

ROYAL OBSERVATORY, GREENWICH.

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

1905.

NOTES.

The observations here printed in detail are those of the Sun, Moon, Mösting A, Planets, Fundamental and Adjustment Stars.

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 $35^{\circ}600$, except where otherwise noted.

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

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 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
1907																				
Jan. 7	1	λ Aquarii.....	JS	...	...	15.5	20.8	23.2	25.8	33.0	35.5	...	...	22.48.25.77	+ 5.86	25.77	38.47	-47.30	- 47.06	22.47.38.41
	2	2 Ceti.....	JS	23.2	25.6	28.4	33.7	36.2	39.0	46.5	49.0	51.6	54.3	23.59.38.91	(- 9.57)	39.00	51.62	-47.38	(- 0.32)	23.58.51.62
	3	γ Pegasi.....	JS	52.4	54.8	57.3	2.7	5.0	7.6	15.0	17.6	20.2	22.8	0.9.7.70	(- 1.23)	7.52	20.17	-47.35	- 47.38	0.8.20.14
	4	λ Polaris.....	JS	48.7	59.3	5.9	12.7	18.7	26.1	33.1	41.1	48.4	55.8	1.26.5.09		1.89	14.48	-47.41		.....
	5	η Piscium.....	JS	56.0	58.6	1.2	6.7	8.9	11.4	19.0	21.4	24.1	26.8	1.27.11.57		11.39	23.93	-47.46		1.26.23.99
	6	η Geminorum.....	JS	...	43.9	46.6	52.2	54.8	57.3	5.2	8.0	10.7	...	6.9.57.50		57.27	9.74	-47.53		6.9.9.81
	7	μ Geminorum.....	JS	45.4	48.1	50.8	56.2	58.9	1.5	9.4	12.1	14.8	17.4	6.18.1.63		1.40	13.96	-47.44		6.17.13.94
Jan. 9	8	γ Pegasi.....	SD	52.5	55.1	57.5	2.9	5.3	8.0	15.3	18.0	20.7	23.1	0.9.8.00	+ 5.60	7.81	20.15	-47.66	- 47.58	0.8.20.23
	9	ι Ceti.....	SD	7.2	9.5	12.1	17.2	19.6	22.2	29.6	32.1	34.8	37.1	0.15.22.30	(- 8.76)	22.25	34.59	-47.66	(- 0.36)	0.14.34.67
	10	β Andromedæ.....	J	54.8	57.8	0.7	7.0	9.9	13.1	21.9	24.8	27.9	30.9	1.5.13.07	- 2.36	12.79	24.74	-48.05	- 47.89	1.4.24.88
	11	λ Polaris.....	J	38.7	45.2	50.1	55.0	0.1	5.3	9.4	15.2	21.0	25.6	1.26.2.25		2.47	12.23	-50.24		1.25.14.56
	12	δ Arietis.....	J	44.7	47.2	49.7	55.2	57.7	0.4	8.1	10.8	13.3	15.9	3.7.0.46		0.24	12.28	-47.96		3.6.12.30
	13	Groombridge 2283 S.P.....	J	7.0	14.4	19.7	23.6	28.8	33.5	39.5	45.0	50.2	55.9	3.8.2.16		1.32	14.43	-46.89		15.7.13.38
	14	ι Aurigæ.....	SD	19.4	22.4	25.3	31.3	34.5	37.3	45.9	49.0	51.9	54.8	4.51.37.36		37.09	49.49	-47.60	- 47.58	4.50.49.44
	15	δ Ursæ Minoris S.P.....	J	20.7	27.2	31.4	35.2	39.1	43.2	47.1	53.6	58.1	2.1	6.3.23.99		23.24	35.06	-48.18	- 47.89	18.2.35.26
	16	η Geminorum.....	J	41.4	44.6	47.0	52.7	55.2	58.0	5.7	8.4	11.1	13.6	6.9.57.94		57.71	9.75	-47.96		6.9.9.73
	17	μ Geminorum.....	SD	45.6	48.4	50.9	56.6	59.1	1.8	9.6	12.3	15.0	17.6	6.18.1.86		1.63	13.98	-47.65	- 47.58	6.17.13.96
	18	β Canis Majoris.....	SD	3.7	6.7	9.2	14.7	17.2	19.6	27.2	29.9	32.6	35.2	6.19.19.76		19.77	32.15	-47.62		6.18.32.10
	19	ν Geminorum.....	SD	52.5	55.0	57.5	3.1	5.7	8.4	16.1	18.7	21.2	24.1	6.24.8.39		8.17	20.50	-47.67		6.23.20.49
	20	Cephei 51.....	J	18.3	27.7	31.8	43.2	58.8	11.1	18.5	30.4	42.7	48.7	6.57.22.12		21.94	35.18	-46.76	- 47.89	6.56.33.95
	21	51 Geminorum.....	J	28.7	31.0	33.6	39.1	41.4	44.2	51.7	54.6	56.8	59.4	7.8.44.21		44.01	56.13	-47.88		7.7.56.01
	22	λ Ursæ Minoris S.P.....	J	45.3	53.1	58.6	3.9	10.7	16.7	21.9	26.9	31.9	37.1	7.16.36.92		35.59	46.82	-48.77		19.15.47.59
