	43.2	45.9	48.4	53.3	55.9	58.7	6.1	8.7	11.1	13.8	22.39.58.55		59.12				22.41.49.04	
Nov. 14	37	Polaris S.P.	B	24.0	29.1	36.9	44.0	13.3	19.4	26.4	38.2	45.0	56.6	13.20.54.28	[+ 6.79]	1.61	49.83	48.22	48.12	.....	
	38	η Boötis	B	41.6	44.1	46.9	52.0	54.6	57.3	5.1	7.7	10.3	12.9	13.48.57.29		57.68	45.90	48.22	[+ 0.16]	.....	
	39	Arcturus	B	52.3	55.0	57.9	2.8	5.5	8.1	16.0	18.7	21.2	24.0	14.10.8.19		8.57	56.82	48.25		.....	
	40	ε² Boötis	B	22.9	25.5	28.4	34.1	36.9	39.8	48.0	50.8	53.5	56.3	14.39.39.66		40.01	28.21	48.20		.....	
Nov. 15	41	⊙ 1 L.	B	51.7	54.3	57.0	2.1	4.7	7.5	15.1	17.8	20.3	23.2	15.23.7.41						15.25.4.86	
	42	⊙ 2 L.	B	9.0	11.5	14.1	19.4	22.0	24.6	32.4	35.1	37.7	40.3	15.25.24.65		16.64					
	43	α Coronæ	B	13.2	16.0	18.9	24.1	27.0	29.9	38.1	40.7	43.7	46.5	15.29.29.85		30.20	18.41	48.21		.....	
	44	Groomb. 1119 S.P.	B	6.8	13.7	19.8	42.6	50.0	6.7	44.0	49.5	57.2	3.0	19.54.34.11		42.60				7.55.30.85	- 115.88
	45	Polaris S.P.	R	18.1	34.6	52.0	0.5	10.0	17.6	30.1	40.9	50.6	58.8	13.20.52.88	[+ 7.42]	1.44	49.39	47.95	48.06	.....	
	46	η Boötis	B	41.5	44.1	46.8	52.0	54.5	57.2	4.9	7.6	10.1	12.8	13.48.57.19		57.60	45.92	48.32	48.23	.....	
	47	Arcturus	R	52.5	55.1	57.8	3.1	5.6	8.2	16.1	18.7	21.4	24.0	14.10.8.29		8.70	56.83	48.13	48.06	14.10.56.85	- 1.80
Nov. 16	48	ε Herculis	B	13.8	16.5	19.5	25.1	28.0	30.9	39.5	42.3	45.3	48.1	16.55.30.94	+ 2.41	31.25	19.62	48.37	48.23	.....	
	49	δ Ursæ Minoris...	R	45.4	54.8	59.9	4.8	10.6	17.0	21.4	28.2	34.1	40.9	18.4.26.46	(- 1.05)	23.39	11.08	47.69	48.06	.....	
	50	η Serpentis	R	...	...	...	...	...	9.3	16.4	19.0	21.5	24.0	18.15.9.19		9.71	57.90	48.19		18.15.57.89	- 2.27

Corrections for passage of Semidiameter, Nos. 33 and 36, — 68".39 and + 62".15.

4. Observed over wires Q, P, O and N.

14. A correction of — 0".02, for defect of illumination, has been applied in forming the concluded transit.

29. Observed over wire T with the transit-micrometer set to readings 35".900, 35".800, 35".700, 35".600, 35".500, 35".400, 35".300.

36. Correction to R.A. on true meridian, + 0".02.

37. Observed over wire O with the transit-micrometer set to readings 30".875, 30".836, 30".735, 30".678, 30".434, 30".375, 30".325, 30".210, 30".170, 30".110.

38, 43. Very faint; hazy.

44. Observed over wire T with the transit-micrometer set to readings 37".145, 37".095, 37".060, 36".880, 36".835, 36".700, 36".445, 36".379, 36".330, 36".285.

45. Observed over wire R with the transit-micrometer set to readings 35".305, 35".163, 35".007, 34".933, 34".849, 34".782, 34".667, 34".581, 34".502, 34".422.

49. Observed over wire U with the transit-micrometer set to readings 34".511, 34".770, 34".871, 34".988, 35".116, 35".310, 35".394, 35".570, 35".704, 35".850.

16, 19. Very faint.

31. Very faint; cloudy.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal, and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Level].								[Azimuth].
															h	m								s	"
Nov. 16	1	α Lyrae	R	18.2	21.6	24.7	31.1	34.1	37.4	46.7	49.9	53.1	56.2	18.32.37.35	+ 2.41	37.61	25.86	48.25	48.06	18.33.25.79	- 0.85		
	2	Cephei 51 S.P.	R	48.9	0.7	7.1	17.2	23.1	30.4	36.9	44.0	52.1	58.1	18.51.45.72	(- 1.05)	50.20	38.22	48.02	[+ 0.16]	.....	.....		
	3	ζ Aquilæ	R	...	...	...	...	48.7	51.2	58.7	1.3	3.9	6.5	18.59.51.23	[+ 7.42]	51.65	39.77	48.12	48.23	19.0.39.84	- 2.01		
	4	γ Aquilæ	B	...	...	...	...	...	32.5	39.9	42.3	44.9	47.4	19.40.32.42		32.86	21.18	48.32	48.06	.....	.....		
	5	α Aquilæ	R	...	...	...	...	...	...	3.5	6.1	8.6	11.2	19.44.56.18		56.63	44.91	48.28	48.06	19.45.44.82	- 2.41		
	6	θ Aquarii	R	20.7	23.1	25.5	30.5	33.0	35.5	43.0	45.5	48.0	50.5	22.10.35.57		36.12	24.30	48.18		22.11.24.33	- 3.59		
	7	γ Aquarii	R	16.9	19.4	22.0	26.9	29.3	31.9	39.1	41.6	44.0	46.7	22.15.31.82		32.33	20.51	48.18		22.16.20.54	- 3.49		
	8	γ Aquarii ..(B&E)	R	21.8	36.4	...	...	...	35.9	50.8	...	...	...	22.15.31.83		32.34	20.51	48.17		.....	.....		
Nov. 18	9	$\odot$ 2 L.	B	...	37.2	40.1	...	...	50.5	58.1	0.9	3.5	6.2	15.37.50.45	(- 0.64)	51.06			48.68	15.37.30.91	- 54.60		
	10	Polaris	B	38.9	48.2	0.3	27.6	36.6	4.9	14.0	47.1	57.1	15.3	1.21.9.27	[+ 6.87]	2.29	48.45	46.16	48.89	1.21.51.19	- 12.31		
	11	Carrington 203... ..	B	...	20.0	40.9	20.0	40.0	0.0	58.0	18.0	38.2	...	1.21.59.77		58.86				1.22.47.76	- 4.42		
	12	η Piscium	B	54.9	57.5	0.0	5.1	7.7	10.1	17.8	20.2	22.9	25.7	1.25.10.23		10.64	59.40	48.76		1.25.59.24	- 4.40		
	13	ν Piscium	B	1.3	3.8	6.2	11.1	13.6	16.1	23.6	26.0	28.5	31.1	1.35.16.17		16.63	5.45	48.82		1.36.5.53	- 4.41		
	14	α Trianguli	B	...	...	...	18.9	21.8	24.6	33.1	36.0	38.6	41.7	1.46.24.67		25.00				1.47.13.91	- 4.73		
	15	50 Cassiopeiæ...R.	B	4.3	12.1	20.6	36.0	...	...	...	...	...	...	1.53.52.10		52.24				1.54.41.15	- 7.87		
	16	50 Cassiopeiæ....	B	...	...	...	...	...	16.0	24.0	32.0	40.2	...	1.53.52.46		52.34				1.54.41.25	- 7.87		
	17	19 Arietis	B	...	...	28.0	33.1	35.6	38.1	45.9	48.2	...	...	2.6.38.20		38.61				2.7.27.52	- 4.64		
	18	Groombridge 474 ..	B	24.0	28.0	32.1	40.0	44.1	48.1	0.0	4.0	8.1	12.1	2.7.48.11		48.29				2.8.37.20	- 5.73		
	19	67 Ceti	B	47.9	50.2	52.9	57.8	0.1	2.8	10.1	12.6	15.1	17.7	2.11.2.76		3.29	52.15	48.86		2.11.52.20	- 4.46		
	20	B.D. - 1° No. 313 ..	B	...	...	...	...	54.2	56.8	4.0	6.2	8.7	11.3	2.11.56.58		57.07				2.12.45.98	- 4.50		
	21	Groomb. 2102 S.P. ..	B	14.1	18.1	22.5	27.1	40.0	44.5	48.8	57.2	1.6	6.1	2.14.39.93		40.44				14.15.29.35	- 0.58		
	22	PiazzixIV.79 S.P. ...	B	...	19.4	23.8	28.0	40.4	44.6	49.0	57.1	1.6	...	2.17.40.41		40.89				14.18.29.80	- 0.64		
	23	Lalande 4536	B	20.1	22.8	25.5	30.9	33.6	36.3	44.2	47.1	49.9	52.6	2.21.36.34		36.71				2.22.25.62	- 4.86		
	24	PiazzixII.92	B	...	...	...	...	...	6.0	8.6	11.7	28.6	45.6	2.21.54.72		55.05				2.22.43.96	- 4.98		
	25	δ I L.	B	18.0	20.5	23.3	28.6	31.2	34.0	42.2	44.7	47.4	50.1	2.24.34.04		34.43				2.26.28.27	- 32.97		
	26	Lalande F. 382-3 ..	B	28.0	36.5	44.7	2.1	10.2	18.3	...	...	...	...	2.30.53.30		50.98				2.31.39.89	- 35.07		
	27	Carrington 2193 S.P.	B	...	...	...	...	...	35.1	56.0	36.0	56.6	...	2.32.14.75		16.37				14.33.5.28	- 11.32		
	28	Carrington 364 ...	B	26.7	35.1	44.0	1.8	11.1	20.1	...	...	...	...	2.35.53.13		50.68				2.36.39.59	- 35.07		
	29	β Fornacis.....	B	41.1	44.2	47.4	53.2	56.0	59.1	7.9	10.9	13.9	16.9	2.43.59.10		59.82				2.44.48.73	- 4.43		
	30	Groomb. 2160 S.P. ...	B	12.2	16.7	20.8	24.7	36.7	40.8	44.6	52.6	56.5	0.6	2.46.36.56		37.04				14.47.25.95	- 0.46		
	31	Lalande 2798 S.P. ...	B	59.1	3.5	7.9	12.0	24.2	28.6	32.9	41.1	45.5	49.6	2.51.24.38		24.87				14.52.13.78	- 0.14		
	32	Groomb. 2175 S.P. ...	B	11.5	15.7	20.2	24.8	38.0	42.3	46.7	55.5	0.0	4.6	2.55.37.86		38.37				14.56.27.29	- 0.01		
	33	Groomb. 2179 S.P. ...	B	11.8	16.2	20.9	25.2	38.1	42.6	47.1	56.0	0.2	4.9	2.56.38.23		38.74				14.57.27.66	- 0.02		
	34	Lalande 5851	B	43.1	46.9	50.6	58.0	1.9	5.7	16.6	20.3	24.0	28.0	3.5.5.57		5.77				3.5.54.69	- 6.12		
	35	Groomb. 2219 S.P. ...	B	1.6	7.1	12.5	18.0	34.0	39.4	44.7	55.5	0.8	6.0	3.15.33.88		34.47				15.16.23.39	+ 1.05		
	36	64 Arietis	B	9.6	12.1	14.9	20.1	23.0	25.9	33.9	36.4	39.2	42.0	3.17.25.75		26.12				3.18.15.04	- 5.12		
	37	PiazzixIII.52	B	7.5	11.1	15.0	22.5	26.2	30.2	41.5	45.1	48.9	53.1	3.19.30.17		30.38				3.20.19.30	- 6.28		
	38	B.D. + 12° No. 485 ..	B	...	...	...	...	...	46.9	54.2	56.9	59.5	2.0	3.23.46.85		47.28				3.24.36.20	- 4.85		
	39	ϵ Eridani	B	1.7	4.1	6.7	11.7	14.1	16.9	24.1	26.8	29.3	31.9	3.27.16.77		17.31	6.20	48.89		3.28.6.23	- 4.44		
	40	Groomb. 2252 S.P. ...	B	...	...	...	...	...	16.8	22.3	28.1	2.6	...	3.28.53.71		54.33				15.29.43.25	+ 1.58		
	41	W.B. (2) III. 726 ..	B	...	...	54.7	0.1	3.0	5.9	14.1	17.1	...	...	3.35.5.87		6.22				3.35.55.14	- 5.30		
	42	W.B. (2) III. 732 ..	B	...	40.4	44.0	50.5	53.9	57.4	7.1	10.4	14.0	...	3.35.57.28		57.54				3.36.46.46	- 5.93		
	43	PiazzixIII.138	B	...	38.0	40.6	45.7	48.1	50.9	58.1	0.6	3.3	...	3.37.50.71		51.26				3.38.40.18	- 4.49		
	44	20 Tauri	B	...	...	...	48.8	51.3	54.1	2.1	4.9	7.5	10.3	3.38.54.12		54.49				3.39.43.41	- 5.18		
	45	Oeltz. Arg. (N.) 4266 ..	B	19.2	23.1	27.4	35.2	39.4	43.6	55.3	59.5	3.5	7.8	3.47.43.46		43.64				3.48.32.56	- 6.73		
	46	Oeltz. Arg. (N.) 15854 S.P.	B	58.4	8.8	19.1	29.5	59.5	9.6	20.0	40.0	50.1	0.4	3.55.59.39		0.33				15.56.49.25	+ 6.20		
	47	17 Ursæ Min. S.P. ...	B	33.4	43.3	53.7	3.6	34.0	44.0	53.8	13.9	24.2	34.2	3.56.33.66		34.60				15.57.23.52	+ 6.16		
	48	Groomb. 2307 S.P. ...	B	...	...	...	...	3.8	10.1	16.9	29.6	36.4	43.1	3.59.3.56		4.25				15.59.53.17	+ 2.75		
	49	50 Persei	B	...	41.6	44.7	51.1	54.0	57.2	6.3	9.8	12.8	...	4.0.57.25		57.54				4.1.46.47	- 5.81		
	50	Oeltz. Arg. (N.) 4558-9 ..	B	30.0	33.7	37.5	45.2	49.0	53.1	4.2	8.2	12.1	16.1	4.4.52.97		53.17				4.5.42.10	- 6.65		
	51	Groombridge 783	B	...	...	...	...	...	30.9	40.2	49.2	58.9	...	4.6.3.80		3.59				4.6.52.52	- 12.01		
	52	Groombridge 787	B	...	...	...	35.6	44.6	54.5	21.6	...	...	...	4.6.54.27		54.06				4.7.42.99	- 12.04		

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 8, — 94".45.
 Corrections for passage of Semidiameter, Nos. 9 and 25, — 68".97 and + 64".92.

2. Observed over wire Q with the transit-micrometer set to readings 35° 970, 35° 760, 35° 633, 35° 430, 35° 308, 35° 167, 35° 015, 34° 888, 34° 736, 34° 611.
 9. Very faint; cloudy.
 10. Cloudy. Observed over wire O with the transit-micrometer set to readings 33° 472, 33° 570, 33° 680, 33° 889, 33° 980, 34° 215, 34° 315, 35° 115, 35° 190, 35° 350.
 20, 38. Observed in dark field with wires illuminated.
 24. Observed over wires V, W, X, Y and Z.
 25. Correction to R.A. on true meridian, + 0".01.
 26, 28. Observed over wire T with the transit-micrometer set to readings 35° 000, 35° 200, 35° 400, 35° 800, 36° 000, 36° 200.
 29, 32. Very faint.
 40. Observed over wires Q, P, O. and N.

1898GOAM..58A..1C

1898GOAM..58A..1C

12, 13, 20, 28. Observed in dark field with wires illuminated.

33, 37. Very faint.

39. Observed over wires Q, P, O and N.

MONTH.	DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.
					I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].						h	m	s	
					s	s	s	s	s	s	s	s	s	s		s	s								
1896 NOV.	Nov. 18	1	W.B. (2) VI. 1169	B	...	...	21.6	26.6	29.1	32.0	39.7	42.1	...	...	6. 39. 31.90	+ 2.41	32.29			48.89	6. 40. 21.24	—	4.88		
	2	W.B. (2) VI. 1200	B	18.6	21.1	24.0	29.0	31.6	34.2	42.0	44.5	47.2	50.0	6. 40. 34.26	(- 0.64)	34.65			[+ 0.21]	6. 41. 23.60	—	4.87			
	3	Bradley 2370 S.P.	B	...	...	53.7	58.9	14.0	19.0	24.1	34.1	...	...	6. 42. 13.87	[+ 6.87]	14.44				18. 43. 3.39	+	1.44			
	4	Lacaille 2470.....	B	53.5	56.1	59.4	4.9	7.7	10.5	18.6	21.5	24.1	27.3	6. 45. 10.40		11.07				6. 46. 0.02	—	3.66			
	5	θ Canis Majoris...	B	20.8	23.2	25.8	30.9	33.2	35.9	43.3	45.9	48.5	51.1	6. 48. 35.90		36.45	25.40	48.95		6. 49. 25.40	—	3.98			
	6	γ Canis Majoris...	B	2.0	4.5	7.1	12.1	14.9	17.5	25.0	27.6	30.1	32.9	6. 58. 17.41		17.99	7.00	49.01		6. 59. 6.94	—	3.87			
	7	Groomb. 2775 S.P.	B	...	...	...	...	12.7	22.0	31.0	48.4	57.4	6.4	7. 0. 12.73		13.60				19. 1. 2.55	+	5.32			
	8	Groombridge 1269	B	...	...	43.9	52.5	56.7	1.1	13.6	18.0	...	...	7. 4. 1.05		1.22				7. 4. 50.17	—	7.04			
	9	Groombridge 1304	B	...	9.1	17.2	33.2	40.9	48.5	11.8	19.4	27.6	...	7. 19. 48.61		48.50				7. 20. 37.45	—	10.55			
	10	Carrington 2948 S.P.	B	...	...	...	...	32.0	49.4	7.5	...	58.9	...	7. 23. 32.38		33.78				19. 24. 22.73	+	12.83			
	11	B.D. + 80° No. 614 S.P.	B	22.6	38.6	52.8	7.2	...	...	...	...	...	18.9	7. 23. 50.77		52.01				19. 24. 40.96	+	10.40			
	12	Castor	B	56.2	59.1	2.1	8.0	10.8	13.8	22.4	25.5	28.2	31.4	7. 27. 13.79		14.11	3.09	48.98		7. 28. 3.07	—	5.22			
	13	Castor (E&E)	B	58.9	16.5	34.0	51.4	9.0	26.3	43.9	...	...	...	7. 27. 13.78		14.10	3.09	48.99		.....					
	14	Procyon.....	B	51.4	54.0	56.5	1.3	3.9	6.2	13.6	16.1	18.7	21.3	7. 33. 6.34		6.80	55.76	48.96		7. 33. 55.76	—	4.21			
	15	Procyon ... (E&E)	B	59.1	14.2	29.0	44.0	58.9	13.8	28.6	...	...	...	7. 33. 6.29		6.75	55.76	49.01		.....					
	16	Piazzi XIX. 391 S.P.	C	...	...	...	...	2.9	7.7	12.2	22.0	26.5	30.8	7. 56. 3.19		3.72			48.89	19. 56. 52.68	+	0.26			
	17	Bradley 2592 S.P.	C	55.2	2.7	9.3	15.3	35.0	42.0	48.5	1.0	8.0	14.2	8. 3. 35.02		35.71				20. 4. 24.67	+	1.94			
	18	Groomb. 3129 S.P.	C	...	36.3	42.2	48.6	5.2	11.1	16.8	27.5	34.0	...	8. 12. 5.10		5.72				20. 12. 54.68	+	1.09			
	19	Lalande 3983 S.P.	C	38.3	55.4	10.0	26.2	10.2	27.5	42.1	13.3	30.0	45.8	8. 22. 11.65		12.94				20. 23. 1.90	+	8.95			
	20	W. B. VIII. 726...	C	19.4	21.6	24.1	28.7	31.2	33.8	41.5	44.0	46.3	49.0	8. 29. 34.00		34.45				8. 30. 23.41	—	4.00			
	21	γ Cancri.....	C	15.2	18.0	20.4	26.0	28.3	31.1	39.1	41.9	44.1	47.1	8. 36. 31.16		31.53	20.44	48.91		.....					
	22	Groombridge 1463	C	...	...	...	10.5	25.5	40.0	24.5	39.5	54.5	9.8	8. 39. 40.56		39.98				8. 40. 28.95	—	14.25			
	23	κ Cancri	C	6.2	8.7	11.3	16.2	18.8	21.4	29.0	31.4	34.0	36.5	9. 1. 21.39		21.82	10.78	48.96		.....					
	24	Groomb. 3404 S.P.	C	58.3	5.0	10.1	15.6	30.6	36.0	42.5	52.6	57.5	4.0	9. 4. 30.14		30.73				21. 5. 19.70	—	0.09			
	25	83 Cancri	C	9.7	12.2	15.1	20.0	22.5	25.1	32.9	35.5	38.1	40.9	9. 12. 25.24		25.63	14.63	49.00		.....					
	26	Oeltz. Arg. (N.) 9921	C	54.1	1.2	8.9	23.5	30.1	38.0	59.5	6.5	14.1	21.3	9. 22. 37.83		37.76				9. 23. 26.73	—	7.44			
	27	13 Leonis	C	37.8	40.3	43.3	48.8	51.5	54.1	2.4	5.1	8.0	10.9	9. 34. 54.26		54.61				9. 35. 43.58	—	4.07			
	28	Lalande F. 1479..	C	27.1	54.0	5.6	36.5	48.8	58.0	29.9	40.0	48.7	58.9	9. 42. 29.22		26.47				9. 43. 15.44	—	28.05			
	29	π Leonis.....	C	42.1	44.6	47.1	52.1	54.5	57.1	4.6	6.9	9.8	12.1	9. 53. 57.13		57.57	46.56	48.99		.....					
	30	Carrington 3400 S.P.	C	2.2	12.0	22.0	2.0	16.8	30.1	55.6	4.2	14.2	24.8	9. 58. 47.43		51.11				21. 59. 40.09	+	20.14			
	31	γ ¹ Leonis	C	12.8	15.4	18.0	23.4	26.0	28.5	36.6	39.1	41.9	44.6	10. 13. 28.67		29.05	17.98	48.93		.....					
	32	Lalande F. 1662..	C	...	...	...	...	47.6	5.1	56.4	...	30.6	48.1	10. 16. 5.29		4.55				10. 16. 53.53	—	9.69			
	33	ρ Leonis.....	C	20.9	23.3	26.0	30.9	33.5	36.1	43.5	46.0	48.7	51.1	10. 26. 36.04		36.48	23.42	48.96		.....					
	34	Groomb. 3827 S.P.	C	49.2	56.6	3.9	10.4	32.1	39.5	46.1	0.8	8.0	15.1	10. 29. 32.06		32.78				22. 30. 21.76	—	1.25			
	35	34 Sextantis	C	14.0	16.4	19.0	24.0	26.2	28.9	36.1	38.8	41.4	43.7	10. 36. 28.89		29.35				.....					
	36	Jupiter 1 L.	C	48.1	50.8	53.2	58.1	0.5	3.1	10.6	...	...	...	10. 40. 3.15		} 4.81				10. 40. 53.79					
	37	Jupiter 2 L.	C	...	...	55.5	...	...	5.6	13.0	15.5	18.1	20.6	10. 40. 5.58											
	38	d Leonis.....	C	10.0	12.5	14.9	20.0	22.2	24.9	32.1	34.8	37.2	39.9	10. 54. 24.89		25.35	14.40	49.05		.....					
	39	χ Leonis	C	37.6	40.1	42.6	47.8	50.1	52.8	0.1	2.5	5.2	7.7	10. 58. 52.69		53.14	42.17	49.03		.....					
	40	Polaris S.P.	AC	26.7	51.3	59.3	10.0	47.6	55.2	2.9	21.0	48.1	57.0	13. 20. 53.91	(- 0.21)	0.55	48.28	47.73	48.92	1. 21. 49.56	—	54.43			
	41	Arcturus	AC	51.9	54.2	56.9	2.1	4.9	7.5	15.2	18.0	20.5	23.1	14. 10. 7.47		7.88	56.89	49.01	[+ 0.17]	14. 10. 56.90	—	1.86			
	42	α Coronæ	AC	12.5	15.1	18.0	23.4	26.1	29.1	37.2	40.0	42.8	45.6	15. 29. 29.02		29.40	18.44	49.04		15. 30. 18.43	—	1.41			
Nov. 19	43	⊙ 1 L.....	AC	26.9	29.6	32.1	37.2	40.0	42.7	50.5	53.1	55.8	58.4	15. 39. 42.67		} 52.36				15. 41. 41.39					
	44	⊙ 2 L.....	AC	45.0	47.6	50.2	55.4	58.1	0.9	8.6	11.1	13.9	16.6	15. 42. 0.78						.....					
	45	δ Ursæ Minoris...	AC	34.7	44.0	55.9	8.9	38.8	51.0	1.8	10.0	34.0	42.3	18. 4. 23.67		21.73				18. 5. 10.78	+	40.38			
	46	Venus 1 L.....	AC	32.1	34.9	37.9	43.1	46.0	48.8	56.8	59.5	2.3	5.3	18. 6. 48.71		49.38				18. 7. 38.96					
	47	α Lyræ	AC	17.5	20.5	23.8	30.0	33.3	36.4	45.9	49.0	52.1	55.4	18. 32. 36.44		36.76	25.82	49.06		18. 33. 25.81	—	0.81			
	48	Cephei 51 S.P. ...	AC	4.8	11.0	18.2	24.9	47.3	52.0	58.0	4.0	22.6	27.6	18. 51. 47.12		50.24				6. 52. 39.29	—	54.09			
	49	γ Aquilæ	R.	16.6	19.1	21.7	26.6	29.1	31.7	...	...	...	...	19. 40. 31.68		32.15	21.15	49.00		19. 41. 21.21	—	2.28			
	50	α Aquilæ	R.	40.2	42.8	45.4	50.2	52.9	55.4	...	...	...	...	19. 44. 55.33		55.81	44.88	49.07		19. 45. 44.87	—	2.38			
	51	Groomb. 1119 S.P.	AC	17.1	27.1	37.0	55.1	59.5	11.0	19.4	29.3	54.5	6.5	19. 54. 41.92		49.58				7. 55. 38.64	—	120.51			
	52	α ¹ Capricorni.....	AC	51.1	53.6	56.0	1.2	3.8	6.2	13.9	16.4	18.9	21.6	20. 11. 6.31		6.88				20. 11. 55.94	—	3.03			

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 13 and 15, — 97".68 and — 97".68.
Correction for passage of Semidiameter, No. 46, + 0".53.

16. Faint.
28. Observed over wire T with the transit-micrometer set to readings 34".258, 34".895, 35".113, 35".762, 36".030, 36".203, 36".845, 37".051, 37".238, 37".478.
30. Observed over wire Q with the transit-micrometer set to readings 37".050, 36".870, 36".632, 35".850, 35".650, 35".368, 34".857, 34".700, 34".492, 34".330.
36. A correction of — 0".02, for defect of illumination, has been applied in forming the concluded transit.
40. Observed over wire U with the transit-micrometer set to readings 34".974, 34".760, 34".685, 34".585, 34".293, 34".201, 34".135, 33".969, 33".765, 33".680.
45. Observed over wire P with the transit-micrometer set to readings 35".125, 35".355, 35".635, 35".951, 36".672, 36".944, 37".219, 37".414, 37".992, 38".195.
48. Observed over wire X with the transit-micrometer set to readings 36".351, 36".225, 36".095, 35".957, 35".515, 35".416, 35".305, 35".184, 34".810, 34

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GGAJMM: 584

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level).		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].						h m s			
				s	s	s	s	s	s	s	s	s	s		#	s					s	s	s	
Nov. 19	1	α^2 Capricorni.....	AC	15.2	17.8	20.4	25.2	27.9	30.3	37.8	40.2	42.9	45.8	20. 11. 30.39	+ 2.41		30.96	20.09	49.13	48.92	20. 12. 20.02			- 3.04
	2	β Capricorni.....	AC	...	...	...	18.3	20.9	23.5	31.1	33.8	36.1	38.9	20. 14. 23.51	(- 0.21)		24.10	13.16	49.06	[+ 0.17]	20. 15. 13.16			- 3.10
	3	γ Draconis ...R.	AC	4.4	13.6	23.1	41.4	50.9	0.1	...	...	...	...	20. 32. 0.22	[+ 6.87]		0.20				20. 32. 49.27			+ 3.67
	4	6 Ursæ Maj. S.P.R.	AC	24.7	31.0	36.9	42.7	0.0	6.0	11.9	...	...	...	20. 47. 0.00			0.56				8. 47. 49.63			- 7.27
	5	θ Capricorni.....	AC	4.1	6.7	9.4	14.5	17.1	19.8	27.6	30.0	32.6	35.1	20. 59. 19.73			20.33	9.46	49.13		21. 0. 9.40			- 3.39
	6	2 Ceti.....	AC	23.5	26.0	28.9	33.9	36.5	39.1	46.8	49.4	52.0	54.6	23. 57. 39.11			39.72	28.88	49.16		23. 58. 28.81			- 4.15
	7	α Andromedæ ...	AC	58.1	0.9	3.8	9.4	12.0	14.9	23.4	26.1	29.0	31.9	0. 2. 14.99			15.36	4.49	49.13	49.09	0. 3. 4.45			- 3.87
	8	B.D. + 32° No. 10	AC	52.9	55.9	58.9	5.0	7.8	10.8	19.5	22.1	25.2	28.2	0. 4. 10.67			11.01				0. 5. 0.10			- 3.87
	9	ϵ Ceti.....	AC	7.1	9.6	12.1	17.1	19.5	22.1	29.7	32.0	34.5	37.1	0. 13. 22.12			22.67	11.80	49.13		0. 14. 11.76			- 4.13
	10	* N.P.D. 31° 18' S.P.	AC	3.7	8.1	13.3	17.8	32.0	36.5	41.8	51.2	56.1	0.5	0. 16. 32.03			32.55				12. 17. 21.64			- 2.45
	11	44 Piscium.....	AC	4.0	6.2	8.9	13.7	16.1	18.7	26.0	28.4	30.9	33.5	0. 19. 18.68			19.18	8.30	49.12		0. 20. 8.27			- 4.08
	12	12 Ceti.....	AC	43.5	45.9	48.2	53.3	55.9	58.3	5.6	8.1	10.5	13.2	0. 23. 58.29			58.82	47.94	49.12		0. 24. 47.91			- 4.12
	13	Carrington 1872 S.P.	AC	27.0	48.4	10.0	28.6	30.5	...	...	...	...	...	0. 33. 31.12			32.59				12. 34. 21.68			+ 1.75
	14	Groomb. 1913 S.P.	AC	...	...	...	...	...	52.4	57.5	6.9	12.0	17.0	0. 33. 47.16			47.69				12. 34. 36.78			- 2.05
	15	20 Ceti.....	AC	41.0	43.5	46.1	51.2	53.6	56.1	3.5	5.9	8.2	10.9	0. 46. 56.04			56.55	45.71	49.16		0. 47. 45.65			- 4.21
	16	* N.P.D. 35° 18' S.P.	AC	...	...	...	...	...	...	17.4	21.9	47.6	13.1	0. 50. 56.22			56.70				12. 51. 45.80			- 1.91
	17	Bradley 1726 S.P.	AC	...	...	...	43.6	56.3	0.7	5.0	...	...	...	0. 50. 56.31			56.79				12. 51. 45.89			- 1.91
	18	Polaris.....	AC	38.0	45.4	50.9	58.3	22.2	28.7	35.4	44.5	6.5	17.1	1. 21. 4.69			58.76	48.12	49.36		1. 21. 47.86			- 54.27
	19	β Arietis.....	WS	...	...	...	...	6.1	8.8	16.3	19.1	21.9	24.5	1. 48. 8.73			9.14	58.17	49.03	49.01	.....			
	20	δ I L.....	AC	59.1	1.9	4.6	10.1	12.9	15.8	23.9	26.5	29.4	32.1	3. 15. 15.67			16.08				3. 17. 12.16			
	21	f Tauri.....	AC	...	...	13.1	18.0	20.5	23.1	30.5	33.1	...	...	3. 24. 23.10			23.55	12.63	49.08		3. 25. 12.66			- 4.86
	22	11 Tauri.....	WS	33.1	35.6	38.3	43.9	46.3	49.4	57.4	0.1	3.0	5.5	3. 33. 49.30			49.69	38.72	49.03	49.01	.....			
	23	20 Tauri.....	AC	37.5	40.2	43.1	48.4	51.1	53.9	1.9	4.6	7.4	10.1	3. 38. 53.86			54.26				3. 39. 43.38			- 5.19
	24	η Tauri.....	AC	17.6	20.2	22.9	28.1	31.1	33.9	41.8	44.3	47.2	50.0	3. 40. 33.75			34.15	23.22	49.07		3. 41. 23.27			- 5.18
	25	Groomb. 2302 S.P.	AC	47.0	11.4	15.9	20.0	24.0	...	...	...	...	...	3. 58. 36.27			36.75				15. 59. 25.87			+ 0.27
	26	Groomb. 2433 S.P.	AC	...	...	...	...	...	...	4.0	6.3	9.1	11.3	5. 14. 22.58			23.12				17. 15. 12.25			+ 1.65
	27	δ Orionis.....	AC	...	...	...	...	...	...	4.0	6.3	9.1	11.3	5. 25. 56.63			57.14	46.06	48.92		5. 26. 46.27			- 4.56
	28	ϵ Orionis.....	AC	56.1	58.6	1.1	6.0	8.6	11.2	...	...	...	...	5. 30. 11.03			11.54	0.65	49.11		5. 31. 0.67			- 4.52
	29	Polaris S.P.....	CD	58.9	33.2	28.9	35.6	31.5	36.2	42.7	48.9	7.4	18.9	13. 20. 52.02	(- 0.73)		59.89	47.95	48.06	48.96	1. 21. 48.96			- 54.10
	30	η Boötis.....	CD	40.9	43.4	46.1	51.2	53.9	56.4	4.1	6.9	9.5	12.2	13. 48. 56.50			56.89	46.00	49.11	[+ 0.19]	13. 49. 45.96			- 2.06
	31	Arcturus.....	CD	51.6	54.2	56.9	2.1	4.8	7.5	15.2	17.9	20.5	23.2	14. 10. 7.43			7.81	56.91	49.10		14. 10. 56.88			- 1.88
	32	Arcturus... (E&E)	CD	59.4	15.4	...	47.0	...	18.3	34.1	...	...	...	14. 10. 7.32			7.70	56.91	49.21		.....			
	33	α Coronæ.....	CD	...	15.0	18.0	23.4	26.1	29.1	37.1	40.0	42.8	...	15. 29. 28.99			29.33	18.45	49.12		15. 30. 18.41			- 1.42
Nov. 20	34	$\odot$ I L.....	CD	37.9	...	43.1	48.2	51.1	53.7	1.5	4.1	...	9.5	15. 43. 53.68			54.29				15. 45. 52.51			
	35	λ Ursæ Minoris...	CD	39.5	21.5	39.9	16.6	32.9	8.2	22.0	31.2	54.8	15.5	19. 24. 13.60			4.75				19. 24. 53.86			+ 129.29
	36	θ Aquilæ.....	CD	...	...	...	...	...	...	16.7	19.1	21.8	24.2	20. 5. 9.40			9.89	58.99	49.10		20. 5. 59.01			- 2.71
	37	ζ Cygni.....	CD	26.2	29.1	32.0	37.6	40.4	43.4	51.8	54.7	57.5	0.5	21. 7. 43.36			43.68	32.78	49.10		21. 8. 32.81			- 2.21
	38	Groombridge 3548	CD	42.5	49.4	56.8	16.0	25.3	34.1	50.6	58.9	7.8	26.9	21. 19. 12.77			10.35				21. 19. 59.48			+ 22.37
	39	Piazzi XXI. 360...	CD	...	...	...	...	...	...	11.3	16.5	22.2	28.0	21. 52. 55.05			55.10				21. 53. 44.23			- 0.95
	40	α Aquarii.....	CD	25.5	27.9	30.4	35.3	37.6	40.1	47.5	50.1	52.5	55.1	21. 59. 40.24			40.73	29.82	49.09		22. 0. 29.86			- 3.33
	41	α Aquarii... (E&E)	CD	35.6	50.4	...	20.1	...	49.6	4.6	...	...	...	21. 59. 40.07			40.56	29.82	49.26		.....			
	42	ϵ Pegasi.....	CD	7.1	9.9	12.7	18.0	20.6	23.5	31.6	34.4	37.0	39.9	22. 1. 23.51			23.87	12.93	49.06		22. 2. 13.00			- 2.83
	43	Bradley 2934.....	CD	...	...	...	...	...	...	47.1	55.2	3.1	11.3	22. 7. 24.18			24.05				22. 8. 13.19			- 0.18
	44	γ Aquarii.....	CD	16.0	18.5	21.0	26.0	28.4	30.9	38.1	40.9	43.2	45.8	22. 15. 30.92			31.42	20.46	49.04		22. 16. 20.56			- 3.44
	45	γ Aquarii... (E&E)	CD	26.3	41.1	...	...	...	40.4	55.2	...	...	...	22. 15. 30.75			31.25	20.46	49.21		.....			
	46	Carrington 3686..	CD	34.9	52.0	10.1	43.9	1.5	20.1	10.8	29.1	47.5	3.6	23. 52. 19.61			18.81				23. 53. 7.96			- 4.18
	47	Polaris.....	CD	11.6	18.5	25.8	42.9	50.4	58.1	16.8	22.9	29.7	50.5	1. 21. 8.45			1.25	47.77	46.52	49.15	1. 21. 50.41			- 53.92
	48	η Arietis.....	CD	22.6	25.1	27.9	32.9	35.3	38.0	45.5	48.1	50.6	53.2	2. 6. 37.96			38.37				2. 7. 27.54			- 4.63
	49	Groomb. 2102 S.P.	CD	13.6	18.0	22.7	26.9	39.5	44.0	48.5	57.1	1.3	5.8	2. 14. 39.67			40.19				14. 15. 29.36			- 0.62
	50	Lalande F. 382-3	CD	51.1	12.0	32.2	13.5	35.9	56.0	...	...	...	...	2. 30. 53.45			51.05				2. 31. 40.22			- 32.97
	51	Piazzi XIV. 202 S.P.	CD	42.1	46.8	50.9	55.3	7.9	12.4	16.5	25.1	29.5	33.7	2. 45. 7.96			8.46				14. 45. 57.63			- 0.28
	52	α Ceti.....	CD	...	...	55.6	0.5	2.8	5.5	12.8	15.2	17.7	20.2	2. 56. 5.43			5.90	55.16	49.26		2. 56. 55.07			- 4.66
	53	W. B. III. 1120...	CD	30.1	32.6	35.1	40.3	42.8	45.4	52.9	55.4	58.1	0.5	3. 58. 45.36			45.9							

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 32, 41, and 45, — 99^s.56 : — 100^s.03 : and — 100^s.05.
Corrections for passage of Semidiameter, Nos. 20 and 34, + 66^s.96 and + 69^s.14.

8, 10, 13, 14, 46. Observed in dark field with wires illuminated.

MOON at DATE	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m							s	[Azimuth].	
																								°	'
Nov. 20	1	Piazzi III. 242 ...	CD	...	...	...	...	...	4.0	7.1	10.2	13.5	3. 59. 54.72	+ 2.41	55.00			49.15	4. 0. 44.18	- 5.83					
	2	22 L.	CD	...	...	6.5	12.0	15.0	17.5	26.0	28.9	...	...	4. 11. 17.70	(- 0.73)	18.05			[+ 0.19]	4. 10. 58.38					
	3	Groombridge 825	CD	...	38.2	46.0	0.6	8.0	15.3	36.6	44.0	51.2	...	4. 19. 15.13	[+ 6.87]	15.03				4. 20. 4.21	- 10.36				
	4	A Draconis S.P. ...	CD	...	...	...	...	...	17.9	24.8	...	45.1	52.1	59.1	4. 27. 17.71		18.43			16. 28. 7.62	+ 3.40				
	5	Groomb. 2402 S.P.	CD	47.9	55.3	2.9	10.7	32.1	40.2	47.8	2.1	9.9	17.2	4. 54. 32.50		33.26				16. 55. 22.45	+ 4.21				
	6	ε Leporis	CD	1.8	4.4	7.1	12.3	14.9	18.0	25.5	28.5	31.2	33.9	5. 0. 17.80		18.43	7.66	49.23		5. 1. 7.62	- 4.20				
	7	Oeltz. Arg. (N.) 5680	CD	27.2	32.5	38.0	48.5	54.0	59.4	15.1	20.6	25.9	31.5	5. 9. 59.35		59.40				5. 10. 48.59	- 8.66				
	8	Neptune	CD	25.5	28.0	30.7	36.0	38.6	41.1	49.1	51.9	54.4	57.1	5. 13. 41.28		41.65				5. 14. 30.84					
	9	Piazzi XVII. 139 S.P.	CD	11.6	16.5	21.4	26.1	40.1	45.3	50.0	59.2	4.0	8.7	5. 23. 40.22		40.76				17. 24. 29.95	+ 1.33				
	10	Piazzi V. 136.	CD	23.1	25.9	28.5	34.1	37.0	39.9	48.0	50.8	53.7	56.5	5. 28. 39.79		40.13				5. 29. 29.32	- 5.46				
	11	α Columbae	CD	49.0	51.9	55.0	1.0	4.1	7.3	15.6	18.9	21.9	25.1	5. 35. 7.02		7.76	56.91	49.15		5. 35. 56.95	- 3.87				
	12	Mars 1 L.	CD	59.6	...	4.9	...	...	...	15.9	...	26.7	...	32.1	5. 45. 15.83										
	13	Mars 2 L.	CD	...	3.3	...	11.5	14.2	...	...	...	30.6	...	...	5. 45. 17.00		16.77				5. 46. 5.97				
	14	Radcliffe 1604 ...	CD	13.3	16.5	20.1	27.1	30.5	34.3	44.3	48.1	51.7	55.3	5. 52. 34.17		34.40					5. 53. 23.60 - 6.47				
	15	Lalande 33419 S.P.	CD	...	...	...	...	2.0	14.9	26.6	51.1	3.4	16.1	5. 55. 2.29		3.39					17. 55. 52.59 + 9.51				
	16	Groombridge 1101	CD	34.1	37.7	41.1	48.1	51.6	55.3	5.5	9.1	12.5	16.3	6. 3. 55.18		55.41					6. 4. 44.61 - 6.44				
	17	γ Geminorum ...	CD	...	...	...	46.1	48.9	51.5	59.6	2.1	4.9	7.6	6. 7. 51.57		51.93	41.16	49.23			6. 8. 41.13 - 5.19				
	18	Groomb. 2541 S.P.	CD	32.7	36.7	40.8	45.1	57.6	1.7	5.6	14.0	18.0	22.1	6. 12. 57.37		57.86					18. 13. 47.06 + 0.53				
	19	β Canis Majoris..	CD	5.7	8.3	11.1	16.0	18.8	21.4	29.1	31.6	34.1	36.9	6. 17. 21.34		21.94	11.17	49.23			6. 18. 11.14 - 4.04				
	20	6 Cancri.	WB	6.1	9.0	11.9	17.4	20.2	23.1	31.4	34.2	37.1	40.0	7. 56. 23.08	(- 0.08)	23.46	12.79	49.33	49.26	.....					
	21	ρ Argus	WB	4.1	6.7	9.4	14.6	17.4	20.1	28.2	31.0	33.9	36.6	8. 2. 20.24		20.90	10.29	49.39		.....					
	22	W. B. (2) VIII. 23	WB	54.9	58.2	1.5	8.4	11.6	15.3	25.2	28.7	32.0	35.5	8. 5. 15.18		15.48					8. 6. 4.80 - 5.65				
	23	δ Cancri	WB	23.6	26.1	28.8	34.0	36.8	39.3	47.1	49.4	52.1	54.9	8. 16. 39.25		39.68	28.99	49.31		.....					
	24	Lacaille 3406 ...	WB	0.7	3.5	6.1	11.6	14.5	17.3	25.5	28.2	30.9	34.1	8. 30. 17.28		17.96					8. 31. 7.29 - 3.24				
	25	Groombridge 1466	WB	46.1	49.4	53.2	0.2	3.6	7.8	17.8	21.3	25.0	28.5	8. 33. 7.34		7.63					8. 33. 56.96 - 5.52				
	26	Groombridge 1468	WB	...	37.4	40.9	47.8	51.2	54.9	5.3	8.6	12.2	...	8. 33. 54.86		55.15					8. 34. 44.48 - 5.51				
	27	Lacaille 3503.	WB	16.1	18.9	21.6	27.0	29.7	32.4	40.6	43.3	46.0	48.8	8. 40. 32.48		33.15					8. 41. 22.48 - 3.23				
	28	Lalande 17835 ...	WB	38.1	40.7	43.1	48.1	50.5	53.0	0.3	2.9	5.3	7.9	8. 55. 53.03		53.55					8. 56. 42.88 - 3.74				
	29	W. B. (2) VIII. 1371-2	WB	39.6	42.7	46.0	52.2	55.3	58.8	8.0	11.3	14.1	17.7	8. 57. 58.62		58.95					8. 58. 48.28 - 4.93				
	30	Piazzi VIII. 243. ..	WB	...	...	...	24.0	27.0	30.1	39.6	42.8	46.0	49.2	8. 58. 30.23		30.56					8. 59. 19.89 - 4.93				
	31	B. D. + 15° No. 2050	WB	28.0	30.2	32.9	38.0	40.4	43.1	50.4	53.4	56.0	58.5	9. 20. 43.13		43.58					9. 21. 32.91 - 3.97				
	32	Oeltz. Arg. (N.) 9921	WB	53.9	...	...	8.4	22.9	30.0	...	59.1	6.7	...	9. 22. 37.56		37.58					9. 23. 26.91 - 7.61				
	33	Groomb. 3492 S.P.	WB	...	...	23.5	28.5	41.5	46.3	50.8	0.2	...	...	9. 27. 41.71		42.20					21. 28. 31.53 - 1.02				
	34	W. B. IX. 744.	WB	57.5	59.9	2.3	7.1	9.6	12.6	19.6	21.9	24.7	27.1	9. 35. 12.27		12.78					9. 36. 2.12 - 3.54				
	35	Lacaille 4056.	WB	14.9	17.4	20.2	25.9	28.6	31.3	39.6	42.4	45.1	48.0	9. 47. 31.38		32.06					9. 48. 21.40 - 2.87				
	36	Lacaille 4058.	WB	...	...	...	...	...	...	45.6	48.4	50.9	54.0	9. 48. 37.28		37.96					9. 49. 27.30 - 2.85				
	37	B. D. - 0° No. 2282	WB	53.3	55.6	58.1	3.0	5.4	8.1	15.1	17.9	20.4	22.9	9. 56. 8.02		8.54					9. 56. 57.88 - 3.38				
	38	Regulus.	WB	48.7	51.1	53.8	58.8	1.4	3.9	11.4	13.9	16.5	19.1	10. 2. 3.90		4.36	53.60	49.24		.....					
	39	λ Cephei S.P. ...	WB	42.0	46.7	51.2	56.2	10.6	15.3	20.1	29.8	34.4	39.2	10. 7. 10.48		10.99					22. 8. 0.33 - 1.58				
	40	ε Cephei S.P.	WB	57.6	2.0	6.8	11.1	24.4	29.1	33.3	42.2	47.0	51.4	10. 10. 24.42		24.91					22. 11. 14.25 - 1.83				
	41	γ Leonis	WB	12.5	15.1	17.9	22.9	25.5	28.2	36.0	38.8	41.4	44.0	10. 13. 28.27		28.69	18.05	49.36		.....					
	42	Piazzi XXII. 92 S.P.	WB	58.9	3.1	7.5	12.0	25.0	29.4	33.7	42.2	46.9	50.9	10. 18. 24.89		25.38					22. 19. 14.72 - 1.99				
	43	30 Sextantis	WB	56.9	59.5	1.9	6.8	9.3	11.9	19.1	21.6	24.0	26.6	10. 24. 11.80		12.32					10. 25. 1.66 - 3.23				
	44	Groomb. 3819 S.P.	WB	49.1	53.3	57.5	1.3	14.0	18.2	22.7	30.4	34.7	38.9	10. 29. 13.95		14.42					22. 30. 3.76 - 2.26				
	45	Jupiter 1 L.	WB	35.3	...	40.4	...	...	50.4	...	0.4	...	5.4	10. 40. 50.38							10. 41. 41.38				
	46	Jupiter 2 L.	WB	37.6	...	42.8	...	...	52.8	...	2.6	...	7.9	10. 40. 52.76											
	47	Polaris S.P.	H	10.1	17.0	27.9	49.0	57.5	5.1	23.6	30.5	36.2	56.0	13. 20. 54.93		1.26	47.58	46.32	48.97	1. 21. 50.24	- 53.73				
	48	Arcturus	H	51.6	54.2	56.9	...	...	7.5	...	17.9	20.5	23.2	14. 10. 7.42		7.84	56.93	49.09		.....					
Nov. 21	49	Venus 1 L.	H	21.0	23.8	26.5	32.0	34.6	37.6	45.6	48.4	51.1	54.0	18. 17. 37.50		38.17					18. 18. 27.81				
	50	α Lyrae	H	...	20.5	23.8	30.0	33.1	36.3	45.8	48.9	52.1	...	18. 32. 36.36		36.69	25.80	49.11		.....					
Nov. 22	51	5 Orionis	B	...	...	2.2	7.1	9.6	12.0	19.3	21.9	...	...	4. 47. 12.07	(- 1.04)	12.52			49.62	4. 48. 2.18	- 4.74				
	52	π Orionis	B	49.7	52.1	54.6	59.6	2.0	4.6	12.0	14.3	16.9	19.4	4. 48. 4.56	[+ 6.78]	5.01			[+ 0.19]	4. 48. 54.67	- 4.73				

Corrections for passage of Semidiameter, Nos. 2 and 49, — 68".86 and + 0".53.

2. Very tremulous. Correction to R.A. on true meridian, + 0".01.

12. A correction of — 0".03, for defect of illumination, has been applied in forming the concluded transit.

31, 34, 37, 51. Observed in dark field with wires illuminated.

45. A correction of — 0".02, for defect of illumination, has been applied in forming the concluded transit.

47. Observed over wire Q with the transit-micrometer set to readings 36".311, 36".248, 36".152, 35".980, 35".909, 35".869, 35".672, 35".610, 35".550, 35".390.

6. Very diffused.

36. Very faint.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
1899	Nov. 22	1	Piazzi IV. 204 ...	B	...	...	...	...	38.1	4.1	12.9	22.0	31.1	4. 50. 38.34	+ 2.41	38.08			49.62	4. 51. 27.74	- 12.32	
		2	11 Camelopardi...	B	55.8	0.5	5.5	...	...	...	...	43.1	48.2	52.9	4. 56. 24.38	(- 1.04)	24.45			[+ 0.19]	4. 57. 14.11	- 8.02
		3	12 Camelopardi...	B	...	...	...	18.0	22.8	27.5	41.5	...	...	...	4. 56. 27.55	[+ 6.78]	27.62				4. 57. 17.28	- 8.03
		4	β Tauri	B	41.8	44.5	47.4	52.9	55.8	58.7	6.9	9.6	12.4	15.5	5. 18. 58.59		58.90	48.57	49.67	.....		
		5	Mars 1 L.	B	31.7	34.2	36.9	42.4	45.1	48.0	56.0	58.8	1.4	4.4	5. 42. 47.90		48.84			5. 43. 38.51		
		6	Mars 2 L.	B	32.8	35.5	38.1	43.8	46.4	49.1	57.2	59.9	2.5	5.5	5. 42. 49.12							
		7	α Orionis	B	32.1	34.7	37.1	42.1	44.8	47.2	54.4	57.1	59.6	2.0	5. 48. 47.15		47.58	37.23	49.65	.....		
		8	β Aurigæ	B	49.6	53.0	56.8	3.5	7.0	10.6	21.0	24.2	27.9	31.6	5. 51. 10.57		10.77			5. 52. 0.44	- 6.51	
		9	θ Aurigæ	B	...	...	...	...	...	54.0	3.0	6.0	9.0	12.3	5. 51. 53.76		54.01			5. 52. 43.68	- 5.98	
		10	δ 2 L. ...	B	...	4.1	6.9	12.9	15.6	18.5	26.9	29.8	32.6	...	6. 5. 18.46		18.78			6. 4. 57.77		
	Nov. 23	11	49 Aurigæ	R	37.5	40.2	43.1	48.8	51.5	54.1	2.6	5.4	8.1	11.1	6. 27. 54.28	+ 2.78	54.70			49.67	6. 28. 44.42	- 5.45
		12	ε Geminorum ...	R	30.8	33.4	36.4	41.8	44.5	47.4	55.1	58.0	0.8	3.6	6. 36. 47.22	(+ 0.11)	47.66			[+ 0.19]	6. 37. 37.38	- 5.30
		13	ξ Geminorum ...	R	26.5	29.0	31.7	36.6	39.1	41.8	49.2	51.9	54.5	57.1	6. 38. 41.78		42.27	31.93	49.66	.....		
		14	θ Canis Majoris...	R	20.0	22.7	25.1	30.2	32.6	35.2	42.6	44.9	...	...	6. 48. 35.17		35.77	25.54	49.77	.....		
	Nov. 26	15	ε Orionis	C	54.9	57.4	0.0	4.8	7.3	9.6	17.1	19.6	22.1	24.3	5. 30. 9.75	[+ 6.69]	10.29	0.79	50.50	50.42	.....	
		16	Groombridge 1033	C	13.4	17.8	...	...	35.1	39.3	52.2	56.6	1.4	...	5. 47. 39.49		39.78			[+ 0.21]	5. 48. 30.25	- 7.81
		17	ι Geminorum ...	C	46.1	48.6	51.5	56.9	59.6	2.1	10.1	12.9	15.5	18.4	5. 57. 2.21		2.65	53.24	50.59	.....		
		18	ν Orionis	C	6.0	21.5	36.9	39.4	42.0	...	...	...	...	...	6. 0. 52.15		52.62	43.05	50.43	.....		
		19	δ Ursæ Min. S.P..	C	51.9	22.1	33.1	13.1	24.0	32.1	12.9	20.5	27.6	37.1	6. 4. 15.44		17.24	8.13	50.89	18. 5. 7.71	+ 42.52	
		20	μ Geminorum ...	C	...	41.1	44.0	49.3	51.8	54.7	2.7	4.9	7.9	...	6. 15. 54.60		55.04	45.41	50.37	.....		
		21	Groombridge 1155	C	53.0	56.7	1.0	8.9	13.2	17.3	29.1	33.3	37.2	41.7	6. 18. 17.20		17.50			6. 19. 7.98	- 7.34	
		22	42 Draconis S.P..	C	11.4	18.0	24.0	29.9	...	...	...	18.0	23.5	...	6. 24. 47.63		48.12			18. 25. 38.60	+ 2.74	
		23	γ Geminorum ...	C	40.9	43.5	46.0	51.2	53.9	56.2	4.1	6.5	9.1	11.9	6. 30. 56.37		56.83	47.26	50.43	.....		
		24	Lalande F. (2) 29	C	...	...	34.6	11.4	31.0	48.9	44.8	5.5	...	...	6. 35. 49.75		49.46			6. 36. 39.94	- 24.07	
		25	Carrington 972 ...	C	...	...	26.8	1.6	19.1	38.0	29.0	49.1	...	...	6. 44. 37.62		37.38			6. 45. 27.86	- 22.37	
		26	Carrington 2865 S.P..	C	47.5	6.1	25.2	44.1	...	56.0	14.0	47.9	...	...	6. 52. 36.76		37.72			18. 53. 28.20	+ 15.66	
		27	Lalande F. 3177 S.P..	C	...	30.9	53.4	...	24.0	47.8	...	18.9	41.2	7. 3. 24.30		25.43			19. 4. 15.91	+ 20.34		
		28	W. B. (2) VII. 327	C	9.0	11.5	14.2	19.7	22.1	25.1	33.0	35.4	38.1	41.1	7. 12. 24.96		25.40			7. 13. 15.88	- 5.13	
		29	δ Geminorum ...	C	52.9	55.5	58.0	3.6	6.1	9.0	16.8	19.4	22.1	24.9	7. 13. 8.87		9.31	59.82	50.51	.....		
		30	α Hydræ	AC	...	...	...	...	...	48.3	50.9	53.4	56.0	10.9	9. 21. 41.01		41.59	32.18	50.59	50.43	9. 22. 32.10	- 3.61
		31	ξ Leonis	AC	18.2	20.9	23.5	28.2	30.9	33.5	41.0	...	46.1	...	9. 25. 33.48		33.97	24.42	50.45		9. 26. 24.48	- 4.04
		32	ο Leonis	AC	...	...	...	44.0	46.3	49.0	56.2	58.9	1.5	3.9	9. 34. 48.93		49.43	39.92	50.49		9. 35. 39.94	- 3.94
		33	ε Leonis	AC	54.0	56.6	59.4	...	...	...	21.0	23.9	26.5	...	9. 39. 10.26		10.69	1.16	50.47		9. 40. 1.20	- 4.27
		34	δ 2 L.	AC	55.4	57.9	...	...	...	...	...	24.0	26.4	...	9. 46. 10.95		11.44			9. 45. 54.99		
		35	ε Ursæ Majoris ...	W	...	...	20.9	29.7	34.0	38.8	51.0	56.4	...	...	12. 48. 38.72		39.00			50.39	12. 49. 29.50	- 2.19
		36	ε Virginis	W	56.4	58.9	1.4	6.4	9.0	11.7	19.0	21.6	24.1	26.6	12. 56. 11.55		12.04	2.56	50.52		12. 57. 2.54	- 2.58
		37	α Comæ	W	51.8	54.1	56.8	...	...	7.2	...	17.5	20.1	22.8	13. 4. 7.21		7.68				13. 4. 58.18	- 2.49
		38	Spica	W	...	...	...	49.1	51.6	54.1	1.6	4.1	6.7	9.3	13. 18. 54.17		54.76	45.27	50.51		13. 19. 45.27	- 2.50
		39	Polaris S.P.	W	15.1	26.0	37.6	47.1	58.4	40.1	52.0	2.1	13.8	25.0	13. 20. 49.72		54.07				1. 21. 44.58	- 50.38
		40	γ Ursæ Majoris...	W	...	...	...	...	...	32.0	36.1	40.6	6.6	13. 20. 14.50		14.78			.....	13. 21. 5.29	- 1.66	
		41	η Ursæ Majoris...	W	...	18.0	22.0	29.6	33.2	37.3	...	...	...	...	13. 42. 37.25		37.57				13. 43. 28.08	- 1.55
		42	η Boötis	W	...	42.0	44.8	49.9	52.4	55.2	2.9	5.6	8.2	...	13. 48. 55.18		55.64	46.16	50.52		13. 49. 46.15	- 2.22
		43	α Draconis	W	8.9	14.5	20.4	32.0	37.9	43.8	0.9	6.7	12.6	18.6	14. 0. 43.72		43.94				14. 1. 34.45	- 0.08
		44	Arcturus	W	50.2	52.9	55.5	0.8	3.4	6.0	13.9	16.4	19.1	21.9	14. 10. 6.05		6.51	57.04	50.53		14. 10. 57.02	- 2.01
		45	ε Boötis	W	4.0	...	...	...	34.5	37.4	45.6	...	...	10.8	14. 39. 37.41		37.83				14. 40. 28.35	- 1.73
		46	ε Boötis	W	20.7	23.4	26.2	...	...	...	48.4	51.3	54.0	14. 39. 37.36		37.78	28.40	50.62	.....	14. 40. 28.30	- 1.73	
		47	β Ursæ Minoris...	W	10.1	19.6	28.9	46.9	56.4	5.7	33.4	42.9	52.2	1.9	14. 50. 5.94		6.01				14. 50. 56.53	+ 3.67
		48	β Boötis	W	...	...	...	...	...	24.9	28.0	31.5	50.9	10.5	14. 57. 11.89		12.25				14. 58. 2.77	- 1.15
		49	ι Draconis	W	...	...	...	...	...	59.8	4.8	9.5	14.5	43.3	15. 21. 45.48		45.73				15. 22. 36.25	+ 0.56
		50	α Coronæ	W	10.9	13.6	16.4	...	...	27.6	...	38.5	41.5	44.2	15. 29. 27.56		27.99	18.53	50.54		15. 30. 18.52	- 1.50

Corrections for passage of Semidiameter, Nos. 10 and 34, — 70".69 and — 66".99.

1, 3. Observed in dark field with wires illuminated.

5. A correction of — 0".03, for defect of illumination, has been applied in forming the concluded transit.

11, 12, 14. Faint; cloudy.

19. Observed over wire O with the transit-micrometer set to readings 35".010, 34".267, 34".018, 33".040, 32".770, 32".595, 31".630, 31".428, 31".248, 31".052.

30, 32. Faint.

34. Cloudy at times. Correction to R.A. on true meridian, + 0".02.

39. Very unsteady. Observed over wire T with the transit-micrometer set to readings 38".000, 37".900, 37".800, 37".700, 37".600, 33".600, 33".500, 33".400, 33".300, 33".200.

40. Observed over wires V, W, X and Y.

48. Faint. Observed over wires V, W, X, Y and Z.

5, 6, 7, 8, 9. Foggy.

10. Correction to R.A. on true meridian, + 0".01.

18. Observed over wires M, N, O, P and Q.

30, 49. Observed over wires U, V, W, X and Y.

45. Observed over wires N, S, T, U and Y.

MO.	D.	H.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Apparent Slow.	Adopted Clock Slow at 0° Sidereal and [Lossing Rate].	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896-0.
						I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).								
						s	s	s	s	s	s	s	s	s	s		"	"					h	m	s	
Nov. 27	1			ζ Herculis	AC	14.4	17.4	20.1	26.1	29.0	32.0	40.4	43.5	46.2	49.2	16. 36. 31.87	+ 2.78		32.28	22.93	50.65	50.43	16. 37. 22.86			- 1.03
	2			ε Herculis	W	11.5	...	17.1	22.9	25.8	28.8	37.1	40.0	...	46.0	16. 55. 28.69	(+ 0.11)		29.10	19.63	50.53	50.39	16. 56. 19.64			- 1.06
	3			δ Herculis	W	39.6	...	45.0	50.5	53.1	55.9	4.0	6.7	...	12.2	17. 9. 55.92	[+ 6.69]		56.35				17. 10. 46.89			- 1.31
	4			α Ophiuchi	W	...	...	...	...	...	17.1	24.6	27.1	29.9	32.2	17. 29. 17.12			17.61	8.12	50.51		17. 30. 8.15			- 1.77
	5			ι Herculis	W	19.4	22.9	26.6	33.5	37.1	40.9	51.4	54.9	58.4	2.2	17. 35. 40.78			41.12				17. 36. 31.66			- 0.07
	6			μ Herculis	W	16.9	19.4	22.1	28.0	30.6	33.5	41.6	44.4	47.4	50.2	17. 41. 33.45			33.87	24.42	50.55		17. 42. 24.41			- 1.18
	7			ξ Draconis	W	24.7	29.1	33.8	42.7	47.1	51.9	5.4	9.9	14.2	18.9	17. 50. 51.84			52.11				17. 51. 42.66			+ 1.13
	8			ξ Herculis	W	36.5	39.2	42.1	48.0	50.7	53.6	...	...	...	...	17. 52. 53.54			53.95				17. 53. 44.50			- 1.15
	9			δ Ursæ Minoris ...	W	0.1	4.2	8.9	14.0	18.0	26.1	30.0	34.0	38.9	43.4	18. 4. 18.13			17.03	8.01	50.98		18. 5. 7.58			+ 42.64
	10			α Lyræ	W	...	18.9	22.1	28.4	31.5	34.8	44.0	47.0	50.4	...	18. 32. 34.69			35.07	25.74	50.67		18. 33. 25.62			- 0.73
	11			ε Lyræ (1st Star) ...	W	...	...	...	...	...	16.1	19.2	22.5	41.7	...	18. 40. 3.35			3.72				18. 40. 54.27			- 0.67
	12			Venus 1 L.	W	39.6	42.2	45.1	50.5	53.1	56.0	4.2	6.8	9.5	12.4	18. 49. 55.98			57.06				18. 50. 47.61			
	13			Venus 2 L.	W	40.1	42.8	45.6	51.1	53.8	56.8	4.8	7.4	10.1	12.9	18. 49. 56.77										
	14			Cephei 51 S.P.	W	4.1	9.6	14.0	18.6	23.8	29.1	34.5	5.1	10.1	15.1	18. 51. 51.58			53.70				6. 52. 44.26			- 57.62
	15			ζ Aquilæ	W	33.5	35.9	38.5	...	...	48.7	...	58.6	1.4	4.0	18. 59. 48.69			49.17	39.69	50.52		19. 0. 39.73			- 1.93
	16			γ Tauri	W	51.0	53.7	56.1	1.1	3.9	6.4	14.0	16.5	19.1	21.9	4. 13. 6.41			6.88	57.50	50.62	50.60	4. 13. 57.52			- 5.12
	17			Aldebaran	W	56.0	...	0.9	6.0	8.5	11.2	18.9	21.4	...	26.7	4. 29. 11.24			11.71	2.25	50.54		4. 30. 2.35			- 5.16
	18			54 Eridani	W	51.2	...	56.0	1.3	4.0	6.7	14.2	16.9	...	22.2	4. 35. 6.60			7.25				4. 35. 57.89			- 4.40
	19			Lalande 9284	W	36.1	38.5	41.1	46.1	48.9	51.6	59.1	1.6	4.2	6.9	4. 49. 51.45			52.07				4. 50. 42.71			- 4.43
	20			Lalande F. 693 ...	W	39.5	45.9	52.5	57.8	24.1	38.0	44.9	59.8	13.7	20.0	4. 54. 45.62			44.80				4. 55. 35.44			- 39.60
	21			Groombridge 2419 S.P.	W	...	...	...	...	6.0	...	30.7	...	5.1	16.4	5. 0. 6.43			7.16				17. 0. 57.80			+ 9.05
	22			Groombridge 924 ...	W	...	39.1	49.0	6.9	16.0	25.7	52.6	1.6	11.4	...	5. 3. 25.47			25.55				5. 4. 16.19			- 13.14
	23			Lalande F. 708 ...	W	1.1	8.0	14.0	28.0	33.2	40.5	...	...	...	...	5. 8. 20.80			20.06				5. 9. 10.70			- 38.15
Nov. 28	24			θ Capricorni	HA	2.1	4.9	7.5	12.8	15.3	18.0	25.5	28.1	30.8	33.4	20. 59. 17.88	[+ 6.22]		18.47	9.36	50.89	50.55	.....			
	25			ζ Cygni	HA	24.3	27.2	30.0	35.8	...	...	...	...	...	...	21. 7. 41.44			41.84	32.66	50.82	[+ 0.26]	.....			
	26			α Equulei	HA	...	...	...	...	...	59.0	1.4	3.9	18.8	33.9	21. 9. 49.16			49.66	40.30	50.64		.....			
	27			ν Piscium	HA	59.1	1.7	4.1	9.1	11.5	14.1	21.4	23.9	26.5	29.0	1. 35. 14.08			14.58	5.43	50.85	50.81	.....			
	28			ο Piscium	HA	...	...	...	2.1	4.6	7.1	14.6	...	...	...	1. 39. 7.15			7.63	58.43	50.80		.....			
	29			Groombridge 2240 S.P.	HA	58.0	2.8	6.9	11.4	24.1	28.8	33.0	42.0	46.0	50.5	3. 25. 24.28			24.65				15. 26. 15.50			+ 0.15
	30			Groombridge 2267 S.P.	HA	31.4	36.3	40.3	45.5	59.8	4.8	9.1	18.3	23.2	28.0	3. 35. 59.60			59.99				15. 36. 50.84			+ 0.59
	31			Lalande F. 2731-2 S.P.	HA	57.1	11.6	25.3	40.1	55.7	10.6	25.5	39.1	54.2	...	3. 41. 55.47			56.58				15. 42. 47.43			+ 23.76
	32			Carrington 2405 S.P.	HA	...	53.6	13.1	29.0	19.3	37.9	55.5	28.5	45.4	...	3. 54. 19.95			20.72				15. 55. 11.57			+ 13.12
	33			Piazzini III. 242 ...	HA	34.4	...	40.6	46.8	50.0	53.1	2.1	5.7	...	12.0	3. 59. 53.13			53.50				4. 0. 44.35			- 5.94
	34			Oeltz Arg. (N.) 4558-9	HA	...	...	...	44.0	47.4	51.3	2.6	...	10.5	14.1	4. 4. 51.32			51.64				4. 5. 42.49			- 6.82
	35			Carrington 2447 S.P.	D	33.2	51.1	9.1	25.0	...	36.1	54.9	29.0	46.5	4.9	4. 11. 18.57			19.35				16. 12. 10.21			+ 14.22
	36			Groombridge 2330 S.P.	D	...	...	...	14.5	25.8	29.7	33.4	40.9	44.8	48.6	4. 15. 25.80			26.13				16. 16. 16.99			- 0.03
	37			Groombridge 2363 S.P.	HA	38.9	52.1	5.8	19.0	56.9	11.5	24.1	49.5	2.5	16.0	4. 24. 56.43			57.07				16. 25. 47.93			+ 9.93
	38			Carrington 2498 S.P.	HA	5.4	20.5	29.5	40.8	51.1	1.0	...	...	...	...	4. 29. 35.37			36.41				16. 30. 27.27			+ 24.71
	39			B. D. + 7° No. 700	HA	55.0	57.4	59.8	4.3	7.5	10.1	17.6	20.1	22.5	25.2	4. 37. 9.99			10.48				4. 38. 1.34			- 4.96
	40			Piazzini IV. 204 ...	HA	44.1	52.9	1.9	19.1	27.4	36.9	2.6	11.5	20.3	29.6	4. 50. 36.76			36.89				4. 51. 27.75			- 12.57
	41			Groombridge 2406 S.P.	D	12.0	21.6	31.4	41.5	11.1	20.9	30.9	50.8	0.5	10.4	4. 55. 10.96			11.52				16. 56. 2.38			+ 7.06
	42			Groombridge 2410 S.P.	D	...	...	...	...	44.4	54.0	3.4	21.4	31.1	40.1	4. 56. 44.37			44.91				16. 57. 35.77			+ 6.44
	43			τ Leonis	H	32.2	34.9	37.4	42.1	44.5	47.3	54.5	57.1	59.2	2.2	11. 21. 47.23	(+ 0.48)		47.72	38.51	50.79	50.62	.....			
	44			δ 2 L.	H	39.5	42.0	44.5	49.6	52.0	...	...	...	...	...	11. 28. 54.66	[+ 5.74]		55.17				11. 28. 39.02			
	45			Lalande F. 4560 S.P.	H	...	...	...	...	28.0	57.2	24.3	20.0	...	15.3	11. 38. 28.65			29.27				23. 39. 20.02			- 1.13
	46			β Leonis	H	42.0	44.5	47.0	52.0	54.5	57.3	4.9	7.4	10.0	12.6	11. 42. 57.26			57.71	48.39	50.68		.....			
Nov. 29	47			⊙ 1 L.	C	...	...	55.5	0.5	3.4	6.0	14.0	16.9	19.4	22.0	16. 22. 6.09			16.90			50.89	16. 24. 7.97			
	48			⊙ 2 L.	C	...	13.3	15.9	21.2	23.9	26.6	34.3	36.9	39.6	...	16. 24. 26.51						[+ 0.26]	.....			
	49			α Ophiuchi	C	1.4	4.0	6.3	11.4	14.0	16.6	24.1	26.5	29.2	31.9	17. 29. 16.58			17.05	8.13	51.08		.....			
	50			η Aquarii	B	57.6	0.1	2.6	7.6	10.0	12.6	20.0	22.3	24.9	27.4	22. 29. 12.55			13.06	4.07	51.01	50.89	.....			
	51			Lacaille 9190	B	2.9	5.6	8.8	14.8	17.9	20.6	30.0	32.7	35.9	38.6	22. 31. 20.82			21.50				22. 32. 12.63			- 4.03

Correction for passage of Semidiameter, No. 44, — 66".91.

9. Observed over wire U with the transit-micrometer set to readings 35".100, 35".200, 35".300, 35".400, 35".500, 35".700, 35".800, 35".900, 36".000, 36".100.
 11. Observed over wires V, W, X and Y.
 13. A correction of + 0".19, for defect of illumination, has been applied in forming the concluded transit.
 14. Observed over wire Q with the transit-micrometer set to readings 35".100, 35".200, 35".300, 35".400, 35".500, 35".700, 35".800, 34".500, 34".600, 34".700.
 16, 18, 23, 25, 26, 28. Cloudy.
 17. Faint; cloudy.
 20. Observed over wire T with the transit-micrometer set to readings 33".600, 33".800, 34".000, 34".200, 35".000, 35".400, 35".600, 37".800, 38".200, 38".400.
 21. Very faint; cloudy.
 23. Observed over wire T with the transit-micrometer set to readings 35".000, 35".200, 35".400, 35".800, 36".000, 36".200.
 24. Trem

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
															Collimation.							
															(Level).							
															[Azimuth].							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	h m s	"	s	s	s	h m s	s		
Nov. 29	1	ζ Pegasi	B	13 ¹	15 ⁵	18 ⁰	23 ⁰	25 ⁵	28 ¹	35 ⁵	38 ⁰	40 ⁶	43 ¹	22. 35. 28 ⁰ 8	+ 2 ⁷ 8	28 ⁵ 54	19 ⁶ 69	51 ¹ 15	50 ⁸ 89	.....		
	2	Bradley 3147	B	38 ⁶	46 ⁰	51 ¹	0 ⁷	22 ¹	29 ⁸	35 ⁸	49 ⁵	55 ¹	0 ²	23. 26. 57 ⁰ 0	(+ 0 ⁴ 8)	56 ⁸ 5	46 ² 24	49 ³ 39	[+ 0 ² 6]	23. 27. 47 ⁹ 9	+ 2 ⁸ 2	
	3	Bradley 1672 S.P.	B	48 ⁹	55 ⁸	12 ⁰	17 ⁹	20 ⁸	38 ²	44 ⁹	3 ¹	9 ⁵	18 ⁹	0. 13. 26 ¹ 8	[+ 5 ⁷ 4]	27 ⁴ 0	19 ⁵ 54	52 ¹ 14	51 ¹ 15	12. 14. 18 ⁵ 55	+ 3 ² 3	
	4	Groomb. 1878 S.P.	B	56 ⁰	0 ⁹	5 ⁶	10 ²	24 ³	29 ⁴	34 ⁰	43 ¹	48 ⁴	53 ⁰	0. 16. 24 ² 42		24 ⁷ 3				12. 17. 15 ⁸ 88	- 2 ⁸ 9	
	5	* N.P.D. 31° 18' S.P.	B	2 ²	7 ¹	12 ⁰	17 ⁰	30 ⁷	35 ⁹	40 ⁵	49 ⁸	54 ⁵	59 ⁸	0. 16. 30 ⁸ 88		31 ¹ 19				12. 17. 22 ³ 34	- 2 ⁸ 9	
	6	Groomb. 1914 S.P.	B	21 ⁶	26 ⁹	31 ⁶	36 ⁹	51 ⁵	56 ⁵	1 ⁶	11 ⁵	16 ²	21 ³	0. 34. 51 ¹ 49		51 ⁸ 0				12. 35. 42 ⁰ 6	- 2 ⁴ 6	
	7	Oeltz. Arg. (N.) 921	B	33 ⁶	37 ⁵	41 ⁶	49 ³	53 ¹	57 ²	...	...	...	...	0. 50. 57 ⁰ 06		57 ⁴ 1				0. 51. 48 ⁵ 57	- 4 ⁴ 8	
	8	Groomb. 1943 S.P.	B	...	21 ⁴	28 ¹	35 ¹	55 ⁹	3 ³	...	...	...	...	0. 51. 55 ⁸ 7		56 ² 2				12. 52. 47 ³ 38	- 1 ⁵ 7	
	9	Groomb. 1944 S.P.	B	...	...	...	...	15 ²	22 ⁰	34 ⁷	41 ³	47 ⁹	...	0. 52. 8 ⁶ 3		8 ⁹ 8				12. 53. 0 ¹ 4	- 1 ⁶ 7	
	10	Oeltz. Arg. (N.) 1043	B	55 ⁹	0 ¹	4 ⁷	14 ⁰	18 ³	23 ¹	...	...	...	...	0. 57. 23 ¹ 12		23 ⁴ 5				0. 58. 14 ⁶ 61	- 4 ⁷ 8	
	11	W. B. 0. 984	B	...	...	...	...	...	...	...	...	...	...	0. 57. 35 ³ 34		35 ⁸ 0				0. 58. 26 ⁹ 6	- 4 ² 1	
	12	β Andromedæ ...	B	49 ¹	52 ⁰	55 ²	1 ¹	4 ¹	7 ²	16 ¹	19 ²	25 ⁴	...	1. 3. 7 ¹ 19		7 ⁵ 9	58 ⁸ 4	51 ² 25	.....	.....		
	13	Polaris	B	0 ⁵	9 ⁰	16 ⁴	24 ⁰	51 ⁰	57 ⁷	5 ¹	21 ¹	27 ⁵	35 ³	1. 20. 54 ⁴ 44		53 ⁴ 9	42 ⁵ 58	49 ⁰ 9	51 ⁰ 8	1. 21. 44 ⁶ 5	- 48 ⁷ 3	
	14	W. B. VIII. 1087...	CD	28 ³	...	33 ⁶	38 ⁷	41 ¹	43 ⁶	51 ¹	53 ⁵	...	58 ⁹	8. 43. 43 ⁶ 4		44 ¹ 1				8. 44. 35 ² 8	- 4 ⁴ 2	
	15	Lalande 17454-5...	CD	5 ⁴	8 ⁰	10 ⁵	15 ⁵	18 ⁰	20 ⁵	28 ⁰	30 ⁵	33 ²	35 ⁹	8. 45. 20 ⁵ 9		21 ⁰ 6				8. 46. 12 ² 3	- 4 ⁴ 1	
	16	Lalande 17835.....	CD	36 ⁹	39 ¹	41 ⁸	46 ⁷	49 ¹	51 ⁸	58 ⁹	1 ³	3 ⁹	6 ⁴	8. 55. 51 ⁶ 3		52 ¹ 4				8. 56. 43 ³ 2	- 4 ⁰ 3	
	17	κ Cancri	CD	4 ³	6 ⁹	9 ⁵	14 ³	16 ⁹	19 ⁶	27 ⁰	29 ⁴	32 ⁰	34 ⁷	9. 1. 19 ⁵ 0		19 ⁹ 7	11 ¹ 14	51 ¹ 17		9. 2. 11 ¹ 5	- 4 ² 7	
	18	Groomb. 3401 S.P.	CD	58 ⁴	3 ²	8 ⁰	12 ⁹	27 ³	32 ⁴	37 ¹	46 ⁹	52 ⁰	56 ⁷	9. 3. 27 ⁴ 1		27 ⁷ 3				21. 4. 18 ⁹ 1	- 0 ⁰ 7	
	19	83 Cancri	CD	8 ⁰	10 ⁵	13 ⁰	18 ⁰	20 ⁷	23 ⁵	31 ⁰	33 ⁶	36 ²	39 ¹	9. 12. 23 ⁴ 0		23 ⁸ 5	15 ⁰ 1	51 ¹ 16		9. 13. 15 ⁰ 3	- 4 ⁴ 0	
	20	W. B. (2) IX. 248-9	CD	...	51 ⁶	54 ⁶	0 ⁶	3 ⁹	6 ⁹	15 ⁶	18 ⁷	21 ⁸	...	9. 14. 6 ⁷ 6		7 ¹ 6				9. 14. 58 ³ 4	- 4 ⁹ 6	
	21	Oeltz. Arg. (N.) 9921	CD	52 ⁹	59 ⁸	7 ⁴	21 ⁶	29 ⁰	36 ⁸	58 ³	5 ³	12 ⁶	20 ²	9. 22. 36 ⁵ 0		36 ⁷ 8				9. 23. 27 ⁹ 6	- 8 ³ 4	
	22	Lalande F. (2) 277 S.P.	CD	...	...	48 ²	9 ⁵	10 ⁷	32 ⁰	52 ⁹	33 ¹	...	...	9. 30. 10 ⁶ 66		11 ¹ 19				21. 31. 2 ³ 7	+ 10 ² 9	
	23	W. B. IX. 744	CD	...	58 ⁸	1 ¹	6 ⁰	8 ⁵	11 ¹	18 ³	20 ⁸	23 ⁶	...	9. 35. 11 ⁰ 8		11 ⁵ 8				9. 36. 2 ⁷ 6	- 3 ⁸ 4	
	24	Groomb. 3575 S.P.	CD	...	...	35 ⁰	39 ¹	51 ⁶	66 ⁰	0 ¹	8 ⁵	...	...	9. 43. 51 ⁶ 4		51 ⁹ 4				21. 44. 43 ¹ 3	- 1 ² 5	
	25	Groomb. 3582 S.P.	CD	36 ⁰	40 ¹	44 ⁰	48 ⁵	0 ⁹	5 ²	9 ⁷	17 ⁶	22 ¹	26 ³	9. 45. 0 ⁹ 8		1 ² 8				21. 45. 52 ⁴ 7	- 1 ² 7	
	26	π Leonis	CD	40 ¹	42 ⁷	45 ⁴	50 ¹	52 ⁷	55 ³	2 ⁸	5 ¹	7 ⁷	10 ³	9. 53. 55 ² 6		55 ⁷ 3	46 ⁹ 3	51 ² 0		9. 54. 46 ⁹ 2	- 3 ⁸ 9	
	27	B.D. - 0° No. 2282	CD	51 ⁴	54 ¹	56 ⁹	1 ⁵	4 ¹	6 ⁹	13 ⁹	16 ⁵	19 ¹	21 ⁵	9. 56. 6 ⁶ 3		7 ¹ 4				9. 56. 58 ³ 3	- 3 ⁶ 8	
	28	Oeltz. Arg. (N.) 2346 S.P.	CD	...	...	...	47 ¹	59 ⁸	4 ⁸	9 ¹	17 ⁵	22 ¹	26 ⁷	10. 3. 0 ⁰ 7		0 ³ 7				22. 3. 51 ⁵ 6	- 1 ⁴ 1	
	29	Groomb. 3693 S.P.	CD	...	...	...	...	32 ⁵	36 ⁹	45 ⁹	50 ²	54 ⁹	10. 3. 28 ¹ 1		28 ⁴ 1					22. 4. 19 ⁶ 0	- 1 ⁴ 2	
	30	Oeltz. Arg. (N.) 23923 S.P.	CD	37 ⁸	42 ¹	46 ⁵	51 ⁰	4 ⁰	8 ⁴	12 ⁹	21 ⁸	26 ⁰	30 ¹	10. 16. 3 ⁹ 9		4 ² 8				22. 16. 55 ⁴ 7	- 1 ⁶ 7	
	31	W. B. X. 425	CD	36 ⁹	39 ⁴	42 ⁰	46 ⁹	49 ⁴	52 ⁰	59 ⁵	2 ⁰	4 ⁴	7 ⁰	10. 25. 51 ⁹ 9		52 ⁴ 6				10. 26. 43 ⁶ 5	- 3 ⁷ 0	
	32	Groomb. 3828 S.P.	CD	49 ⁴	56 ⁹	4 ⁰	11 ⁰	31 ⁸	39 ²	46 ¹	59 ⁸	7 ²	14 ³	10. 29. 31 ⁸ 6		32 ² 1				22. 30. 23 ⁴ 0	- 0 ⁶ 6	
	33	Groomb. 1685	CD	16 ⁰	19 ³	22 ⁶	29 ¹	32 ²	35 ⁹	45 ⁷	48 ⁹	52 ²	55 ⁹	10. 38. 35 ⁸ 3		36 ² 1				10. 39. 27 ⁴ 1	- 4 ² 9	
	34	37 Sextantis	CD	37 ⁹	40 ¹	42 ⁶	...	...	52 ⁷	...	2 ⁵	5 ⁰	7 ⁶	10. 39. 52 ⁶ 5		53 ¹ 3				10. 40. 44 ³ 3	- 3 ⁵ 5	
	35	38 Sextantis	CD	51 ⁶	54 ⁰	56 ⁷	1 ⁵	4 ⁰	6 ⁵	13 ⁸	16 ³	18 ⁹	21 ⁵	10. 41. 6 ⁵ 2		7 ⁰ 0				10. 41. 58 ² 0	- 3 ⁵ 4	
	36	Groomb. 3967 S.P.	B	...	...	...	10 ⁰	26 ⁰	31 ⁸	37 ⁴	...	...	...	10. 57. 26 ¹ 8		26 ⁵ 0			51 ¹ 9	22. 58. 17 ⁷ 8	- 2 ⁰ 2	
	37	B.D. + 63° No. 1922 S.P.	B	...	...	...	46 ⁷	3 ⁴	8 ⁹	14 ⁵	...	...	...	10. 58. 3 ² 6		3 ⁵ 8				22. 58. 54 ⁸ 6	- 2 ⁰ 4	
	38	Lacaille 4606.....	B	51 ⁴	54 ¹	57 ⁰	2 ⁶	5 ⁵	8 ⁴	...	...	...	...	11. 2. 8 ³ 7		9 ⁰ 2				11. 3. 0 ³ 0	- 2 ⁸ 4	
	39	Lacaille 4609.....	B	...	...	...	19 ⁸	22 ⁷	25 ⁵	34 ⁰	...	...	...	11. 2. 25 ⁵ 5		26 ² 0				11. 3. 17 ⁴ 8	- 2 ⁸ 5	
	40	B.A.C. 3823	B	51 ³	54 ⁰	56 ⁹	2 ⁴	5 ¹	8 ¹	16 ⁶	19 ⁴	22 ¹	25 ¹	11. 4. 8 ¹ 4		8 ⁷ 9				11. 5. 0 ⁰ 7	- 2 ⁸ 5	
	41	δ Leonis.....	CD	30 ⁷	33 ²	36 ⁰	41 ¹	44 ⁰	46 ⁵	54 ²	57 ¹	59 ⁸	2 ⁴	11. 7. 46 ⁵ 4		46 ⁹ 8	38 ² 4	51 ² 6	51 ¹ 1	11. 8. 38 ¹ 8	- 3 ⁵ 7	
	42	Groomb. 1756	B	...	...	...	...	...	27 ¹	30 ⁵	34 ⁰	37 ⁵	11. 9. 17 ¹ 7		17 ⁵ 4				51 ¹ 9	11. 10. 8 ⁸ 2	- 3 ⁹ 1	
	43	Groomb. 1758	B	38 ⁵	42 ¹	45 ⁶	52 ⁰	55 ⁵	58 ⁹	8 ⁷	12 ⁰	15 ⁵	19 ¹	11. 9. 58 ⁸ 4		59 ² 1				11. 10. 50 ⁴ 9	- 3 ⁹ 0	
	44	δ Crateris	B	4 ²	6 ⁹	9 ⁵	14 ⁴	17 ⁰	19 ⁷	27 ³	29 ⁹	32 ²	34 ⁹	11. 13. 19 ⁶ 4		20 ² 0	11 ⁴ 5	51 ² 5		11. 14. 11 ⁴ 8	- 3 ⁰ 6	
	45	ι Leonis (1st Star)	B	...	...	...	36 ⁶	39 ²	41 ⁸	49 ³	...	...	...	11. 17. 41 ⁷ 8		42 ² 5				11. 18. 33 ⁵ 3	- 3 ³ 6	
	46	ι Leonis (2nd Star)	B	27 ¹	29 ⁴	32 ⁰	...	...	...	52 ⁰	54 ⁵	57 ¹	11. 17. 42 ⁰ 5		42 ⁵ 2					11. 18. 33 ⁸ 0	- 3 ³ 6	
	47	B.D. + 3° No. 2509	B	3 ⁶	6 ¹	8 ⁹	13 ⁷	16 ¹	18 ⁶	...	...	...	...	11. 23. 18 ⁶ 1		19 ¹ 0				11. 24. 10 ³ 9	- 3 ² 3	
	48	Groomb. 1795	B	...	...	...	...	...	34 ⁰	37 ⁵	40 ⁸	44 ¹	11. 24. 24 ² 6		24 ⁶ 4					11. 25. 15 ⁹ 3	- 3 ⁶ 9	
	49	Bradley 3147 S.P.	B	21 ¹	28 ⁹	38 ⁰	45 ⁸	55 ⁰	3 ¹	11 ¹	20 ²	29 ²	...	11. 26. 54 ⁷ 1		55 ⁵ 0	46 ⁰ 7	50 ⁵ 7		23. 27. 46 ⁷ 9	+ 2 ⁹ 9	
	50																					