	23	β Canis Minoris.....	J	34.2	36.7	38.9	44.3	46.7	49.1	56.2	59.0	1.3	3.9	7.22.49.19		49.03	1.09	-47.94		7.22.1.00
	24	6 Cancri.....	J	13.3	16.2	19.1	24.9	27.4	30.6	38.7	41.3	44.2	47.1	7.58.30.46		30.20	42.20	-48.00		7.57.42.19
	25	Groombridge 1119.....	J	2.6	7.6	11.7	15.2	20.4	25.9	30.6	35.3	40.2	43.9	8.5.1.21		1.50	14.07	-47.43		8.4.13.49
	26	83 Cancri.....	JS	14.6	16.8	19.3	24.8	27.2	30.0	37.5	40.2	42.8	45.3	9.14.30.03		29.81	41.68	-48.13	- 47.98	.....
	27	α Hydræ.....	JS	29.3	31.6	34.1	39.3	41.6	44.5	51.5	54.1	56.7	59.1	9.23.44.34		44.28	56.17	-48.11		.....
Jan. 10	28	⊙ 1 L.....	W	16.7	19.2	22.0	27.4	30.0	32.7	40.6	43.3	46.1	48.8	19.24.32.84	(- 7.68)	43.33	34.24	-48.13	- 47.73	19.24.55.31
	29	⊙ 2 L.....	W	37.4	40.1	42.8	48.3	50.9	53.7	1.2	4.1	6.7	9.3	19.26.53.61	(- 2.09)					
	30	ι Pegasi.....	W	6.0	8.8	11.2	17.1	19.5	22.7	30.5	33.3	35.9	38.7	22.3.22.54		22.37	34.24	-48.13		22.2.34.31
	31	Venus 1 L.....	W	17.3	19.7	22.3	27.5	29.8	32.8	39.9	42.7	45.0	47.5	22.24.32.61		32.62				22.23.45.20
	32	μ Pegasi.....	W	56.1	58.9	1.3	7.0	9.5	12.6	30.3	23.2	25.7	28.4	22.46.12.47		12.31	24.19	-48.12		22.45.24.24
	33	Bradley 3147.....	W	4.3	7.5	10.9	14.0	29.1	32.6	35.3	39.1	49.9	53.8	23.28.35.72		36.36	48.07	-48.29		.....
	34	α Andromedæ.....	W	59.3	2.3	5.0	10.8	13.3	16.6	24.7	27.3	30.2	33.0	0.4.16.43		16.26	28.16	-48.10	- 48.09	0.3.28.17
	35	γ Pegasi.....	W	52.9	55.2	57.8	3.2	5.7	8.4	15.6	18.3	20.9	23.3	0.9.8.29		8.17	20.13	-48.04		0.8.20.08
	36	Bradley 1672 S.P.....	W	28.2	31.3	35.0	38.2	49.3	52.6	55.5	59.2	9.4	12.7	0.15.6.72		4.38	16.07	-48.31		.....
	37	λ Polaris.....	SD	39.2	49.3	10.7	14.6	20.1	39.0	51.2	57.3	...	...	1.25.56.57		58.98	11.11	-47.87	- 47.99	.....
	38	η Piscium.....	SD	...	...	1.6	7.1	...	12.0	19.5	22.1	...	...	1.27.12.08		11.95	23.89	-48.06		.....
	39	ν Piscium.....	SD	...	4.8	7.1	12.2	14.7	17.2	24.2	27.0	29.3	...	1.37.17.21		17.13	29.14	-47.99		.....
	40	α Arietis.....	SD	21.2	23.8	...	...	...	37.2	...	48.0	50.6	53.5	2.2.37.42		37.26	49.25	-48.01		.....
	41	Groombridge 2283 S.P.....	W	46.3	51.8	55.7	59.6	3.5	6.9	10.7	14.4	17.8	21.2	3.8.4.87		3.02	14.91	-48.11	- 48.09	.....
	42	α Tauri.....	W	15.6	18.1	20.7	25.6	28.1	30.7	38.0	40.6	43.1	45.5	3.20.30.76		30.66	42.52	-48.14		3.19.42.52
	43	ε Eridani.....	W	0.6	3.1	5.8	10.8	13.1	15.8	...	25.8	28.2	30.7	3.29.15.86		15.86	27.72	-48.14		3.28.27.72
	44	α Leporis.....	W	5.9	8.5	10.9	16.4	18.8	21.4	29.1	31.6	34.2	36.8	5.29.21.52		21.58	33.43	-48.15		5.28.33.41
	45	ι Geminorum.....	W	53.9	56.7	59.2	4.8	7.2	10.1	18.0	20.7	23.3	26.1	5.59.10.17		10.01	21.89	-48.12		5.58.21.83
	46	ζ Herculis.....	JS	11.9	14.8	17.5	23.6	26.6	29.4	37.9	40.9	43.9	46.8	16.38.29.51	(- 7.68)	29.33	40.80	-48.53	- 48.32	16.37.40.76
	47	κ Ophiuchi.....	JS	42.7	44.9	47.3	52.6	54.9	57.5	5.0	7.3	9.7	12.6	16.53.57.63	(- 2.01)	57.53	8.95	-48.58		16.53.8.96
	48	ε Herculis.....	JS	...	...	...	20.8	23.4	26.7	34.8	37.6	40.6	43.5	16.57.26.48		26.31	37.74	-48.57		16.56.37.73
	49	α Ophiuchi.....	JS	3.4	5.9	8.5	13.5	16.0	18.8	26.0	28.7	31.1	33.6	17.31.18.71		18.60	30.02	-48.58		17.30.30.02
	50	β Ophiuchi.....	JS	...	21.4	23.8	29.1	31.3	34.0	41.2	43.6	46.2	...	17.39.33.99		33.92	45.31	-48.61		17.38.45.33