2. Observed over wire T with the transit-micrometer set to readings $36^{\circ}547$, $36^{\circ}720$, $36^{\circ}856$, $37^{\circ}084$, $37^{\circ}531$, $37^{\circ}732$, $37^{\circ}871$, $38^{\circ}170$, $38^{\circ}315$, $38^{\circ}436$.
 3. Observed over wire T with the transit-micrometer set to readings $36^{\circ}798$, $36^{\circ}720$, $36^{\circ}494$, $36^{\circ}432$, $36^{\circ}286$, $36^{\circ}190$, $36^{\circ}109$, $35^{\circ}880$, $35^{\circ}788$, $35^{\circ}701$.
 13. Observed over wire O with the transit-micrometer set to readings $32^{\circ}760$, $32^{\circ}831$, $32^{\circ}902$, $32^{\circ}963$, $33^{\circ}196$, $33^{\circ}245$, $33^{\circ}320$, $33^{\circ}445$, $33^{\circ}510$, $33^{\circ}580$.
 27, 47. Observed in dark field with wires illuminated.
 49. Observed over wire T with the transit-micrometer set to readings $36^{\circ}400$, $36^{\circ}200$, $36^{\circ}000$, $35^{\circ}800$, $35^{\circ}600$, $35^{\circ}400$, $35^{\circ}200$, $35^{\circ}000$, $34^{\circ}800$.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock Appa- rently Slow.	Adopted Clock Slow at Sidereal and (losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	"	s	s	s	s	h m s	s					
Nov. 29	1	β Virginis	B	13 ²	15 ⁶	18 ¹	23 ⁰	25 ⁵	28 ⁰	35 ³	38 ⁰	40 ²	42 ⁸	11. 44. 28 ⁰¹	+ 2 ⁷⁸	28 ⁵¹	19 ⁷⁸	51 ²⁷	51 ¹⁹	11. 45. 19 ⁸⁰	- 3 ¹⁴	
	2	Groombridge 1839	B	23 ⁴	26 ⁶	30 ¹	...	...	...	...	56 ⁰	59 ⁷	2 ⁸	11. 50. 43 ¹⁴	(+ 0 ⁴⁸)	43 ⁵¹			[+ 0 ²⁰]	11. 51. 34 ⁸⁰	- 3 ³³	
	3	Groombridge 1840	B	36 ⁵	39 ⁷	43 ¹	...	...	...	...	...	9 ⁰	12 ²	15 ⁸	11. 50. 56 ⁰⁹	[+ 5 ⁷⁴]	56 ⁴⁶				11. 51. 47 ⁷⁵	- 3 ³²
	4	Groombridge 1841	B	45 ⁵	48 ⁹	52 ¹	...	...	...	...	...	18 ⁰	21 ⁵	24 ⁹	11. 51. 5 ¹⁹		5 ⁵⁶				11. 51. 56 ⁸⁵	- 3 ³²
	5	Bradley 3195 S.P.	B	...	...	10 ⁵	15 ⁶	30 ⁴	35 ⁵	40 ⁹	50 ⁶	...	...	11. 55. 30 ⁴⁸		30 ⁸⁰					23. 56. 22 ⁰⁹	- 3 ⁵¹
	6	o Virginis	B	50 ⁹	53 ³	55 ⁹	0 ⁹	3 ⁴	6 ⁰	13 ³	16 ⁰	18 ⁴	21 ¹	11. 59. 5 ⁹⁶		6 ⁴³	57 ⁷⁰	51 ²⁷		11. 59. 57 ⁷²	- 3 ⁰⁴	
	7	o Virginis... (E&E)	B	13 ⁹	28 ⁹	43 ⁹	59 ⁰	14 ⁰	28 ⁹	43 ⁹	...	...	...	11. 59. 6 ⁰⁰		6 ⁴⁷	57 ⁷⁰	51 ²³		.....		
	8	ε Corvi	B	41 ⁴	44 ⁰	46 ⁸	52 ⁰	54 ⁷	57 ⁴	5 ²	8 ⁰	10 ⁶	13 ⁵	12. 3. 57 ⁴⁰		58 ⁰⁰	49 ²³	51 ²³		12. 4. 49 ²⁹	- 2 ⁷⁶	
	9	ε Corvi... (E&E)	B	2 ¹	18 ⁴	34 ⁵	50 ³	6 ⁶	22 ⁵	38 ⁴	...	...	...	12. 3. 57 ⁴⁷		58 ⁰⁷	49 ²³	51 ¹⁶		.....		
	10	Bradley 1634	B	...	...	42 ⁴	6 ⁷	18 ⁰	30 ⁴	6 ⁹	18 ²	...	...	12. 6. 30 ⁶⁷		30 ⁸⁸				12. 7. 22 ¹⁷	- 2 ⁸⁸	
	11	Bradley 1672	B	36 ⁰	45 ⁰	58 ⁰	6 ⁰	34 ¹	39 ⁷	47 ¹	5 ⁵	12 ¹	17 ⁵	12. 13. 29 ⁰⁰		28 ⁴²	19 ⁸⁴	51 ⁴²		12. 14. 19 ⁷¹	+ 2 ⁹³	
	12	δ 2 L	B	15 ⁹	18 ²	21 ¹	26 ⁰	28 ⁵	31 ²	38 ⁸	41 ³	44 ⁰	46 ⁵	12. 21. 31 ¹⁹		31 ⁷³				12. 21. 14 ⁸⁶		
	13	δ 2 Corvi	B	24 ²	26 ⁹	29 ⁶	34 ⁶	37 ¹	39 ⁹	47 ³	50 ⁰	52 ⁵	55 ²	12. 23. 39 ⁷⁷		40 ³³	31 ⁶⁷	51 ³⁴		12. 24. 31 ⁶²	- 2 ⁷⁶	
	14	4 Draconis	B	...	...	...	...	...	44 ¹	5 ¹	12 ⁰	19 ⁴	27 ¹	12. 24. 43 ⁹⁷		44 ²⁵				12. 25. 35 ⁵⁴	- 2 ⁴⁴	
	15	κ Draconis	B	...	...	43 ⁸	58 ⁵	5 ⁸	13 ⁴	35 ⁰	42 ⁶	...	...	12. 28. 13 ³³		13 ⁶⁰				12. 29. 4 ⁸⁹	- 2 ²⁹	
	16	α Cassiopeiae S.P.	B	22 ¹	27 ¹	31 ⁵	36 ⁰	49 ⁰	53 ⁴	58 ⁰	6 ⁴	11 ²	15 ⁵	12. 33. 48 ⁹⁵		49 ²⁵				0. 34. 40 ⁵⁴	- 4 ²⁷	
	17	ε Ursæ Majoris ...	B	...	...	20 ⁰	28 ⁹	33 ²	38 ⁰	51 ¹	55 ⁷	...	...	12. 48. 37 ⁹¹		38 ²⁵				12. 49. 29 ⁵⁵	- 2 ³²	
	18	δ Virginis	B	17 ⁸	20 ²	22 ⁸	27 ⁷	30 ¹	32 ⁹	40 ⁰	42 ⁵	45 ¹	47 ⁶	12. 49. 32 ⁷¹		33 ²⁰	24 ⁵⁴	51 ³⁴		12. 50. 24 ⁵⁰	- 2 ⁷⁰	
	19	Bradley 1724	B	...	3 ⁵	6 ⁸	12 ⁹	16 ¹	19 ⁵	28 ⁹	32 ⁰	35 ¹	...	12. 50. 19 ⁴¹		19 ⁸⁰				12. 51. 11 ¹⁰	- 2 ⁵⁷	
	20	α Canum Venaticum	B	...	4 ⁸	8 ⁰	14 ¹	17 ⁴	20 ⁷	30 ¹	33 ²	36 ³	...	12. 50. 20 ⁶⁴		21 ⁰³				12. 51. 12 ³³	- 2 ⁵⁷	
	21	α Comæ	B	50 ⁹	53 ⁵	56 ¹	1 ³	4 ⁰	6 ⁶	14 ¹	16 ⁹	19 ⁵	22 ¹	13. 4. 6 ⁵⁴		6 ⁹⁹				13. 4. 58 ²⁹	- 2 ⁵⁸	
	22	β Comæ	B	...	...	...	...	...	...	20 ²	23 ¹	26 ⁰	28 ⁹	13. 6. 11 ⁹⁹		12 ⁴⁰				13. 7. 3 ⁷⁰	- 2 ⁴⁷	
	23	Spica	B	38 ¹	40 ⁸	43 ⁵	48 ²	50 ⁹	53 ⁵	1 ⁰	3 ⁴	6 ⁰	8 ⁵	13. 18. 53 ⁴³		53 ⁹⁸	45 ³⁶	51 ³⁸		13. 19. 45 ²⁸	- 2 ⁵⁹	
	24	Polaris S.P.	B	41 ¹	47 ⁷	57 ¹	19 ¹	26 ⁴	42 ¹	50 ¹	2 ⁰	16 ¹	21 ⁴	13. 20. 50 ⁶⁹		52 ²⁸	42 ²⁹	50 ⁰¹		1. 21. 43 ⁵⁸	- 48 ⁴⁴	
	25	θ Boötis ...	B	24 ⁵	28 ³	32 ⁵	40 ⁴	44 ⁵	48 ⁸	0 ⁶	4 ⁶	8 ⁷	12 ⁹	14. 20. 48 ⁶⁴		48 ⁹⁸				14. 21. 40 ²⁹	- 0 ⁹⁵	
	26	ρ Boötis	B	13 ⁶	16 ²	19 ⁵	25 ¹	28 ⁰	30 ⁹	...	...	...	...	14. 26. 30 ⁸⁷		31 ²⁹	22 ⁶⁶	51 ³⁷		14. 27. 22 ⁶⁰	- 1 ⁸¹	
	27	γ Boötis	B	...	...	...	56 ⁹	0 ⁰	3 ¹	12 ⁶	15 ⁸	18 ⁹	22 ¹	14. 27. 3 ¹⁹		3 ⁵⁸				14. 27. 54 ⁸⁹	- 1 ⁵⁵	
	28	ζ Boötis	B	6 ⁰	8 ⁴	11 ⁰	16 ⁰	18 ⁵	21 ²	28 ⁷	31 ²	34 ⁰	36 ⁵	14. 35. 21 ¹⁹		21 ⁶⁵				14. 36. 12 ⁹⁶	- 2 ¹⁰	
	29	ε ¹ Boötis	B	3 ¹	20 ⁰	22 ⁶	...	...	...	...	50 ⁴	53 ⁴	10 ⁰	14. 39. 36 ⁶²		37 ⁰³				14. 40. 28 ³⁴	- 1 ⁷⁹	
	30	ε ² Boötis	B	...	...	25 ⁸	31 ¹	34 ⁰	36 ⁸	44 ⁹	47 ⁸	...	...	14. 39. 36 ⁷⁸		37 ¹⁹	28 ⁴⁶	51 ²⁷		14. 40. 28 ⁵⁰	- 1 ⁷⁹	
	31	β Ursæ Minoris...	B	9 ⁴	18 ⁴	28 ⁰	46 ¹	55 ⁹	5 ⁴	32 ⁷	42 ¹	51 ⁴	0 ⁹	14. 50. 5 ¹⁷		5 ⁴²				14. 50. 56 ⁷³	+ 3 ⁵⁷	
	32	Piazzi XIV. 260..	B	26 ⁰	32 ⁰	38 ¹	50 ¹	56 ⁶	2 ⁹	20 ⁹	27 ³	33 ⁵	39 ⁹	14. 55. 2 ⁸¹		3 ¹³				14. 55. 54 ⁴⁴	+ 1 ²⁴	
	33	β Boötis	B	...	...	...	4 ⁵	7 ⁸	11 ¹	20 ⁸	24 ⁰	27 ⁴	30 ⁷	14. 57. 11 ¹²		11 ⁴⁹				14. 58. 2 ⁸⁰	- 1 ²¹	
	34	ψ Boötis	B	52 ⁴	55 ²	58 ¹	3 ⁷	6 ⁴	9 ⁴	17 ⁵	20 ¹	23 ⁰	26 ⁰	14. 59. 9 ²²		9 ⁶³	1 ⁰³	51 ⁴⁰		15. 0. 0 ⁹⁴	- 1 ⁶⁸	
	35	δ Boötis	B	...	13 ⁵	16 ²	22 ²	25 ¹	28 ¹	37 ¹	40 ⁰	42 ⁹	...	15. 10. 28 ²⁰		28 ⁶⁰				15. 11. 19 ⁹²	- 1 ⁴¹	
	36	γ Ursæ Minoris...	B	10 ⁰	17 ⁹	26 ¹	42 ⁰	50 ¹	58 ²	22 ²	30 ¹	38 ⁴	46 ⁸	15. 19. 58 ³⁰		58 ⁵⁷				15. 20. 49 ⁸⁹	+ 3 ³⁹	
	37	ι Draconis	B	15 ⁷	20 ⁵	25 ²	35 ¹	40 ⁰	44 ⁹	...	...	...	...	15. 21. 44 ⁷⁹		45 ⁴¹				15. 22. 36 ⁴³	+ 0 ⁵¹	
	38	θ Coronæ	B	36 ²	39 ¹	42 ⁰	47 ⁹	50 ⁸	53 ⁹	2 ²	5 ²	8 ⁰	11 ¹	15. 27. 53 ⁶⁸		54 ⁰⁹				15. 28. 45 ⁴¹	- 1 ³⁷	
	39	θ Ursæ Minoris...	B	22 ⁰	33 ⁴	44 ⁸	8 ¹	19 ⁵	31 ⁴	5 ⁶	17 ³	28 ⁹	40 ⁹	15. 33. 31 ³⁶		31 ⁵⁹				15. 34. 22 ⁹¹	+ 7 ⁰²	
	40	α Serpentis	B	4 ⁰	6 ⁴	8 ⁹	14 ⁰	16 ²	18 ⁹	26 ¹	28 ⁷	31 ⁴	34 ⁰	15. 38. 18 ⁹⁰		19 ³⁸	10 ⁶⁹	51 ³¹		15. 39. 10 ⁷⁰	- 2 ⁰²	
	41	ζ Ursæ Minoris...	B	34 ⁸	46 ⁵	58 ⁶	22 ⁸	34 ⁵	47 ⁰	22 ²	34 ¹	46 ²	58 ⁶	15. 46. 46 ⁷¹		46 ⁹²				15. 47. 38 ²		

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 JAN 18

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sideral and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896°.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
				s	s	s	s	s	s	s	s	s	s									
Nov. 30	1	γ Draconis.....	B	...	...	...	11'3	15'3	19'3	31'0	34'9	38'9	43'1	17. 53. 19'27	+ 2'70	19'64			51'19	17. 54. 10'98	+ 0'47	
	2	72 Ophiuchi.....	B	...	...	25'2	30'1	32'6	35'1	42'5	45'2	...	...	18. 1. 35'17	(+ 0'70)	35'65	27'00	51'35	[+ 0'20]	18. 2. 26'99	- 1'90	
	3	ο Herculis.....	B	21'5	24'2	27'1	32'9	35'5	38'7	46'9	49'8	52'5	55'5	18. 2. 38'50	[+ 5'74]	38'93				18. 3. 30'27	- 1'18	
	4	δ Ursæ Minoris...	B	44'9	50'5	56'0	0'5	4'4	8'0	12'4	16'1	20'0	24'7	18. 4. 16'74		16'71	7'39	50'68		18. 5. 8'05	+ 43'26	
	5	109 Herculis.....	B	...	...	...	...	...	...	33'6	36'1	38'9	41'7	18. 18. 25'69		26'12				18. 19. 17'46	- 1'52	
	6	φ Draconis.....	B	32'0	39'7	47'6	3'1	10'2	18'6	...	...	...	...	18. 21. 18'35		18'65				18. 22. 9'99	+ 4'88	
	7	χ Draconis.....	B	...	...	...	42'0	50'2	59'0	23'6	31'5	40'1	48'5	18. 21. 58'81		59'11				18. 22. 50'45	+ 5'47	
	8	α Lyræ.....	B	...	...	...	27'6	30'7	34'0	43'4	46'4	49'7	53'0	18. 32. 33'98		34'38	25'72	51'34		18. 33. 25'72	- 0'71	
	9	β Lyræ.....	B	6'0	8'9	12'0	17'8	20'6	23'8	32'5	35'5	38'4	41'5	18. 45. 23'74		24'15	15'44	51'29		18. 46. 15'50	- 1'05	
	10	Cephei 51 S.P....	B	0'2	10'0	20'9	32'1	43'0	2'5	13'1	23'5	33'2	43'1	18. 51. 52'16		52'94	43'97	51'03		6. 52. 44'29	- 58'64	
	11	γ Lyræ.....	B	54'9	58'0	0'9	6'5	9'6	12'5	21'2	24'1	27'1	30'1	18. 54. 12'53		12'94				18. 55. 4'29	- 1'12	
	12	ζ Aquilæ.....	B	32'6	35'1	37'8	42'8	45'3	48'0	55'5	58'0	0'5	3'2	18. 59. 47'92		48'39	39'68	51'29		19. 0. 39'74	- 1'92	
	13	Venus 1 L.....	B	41'5	44'1	...	...	...	58'0	...	...	...	11'5	14'2	19. 5. 57'88							
	14	Venus 2 L.....	B	...	...	47'8	53'2	56'0	...	6'8	9'6	...	...	19. 5. 58'94		59'03				19. 6. 50'38		
	15	ρ Capricorni.....	HF	51'5	54'0	56'5	1'9	4'3	7'1	14'6	17'4	20'0	22'6	20. 22. 7'03		7'62	58'83	51'21	51'05	20. 22. 58'84	- 3'11	
	16	ε Delphini.....	HF	10'1	12'7	15'3	20'1	22'8	25'4	32'9	35'4	38'0	40'5	20. 27. 25'36		25'83	17'02	51'19		20. 28. 17'05	- 2'40	
	17	β Delphini.....	B	35'4	38'0	40'6	45'7	48'1	50'9	58'4	1'0	3'5	6'1	20. 31. 50'81		51'28			51'19	20. 32. 42'64	- 2'33	
	18	κ Delphini.....	B	0'4	2'8	5'2	10'1	12'6	15'3	22'6	25'3	27'7	30'3	20. 33. 15'27		15'75				20. 34. 7'11	- 2'49	
	19	α Delphini.....	B	43'5	46'0	48'5	53'7	56'1	58'9	6'5	9'1	11'8	14'1	20. 33. 58'86		59'32	50'72	51'40		20. 34. 50'68	- 2'31	
	20	a Cygni.....	B	41'5	44'9	48'5	55'4	58'9	2'4	12'7	16'1	19'9	23'4	20. 37. 2'42		2'80				20. 37. 54'16	- 1'03	
	21	ε Cygni.....	B	52'1	55'1	58'1	4'0	7'1	10'1	18'9	21'9	24'9	28'0	20. 41. 10'06		10'47				20. 42. 1'83	- 1'72	
	22	η Cephei.....	B	...	...	...	...	...	18'1	33'6	38'6	44'0	49'2	20. 42. 18'22		18'56				20. 43. 9'92	+ 0'55	
	23	μ Aquarii.....	W	59'0	1'4	3'8	8'7	11'3	13'9	21'4	23'8	26'2	28'8	20. 46. 13'87		14'41	5'66	51'25	51'14	.....		
	24	μ Aquarii... (E&E)	W	22'2	37'2	52'3	7'3	22'4	37'4	52'4	...	...	...	20. 46. 13'74		14'28	5'66	51'38		.....		
	25	32 Vulpeculæ...	W	1'0	3'9	6'7	12'1	14'9	17'9	26'1	28'9	31'8	34'6	20. 49. 17'83		18'25	9'62	51'37		.....		
	26	Piazzi XX. 465...	B	48'4	51'7	55'0	1'5	4'8	8'1	17'9	21'1	24'5	28'0	20. 59. 8'15		8'54			51'19	20. 59. 59'90	- 1'47	
	27	ξ Cygni.....	B	58'0	1'4	4'9	11'6	14'9	18'4	28'5	32'0	35'5	38'8	21. 0. 18'45		18'83				21. 1. 10'20	- 1'36	
	28	61 ¹ Cygni.....	B	...	...	...	...	21'1	...	33'8	36'9	39'9	43'1	21. 1. 24'35		24'75				21. 2. 16'12	- 1'96	
	29	61 ² Cygni.....	B	...	...	...	...	22'5	...	35'1	38'2	41'4	44'8	21. 1. 25'79		26'19				21. 2. 17'56	- 1'96	
	30	ζ Cygni.....	B	23'6	26'5	29'4	35'1	38'0	40'8	49'3	52'0	55'1	58'0	21. 7. 40'82		41'24	32'63	51'39		21. 8. 32'61	- 2'06	
	31	τ Cygni.....	B	29'6	32'6	36'0	42'0	45'1	48'2	57'5	0'6	3'9	7'0	21. 9. 48'30		48'71				21. 10. 40'08	- 1'77	
	32	σ Cygni.....	B	10'8	13'9	17'0	23'2	26'3	29'9	39'1	42'1	45'5	48'9	21. 12. 29'72		30'12				21. 13. 21'49	- 1'72	
	33	Groombridge 3434	B	4'9	8'9	13'1	...	...	...	...	45'5	49'5	53'7	21. 15. 29'32		29'69				21. 16. 21'06	- 0'91	
	34	Groomb. 3436 (1st Star)	B	22'5	26'5	30'6	...	...	...	...	3'1	7'0	11'4	21. 15. 46'90		47'27				21. 16. 38'64	- 0'92	
	35	Groomb. 3436 (2nd Star)	B	23'2	27'1	31'2	...	...	...	...	3'8	7'8	11'9	21. 15. 47'55		47'92				21. 16. 39'29	- 0'92	
	36	Groombridge 3548	B	38'1	46'0	53'9	10'9	20'1	28'4	...	...	...	...	21. 19. 2'90		2'87				21. 19. 54'24	+ 26'44	
	37	β Aquarii.....	B	...	...	...	11'3	13'8	16'2	23'6	26'1	28'6	31'2	21. 25. 16'27		16'80	8'15	51'35		21. 26. 8'17	- 3'13	
	38	37 Capricorni.....	B	56'1	58'9	1'5	6'9	9'4	12'1	20'0	22'5	25'4	28'0	21. 28. 12'12		12'72				21. 29. 4'09	- 3'46	
	39	ε Capricorni.....	B	11'1	13'8	16'2	21'8	24'1	26'9	34'8	37'5	40'1	42'9	21. 30. 26'96		27'55				21. 31. 18'92	- 3'46	
	40	γ Capricorni.....	B	15'6	18'1	20'8	26'0	28'4	31'2	38'9	41'5	44'1	46'7	21. 33. 31'17		31'75				21. 34. 23'12	- 3'43	
	41	42 Capricorni.....	B	...	...	...	...	...	...	12'5	15'1	17'9	20'2	21. 35. 5'02		5'59				21. 35. 56'96	- 3'35	
	42	45 Capricorni.....	B	16'2	18'9	21'4	26'5	28'9	31'8	39'2	41'9	44'4	47'1	21. 37. 31'67		32'24				21. 38. 23'61	- 3'39	
	43	δ Capricorni.....	B	14'0	16'5	19'2	24'1	26'9	29'5	37'4	39'9	42'3	45'1	21. 40. 29'53		30'11	21'47	51'36		21. 41. 21'48	- 3'45	
	44	μ Capricorni...R.	B	3'1	18'5	34'0	36'3	39'1	...	...	...	...	...	21. 46. 49'12		49'65				21. 47. 41'02	- 3'43	
	45	μ Capricorni.....	B	...	...	...	...	...	...	56'4	59'2	1'9	4'3	21. 46. 49'06		49'63				21. 47. 41'00	- 3'43	
	46	Groombridge 3628	B	38'5	42'0	45'3	...	...	58'9	...	12'0	15'5	18'9	21. 52. 58'77		59'15				21. 53. 50'52	- 1'99	
	47	Groombridge 3630	B	48'1	51'3	54'9	...	...	8'2	...	21'8	25'0	28'4	21. 53. 8'28		8'66				21. 54. 0'03	- 1'99	
	48	ο Aquarii.....	B	52'5	55'1	57'6	2'4	4'9	7'5	14'7	17'2	19'8	22'1	21. 57. 7'42		7'94				21. 57. 59'31	- 3'24	
	49	ι Aquarii..... R.	B	14'9	30'1	45'6	48'0	50'7	...	...	...	...	...	22. 0. 0'81		1'34				22. 0. 52'71	- 3'48	
	50	ι Aquarii.....	B	...	...	...	...	...	...	8'2	10'9	13'5	16'1	22. 0. 0'78		1'35				22. 0. 52'72	- 3'48	
	51	λ Ursæ Maj. S.P..	B	42'3	45'8	49'1	52'4	2'7	6'0	9'5	16'3	19'8	23'0	22. 10. 2'64		2'90				10. 10. 54'27	- 4'71	
	52	μ Ursæ Maj. S.P..	B	0'9	4'4	7'6	10'9	21'0	24'1	27'5	34'0	37'5	41'0	22. 15. 20'84		21'11				10. 16. 12'49	- 4'60	
	53	Groombridge 3784	B	1'3	10'2	19'9	38'0	47'0	56'6	23'5	32'6	42'0	51'2	22. 21. 56'37		56'65				22. 22. 48'03	+ 0'59	
	54	Groombridge 3788	B	40'7	49'6	59'4	17'3	26'2	35'8	2'5	11'7	20'9	30'4	22. 22. 35'59		35'87				22. 23. 27'25	+ 0'56	

Correction to the time by Hardy for reduction to Sideral Standard, applied to form Concluded Transit, No. 24. — 113^h 60.

4. Observed over wire T with the transit-micrometer set to readings 37^r 717, 37^r 849, 37^r 974, 38^r 076, 38^r 161, 38^r 248, 38^r 340, 38^r 457, 38^r 560, 38^r 660.
 10. Observed over wire T with the transit-micrometer set to readings 36^r 600, 36^r 700, 36^r 800, 36^r 900, 35^r 800, 35^r 900, 34^r 800, 34^r 900.
 14. A correction of + 0^h 20, for defect of illumination, has been applied in forming the concluded transit.
 36. Observed over wire T with the transit-micrometer set to readings 35^r 000, 35^r 200, 35^r 400, 35^r 600, 36^r 000, 36^r 200.
 44, 49. Observed over wires M, N, O, P and Q.

MONTH	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock Apparent Slow.	Adopted Clock Slow at Sidereal and [Lossing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Nov. 30	1	η Aquarii	B	57.4	59.9	2.2	7.1	9.6	12.1	19.4	22.0	24.5	27.1	22. 29. 12.17	+ 2.70	12.68	4.06	51.38	51.19	22. 30. 4.06	- 3.39
	2	Piazzi XXII. 159	B	...	...	...	54.1	57.4	0.6	10.0	...	...	...	22. 30. 0.60	(+ 0.70)	1.00			[+ 0.20]	22. 30. 52.38	- 2.57
	3	Bradley 2981	B	6.0	9.1	...	...	...	25.1	...	...	41.2	44.2	22. 30. 25.14	[+ 5.74]	25.54				22. 31. 16.92	- 2.57
	4	8 Lacertæ	B	...	...	12.5	19.0	22.1	...	34.9	38.0	...	...	22. 30. 25.37		25.77				22. 31. 17.15	- 2.57
	5	Groombridge 3887	B	53.9	1.6	9.2	25.0	32.8	40.5	...	...	...	...	22. 38. 17.17		17.38				22. 39. 8.76	+ 2.43
	6	Lalande F. 1706 S.P.	B	...	...	...	...	...	3.6	36.7	45.9	21.0	...	22. 39. 27.34		27.97				10. 40. 19.35	- 16.59
	7	Bradley 3038...R.	B	30.9	40.1	49.9	8.6	18.6	28.5	...	...	...	...	22. 46. 59.43		58.99				22. 47. 50.37	+ 3.07
	8	α Ursæ Maj. S.P.R.	B	59.9	5.4	10.5	16.0	...	...	...	...	...	...	22. 56. 31.73		32.13				10. 57. 23.51	- 4.83
	9	α Ursæ Maj. S.P.	B	...	...	...	...	...	37.3	42.9	53.2	58.5	4.0	22. 56. 31.99		32.31				10. 57. 23.69	- 4.83
	10	Oeltz. Arg. (N.) 11509 S.P.R.	B	4.7	11.5	18.1	25.4	45.5	52.6	59.5	12.9	20.0	26.8	23. 4. 45.60		46.08				11. 5. 37.46	- 5.09
	11	γ Piscium	B	43.3	45.8	48.2	53.0	55.5	58.1	5.4	8.0	10.2	13.0	23. 10. 58.09		58.59	50.01	51.42		23. 11. 49.97	- 3.63
	12	Piazzi XI. 43 S.P.	B	18.4	24.2	30.1	36.1	53.2	59.5	5.3	16.8	22.2	28.5	23. 15. 53.34		53.68				11. 16. 45.06	- 4.48
	13	Bradley 3147	B	11.2	19.9	27.4	37.9	45.5	4.0	12.5	22.0	30.8	38.2	23. 26. 54.94		54.89	45.97	51.08		23. 27. 46.28	+ 3.16
	14	Groomb. 1806 S.P.R.	B	28.0	33.9	39.5	44.9	...	...	...	...	...	...	23. 31. 1.15		1.56				11. 31. 52.95	- 4.04
	15	Groomb. 1806 S.P.	B	...	...	...	...	...	7.2	12.5	23.5	29.0	34.4	23. 31. 1.49		1.82				11. 31. 53.21	- 4.04
	16	Groombridge 4159	B	...	...	47.2	53.5	56.7	59.9	9.2	12.3	...	...	23. 47. 59.86		0.26				23. 48. 51.65	- 3.53
	17	Groombridge 4168	B	6.5	10.0	13.2	19.9	23.1	26.5	36.2	39.5	42.9	46.4	23. 50. 26.47		26.86				23. 51. 18.25	- 3.53
	18	Groombridge 4178	B	58.2	1.2	4.2	10.7	13.9	17.1	26.2	29.5	32.6	36.0	23. 52. 17.01		17.41				23. 53. 8.80	- 3.58
	19	Ceres	B	...	...	...	...	...	6.2	13.8	16.1	18.9	21.4	23. 54. 6.21		6.76				23. 54. 58.15	- 3.85
	20	γ Pegasi	B	49.4	51.9	54.5	59.7	2.1	4.8	12.2	14.9	17.5	20.0	0. 7. 4.74		5.21	56.60	51.39	51.39	0. 7. 56.60	- 3.85
	21	γ Pegasi ... (E&E)	B	12.7	28.0	43.1	58.6	14.0	29.0	44.5	...	...	...	0. 7. 4.79		5.26	56.60	51.34		.....	.....
	22	Bradley 1672 S.P.	B	47.3	55.0	2.6	10.0	18.2	34.0	43.6	52.0	59.4	8.8	0. 13. 27.09		28.13	20.13	52.00		12. 14. 19.52	+ 2.64
	23	5 Canum Venaticum S.P.	B	45.5	49.9	53.6	57.9	9.6	14.0	18.0	25.4	29.9	34.0	0. 18. 9.72		10.01				12. 19. 1.40	- 2.95
	24	7 Canum Venaticum S.P.	B	54.4	58.9	2.8	7.1	18.7	22.9	26.9	34.9	39.1	43.1	0. 24. 18.82		19.11				12. 25. 10.50	- 2.82
	25	Groombridge 95..	B	...	...	32.0	36.9	46.9	51.9	56.9	11.1	16.1	20.9	0. 28. 56.69		57.03				0. 29. 48.42	- 4.24
	26	Groombridge 99..	B	...	...	25.5	35.1	40.0	45.1	59.9	4.3	...	...	0. 29. 45.08		45.42				0. 30. 36.81	- 4.26
	27	Groombridge 104	B	17.0	21.9	26.5	...	...	46.1	...	5.9	10.5	15.6	0. 30. 46.26		46.60				0. 31. 37.99	- 4.27
	28	Groombridge 108	B	...	...	29.5	39.1	44.0	49.2	3.5	8.5	...	...	0. 31. 49.07		49.41				0. 32. 40.80	- 4.30
	29	Groombridge 116	B	56.9	1.7	6.5	16.1	21.1	26.1	40.2	45.1	50.1	55.4	0. 33. 25.99		26.33				0. 34. 17.72	- 4.33
	30	Oeltz. Arg. (N.) 603	B	...	...	32.0	36.8	...	...	...	15.9	20.7	...	0. 33. 56.44		56.78				0. 34. 48.17	- 4.35
	31	7 Draconis S.P....	B	51.4	58.0	4.4	10.9	29.9	36.5	42.9	55.3	2.0	8.4	0. 42. 29.87		30.21				12. 43. 21.61	- 2.04
	32	Piazzi O. 199	B	...	...	...	...	...	12.8	24.3	28.2	32.2	36.1	0. 44. 12.69		13.06				0. 45. 4.46	- 4.36
	33	Piazzi O. 203	B	26.8	30.4	34.6	42.3	46.1	50.1	2.0	5.9	9.8	13.7	0. 44. 50.23		50.60				0. 45. 42.00	- 4.38
	34	Groomb. 1943 S.P.	B	...	...	28.0	35.2	55.8	3.0	10.0	24.0	...	...	0. 51. 55.86		56.20				12. 52. 47.60	- 1.61
	35	Carrington 1943 S.P.	B	58.5	8.0	18.2	28.7	38.5	...	...	...	...	...	0. 57. 18.38		19.15				12. 58. 10.55	+ 11.04
	36	Groombridge 175	B	43.5	50.1	58.0	3.5	10.5	30.2	36.5	42.7	49.1	55.1	0. 58. 19.92		19.71				0. 59. 11.11	- 21.39
	37	Bradley 95	B	10.1	18.7	25.6	34.6	44.0	58.0	5.7	13.5	23.1	...	0. 57. 55.28		55.25				0. 58. 46.65	- 15.37
	38	Polaris	B	19.9	25.8	30.9	49.0	53.0	57.4	11.6	16.8	22.3	28.0	1. 20. 50.91		50.22	41.99	51.77		1. 21. 41.62	- 48.14
	39	19 Arietis	B	20.1	22.9	25.5	30.4	33.1	35.6	43.1	45.8	48.3	50.9	2. 6. 35.61		36.08				2. 7. 27.49	- 4.65
	40	B. D. — 1° No. 305	B	39.4	42.0	44.3	49.3	51.8	54.1	1.5	4.0	6.6	9.1	2. 7. 34.25		54.76				2. 8. 46.17	- 4.49
	41	67 Ceti	B	45.2	47.8	50.2	55.1	57.6	0.1	7.6	10.0	12.6	15.2	2. 11. 0.18		0.72	52.15	51.43		2. 11. 52.13	- 4.46
	42	B. D. — 1° No. 313	B	39.0	41.5	44.0	49.1	51.5	54.0	1.1	3.6	6.1	8.7	2. 11. 53.90		54.41				2. 12. 45.82	- 4.51
	43	Radcliffe 3250 S.P.	B	8.1	14.5	20.9	28.3	35.2	45.7	52.3	0.5	7.3	14.9	2. 17. 40.77		41.69				14. 18. 33.10	+ 39.16
	44	Carrington 2170 S.P.	B	48.8	2.2	18.0	32.1	46.5	...	...	...	...	...	2. 21. 17.52		18.10				14. 22. 9.51	+ 15.24
	45	Piazzi II. 60	B	...	...	...	...	...	40.9	57.0	13.1	29.8	...	2. 21. 53.12		53.31				2. 22. 44.72	- 14.01
	46	Carrington 303...	B	15.6	33.1	45.4	53.1	9.2	17.0	23.6	39.1	...	...	2. 28. 59.51		58.47				2. 29. 49.88	- 109.91
	47	B.D. + 66° No. 870 S.P.	B	12.8	19.1	25.5	31.1	49.1	55.0	1.1	13.4	19.5	25.6	2. 44. 49.13		49.47				14. 45. 40.88	+ 0.93
	48	ε Arietis	WS	13.1	15.6	18.2	23.5	26.1	28.8	36.8	39.4	42.0	44.9	2. 52. 28.88		29.32	20.78	51.46	51.41	.....	.....
	49	Groomb. 2175 S.P.	B	9.5	14.0	18.2	22.9	36.0	40.1	44.8	53.9	58.0	2.4	2. 55. 35.91		36.21			51.39	14. 56. 27.62	- 0.21
	50	Groomb. 2179 S.P.	B	9.6	14.0	18.5	23.1	36.1	40.6	44.9	53.8	58.3	2.8	2. 56. 36.10		36.40				14. 57. 27.81	- 0.19
	51	δ Arietis	WS	38.2	40.9	43.5	48.7	51.3	54.0	1.8	4.2	6.9	9.8	3. 4. 53.97		54.42	45.82	51.40	51.41	.....	.....
	52	Bradley 445	B	6.0	11.8	17.9	29.4	35.3	41.4	59.0	4.9	10.7	16.9	3. 7. 41.42		41.74			51.39	3. 8. 33.16	- 8.12
	53	Bradley 448	B	31.1	36.9	43.0	54.7	0.6	6.8	24.0	30.0	36.0	42.1	3. 10. 6.61		6.93				3. 10. 58.35	- 8.17
	54	Groomb. 2283 S.P.	B	58.0	3.4	8.2	13.5	32.0	37.2	42.1	55.6	0.2	5.1	3. 9. 5.02		5.88				15. 9. 57.30	+ 45.97

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 21, — 113".80.

- 5, 7. Observed over wire T with the transit-micrometer set to readings 34".100, 34".600, 35".100, 36".100, 36".600, 37".100.
 13. Observed over wire T with the transit-micrometer set to readings 34".600, 34".800, 35".000, 35".200, 35".400, 35".800, 36".000, 36".200, 36".400, 36".600.
 19. Very faint.
 22, 43. Observed over wire T with the transit-micrometer set to readings 36".100, 36".000, 35".900, 35".800, 35".700, 35".500, 35".400, 35".300, 35".200, 35".100.
 23. Very unsteady and diffused.
 35. Observed over wire T with the transit-micrometer set to readings 36".000, 35".800, 35".600, 35".400, 35".200.
 36. Observed over wire T with the transit-micrometer set to readings 33".100, 33".200, 33".300, 33".400, 33".500, 37".700, 37".800, 37".900, 38".000, 38".100.
 37. Observed over wire T with the transit-micrometer set to readings 30".200, 30".400, 30".600, 30".800, 31".000, 41".400, 41".600, 41".800, 42".000.
 38. Observed over wire P with the transit-micrometer set to readings 35".075, 35".160, 35".209, 35".317, 35".380, 35".439, 35".555, 35".615, 35".667, 35".705.
 40, 42. Observed in dark field with wires illuminated.
 44. Observed over wire T with the transit-micrometer set to readings 36".600, 36".100, 35".600, 35".100, 34".600.
 46. Observed over wire T with the transit-micrometer set to readings 35".350, 35".450, 35".500, 35".550, 35".650, 35".700, 35".750, 35".850.
 54. Observed over wire T with the transit-micrometer set to readings 32".716, 32".610, 32".513, 32".440, 32".160, 32".041, 31".949, 31".745, 31".648, 31".589.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898

MONTH
and
Y.

No. for Reference.

NAME
OF
OBJECT.

Observer.

Seconds of Transit over the Wires.

I.

II.

III.

IV.

V.

VI.

VII.

VIII.

IX.

X.

Concluded
Transit
over the
Centre Wire.

Error of
Collimation.
(Level).
[Azimuth].

Seconds
of
Transit
Cor-
rected.

Tabular
R.A.
of
Known
Stars.

Clock
appa-
rently
Slow.

Adopted
Clock Slow
at
Sidereal
and
[Losing Rate].

Apparent
R.A.
of Centre
from the
Observation.

Correction
for Re-
duction to
Mean R.A.
1890.

Nov. 30

1

64 Arietis

B

6.9

9.6

12.3

17.6

20.3

23.2

31.1

34.0

36.6

39.5

3. 17. 23.15

+ 2.70

23.59

51.39

3. 18. 15.01

- 5.22

2

Oeltz. Arg. (N.) 3781.

B

...

4.7

8.6

16.0

19.7

23.5

34.5

38.4

42.1

...

3. 19. 23.51

(+ 0.70)

23.88

[+ 0.20]

3. 20. 15.30

- 6.34

3

Bradley 476

B

31.2

...

...

46.0

49.9

53.8

4.9

...

16.2

3. 19. 53.72

[+ 5.74]

54.99

3. 20. 45.51

- 6.35

4

f Tauri

HF

5.6

8.1

10.9

15.9

18.2

20.9

28.5

31.1

33.7

36.1

3. 24. 20.94

21.31

12.72

51.41

51.25

3. 25. 12.59

- 4.95

5

ε Eridani

HF

59.5

2.0

4.5

9.4

12.0

14.5

22.0

24.5

27.1

29.6

3. 27. 14.55

15.09

6.28

51.19

3. 28. 6.37

- 4.52

6

Piazzi XV. 136 S.P.

B

0.3

...

...

17.9

...

40.6

46.2

...

...

9.1

3. 28. 34.73

35.06

51.39

15. 29. 26.48

+ 1.47

7

Groomb. 2252 S.P.

B

...

...

...

35.1

51.9

57.6

3.5

...

...

...

3. 28. 51.91

52.24

15. 29. 43.66

+ 1.47

8

Carrington 504 ...

B

3.4

14.0

24.1

34.7

45.5

...

...

...

...

3. 32. 24.34

24.50

3. 33. 15.92

- 22.20

9

Lalande F. 2690 S.P.

B

53.5

1.6

9.1

17.4

25.5

...

...

...

...

3. 35. 9.42

9.87

15. 36. 1.29

+ 11.05

10

Lalande F. 2677 S.P.

B

...

...

59.1

6.0

27.2

34.5

41.5

55.8

...

...

...

3. 36. 27.21

27.57

15. 37. 18.99

+ 2.87

11

Piazzi III. 138 ...

B

33.2

35.9

38.1

43.2

45.9

48.2

55.8

58.3

3.4

3. 37. 48.32

48.86

3. 38. 40.28

- 4.58

12

B. D. + 52° No. 717

B

53.0

57.0

1.3

9.2

13.2

17.6

...

...

...

3. 43. 17.33

17.69

3. 44. 9.11

- 6.86

13

γ¹ Eridani

B

7.9

10.3

12.9

18.0

20.5

23.1

30.8

33.3

35.9

38.4

3. 52. 23.15

23.72

15.09

51.37

3. 53. 15.14

- 4.54

14

γ¹ Eridani (B&E)

B

31.4

46.7

1.9

17.1

32.4

47.8

3.0

...

...

...

3. 52. 23.19

23.76

15.09

51.33

.....

15

W. B. III. 1120 ...

B

...

...

33.3

38.2

40.7

43.2

50.9

53.5

...

...

...

3. 58. 43.35

43.92

3. 59. 35.34

- 4.56

16

θ Draconis S.P.

B

...

...

...

...

...

13.3

22.9

27.5

32.5

3. 59. 3.73

4.04

15. 59. 55.46

+ 0.95

17

Oeltz. Arg. (N.) 4558-9

B

...

31.1

34.9

42.7

46.6

50.4

2.0

5.8

9.8

...

4. 4. 50.48

50.84

4. 5. 42.26

- 6.85

18

Piazzi III. 259 ...

B

58.2

...

...

13.5

17.4

21.4

32.8

...

...

44.4

4. 5. 21.33

21.69

4. 6. 13.11

- 6.86

19

Groomb. 2324 S.P.

B

38.0

42.5

47.8

52.4

7.3

12.0

16.5

26.9

31.9

37.0

4. 8. 7.16

7.48

16. 8. 58.90

+ 1.16

20

56 Tauri

B

...

...

30.0

35.3

38.0

40.7

48.4

51.2

...

...

...

4. 12. 40.65

41.09

4. 13. 32.52

- 5.34

21

19 Ursæ Min. S.P.

B

...

...

...

...

...

30.2

40.6

50.9

52.8

4. 12. 48.96

49.35

16. 13. 40.78

+ 6.80

22

Groomb. 2338 S.P.

B

...

...

50.1

56.9

17.0

24.0

30.6

44.4

...

...

...

4. 17. 17.03

17.37

16. 18. 8.80

+ 3.28

23

Groombridge 827

B

...

...

27.1

41.8

49.0

56.7

18.0

25.6

...

...

...

4. 19. 56.52

56.81

4. 20. 48.24

- 10.73

24

η Draconis S.P.

B

...

...

...

...

41.5

47.0

52.1

2.6

7.5

13.0

4. 21. 41.59

41.91

16. 22. 33.34

+ 1.57

25

B. D. + 13° No. 694

B

...

...

...

...

...

...

51.9

54.1

56.5

59.7

4. 25. 44.20

44.67

4. 26. 36.10

- 5.11

26

* N.P.D. 76° 55' ..

B

...

...

...

2.0

4.7

7.2

14.9

...

...

...

4. 27. 7.25

7.72

4. 27. 59.15

- 5.11

27

* N.P.D. 77° 10' ..

B

48.9

51.2

54.0

59.1

1.3

4.0

11.4

14.0

16.2

19.1

4. 29. 3.96

4.43

4. 29. 55.86

- 5.11

28

B. D. + 12° No. 616

B

34.4

36.9

39.6

44.6

47.1

49.9

56.9

59.6

2.1

5.0

4. 30. 49.65

50.12

4. 31. 41.55

- 5.09

29

c¹ Tauri

B

18.6

21.1

23.6

28.7

31.1

33.7

41.1

43.9

46.1

48.8

4. 31. 33.71

34.18

4. 32. 25.61

- 5.10

30

B. D. + 8° No. 737

B

53.6

56.1

58.9

3.9

6.2

8.9

16.0

18.7

21.1

23.9

4. 35. 8.77

9.24

4. 36. 0.67

- 4.99

31

W. B. IV. 760 ...

B

...

...

...

...

...

...

37.6

40.0

42.6

45.2

4. 36. 30.21

30.69

4. 37. 22.12

- 4.97

32

B. D. + 7° No. 701

B

58.2

0.9

3.6

8.4

10.9

13.4

20.6

23.1

25.5

28.1

4. 37. 13.31

13.79

4. 38. 5.22

- 4.97

33

Flora

B

...

...

...

...

...

...

44.2

46.9

49.4

52.0

4. 41. 36.74

37.21

4. 42. 28.64

34

B. D. + 20° No. 840

B

...

...

36.7

42.0

44.5

47.3

55.1

57.9

...

...

...

4. 47. 47.30

47.74

4. 48. 39.17

- 5.39

35

B. D. + 23° No. 766

B

...

...

...

11.1

13.9

16.5

24.6

...

...

...

4. 48. 16.58

17.03

4. 49. 8.46

- 5.48

36

Piazzi IV. 242 ...

B

...

...

...

11.2

16.1

21.5

36.1

...

...

...

4. 53. 21.33

21.66

4. 54. 13.09

- 8.47

37

β Camelopardi ...

B

...

...

6.5

...

...

26.6

41.2

46.1

51.4

56.5

4. 53. 26.51

26.84

4. 54. 18.27

- 8.46

38

Groombridge 900

B

...

...

...

...

...

...

49.1

59.5

10.0

21.3

4. 54. 17.71

17.97

4. 55. 9.40

- 14.67

39

Groomb. 2419 S.P.

B

...

...

...

...

6.1

18.0

29.6

53.4

4.2

15.9

5. 0. 6.00

6.41

17. 0. 57.84

+ 9.14

40

Groomb. 2424 S.P.

B

42.0

52.1

2.0

12.0

...

...

...

...

...

5. 2. 40.76

41.15

17. 3. 32.58

+ 7.05

41

Groomb. 2429 S.P.

B

...

...

...

...

...

39.9

52.0

14.6

26.2

38.2

5. 4. 28.17

28.57

17. 5. 20.00

+ 9.15

42

Oeltz. Arg. (N.) 5680

B

25.0

30.2

35.7

46.2

51.6

57.1

12.9

18.3

24.0

29.4

5. 9. 57.12

57.45

5. 10. 48.88

- 8.99

43

Neptune

B

13.5

16.1

19.0

24.1

26.8

29.6

37.5

40.0

42.7

45.5

5. 12. 29.52

29.96

5. 13. 21.39

44

λ Leporis

B

44.1

46.7

49.4

54.1

56.9

59.6

6.9

9.5

12.1

14.6

5. 13. 59.43

59.99

5. 14. 51.42

- 4.49

45

Lalande 10143 ...

B

25.7

28.5

31.4

36.9

39.9

42.9

51.2

54.1

56.9

59.9

5. 19. 42.78

43.20

5. 20. 34.63

- 5.80

46

B. D. + 30° No. 899

B

27.6

30.2

33.3

38.9

41.7

44.7

53.1

56.0

58.9

1.9

5. 19. 44.67

45.09

5. 20. 36.52

- 5.80

47

Piazzi XVII. 139 S.P.

B

9.4

14.2

19.4

24.0

38.0

43.1

47.5

57.1

1.9

6.5

5. 23. 38.04

38.35

17. 24. 29.78

+ 1.44

48

Piazzi V. 125

B

25.4

28.0

30.8

36.0

38.5

41.4

49.1

51.8

54.3

57.3

5. 26. 41.30

41.74

5. 27. 33.18

- 5.39

49

121 Tauri

B

3.5

6.0

8.7

14.1

16.8

19.6

27.6

30.1

32.9

35.9

5. 28. 19.56

20.00

5. 29. 11.44

- 5.53

50

ε Orionis

B

54.0

56.3

59.0

4.0

6.2

8.9

16.1

18.6

21.3

23.9

5. 30. 8.87

9.38

0.86

51.48

5. 31. 0.82

- 4.73

51

Mars 1 L.

B

47.5

50.1

52.9

58.4

1.3

3.9

12.0

14.6

17.5

20.2

5. 31. 3.87

5. 31. 56.46

52

Mars 2 L.

B

48.9

51.6

54.3

59.9

2.5

5.1

13.4

16.1

18.9

21.8

5. 31. 5.29

5. 31. 56.46

53

Radcliffe 1532 ...

B

...

...

...

...

...

...

14.0

16.9

20.1

23.6

5. 33. 4.54

4.94

5. 33. 56.38

- 6.27

54

25 Camelopardi ...

B

12.9

16.9

21.5

30.0

34.1

38.6

51.2

55.5

59.8

4.3

5. 34. 38.54

38.89

5. 35. 30.33

- 7.78

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 14, — 114^s.03.

7, 12, 25, 26, 27, 28, 30, 31, 32. Observed in dark field with wires illuminated.
8. Observed over wire T with the transit-micrometer set to readings 34^r.600, 35^r.100, 35^r.600, 36^r.100, 36^r.600.
9. Observed over wire T with the transit-micrometer set to readings 36^r.600, 36^r.100, 35^r.600, 35^r.100, 34^r.600.
51. A correction of — 0^s.01, for defect of illumination, has been applied in forming the concluded transit.
21. Observed over wires Q, P, O and N.

1898 JAN 58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[217]

M. T. H.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Nov. 30	1	Groombridge 1033	B	11'9	16'2	20'7	...	...	38'2	...	55'7	0'4	4'8	5. 47. 38'31	+ 2'70	38'66			51'39	5. 48. 30'10	- 7'94
	2	Oeltz. Arg. (N.) 6311	B	30'7	35'3	39'6	...	...	57'6	...	15'0	19'1	23'9	5. 47. 57'35	(+ 0'70)	57'70			[+ 0'20]	5. 48. 49'14	- 7'95
	3	Groombridge 1036	B	...	...	26'5	35'1	39'7	44'1	57'0	1'8	...	...	5. 48. 44'12	[+ 5'74]	44'47				5. 49. 35'91	- 7'94
	4	Groombridge 1030	B	...	...	32'2	51'6	1'4	11'8	41'1	50'5	...	...	5. 50. 11'63		11'89				5. 51. 3'33	- 14'40
	5	Radcliffe 1604	B	...	...	...	...	...	32'0	42'5	46'1	49'5	53'1	5. 52. 32'11		32'50				5. 53. 23'94	- 6'77
	6	Groombridge 1058	B	...	...	...	...	...	...	3'5	6'9	10'6	14'2	5. 52. 53'14		53'53				5. 53. 44'97	- 6'77
	7	Juno	B	36'4	38'9	41'4	46'1	48'7	51'3	58'7	1'0	3'6	6'1	6. 0. 51'26		51'77				6. 1. 43'21	
	8	Lalande 11608	B	31'3	34'9	...	...	...	53'9	...	...	12'3	16'1	6. 2. 53'73		54'10				6. 3. 45'54	- 7'09
	9	41 Aurigæ	B	...	...	38'8	46'1	50'0	...	4'9	8'6	...	...	6. 2. 53'77		54'14				6. 3. 45'58	- 7'09
	10	δ Ursæ Min. S.P.	B	41'5	45'6	49'9	54'1	17'2	22'0	26'1	30'2	46'0	51'1	6. 4. 15'68		16'37	7'29	50'92		18. 5. 7'81	+ 43'36
	11	Groombridge 1109	B	...	...	...	...	...	...	0'0	4'5	9'3	14'0	6. 6. 46'79		47'14				6. 7. 38'58	- 8'06
	12	Lalande 11947	B	29'5	32'0	34'4	39'3	41'8	44'2	51'6	54'1	56'5	59'1	6. 9. 44'29		44'79				6. 10. 36'23	- 4'74
	13	Groombridge 2539 S.P.	B	...	...	...	...	59'0	3'6	8'0	16'9	21'4	25'1	6. 11. 58'85		59'15				18. 12. 50'59	+ 1'12
	14	Groombridge 1126	B	...	...	40'2	4'1	16'2	28'9	4'6	16'9	...	...	6. 16. 28'72		28'97				6. 17. 20'41	- 16'86
	15	Bradley 932	B	...	...	...	...	...	...	36'0	38'4	40'9	43'5	6. 17. 28'62		29'11				6. 18. 20'55	- 4'81
	16	Vesta	B	...	...	...	...	...	...	...	46'2	2'1	...	6. 23. 14'88		15'32				6. 24. 6'76	
	17	W. B. (2) VI. 835	B	42'3	44'9	47'6	52'7	55'5	58'0	5'5	8'1	10'7	13'2	6. 29. 57'89		58'35				6. 30. 49'79	- 5'16
	18	γ Geminorum	B	40'0	42'5	45'1	50'1	52'9	55'5	3'1	5'7	8'1	10'9	6. 30. 55'43		55'89	47'36	51'47		6. 31. 47'33	- 5'16
	19	Sirius	B	30'6	33'1	35'9	40'9	43'5	46'0	53'6	56'2	59'0	1'6	6. 39. 46'08		46'66				6. 40. 38'11	- 4'19
	20	Bradley 2370 S.P.	B	...	45'5	50'9	56'0	11'2	16'7	21'3	31'5	36'7	...	6. 42. 11'13		11'44				18. 43. 2'89	+ 1'76
	21	Oeltz. Arg. (N.) 7369	B	44'0	47'5	51'3	58'2	1'9	5'5	...	...	...	...	6. 48. 5'50		5'88				6. 48. 57'33	- 6'76
	22	θ Canis Majoris	B	...	...	...	28'7	31'1	33'9	41'1	43'8	46'1	48'9	6. 48. 33'73		34'28	25'71	51'43		6. 49. 25'73	- 4'29
	23	Cephei 51	B	28'4	33'3	37'7	42'6	48'0	57'6	3'0	8'7	13'5	18'8	6. 51. 53'16		53'05	44'13	51'08		6. 52. 44'50	- 58'80
	24	ε Canis Majoris	B	27'1	29'9	32'9	38'2	41'1	44'0	52'2	55'2	58'1	1'1	6. 53. 44'02		44'67	36'14	51'47		6. 54. 36'12	- 3'89
	25	Lacaille 2570	B	...	...	...	55'5	58'5	1'4	9'5	12'1	14'9	17'6	6. 56. 1'29		1'91				6. 56. 53'36	- 3'97
	26	Piazzi VI. 311	B	...	55'5	58'1	3'4	6'0	8'7	16'5	19'2	21'8	...	6. 57. 8'70		9'14				6. 58. 0'59	- 5'24
	27	ζ Geminorum	B	54'1	56'4	59'3	4'2	7'0	9'6	17'4	20'1	22'9	25'6	6. 57. 9'70		10'14	1'65	51'51		6. 58. 1'59	- 5'24
	28	γ Canis Majoris	B	59'9	2'4	5'1	10'1	12'6	15'2	22'9	25'3	28'0	30'7	6. 58. 15'26		15'83	7'31	51'48		6. 59. 7'28	- 4'18
	29	Groombridge 3199 S.P.	H	30'0	34'2	39'2	44'0	58'3	3'5	8'2	17'3	22'5	28'0	8. 24. 58'45		58'77			51'15	20. 25. 49'99	+ 0'53
	30	Groombridge 1464	H	50'1	53'4	57'0	3'6	6'9	10'1	20'0	23'4	26'6	30'0	8. 32. 10'16		10'55				8. 33. 1'77	- 5'73
	31	Groombridge 3262 S.P.	H	28'8	32'9	37'1	42'0	54'1	58'8	3'3	11'9	15'6	20'1	8. 36. 54'39		54'69				20. 37. 45'91	- 0'19
	32	α Cancri	H	45'5	48'0	50'6	55'5	58'1	0'7	8'1	10'7	13'3	16'0	8. 52. 0'69		1'16	52'38	51'22		.....	
	33	Lalande 17835	H	36'7	39'1	41'7	...	...	51'6	...	1'3	3'9	6'3	8. 55. 51'53		52'04				8. 56. 43'26	- 4'07
	34	Piazzi XXI. 142 S.P.	H	...	...	...	...	24'4	30'7	36'0	46'7	53'0	58'9	9. 19. 24'82		25'14				21. 20. 16'37	+ 0'28
	35	Groombridge 3478 S.P.	H	...	...	...	...	30'5	43'5	52'9	13'8	24'6	35'2	9. 22. 32'54		32'92				21. 23. 24'15	+ 3'67
	36	9 Cephei S.P.	H	...	...	...	...	...	22'2	27'5	37'8	43'2	48'0	9. 34. 17'01		17'33				21. 35. 8'56	- 0'32
	37	Groombridge 3561 S.P.	H	...	23'9	...	34'5	47'5	52'8	57'2	...	11'6	...	9. 38. 47'82		48'13				(21. 39. 39'36)	- 0'71
	38	μ Leonis	H	47'1	49'9	52'8	58'1	0'9	3'8	12'0	14'6	17'5	20'3	9. 46. 3'74		4'17	55'34	51'17		.....	
	39	Groombridge 1598	H	20'9	24'5	28'6	36'1	40'1	44'1	55'9	59'8	3'5	7'9	9. 55. 44'20		44'56				9. 56. 35'79	- 5'29
	40	19 Cephei S.P.	H	...	...	45'2	50'4	6'0	11'4	16'7	26'9	...	...	10. 1. 6'00		6'32				22. 1. 57'55	- 0'86
	41	λ Cephei S.P.	H	...	...	...	...	8'2	...	18'8	28'0	33'0	37'1	10. 7. 8'76		9'07				22. 8. 0'30	- 1'24
	42	γ ¹ Leonis	H	10'9	13'5	...	21'3	24'0	26'7	34'5	...	40'0	42'5	10. 13. 26'72		27'16	18'40	51'24		.....	
	43	ρ Leonis	H	17'1	19'5	22'0	26'9	29'5	32'1	39'5	42'0	44'6	47'1	10. 26. 32'07		32'55	23'83	51'28		.....	
	44	Jupiter 1 L.	H	55'9	...	0'8	...	...	10'9	...	20'8	...	25'8	10. 44. 10'84		12'63				10. 45. 3'87	
	45	Jupiter 2 L.	H	58'5	...	3'4	...	...	13'5	...	23'3	...	28'5	10. 44. 13'46							
	46	δ 2 L.	AC	...	...	40'0	45'1	47'8	50'4	58'2	0'7	3'5	6'1	13. 16. 50'43		51'00			51'43	13. 16. 32'26	
	47	Polaris S.P.	AC	22'8	30'0	37'5	46'0	10'9	19'4	31'3	42'1	52'2	2'7	13. 20. 51'83		53'18	41'71	48'53		1. 21. 44'72	- 47'86
	48	Arcturus	R. AC	49'5	52'1	54'6	0'0	2'5	5'4	...	...	...	...	14. 10. 5'24		5'60	57'14	51'54		.....	
	49	α Coronæ	AC	10'0	12'7	15'5	21'1	23'9	26'5	34'8	37'6	40'3	43'2	15. 29. 26'60		27'03	18'59	51'56		.....	
Dec. 3	50	Venus 1 L.	WB	36'7	39'4	42'2	47'5	50'0	52'9	1'0	3'6	6'5	9'4	19. 21. 52'96	(- 1'77)	53'64			51'69	19. 22. 45'99	
	51	Polaris	WB	8'1	21'3	34'1	40'6	51'9	57'2	10'4	16'4	29'4	35'1	1. 20. 58'64	[+ 7'24]	49'08	40'39	51'31	51'83	1. 21. 40'92	- 46'54
	52	β Arietis	WB	50'1	52'6	55'4	0'7	3'3	6'0	13'9	16'3	19'1	22'0	1. 48. 5'98		6'32	58'14	51'82		.....	
	53	α Arietis	WB	14'9	17'6	20'2	25'8	28'2	31'1	39'0	41'8	44'3	47'3	2. 0. 31'06		31'40	23'25	51'85		.....	

Corrections for passage of Semidiameter, Nos. 46 and 50, — 70° 30 and + 0° 55.

10. Observed over wire T with the transit-micrometer set to readings 34'999, 34'880, 34'780, 34'680, 34'580, 34'480, 34'380, 34'280, 34'180, 34'080, 33'980, 33'880, 33'780, 33'680, 33'580, 33'480, 33'380, 33'280, 33'180, 33'080, 32'980, 32'880, 32'780, 32'680, 32'580, 32'480, 32'380, 32'280, 32'180, 32'080, 31'980, 31'880, 31'780, 31'680, 31'580, 31'480, 31'380, 31'280, 31'180, 31'080, 30'980, 30'880, 30'780, 30'680, 30'580, 30'480, 30'380, 30'280, 30'180, 30'080, 29'980, 29'880, 29'780, 29'680, 29'580, 29'480, 29'380, 29'280, 29'180, 29'080, 28'980, 28'880, 28'780, 28'680, 28'580, 28'480, 28'380, 28'280, 28'180, 28'080, 27'980, 27'880, 27'780, 27'680, 27'580, 27'480, 27'380, 27'280, 27'180, 27'080, 26'980, 26'880, 26'780, 26'680, 26'580, 26'480, 26'380, 26'280, 26'180, 26'080, 25'980, 25'880, 25'780, 25'680, 25'580, 25'480, 25'380, 25'280, 25'180, 25'080, 24'980, 24'880, 24'780, 24'680, 24'580, 24'480, 24'380, 24'280, 24'180, 24'080, 23'980, 23'880, 23'780, 23'680, 23'580, 23'480, 23'380, 23'280, 23'180, 23'080, 22'980, 22'880, 22'780, 22'680, 22'580, 22'480, 22'380, 22'280, 22'180, 22'080, 21'980, 21'880, 21'780, 21'680, 21'580, 21'480, 21'380, 21'280, 21'180, 21'080, 20'980, 20'880, 20'780, 20'680, 20'580, 20'480, 20'380, 20'280, 20'180, 20'080, 19'980, 19'880, 19'780, 19'680, 19'580, 19'480, 19'380, 19'280, 19'180, 19'080, 18'980, 18'880, 18'780, 18'680, 18'580, 18'480, 18'380, 18'280, 18'180, 18'080, 17'980, 17'880, 17'780, 17'680, 17'580, 17'480, 17'380, 17'280, 17'180, 17'080, 16'980, 16'880, 16'780, 16'680, 16'580, 16'480, 16'380, 16'280, 16'180, 16'080, 15'980, 15'880, 15'780, 15'680, 15'580, 15'480, 15'380, 15'280, 15'180, 15'080, 14'980, 14'880, 14'780, 14'680, 14'580, 14'480, 14'380, 14'280, 14'180, 14'080

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GGA.M.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1890.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
				h	m	s															
Dec. 3	1	Piazzi XIV. 24 S.P.	WB	23.6	28.5	33.4	38.1	52.1	57.5	2.1	11.9	16.4	21.2	2. 6. 52.41	+ 2.70	53.01			51.83		
	2	Groombridge 1119	CD	47.0	57.4	9.3	21.8	31.3	38.1	57.4	7.4	27.4	36.9	7. 55. 15.11	(+ 1.77)	3.92			[+ 0.14]	14. 7. 44.85	
	3	6 Cancri	CD	4.1	7.0	9.9	15.5	18.1	21.1	29.5	32.1	35.0	38.0	7. 56. 21.07	[+ 7.24]	21.37	13.22	51.85	51.79	7. 55. 55.76	
	4	α Hydræ	OD	25.0	27.6	30.0	35.0	37.5	40.0	47.4	50.0	52.5	55.1	9. 21. 40.05		40.59	32.41	51.82		.....	
	5	Polaris S.P.	B	40.6	12.6	22.4	38.9	5.2	27.8	37.4	57.2	12.4	21.8	13. 20. 37.59	(- 2.27)	48.96	40.12	51.16	51.84	1. 21. 40.88	
Dec. 4	6	η Capricorni	B	24.0	26.6	29.3	34.5	37.1	40.0	47.6	50.2	52.9	55.6	20. 57. 39.82		40.45				20. 58. 32.41	
	7	θ Capricorni	B	1.1	3.7	6.3	11.5	14.0	16.7	24.2	26.9	29.6	32.2	20. 59. 16.66		17.26	9.30	52.04		.....	
	8	ν Aquarii	B	51.1	53.8	56.1	1.1	3.7	6.3	13.9	16.3	18.9	21.5	21. 3. 6.31		6.86				21. 3. 58.82	
	9	ζ Cygni	B	23.1	26.0	28.9	34.5	37.4	40.2	48.7	51.6	54.5	57.5	21. 7. 40.28		40.53	32.57	52.04		.....	
	10	30 Capricorni ...	B	2.4	4.9	7.6	12.9	15.6	18.1	25.7	28.2	30.9	33.9	21. 11. 18.06		18.66				21. 12. 10.62	
	11	33 Capricorni ...	B	10.5	13.2	16.0	21.2	23.9	26.5	34.2	37.1	39.8	42.4	21. 17. 26.52		27.15				21. 18. 19.11	
	12	ζ Capricorni	B	...	...	43.9	49.4	51.9	54.5	2.5	5.2	...	...	21. 19. 54.62		55.28				21. 20. 47.24	
	13	35 Capricorni ...	B	15.8	18.4	21.3	26.5	29.1	32.0	39.8	42.3	45.1	48.0	21. 20. 31.87		32.50				21. 21. 24.46	
	14	δ Capricorni	B	42.2	45.1	47.8	53.0	55.8	58.6	6.4	9.0	11.7	14.4	21. 21. 58.44		59.08				21. 22. 51.04	
	15	β Aquarii	B	0.9	3.4	5.9	10.6	13.1	15.8	23.1	25.5	28.0	30.5	21. 25. 15.72		16.23	8.11	51.88		.....	
	16	37 Capricorni ...	B	55.6	58.1	0.9	6.1	8.8	11.5	19.4	22.0	24.8	27.3	21. 28. 11.49		12.12				21. 29. 4.09	
	17	ϵ Capricorni	B	10.4	13.0	15.8	21.0	23.7	26.2	34.0	36.7	39.4	42.0	21. 30. 26.26		26.88				21. 31. 18.85	
	18	γ Capricorni	B	15.1	17.7	20.1	25.2	28.0	30.6	38.1	40.7	43.5	46.1	21. 33. 30.55		31.15				21. 34. 23.12	
	19	κ Capricorni	B	46.1	48.9	51.5	56.6	59.4	2.0	9.7	12.2	14.9	17.8	21. 36. 1.95		2.57				21. 36. 54.54	
	20	ϵ^1 Capricorni	B	23.3	25.8	28.1	33.1	35.7	38.2	45.7	48.2	50.8	53.4	21. 38. 38.27		38.80				21. 39. 30.77	
	21	δ Capricorni	B	...	...	...	23.8	26.1	28.9	36.5	39.1	41.8	44.2	21. 40. 28.87		29.46	21.42	51.96		.....	
	22	μ Capricorni	B	33.2	35.6	38.1	43.1	45.9	48.4	56.0	58.5	1.1	3.8	21. 46. 48.41		48.98				21. 47. 40.95	
	23	Bradley 2870...R.	B	42.0	44.2	...	51.8	54.1	56.9	4.1	...	9.2	11.9	21. 51. 56.82		57.49				21. 52. 49.46	
	24	α Aquarii	B	52.0	54.3	57.0	1.9	4.2	6.9	14.0	16.5	19.1	21.6	21. 57. 6.79		7.27				21. 59. 59.24	
	25	α Aquarii	B	22.2	24.5	27.1	32.1	34.5	37.1	44.5	46.9	49.5	52.0	21. 59. 37.08		37.73	29.66	51.93		.....	
	26	λ Ursæ Maj. S.P.	B	41.5	45.0	48.2	52.0	...	5.5	8.6	15.7	18.9	22.2	22. 10. 1.91		2.34				10. 10. 54.31	
	27	Bradley 1429 S.P...R.	B	15.3	21.6	28.0	34.0	...	...	...	...	...	...	22. 15. 52.00		52.43				10. 16. 44.40	
	28	Bradley 1429 S.P....	B	...	...	...	...	...	58.0	4.1	16.0	22.2	28.1	22. 15. 51.68		52.47				10. 16. 44.44	
	29	Bradley 1446 S.P...R.	B	28.6	39.1	50.1	0.2	...	...	...	...	...	...	22. 25. 30.93		31.37				10. 26. 23.34	
	30	Bradley 1446 S.P....	B	...	...	...	...	30.5	40.6	51.6	12.0	22.8	33.1	22. 25. 30.52		31.76				10. 26. 23.73	
	31	Groombridge 3887...R.	B	42.4	57.6	14.0	44.5	0.2	16.0	2.0	17.5	33.3	49.3	22. 38. 15.91		16.38				22. 39. 8.35	
	32	λ Aquarii	B	7.4	9.9	12.4	17.5	20.0	22.3	29.9	32.2	34.7	37.4	22. 46. 22.41		22.93	14.84	51.91		.....	
	33	Bradley 3038	B	...	...	...	...	...	56.0	15.2	34.6	54.1	22. 47. 59.20		57.66					22. 48. 49.63	
	34	Groombridge 3951	B	21.1	24.5	28.0	34.8	38.0	41.6	51.8	55.1	58.5	2.1	22. 55. 41.60		41.73				22. 56. 33.70	
	35	Groombridge 3955	B	57.4	0.6	4.1	10.9	14.1	17.9	27.8	31.2	34.6	38.2	22. 56. 17.73		17.86				22. 57. 9.86	
	36	Groombridge 3961	B	50.0	53.3	56.7	3.5	6.9	10.2	20.3	23.9	27.3	30.8	22. 57. 10.34		10.47				22. 58. 2.44	
	37	Oeltz Arg. (N.) 11599 S.P.	B	4.1	10.9	17.8	24.8	45.1	52.0	59.1	12.4	19.1	26.1	23. 4. 45.04		45.90				11. 5. 37.87	
	38	Piazzi XI. 43 S.P...R.	B	17.9	23.6	29.8	35.9	52.9	58.9	4.5	16.1	22.0	27.5	23. 15. 52.82		53.26				11. 16. 45.24	
	39	κ Piscium	B	32.5	35.1	37.5	42.2	44.6	47.1	54.5	57.0	59.5	2.0	23. 20. 47.24		47.69	39.65	51.96		.....	
	40	14 Andromedæ ...	B	...	...	8.9	15.1	18.1	21.5	30.9	34.0	...	...	23. 25. 21.47		21.65				23. 26. 13.63	
	41	15 Andromedæ ...	B	24.0	27.0	30.2	36.8	40.0	43.3	52.6	56.0	59.1	2.3	23. 28. 43.18		43.34				23. 29. 35.32	
	42	λ Andromedæ ...	B	...	...	25.1	32.1	35.7	39.4	50.0	53.5	...	...	23. 31. 39.37		39.48				23. 32. 31.46	
	43	ϵ Andromedæ ...	B	...	...	59.8	6.3	9.7	12.9	23.0	26.3	...	...	23. 32. 13.07		13.20				23. 33. 5.18	
	44	κ Andromedæ ...	B	7.5	10.9	14.5	21.1	24.5	...	38.2	41.7	45.0	48.6	23. 34. 28.06		28.19				23. 35. 20.17	
	45	Bradley 95	B	37.9	43.8	49.5	58.2	...	...	...	...	...	...	0. 57. 58.77		55.05			51.98	0. 58. 47.04	
	46	β Andromedæ ...	B	30.2	48.4	51.5	54.5	0.4	...	...	...	...	42.7	1. 3. 6.54		6.75	58.80	52.05		.....	
	47	Piazzi I. 35	B	4.7	9.2	14.1	...	...	32.5	...	50.6	55.4	0.1	1. 12. 32.41		32.37				1. 13. 24.36	
	48	ϕ Cassiopeiæ	B	17.6	22.0	26.7	...	...	...	...	3.7	8.5	13.1	1. 12. 45.32		45.28				1. 13. 37.27	
	49	ψ Cassiopeiæ	B	10.1	16.6	23.1	36.1	42.2	49.1	...	...	...	...	1. 17. 49.01		48.74				1. 18. 40.73	
	50	δ Cassiopeiæ	B	...	...	...	4.0	8.8	14.0	28.3	33.3	38.2	43.3	1. 18. 13.88		13.80				1. 19. 5.79	
	51	Polaris	B	18.7	24.2	30.1	35.2	47.2	12.1	23.5	28.9	35.5	40.9	1. 20. 59.63		48.84	39.85	51.01		1. 21. 40.83	
	52	51 Andromedæ ...	B	27.0	30.7	34.5	41.9	45.4	49.4	0.2	4.0	7.6	11.5	1. 30. 49.28		49.36				1. 31. 41.35	
	53	χ Andromedæ ...	B	58.9	2.0	5.6	12.5	15.9	19.4	...	...	...	...	1. 32. 19.35		19.48				1. 33. 11.47	

2. Observed over wire T with the transit-micrometer set to readings 33° 147, 33° 233, 33° 310, 33° 392, 34° 469, 33° 526, 33° 684, 33° 742, 33° 900, 33° 944.

5. Observed over wire T with the transit-micrometer set to readings 37° 670, 37° 379, 37° 311, 37° 160, 36° 910, 36° 705, 36° 652, 36° 470, 36° 370, 36° 272.

53, 39, 44, 45, 46, 47. Cloudy.

45. Observed in dark field with wires illuminated over wire T with the transit-micrometer set to readings 37° 987, 38° 086, 39° 729, 39° 921.

46. Observed over wires N, O, P, Q, R and Y.

51. Observed over wire T with the transit-micrometer set to readings 35° 250, 35° 300, 35° 350, 35° 400, 35° 500, 35° 700, 35° 800, 35° 850, 35° 900, 35° 950.

MONTH AND DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Dec. 4	1	τ Andromedæ.....	B	...	...	...	...	...	...	48.4	51.8	55.0	58.2	1. 32. 38.92	+ 2.70	39.08			51.98	1. 33. 31.07	- 4.78
	2	54 Andromedæ....	B	...	2.1	6.0	13.7	17.5	21.5	32.9	36.7	40.6	...	1. 36. 21.46	(- 2.27)	21.52			[+ 0.14]	1. 37. 13.51	- 5.11
	3	γ ¹ Andromedæ....	B	24.0	27.2	30.5	37.2	40.3	43.8	...	...	...	...	1. 56. 43.80	[+ 7.24]	43.95				1. 57. 35.94	- 5.10
	4	γ ² Andromedæ....	B	24.6	28.0	31.4	38.0	41.2	44.7	...	...	...	...	1. 56. 44.62		44.77				1. 57. 36.76	- 5.10
	5	θ Persei.....	B	56.9	...	...	11.9	15.6	19.4	...	34.3	38.1	...	2. 36. 19.44		19.51				2. 37. 11.51	- 5.91
Dec. 5	6	θ Aquilæ.....	WS	51.6	54.0	56.5	1.4	3.9	6.2	13.9	16.2	18.7	21.3	20. 5. 6.41	[+ 6.33]	6.83	58.87	52.04	51.98	.....	
	7	γ Cygni.....	WS	19.4	22.2	25.6	32.1	35.4	38.6	48.0	51.3	54.4	58.0	20. 17. 38.55		38.69			[+ 0.14]	20. 18. 30.79	- 1.09
	8	41 Cygni.....	WS	1.1	3.9	6.6	12.3	15.2	18.1	26.3	29.3	32.1	35.3	20. 24. 18.06		18.29				20. 25. 10.39	- 1.66
	9	ε Delphini.....	WS	9.6	12.0	14.5	19.5	22.1	24.7	32.0	34.4	37.0	39.6	20. 27. 24.58		24.92	16.98	52.06		.....	
	10	ε Aquarii.....	WS	58.0	0.5	3.1	8.0	10.6	13.1	20.5	23.1	25.7	28.1	20. 41. 13.11		13.59	5.71	52.12		.....	
	11	θ Capricorni.....	WS	1.1	3.8	6.2	11.4	14.0	16.5	24.4	26.9	29.5	32.1	20. 59. 16.63		17.17	9.29	52.12		.....	
	12	ζ Cygni.....	WS	...	...	...	...	...	...	48.6	51.5	54.1	57.2	21. 7. 40.12		40.35	32.56	52.21		.....	
	13	α Equulei.....	WS	32.9	35.4	37.9	42.7	45.1	48.0	54.9	57.5	0.0	2.5	21. 9. 47.73		48.11	40.23	52.12		.....	
	14	Groombridge 3548	WS	47.9	55.2	11.6	16.6	27.5	36.2	42.5	59.2	4.1	15.9	21. 19. 3.33		0.18				21. 19. 52.28	+ 28.23
	15	β Aquarii.....	WS	0.5	3.0	5.5	10.5	12.9	15.5	22.9	25.4	28.0	30.3	21. 25. 15.49		15.95	8.10	52.15		.....	
	16	16 Pegasi.....	WS	...	...	...	...	...	...	38.0	40.4	43.4	46.1	21. 47. 29.75		30.00	22.18	52.18		.....	
	17	ι Pegasi.....	R. WS	3.8	6.6	9.3	...	...	...	...	...	...	...	22. 1. 20.18		20.74	12.72	51.98		.....	
	18	θ Aquarii.....	WS	16.4	18.9	21.5	26.4	28.9	31.4	39.0	41.4	44.0	46.5	22. 10. 31.48		31.95	24.07	52.12		.....	
	19	γ Aquarii.....	WS	...	...	18.1	22.9	25.3	28.0	35.1	37.7	...	...	22. 15. 27.90		28.33	20.29	51.96		.....	
	20	28 Cephei.....	R. WS	47.3	59.6	12.1	35.8	48.1	0.6	...	...	...	...	22. 25. 0.40		1.02				22. 25. 53.13	+ 2.34
	21	28 Cephei.....	WS	...	...	...	...	...	...	49.6	2.0	14.4	22. 25. 1.62		0.90					22. 25. 53.01	+ 2.34
	22	Bradley 1672 S.P.	WS	7.5	14.0	19.4	26.6	34.5	41.5	47.6	53.1	59.9	5.5	0. 13. 22.67		29.54			52.12	12. 14. 21.66	- 0.21
	23	44 Piscium.....	WS	0.8	3.1	5.9	10.8	13.2	15.7	22.9	25.4	28.0	30.5	0. 19. 15.67		16.07	8.17	52.10		.....	
	24	28 Andromedæ....	WS	32.5	35.3	38.1	43.9	46.6	49.6	58.0	0.6	3.4	6.5	0. 23. 49.49		49.74				0. 24. 41.86	- 3.90
	25	Carrington 60....	WS	...	...	...	23.8	46.0	46.3	6.2	28.5	48.9	0. 26. 45.82		44.43					0. 27. 36.55	- 5.61
	26	β Ceti.....	WS	18.0	20.5	23.1	28.2	30.9	33.6	41.2	44.0	46.6	49.1	0. 37. 33.56		34.11	26.28	52.17		.....	
	27	Groombridge 147	WS	43.3	51.1	58.6	13.1	20.6	28.1	50.0	57.8	5.1	12.5	0. 42. 28.13		27.82				0. 43. 19.94	- 4.85
	28	Carrington 124....	WS	34.0	45.7	0.7	5.9	11.6	29.9	35.8	40.5	56.9	10.5	0. 51. 44.26		42.58				0. 52. 34.71	- 8.88
	29	Bradley 95.....	WS	34.0	39.5	48.9	11.4	16.7	31.8	37.5	50.8	56.1	18.7	0. 57. 57.52		54.39				0. 58. 46.52	- 14.39
	30	Polaris.....	WS	24.6	47.4	8.8	33.7	18.0	40.5	5.9	30.5	...	...	1. 20. 56.18		47.09	39.27	52.18		.....	
Dec. 6	31	ζ Cygni.....	B	23.1	26.0	28.8	34.3	37.2	40.1	48.5	51.4	54.2	57.2	21. 7. 40.12	(- 1.56)	40.46	32.55	52.09	51.95	.....	
	32	ζ Cygni.....(E&E)	B	52.1	9.4	26.5	43.6	0.7	17.8	34.8	...	...	...	21. 7. 40.20	[+ 8.50]	40.54	32.55	52.01	[+ 0.14]	.....	
	33	ε Pegasi.....	B	59.8	2.2	4.8	9.9	12.2	14.9	22.2	24.9	27.4	30.0	21. 38. 14.87		15.35	7.43	52.08		.....	
	34	ε Pegasi.....(E&E)	B	33.0	48.0	3.2	18.4	33.5	48.5	3.6	...	...	...	21. 38. 14.90		15.38	7.43	52.05		.....	
	35	δ Capricorni.....	B	13.1	15.8	18.2	23.4	26.0	28.6	36.2	38.9	41.4	44.1	21. 40. 28.61		29.30	21.40	52.10		.....	
	36	16 Pegasi.....	B	13.4	16.0	18.8	24.1	27.0	29.8	37.9	40.5	43.5	46.1	21. 47. 29.75		30.11	22.17	52.06		.....	
	37	Polaris.....	B	17.6	24.9	32.0	37.9	16.1	27.5	37.6	53.3	59.9	5.9	1. 20. 57.98		46.57	38.63	52.06		.....	
Dec. 7	38	Groombridge 175	CD	48.1	7.2	26.1	44.0	2.9	40.0	59.4	18.0	36.6	56.0	0. 58. 21.83	+ 2.15	17.69			52.41	0. 59. 10.11	- 18.92
	39	ζ Piscium.....	CD	...	...	...	...	26.9	29.4	36.9	39.4	41.9	44.2	1. 7. 29.45	(- 1.43)	(29.79)			[+ 0.16]	.....	
	40	ζ Piscium.....	CD	...	...	...	...	28.2	30.8	38.1	40.6	43.2	45.6	1. 7. 30.75	[+ 5.87]	31.09				1. 8. 23.51	- 4.21
	41	Polaris.....	CD	58.0	5.8	13.5	20.9	26.9	33.1	39.2	45.0	52.4	59.6	1. 20. 55.25		47.39	37.92	50.53		1. 21. 39.81	- 44.07
	42	40 Cassiopeiae.....	CD	...	...	...	...	...	...	51.4	59.7	8.0	16.2	1. 29. 27.06		26.78				1. 30. 19.20	- 6.72
	43	α Arietis.....	CD	14.5	17.1	19.9	25.1	27.9	30.4	38.5	41.3	44.0	46.7	2. 0. 30.58		30.85	23.24	52.39		.....	
	44	Piazzi XIV. 24 S.P.	CD	23.5	28.2	33.2	38.0	52.3	57.2	2.0	...	...	...	2. 6. 52.25		52.75				14. 7. 45.17	- 0.93
	45	Lalande 4536.....	CD	...	...	...	...	...	...	41.1	44.0	46.4	49.4	2. 21. 33.12		33.39				2. 22. 25.82	- 4.88
	46	Carrington 2171 S.P.	CD	...	...	...	...	42.5	59.6	14.9	46.3	2.1	18.1	2. 25. 42.83		44.17				14. 26. 36.60	+ 6.72
	47	Carrington 2193 S.P.	CD	...	...	...	12.9	13.5	33.5	54.0	...	...	...	2. 32. 13.05		14.72				14. 33. 7.15	+ 10.16
	48	Carrington 364....	CD	...	...	...	...	46.0	56.6	40.2	25.1	9.6	...	2. 35. 47.34		44.50				2. 36. 36.93	- 33.58
	49	ε Arietis.....	CD	...	...	...	...	25.4	28.1	36.0	38.6	41.2	44.0	2. 52. 28.12		28.39	20.79	52.40		.....	
	50	Carrington 6... (E&E)	CD	39.0	10.0	29.0	54.0	15.0	0.0	19.0	42.0	5.0	22.0	3. 12. 29.94		58.86				3. 12. 51.29	- 370.64
	51	Oeltz. Arg. (N.) 3781	CD	0.5	4.1	8.0	15.3	19.1	22.9	34.1	37.9	41.7	45.4	3. 19. 22.96		23.06				3. 20. 15.49	- 6.38

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 32, 34, and 50, — 123^m.39 : — 123^m.44 : and — 65^m.56.

December 7^d. 2^h. Clock Hardy put back 1^m.

1, 3, 4, 5. Cloudy.

14, 25, 28. Very faint.

14. Observed over wire R with the transit-micrometer set to readings 34^r.401, 34^r.555, 34^r.935, 35^r.070, 35^r.327, 35^r.560, 35^r.670, 36^r.095, 36^r.203, 36^r.483.
 22. Observed over wire T with the transit-micrometer set to readings 38^r.793, 38^r.710, 35^r.623, 35^r.542, 35^r.434, 35^r.388, 35^r.299, 35^r.210, 35^r.155, 35^r.097.
 28. Observed over wire U with the transit-micrometer set to readings 34^r.748, 35^r.247, 35^r.867, 36^r.072, 36^r.320, 37^r.062, 37^r.310, 37^r.473, 38^r.220, 38^r.783.
 29. Very faint; cloudy; scarcely visible. Observed over wire U with the transit-micrometer set to readings 36^r.400, 36^r.633, 36^r.780, 37^r.303, 37^r.440, 37^r.755, 37^r.945, 38^r.204, 38^r.370, 38^r.916.
 30. Observed over wire T with the transit-micrometer set to readings 34^r.800, 35^r.000, 35^r.200, 35^r.400, 35^r.800, 36^r.000, 36^r.200, 36^r.400.
 37. Observed over wire T with the transit-micrometer set to readings 38^r.915, 38^r.973, 39^r.045, 39^r.086, 39^r.519, 39^r.613, 39^r.732, 39^r.794, 39^r.841.
 38. Observed over wire T with the transit-micrometer set to readings 34^r.100, 34^r.400, 34^r.700, 35^r.000, 35^r.300, 35^r.600, 36^r.000, 36^r.300, 36^r.600, 37^r.000.
 41. Observed over wire T with the transit-micrometer set to readings 35^r.108, 35^r.176, 35^r.233, 35^r.308, 35^r.352, 35^r.410, 35^r.451, 35^r.512, 35^r.570, 35^r.630.
 50. Observed over wire T with the transit-micrometer set to readings 35^r.350, 35^r.400, 35^r.450, 35^r.500, 35^r.550, 35^r.600, 35^r.650, 35^r.700, 35^r.750, 35^r.800, 35^r.850.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898GCAW 59

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-e.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.									
																							h	m	s
Dec. 7	1	Groomb.2260 S.P.	CD	33'1	37'4	41'6	46'1	58'7	3'1	7'5	16'0	20'2	24'5	3. 33. 58'76	+ 2'15	59'21			52'41	15. 34. 51'64	+ 0'03				
	2	B. D.+76° No. 137	CD	23'2	33'6	44'5	5'1	15'2	26'1	57'0	7'5	18'0	28'9	3. 38. 26'07	(- 1'43)	25'61			[+ 0'16]	3. 39. 18'04	- 12'90				
	3	Groomb.2278 S.P.	CD	21'4	26'1	31'0	36'0	50'4	55'6	0'4	10'1	15'0	19'9	3. 42. 50'52	[+ 5'87]	51'03				15. 43. 43'46	+ 0'73				
	4	ε Tauri	W	29'5	32'0	34'5	40'0	42'5	45'1	52'8	55'4	58'1	0'8	4. 21. 45'11		45'39	37'91	52'52	52'43	.....					
	5	W. B. IV. 588 ...	CD	...	...	...	...	2'0	4'6	12'0	14'5	17'1	19'8	4. 29. 4'63		4'97			52'41	4. 29. 57'41	- 5'11				
	6	B. D.+41° No. 923	CD	...	...	...	...	...	12'0	21'8	25'1	28'4	32'0	4. 30. 11'97		12'12				4. 31. 4'56	- 6'46				
	7	54 Eridani.....	CD	49'4	52'0	54'5	59'8	2'2	5'1	12'7	15'5	18'1	20'8	4. 35. 5'05		5'56				4. 35. 58'00	- 4'49				
	8	Carrington 2515 S.P.	CD	...	...	15'2	40'0	52'2	18'1	42'1	30'2	...	...	4. 39. 52'48		54'45				16. 40. 46'89	+ 22'64				
	9	Carrington 2516 S.P.	CD	...	...	29'6	53'9	6'0	30'6	56'1	43'5	...	...	4. 40. 6'13		8'09				16. 41. 0'53	+ 22'61				
	10	Lalande 9056	CD	...	...	...	...	29'7	32'7	36'0	44'9	48'0	51'1	4. 44. 35'88		36'07				4. 45. 28'51	- 6'18				
	11	B. D.+20° No. 840	CD	30'8	33'2	36'0	41'3	43'9	46'5	...	...	...	...	4. 47. 46'57		46'84				4. 48. 39'28	- 5'48				
	12	B. D.+23° No. 766	CD	...	...	...	...	13'1	16'0	24'0	26'7	29'4	32'0	4. 48. 15'96		16'23				4. 49. 8'67	- 5'58				
	13	Lalande F. 693 ...	CD	54'6	4'9	14'1	25'1	34'7	56'0	5'9	16'1	26'0	36'6	4. 54. 45'40		43'26				4. 55. 35'70	- 40'82				
	14	Groomb.2413 S.P.	CD	0'9	10'3	...	29'1	56'1	5'5	14'5	...	42'5	51'7	4. 57. 56'20		57'05				16. 58. 49'49	+ 6'44				
	15	Lalande F. 713 ...	CD	...	...	...	...	...	...	57'1	13'2	29'1	46'0	4. 59. 9'94		9'08				5. 0. 1'52	- 21'04				
	16	Groomb.2416 S.P.	CD	...	...	...	...	0'8	6'0	11'3	21'3	26'3	31'6	5. 2. 0'74		1'27				17. 2. 53'71	+ 1'83				
	17	δ Orionis	CD	38'7	41'1	43'7	48'5	51'1	53'6	0'8	3'3	5'9	8'3	5. 25. 53'54		53'93	46'38	52'45		.....					
	18	Groombridge 956	CD	23'5	32'9	42'0	50'9	27'5	36'0	45'3	53'3	...	...	5. 33. 8'93		7'07				5. 33. 59'52	- 37'80				
	19	25 Camelopardi...	CD	...	...	...	...	...	...	50'9	55'1	59'5	3'9	5. 34. 38'18		38'22				5. 35. 30'67	- 7'97				
	20	Lalande F. 757 ...	CD	...	...	...	...	39'0	59'5	56'9	16'1	35'4	55'9	5. 38. 58'89		57'78				5. 39. 50'23	- 25'85				
	21	κ Orionis.....	W	...	...	51'2	56'0	58'5	1'1	8'3	10'9	13'6	16'1	5. 42. 1'06		1'51	54'04	52'53	52'43	.....					
	22	Oeltz. Arg. (N.) 6311	W	...	34'9	39'5	48'0	52'5	57'0	9'9	14'1	18'9	...	5. 47. 56'94		56'97				5. 48. 49'44	- 8'16				
	23	Groomb.2495 S.P.	CD	6'0	10'0	13'6	17'8	...	32'5	36'4	44'0	47'6	51'1	5. 55. 28'72		29'12			52'41	17. 56. 21'57	+ 0'28				
	24	Carrington 2725 S.P.	CD	...	...	...	27'2	17'2	34'7	51'8	...	...	...	6. 1. 17'37		18'80				18. 2. 11'25	+ 16'10				
	25	Piazzi XVIII. 23 S.P.	CD	...	...	...	...	...	27'6	34'1	46'2	...	59'4	6. 4. 21'29		21'91				18. 5. 14'36	+ 3'46				
	26	δ Ursæ Min. S.P..	CD	47'0	55'4	4'1	8'9	15'5	22'9	27'8	33'5	38'6	...	6. 4. 10'99		14'18				18. 5. 6'63	+ 44'90				
	27	Groombridge 1108	CD	...	...	...	28'8	33'2	38'0	51'2	56'0	0'4	4'9	6. 6. 37'89		37'90				6. 7. 30'35	- 8'31				
	28	Lalande F. 2963 S.P.	CD	...	...	...	...	...	27'3	51'1	36'8	0'5	24'0	6. 8. 4'01		5'89				18. 8. 58'34	+ 23'32				
	29	μ Geminorum ...	CD	36'9	39'6	42'1	47'6	50'2	53'0	0'9	3'5	6'2	9'0	6. 15. 52'94		53'21	45'67	52'46		.....					
	30	Groomb.2553 S.P.	CD	...	...	...	...	37'5	41'8	45'1	52'9	56'8	0'5	6. 17. 37'62		38'02				18. 18. 30'47	+ 0'32				
	31	B.D.+80° No.577 S.P.	CD	...	...	...	...	13'9	...	44'1	14'2	30'0	44'1	6. 22. 14'13		15'42				18. 23. 7'87	+ 13'71				
	32	42 Draconis S.P..	CD	...	...	...	...	45'3	51'5	57'5	9'4	15'3	21'1	6. 24. 45'44		46'03				18. 25. 38'48	+ 3'00				
	33	Lalande F. 904 ...	CD	...	...	48'5	18'0	32'6	47'9	31'1	46'0	...	...	6. 27. 47'64		46'86				6. 28. 39'31	- 20'39				
	34	Groomb.2608 S.P.	CD	...	...	...	...	32'8	38'0	42'6	52'0	57'4	1'9	6. 29. 32'89		33'39				18. 30. 25'84	+ 1'63				
	35	Groomb.2622 S.P.	CD	...	...	...	...	41'1	46'9	53'5	4'7	10'6	16'3	6. 30. 41'09		41'69				18. 31. 34'14	+ 2'94				
	36	Oeltz. Arg. (S.) 5609	CD	15'6	18'2	21'8	26'9	30'0	32'5	41'2	43'9	46'9	50'0	6. 39. 32'74		33'33				6. 40. 25'78	- 4'06				
	37	Lalande F. 3178 S.P.	CD	39'8	48'1	56'4	4'7	13'5	29'8	38'0	47'2	54'5	3'0	6. 47. 21'50		24'67				18. 48. 17'13	+ 43'61				
	38	B. D.+72° No.865 S.P.	CD	...	...	...	...	20'0	28'2	36'0	52'4	0'5	8'9	6. 49. 19'90		20'67				18. 50. 13'13	+ 5'50				
	39	Cephei 51	CD	16'5	27'2	37'1	47'0	7'1	18'0	28'1	38'0	...	...	6. 51. 57'38		54'04				6. 52. 46'50	- 61'40				
	40	ν Draconis S.P....	CD	56'7	4'3	12'0	19'9	42'2	50'1	58'0	12'9	20'5	28'1	6. 54. 42'35		43'09				18. 55. 35'55	+ 4'89				
	41	ζ Geminorum ...	W	53'4	56'0	58'8	4'0	6'5	9'3	16'9	19'5	22'2	24'9	6. 57. 9'19		9'46	1'83	52'37	52'43	.....					
	42	γ Canis Majoris...	CD	...	...	...	...	14'5	22'1	24'8	27'3	30'0	...	6. 58. 14'57		15'05	7'47	52'42	52'41	.....					
	43	51 Geminorum ...	CD	20'9	23'5	26'1	31'3	33'9	36'4	44'0	46'6	49'3	51'9	7. 6. 36'43		36'73	29'17	52'44		.....					
	44	δ Geminorum ...	CD	51'3	54'0	56'7	2'0	4'5	7'4	15'3	18'0	20'6	23'4	7. 13. 7'36		7'63	0'13	52'50		.....					
	45	Polaris S.P.	B	44'0	57'4	2'9	7'8	27'4	32'3	36'2	40'9	52'0	56'5	13. 20. 39'87	(- 0'78)	46'68	37'53	50'85	52'42	1. 21. 39'20	- 43'68				
	46	Arcturus	B	48'6	51'2	54'0	59'2	1'9	4'5	12'1	14'8	17'5	20'1	14. 10. 4'43		4'75	57'30	52'55	[+ 0'18]	14. 10. 57'28	- 2'27				
Dec. 8	47	η Pegasi	B	0'5	3'2	6'0	11'8	14'5	17'5	26'0	28'8	31'6	34'5	22. 37. 17'48		17'75				22. 38. 10'34	- 2'76				
	48	γ Piscium	B	42'1	44'5	47'1	52'0	54'5	57'1	4'2	6'8	9'3	12'0	23. 10. 57'00		57'40	49'92	52'52		23. 11. 49'99	- 3'54				
	49	τ Pegasi	B	...	...	...	...	37'0	...	47'6	50'2	52'9	55'9	23. 14. 39'65		39'96				23. 15. 32'55	- 3'25				
	50	θ Pegasi	B	5'6	8'1	10'9	16'1	19'0	21'8	29'6	32'2	34'9	37'8	23. 19. 21'64		21'95				23. 20. 14'54	- 3'30				
	51	ι Piscium	B	37'1	39'5	42'1	47'1	49'5	52'0	59'4	1'9	4'5	7'0	23. 21. 52'05		52'43				23. 22. 45'03	- 3'52				
	52	14 Andromedæ...	B	...	4'9	8'0	14'4	...	20'9	30'1	...	...	...	23. 25. 20'76		20'98				23. 26. 13'58	- 3'14				
	53	ι Piscium	B	31'7	34'1	36'7	41'5	44'0	46'6	54'0	56'4	59'0	1'4	23. 33. 46'58		46'96	39'62	52'66		23. 34. 39'56	- 3'64				

13. Observed over wire T with the transit-micrometer set to readings 34°100, 34°400, 34°700, 35°000, 35°300, 35°600, 36°200, 36°500, 36°800, 37°100.
18. Observed over wire T with the transit-micrometer set to readings 34°100, 34°400, 34°700, 35°000, 36°200, 36°500, 36°800, 37°100.
26. Observed over wire T with the transit-micrometer set to readings 37°608, 37°412, 37°203, 37°096, 36°934, 36°740, 36°618, 36°494, 36°362.
36. Very faint. Observed in dark field with wires illuminated.
37. Observed over wire T with the transit-micrometer set to readings 36°600, 36°400, 36°200, 36°000, 35°800, 35°600, 35°400, 35°200, 35°000, 34°800, 34°600.
39. Observed over wire T with the transit-micrometer set to readings 34°800, 35°000, 35°200, 35°400, 35°800, 36°000, 36°200, 36°400.
45. Observed over wire O with the transit-micrometer set to readings 34°245, 34°120, 34°070, 34°025, 33°849, 33°819, 33°786, 33°760, 33°636, 33°604.
47, 48, 49, 52. Cloudy.