Corrections for passage of Semidiameter, No. 31, +0.65.

4. Observed over wire R with the transit-micrometer set to readings 33°403, 33°481, 33°553, 33°623, 33°644, 33°680, 33°781, 33°865, 33°930, 33°991. Faint; cloudy.
11. Observed over wire R with the transit-micrometer set to readings 35°363, 35°432, 35°471, 35°522, 35°558, 35°598, 35°637, 35°674, 35°691, 35°761.
13. Observed over wire T with the transit-micrometer set to readings 35°518, 35°588, 35°604, 35°627, 35°651, 35°667, 34°963, 34°883, 34°801, 34°701.
15. Observed over wire Q with the transit-micrometer set to readings 35°502, 35°517, 35°5183, 35°5109, 35°5017, 34°938, 34°826, 34°688, 34°557, 34°463.
20. Observed over wire U with the transit-micrometer set to readings 34°998, 35°501, 35°523, 35°473, 35°789, 36°048, 36°174, 36°419, 36°653, 36°804.
22. Observed over wire R with the transit-micrometer set to readings 34°570, 34°514, 34°469, 34°423, 34°409, 34°344, 34°314, 34°276, 34°243, 34°204.
25. Observed over wire R with the transit-micrometer set to readings 35°767, 35°820, 35°848, 35°886, 35°919, 35°938, 35°999, 36°021, 36°052, 36°087.
33. Observed over wire U with the transit-micrometer set to readings 36°086, 36°145, 36°210, 36°298, 36°618, 36°708, 36°770, 36°854, 37°112, 37°192.
36. Observed over wire U with the transit-micrometer set to readings 35°442, 35°416, 35°378, 35°320, 35°176, 35°130, 35°098, 35°064, 34°932, 34°886.
37. Observed over wire T with the transit-micrometer set to readings 34°950, 35°044, 35°200, 35°249, 35°298, 35°443, 35°557, 35°599.
41. Observed over wire T with the transit-micrometer set to readings 36°932, 36°839, 36°796, 36°712, 36°623, 36°572, 36°520, 36°470, 36°408, 36°322.