1898GGMW...58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[221]

1898 MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896°.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
																							h	m	s
Dec. 8	1	λ Piscium	B	40°1	42°6	45°1	50°0	52°5	55°1	2°2	4°9	7°2	10°0	23.35.55°01	+ 2°15	55°42			52°42	23.36.48°02	-	3°66			
	2	76 Pegasi	B	...	...	...	...	...	37°5	45°1	47°9	50°4	53°0	23.36.37°60	(- 0°78)	37°95			[+ 0°18]	23.37.30°55	-	3°52			
	3	78 Pegasi	B	...	...	...	...	...	56°1	4°2	7°1	10°0	12°9	23.37.55°97	[+ 5°87]	56°24				23.38.48°84	-	3°40			
	4	79 Pegasi	B	...	20°0	22°9	28°5	31°2	34°1	42°2	45°1	48°0	...	23.43.34°05		34°32				23.44.26°92	-	3°46			
	5	φ Pegasi	B	6°9	9°5	12°1	17°1	19°9	22°6	30°1	32°9	35°5	38°1	23.46.22°51		22°83				23.47.15°43	-	3°57			
	6	ψ Pegasi	B	21°9	24°5	27°4	32°7	35°3	38°1	46°1	48°9	51°6	54°5	23.51.38°14		38°44				23.52.31°04	-	3°57			
	7	ω Piscium	B	54°0	56°5	58°9	3°9	6°3	8°9	16°1	18°8	21°2	23°9	23.53.8°89		9°27	1°90	52°63		23.54.1°87	-	3°73			
	8	85 Pegasi	B	...	...	...	...	...	52°0	54°9	3°1	5°9	8°6	11°4	23.55.54°89		55°18				23.56.47°78	-	3°66		
	9	α Andromedæ..R.	B	...	57°1	0°0	5°6	8°4	11°3	19°6	22°5	25°4	...	0.2.11°29		11°68	4°27	52°59	52°60	0.3.4°28	-	3°65			
	10	Oeltz. Arg. (N.) 1043	B	...	58°2	3°9	12°5	17°2	21°9	36°0	40°6	44°8	...	0.57.21°98		22°08				0.58.14°69	-	4°60			
	11	β Andromedæ ...	B	...	...	...	...	...	...	14°9	17°9	20°9	24°0	1.3.5°93		6°18	58°76	52°58		1.3.58°79	-	4°33			
	12	Polaris	B	11°0	17°3	33°0	38°5	41°8	4°0	10°2	16°0	31°2	36°1	1.20.52°19		45°93	37°14	51°21		1.21.38°54	-	43°29			
	13	Groombridge 677	B	24°0	32°7	42°4	0°2	9°6	19°0	45°8	54°9	4°5	13°9	3.24.18°84		18°64				3.25.11°27	-	11°28			
	14	Oeltz. Arg. (N.) 3831-2	B	...	...	...	...	...	...	47°5	57°2	6°5	16°0	3.24.21°01		20°81				3.25.13°44	-	11°28			
	15	Piazzi XV. 136 S.P...	B	58°9	4°8	10°7	16°4	33°4	39°1	44°9	56°2	2°2	8°0	3.28.33°37		33°90				15.29.26°53	+	1°32			
	16	ο Eridani	B	25°9	28°1	30°5	35°6	38°1	...	...	...	...	...	4.9.40°64		41°09				4.10.33°72	-	4°55			
	17	56 Tauri	B	23°8	26°4	29°1	34°3	37°1	39°9	...	...	...	...	4.12.39°76		40°07				4.13.32°70	-	5°42			
	18	γ Tauri	B	...	51°9	54°4	59°5	2°0	4°7	12°2	14°9	17°5	...	4.13.4°69		5°04	57°61	52°57		4.13.57°67	-	5°23			
	19	Capella	B	53°1	56°7	0°2	7°4	10°9	14°6	...	...	...	...	5.8.14°49		14°67				5.9.7°31	-	6°95			
Dec. 9	20	Groombridge 1775	B	42°9	46°1	49°6	56°5	59°9	3°4	13°4	16°6	20°0	23°5	11.19.3°24	(- 1°47)	3°39			52°82	11.19.56°31	-	4°20			
	21	Groombridge 4070 S.P.	B	...	...	...	...	52°6	58°8	4°1	16°0	22°1	27°6	11.21.52°59	[+ 6°52]	53°27			[+ 0°21]	23.22.46°19	-	2°17			
	22	ν Leonis	B	32°6	35°1	37°7	42°5	44°9	47°6	54°9	57°3	59°8	2°4	11.30.47°52		47°94	40°85	52°91		.....	—	3°98			
	23	Groombridge 1815	B	23°6	26°9	30°4	37°1	40°2	43°9	53°8	57°0	0°5	4°0	11.33.43°79		43°94				11.34.36°86	-	3°98			
	24	β Leonis	B	40°2	42°8	45°3	50°4	53°0	55°6	3°1	5°8	8°2	10°9	11.42.55°57		55°91	48°76	52°85		.....	—	3°98			
	25	β Virginis	B	11°9	14°3	16°9	21°9	24°3	26°9	34°1	36°5	39°1	41°6	11.44.26°79		27°19	20°12	52°93		.....	—	3°98			
	26	Groombridge 1830	B	51°1	54°1	57°4	3°8	6°8	10°1	19°5	22°5	25°8	29°0	11.46.10°06		10°24				11.47.3°16	-	4°07			
	27	Groombridge 1839	B	...	25°9	29°1	35°6	38°9	42°2	51°9	55°0	58°6	...	11.50.42°21		42°37				11.51.35°29	-	3°72			
	28	Groombridge 1840	B	...	...	...	...	...	...	4°9	8°0	11°4	14°8	11.50.55°17		55°34				11.51.48°26	-	3°72			
	29	Groombridge 1841	B	44°8	48°0	51°2	...	...	...	...	17°2	20°4	23°9	11.51.4°29		4°45				11.51.57°37	-	3°72			
	30	Bradley 3195 S.P.	B	58°2	3°5	8°4	...	28°5	...	...	48°6	54°0	58°2	11.55.28°44		29°05				23.56.21°97	-	3°20			
	31	ο Virginis	B	49°8	52°1	54°8	59°7	2°1	4°8	12°1	14°8	17°4	19°8	11.59.4°78		5°15	58°03	52°88		.....	—	3°20			
	32	Groombridge 4235 S.P.	B	30°9	37°8	44°4	...	11°4	...	...	38°2	44°7	51°5	12.1.11°21		11°97				0.2.4°90	-	3°20			
	33	Piazzi O. 25 S.P...	B	...	...	...	...	32°1	37°4	42°2	52°5	...	...	12.10.32°11		32°72				0.11.25°65	-	3°56			
	34	Groombridge 1873	B	...	...	...	...	44°0	49°5	...	...	...	57°4	12.14.49°59		49°48				12.15.42°41	-	3°46			
	35	Groombridge 1916	B	54°3	59°9	5°6	16°9	22°5	28°5	45°5	51°2	56°9	2°9	12.35.28°51		28°40				12.36.21°33	-	2°89			
	36	Piazzi XII. 183...	B	5°6	8°0	10°4	15°4	18°0	20°5	27°9	30°2	32°8	35°4	12.41.20°46		20°91				12.42.13°84	-	3°06			
	37	Groombridge 1925	B	...	...	57°1	5°0	8°7	12°9	24°1	28°2	...	...	12.42.12°75		12°83				12.43.5°76	-	2°95			
	38	Groombridge 148 S.P.	B	...	...	...	...	...	...	...	17°3	1°4	45°6	12.42.33°94		34°76				0.43.27°69	-	4°64			
	39	δ Virginis	B	16°6	19°0	21°5	26°3	28°9	31°5	38°8	41°2	43°8	46°2	12.49.31°42		31°81	24°85	53°04		.....	—	2°76			
	40	δ Virginis... (E&E)	B	56°4	11°3	26°2	41°0	55°9	10°8	25°7	...	...	...	12.49.31°44		31°83	24°85	53°02		.....	—	2°76			
	41	15 Canum Venaticum	B	45°3	48°5	51°8	58°0	1°2	4°5	14°0	17°2	20°2	23°6	13.4.4°48		4°65				13.4.57°58	-	2°76			
	42	Spica	B	37°1	39°6	42°1	47°1	49°7	52°2	59°7	2°1	4°8	7°3	13.18.52°21		52°70	45°65	52°95		.....	—	3°42			
	43	Spica	B	16°6	31°6	46°7	...	17°0	31°9	47°0	...	...	...	13.18.52°18		52°67	45°65	52°98		.....	—	3°42			
	44	Polaris S.P.	AC	6°4	14°0	20°0	30°2	58°5	5°5	12°0	20°0	47°3	55°4	13.20.33°17		42°92	35°88	52°96	52°78	.....	—	4°06			
Dec. 10	45	⊙ 1 L	AC	46°0	48°6	51°4	56°5	59°5	2°2	10°1	12°9	15°5	18°3	17.10.2°14		} 13°65			17.12.6°58						
	46	⊙ 2 L	AC	7°9	10°6	13°2	18°5	21°2	24°1	31°9	34°6	37°5	40°1	17.12.24°00		} 13°65			17.12.6°58						
	47	ε Orionis	AC	52°6	55°1	57°7	2°5	5°0	7°6	14°9	17°3	20°0	22°4	5.30.7°55		7°97	1°01	53°04	52°99	.....	—	3°27			
Dec. 11	48	η Aquarii	RC	...	...	0°8	5°5	8°0	10°5	17°8	20°2	...	...	22.29.10°52	[+ 6°83]	10°96	3°94	52°98	52°96	22.30.4°09	-	3°27			
	49	67 Aquarii	RC	...	...	...	...	53°3	55°9	58°4	5°8	...	...	22.36.58°40		58°88			[+ 0°18]	22.37.52°01	-	3°42			
	50	δ 1 L	RC	31°5	33°9	36°4	41°5	44°0	46°6	54°0	56°5	59°2	1°7	23.6.46°57		47°02				23.8.42°12	-	4°06			
	51	20 Ceti	RC	37°2	39°6	42°1	47°0	49°5	52°1	59°5	1°9	4°2	6°9	0.46.52°04		52°48	45°55	53°07	53°14	0.47.45°63	-	4°06			

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 40 and 43, — 63°63 and — 59°65.
Correction for passage of Semidiameter, No. 50, + 61°96.

1, 2, 3, 4, 5, 16, 19, 31, 34. Cloudy.
12. Observed over wire O with the transit-micrometer set to readings 32°853, 32°945, 33°050, 33°112, 33°170, 33°340, 33°388, 33°432, 33°549, 33°605.
34. Observed over wires S, T and Y.
44. Observed over wire T with the transit-micrometer set to readings 35°302, 35°245, 35°189, 35°095, 34°865, 34°809, 34°740, 34°663, 34°435, 34°356.
48, 49. Faint; cloudy.
10, 13, 14, 20, 21, 30, 33. Observed in dark field with wires illuminated.
38. Observed over wires O, N and M.
50. Correction to R.A. on true meridian, + 0°01.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
															Collimation. (Level). [Azimuth].	"						
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.									
Dec. 11	1	Polaris	RC	20°0	46°6	0°2	8°9	24°9	33°6	46°0	2°9	11°9	21°5	1. 20. 52°99	+ 2°15		43°23	34°57	51°34	53°14	.....	
	2	o Piscium	RC	50°0	52°4	55°0	0°0	2°4	5°0	12°3	14°9	17°5	20°0	1. 39. 4°99	(- 1°47)		5°37	58°37	53°00	[+ 0°18]	1. 39. 58°52	- 4°38
	3	Lalande 27298 S.P.	RC	55°3	59°7	4°0	8°1	20°5	25°2	29°2	37°6	42°0	46°0	2. 51. 20°70	[+ 6°83]		21°26				14. 52. 14°42	- 0°61
	4	Groomb. 2175 S.P.	RC	7°6	...	16°5	20°9	34°2	38°5	43°0	51°9	...	0°8	2. 55. 34°12			34°68				14. 56. 27°84	- 0°48
	5	Lalande 5851	RC	39°1	42°8	46°7	54°0	57°8	1°7	12°5	16°3	20°1	23°9	3. 5. 1°55			1°65				3. 5. 54°81	- 6°21
	6	12 Ursæ Min. S.P.	RC	...	...	...	50°4	...	21°2	29°3	44°1	...	...	3. 16. 30°28			14°20				15. 17. 7°36	+ 2°80
	7	* N.P.D. 32° 50'	RC	44°9	49°5	54°5	2°9	7°5	12°3	...	...	...	...	3. 20. 12°30			12°30				3. 21. 5°47	- 7°15
	8	* N.P.D. 32° 44'	RC	...	...	...	...	...	15°2	20°1	29°5	56°3	23°9	3. 21. 1°86			1°86				3. 21. 55°03	- 7°18
	9	Groomb. 2252 S.P.	RC	...	...	...	32°6	49°8	55°6	1°3	...	...	...	3. 28. 49°71			50°43				15. 29. 43°60	+ 1°24
	10	Groomb. 2260 S.P.	RC	...	...	40°9	45°4	57°9	2°4	6°5	15°2	...	...	3. 33. 57°96			58°51				15. 34. 51°68	- 0°06
	11	Lalande F. 2677 S.P.	RC	...	...	57°3	4°4	...	...	...	53°4	0°9	...	3. 36. 25°30			26°16				15. 37. 19°33	+ 2°65
	12	Groomb. 2278 S.P.	RC	...	...	30°5	34°9	49°6	54°6	59°4	9°1	...	...	3. 42. 49°58			50°21				15. 43. 43°38	+ 0°65
	13	Groomb. 2281 S.P.	RC	7°6	12°5	17°6	22°8	37°3	42°1	47°1	56°9	2°0	6°9	3. 44. 37°21			37°83				15. 45. 31°00	+ 0°72
	14	Carrington 567 ...	RC	...	...	...	30°1	47°4	4°1	55°6	...	...	...	3. 56. 4°65			3°49				3. 56. 56°66	- 19°67
	15	W. B. III. 1120 ...	RC	26°4	28°9	31°5	...	...	41°8	...	51°6	54°1	56°8	3. 58. 41°62			42°15				3. 59. 35°32	- 4°61
	16	Radcliffe 3513 S.P.	RC	38°0	42°8	47°5	52°1	6°0	10°9	15°7	24°8	29°9	34°1	4. 6. 6°11			6°71				16. 6. 59°88	+ 0°75
	17	Groomb. 2322 S.P.	RC	...	...	...	...	14°8	...	24°9	...	14°2	44°2	4. 7. 14°81			15°44				16. 8. 8°61	+ 1°05
	18	Groomb. 2337 S.P.	RC	...	...	42°1	50°9	16°9	25°8	34°2	51°9	...	...	4. 15. 16°80			17°81				16. 16. 10°98	+ 5°19
	19	Groombridge 827 ...	RC	...	...	...	40°5	48°0	55°5	17°5	...	...	...	4. 19. 55°53			55°23				4. 20. 48°40	- 10°90
	20	Groomb. 2356 S.P.	RC	...	...	0°7	8°5	31°9	39°6	47°5	3°3	...	...	4. 25. 31°76			32°69				16. 26. 25°86	+ 4°39
	21	Flora	RC	22°2	24°8	27°4	32°5	34°9	37°6	45°1	47°8	50°3	53°1	4. 29. 37°61			37°96				4. 30. 31°13	
	22	Groomb. 2382 S.P.	RC	...	...	...	...	2°5	14°9	26°6	50°0	...	...	4. 39. 2°66			3°96				16. 39. 57°13	+ 9°00
	23	Piazzi XVI. 231 S.P.	RC	...	...	55°9	0°5	14°1	18°8	23°5	32°8	...	...	4. 45. 14°18			14°77				16. 46. 7°95	+ 1°05
	24	Piazzi IV. 207 ...	RC	...	...	17°7	35°0	44°0	53°3	20°1	28°4	...	...	4. 50. 53°26			52°83				4. 51. 46°01	- 13°13
	25	Groomb. 2401 S.P.	RC	...	...	...	...	53°0	59°5	6°1	19°2	25°5	32°1	4. 54. 53°05			53°85				16. 55. 47°03	+ 3°32
	26	Groomb. 2413 S.P.	RC	...	...	...	...	...	32°0	41°4	50°5	46°0	...	4. 58. 55°27			56°33				16. 59. 49°51	+ 6°46
	27	Groomb. 2417 S.P.	RC	...	...	...	...	...	...	35°4	46°0	17°0	...	5. 4. 14°83			15°48				17. 5. 8°66	+ 1°85
	28	Rigel	RC	28°5	30°9	33°4	38°4	40°9	43°4	50°8	53°2	55°9	58°3	5. 8. 43°41			43°90	37°07	53°17		5. 9. 37°08	- 4°73
	29	Neptune	RC	52°4	55°1	57°8	2°9	5°6	8°2	16°2	18°9	21°4	24°2	5. 11. 8°31			8°61				5. 12. 1°79	
	30	Groomb. 2438 S.P.	RC	...	...	...	...	...	20°8	28°2	43°2	50°9	58°4	5. 19. 13°08			13°97				17. 20. 7°15	+ 4°79
	31	Groombridge 970 ...	RC	...	...	...	39°4	48°4	57°9	24°9	...	...	...	5. 25. 57°84			57°39				5. 26. 50°57	- 13°77
	32	Oeltz. Arg. (N.) 5928 ...	RC	...	...	...	...	...	...	20°1	28°9	37°4	46°6	5. 26. 54°65			54°24				5. 27. 47°42	- 13°27
	33	f Draconis S.P.	RC	...	...	...	...	...	31°9	38°2	51°6	58°4	5°1	5. 31. 25°04			25°84				17. 32. 19°02	+ 3°82
	34	Piazzi XVII. 206 S.P.	RC	...	...	59°5	4°8	20°7	26°1	31°5	42°0	...	...	5. 33. 20°66			21°34				17. 34. 14°52	+ 2°24
	35	α Orionis	RC	28°9	31°5	34°0	38°9	41°4	44°0	51°3	53°9	56°2	58°8	5. 48. 43°93			44°32	37°59	53°27		5. 49. 37°50	- 5°14
	36	Lalande 11608 (1st Star) ..	RC	...	...	...	45°1	48°8	52°5	3°7	...	...	...	6. 2. 52°61			52°71				6. 3. 45°90	- 7°39
	37	Groombridge 1101 ...	RC	...	...	...	44°9	48°2	52°0	2°4	...	...	...	6. 3. 51°95			52°08				6. 4. 45°27	- 7°04
	38	δ Ursæ Min. S.P.	RC	29°9	37°8	44°0	4°9	12°6	28°8	48°1	55°2	5°5	28°1	6. 4. 8°70			12°64	5°12	52°48		.....	
	39	Lalande 11947 ...	RC	...	...	32°9	38°0	40°2	42°8	50°0	52°7	...	...	6. 9. 42°82			43°25				6. 10. 36°44	- 4°94
	40	μ Geminorum ...	RC	...	...	...	46°9	49°5	52°2	0°1	...	...	...	6. 15. 52°23			52°54	45°76	53°22		6. 16. 45°73	- 5°68
	41	Oeltz. Arg. (N.) 18164 S.P.	RC	...	...	30°1	33°9	44°9	48°9	53°3	0°2	...	...	6. 17. 45°14			45°64				18. 18. 38°83	+ 0°32
	42	Groomb. 2584 S.P.	RC	...	...	...	...	...	29°6	39°2	44°0	48°9	...	6. 24. 19°64			20°27				18. 25. 13°46	+ 1°74
	43	Groomb. 2590 S.P.	RC	...	...	...	...	...	30°5	40°3	45°1	50°0	...	6. 25. 20°78			21°40				18. 26. 14°59	+ 1°71
	44	Groomb. 2604 S.P.	RC	...	...	43°5	48°2	2°7	7°8	12°6	22°2	...	...	6. 29. 2°73			3°35				18. 29. 56°54	+ 1°70
	45	Groomb. 2625 S.P.	RC	...	...	...	40°2	52°8	57°2	1°5	...	...	...	6. 33. 52°84			53°39				18. 34. 46°58	+ 0°93
	46	Cephei 51	RC	6°1	16°0	28°2	48°5	59°3	9°3	33°1	41°6	51°1	10°0	6. 51. 58°92			54°77	47°96	53°19		.....	
	47	λ Ursæ Min. S.P.	RC	52°8	5°5	15°0	35°2	42°4	52°5	13°3	20°5	27°1	45°5	7. 23. 21°83			34°35	26°69	52°34		.....	
	48	Castor	RC	52°9	55°7	58°8	4°4	7°3	10°2	19°0	22°0	24°8	28°0	7. 27. 10°35			10°59	3°82	53°23		7. 28. 3°79	- 5°95
	49	Procyon	RC	47°8	50°2	...	57°8	0°1	2°8	10°0	...	15°1	17°5	7. 33. 2°70			3°10	56°39	53°29		7. 33. 56°30	- 4°84
	50	Pollux	RC	52°4	55°2	58°1	3°6	6°5	9°3	17°6	20°5	23°2	26°1	7. 38. 9°29			9°55	2°81	53°26		7. 39. 2°75	- 5°67
	51	W. B. (2) VIII. 23 ...	AC	52°0	55°1	58°9	5°4	8°9	12°0	22°2	25°7	29°1	32°6	8. 5. 12°24			12°39			53°38	8. 6. 5°83	- 6°47
	52	Cape 1880 No. 4198 ...	AC	...	...	...	...	...	...	50°2	52°9	55°6	58°0	8. 7. 43°08			43°55				8. 8. 36°99	- 4°46
	53	B.D. - 5° No. 2446 ...	AC	...	...	...	...	...	18°0	25°2	28°0	30°2	32°9	8. 8. 17°98			18°45				8. 9. 11°89	- 4°46
	54	d ¹ Cancri	AC	20°2	22°9	25°4	30°7	33°2	36°0	43°6	46°2	48°9	51°6	8. 16. 35°91			36°23	29°65	53°42		.....	

1. Cloudy. Observed over wire Q with the transit-micrometer set to readings 35°126, 35°867, 35°990, 36°073, 36°207, 36°276, 36°400, 36°540, 36°615, 36°700.
2. Faint; cloudy.
3. Observed in partially illuminated field.
- 4, 7, 8, 14, 41. Observed in dark field with wires illuminated.
5. Observed over wires U, V, X, Y and Z.
6. Observed over wires Q, P, O and N.
- 7, 8. Very faint.
17. Observed over wires T, R, N and M.
27. Observed over wires R, Q, O and N.
38. Observed over wire Q with the transit-micrometer set to readings 36°221, 36°020, 35°868, 35°390, 35°188, 34°804, 34°352, 34°180, 33°929, 33°398.
46. Diffused. Observed over wire U with the transit-micrometer set to readings 35°170, 35°363, 35°582, 35°978, 36°212, 36°377, 36°860, 37°036, 37°211, 37°584.
47. Observed over wire P with the transit-micrometer set to readings 36°079, 35°973, 35°917, 35°778, 35°730, 35°644, 35°515, 35°450, 35°406, 35°270.

1885 JAN 58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[223]

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
			s	s	s	s	s	s	s	s	s	s								
Dec. 11	Groomb. 3165 S.P.	AC	32.4	36.7	40.9	45.1	58.0	2.2	6.5	14.9	19.1	23.4	8. 18. 57.86	+ 2.15	58.41			53.38	20. 19. 51.85	+ 0.26
	Groomb. 3230 S.P.	AC	...	...	28.7	33.5	48.0	53.1	58.0	7.6	...	...	8. 28. 48.05	(- 1.47)	48.68			[+ 0.18]	20. 29. 42.12	+ 0.85
	Oeltz. Arg. (N.) 9184	AC	10.5	14.0	17.5	24.4	27.9	31.5	41.9	45.5	49.0	52.7	8. 32. 31.54	[+ 6.83]	31.67				8. 33. 25.11	- 6.39
	Groombridge 1468	AC	30.5	...	...	44.6	48.1	51.9	...	5.5	9.5	...	8. 33. 51.74		51.87				8. 34. 45.31	- 6.39
	B.D. + 17° No. 1947	AC	...	...	...	...	...	39.1	41.7	44.3	47.1	...	8. 42. 31.46		31.79				8. 43. 25.24	- 4.97
	* N.P.D. 72° 38'	AC	18.2	...	...	...	...	41.6	...	46.9	49.6	...	8. 43. 33.95		34.28				8. 44. 27.73	- 4.96
	Groomb. 3335 S.P.	AC	...	...	...	...	10.0	14.8	19.1	27.6	32.1	36.6	8. 50. 10.10		10.66				20. 51. 4.11	+ 0.06
	Groomb. 3358 S.P.	AC	...	...	...	1.6	14.2	18.7	23.3	32.0	36.3	40.5	8. 54. 14.35		14.92				20. 55. 8.37	- 0.03
	Groomb. 3387 S.P.	AC	...	...	41.8	46.0	58.9	2.9	7.1	15.8	...	...	8. 59. 58.67		59.23				21. 0. 52.68	- 0.20
	Groomb. 3401 S.P.	AC	...	...	5.2	10.4	24.4	29.5	34.4	44.1	...	...	9. 3. 24.57		25.19				21. 4. 18.64	+ 0.32
	Groomb. 3410 S.P.	AC	...	...	...	20.8	26.2	31.7	42.1	47.9	53.1	...	9. 6. 20.68		21.36				21. 7. 14.81	+ 0.80
	W.B. (2) IX. 248-9	AC	...	50.0	53.0	59.0	2.0	5.1	14.0	16.9	20.0	...	9. 14. 5.05		5.26				9. 14. 58.71	- 5.41
	Bradley 2832 S.P.	AC	32.6	38.0	44.9	24.7	30.7	35.9	...	...	...	...	9. 20. 42.83		45.12				21. 21. 38.57	+ 15.08
	ξ Leonis	AC	16.0	18.4	21.1	26.0	28.5	31.1	38.5	41.1	43.5	46.1	9. 25. 31.07		31.44	24.92	53.48		.....	
	Groomb. 3487 S.P.	AC	40.4	44.8	49.0	53.0	4.9	9.0	13.1	21.1	25.0	29.1	9. 27. 4.88		5.41				21. 27. 58.86	- 0.82
	Groomb. 3510 S.P.	AC	...	...	...	26.1	39.2	43.9	48.5	...	...	...	9. 31. 39.34		39.93				21. 32. 33.38	- 0.43
	Groomb. 3513 S.P.	AC	...	...	...	...	...	2.5	6.9	15.8	20.0	24.9	9. 31. 57.66		58.25				21. 32. 51.70	- 0.44
	Oeltz. Arg. (N.) 22563-48 P.	AC	...	...	...	...	...	59.2	3.2	30.5	58.0	...	9. 32. 36.20		36.79				21. 33. 30.24	- 0.44
	Groomb. 3583 S.P.	AC	...	...	...	...	...	20.5	25.1	29.3	54.3	...	9. 45. 4.12		4.66				21. 45. 58.11	- 0.96
	Lacaille 4072	AC	31.5	34.2	37.2	42.8	45.9	48.8	57.2	0.1	3.1	6.1	9. 50. 48.73		49.40				9. 51. 42.85	- 3.51
	Groombridge 1598	AC	19.3	23.0	27.0	34.8	38.9	42.9	54.7	58.0	2.0	6.0	9. 55. 42.72		42.80				9. 56. 36.25	- 5.82
	Groomb. 4144 S.P.	B	...	...	...	...	46.1	51.5	57.5	8.3	14.0	20.0	11. 42. 45.77	(- 1.03)	46.45			53.36	23. 43. 39.90	- 2.71
	β Virginis	B	11.4	13.9	16.2	21.2	23.7	26.2	33.7	36.1	38.6	41.1	11. 44. 26.25		26.68	20.18	53.50		.....	
	Groombridge 1830	B	50.7	54.0	57.0	3.3	6.4	9.6	19.0	22.0	25.1	28.5	11. 46. 9.61		9.83				11. 47. 3.28	- 4.15
	Groombridge 1839	B	22.1	25.4	28.8	35.1	38.8	...	51.6	54.4	58.0	1.5	11. 50. 41.80		42.01				11. 51. 35.46	- 3.80
	Groombridge 1840	B	...	...	...	...	...	4.3	7.6	11.0	33.9	11. 50. 54.74		54.95					11. 51. 48.40	- 3.80
	γ Comæ	B	38.0	40.8	43.7	49.4	52.1	55.0	3.4	6.1	9.0	11.9	12. 20. 54.98		55.27				12. 21. 48.72	- 3.35
	γ Canum Venaticum	B	...	...	...	9.4	13.4	17.8	29.5	33.5	37.6	41.7	12. 24. 17.60		17.71				12. 25. 11.16	- 3.31
	γ ¹ Virginis	B	2.9	17.8	20.1	...	...	...	44.7	47.4	2.1	12. 35. 32.54		33.00					12. 36. 26.45	- 3.13
	γ ² Virginis	B	...	...	22.9	27.8	30.1	32.9	40.0	42.5	...	...	12. 35. 32.75		33.21				12. 36. 26.66	- 3.13
	Piazzi XII. 183...	B	5.1	7.6	10.1	15.1	17.5	20.0	27.4	30.0	32.5	35.0	12. 41. 20.07		20.55				12. 42. 14.01	- 3.12
	ε Ursæ Majoris	B	...	...	18.7	27.5	32.0	36.7	50.0	54.2	...	...	12. 48. 36.61		36.67				12. 49. 30.13	- 2.85
	δ Virginis	B	16.1	18.7	21.2	26.0	28.6	31.1	38.4	40.9	43.4	46.0	12. 49. 31.08		31.51	24.91	53.40		.....	
	Groombridge 1944	B	28.4	34.8	41.4	54.3	0.9	7.7	26.9	33.4	40.0	46.8	12. 42. 7.56		7.42				12. 53. 0.88	- 2.39
	Bradley 95 S.P.	B	5.4	12.1	21.1	30.1	39.4	55.7	4.4	12.1	20.5	28.9	12. 57. 46.97		50.54				0. 58. 44.00	- 12.25
Dec. 12	Polaris	B	37.9	49.7	57.1	52.1	58.5	4.7	24.2	28.9	33.4	37.1	1. 20. 50.00	[+ 7.36]	40.33	33.73	53.40	53.46	.....	
	ν Piscium	B	56.6	59.1	1.5	6.5	9.1	11.5	18.9	21.4	24.0	26.5	1. 35. 11.55		12.00	5.36	53.36	[+ 0.16]	1. 36. 5.47	- 4.32
	ο Piscium	B	49.6	52.0	54.5	59.5	2.0	4.5	12.0	14.3	16.9	19.5	1. 39. 4.52		4.95	58.37	53.42		1. 39. 58.42	- 4.38
	α Trianguli	B	2.9	5.7	8.5	14.2	17.0	19.9	28.2	31.1	34.0	36.9	1. 46. 19.88		20.18				1. 47. 13.65	- 4.65
	λ Arietis	B	...	...	...	...	15.9	18.6	26.6	29.4	32.1	34.9	1. 51. 18.70		19.04				1. 52. 12.51	- 4.60
	ε Trianguli	B	46.7	49.8	52.6	58.2	1.3	4.4	13.1	16.0	18.9	22.0	1. 56. 4.34		4.62				1. 56. 58.09	- 4.81
	α Arietis	R. B	13.2	15.9	18.6	24.0	26.5	29.4	37.1	40.0	42.5	45.5	2. 0. 29.31		29.79	23.22	53.43		2. 1. 23.26	- 4.68
	B.D. - 1° No. 305	B	36.9	39.8	42.2	47.1	49.6	52.1	59.5	2.0	4.5	6.9	2. 7. 52.10		52.59				2. 8. 46.06	- 4.45
	Carrington 2170 S.P.	B	8.0	12.9	17.0	23.0	...	...	...	...	...	...	2. 21. 16.89		19.72				14. 22. 13.20	+ 13.74
	ν Arietis	B	49.7	52.2	54.9	...	...	5.5	...	16.4	18.9	21.7	2. 32. 5.64		5.98				2. 32. 59.46	- 4.89
	τ ¹ Eridani	B	...	...	...	20.0	22.6	25.2	33.1	35.6	38.2	41.0	2. 39. 25.27		25.89				2. 40. 19.37	- 4.44
	41 Arietis	B	46.4	49.0	51.9	57.5	0.1	2.9	11.1	14.0	16.8	19.5	2. 43. 2.96		3.28				2. 43. 56.76	- 5.09
	Groomb. 2210 S.P.	B	22.6	30.8	38.1	46.6	53.4	10.0	17.6	25.4	33.6	41.1	2. 49. 1.92		5.67				14. 49. 59.15	+ 24.74
	α Ceti	B	46.4	48.9	51.4	56.1	58.7	1.3	8.5	11.1	13.6	16.1	2. 56. 1.25		1.70	55.21	53.51		2. 56. 55.18	- 4.71
	Bradley 417 ...R.	B	3.0	11.6	21.1	38.8	47.6	...	...	...	...	...	2. 59. 56.76		56.83				3. 0. 50.31	- 10.31
	Bradley 417	B	...	...	...	...	...	...	23.4	32.3	41.4	50.5	2. 59. 56.82		56.43				3. 0. 49.91	- 10.31
	Bradley 431	B	...	...	...	...	...	27.0	0.2	11.6	23.1	34.4	3. 6. 26.90		26.29				3. 7. 19.77	- 12.39
	α Persei	B	43.6	47.5	51.4	58.9	2.5	6.5	17.8	21.4	25.4	29.3	3. 16. 6.49		6.63				3. 17. 0.11	- 6.38

6, 25, 43, 44. Observed in dark field with wires illuminated.

13. Observed over wire T with the transit-micrometer set to readings 36° 05.8, 35° 44.0, 35° 49.5, 33° 77.5, 33° 49.5, 33° 28.5.

18. Observed over wires P, O, N and M.

26. Observed over wires U, V, W and Y.

35. Observed over wire T with the transit-micrometer set to readings 36° 60.0, 36° 40.0, 36° 20.0, 36° 00.0, 35° 80.0, 35° 60.0, 34° 80.0, 34° 60.0.

36. Observed over wire X with the transit-micrometer set to readings 36° 28.1, 36° 41.2, 36° 47.8, 37° 47.0, 37° 51.7, 37° 57.5, 37° 73.0, 37° 77.5, 37° 81.5, 37° 85.2.

42. Windy.

44. Observed over wire T with the transit-micrometer set to readings 33° 82.5, 33° 64.0, 33° 48.5, 33° 29.5.

48. Observed over wire T with the transit-micrometer set to readings 36° 60.0, 36° 40.0, 36° 20.0, 36° 00.0, 35° 80.0, 35° 60.0, 34° 80.0, 34° 60.0.

25, 26, 27, 44, 52. Cloudy.

45. Faint; cloudy.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Re- duction to Mean R.A. 1895.0.
															Collimation. (Level).	[Azimuth].								
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.											
				s	s	s	s	s	s	s	s	s	s											
1898 Dec. 12	1	Oeltz. Arg. (N.) 3781	B	59.4	3.0	6.9	14.1	18.0	21.9	...	...	...	...	3. 19. 21.80	+ 2.15	21.95			53.46	3. 20. 15.43	- 6.38			
	2	Bradley 476	B	29.6	33.2	37.0	44.4	48.1	52.0	3.1	6.9	10.6	14.5	3. 19. 52.00	(- 1.03)	52.15			[+ 0.16]	3. 20. 45.63	- 6.39			
	3	Groombridge 676	B	19.8	23.5	27.3	34.6	38.2	42.1	...	...	...	...	3. 20. 42.18	[+ 7.36]	42.33				3. 21. 35.81	- 6.40			
	4	Groombridge 677	B	22.9	32.0	41.2	59.4	8.3	17.9	...	...	...	...	3. 24. 17.70		17.30				3. 25. 10.78	- 11.24			
	5	Oeltz. Arg. (N.) 3831-2	B	25.1	34.5	43.7	1.6	10.9	20.1	...	...	...	...	3. 24. 20.07		19.67				3. 25. 13.15	- 11.24			
	6	Carrington 2328 S.P.	B	...	...	...	...	6.9	26.9	45.2	22.1	40.5	59.1	3. 25. 7.59		9.53				15. 26. 3.01	+ 12.39			
	7	Piazzi XV. 136 S.P.	B	...	...	...	15.6	32.6	38.4	44.1	...	...	...	3. 28. 32.56		33.32				15. 29. 26.80	+ 1.22			
	8	Lalande F. 2690 S.P.	B	30.7	47.0	3.0	19.7	6.5	...	...	...	...	...	3. 35. 6.61		8.31				15. 36. 1.79	+ 10.67			
	9	Groomb. 2286 S.P.	B	26.0	45.3	4.8	24.4	...	...	...	...	...	...	3. 37. 21.01		23.02				15. 38. 16.50	+ 13.69			
	10	Groomb. 2271 S.P.	B	...	...	...	...	3.8	11.4	19.1	34.5	...	...	3. 37. 3.52		4.47				15. 37. 57.95	+ 3.28			
	11	B. D. + 76° No. 137	B	...	...	...	4.1	14.5	25.1	...	...	17.2	...	3. 38. 25.20		24.67				3. 39. 18.15	- 12.87			
	12	Groomb. 2322 S.P.	B	44.5	49.6	54.8	59.9	14.4	19.6	...	...	...	...	4. 7. 14.42		15.09				16. 8. 8.58	+ 1.03			
	13	Groomb. 2332 S.P.	B	...	...	...	...	...	46.1	55.5	0.7	5.4	...	4. 14. 35.88		36.55				16. 15. 30.04	+ 1.10			
	14	70 Tauri	B	37.1	39.6	42.1	47.3	50.0	52.5	...	...	...	...	4. 18. 52.49		52.88				4. 19. 46.37	- 5.29			
	15	Oeltz. Arg. (N.) 16188 S.P.	B	...	...	...	8.5	14.0	29.1	34.3	39.9	49.9	...	4. 20. 29.18		29.88				16. 21. 23.37	+ 1.46			
	16	η Draconis S.P.	B	8.0	13.1	18.3	23.6	39.1	44.4	49.6	59.9	5.4	10.4	4. 21. 39.10		39.81				16. 22. 33.30	+ 1.46			
	17	Groomb. 2363 S.P.	B	...	...	...	15.1	53.6	7.2	20.2	...	...	...	4. 24. 53.76		55.21				16. 25. 48.70	+ 9.95			
	18	Groomb. 2356 S.P.	B	...	...	...	...	39.5	47.2	2.8	10.5	18.4	...	4. 25. 31.42		32.39				16. 26. 25.88	+ 4.38			
	19	Flora	B	21.8	24.2	26.8	32.0	34.4	37.1	...	...	...	...	4. 28. 37.06		37.45				4. 29. 30.94	...			
	20	* N.P.D. 77° 10'	B	...	...	...	57.1	59.8	2.1	9.9	12.1	14.7	17.4	4. 29. 2.22		2.62				4. 29. 56.11	- 5.23			
	21	W. B. (2) IV. 601	B	...	...	...	6.5	9.9	13.2	22.9	26.0	29.4	32.9	4. 30. 13.18		13.40				4. 31. 6.89	- 6.44			
	22	W.B. (2) IV. 641-3-5	B	32.0	35.3	38.8	...	...	52.1	...	5.2	8.5	12.0	4. 31. 52.03		52.24				4. 32. 45.73	- 6.54			
	23	Carrington 643...	B	...	...	...	...	...	...	15.9	43.4	10.5	38.0	4. 31. 57.53		55.55				4. 32. 49.04	- 31.68			
	24	W. B. IV. 760	B	13.4	15.9	18.3	23.2	25.6	28.3	...	...	...	...	4. 36. 28.27		28.70				4. 37. 22.19	- 5.09			
	25	B. D. + 7° No. 701	B	56.5	58.9	1.6	6.5	8.8	11.5	18.9	21.4	24.0	26.3	4. 37. 11.48		11.91				4. 38. 5.40	- 5.09			
	26	Lalande 9056	B	16.2	19.3	22.4	28.4	31.7	34.8	43.9	47.0	50.0	53.1	4. 44. 34.73		34.99				4. 45. 28.48	- 6.24			
	27	Groomb. 2386 S.P.	B	...	...	...	...	...	24.9	30.5	36.0	9.5	...	4. 45. 2.76		3.50				16. 45. 56.99	+ 2.13			
	28	Piazzi IV. 204	B	42.2	51.1	0.1	17.4	26.1	35.1	...	...	...	...	4. 50. 34.98		34.61				4. 51. 28.10	- 12.97			
	29	B. D. + 68° No. 360	B	41.2	48.1	54.8	8.5	15.4	22.3	...	...	...	...	4. 53. 22.23		22.05				4. 54. 15.54	- 10.84			
	30	Lalande F. 693	B	10.5	28.0	44.9	1.8	18.7	...	...	...	...	...	4. 54. 44.78		42.16				4. 55. 35.65	- 40.91			
	31	Lalande 9379	B	...	...	...	...	...	40.5	44.1	48.0	51.8	...	4. 55. 29.75		29.91				4. 56. 23.40	- 7.09			
	32	Groomb. 2412 S.P.	B	...	...	11.1	18.2	38.9	46.2	53.1	6.9	...	...	4. 58. 38.93		39.81				16. 59. 33.30	+ 3.95			
	33	Piazzi IV. 253	B	...	...	...	...	...	49.6	0.0	10.5	21.5	...	4. 59. 18.64		18.11				5. 0. 11.60	- 15.03			
	34	Bradley 718	B	16.9	19.5	22.0	26.9	29.4	32.0	39.2	42.0	44.2	47.1	5. 2. 31.96		32.49				5. 3. 25.98	- 4.74			
	35	Piazzi IV. 269	B	31.5	44.3	57.9	23.8	36.8	50.0	...	...	...	...	5. 4. 50.00		49.24				5. 5. 42.73	- 18.04			
	36	B. D. + 79° No. 168	B	32.6	45.5	58.9	25.2	38.1	51.5	...	...	...	...	5. 4. 51.25		50.49				5. 5. 43.98	- 18.08			
	37	Lalande F. 708	B	48.9	4.6	20.7	37.1	52.7	...	...	...	...	...	5. 8. 20.80		18.35				5. 9. 11.84	- 39.66			
	38	Mars 1 L.	B	...	...	...	28.7	31.4	34.1	42.2	45.0	47.8	50.8	5. 10. 34.19		35.18				5. 11. 28.67	...			
	39	Mars 2 L.	B	...	...	...	30.0	32.7	35.6	43.5	46.2	49.2	52.0	5. 10. 35.50						...	...			
	40	Groomb. 2432 S.P.	B	22.6	27.6	32.7	38.0	...	...	...	...	...	...	5. 13. 52.90		53.58				17. 14. 47.07	+ 1.79			
	41	Groomb. 2433 S.P.	B	47.5	52.5	57.5	2.7	...	...	...	...	...	...	5. 14. 17.68		18.36				17. 15. 11.85	+ 1.78			
	42	B. D. + 37° No. 1161	B	35.3	38.4	41.6	47.8	50.9	54.1	3.1	6.1	9.4	12.6	5. 14. 53.98		54.22				5. 15. 47.71	- 6.40			
	43	β Tauri	B	38.1	40.9	43.9	49.4	52.1	55.1	...	...	...	...	5. 18. 55.03		55.34	48.94	53.60		5. 19. 48.84	- 5.93			
	44	Lalande 10143	B	24.0	26.8	29.8	35.4	38.1	41.1	49.6	52.3	55.3	58.1	5. 19. 41.09		41.39				5. 20. 34.89	- 6.01			
	45	B. D. + 30° No. 899	B	25.7	28.5	31.5	37.1	40.0	42.9	51.2	54.1	57.0	0.0	5. 19. 42.84		43.14				5. 20. 36.64	- 6.01			
	46	Piazzi V. 125	B	52.0	7.9	23.8	26.3	29.0	...	...	...	...	...	5. 26. 39.55		39.91				5. 27. 33.41	- 5.59			
	47	Piazzi V. 117	B	52.0	56.1	0.5	8.9	13.1	17.5	...	...	...	...	5. 27. 17.43		17.52				5. 28. 11.02	- 7.99			
	48	Groombridge 987	B	...	...	...	...	38.1	49.0	52.7	56.3	0.1	...	5. 27. 38.12		38.28				5. 28. 31.78	- 7.24			
	49	121 Tauri	B	...	...	...	...	...	31.2	34.0	50.1	6.5	...	5. 28. 17.81		18.15				5. 29. 11.65	- 5.74			
	50	ε Orionis	B	52.0	54.6	57.1	2.0	4.5	7.1	14.2	16.9	19.4	22.0	5. 30. 7.02		7.51	1.04	53.53		5. 31. 1.01	- 4.91			
	51	W. B. (2) V. 889	B	51.4	54.1	57.1	2.9	5.6	8.6	17.0	20.0	23.0	25.9	5. 31. 8.60		8.89				5. 32. 2.39	- 6.04			
	52	26 Aurigæ	B	52.2	55.2	58.1	4.0	6.8	9.8	18.1	21.1	24.0	26.9	5. 31. 9.66		9.95				5. 32. 3.45	- 6.04			
	53	Lalande 10632	B	53.0	55.5	58.0	2.9	5.4	7.9	...	...	...	...	5. 32. 7.88		8.37				5. 33. 1.87	- 4.92			
	54	Piazzi V. 173	B	28.4	30.8	33.3	38.1	40.6	43.1	50.5	53.1	55.5	58.1	5. 32. 43.19		43.69				5. 33. 37.19	- 4.88			

1, 25. Observed in dark field with wires illuminated.

30, 37. Observed over wire T with the transit-micrometer set to readings 34° 600, 35° 100, 35° 600, 36° 100, 36° 600.

46. Observed over wires M, N, O, P and Q.

2, 14. Cloudy.

49. Observed over wires W, X, Y and Z.

27. Observed over wires Q, P, O and N.

138855MM.58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[225]

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
Dec. 12	1	Piazzi V. 174.....	B	30°0	32°1	34°9	39°8	42°1	44°9	52°0	54°6	57°1	59°6	5. 32. 44.73	+ 2°15	45°25			53°46	5. 33. 38.75	-	4°88
	2	α Columbae	B	44°9	48°1	50°9	56°9	0°0	3°1	11°9	14°8	18°0	20°9	5. 35. 2°99	(- 1°03)	3°74	57°25	53°51	[+ 0°16]	5. 35. 57°24	-	4°21
	3	Lacaille 1990.....	B	54°1	56°9	59°8	5°4	8°1	10°9	19°1	22°1	24°8	27°8	5. 44. 10°94	[+ 7°36]	11°64				5. 45. 5°14	-	4°30
	4	Groombridge 1033	B	10°4	14°7	19°4	28°1	32°5	37°0	50°0	54°5	58°9	3°5	5. 47. 36°97		37°04				5. 48. 30°54	-	8°28
	5	Oeltz. Arg. (N.) 6311	B	29°5	33°9	38°2	47°1	51°5	56°0	8°9	13°1	17°9	22°2	5. 47. 55°90		55°97				5. 48. 49°47	-	8°29
	6	Groombridge 1036	B	...	...	25°1	33°9	38°0	42°5	55°7	0°1	...	...	5. 48. 42°64		42°71				5. 49. 36°21	-	8°28
	7	Juno	B	6°0	8°2	10°8	15°6	18°1	20°6	28°0	30°4	32°9	35°4	5. 51. 20°64		21°13				5. 52. 14°63		
	8	Carrington 2725 S.P.	B	32°9	50°4	7°2	24°9	...	...	...	...	...	...	6. 1. 15°08		16°88				18. 2. 10°38	+ 16°39	
	9	Groomb. 2548 S.P.	B	0°0	10°9	21°5	32°1	43°1	...	...	...	...	...	6. 1. 21°52		23°73				18. 2. 17°23	+ 21°78	
	10	Oeltz. Arg. (N.) 6590	B	9°1	13°1	17°0	25°2	29°1	33°1	...	...	...	...	6. 4. 33°17		33°28				6. 5. 26°78	-	7°78
	11	W. B. VI. 85.....	B	14°6	17°1	19°9	24°8	27°4	30°0	...	...	...	...	6. 5. 29°89		30°31				6. 6. 23°81	-	5°29
	12	Groombridge 1112	B	...	...	...	...	...	...	56°0	59°4	2°6	6°0	6. 5. 46°25		46°46				6. 6. 39°96	-	6°71
	13	Groombridge 1108	B	...	...	...	...	...	...	50°1	54°6	59°2	4°0	6. 6. 36°71		36°75				6. 7. 30°25	-	8°47
	14	Groombridge 1120	B	57°1	1°6	6°1	15°0	19°5	24°1	...	...	...	...	6. 8. 24°09		24°14				6. 9. 17°64	-	8°42
	15	H. P. 1176.....	B	24°1	26°6	29°2	34°1	36°7	39°3	46°6	49°1	51°7	54°2	6. 9. 39°20		39°74				6. 10. 33°24	-	4°69
	16	Vesta	B	27°6	30°2	33°0	38°1	40°7	43°5	51°1	54°0	56°5	59°2	6. 11. 43°43		43°79				6. 12. 37°29		
	17	8 Monocerotis ...	B	11°5	14°0	16°5	21°5	24°0	...	33°8	36°0	38°8	41°2	6. 17. 26°41		26°86				6. 18. 20°36	-	5°05
	18	Bradley 932	B	12°0	14°5	17°0	22°0	24°5	26°9	34°2	36°6	39°3	41°8	6. 17. 26°92		27°37				6. 18. 20°87	-	5°05
	19	Carrington 889 ...	B	18°9	26°0	33°2	38°2	44°6	51°5	...	...	...	...	6. 21. 26°47		23°69				6. 22. 17°19	-	46°09
	20	Groomb. 2584 S.P.	B	...	...	59°8	4°6	18°9	24°0	28°9	38°5	...	...	6. 24. 19°02		19°69				18. 25. 13°19	+ 1°75	
	21	42 Draconis S.P.	B	...	...	...	...	...	...	8°0	13°5	19°6	55°8	6. 24. 44°01		44°80				18. 25. 38°30	+ 3°09	
	22	W. B. (2) VI. 835	B	40°5	43°1	45°9	50°9	53°5	56°1	3°7	6°2	8°8	11°6	6. 29. 56°07		56°45				6. 30. 49°95	-	5°42
	23	γ Geminorum ...	S	38°3	41°0	43°9	48°8	51°3	54°0	1°5	4°2	6°9	9°6	6. 30. 53°99		54°37	47°63	53°26	53°20	.....		
	24	Groomb. 2630 S.P.	B	57°2	3°0	8°5	14°1	...	...	...	...	...	...	6. 33. 30°56		31°30			53°46	18. 34. 24°80	+ 2°59	
	25	Oeltz. Arg. (N.) 18486 S.P.	B	...	55°5	0°9	6°2	21°9	27°4	32°6	43°1	48°4	...	6. 34. 21°90		22°61				18. 35. 16°11	+ 2°22	
	26	Oeltz. Arg. (N.) 18495 S.P.	B	...	...	...	38°0	54°0	59°1	4°1	...	...	...	6. 34. 53°69		54°40				18. 35. 47°90	+ 2°23	
	27	Groomb. 2642 S.P.	B	...	...	...	57°6	12°5	17°5	22°9	...	...	...	6. 36. 12°52		13°20				18. 37. 6°70	+ 1°92	
	28	Groomb. 2645 S.P.	B	...	...	...	...	...	48°7	54°1	5°1	10°5	16°0	6. 36. 42°95		43°69				18. 37. 37°19	+ 2°53	
	29	Carrington 2838 S.P.	B	29°2	47°6	5°1	23°5	...	...	...	...	...	...	6. 43. 16°15		18°03				18. 44. 11°53	+ 17°22	
	30	Groomb. 2681 S.P.	B	25°4	30°2	35°5	40°5	...	...	...	...	...	...	6. 43. 55°48		56°16				18. 44. 49°66	+ 1°91	
	31	Carrington 972...	B	...	...	...	...	...	...	30°2	48°0	6°0	24°4	6. 44. 37°60		36°40				6. 45. 29°90	-	24°34
	32	Lalande F. 3178 S.P.	B	18°1	26°5	34°9	42°9	51°3	59°3	...	...	...	...	6. 47. 18°13		22°07				18. 48. 15°58	+ 44°93	
	33	B.D. + 72° No. 865 S.P.	B	...	...	...	54°1	18°2	26°6	34°9	...	...	...	6. 49. 18°28		19°28				18. 50. 12°79	+ 5°67	
	34	Groomb. 2720 S.P.	B	35°2	39°9	44°5	49°1	2°9	7°4	...	...	...	...	6. 51. 2°70		3°33				18. 51. 56°84	+ 1°29	
	35	Oeltz. Arg. (N.) 18798 S.P.	B	...	...	...	...	41°3	49°5	56°9	11°9	19°6	27°0	6. 51. 41°57		42°50				18. 52. 36°01	+ 5°00	
	36	Carrington 2863 S.P.	B	...	...	...	...	...	11°1	27°2	59°1	15°1	...	6. 52. 55°05		56°75				18. 53. 50°26	+ 14°92	
	37	ν Draconis S.P.	B	...	...	...	...	40°7	48°8	56°2	11°5	19°3	26°9	6. 54. 40°91		41°86				18. 55. 35°37	+ 5°05	
	38	Groomb. 2747 S.P.	B	33°0	37°6	41°5	46°0	58°6	3°1	7°2	15°9	20°0	24°0	6. 56. 58°63		59°22				18. 57. 52°73	+ 0°85	
	39	Lalande F. (2) 46	B	...	...	...	...	...	...	57°4	19°6	40°9	5°5	6. 57. 50°83		49°24				6. 58. 42°75	-	29°52
	40	Piazzi XVIII. 325 S.P.	B	...	...	...	...	46°6	51°1	55°1	3°7	8°0	12°0	7. 0. 46°71		47°29				19. 1. 40°80	+ 0°79	
	41	Groomb. 2779 S.P.	B	...	...	46°2	50°1	3°1	7°5	12°0	20°7	...	...	7. 5. 3°18		3°79				19. 5. 57°30	+ 0°91	
	42	Groomb. 2781 S.P.	B	...	...	0°2	4°7	17°4	22°0	26°0	34°5	...	...	7. 5. 17°38		17°98				19. 6. 11°49	+ 0°90	
	43	Groomb. 2786 S.P.	B	...	...	...	...	...	42°1	46°4	55°0	59°8	4°0	7. 7. 37°84		38°45				19. 8. 31°96	+ 0°90	
	44	55 Draconis S.P.	B	...	...	...	...	...	31°4	37°4	49°3	55°3	1°3	7. 8. 25°20		25°99				19. 9. 19°50	+ 3°01	
	45	Lacaille 2729 ...	B	24°2	27°1	30°1	36°0	39°1	42°0	...	...	...	...	7. 13. 41°71		42°43				7. 14. 35°94	-	4°05
	46	κ Cygni S.P.	B	...	...	...	...	...	...	3°9	8°1	12°0	37°1	7. 13. 47°46		48°04				19. 14. 41°55	+ 0°59	
	47	Groomb. 2816 S.P.	B	...	...	...	46°1	58°2	2°5	7°0	...	...	...	7. 14. 58°36		58°94				19. 15. 52°45	+ 0°60	
	48	Groomb. 2817 S.P.	B	...	...	48°7	52°7	5°0	9°3	13°3	21°4	...	...	7. 15. 4°99		5°57				19. 15. 59°08	+ 0°59	
	49	Groomb. 2826 S.P.	B	...	...	...	...	...	...	6°3	11°1	38°6	6°1	7. 16. 43°66		44°29				19. 17. 37°80	+ 1°16	
	50	β Canis Minoris...	S	...	29°6	32°0	37°0	39°4	42°0	49°2	52°0	54°4	...	7. 20. 42°00		42°43	35°66	53°23	53°20	.....		
	51	B.D. + 80° No. 614 S.P.	B	...	...	46°1	1°1	44°0	58°9	13°6	42°5	...	...	7. 23. 44°08		45°66			53°46	19. 24. 39°17	+ 12°83	
	52	λ Ursæ Min. S.P.	B	26°9	32°0	36°6	41°5	46°0	50°5	54°1	58°0	2°0	7°9	7. 23. 20°21		32°72	25°93	53°21		.....		
	53	Lalande F. 3268 S.P.	B	50°0	1°0	10°9	21°9	32°1	...	...	...	...	...	7. 27. 11°18		13°34				19. 28. 6°85	+ 20°06	

- 9, 53. Observed over wire T with the transit-micrometer set to readings 36°'600, 36°'100, 35°'600, 35°'100, 34°'600.
 19. Observed over wire T with the transit-micrometer set to readings 37°'045, 37°'247, 37°'459, 37°'601, 37°'765, 37°'972.
 21, 46. Observed over wires Q, P, O and N.
 32. Observed over wire T with the transit-micrometer set to readings 35°'600, 35°'400, 35°'200, 35°'000, 34°'800, 34°'600.
 49. Observed over wires P, O, N and M.
 52. Observed over wire T with the transit-micrometer set to readings 34°'693, 34°'651, 34°'615, 34°'590, 34°'563, 34°'534, 34°'500, 34°'460, 34°'433, 34°'390.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Dec. 12	1	Lalande 14783 ...	B	...	...	...	...	...	...	12.2	15.1	31.5	47.7	7. 27. 58.88	+ 2.15	59.54			53.46	7. 28. 53.05	- 4.15
	2	Groomb. 2885 S.P.	B	...	...	10.0	14.7	28.9	34.0	38.5	48.1	...	...	7. 30. 28.93	(- 1.03)	29.59			[+ 0.16]	19. 31. 23.10	+ 1.39
	3	σ Draconis S.P.	B	...	...	7.5	14.9	35.7	42.8	49.9	3.9	...	...	7. 31. 35.64	[+ 7.36]	36.53				19. 32. 30.04	+ 3.94
	4	Groomb. 2899 S.P.	B	...	...	...	27.5	43.9	49.1	54.9	...	...	...	7. 32. 43.73		44.45				19. 33. 37.96	+ 2.16
	5	Oeltz. Arg. (N.) 1949 S.P.	B	...	...	...	...	...	...	5.1	14.0	18.4	23.1	7. 32. 55.98		56.60				19. 33. 50.11	+ 0.98
	6	* N.P.D. 33° 14' S.P.	B	...	...	...	...	...	...	31.8	40.0	44.7	49.0	7. 33. 22.20		22.82				19. 34. 16.33	+ 0.97
	7	Groomb. 2930 S.P.	B	...	...	...	...	...	28.6	38.1	56.0	5.2	14.1	7. 36. 19.80		20.89				19. 37. 14.40	+ 6.24
	8	Bradley 1116	B	...	...	...	...	...	...	48.7	51.4	54.0	56.9	7. 37. 40.45		41.12				7. 38. 34.63	- 4.09
	9	W. B. VII. 1184..	B	52.2	54.9	57.4	2.1	4.9	7.2	...	...	...	...	7. 40. 7.26		7.78				7. 41. 1.29	- 4.56
	10	Lalande 15112 ...	B	...	...	...	24.0	26.9	29.8	37.8	40.2	42.9	45.9	7. 40. 29.65		29.99				7. 41. 23.50	- 5.52
	11	82 Geminorum...	B	...	...	...	26.7	29.4	32.1	40.1	42.9	45.5	48.2	7. 41. 32.13		32.47				7. 42. 25.98	- 5.52
	12	ρ Argus	B	48.7	51.5	54.1	59.5	2.1	5.1	13.0	15.9	18.5	21.4	7. 44. 5.02		5.68	59.28	53.60		7. 44. 59.19	- 4.11
	13	Groombridge 1376	B	21.0	26.0	30.9	40.6	45.9	51.0	5.2	10.2	15.4	20.5	7. 45. 50.74		50.74				7. 46. 44.25	- 8.59
	14	Groombridge 1377	B	...	22.0	26.6	36.4	41.4	46.5	1.1	6.0	10.9	...	7. 46. 46.46		46.47				7. 47. 39.98	- 8.56
	15	52 Camelopardi ..	B	...	...	...	...	...	...	28.6	33.1	37.9	42.6	7. 47. 15.37		15.42				7. 48. 8.93	- 8.07
	16	ρ Argus	B	0.4	3.2	6.0	11.4	14.0	16.9	24.7	27.4	30.1	33.0	8. 2. 16.75		17.41	10.89	53.48		8. 3. 10.92	- 4.05
	17	Piazzi XX. 42 S.P.	B	55.8	1.9	7.0	...	...	...	...	50.9	56.5	2.0	8. 4. 28.96		29.70				20. 5. 23.21	+ 1.86
	18	Groomb. 3071 S.P.	B	...	...	...	...	...	6.5	11.0	19.6	24.0	28.3	8. 6. 2.06		2.67				20. 6. 56.18	+ 0.55
	19	B.D. - 5° No. 2446	B	2.8	5.2	7.9	12.9	15.2	17.8	25.0	27.6	30.0	32.6	8. 8. 17.74		18.25				8. 9. 11.76	- 4.49
	20	68 Draconis S.P.	B	...	...	...	...	...	57.0	2.1	7.5	17.9	23.1	8. 8. 56.98		57.69				20. 9. 51.20	+ 1.48
	21	Groomb. 3123 S.P.	B	...	57.7	3.3	8.8	24.8	30.4	35.8	46.3	52.0	...	8. 11. 24.79		25.51				20. 12. 19.02	+ 1.66
	22	B. D. + 80° No. 254	B	28.1	43.8	59.5	29.8	45.1	0.1	45.9	1.1	16.4	32.6	8. 15. 0.47		59.50				8. 15. 53.01	- 19.29
	23	Groombridge 1464	R	48.1	51.6	55.1	1.6	4.8	8.1	18.1	21.5	24.9	28.2	8. 32. 8.25		8.46			53.35	8. 33. 1.87	- 6.19
	24	α Cancri	R	43.9	46.2	48.9	54.0	56.3	58.9	6.2	8.9	11.5	14.0	8. 51. 58.92		59.33	52.76	53.43		.....	.....
	25	Groomb. 3361 S.P.	R	...	...	20.7	25.4	38.1	42.6	46.9	55.1	...	...	8. 54. 38.04		38.65				20. 55. 32.06	- 0.06
	26	Groomb. 3393 S.P.	R	...	...	...	42.1	55.3	59.6	4.4	12.9	17.1	21.5	9. 0. 55.38		55.98				21. 1. 49.39	- 0.15
	27	Groomb. 3405 S.P.	R	...	...	...	...	...	...	33.4	42.4	47.3	51.5	9. 5. 24.46		25.08				21. 6. 18.49	- 0.03
	28	Piazzi XXI. 86 S.P.	R	48.0	52.5	56.8	...	...	...	...	31.4	36.0	40.2	9. 13. 14.09		14.70				21. 14. 8.11	- 0.30
	29	α Hydræ	R	23.9	26.3	28.9	33.9	36.1	38.8	46.1	48.7	51.1	53.9	9. 21. 38.81		39.34	32.69	53.35		.....	.....
	30	Groomb. 3479 S.P.	R	...	...	...	...	...	30.6	41.6	2.7	13.6	24.0	9. 22. 19.90		21.12				21. 23. 14.53	+ 5.01
	31	Groomb. 3510 S.P.	R	11.5	16.2	20.9	25.5	38.9	43.4	48.0	56.9	1.6	6.0	9. 31. 38.82		39.45				21. 32. 32.86	- 0.41
	32	ε Leonis	R	51.8	54.3	57.1	2.4	5.2	8.0	16.0	18.7	21.5	24.1	9. 39. 7.95		8.28	1.73	53.45		.....	.....
	33	Lalande F. 1479..	R	30.2	42.0	51.3	4.6	16.8	26.7	36.1	46.0	54.0	5.2	9. 42. 35.56		31.69				9. 43. 25.10	- 39.51
	34	Lacaille 4072	R	...	...	...	...	...	48.9	57.4	0.3	3.2	6.1	9. 50. 48.91		49.63				9. 51. 43.05	- 3.55
	35	Groomb. 3708 S.P.	R	25.5	29.6	33.5	37.7	49.4	53.6	57.5	5.4	9.4	13.5	10. 6. 49.45		50.02				22. 7. 43.44	- 1.40
	36	γ ¹ Leonis	R	9.1	12.0	14.5	19.8	22.2	25.1	32.8	35.5	38.2	40.8	10. 13. 25.04		25.40	18.82	53.42		.....	.....
	37	Groomb. 3749 S.P.	R	25.0	29.6	33.6	37.9	50.7	55.2	59.4	8.0	12.2	16.5	10. 15. 50.75		51.34				22. 16. 44.76	- 1.35
	38	Groomb. 3759 S.P.	R	...	...	...	...	...	36.6	40.9	44.8	52.1	56.0	10. 18. 36.71		37.25				22. 19. 30.67	- 1.67
	39	α Antlia	R	15.6	18.5	21.5	26.9	30.0	32.8	41.3	44.1	46.9	50.0	10. 21. 32.80		33.52				10. 22. 26.94	- 3.43
	40	W. B. X. 425	R	...	37.6	40.0	45.1	47.7	50.1	57.7	0.0	2.5	...	10. 25. 50.14		50.57				10. 26. 43.99	- 4.15
	41	34 Sextantis	R	10.4	12.9	15.4	20.2	22.9	25.4	32.5	35.1	37.6	40.1	10. 36. 25.29		25.74	19.21	53.47		.....	.....
	42	Groomb. 3877 S.P.	R	13.0	...	21.2	25.1	37.0	41.0	45.2	53.0	...	1.3	10. 39. 37.04		37.61				22. 40. 31.03	- 1.93
	43	B. D. + 72° 1071 S.P.	R	...	...	...	...	...	...	6.0	14.1	31.3	40.0	10. 48. 57.52		58.53				22. 49. 51.95	+ 0.05
	44	δ Leonis	R	6.4	8.9	11.5	16.2	18.9	21.4	28.6	31.1	33.6	36.1	10. 54. 21.31		21.76	15.20	53.44		.....	.....
	45	Groomb. 3964 S.P.	R	45.3	50.1	55.0	59.9	14.2	19.4	24.1	33.6	38.5	43.4	10. 57. 14.28		14.94				22. 58. 8.36	- 1.83
	46	Lacaille 4606	R	50.0	52.6	55.5	1.3	4.0	6.9	15.2	18.1	21.1	24.0	11. 2. 6.91		7.61				11. 3. 1.03	- 3.33
	47	B. A. C. 3823	R	49.6	52.2	55.4	0.9	3.7	6.6	14.9	18.0	20.8	23.5	11. 4. 6.60		7.30				11. 5. 0.72	- 3.33
	48	ι Leonis (2nd Star) ...	R	25.1	27.8	30.2	35.3	37.7	40.2	47.7	50.1	52.8	55.4	11. 17. 40.27		40.69				11. 18. 34.12	- 3.81
	49	Groombridge 1775	R	42.0	45.5	48.9	...	59.0	2.6	12.2	...	19.1	22.8	11. 19. 2.40		2.61				11. 19. 56.04	- 4.32
	50	τ Leonis	R	...	32.7	35.3	40.1	42.5	45.1	52.4	54.9	57.4	...	11. 21. 45.10		45.55	38.98	53.43		.....	.....
	51	Groombridge 1789	R	...	...	...	...	...	34.3	44.3	47.9	...	54.8	11. 23. 34.38		34.58				11. 24. 28.01	- 4.26
	52	ν Leonis	R	32.0	34.8	37.2	42.0	44.6	47.1	54.4	56.9	59.4	1.9	11. 30. 47.07		47.55	40.95	53.40		.....	.....
	53	Groombridge 1813	R	5.2	8.6	12.2	19.4	22.8	26.3	36.9	40.4	44.1	47.9	11. 33. 26.44		26.62				11. 34. 20.05	- 4.17

11. Observed over wires W, X, Y and Z.

25, 26, 27, 34, 43. Observed in dark field with wires illuminated.

33. Observed over wire T with the transit-micrometer set to readings 35° 470, 35° 728, 35° 922, 36° 219, 36° 455, 36° 674, 36° 868, 37° 047, 37° 227, 37° 440.

34. Scarcely visible.

1892.11.15.58A...1C

AT THE ROYAL OBSERVATORY, GREENWICH, IN THE YEAR 1896.

[227]

MO.	DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0° Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896°.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
					I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Corrections for passage of Semidiameter, Nos. 8, 11, and 18, + 62.873 : + 0.58 : and + 64.873.

7. Observed over wire O with the transit-micrometer set to readings 34^r.498, 34^r.563, 34^r.856, 34^r.903, 34^r.972, 35^r.069, 35^r.302.
 8. Correction to R.A. on true meridian, + 0.01.
 9, 10. Cloudy.
 17. Observed over wire T with the transit-micrometer set to readings 35^r.349, 35^r.524, 35^r.614, 36^r.375, 36^r.430, 36^r.506, 36^r.646, 36^r.710, 36^r.771, 36^r.886.
 18. Correction to R.A. on true meridian, + 0.02.
 44, 45, 46, 48. Observed in dark field with wires illuminated.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). [Azimuth].	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896-0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Dec. 15	1	λ Ursæ Min. S.P.	CD	24.5	29.5	36.5	42.0	49.9	21.4	27.8	34.0	41.3	52.1	7. 23. 25.17	+ 2.52	31.30	23.81	52.51	53.93	.....	
	2	Lalande F. 3468 S.P.	CD	18.8	29.3	40.2	50.6	1.5	22.1	32.5	43.5	53.9	4.0	7. 27. 11.64	(+ 0.59)	12.89			[+ 0.17]	19. 28. 6.87	+ 20.42
	3	Groomb. 2885 S.P.	CD	59.8	4.9	...	14.7	28.7	34.0	38.5	...	53.1	57.9	7. 30. 28.88	[+ 7.24]	29.40				19. 31. 23.38	+ 1.43
	4	σ Draconis S.P.	CD	...	...	...	...	35.1	42.5	49.6	3.6	10.5	17.5	7. 31. 35.26		35.90				19. 32. 29.88	+ 4.03
	5	Groomb. 2952 S.P.	CD	...	...	...	...	28.9	36.1	42.9	56.5	3.5	10.5	7. 43. 28.94		29.57				19. 44. 23.55	+ 3.82
	6	Groombridge 1366	CD	...	...	5.8	34.0	47.9	2.1	43.8	58.0	...	...	7. 47. 2.21		2.06				7. 47. 56.05	- 19.23
	7	Piazzi XIX. 370 S.P.	AC	...	...	51.2	55.1	8.5	12.9	17.6	26.0	...	...	7. 53. 8.46		8.97				19. 54. 3.15	+ 0.81
	8	6 Cancri.....	CD	2.2	5.0	8.0	13.5	16.2	19.1	27.4	30.1	33.0	36.0	7. 56. 19.09		19.54	13.59	54.05	53.93	7. 57. 13.53	- 5.74
	9	65 Draconis S.P.	AC	40.0	46.0	51.8	57.3	14.1	20.1	25.9	37.1	42.6	48.5	8. 0. 14.25		14.82			54.12	20. 1. 9.00	+ 2.21
	10	W. B. (2) VIII. 23	AC	51.1	54.2	57.7	4.4	7.8	11.3	21.4	24.9	28.1	31.6	8. 5. 11.30		11.67				8. 6. 5.85	- 6.61
	11	Cape 1880 No. 4198...	AC	27.1	29.5	32.1	37.0	39.6	42.1	49.4	52.0	54.2	56.8	8. 7. 42.02		42.62				8. 8. 36.80	- 4.57
	12	B. D. - 5° No. 2446	AC	2.1	4.7	7.2	12.2	14.5	17.1	24.5	27.1	29.5	32.0	8. 8. 17.13		17.73				8. 9. 11.91	- 4.57
	13	Groomb. 3162 S.P.	AC	...	...	49.7	53.9	...	10.6	15.0	23.6	...	...	8. 18. 6.46		6.95				20. 19. 1.13	+ 0.40
	14	Piazzi XX. 222 S.P.	AC	31.8	36.9	41.8	46.9	1.5	6.6	11.5	21.2	26.2	31.4	8. 29. 1.51		2.04				20. 29. 56.22	+ 1.00
	15	Lalande F. 3588 S.P.	AC	13.4	23.1	32.9	42.9	53.3	...	...	...	...	...	8. 33. 33.12		34.32				20. 34. 28.50	+ 16.14
	16	Lalande F. 3613 S.P.	AC	...	...	...	...	42.5	0.9	17.5	51.2	8.2	24.9	8. 40. 43.10		44.18				20. 41. 38.36	+ 13.02
	17	α Cancri	AC	42.9	45.5	48.0	53.0	55.7	58.1	5.6	8.1	10.7	13.2	8. 51. 58.12		58.63	52.85	54.22		.....	
	18	Carrington 1296..	AC	...	...	40.0	27.2	51.1	16.9	25.4	50.1	...	...	8. 55. 15.59		15.02				8. 56. 9.20	- 26.02
	19	κ Cancri	AC	2.0	4.4	7.0	12.0	14.5	16.9	24.4	26.9	29.4	32.0	9. 1. 16.99		17.51	11.65	54.14		.....	
	20	W. B. (2) IX. 248-9	AC	...	...	52.7	58.1	1.5	4.1	13.2	16.2	...	...	9. 14. 4.35		4.77				9. 14. 58.96	- 5.56
	21	β Draconis.	B	45.5	49.5	53.8	1.8	6.0	10.0	22.0	26.0	30.0	34.1	17. 27. 9.93		10.27			54.02	17. 28. 4.41	+ 0.56
	22	α Ophiuchi	B	58.4	0.9	3.4	8.4	11.0	13.6	21.1	23.7	26.2	28.9	17. 29. 13.60		14.11	8.25	54.14		.....	
Dec. 16	23	⊙ 1 L.....	B	15.8	18.4	21.1	26.5	29.1	32.0	40.0	42.8	45.5	48.1	17. 36. 31.97						17. 38. 37.99	
	24	⊙ 2 L.....	B	38.1	40.9	43.5	48.8	51.5	54.3	2.2	5.0	7.9	10.6	17. 38. 54.32							
Dec. 17	25	Venus 1 L.....	H	34.6	...	40.0	45.1	48.0	50.7	58.5	1.1	...	6.5	20. 33. 50.60	[+ 7.89]	51.32			53.92	20. 34. 45.97	
	26	ζ Cygni	H	20.8	23.5	26.3	32.0	34.9	37.8	46.1	49.0	52.0	55.0	21. 7. 37.78		38.23	32.42	54.19	[+ 0.18]	21. 8. 32.31	- 1.85
	27	β Aquarii	H	58.4	0.9	3.3	8.1	10.8	13.3	20.5	23.1	25.5	28.1	21. 25. 13.24		13.87	8.01	54.14		21. 26. 7.95	- 2.99
	28	ε Pegasi	H	57.5	59.9	2.6	7.5	10.0	12.8	20.1	22.5	25.1	27.7	21. 38. 12.61		13.16	7.33	54.17		21. 39. 7.24	- 2.71
	29	θ Aquarii	H	14.3	16.8	19.4	24.2	26.8	29.3	36.7	39.1	41.8	44.2	22. 10. 29.30		29.95	23.96	54.01		22. 11. 24.04	- 3.25
	30	Polaris	H	11.1	50.3	59.0	35.1	7.1	15.9	22.5	...	...	...	1. 20. 41.46		35.91	30.02	54.11		.....	
	31	β Arietis	H	47.6	50.3	53.0	58.5	1.0	3.5	11.4	14.0	...	...	1. 48. 3.57		4.08	58.06	53.98		1. 48. 58.19	- 4.50
	32	α Arietis	H	...	15.1	17.9	23.1	25.9	28.6	36.5	39.2	42.0	...	2. 0. 28.59		29.08	23.20	54.12		2. 1. 23.20	- 4.66
	33	α Arietis ... (B&E)	H	4.3	20.4	...	...	...	24.8	40.9	...	...	...	2. 0. 28.13		28.62	23.20	54.58		.....	
	34	Oeltz. Arg. (N.) 16188 S.P.	H	...	...	...	...	29.5	34.4	39.4	50.1	55.4	0.8	4. 20. 29.26		29.90				16. 21. 24.03	+ 1.38
	35	τ Tauri	H	...	57.9	0.5	5.7	8.2	11.1	19.0	21.7	24.6	...	4. 35. 11.14		11.63	5.70	54.07		4. 36. 5.76	- 5.61
Dec. 18	36	β Arietis	AC	...	50.0	52.7	57.8	0.4	3.1	10.9	13.5	16.2	...	1. 48. 3.13	[+ 6.62]	3.59	58.06	54.47	54.63	.....	
	37	α Arietis	C	12.1	14.8	17.5	23.1	...	...	36.2	...	...	43.8	2. 0. 28.19		28.64	23.19	54.55	[+ 0.25]	.....	
	38	ξ Ceti.....	C	23.6	26.1	28.6	33.5	36.0	38.6	46.0	48.5	51.1	53.8	2. 6. 38.62		39.12	33.64	54.52		.....	
	39	δ Ceti	C	...	44.4	46.9	52.0	54.5	57.1	4.4	6.9	9.1	...	2. 10. 56.96		57.53	52.07	54.54		.....	
	40	67 Ceti	C	3.6	6.0	8.4	13.6	16.0	18.5	25.8	28.2	30.8	33.3	2. 33. 18.46		19.00	13.59	54.59		.....	
	41	γ² Ceti	C	...	51.6	54.1	59.1	1.5	4.1	11.3	13.9	16.5	...	2. 37. 4.06		4.59	59.18	54.59		.....	
	42	σ Arietis	C	39.4	42.0	44.5	49.5	52.1	54.9	2.2	4.9	7.3	10.0	2. 44. 54.72		55.19	49.75	54.56		.....	
	43	Groomb. 2210 S.P.	C	38.0	53.4	8.2	25.1	41.4	58.5	14.7	29.0	...	...	2. 49. 3.54		5.11				14. 49. 59.68	+ 23.99
	44	Oeltz. Arg. (N.) 3831-2	AC	23.2	32.1	42.0	59.3	9.5	18.2	...	...	...	...	3. 24. 18.09		18.22			54.63	3. 25. 12.89	- 11.14
	45	Groomb. 2240 S.P.	AC	...	...	3.8	8.1	20.9	25.5	29.8	38.4	...	...	3. 25. 20.99		21.41				15. 26. 16.08	- 0.28
	46	Piazzi XV. 136 S.P.	AC	58.0	3.8	9.5	14.9	32.0	38.0	43.7	54.9	0.9	6.2	3. 28. 32.10		32.59				15. 29. 27.26	+ 1.04
	47	Groomb. 2286 S.P.	AC	...	...	...	25.1	22.1	41.3	0.1	...	...	...	3. 37. 21.75		22.70				15. 38. 17.37	+ 13.37
	48	η Tauri	AC	12.0	14.6	17.6	22.8	25.6	28.2	36.1	38.9	41.7	44.3	3. 40. 28.22		28.66	23.41	54.75		.....	
	49	Piazzi XV. 198 S.P.	AC	...	42.0	47.5	52.5	8.9	...	...	...	...	...	3. 44. 8.87		9.34				15. 45. 4.01	+ 1.02
	50	Groomb. 2279 S.P.	AC	...	...	...	...	...	...	40.1	50.1	54.2	59.2	3. 44. 30.00		30.45				15. 45. 25.12	+ 0.53
	51	Groomb. 2281 S.P.	AC	...	...	...	...	36.2	41.2	46.1	55.8	1.1	6.0	3. 44. 36.27		36.72				15. 45. 31.39	+ 0.55

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 33, — 84°.52.
Correction for passage of Semidiameter, No. 25, + 0°.58.

- Observed over wire T with the transit-micrometer set to readings 36°.035, 36°.000, 35°.940, 35°.904, 35°.800, 35°.201, 35°.162, 35°.136, 35°.049, 35°.004.
- Observed over wire T with the transit-micrometer set to readings 38°.100, 37°.600, 37°.100, 36°.600, 36°.100, 35°.100, 34°.600, 33°.600, 33°.100.
- 11, 12, 13, 18, 34, 44, 45, 46, 50, 51. Observed in dark field with wires illuminated.
- Observed over wire T with the transit-micrometer set to readings 36°.600, 36°.100, 35°.600, 35°.100, 34°.600.
- Observed over wire T with the transit-micrometer set to readings 34°.812, 35°.673, 35°.760, 36°.053, 36°.368, 36°.410, 36°.486.
- Very faint.
- Observed over wire T with the transit-micrometer set to readings 37°.800, 37°.400, 37°.000, 36°.600, 34°.600, 34°.200, 33°.800, 33°.400.
- Very faint; scarcely visible.

MONTH DAY	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
1898				s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	h	m	s	s
Dec. 18	1	A ¹ Tauri.....	AC	26.9	29.7	32.2	37.6	40.2	42.9	50.9	53.5	56.2	59.0	3. 57. 42.95	+ 2.52	43.41	38.14	54.73	54.63			
	2	ω ¹ Tauri	R. AC	1.1	3.5	6.1	11.2	14.0	16.6	...	...	...	...	4. 2. 16.62	(+ 0.59)	17.01	11.68	54.67	[+ 0.25]	.....		
	3	Carrington 2447 S.P.	AC	...	...	...	...	...	32.2	...	26.7	...	...	4. 11. 15.04	[+ 6.62]	15.95	...	...	...	16. 12. 10.62	+ 13.96	
	4	Lalande 8129-0...	AC	...	...	...	...	...	...	28.0	30.9	33.6	36.1	4. 13. 20.13	...	20.78	...	...	...	4. 14. 15.45	- 4.48	
	5	Lalande 8312-3...	AC	37.8	40.2	43.1	48.5	...	53.8	...	...	7.8	...	4. 17. 54.01	...	54.68	...	...	...	4. 18. 49.35	- 4.45	
	6	Carrington 2498 S.P.	AC	...	12.6	43.1	10.4	29.3	...	...	...	...	...	4. 29. 29.73	...	30.93	...	...	...	16. 30. 25.61	+ 24.85	
	7	Groombridge 845	AC	...	...	...	25.5	32.9	40.1	1.1	...	...	...	4. 30. 40.05	...	40.24	...	...	...	4. 31. 34.92	- 10.91	
	8	Carrington 643...	AC	54.1	42.0	51.2	58.7	8.0	15.7	...	...	...	...	4. 31. 54.66	...	54.22	...	...	...	4. 32. 48.90	- 31.68	
	9	Carrington 2502 S.P.	AC	14.1	23.1	30.0	36.0	...	...	...	...	...	...	4. 35. 28.48	...	29.39	...	...	...	16. 36. 24.07	+ 15.38	
	10	Groombridge 870	AC	...	...	...	...	42.0	1.1	8.0	14.6	21.6	...	4. 39. 41.88	...	42.10	...	...	...	4. 40. 36.78	- 10.47	
	11	Δ I L.....	AC	21.4	24.0	27.0	32.6	35.5	38.4	46.9	49.7	52.5	55.5	4. 44. 38.39	...	38.83	...	...	...	4. 46. 43.66		
	12	B. D. + 68° No. 360	AC	39.6	46.2	53.5	7.0	13.5	20.5	...	...	...	...	4. 53. 20.56	...	20.77	...	...	...	4. 54. 15.45	- 10.92	
	13	W. B. (2) IV. 1227	AC	19.5	22.2	24.9	30.2	32.9	36.0	44.0	46.8	49.6	52.1	4. 55. 35.86	...	36.30	...	...	...	4. 56. 30.98	- 5.74	
	14	Piazzi XVI. 291 S.P.	AC	...	...	...	...	...	40.1	49.1	53.4	58.4	...	4. 56. 31.03	...	31.46	...	...	...	16. 57. 26.14	+ 0.94	
	15	Groomb. 2412 S.P.	AC	...	...	10.8	17.9	38.1	45.9	52.3	6.6	...	...	4. 58. 38.46	...	39.00	...	...	...	16. 59. 33.68	+ 3.90	
	16	Mars 1 L.....	AC	28.1	30.8	33.8	39.1	41.9	44.5	52.5	55.5	58.1	0.9	5. 0. 44.56	...	45.68	...	...	...	5. 1. 40.36		
	17	Mars 2 L.....	AC	29.5	32.1	35.0	40.3	43.1	45.9	54.0	56.8	59.5	2.5	5. 0. 45.91	...	...	...	...	...	5. 9. 11.11	- 39.88	
	18	Lalande F. 708...	AC	12.2	28.8	45.1	0.8	33.2	49.2	5.0	22.0	...	...	5. 8. 17.04	...	16.43	...	...	...	5. 11. 11.32		
	19	Neptune.....	AC	0.2	3.0	5.6	11.1	13.5	16.1	24.0	26.7	29.2	32.0	5. 10. 16.18	...	16.64	...	...	...	5. 11. 16.46	- 29.43	
	20	Lalande F. 715-6	AC	...	...	...	...	...	28.9	52.5	15.8	38.5	...	5. 10. 22.09	...	21.78	...	...	...	5. 11. 16.46		
	21	β Tauri	R. AC	3.4	20.2	37.1	39.6	42.5	...	...	...	...	...	5. 18. 53.86	...	54.21	49.01	54.80	.....	5. 27. 47.01	- 13.46	
	22	β Tauri	AC	...	...	...	...	...	2.2	5.4	8.0	10.7	...	5. 18. 54.01	...	54.44	49.01	54.57	.....	5. 28. 27.44	- 19.39	
	23	Oeltz. Arg. (N.) 5928	AC	0.2	9.0	17.4	35.3	43.1	52.3	...	...	...	...	5. 26. 52.17	...	52.32	...	...	...	5. 29. 54.33	- 13.83	
	24	Oeltz. Arg. (N.) 5896	AC	...	...	...	...	18.1	33.4	12.9	27.1	...	...	5. 27. 32.77	...	32.75	...	...	...	5. 33. 46.79	- 5.13	
	25	Groombridge 981	AC	...	...	...	...	...	...	44.0	53.1	46.0	...	5. 28. 59.50	...	59.64	...	...	...	5. 33. 46.79		
	26	ω Orionis.....	AC	...	...	...	...	...	51.5	59.1	1.4	3.8	6.4	5. 32. 51.58	...	52.10	...	...	...	5. 33. 46.79		
Dec. 21	27	Groomb. 2420 S.P.	WB	35.5	44.3	53.3	2.2	27.3	36.8	45.1	2.1	11.5	19.8	5. 2. 27.66	+ 2.85	28.06	...	...	55.46	17. 3. 23.57	+ 5.85	
	28	Rigel	WB	26.1	28.7	31.1	36.1	38.5	41.2	48.6	50.9	53.5	56.1	5. 8. 41.12	(- 0.33)	41.61	37.15	55.54	.....	.....		
	29	Neptune.....	WB	38.0	40.9	43.5	48.8	51.4	54.1	2.0	4.8	7.5	9.9	5. 9. 54.13	[+ 5.35]	54.50	...	...	...	5. 10. 50.01		
	30	β Tauri	WB	36.3	39.1	42.0	47.5	50.1	53.1	1.5	4.2	7.1	10.0	5. 18. 53.13	...	53.49	49.01	55.52	.....	.....		
	31	20 Camelopardi...	WB	25.6	29.9	34.1	43.1	47.5	52.1	5.3	9.9	14.2	18.9	5. 27. 52.13	...	52.37	...	...	...	5. 28. 47.89	- 8.44	
	32	29 Draconis S.P.	WB	36.1	45.3	54.3	3.4	30.2	39.9	48.8	6.6	16.2	25.4	5. 34. 30.48	...	30.90	...	...	...	17. 35. 26.42	+ 6.86	
	33	α Orionis.....	WB	27.0	29.3	31.9	...	...	...	...	51.7	54.1	56.7	5. 48. 41.81	...	42.23	37.72	55.49	.....	.....		
	34	Groomb. 2559 S.P.	WB	25.9	30.0	...	...	...	...	...	9.8	13.7	...	6. 18. 49.82	...	50.09	...	...	...	18. 19. 45.62	+ 0.54	
	35	Groomb. 2613 S.P.	WB	53.5	59.0	4.1	...	...	...	...	47.1	52.2	57.7	6. 29. 25.54	...	25.85	...	...	...	18. 30. 21.38	+ 2.39	
	36	Procyon.....	WB	45.9	48.1	50.8	55.8	58.1	0.5	8.0	10.4	13.1	15.5	7. 33. 0.66	...	1.09	56.62	55.53	.....	.....		
	37	Δ 2 L.....	WB	55.1	58.0	0.7	6.1	9.0	11.8	20.0	22.7	25.5	28.1	7. 41. 11.74	...	12.11	...	...	...	7. 40. 57.73		
	38	β Cancri.....	B	46.7	49.1	51.7	56.6	59.2	1.8	9.1	11.8	14.2	16.8	8. 10. 1.74	...	2.15	57.60	55.45	55.43	8. 10. 57.67	- 5.12	
	39	Groombridge 1470	B	46.4	54.1	2.0	16.6	24.1	31.7	53.6	1.0	8.7	16.4	8. 40. 31.57	...	31.73	...	...	...	8. 41. 27.25	- 11.15	
	40	W. B. VIII. 1081	B	...	...	...	24.7	27.3	30.0	...	...	42.5	44.9	8. 43. 29.87	...	30.27	...	...	...	8. 44. 25.79	- 5.08	
	41	W. B. VIII. 1087	B	...	...	...	34.8	37.3	40.0	47.4	...	...	...	8. 43. 39.93	...	40.33	...	...	...	8. 44. 35.85	- 5.08	
	42	α Cancri.....	B	20.6	23.2	25.9	30.9	33.5	36.1	43.8	46.2	48.9	51.6	8. 50. 36.11	...	36.51	...	...	...	8. 51. 32.03	- 5.16	
	43	α Cancri.....	B	...	...	46.9	52.0	54.4	57.1	4.5	7.1	...	...	8. 51. 57.05	...	57.45	53.02	55.57	...	8. 52. 52.97	- 5.05	
	44	Groomb. 3384 S.P.	B	...	26.0	35.8	45.5	...	24.1	34.0	53.1	3.5	...	8. 56. 14.35	...	14.77	...	...	...	20. 57. 10.29	+ 5.67	
	45	Groomb. 3389 S.P.	B	...	29.3	35.5	41.9	0.0	6.1	12.5	24.4	30.9	...	8. 58. 59.96	...	0.30	...	...	...	20. 59. 55.82	+ 1.99	
	46	Groomb. 3404 S.P.	B	...	...	...	...	23.3	28.6	34.0	44.7	50.2	55.8	9. 4. 23.26	...	23.58	...	...	...	21. 5. 19.10	+ 1.11	
	47	Groomb. 3440 S.P.	B	...	...	...	...	15.4	20.0	24.5	33.3	37.7	42.1	9. 16. 15.53	...	15.81	...	...	...	21. 17. 11.34	- 0.05	
	48	Jupiter 1 L.....	B	...	...	...	34.2	...	39.4	46.5	...	51.5	...	10. 47. 39.19	...	40.86	...	...	...	10. 48. 36.40		
	49	Jupiter 2 L.....	B	...	...	...	36.6	...	41.8	49.1	...	54.1	...	10. 47. 41.71	...	...	...	...	...	10. 55. 39.84	- 5.74	
	50	β Ursæ Majoris...	B	16.9	21.5	...	...	39.5	44.0	57.3	...	...	...	10. 54. 44.05	...	44.30	...	...	...	10. 57. 24.82	- 6.12	
	51	α Ursæ Majoris...	B	57.1	2.5	7.9	18.2	23.8	29.2	44.6	50.0	55.5	1.0	10. 56. 29.06	...	29.28	...	...	...	11. 3. 48.59	- 5.44	
	52	Piazzi X. 247.....	B	...	...	...	44.1	48.6	52.9	5.5	9.5	14.0	18.3	11. 2. 52.78	...	53.04	...	...	...	11. 8. 38.95	- 4.35	
	53	δ Leonis.....	B	27.1	29.9	32.4	37.7	40.2	43.1	50.9	53.5	56.1	59.0	11. 7. 43.03	...	43.40	39.02	55.62	...	...		

Corrections for passage of Semidiameter, Nos. 11 and 37, + 70".13 and - 69".93.

5. Faint.
 9. Observed over wire T with the transit-micrometer set to readings 35".600, 37".375, 37".701, 37".966, 38".342, 38".650.
 18. Observed over wire T with the transit-micrometer set to readings 36".340, 35".885, 35".560, 35".209.
 21. Observed over wires M, N, O, P and Q.
 33, 48, 49. Very faint; cloudy.
 48. A correction of - 0".02, for defect of illumination, has been applied in forming the concluded transit.
8. Observed over wire T with the transit-micrometer set to readings 35".600, 37".375, 37".701, 37".966, 38".342, 38".650.
 11. Correction to R.A. on true meridian, + 0".02.
 25. Observed over wires W, X and Y.
 25, 38, 39, 43, 45, 50, 51. Cloudy.
 37. Correction to R.A. on true meridian, + 0".01.
 40, 41, 47, 52. Observed in dark field with wires illuminated.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock ap- parent- ly Slow.	Adopted Clock Slow at 0 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h	m	s	"	s	s	s	s	h	m	s	s	
1896	Dec. 21	1	Oeltz Arg. (N.) 11669	B	4.0	...	14.5	25.5	30.9	36.6	...	...	...	...	11. 13. 36.47	+ 2.85	36.68			55.43	11. 14. 32.23	- 5.76
		2	Leonis.....	B	30.4	32.9	35.4	40.2	42.7	45.4	52.5	55.1	57.5	0.0	11. 30. 45.25	(- 0.33)	45.71	41.25	55.54	[+ 0.25]	11. 31. 41.26	- 3.88
		3	Groombridge 1812	B	4.0	7.5	11.1	18.1	21.5	25.5	35.9	39.3	42.9	46.4	11. 32. 25.27	[+ 5.35]	25.56				11. 33. 21.11	- 4.57
		4	Groombridge 1813	B	3.5	6.9	10.6	...	...	...	...	39.0	42.8	46.1	11. 33. 24.86		25.15				11. 34. 20.70	- 4.56
		5	Ursæ Majoris...	B	20.0	23.5	27.3	34.8	38.4	42.0	53.2	56.9	0.7	4.4	11. 39. 42.18		42.47				11. 40. 38.02	- 4.51
		6	Leonis.....	B	38.0	40.4	43.0	48.0	50.6	53.4	0.9	3.3	6.0	8.6	11. 42. 53.26		53.66	49.18	55.52		11. 43. 49.21	- 3.94
		7	Virginis.....	B	9.7	12.1	14.6	19.6	22.0	24.5	31.8	34.2	36.9	39.3	11. 44. 24.51		24.96	20.52	55.56		11. 45. 20.51	- 3.88
		8	Groombridge 1830	B	48.8	52.0	55.1	1.3	4.5	8.0	17.1	20.1	23.4	26.6	11. 46. 7.74		8.05				11. 47. 3.60	- 4.56
		9	Ursæ Majoris...	B	...	...	...	...	...	...	42.9	47.0	51.5	55.6	11. 47. 30.33		30.59				11. 48. 26.14	- 4.57
		10	Virginis.....	B	47.5	50.0	52.4	57.4	0.0	2.5	9.9	12.3	14.9	17.6	11. 59. 2.49		2.90	58.43	55.53		11. 59. 58.45	- 3.77
		11	Virginis.....(E&E)	B	51.0	5.9	20.9	36.1	51.1	6.1	21.1	...	...	...	11. 59. 2.42		2.83	58.43	55.60			
		12	Groomb. 4235 S.P.	B	...	...	...	...	8.8	15.9	22.2	35.5	42.1	49.1	12. 1. 8.66		9.01				0. 2. 4.57	- 2.65
		13	Groomb. 39 S.P...	B	...	...	...	...	...	...	9.3	14.1	18.9	50.1	12. 11. 48.54		48.85				0. 12. 44.41	- 3.21
		14	Groombridge 1873	B	...	...	...	...	...	...	4.0	9.6	15.4	...	12. 14. 47.13		47.34				12. 15. 42.90	- 4.17
		15	Canum Veneticum.	B	51.9	56.0	0.0	8.0	12.0	16.0	28.0	32.0	35.9	40.0	12. 24. 16.04		16.30				12. 25. 11.86	- 3.77
		16	Polaris S.P.	B	45.5	12.0	22.0	38.2	45.2	39.8	48.1	38.4	57.0	6.1	13. 20. 29.33		31.90	26.37	54.47		1. 21. 27.47	- 32.52
		17	Herculis.....	B	49.5	6.7	9.6	...	32.5	35.4	38.2	41.1	58.4	16.0	16. 55. 23.98		24.32	19.89	55.57		16. 56. 19.93	- 1.32
Dec. 22	18	1 L.....	AC	52.7	55.5	58.0	3.5	6.1	9.0	17.0	19.9	22.4	25.1	18. 3. 8.96	} 20.73				55.38	18. 5. 16.30		
	19	2 L.....	AC	15.2	17.8	20.5	26.0	28.5	31.4	39.3	42.0	44.9	47.6	18. 5. 31.36								
	20	Cephei 51 S.P....	AC	26.6	33.1	40.9	50.9	20.1	40.4	47.4	54.7	16.9	26.0	18. 51. 54.17		55.45	50.55	55.10		6. 52. 51.03	- 65.22	
	21	α Aquilæ.....	AC	...	...	...	43.7	46.1	48.8	56.0	58.8	1.1	3.8	19. 44. 48.74		49.15	44.75	55.60		19. 45. 44.74	- 2.25	
	22	α Pegasi.....	AC	26.4	29.0	31.6	36.7	39.2	41.9	49.6	52.0	54.4	57.3	22. 58. 41.85		42.25	37.85	55.60		22. 59. 37.87	- 3.09	
	23	Oeltz Arg. (N.) 11509 S.P.	AC	2.3	9.1	16.0	23.2	43.1	50.0	...	...	...	...	23. 4. 43.18		43.53				11. 5. 39.15	- 6.72	
	24	γ Piscium.....	AC	...	41.4	44.0	48.6	51.2	53.9	1.0	3.6	6.1	...	23. 10. 53.78		54.23	49.78	55.55		23. 11. 49.85	- 3.40	
	25	Bradley 3147.....	AC	8.1	16.2	30.7	8.8	...	...	...	...	...	...	23. 26. 43.73		43.13				23. 27. 38.75	+ 11.29	
	26	Bradley 1672 S.P.	AC	8.3	16.3	28.1	42.2	11.9	21.3	31.9	46.0	28.0	37.5	0. 13. 37.36		39.25			55.63	12. 14. 34.88	- 12.13	
	27	Groombridge 99.....	AC	11.3	15.9	20.8	30.5	35.4	40.4	54.9	59.8	4.8	10.0	0. 29. 40.45		40.69				0. 30. 36.33	- 3.66	
	28	Groombridge 108.....	AC	14.3	19.8	25.0	34.1	39.5	44.9	59.1	4.0	8.9	13.9	0. 31. 44.42		44.66				0. 32. 40.30	- 3.71	
	29	Oeltz Arg. (N.) 603.....	AC	22.7	27.1	32.5	42.2	46.9	51.6	6.2	11.0	16.0	21.2	0. 33. 51.81		52.05				0. 34. 47.69	- 3.77	
	30	δ Piscium.....R.	AC	10.1	12.5	14.9	20.0	22.6	25.0	...	...	...	...	0. 42. 25.00		25.46	21.01	55.55		0. 43. 21.10	- 3.91	
	31	Polaris.....	AC	44.0	52.4	0.5	8.0	36.4	45.1	51.9	4.6	26.0	39.3	1. 20. 33.22		31.19	25.90	54.71		1. 21. 26.83	- 32.05	
	32	δ Ceti.....	AC	...	...	7.5	12.4	14.8	17.4	24.6	27.1	...	...	2. 33. 17.35		17.81	13.54	55.73		2. 34. 13.47	- 4.53	
	33	γ² Ceti.....	AC	...	...	53.1	58.1	0.6	3.1	10.1	12.9	...	...	2. 37. 3.03		3.48	59.17	55.69		2. 37. 59.14	- 4.57	
	34	γ² Ceti..... (E&E)	AC	53.4	8.0	...	...	...	7.4	22.4	...	...	...	2. 37. 3.02		3.47	59.17	55.70		.....		
	35	Groomb. 2210 S.P.	AC	25.7	45.5	4.2	22.1	43.1	...	...	...	...	...	2. 49. 4.12		5.16				14. 50. 0.82	+ 23.03	
	36	Lalande F. 659-o.	AC	...	...	...	...	...	...	50.4	6.0	22.1	53.6	4. 17. 50.85		50.83				4. 18. 46.50	- 18.95	
	37	Aldebaran.....	AC	50.9	53.4	56.0	1.3	3.7	6.4	14.0	16.5	19.1	22.0	4. 29. 6.37		6.76	2.47	55.71		4. 30. 2.44	- 5.38	
	38	τ Tauri.....	AC	53.6	56.2	59.0	4.2	7.0	9.6	17.6	20.1	22.9	25.7	4. 35. 9.63		10.01	5.73	55.72		4. 36. 5.69	- 5.64	
	39	Groombridge 870.....	AC	1.4	8.1	14.9	27.4	34.4	41.2	0.4	7.1	13.8	20.5	4. 39. 41.02		41.19				4. 40. 36.87	- 10.49	
	40	Lalande 9056.....	AC	14.1	...	20.6	26.5	29.5	32.8	41.6	44.9	...	51.1	4. 44. 32.68		33.00				4. 45. 28.68	- 6.33	
	41	Rigel.....	AC	26.0	28.4	30.9	35.9	38.3	40.9	48.4	50.9	53.4	56.0	5. 8. 40.95		41.44	37.15	55.71		5. 9. 37.12	- 4.81	
	42	Neptune.....	AC	30.9	33.3	36.1	41.6	44.1	47.1	54.9	57.6	0.4	3.0	5. 9. 46.94		47.31				5. 10. 42.99		
	43	β Tauri.....	AC	...	38.9	41.6	47.1	50.0	53.0	1.2	4.0	6.9	...	5. 18. 52.89		53.25	49.06	55.81		5. 19. 48.94	- 6.05	
	44	β Tauri..... (E&E)	AC	37.3	54.1	11.0	...	44.9	1.7	18.5	...	...	...	5. 18. 52.90		53.26	49.06	55.80		.....		
	45	Oeltz Arg. (N.) 5896	AC	10.0	23.9	37.7	4.6	18.2	31.9	...	...	...	...	5. 27. 32.07		32.09				5. 28. 27.78	- 19.48	
	46	Groombridge 944.....	AC	...	...	...	...	...	...	48.9	18.1	47.8	17.1	5. 28. 22.75		22.44				5. 29. 18.13	- 37.77	
	47	Groombridge 981.....	AC	5.5	14.0	23.0	40.8	50.0	58.6	...	...	...	...	5. 28. 58.82		58.95				5. 29. 54.64	- 13.91	
	48	Groomb. 2476 S.P.	AC	...	...	...	...	...	...	21.1	43.7	4.5	26.6	5. 31. 55.48		56.16				17. 32. 51.85	+ 21.52	
	49	Lalande 32447 S.P.	AC	...	...	...	...	...	...	16.0	22.6	29.4	10.9	5. 34. 48.47		48.82				17. 35. 44.51	+ 4.07	
	50	δ Ursæ Min. S.P...	AC	7.9	13.7	20.7	31.6	2.0	9.5	16.0	24.3	...	...	6. 4. 7.99		9.09				18. 5. 4.78	+ 46.75	
	51	Groombridge 1004.....	AC	10.1	54.2	15.5	36.9	22.9	...	...	...	...	...	6. 6. 15.92		15.32				6. 7. 11.01	- 56.67	
	52	γ Geminorum.....	AC	36.2	38.9	41.4	46.5	49.2	51.9	59.5	2.0	4.5	7.1	6. 30. 51.76		52.15	47.81	55.66		6. 31. 47.85	- 5.61	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 11, 34, and 44, — 93^m65 : — 94^m83 : and — 95^m05.

- 1, 14, 16, 17. Cloudy. 3, 4, 12, 13, 14, 15, 36, 39, 40, 42. Observed in dark field with wires illuminated. 13, 49. Observed over wires Q, P, O and N.
 16. Observed over wire X with the transit-micrometer set to readings 41^m990, 41^m750, 41^m685, 41^m538, 41^m470, 40^m980, 40^m912, 39^m469, 38^m244, 38^m165.
 17. Observed over wires N, O, P, U, V, W, X, Y and Z.
 20. Observed over wire V with the transit-micrometer set to readings 35^m745, 35^m616, 35^m444, 35^m255, 34^m666, 34^m279, 34^m122, 34^m004, 33^m556, 33^m380.
 25. Observed over wire T with the transit-micrometer set to readings 34^m799, 34^m975, 35^m309, 37^m520.
 26. Observed over wire T with the transit-micrometer set to readings 37^m410, 37^m321, 37^m162, 37^m005, 36^m668, 36^m543, 36^m414, 36^m236, 35^m712, 35^m600.
 31. Observed over wire O with the transit-micrometer set to readings 33^m851, 33^m932, 34^m000, 34^m072, 34^m313, 34^m380, 34^m445, 34^m527, 34^m724, 34^m847.
 35. Observed over wire T with the transit-micrometer set to readings 36^m600, 36^m100, 35^m600, 35^m100, 34^m600. 36. Observed over wires V, W, X and Y.
 48. Observed over wires Q, P and O with the transit-micrometer set to readings 35^m600 and over wire O with the transit-micrometer set to reading 34^m600.
 50. Observed over wire X with the transit-micrometer set to readings 38^m230, 38^m060, 37^m904, 37^m640, 36^m919, 36^m745, 36^m588, 36^m389.
 51. Observed over wire T with the transit-micrometer set to readings 34^m100, 35^m100, 35^m600, 36^m100, 37^m100.

MONTH and DAY	No. for Reference	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock ap- parently Slow.	Adopted Clock Slow at 0° Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.0.			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].									
																							h	m	s
1896				s	s	s	s	s	s	s	s	s	s	"	s	s	s	s	h	m	s				
Dec. 22	1	Sirius	AC	...	...	...	...	...	...	50.0	52.4	55.1	57.8	6. 39. 42.30	+ 2.85		42.83			55.63	6. 40. 38.53	- 4.58			
	2	θ Canis Majoris...	AC	44.5	59.9	17.4	19.6	27.5	30.1	...	...	...	59.8	6. 48. 29.95	(- 0.33)		30.45	26.13	55.68	[+ 0.25]	6. 49. 26.15	- 4.72			
	3	Cephei 51	AC	45.0	52.6	59.4	6.2	41.6	50.3	57.5	5.6	28.0	36.1	6. 51. 56.48	[+ 5.35]		55.74	50.67	54.93		6. 52. 51.44	- 6.34			
	4	51 Geminorum...	AC	17.9	20.4	23.1	28.0	30.8	33.4	40.9	43.6	46.1	48.8	7. 6. 33.34			33.73	29.50	55.77		7. 7. 29.43	- 5.57			
	5	Carrington 997...	AC	24.9	44.0	6.9	3.5	20.9	40.5	...	...	...	...	7. 14. 33.45			32.34				7. 15. 28.05	- 86.47			
	6	λ Ursæ Min. S.P.	AC	2.4	10.1	16.9	26.3	50.0	59.8	11.6	20.9	48.0	1.2	7. 23. 17.92			20.97				19. 24. 16.68	+ 161.57			
	7	Groomb. 2872 S.P.	AC	50.0	54.0	58.0	2.7	15.3	19.9	23.9	32.9	36.5	41.4	7. 28. 15.40			15.67				19. 29. 11.38	+ 0.87			
	8	Groomb. 2907 S.P.	AC	...	...	...	...	...	...	28.9	32.9	40.9	45.5	49.6	7. 35. 24.13			24.40				19. 36. 20.11	+ 0.79		
	9	ε Draconis S.P.	AC	48.0	55.4	2.7	10.1	31.3	38.6	46.0	59.8	7.4	14.6	7. 47. 31.28			31.64				19. 48. 27.35	+ 4.33			
	10	23 Cygni S.P.	AC	...	...	...	...	...	...	...	...	40.0	7.1	7. 50. 12.47			12.75				19. 51. 8.46	+ 1.07			
	11	6 Cancri.....	AC	0.9	3.6	6.5	12.0	14.9	17.7	26.0	28.8	31.8	34.9	7. 56. 17.75			18.11	13.78	55.67		7. 57. 13.82	- 5.93			
	12	μ² Cancri.....	D	32.5	35.1	37.7	42.9	45.7	48.2	56.2	58.9	1.5	4.1	8. 0. 48.32			48.69			55.42	8. 1. 44.19	- 5.64			
	13	β Cancri.....	D	46.6	49.1	51.6	56.6	59.1	1.7	9.1	11.5	14.1	16.8	8. 10. 1.66			2.07	57.63	55.56		8. 14. 22.52	- 5.55			
	14	Piazzi VIII. 42...	D	10.9	13.3	16.1	21.2	24.0	26.8	34.4	37.1	39.9	42.3	8. 13. 26.64			27.01				8. 36. 38.01				
	15	δ 2 L.....	D	34.5	37.1	40.0	45.2	48.0	50.6	58.7	1.2	4.0	6.7	8. 36. 50.64			51.02				8. 36. 38.01				
	16	ε Hydrae.....	D	...	...	...	20.0	22.5	25.1	32.5	34.9	37.5	40.0	8. 40. 25.08			25.50	21.01	55.51		8. 40. 25.08				
	17	α Hydrae.....	D	22.0	24.4	27.1	32.0	34.6	37.1	44.4	46.9	49.4	52.0	9. 21. 37.03			37.52	32.98	55.46		9. 21. 37.03				
	18	Polaris S.P.	J	57.8	3.9	11.6	30.6	35.6	42.9	8.1	29.5	35.8	59.8	13. 20. 28.55			31.11	25.41	54.30	55.59	1. 21. 26.84	- 31.56			
	19	m Virginis.....	J	...	...	...	...	...	16.1	23.6	26.1	28.6	31.1	13. 35. 16.17			16.66	12.32	55.66		13. 35. 16.17				
	20	Arcturus.....	J	...	48.3	51.2	56.2	59.0	1.6	9.2	12.0	14.6	...	14. 10. 1.56			1.94	57.74	55.80		14. 10. 1.56				
Dec. 23	21	Bradley 2832 S.P.	B	42.2	48.6	55.8	3.0	10.0	...	...	...	...	...	9. 20. 38.31	[+ 3.56]		38.24			55.93	21. 21. 34.27	+ 17.24			
	22	α Hydrae	B	21.5	24.0	26.5	31.5	34.0	36.7	44.0	46.5	49.1	51.7	9. 21. 36.59			36.98	33.01	56.03		9. 22. 33.01	- 4.44			
	23	δ 2 L.....	B	57.6	0.1	2.9	8.0	10.5	13.1	20.9	23.5	26.1	28.9	9. 30. 13.20			13.53				9. 30. 2.39				
	24	o Leonis.....	B	29.4	31.9	34.4	39.5	42.0	44.5	52.0	54.5	56.9	59.5	9. 34. 44.50			44.83	40.80	55.97		9. 35. 40.86	- 4.82			
	25	o Leonis (E&E)	B	36.6	51.8	6.9	22.0	37.0	52.1	7.1	...	...	...	9. 34. 44.47			44.80	40.80	56.00		9. 34. 44.47				
	26	ε Leonis	B	49.5	52.1	54.9	0.3	3.0	5.9	13.8	16.5	19.1	22.1	9. 39. 5.76			6.07	2.09	56.02		9. 40. 2.10	- 5.20			
	27	ε Leonis (E&E)	B	54.6	10.6	26.9	43.1	59.4	15.6	32.0	...	...	...	9. 39. 5.71			6.02	2.09	56.07		9. 39. 5.71				
	28	Groomb. 3591 S.P.	B	9.1	15.4	21.7	28.0	46.0	52.0	58.2	10.5	16.9	23.1	9. 45. 46.00			46.08				21. 46. 42.11	+ 1.09			
	29	Groomb. 3604 S.P.	B	...	...	...	22.5	40.9	47.1	53.6	...	...	...	9. 47. 40.90			40.98				21. 48. 37.01	+ 1.05			
	30	Groomb. 3620 S.P.	B	...	...	...	...	...	53.3	0.2	15.5	23.5	31.4	9. 49. 45.24			45.31				21. 50. 41.34	+ 2.24			
	31	Groomb. 3644 S.P.	B	...	...	...	...	...	53.1	58.5	4.0	14.1	19.8	9. 54. 53.14			53.22				21. 55. 49.25	+ 0.16			
	32	Groomb. 3646 S.P.	B	...	...	...	...	...	...	32.4	42.9	48.5	54.0	9. 55. 21.86			21.94				21. 56. 17.97	+ 0.16			
	33	Groomb. 3661 S.P.	B	...	...	...	...	...	...	27.0	33.0	44.9	50.9	9. 57. 20.92			20.99				21. 58. 17.02	+ 0.67			
	34	Piazzi XXI. 401 S.P.	B	...	...	...	...	...	53.1	58.5	3.3	12.9	...	9. 59. 53.42			53.50				22. 0. 49.53	- 0.32			
	35	Oeltz. Arg. (N.) 23355 S.P.	B	...	...	...	...	...	...	7.2	16.9	21.9	26.5	9. 59. 57.52			57.60				22. 0. 53.63	- 0.32			
	36	Oeltz. Arg. (N.) 23360 S.P.	B	...	...	...	...	...	...	32.0	36.6	6.0	34.9	10. 0. 7.61			7.69				22. 1. 3.72	- 0.33			
	37	Groomb. 3696 S.P.	B	...	...	...	...	...	5.5	...	16.0	25.6	30.6	35.5	10. 4. 5.53			5.61				22. 5. 1.64	- 0.25		
	38	Groomb. 3698 S.P.	B	57.1	2.5	7.6	12.7	27.4	32.5	37.5	47.4	52.6	57.5	10. 4. 27.40			27.48				22. 5. 23.51	- 0.26			
	39	Bradley 2938 S.P.	B	...	...	...	...	...	...	58.6	4.1	9.4	41.9	10. 9. 37.24			37.32				22. 10. 33.36	- 0.08			
	40	Lalande 19985	B	17.6	21.9	26.1	34.6	38.8	43.1	55.5	59.9	4.0	8.4	10. 12. 43.05			43.32				10. 13. 39.36	- 6.40			
	41	Carrington 1525...	B	9.0	17.1	26.1	35.9	44.3	...	...	...	...	...	10. 13. 42.58			42.94				10. 14. 38.98	- 15.97			
	42	Lalande F. 1662...	B	29.3	38.6	46.9	55.4	3.6	...	...	...	...	...	10. 16. 3.90			4.26				10. 17. 0.30	- 15.66			
	43	Groomb. 3805 S.P.	B	...	...	7.6	14.9	36.0	43.2	50.5	4.9	...	...	10. 25. 36.04	- 34.25		43.30				22. 26. 39.34	+ 0.81			
	44	Groomb. 3821 S.P.	B	...	...	...	...	...	...	34.7	45.6	56.8	3.4	10. 26. 50.71			1.73				22. 27. 57.77	+ 3.32			
	45	Groomb. 3840 S.P.	B	21.5	29.2	36.3	43.8	...	...	...	...	...	...	10. 31. 4.87			12.13				22. 32. 8.17	+ 0.65			
	46	Groomb. 3842 S.P.	B	...	...	...	...	...	...	50.3	4.5	11.6	18.4	10. 31. 35.90			43.09				22. 32. 39.13	+ 0.58			
	47	Lalande F. 4239 S.P.	B	...	...	24.9	32.2	55.2	2.9	10.5	26.0	...	...	10. 35. 55.13			2.88				22. 36. 58.92	+ 0.79			
	48	Groomb. 3865 S.P.	B	...	...	...	...	39.2	43.4	47.6	56.1	0.1	4.5	10. 37. 39.12			43.43				22. 38. 39.47	- 1.49			
	49	Oeltz. Arg. (N.) 11109	B	35.3	42.5	50.1	4.8	12.0	19.5	...	...	...	...	10. 40. 19.51			12.40				10. 41. 8.44	- 7.91			
	50	Groombridge 1687	B	...	39.1	49.2	10.4	21.3	32.1	...	...	...	...	10. 42. 32.00			21.65				10. 43. 17.69	- 9.82			
	51	Groombridge 1693	B	...	...	...	...	0.1	7.5	29.1	36.4	44.0	51.6	10. 44. 7.50			0.39				10. 44. 56.43	- 7.79			
	52	B.D.+72° No. 1071 S.P.	B	...	...	12.9	21.5	46.3	54.9	3.5	20.1	...	...	10. 48. 46.36			54.84				22. 49. 50.88	+ 0.76			
	53	Groombridge 1713	B	...	...	27.2	41.6	48.8	56.2	18.0	25.2	...	...	10. 50. 56.32			49.21				10. 51. 45.25	- 7.57			

For Nos. 43 to 53. Reading of Transit-Micrometer, 36".600.

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 25 and 27, — 97".50 and — 97".50.

Corrections for passage of Semidiameter, Nos. 15 and 23, — 68".53 and — 67".18.

2. Very faint. Observed over wires M, N, P, Q, S, T and Y.

3. Observed over wire V with the transit-micrometer set to readings 34".953, 35".120, 35".265, 35".379, 36".082, 36".242, 36".392, 36".546, 36".979, 37".139.

5. Observed over wire T with the transit-micrometer set to readings 34".600, 34".900, 35".200, 36".000, 36".300, 36".600.

5, 7, 29, 30, 32, 33, 41. Observed in dark field with wires illuminated.

6. Observed over wire T with the transit-micrometer set to readings 37".004, 36".952, 36".901, 36".835, 36".649, 36".588, 36".510, 36".440, 36".250, 36".151.

10. Observed over wires O and N. 14. Observed in partially illuminated field. 15, 23. Correction to R.A. on true meridian, + 0".01.

18. Cloudy. Observed over wire Q with the transit-micrometer set to readings 35".673, 35".620, 35".550, 35".411, 35".359, 35".273, 35".060, 34".873, 34".811, 34".630.

20. Very faint; cloudy. 21. Observed over wire O with the transit-micrometer set to readings 36".200, 35".900, 35".600, 35".300, 35".000.

36. Observed over wires P, O, N and M.

41, 42. Observed over wire X with the transit-micrometer set to readings 34".600, 35".100, 35".600, 36".100, 36".600.

1938G00AMM. 583...1C

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TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

1898 GOV. M.

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at of Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	Azimuth.						
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	s	h m s	s						

Dec. 23	1	Groomb. 3945 S.P.	B	...	...	...	...	...	...	3.6	13.2	18.2	22.9	10. 53. 53.92	-34.25	58.82			55.93	22. 54. 54.86	-1.42	
	2	Groomb. 3950 S.P.	B	...	...	...	...	...	...	23.7	32.0	36.4	40.5	10. 55. 14.98	(- 0.33)	19.32			[+ 0.25]	22. 56. 15.36	-1.78	
	3	3 Andromedæ S.P.	B	10.0	14.0	17.7	21.9	32.9	36.8	40.9	48.1	52.0	56.0	10. 58. 32.97	[+ 3.56]	36.87				22. 59. 32.91	-2.13	
	4	Oeltz. Arg. (N.) 11438	B	49.4	55.8	2.1	15.0	21.7	28.2	...	...	...	...	11. 1. 28.36		22.06				11. 2. 18.10	-6.78	
	5	Lacaille 4614	B	31.6	34.5	37.4	42.9	46.0	48.5	56.9	59.5	2.6	5.5	11. 2. 48.58		46.25				11. 3. 42.30	-3.73	
	6	Groomb. 4021 S.P.	B	...	...	24.1	32.6	0.6	10.2	19.6	38.2	...	...	11. 9. 0.69		10.06				23. 10. 6.11	+ 0.38	
	7	Groomb. 4041 S.P.	B	...	...	...	12.4	27.4	32.6	37.6	...	...	...	11. 14. 27.39		32.52				23. 15. 28.57	-1.78	
	8	Groomb. 4045 S.P.	B	40.2	45.3	50.1	55.6	10.5	...	...	...	...	...	11. 15. 10.36		15.49				23. 16. 11.54	-1.79	
	9	Groomb. 4046 S.P.	B	...	...	...	...	...	1.3	5.7	14.0	18.5	22.6	11. 15. 57.16		1.46				23. 16. 57.51	-2.19	
	10	Groomb. 4057 S.P.	B	44.5	49.2	53.4	57.7	...	...	...	...	...	...	11. 19. 10.23		14.57				23. 20. 10.62	-2.23	
	11	Groomb. 4058 S.P.	B	...	...	...	...	...	...	32.9	37.4	3.5	29.6	11. 19. 11.11		15.54				23. 20. 11.59	-2.19	
	12	B.D. + 3° No. 2510	B	11.9	14.1	16.8	21.9	24.2	26.8	...	...	...	...	11. 23. 26.72		24.60				11. 24. 20.65	-4.03	
	13	Piazzi XXIII. 100 S.P.	B	...	...	...	...	...	...	15.1	24.0	28.9	1.4	11. 24. 5.52		10.27				23. 25. 6.32	-2.16	
	14	Piazzi XXIII. 101 S.P.	B	...	...	...	...	...	...	20.0	...	38.1	42.9	10.9	11. 24. 14.99		19.74				23. 25. 15.79	-2.16
	15	Groomb. 4103 S.P.	B	...	...	20.2	26.8	45.4	52.0	58.6	11.4	...	...	11. 30. 45.60		52.10				23. 31. 48.15	-1.66	
	16	Oeltz. Arg. (N.) 11942	B	...	20.0	23.6	30.7	34.1	38.0	48.1	52.0	55.7	...	11. 32. 37.85		34.60				11. 33. 30.65	-4.66	
	17	Oeltz. Arg. (N.) 25964 S.P.	B	...	...	...	...	16.0	26.0	33.9	49.8	58.1	6.3	11. 37. 17.00		25.29				23. 38. 21.34	-1.29	
	18	π Virginis	B	25.0	27.6	30.0	35.0	37.5	40.0	47.4	49.9	52.2	54.9	11. 54. 39.99	+ 2.85	40.33	36.45	56.12		11. 55. 36.38	-3.87	
	19	ο Virginis	S	47.1	49.8	52.2	57.2	59.8	2.2	9.7	12.1	14.9	17.4	11. 59. 2.28		2.62	58.50	55.88	55.73	11. 59. 58.47	-3.84	
	20	ε Corvi	S	37.6	40.2	43.1	48.2	51.1	54.0	1.9	4.4	7.1	10.0	12. 3. 53.80		54.24	50.08	55.84		12. 4. 50.10	-3.61	
	21	Groomb. 39 S.P.	S	...	...	...	32.9	48.1	52.4	58.5	...	...	...	12. 11. 47.87		47.95				0. 12. 43.81	-3.15	
	22	Radcliffe 56 S.P.	S	59.8	12.6	24.2	38.0	51.3	...	...	...	...	...	12. 14. 25.18		24.09				0. 15. 19.95	+ 10.59	
	23	Groombridge 1896	S	36.9	41.1	45.2	53.2	57.1	1.3	13.2	17.2	21.7	25.8	12. 24. 1.43		1.70				12. 24. 57.56	-3.91	
	24	γ Canum Veneticum	S	51.3	55.3	59.6	7.3	11.4	15.5	27.5	31.5	35.5	39.7	12. 24. 15.52		15.79				12. 25. 11.65	-3.87	
	25	Piazzi O. 104 S.P.	S	...	...	...	35.2	50.0	54.6	59.8	...	...	...	12. 26. 49.80		49.88				0. 27. 45.74	-3.54	
	26	Lalande 799 S.P.	S	...	...	...	12.0	26.1	31.1	...	45.6	50.3	55.2	12. 27. 26.20		26.28				0. 28. 22.14	-3.56	
	27	Groomb. 95 S.P.	S	...	...	...	...	...	...	11.4	16.3	20.9	20.3	12. 28. 51.79		51.87				0. 29. 47.73	-3.59	
	28	Groomb. 99 S.P.	S	...	...	...	40.2	45.4	...	59.8	5.1	10.0	12. 29. 40.37		40.45					0. 30. 36.31	-3.61	
	29	Lacaille 5232	S	...	...	...	...	...	...	31.5	34.5	37.5	40.5	12. 33. 23.36		23.85				12. 34. 19.71	-3.66	
	30	A. G. C. 17246	S	...	...	...	...	...	5.9	8.7	11.3	28.7	45.5	12. 33. 54.68		55.17				12. 34. 51.03	-3.66	
	31	η Cassiopeiae S.P.	S	29.3	34.0	38.6	43.1	...	...	...	...	...	...	12. 41. 56.66		56.73				0. 42. 52.59	-4.03	
	32	Groomb. 148 S.P.	S	...	...	...	...	...	...	0.5	7.5	14.9	58.8	12. 42. 31.19		31.25				0. 43. 27.11	-3.99	
	33	Groomb. 201 S.P.	S	21.8	27.0	32.0	36.1	...	...	...	...	...	...	12. 52. 51.29		51.37				0. 53. 47.23	-4.17	
	34	Lalande 1674 S.P.	S	52.5	57.6	2.3	7.9	...	...	...	...	...	...	12. 53. 22.10		22.18				0. 54. 18.04	-4.18	
	35	Groomb. 216 S.P.	S	16.1	21.4	26.5	32.0	47.1	52.5	57.4	8.0	13.0	18.0	12. 55. 47.12		47.20				0. 56. 43.06	-4.26	
	36	Groomb. 224 S.P.	S	...	...	...	30.2	45.6	50.9	55.9	...	...	...	12. 56. 45.54		45.62				0. 57. 41.48	-4.29	
	37	Groomb. 227 S.P.	S	...	...	...	...	...	...	38.0	42.9	10.7	38.0	12. 57. 15.47		15.55				0. 58. 11.42	-4.24	
	38	Piazzi O. 312 S.P.	S	...	...	...	45.8	2.9	8.5	14.5	...	...	...	13. 5. 2.81		2.88				1. 5. 58.75	-4.59	
	39	B.D. - 10° No. 3634	B	9.4	12.0	14.4	19.4	22.0	24.4	31.5	34.0	36.7	39.4	13. 8. 24.36		24.75			55.93	13. 9. 20.82	-3.39	
	40	Bradley 163 S.P.	S	...	...	...	12.8	42.6	52.5	2.9	...	...	...	13. 12. 42.49		42.53			55.73	1. 13. 38.40	-5.65	
	41	Groomb. 307 S.P.	S	0.0	9.2	18.0	26.7	...	...	...	...	...	...	13. 19. 52.77		52.84				1. 20. 48.71	-5.75	
	42	Polaris S.P.	S	22.0	29.6	45.5	52.8	5.9	12.1	23.9	30.1	42.0	49.5	13. 20. 29.57		28.59	24.42	55.83		.....		
	43	Piazzi XIII. 123.	S	...	...	...	...	...	37.1	40.9	51.9	55.5	59.3	13. 26. 40.95		41.22				13. 27. 37.09	-2.82	
	44	Groomb. 341 S.P.	S	...	...	...	...	47.6	53.4	59.0	9.7	15.1	20.2	13. 28. 47.87		47.94				1. 29. 43.81	-5.17	
	45	Groomb. 365 S.P.	S	6.2	12.8	19.0	26.0	...	...	...	...	...	...	13. 35. 44.31		44.38				1. 36. 40.25	-5.65	
	46	B. F. 1898	S	...	...	...	58.1	1.1	4.0	12.5	15.4	18.2	21.4	13. 43. 3.94		4.23				13. 44. 0.10	-2.89	
	47	η Boötis	S	35.0	37.6	40.3	45.5	48.2	50.9	58.5	1.1	4.0	6.4	13. 48. 50.79		51.10	46.94	55.84		13. 49. 46.97	-3.00	
	48	Piazzi XIII. 264.	S	30.0	32.5	35.3	40.2	42.9	45.6	53.0	55.8	58.3	1.0	13. 52. 45.50		45.83				13. 53. 41.70	-3.00	
	49	Piazzi XIII. 287.	S	42.8	45.2	48.0	52.8	55.1	58.0	5.3	7.9	10.2	12.9	13. 57. 57.86		58.25				13. 58. 54.13	-3.17	
	50	Piazzi XIV. 12	S	51.9	54.1	56.9	1.8	4.1	6.6	14.0	16.5	18.9	21.5	14. 6. 6.67		7.03				14. 7. 2.91	-3.04	
	51	Arcturus	S	45.8	48.4	51.1	56.2	59.0	1.6	9.3	12.0	14.7	17.4	14. 10. 1.59		1.90	57.77	55.87		14. 10. 57.78	-2.74	
	52	20 Boötis	S	41.0	43.6	46.1	51.1	53.9	56.5	4.1	6.6	9.2	12.0	14. 13. 56.45		56.77				14. 14. 52.65	-2.82	
	53	f Boötis	S	28.0	30.5	33.1	38.4	40.9	43.7	51.4	54.1	56.9	59.5	14. 20. 43.69		44.00	39.81	55.81		14. 21. 39.88	-2.73	
	54	φ Virginis	S	42.4	44.9	47.3	52.2	54.9	57.4	4.8	7.1	9.8	12.1	14. 21. 57.33		57.70				14. 22. 53.58	-2.99	

For Nos. 1 to 17. Reading of Transit-Micrometer 36".600.

- 5, 8, 9, 10, 11, 12, 17, 25, 26, 27, 29, 30, 34, 35, 39. Observed in dark field with wires illuminated.
13. Observed over wires R, Q, P and N.
22. Observed over wire T with the transit-micrometer set to readings 35".800, 35".700, 35".600, 35".500, 35".400.
27. Observed over wires Q, P, O and M.
42. Observed over wire T with the transit-micrometer set to readings 35".664, 35".577, 35".477, 35".406, 35".290, 35".230, 35".121, 35".077, 34".969, 34".895.
- 11, 37. Observed over wires P, O, N and M.
32. Observed over wires Q, P, O and N.

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation.		Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock slow at Sidereal and (losing Rate).	Apparent R.A. of Centre from the Observation.			Correction for Reduction to Mean R.A. 1896.
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).					h	m	s	
			s.	s.	s.	s.	s.	s.	s.	s.	s.	s.		"	"	s.	s.	s.	s.	h	m	s	s.
Dec. 23	1 γ Boötis	S	40'3	43'6	46'9	53'1	56'2	59'6	8'9	12'0	15'2	18'5	14. 26. 59'48	+ 2'85		59'76			55'73	14. 27. 55'64			- 2'22
	2 σ Boötis	S	...	...	...	...	...	15'5	23'9	26'6	29'5	32'5	14. 29. 15'37	(- 0'33)		15'67			[+ 0'25]	14. 30. 11'55			- 2'45
	3 34 Boötis	S	...	...	...	51'8	54'5	57'3	5'5	8'1	11'1	14'0	14. 37. 57'26	[+ 3'56]		57'56				14. 38. 53'44			- 2'44
	4 ε ² Boötis	S	16'0	18'9	21'8	27'2	30'0	32'9	41'1	44'0	46'9	49'8	14. 39. 32'90			33'20	29'08	55'88		14. 40. 29'08			- 2'41
	5 ζ Herculis	B	9'5	12'2	15'2	21'0	24'0	26'9	35'6	38'4	41'4	44'2	16. 36. 26'88	(- 0'54)		27'15	23'27	56'12	55'93	16. 37. 23'25			- 1'37
	6 η Herculis	S	5'7	...	12'1	18'2	21'4	24'7	34'0	37'2	...	44'0	16. 38. 24'70			24'96			55'73	16. 39. 20'86			- 0'99
	7 κ Ophiuchi	S	35'5	38'0	40'6	45'6	48'1	50'6	58'0	0'5	3'0	5'6	16. 51. 50'59			50'91	46'84	55'93		16. 52. 46'82			- 2'17
Dec. 24	8 α Lyræ	S	...	...	16'9	23'1	26'2	29'5	38'7	42'1	...	...	18. 32. 29'47			29'73	25'69	55'96		18. 33. 25'65			- 0'68
	9 ρ Boötis	B	9'4	12'1	15'3	21'1	23'9	26'8	35'4	38'1	41'1	44'1	14. 26. 26'77	(- 1'12)		27'08	23'34	56'26	56'12	14. 27. 23'32			- 2'49
	10 ρ Boötis ... (E&E)	B	14'9	32'0	49'2	6'9	24'0	41'1	58'4	...	...	...	14. 26. 26'72	[+ 6'19]		27'03	23'34	56'31	[+ 0'20]	.....			
	11 ε ² Boötis	B	15'9	18'6	21'6	27'1	29'7	32'6	40'6	43'6	46'2	49'4	14. 39. 32'57			32'89	29'11	56'22		14. 40. 29'13			- 2'44
	12 ε ² Boötis ... (E&E)	B	22'5	38'8	55'9	12'6	29'2	46'0	2'8	...	...	...	14. 39. 32'61			32'93	29'11	56'18		.....			
	13 ψ Boötis	B	48'2	51'0	54'0	59'6	2'1	5'1	13'3	16'0	18'8	21'8	14. 59. 5'03			5'35	1'61	56'26		15. 0. 1'59			- 2'26
Dec. 25	14 ⊙ 1 L.	B	11'3	14'2	16'9	22'2	24'9	27'7	35'6	38'2	40'9	44'0	18. 16. 27'63			39'45				18. 18. 35'72			
	15 ⊙ 2 L.	B	33'9	36'5	39'1	44'6	47'2	50'1	58'1	0'8	3'4	6'2	18. 18. 50'03										
	16 α Lyræ	B	10'0	13'1	16'5	22'8	25'9	29'1	38'4	41'6	44'8	48'1	18. 32. 29'08			29'35	25'69	56'34	56'32	18. 33. 25'62			- 0'68
	17 Groombridge 95..	B	...	...	31'8	41'4	46'3	51'4	5'9	10'6	...	...	0. 28. 51'33			51'44				0. 29. 47'76			- 3'54
	18 Groombridge 99..	B	...	...	15'0	20'0	29'9	34'5	39'9	54'1	59'0	4'0	0. 29. 39'65			39'76				0. 30. 36'08			- 3'56
	19 Groombridge 104	B	...	...	16'1	21'1	30'9	36'0	41'0	55'2	0'3	5'2	0. 30. 40'83			40'94				0. 31. 37'26			- 3'58
	20 Groombridge 108	B	...	...	24'4	33'9	38'8	43'8	53'2	3'1	...	...	0. 31. 43'80			43'91				0. 32. 40'23			- 3'61
	21 δ Piscium	B	9'4	11'9	14'2	19'2	21'8	24'2	31'7	34'1	36'7	39'2	0. 42. 24'28			24'71	20'98	56'27		0. 43. 21'04			- 3'88
	22 Polaris	B	53'9	3'9	11'1	27'0	40'0	47'4	1'9	8'1	15'7	26'0	1. 20. 33'54			27'99	22'93	54'94		1. 21. 24'32			- 29'08
	23 ζ ² Ceti	B	30'5	32'9	35'4	40'2	42'9	45'5	52'9	55'4	58'0	0'5	2. 21. 45'46			45'88	42'20	56'32		2. 22. 42'22			- 4'54
	24 Carrington 2171 S.P.	B	...	...	...	...	...	...	12'1	43'6	0'1	16'1	2. 25. 40'41			41'47				4. 26. 37'81			+ 5'03
	25 Groomb. 2128 S.P.	B	49'6	0'9	12'0	23'1	...	...	...	...	...	...	2. 25. 56'01			56'81				14. 26. 53'15			+ 2'36
	26 Carrington 303...	B	40'2	56'4	8'5	27'0	39'9	36'0	53'1	9'1	24'3	39'6	2. 28. 39'41			31'84				2. 29. 28'18			- 92'35
	27 γ ² Ceti	B	47'6	50'0	52'5	57'4	59'9	2'3	9'9	12'2	14'8	17'4	2. 37. 2'44			2'89	59'15	56'26		2. 37. 59'23			- 4'55
	28 τ ¹ Eridani	B	6'8	9'2	12'0	17'0	19'6	22'2	30'0	32'6	35'2	38'0	2. 39. 22'30			22'88				2. 40. 19'22			- 4'36
	29 α Arietis	B	37'6	40'1	42'7	47'9	50'3	53'0	0'5	3'0	5'6	8'1	2. 44. 52'92			53'31	49'72	56'41		2. 45. 49'65			- 4'79
	30 α Ceti	B	43'4	46'0	48'4	53'3	56'0	58'5	5'7	8'1	10'7	13'2	2. 55. 58'37			58'81	55'17	56'36		2. 56. 55'15			- 4'67
	31 Piazzi XV. 136 S.P.	B	55'7	1'9	7'5	...	...	...	...	53'1	59'1	5'0	3. 28. 30'31			30'81				15. 29. 27'16			+ 0'79
	32 Groomb. 2252 S.P.	B	...	...	18'8	24'2	30'3	47'1	...	...	...	...	3. 28. 47'12			47'62				15. 29. 43'97			+ 0'79
	33 δ Eridani	B	8'6	11'0	13'6	18'5	21'0	23'8	31'1	33'6	36'1	38'7	3. 37. 23'64			24'16	20'49	56'33		3. 38. 20'51			- 4'60
	34 η Tauri	B	10'5	13'1	16'0	21'2	24'0	26'8	34'7	37'5	40'1	43'0	3. 40. 26'73			27'08	23'41	56'33		3. 41. 23'43			- 5'37
	35 Groombridge 742	B	44'5	52'0	0'0	15'5	23'5	31'1	...	...	...	...	3. 44. 31'20			31'14				3. 45. 27'49			- 10'47
	36 Oeltz. Arg. (N.) 4226	B	...	...	...	2'9	6'9	11'3	22'8	...	...	...	3. 45. 11'06			11'24				3. 46. 7'59			- 6'95
	37 Piazzi X. 246	EB	38'8	43'1	47'5	56'1	0'5	4'6	...	...	...	...	11. 2. 4'63	(- 1'74)		4'72			56'24	11. 3. 1'05			- 5'65
	38 δ Leonis	EB	26'5	29'2	32'0	37'1	39'6	42'4	50'2	53'0	55'6	58'4	11. 7. 42'44			42'75	39'16	56'41		.....			
	39 δ 2 L.	EB	9'4	12'0	14'5	19'5	22'1	24'9	32'1	34'6	37'1	40'0	11. 12. 24'66			25'08				11. 12. 15'31			
	40 Lalande F. 1867-8	EB	34'1	52'5	16'0	27'9	37'1	...	...	...	...	...	11. 23. 21'86			20'21				11. 24. 16'55			- 15'77
	41 π Virginis	EB	24'9	27'4	30'0	34'8	37'3	39'9	47'3	49'8	52'1	54'8	11. 54. 39'87			40'26	36'52	56'26		.....			
	42 ο Virginis	B	46'7	49'2	51'8	56'7	59'4	1'9	9'1	11'6	14'1	16'9	11. 59. 1'78			2'16	58'57	56'41	56'32	11. 59. 58'58			- 3'91
	43 Radcliffe 56 S.P.	B	10'9	24'3	37'4	44'4	16'0	25'1	33'6	...	...	...	12. 14. 15'88			24'20				0. 15. 20'62			+ 13'14
	44 δ Virginis	B	13'6	16'1	18'6	23'5	26'0	28'5	...	...	...	...	12. 49. 28'50			28'91	25'37	56'46		12. 50. 25'34			- 3'53
	45 Polaris S.P.	B	0'9	7'2	36'0	41'3	47'8	54'6	12'5	19'2	26'1	33'9	13. 20. 19'87			27'45	22'46	55'01		1. 21. 23'88			- 28'61
Dec. 26	46 β Leonis	R	37'1	39'9	42'4	...	...	52'9	...	2'9	5'5	8'2	11. 42. 52'73	(- 3'26)		53'00	49'35	56'35	56'35	.....			
	47 β Virginis	R	8'9	11'4	14'0	19'0	21'3	24'0	31'3	33'6	36'1	38'8	11. 44. 23'88	[+ 6'02]		24'23	20'69	56'46		.....			
	48 π Virginis	R	24'8	27'2	29'9	34'7	37'1	39'6	47'1	49'5	52'0	54'7	11. 54. 39'70			40'01	36'55	56'54		.....			
	49 δ 2 L.	R	7'8	10'2	12'9	18'0	20'5	23'1	30'7	33'1	36'0	38'4	12. 3. 23'11			23'52				12. 3. 13'18			

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 10 and 12, — 99'96 : and — 99'97.
 Corrections for passage of Semidiameter, Nos. 39 and 49, — 66'11 and — 66'80.

8, 21, 22, 38, 39, 40, 44, 45. Cloudy.

20, 36, 40. Observed in dark field with wires illuminated.

22. Observed over wire T with the transit-micrometer set to readings 36'805, 36'895, 36'975, 37'126, 37'221, 37'300, 37'405, 37'475, 37'540, 37'629.

26. Observed over wire T with the transit-micrometer set to readings 33'300, 33'400, 33'500, 33'600, 33'700, 33'800, 33'900, 34'000, 34'100, 34'200, 34'300, 34'400, 34'500, 34'600, 34'700, 34'800, 34'900.

37. Very faint; cloudy.

40. Observed over wire T with the transit-micrometer set to readings 35'994, 35'630, 37'410, 37'791, 38'095.

43. Observed over wire T with the transit-micrometer set to readings 33'755, 33'640, 33'543, 33'484, 33'423, 33'360, 33'297, 33'234, 33'171, 33'108, 33'045, 32'982, 32'919, 32'856, 32'793, 32'730, 32'667, 32'604, 32'541, 32'478, 32'415, 32'352, 32'289, 32'226, 32'163, 32'100, 32'037, 31'974, 31'911, 31'848, 31'785, 31'722, 31'659, 31'596, 31'533, 31'470, 31'407, 31'344, 31'281, 31'218, 31'155, 31'092, 31'029, 30'966, 30'903, 30'840, 30'777, 30'714, 30'651, 30'588, 30'525, 30'462, 30'399, 30'336, 30'273, 30'210, 30'147, 30'084, 30'021, 29'958, 29'895, 29'832, 29'769, 29'706, 29'643, 29'580, 29'517, 29'454, 29'391, 29'328, 29'265, 29'202, 29'139, 29'076, 29'013, 28'950, 28'887, 28'824, 28'761, 28'698, 28'635, 28'572, 28'509, 28'446, 28'383, 28'320, 28'257, 28'194, 28'131, 28'068, 28'005, 27'942, 27'879, 27'816, 27'753, 27'690, 27'627, 27'564, 27'501, 27'438, 27'375, 27'312, 27'249,

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE. AND COMPUTATIONS OF APPARENT RIGHT ASCENSION.

1898GCAZMM

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.	Correction for Reduc- tion to Mean R.A. 1896.
															Collimation.							
															(Level).							
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Azimuth].							
				s	s	s	s	s	s	s	s	h m s	''	''	s	s	s	s	h m s	s		
Dec. 27	1	☉ 1 L.....	D	3 ⁸	6 ²	9 ¹	14 ⁴	17 ¹	20 ⁰	28 ⁰	30 ⁵	33 ²	36 ¹	18. 25. 19 ⁸⁸	+ 2 ⁸⁵	} 31 ⁶³	59 ¹³	56 ⁶²	56 ³⁸	18. 27. 28 ²⁰		
	2	☉ 2 L.....	D	...	28 ⁷	31 ³	36 ⁹	39 ⁵	42 ²	50 ¹	52 ⁹	55 ⁶	...	18. 27. 42 ²⁰	(- 1 ⁷⁸)							[+ 0 ²⁵]
	3	γ Ceti	D	47 ²	49 ⁹	52 ¹	57 ¹	59 ⁷	2 ¹	9 ³	12 ⁰	14 ⁴	16 ⁹	2. 37. 2 ¹¹	[+ 5 ⁸⁴]							56 ⁶³
	4	α Arietis	D	37 ⁴	40 ⁰	42 ⁵	47 ⁵	50 ¹	52 ⁷	0 ²	2 ⁹	5 ⁴	8 ⁰	2. 44. 52 ⁷¹								56 ⁶⁵
	5	Carrington 2328 S.P.	D	42 ⁵	47 ⁸	37 ⁴	56 ⁰	13 ⁶	33 ⁵	52 ⁰	11 ¹	...	...	3. 25. 5 ⁸⁴					15. 26. 3 ⁸¹	+ 11 ¹⁷		
	6	Groomb. 2247 S.P.	D	54 ⁷	58 ¹	2 ⁸	7 ³	19 ³	24 ⁰	29 ¹	...	...	...	3. 27. 10 ⁸⁸					15. 28. 16 ⁹³	- 0 ⁵⁹		
	7	Groomb. 2252 S.P.	D	...	...	...	...	46 ⁴	52 ⁰	58 ¹	9 ⁹	15 ⁴	20 ⁸	3. 28. 46 ⁵²					15. 29. 43 ⁶⁸	+ 0 ⁷¹		
	8	δ Eridani	D	8 ¹	10 ⁷	13 ³	18 ¹	20 ⁷	23 ³	30 ⁷	33 ²	36 ⁰	38 ⁴	3. 37. 23 ²⁹		20 ⁴⁸	56 ⁷¹		.....			
	9	Groombridge 742	D	44 ¹	52 ¹	0 ⁰	15 ⁴	22 ⁹	31 ²	...	...	...	...	3. 44. 31 ⁰⁵					3. 45. 27 ⁵⁴	- 10 ⁴³		
	10	Carrington 2447 S.P.	D	26 ⁸	44 ⁹	2 ⁰	21 ³	...	...	...	...	...	...	4. 11. 12 ⁹⁷					16. 12. 10 ⁹⁰	+ 13 ⁴⁵		
	11	W. B. (2) IV. 230	D	45 ⁹	48 ⁸	...	56 ⁹	59 ⁸	2 ⁷	10 ⁴	...	16 ¹	19 ⁴	4. 13. 2 ⁵⁴					4. 13. 59 ⁴⁸	- 5 ⁷¹		
	12	Piazzi IV. 56.....	D	12 ⁰	14 ⁸	17 ⁵	23 ¹	25 ⁹	28 ²	36 ⁴	39 ⁵	42 ²	45 ⁰	4. 14. 28 ⁵⁰					4. 15. 25 ⁷⁷	- 4 ⁴³		
	13	Lalande F. 659-0	D	...	...	...	...	...	...	36 ⁸	49 ⁹	6 ²	22 ²	4. 17. 50 ⁷⁸					4. 18. 46 ⁸¹	- 18 ⁸¹		
14	W. B. (2) IV. 601	D	50 ⁴	54 ⁰	56 ⁹	2 ⁸	6 ⁹	10 ²	...	...	...	...	4. 30. 10 ⁰³					4. 31. 6 ⁸⁹	- 6 ⁵²			
15	Groombridge 846	D	...	...	...	...	...	57 ¹	14 ⁹	21 ¹	27 ⁹	34 ⁷	4. 30. 56 ⁴⁴					4. 31. 53 ⁰⁴	- 10 ⁰⁶			
16	Carrington 2516 S.P.	D	...	...	...	...	49 ¹	55 ⁶	25 ³	51 ²	...	5 ⁴	30 ⁰	4. 40. 0 ⁹²					16. 40. 59 ²⁵	+ 22 ¹⁶		
17	Mars 1 L.	D	12 ⁹	15 ⁴	18 ⁴	24 ⁰	26 ⁷	29 ⁴	37 ⁵	40 ¹	42 ⁹	45 ⁹	4. 48. 29 ³⁶		} 30 ³⁰				4. 49. 26 ⁹⁸			
18	Mars 2 L.	D	14 ¹	16 ⁹	19 ⁹	25 ¹	28 ⁰	30 ⁷	38 ⁶	41 ⁵	44 ³	47 ¹	4. 48. 30 ⁶⁸									
19	W. B. (2) IV. 1227	D	...	20 ⁶	23 ²	28 ⁵	31 ²	34 ⁰	41 ⁵	44 ⁹	47 ⁸	...	4. 55. 34 ⁰¹									
20	δ Ursæ Min. S.P..	D	25 ²	48 ⁶	9 ⁹	44 ²	58 ¹	24 ⁸	...	...	...	...	6. 4. 3 ⁷⁶		34 ³⁰	6 ⁴⁴	3 ⁷³	57 ²⁹		4. 56. 30 ⁹⁸	- 5 ⁸¹	
Dec. 28	21	ξ Leonis.....	R	13 ⁰	15 ⁵	18 ¹	23 ¹	25 ⁹	28 ²	35 ⁸	38 ²	40 ⁸	43 ³	9. 25. 28 ²³	+ 2 ³⁷	} 28 ⁵³	25 ⁴¹	56 ⁸⁸	56 ⁸⁶			
	22	Groomb. 3523 S.P.	R	48 ⁹	52 ⁹	57 ¹	1 ²	14 ⁰	18 ¹	22 ²	30 ⁶	34 ⁹	38 ⁶	9. 33. 13 ⁷⁹	(- 2 ⁰⁴)							14 ²¹
	23	Carrington 3356 S.P.	R	55 ⁷	19 ⁹	39 ⁹	58 ¹	12 ⁶	27 ⁰	42 ⁰	4 ¹	15 ²	28 ²	9. 44. 38 ⁰²	42 ²⁹							
	24	Groomb. 3642 S.P.	R	...	...	...	...	12 ⁰	17 ⁰	22 ¹	53 ¹	24 ¹	9. 54. 51 ⁵⁶	52 ⁰⁸								
	25	Radcliffe 5555 S.P.	R	...	2 ⁶	7 ⁸	...	27 ⁸	32 ⁸	38 ¹	48 ⁰	53 ²	58 ²	10. 0. 27 ⁷⁹	28 ³²				22. 1. 25 ²⁸	0 ⁰⁰		
	26	Groomb. 3682 S.P.	R	...	4 ⁴	9 ⁹	14 ⁶	29 ⁶	34 ⁹	40 ⁰	50 ¹	55 ¹	...	10. 0. 29 ⁷³	30 ²⁶				22. 1. 27 ²²	0 ⁰⁰		
	27	Groomb. 3720 S.P.	R	...	8 ²	12 ⁴	16 ⁹	30 ¹	33 ⁹	38 ¹	46 ⁷	51 ³	...	10. 8. 29 ⁶²	30 ⁰⁶				22. 9. 27 ⁰³	- 0 ⁸²		
	28	Lalande 19985 ...	R	17 ¹	21 ¹	25 ⁴	34 ⁰	38 ⁰	42 ³	54 ⁹	59 ¹	3 ⁴	8 ⁰	10. 12. 42 ³⁹	42 ³⁹				10. 13. 39 ³⁶	- 6 ⁶⁴		
	29	α Antliae	R	12 ⁶	15 ⁶	18 ³	24 ¹	27 ⁰	30 ⁰	38 ¹	41 ¹	44 ¹	47 ¹	10. 21. 29 ⁸⁴	30 ⁴⁵				10. 22. 27 ⁴²	- 3 ⁹⁸		
	30	Groomb. 3833 S.P.	R	16 ⁰	20 ⁵	25 ²	29 ⁵	42 ⁸	47 ⁰	51 ⁹	0 ⁶	5 ⁰	9 ⁵	10. 30. 34 ⁷³	43 ¹⁹				22. 31. 40 ¹⁶	- 1 ⁰⁷		
	31	34 Sextantis	R	7 ⁵	10 ⁰	12 ⁵	17 ⁴	20 ⁰	22 ⁵	29 ⁷	32 ¹	34 ⁷	37 ²	10. 36. 22 ⁴⁰	22 ⁷⁶	19 ⁷⁴	56 ⁹⁸		.....			
	32	Groomb. 3883 S.P.	R	5 ⁹	14 ⁹	24 ⁰	32 ⁷	58 ⁸	7 ²	16 ⁵	34 ⁰	43 ¹	52 ⁰	10. 38. 58 ⁷⁸	59 ⁶²				22. 39. 56 ⁵⁹	+ 1 ⁷³		
	33	δ Leonis	R	3 ⁵	6 ⁰	8 ⁵	13 ⁴	16 ⁰	18 ⁵	25 ⁸	28 ¹	30 ⁸	33 ²	10. 54. 18 ⁴²	18 ⁷⁸	15 ⁷³	56 ⁹⁵		.....			
	34	Groomb. 3965 S.P.	R	53 ⁴	58 ⁰	2 ³	6 ⁵	18 ⁷	23 ⁵	28 ⁰	36 ⁵	40 ⁸	44 ⁹	10. 57. 19 ²⁰	19 ⁶⁴				22. 58. 16 ⁶¹	- 1 ⁶⁸		
	35	Lacaille 4614.....	R	27 ⁹	30 ⁷	34 ⁰	39 ⁰	...	...	...	...	...	...	11. 2. 44 ⁹⁴	45 ⁵³				11. 3. 42 ⁵¹	- 3 ⁹¹		
	36	Piazzi X. 257 ...	R	12 ⁰	16 ⁰	20 ⁵	29 ⁰	33 ²	37 ⁶	50 ²	54 ⁵	58 ⁹	3 ²	11. 4. 37 ⁵⁷	37 ⁵⁶				11. 5. 34 ⁵⁴	- 5 ⁷⁶		
	37	Groomb. 4043 S.P.	R	20 ⁰	24 ⁶	29 ⁸	34 ⁹	49 ³	54 ⁴	59 ³	8 ⁸	14 ⁰	18 ⁹	11. 14. 49 ³³	49 ⁸³				23. 15. 46 ⁸¹	- 1 ⁶⁹		
	38	Piazzi XXIII. 100 S.P.	R	40 ⁹	45 ⁵	50 ⁰	54 ⁹	...	13 ⁵	...	...	32 ⁰	...	11. 24. 8 ⁶⁸	9 ¹⁶				23. 25. 6 ¹⁴	- 2 ⁰¹		
	39	Piazzi XXIII. 101 S.P.	R	...	...	59 ⁹	4 ²	18 ¹	22 ⁹	27 ⁵	36 ⁹	...	...	11. 24. 18 ¹⁶	18 ⁶⁴				23. 25. 15 ⁶²	- 2 ⁰¹		
	40	Groomb. 4082 S.P.	R	...	...	...	...	7 ⁷	12 ¹	16 ⁸	26 ⁰	30 ⁹	35 ³	11. 25. 7 ⁵¹	7 ⁹⁶				23. 26. 4 ⁹⁷	- 2 ⁰⁴		
	41	Carrington 3629 S.P.	R	...	...	...	...	...	24 ⁵	44 ⁰	22 ⁵	41 ⁸	1 ⁰	11. 32. 5 ²⁵	6 ⁹⁴				23. 33. 3 ⁹²	+ 3 ⁵⁰		
	42	β Leonis	R	36 ⁸	39 ³	41 ⁹	46 ⁹	49 ⁵	52 ¹	59 ⁸	2 ¹	4 ⁹	7 ⁵	11. 42. 52 ¹²	52 ⁴⁰	49 ⁴²	57 ⁰²		.....			
	43	Groomb. 4205 S.P.	R	32 ⁹	39 ¹	45 ⁵	52 ⁰	10 ⁰	16 ⁸	22 ⁸	35 ¹	41 ⁴	47 ⁸	11. 56. 10 ²⁵	10 ⁸⁷				23. 57. 7 ⁸⁵	- 2 ²⁸		
	44	ε Corvi	R	36 ⁸	39 ³	42 ⁰	47 ³	50 ⁰	52 ⁵	0 ⁵	3 ¹	6 ⁰	8 ⁶	12. 3. 52 ⁶⁵	53 ¹⁸	50 ²⁵	57 ⁰⁷		.....			
	45	γ Virginis	R	26 ⁵	29 ¹	31 ⁸	36 ⁵	39 ¹	41 ⁵	48 ⁹	51 ⁴	53 ⁹	56 ⁴	12. 13. 41 ⁵⁵	41 ⁹²	38 ⁹¹	56 ⁹⁹		.....			
	46	* N.P.D. 31° 18' ..	R	...	...	...	17 ⁰	22 ⁰	26 ²	40 ³	...	50 ¹	55 ¹	12. 16. 26 ⁵⁰	26 ⁴⁵				12. 17. 23 ⁴⁴	- 4 ⁴¹		
	47	Piazzi 0. 104 S.P.	R	18 ⁵	23 ⁵	28 ⁶	33 ⁹	48 ²	53 ⁴	58 ³	8 ¹	13 ²	18 ¹	12. 26. 48 ³¹	48 ⁸¹				0. 27. 45 ⁸⁰	- 3 ³⁹		
48	Spica	WB	33 ⁵	36 ⁰	38 ⁶	43 ⁵	46 ⁰	48 ⁶	56 ¹	58 ⁵	1 ¹	3 ⁷	13. 18. 48 ⁶⁰	49 ⁰⁶	46 ²⁸	57 ²²	57 ⁰⁵	.....				
49	Polaris S.P.	WB	43 ⁶	50 ³	2 ⁸	8 ⁵	18 ⁹	27 ⁵	37 ⁵	47 ⁵	59 ⁹	6 ¹	13. 20. 15 ⁷²	23 ³⁴	19 ⁷⁹	56 ⁴⁵		.....				
50	m Virginis	WB	0 ¹	2 ⁵	5 ⁰	10 ⁰	12 ⁵	14 ⁹	22 ³	24 ⁸	27 ⁴	30 ⁰	13. 35. 14 ⁹⁹	15 ⁴⁴	12 ⁵²	57 ⁰⁸		13. 36. 12 ⁶³	- 3 ⁴²			
51	D 2 L.	WB	32 ⁰	34 ⁸	37 ⁵	42 ⁹	45 ⁴	48 ¹	56 ⁰	58 ⁸	1 ⁴	4 ¹	13. 51. 48 ¹⁴	48 ⁶⁵				13. 51. 35 ¹⁶				
52	τ Virginis	WB	12 ⁰	14 ²	16 ⁸	22 ⁰	24 ²	26 ⁹	34 ¹	36 ⁶	39 ¹	41 ⁶	13. 55. 26 ⁷⁹	27 ¹⁸	24 ⁴¹	57 ²³		13. 56. 24 ³⁷	- 3 ²⁷			

Correction for passage of Semidiameter, No. 51, — $70^s.70.$

5. Observed over wire X with the transit-micrometer set to readings $40^{\circ}6'00$, $38^{\circ}6'00$, $37^{\circ}6'00$, $36^{\circ}6'00$, $35^{\circ}6'00$, $34^{\circ}57.3$, $33^{\circ}56.2$, $32^{\circ}56.0$.
6, 10, 11, 12, 16, 23, 24, 35, 46. Observed in dark field with wires illuminated.
18. A correction of $+0^{\circ}.02$, for defect of illumination, has been applied in forming the concluded transit.
20. Observed over wire T with the transit-micrometer set to readings $35^{\circ}1'00$, $34^{\circ}5'50$, $34^{\circ}0'15$, $33^{\circ}1'80$, $32^{\circ}8'55$, $32^{\circ}2'28$.
23. Observed over wire S with the transit-micrometer set to readings $36^{\circ}3'43$, $35^{\circ}8'35$, $35^{\circ}4'72$, $35^{\circ}1'30$, $34^{\circ}8'64$, $34^{\circ}5'25$, $34^{\circ}0'72$, $33^{\circ}8'70$, $33^{\circ}6'10$, $33^{\circ}3'76$.
24. Cloudy. Observed over wires Q, P, O, N and M.
49. Observed over wire U with the transit-micrometer set to readings $35^{\circ}5'43$, $35^{\circ}4'84$, $35^{\circ}3'90$, $35^{\circ}2'98$, $35^{\circ}2'40$, $35^{\circ}1'67$, $35^{\circ}0'54$, $34^{\circ}9'76$, $34^{\circ}8'70$, $34^{\circ}8'25$.
51. Correction to R.A. on true meridian, $+0^{\circ}.02$.
16. Very faint.
19, 40. Observed in partially illuminated field.

No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of Collimation. (Level). (Azimuth).	Seconds of Transit Corrected.	Tabular R.A. of Known Stars.	Clock apparently Slow.	Adopted Clock Slow at Sidereal and (Lossing Rate).	Apparent R.A. of Centre from the Observation.	Correction for Reduction to Mean R.A. 1896.
			I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
			s	s	s	s	s	s	s	s	s	s								
Dec. 28	1 Arcturus	WB	...	...	...	...	57.6	0.4	8.1	10.8	13.5	16.1	14. 10. 0.37	+ 2.37	0.67	57.93	57.26	57.05	14. 10. 57.87	- 2.90
	2 Lalande 26150 ...	WB	...	...	...	...	...	...	6.5	9.0	11.9	14.4	14. 11. 58.82	(- 1.43)	59.33			[+ 0.25]	14. 12. 56.53	- 3.34
	3 ε Boötis	WB	14.9	17.7	20.6	26.1	28.8	31.8	40.0	42.9	45.8	48.5	14. 39. 31.75	[+ 5.84]	32.01	29.24	57.23		14. 40. 29.21	- 2.57
Dec. 29	4 ⊙ 1 L.	WB	55.0	57.7	0.5	6.0	8.5	11.2	19.3	22.0	24.8	27.5	18. 34. 11.29						18. 36. 20.14	
	5 ⊙ 2 L.	WB	17.1	19.9	22.6	28.0	30.6	33.3	41.4	44.3	46.8	49.6	18. 36. 33.40		22.90					
	6 α Aquilæ	WB	32.1	34.7	37.2	42.1	44.7	47.1	54.5	57.0	59.6	2.3	19. 44. 47.17		47.53	44.77	57.24		19. 45. 44.79	- 2.27
	7 Venus 1 L.	WB	19.9	22.4	25.1	30.2	32.8	35.3	43.1	45.8	48.3	51.1	21. 31. 35.44		35.94				21. 32. 33.82	
Dec. 30	8 Rigel	R	...	...	...	34.3	36.9	39.4	46.9	...	...	...	5. 8. 39.43	(- 2.50)	39.94	37.19	57.25	57.20	.....	
	9 δ Leonis	B	25.4	28.3	30.9	36.2	38.8	41.5	49.3	52.0	54.6	57.4	11. 7. 41.48	[+ 7.63]	41.76	39.33	57.57	57.43	11. 8. 39.29	- 4.66
	10 δ Crateris	B	59.2	1.6	4.2	9.3	11.9	14.6	22.1	24.6	27.1	29.7	11. 13. 14.47		15.04	12.50	57.46		11. 14. 12.57	- 4.11
	11 β Leonis	B	36.5	38.9	41.5	46.6	49.2	51.8	59.3	1.9	4.4	7.1	11. 43. 49.62		52.09	49.49	57.40		11. 43. 49.62	- 4.25
	12 ζ Herculis	B	8.1	11.0	14.0	19.8	22.6	25.5	34.2	37.1	40.1	43.2	16. 32. 25.60		25.80	23.43	57.63		16. 37. 23.38	- 1.53
	13 α Herculis	B	43.2	45.5	48.4	53.3	55.8	58.5	6.0	8.6	11.2	13.9	17. 8. 58.48		58.82	56.37	57.55		17. 9. 56.40	- 2.11
	14 α Ophiuchi	B	...	...	...	...	...	10.5	18.0	20.6	23.1	25.7	17. 29. 10.52		10.87	8.48	57.61		17. 30. 8.45	- 2.13
	15 β Ophiuchi	B	9.5	12.0	14.4	19.4	21.7	24.5	31.6	34.2	36.8	39.2	17. 37. 24.37		24.78	22.40	57.62		17. 38. 22.36	- 2.36
	16 μ Herculis	B	10.1	12.9	15.6	21.1	24.0	26.9	35.0	37.8	40.7	43.6	17. 41. 26.81		27.05	24.69	57.64		17. 42. 24.63	- 1.45
	17 δ Ursæ Minoris ...	AC	46.8	52.7	59.4	8.5	15.0	22.2	28.9	35.1	42.2	49.7	18. 4. 10.34		5.75	3.66	57.91	57.44	18. 5. 3.38	+ 46.99
Dec. 31	18 ⊙ 1 L.	AC	...	...	51.3	56.6	...	1.9	...	...	...	...	18. 43. 2.00					[+ 0.25]	18. 45. 11.31	
	19 ⊙ 2 L.	AC	...	...	...	18.6	21.3	...	...	34.7	37.4	40.2	18. 45. 24.03		13.67					
	20 α Aquilæ	AC	...	...	...	...	...	54.2	56.8	1.7	16.7	31.6	19. 44. 46.80		47.18	44.78	57.60		19. 45. 44.83	- 2.28
	21 Groombridge 108	AC	...	...	...	...	...	42.4	56.8	2.0	6.8	11.4	0. 31. 42.38		42.22			57.69	0. 32. 39.92	- 3.42
	22 Oeltz. Arg. (N.) 603	AC	19.6	24.9	29.8	39.4	44.6	49.3	4.0	9.2	13.9	19.1	0. 33. 49.45		49.29				0. 34. 46.99	- 3.45
	23 20 Ceti	AC	32.4	34.6	37.3	42.4	44.7	47.2	54.6	57.0	59.5	2.1	0. 46. 47.22		47.69	45.35	57.66		0. 47. 45.39	- 3.86
	24 β Andromedæ ...	AC	42.3	45.2	48.3	54.6	57.5	0.7	9.5	12.6	15.5	18.7	1. 3. 0.53		0.70	58.46	57.76		1. 3. 58.40	- 4.03
	25 Polaris	AC	41.0	49.8	57.0	4.0	13.5	20.2	28.2	54.9	1.7	7.9	1. 20. 32.63		19.50				1. 21. 17.20	- 23.94
	26 η Piscium	S	46.0	48.6	51.3	56.4	59.0	1.3	9.0	11.5	14.2	16.8	1. 25. 1.45		1.78	59.13	57.35	57.36	.....	
	27 ν Piscium	S	52.5	54.9	57.6	2.4	4.9	7.3	14.7	17.2	19.8	22.3	1. 35. 7.40		7.81	5.20	57.39		.....	
	28 67 Ceti	WS	38.9	41.3	43.8	48.8	51.1	53.8	1.2	3.6	6.2	8.8	2. 10. 53.79		54.29	51.97	57.68	57.64	.....	
	29 Groomb. 2111 S.P.	S	25.1	29.5	33.8	38.2	50.5	54.8	59.2	7.3	11.6	15.7	2. 20. 50.51		51.15			57.36	14. 21. 48.53	- 1.95
	30 ν Ceti	S	16.7	19.1	21.7	26.5	29.0	31.5	38.9	41.3	44.0	46.6	2. 29. 31.57		31.98	29.38	57.40		.....	
	31 σ Arietis	WS	36.5	38.9	41.6	46.6	48.9	51.7	59.3	1.7	4.5	6.9	2. 44. 51.70		52.03	49.68	57.65	57.64	.....	
	32 Groomb. 2247 S.P.	AC	53.1	57.2	1.5	6.1	18.7	22.9	27.3	35.8	40.1	44.5	3. 27. 18.66		19.31			57.69	15. 28. 17.04	- 0.72
	33 11 Tauri	AC	24.7	27.3	29.9	35.4	38.1	40.9	48.9	51.8	54.4	57.3	3. 33. 40.91		41.16	38.85	57.69		3. 34. 38.89	- 5.36
	34 δ Eridani	AC	7.1	9.6	12.2	17.1	19.7	22.3	29.6	32.2	34.7	37.3	3. 37. 22.22		22.75	20.46	57.71		3. 38. 20.48	- 4.57
	35 η Tauri	AC	9.3	11.9	14.5	19.9	22.7	25.3	33.4	36.1	38.8	41.4	3. 40. 25.37		25.64	23.39	57.75		3. 41. 23.37	- 5.35
	36 Oeltz. Arg. (N.) 4226	AC	56.8	21.0	45.2	49.2	53.3	...	...	...	...	...	3. 45. 9.41		9.38				3. 46. 7.11	- 6.91
	37 ν Eridani	AC	28.9	32.0	35.0	40.9	43.8	46.9	56.0	59.2	1.9	5.1	3. 48. 47.01		47.81				3. 49. 45.54	- 4.21
	38 ω ¹ Tauri	R. AC	...	...	...	...	...	10.7	13.4	...	...	...	4. 2. 13.36		13.97	11.69	57.72		4. 3. 11.70	- 5.37
	39 W. B. (2) IV. 230	AC	11.5	28.0	44.8	47.4	50.3	...	...	...	...	...	4. 13. 1.37		1.62				4. 13. 59.35	- 5.71
	40 Lalande 8129-0 ...	AC	...	...	...	11.3	14.0	16.8	24.8	27.4	30.3	33.0	4. 13. 16.81		17.46				4. 14. 15.19	- 4.45
	41 Lalande 8312-3 ...	AC	...	...	...	...	...	...	...	...	23.5	39.7	4. 17. 50.78		51.47				4. 18. 49.20	- 4.42
	42 Piazzini IV. 112 R.	AC	5.6	15.4	26.1	45.8	55.8	6.2	...	...	...	...	4. 34. 6.00		6.41				4. 35. 4.15	- 14.00
	43 Piazzini IV. 112 ...	AC	...	...	...	...	...	...	46.9	57.3	7.4	7.4	4. 34. 7.31		6.48				4. 35. 4.22	- 14.00
	44 Groombridge 876	AC	...	...	...	47.4	0.7	7.1	14.1	33.1	40.1	...	4. 42. 13.88		13.48				4. 43. 11.22	- 10.50
	45 Mars 1 L.	AC	...	...	...	...	...	15.8	18.5	21.3	29.3	32.1	4. 44. 21.27							
	46 Mars 2 L.	AC	...	...	...	...	...	16.8	19.5	22.5	30.5	33.2	4. 44. 22.39							
	47 9 Aurigæ	AC	17.6	21.8	25.5	33.5	37.3	41.3	53.3	57.2	1.6	5.8	4. 57. 41.53		41.51				4. 58. 39.25	- 7.65
	48 Lalande F. 713 ...	AC	...	...	...	...	...	...	...	24.4	15.0	53.6	4. 59. 5.30		3.75				5. 0. 1.49	- 21.31
	49 Lalande F. 715-6	AC	...	...	...	...	...	34.7	56.9	21.2	28.0	...	5. 10. 20.68		18.34				5. 11. 16.08	- 29.40
	50 Radcliffe 3749 S.P.	AC	26.4	45.2	56.4	18.8	27.0	...	...	...	...	...	5. 27. 52.61		56.02				17. 28. 53.77	+ 27.33
	51 κ Orionis	AC	41.0	43.4	46.0	50.9	53.3	56.1	3.4	5.9	8.3	10.9	5. 41. 55.96		56.49	54.27	57.78		5. 42. 54.24	- 4.87

Correction for passage of Semidiameter, No. 7, + 0.61.

2, 4, 5, 29, 49. Very faint.

17. Observed over wire O with the transit-micrometer set to readings 35° 26.5, 35° 42.1, 35° 58.9, 35° 81.0, 36° 00.0, 36° 14.2, 36° 29.1, 36° 44.7, 36° 60.5, 36° 79.5.

20. Observed over wires U, V, X, Y and Z.

25. Observed over wire R with the transit-micrometer set to readings 35° 09.2, 35° 16.6, 35° 23.0, 35° 27.7, 35° 34.9, 35° 41.7, 35° 49.2, 35° 70.8, 35° 77.9, 35° 83.0.

32. Observed in partially illuminated field.

41. Observed over wires Y and Z.

46. A correction of + 0.02, for defect of illumination, has been applied in forming the concluded transit.

47. Very cloudy.

50. Observed over wire X with the transit-micrometer set to readings 37° 21.5, 36° 57.1, 36° 19.2, 35° 39.9, 35° 11.6.

8, 9, 10. Cloudy.

22, 37, 44, 48, 49. Observed in dark field with wires illuminated.

36, 39. Observed over wires M, N, O, P and Q.

43. Observed over wires V, W, X and Y.

48. Observed over wires W, Y and Z.

TRANSITS OBSERVED WITH THE TRANSIT-CIRCLE, AND COMPUTATIONS OF APPARENT RIGHT ASCENSION,

MONTH and DAY.	No. for Reference.	NAME OF OBJECT.	Observer.	Seconds of Transit over the Wires.										Concluded Transit over the Centre Wire.	Error of		Seconds Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at Sidereal and [Losing Rate].	Apparent of C.A. Centre from the Observation.	Correction for Re- duction to Mean R.A. 1896.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].						
s	s	s	s	s	s	s	s	s	s	h m s	s	s	s	s	h m s	s						
Dec. 31	1	α Orionis	AC	24.7	27.2	29.7	34.6	37.1	39.6	47.1	49.5	52.1	54.6	5.48.39.66	+ 2.37	40.06	37.81	57.75	57.69	5.49.37.81	- 5.36	
	2	Groombridge 1082	AC	3.8	54.4	2.7	11.3	...	...	...	...	...	...	6.4.45.04	(- 2.50)	44.40			[+ 0.25]	6.5.42.15	- 13.85	
	3	δ Ursæ Min. S.P.	AC	44.5	18.3	24.7	29.9	39.8	50.7	57.4	3.2	10.0	16.9	6.4.0.45	[+ 7.63]	5.63	3.64	58.01		18.5.3.38	+ 47.01	
	4	Groombridge 1004	AC	12.2	57.4	16.2	24.4	33.5	46.2	57.3	...	...	...	6.6.19.82		15.00				6.7.12.75	- 57.04	
	5	Piazzi V. 343.....	AC	4.9	33.8	38.8	43.7	...	...	...	...	...	...	6.6.2.92		2.77				6.7.0.52	- 9.25	
	6	μ Geminorum ...	AC	31.9	34.6	37.5	42.6	45.3	48.1	55.9	58.8	1.3	4.1	6.15.48.05		48.33	46.07	57.74		6.16.46.09	- 5.99	
	7	Carrington 889...	AC	...	...	...	9.2	45.3	...	...	45.2	...	...	6.21.22.22		18.32				6.22.16.08	- 48.10	
	8	ξ Geminorum	AC	...	21.8	24.5	...	...	34.6	42.1	...	...	49.7	6.38.34.56		34.90	32.69	57.79		6.39.32.66	- 5.60	
	9	Groomb. 2719 S.P.	AC	22.9	31.6	40.9	50.0	...	...	...	...	...	...	6.47.16.31		17.59				18.48.15.35	+ 7.04	
	10	θ Canis Majoris ..	AC	12.9	15.2	18.0	...	...	...	...	...	...	...	6.48.27.99		28.53	26.25	57.72		6.49.26.29	- 4.83	
	11	Cephei 51.....	AC	44.2	51.3	56.7	2.9	9.2	14.7	19.7	24.9	30.7	...	6.52.0.11		54.48				6.52.52.24	- 66.67	
	12	Pollux	AC	48.5	51.1	54.1	59.8	2.5	5.4	13.7	16.5	19.2	22.1	7.38.5.33		5.56	3.30	57.74		7.39.3.33	- 6.16	
	13	Groombridge 1440	B	...	...	...	39.2	46.7	54.3	15.2	...	...	...	8.24.54.00		53.52			57.67	8.25.51.28	- 11.71	
	14	Groombridge 1466	B	...	...	...	...	...	18.3	21.5	42.8	3.8	...	8.33.0.62		0.68				8.33.58.44	- 7.09	
	15	Groomb. 3272 S.P.	B	...	...	...	...	...	46.5	55.5	...	4.4	...	8.39.37.40		38.09				20.40.35.85	+ 0.73	
	16	Groomb. 3297 S.P.	B	55.8	2.7	9.8	17.1	...	...	...	...	...	...	8.39.37.95		39.00				20.40.36.76	+ 3.65	
	17	B.D.+17° No. 1947	B	12.2	14.9	17.5	22.6	25.2	27.9	35.3	38.2	40.8	43.3	8.42.27.83		28.15				8.43.25.91	- 5.53	
	18	* N.P.D. 72° 22' ..	B	...	...	14.0	18.9	21.6	24.3	32.1	34.5	...	...	8.44.24.28		24.60				8.45.22.36	- 5.52	
	19	Radcliffe 2198 ...	B	25.4	35.6	41.2	46.5	53.0	59.5	...	...	...	...	8.46.58.50		55.42				8.47.53.18	- 34.93	
	20	α Cancri	B	18.9	21.3	24.0	29.1	31.5	34.2	41.8	44.5	46.9	49.5	8.50.34.21		34.54				8.51.32.30	- 5.43	
	21	α Cancri	B	40.0	42.6	45.1	50.0	52.7	55.2	2.8	5.2	7.8	10.3	8.51.55.21		55.57	53.28	57.71		8.52.53.33	- 5.31	
	22	Groomb. 3364 S.P.	B	...	...	...	...	36.2	40.8	45.3	53.6	58.2	2.7	8.55.36.34		37.01				20.56.34.77	+ 0.33	
	23	Groomb. 3375 S.P.	B	...	...	48.8	53.3	6.7	11.3	15.9	24.7	...	...	8.58.6.69		7.37				20.59.5.13	+ 0.45	
	24	Groomb. 3382 S.P.	B	55.6	59.8	4.7	9.1	22.5	...	...	...	...	...	8.59.22.36		23.03				21.0.20.79	+ 0.42	
	25	Groomb. 3392 S.P.	B	9.4	13.5	18.2	22.9	...	...	...	...	...	...	9.0.36.10		36.78				21.1.34.54	+ 0.43	
	26	Groomb. 3405 S.P.	B	52.9	57.3	1.7	6.5	19.9	24.5	28.7	37.7	42.3	46.7	9.5.19.75		20.43				21.6.18.19	+ 0.38	
	27	83 Cancri	B	2.3	4.8	7.4	12.7	15.2	18.0	25.6	28.3	30.9	33.5	9.12.17.91		18.22	16.00	57.78		9.13.15.99	- 5.39	
	28	83 Cancri ..(E&E)	B	22.6	38.1	53.7	9.1	25.0	40.5	55.9	...	...	...	9.12.17.87		18.18	16.00	57.82		.....		
	29	Bradley 2832 S.P.	B	14.2	38.6	1.4	24.8	32.8	...	...	...	...	...	9.20.32.42		35.37				21.21.33.14	+ 18.48	
	30	Groomb. 3471 S.P.	B	...	...	...	...	33.9	38.8	43.8	53.3	58.4	3.1	9.23.34.00		34.74				21.24.32.51	+ 0.49	
	31	Groomb. 3486 S.P.	B	42.8	53.0	3.0	12.6	...	...	...	...	...	...	9.23.42.02		43.41				21.24.41.18	+ 5.54	
	32	Groomb. 3473 S.P.	B	...	...	...	...	...	...	32.9	37.4	41.7	8.4	9.24.15.33		16.00				21.25.13.77	+ 0.02	
	33	Groomb. 3485 S.P.	B	24.9	28.8	33.0	36.9	48.8	52.8	56.8	4.7	8.7	12.7	9.26.48.75		49.36				21.27.47.13	- 0.47	
	34	Groomb. 3492 S.P.	B	...	...	...	...	31.7	36.4	41.2	50.0	54.7	59.2	9.27.31.87		32.56				21.28.30.33	+ 0.11	
	35	Groomb. 3494 S.P.	B	...	...	5.2	9.7	23.1	27.7	32.2	41.2	...	...	9.28.23.09		23.78				21.29.21.55	+ 0.11	
	36	Oeltz Arg. (N.) 2257 S.P.	B	...	...	...	...	37.8	42.6	46.9	55.9	0.6	5.3	9.32.37.85		38.54				21.33.36.31	+ 0.05	
	37	Groomb. 3526 S.P.	B	...	...	...	...	30.0	34.7	39.3	48.5	52.8	57.3	9.33.30.10		30.79				21.34.28.56	+ 0.04	
	38	Oeltz Arg. (N.) 2264 S.P.	B	...	...	26.5	31.2	44.5	49.3	53.8	2.8	...	...	9.34.44.59		45.28				21.35.43.05	+ 0.01	
	39	Groomb. 3536 S.P.	B	...	...	27.3	32.1	45.3	50.2	54.7	3.4	...	...	9.34.45.41		46.10				21.35.43.87	0.00	
	40	Oeltz Arg. (N.) 2268 S.P.	B	...	...	28.8	33.3	46.9	51.2	55.9	5.0	...	...	9.34.46.76		47.45				21.35.45.22	+ 0.01	
	41	Groomb. 3540 S.P.	B	...	...	...	1.6	14.9	19.9	24.2	...	...	...	9.35.15.06		15.75				21.36.13.52	0.00	
	42	Groomb. 3583 S.P.	B	33.8	38.1	42.4	46.5	59.1	3.0	7.0	15.7	19.8	24.0	9.44.58.88		59.51				21.45.57.28	- 0.51	
	43	Groomb. 3587 S.P.	B	59.8	4.1	8.4	12.6	24.9	29.2	33.2	41.7	45.8	50.1	9.45.24.92		25.56				21.46.23.33	- 0.51	
	44	Piazzi XXI. 328 (1st Star) S.P.	B	...	...	...	...	...	1.3	6.4	16.4	21.5	26.8	9.46.56.02		56.79				21.47.54.56	+ 0.39	
	45	Piazzi XXI. 328 (2nd Star) S.P.	B	...	...	...	...	...	1.9	6.8	16.8	22.2	27.3	9.46.56.54		57.31				21.47.55.08	+ 0.39	
	46	Groomb. 3604 S.P.	B	...	...	...	...	...	...	2.6	8.6	14.8	51.9	9.47.37.91		38.84				21.48.36.61	+ 1.34	
	47	Groomb. 3642 S.P.	B	19.8	24.9	30.2	35.3	...	...	...	...	...	...	9.54.50.46		51.23				21.55.49.00	+ 0.24	
	48	Groomb. 3644 S.P.	B	...	...	...	...	50.6	56.0	1.3	11.6	17.1	22.4	9.54.50.57		51.38				21.55.49.15	+ 0.40	
	49	Groomb. 3646 S.P.	B	47.0	52.6	58.1	3.4	18.8	24.4	29.8	40.2	45.5	50.9	9.55.18.99		19.80				21.56.17.57	+ 0.40	
	50	Groomb. 3651 S.P.	B	...	...	...	33.5	37.7	49.9	54.4	58.6	6.5	...	9.56.50.02		50.64				21.57.48.41	- 0.70	
	51	15 Cephei S.P. ...	B	3.1	7.9	13.1	17.8	...	...	...	...	...	...	9.59.32.13		32.87				22.0.30.64	- 0.12	
	52	Piazzi XXI. 401 S.P..	B	21.9	26.8	31.8	36.7	...	...	...	...	...	...	9.59.50.98		51.72				22.0.49.49	- 0.10	
	53	Oeltz Arg. (N.) 2335 S.P.	B	...	...	...	40.8	55.1	59.8	4.8	...	...	...	9.59.55.03		55.77				22.0.53.54	- 0.11	
	54	Oeltz Arg. (N.) 2336 S.P.	B	...	...	46.0	50.7	...	9.8	15.1	24.4	...	...	10.0.5.09		5.83				22.1.3.60	- 0.10	

Correction to the time by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, No. 28, — 111^s.44.

- 2, 5, 7, 14, 17. Observed in dark field with wires illuminated. 2, 5. Observed over wires N, O, P and Q.
3. Observed over wire X with the transit-micrometer set to readings 41^r.464, 40^r.639, 40^r.503, 40^r.366, 40^r.157, 39^r.886, 39^r.724, 39^r.566, 39^r.423, 39^r.248.
4, 10. Very faint; cloudy.
4. Observed over wire O with the transit-micrometer set to readings 30^r.441, 34^r.242, 34^r.670, 34^r.850, 35^r.055, 35^r.339, 35^r.614.
11. Observed over wire O with the transit-micrometer set to readings 33^r.006, 33^r.150, 33^r.254, 33^r.375, 33^r.506, 33^r.611, 33^r.720, 33^r.815, 33^r.936. 13. Cloudy.
14. Observed over wires W, X, Y and Z. 19. Observed over wire T with the transit-micrometer set to readings 36^r.516, 36^r.880, 37^r.075, 37^r.268, 37^r.486, 37^r.703.
32, 46. Observed over wires Q, P, O and N.

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10. Observed over wire X with the transit-micrometer set to readings 36° 210, 36° 620, 37° 135, 38° 357, 39° 025.

11, 14, 27. Observed over wires Q, P, O and N.

22. A correction of - 0.80, for defect of illumination, has been applied in forming the concluded transit.

32, 33, 37. Observed in dark field with wires illuminated.

20. Observed in partially illuminated field.

39. Observed over wires M, N, Y and Z.