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 [Loss Rate].	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
Jan. 19	1	ε Andromedæ.....	JS	5'8	8'7	11'4	17'2	19'8	22'8	30'9	34'0	36'7	39'4	0. 34. 22'85	+ 5'78	22'68	31'70	-50'98	- 51'02	0. 33. 31'65
	2	μ Andromedæ.....	J	...	...	...	13'4	16'4	19'5	28'8	...	35'1	...	0. 52. 19'66	(- 7'19)	19'48	28'54	-50'94	- 50'94	
	3	ε Piscium.....	J	...	38'7	...	46'4	49'0	51'3	58'7	...	3'6	6'3	0. 58. 51'44	(- 3'52)	51'32	0'36	-50'96	- 50'96	
	4	β Andromedæ.....	SD	57'0	0'1	2'9	9'1	12'1	15'3	24'1	27'0	30'2	33'1	1. 5. 15'28		15'11	24'57	-50'54	- 50'54	
	5	Jupiter 1 L.....	JS	44'1	...	49'0	...	...	59'1	...	9'0	...	13'8	1. 24. 59'16		0'23		- 51'02	- 51'02	
	6	Jupiter 2 L.....	JS	46'5	...	51'2	...	...	1'6	...	11'2	...	16'2	1. 25. 1'53						
	7	Polaris.....	JS	54'3	1'6	8'2	13'9	18'3	25'6	31'6	37'1	42'5	48'3	1. 25. 46'09		53'12	2'05	-51'07	- 51'07	
	8	ν Piscium.....	JS	...	...	...	15'2	17'4	20'1	27'3	29'9	32'2	34'8	1. 37. 20'11		20'00	29'03	-50'97	- 50'97	
	9	ο Piscium.....	SD	57'9	0'6	3'0	8'1	10'5	13'1	20'4	23'0	25'4	27'9	1. 41. 13'15		13'02	22'47	-50'55	- 50'55	
	10	δ Ceti.....	JS	29'5	31'9	34'4	39'6	42'0	44'7	51'6	54'3	56'8	59'1	2. 31. 44'55		44'44	53'40	-51'04	- 51'02	
	11	σ Arietis.....	JS	50'9	53'1	55'7	1'1	3'5	6'3	13'6	16'3	18'9	21'3	2. 47. 6'23		6'08	15'06	-51'02	- 51'02	
	12	α Arietis.....	RC	22'0	24'7	27'1	32'8	35'1	37'9	45'5	48'2	51'0	53'5	2. 54. 37'94		37'78	47'10	-50'68	- 50'68	
	13	α Ceti.....	RC	54'9	57'5	59'7	5'0	7'2	9'7	17'0	19'6	22'1	24'5	2. 58. 9'87		9'75	19'02	-50'73	- 50'73	
	14	Groombridge 2283 S.P..	JS	29'6	35'1	39'9	44'2	49'2	54'1	0'3	5'0	11'2	16'8	3. 8. 14'27		10'05	18'95	-51'10	- 51'02	
	15	γ ¹ Arietis.....	JS	20'1	22'9	25'4	31'0	33'3	36'2	43'8	46'5	49'1	51'7	3. 16. 36'16		36'00	44'96	-51'04	- 51'04	
	16	ι ¹ Tauri.....	WS	40'8	43'4	46'1	51'7	54'3	57'1	5'1	7'7	10'6	13'3	3. 35. 57'18		57'01	6'43	-50'58	- 50'50	
	17	δ Eridani.....	JS	18'2	20'7	23'2	28'3	30'7	33'3	40'8	43'2	45'7	48'3	3. 39. 33'40		33'35	42'22	-51'13	- 51'02	
	18	η Tauri.....	WS	25'1	27'6	30'5	36'0	38'7	41'2	49'3	52'1	54'8	57'6	3. 42. 41'46		41'30	50'82	-50'48	- 50'50	
	19	ν Geminorum.....	JS	56'0	58'6	1'2	6'7	9'1	11'6	19'2	22'1	24'8	27'3	6. 24. 11'82		11'67	20'52	-51'15	- 51'02	
	20	γ Geminorum.....	JS	50'4	53'0	55'2	0'8	3'1	5'9	13'2	...	...	21'1	6. 33. 5'88		5'73	14'62	-51'11	- 51'11	
	21	δ ¹ I L.....	JS	...	51'7	54'5	0'1	2'6	5'6	13'2	16'0	19'0	...	6. 48. 5'50		5'35				
Jan. 21	22	Venus 1 L.....	RC	34'6	37'0	39'2	44'7	46'9	49'4	56'8	59'2	1'7	4'3	23. 10. 49'54		49'47		- 50'81	- 50'81	23. 9. 59'12
	23	ε Andromedæ.....	SD	5'9	8'6	11'3	17'1	19'8	22'9	31'0	33'8	36'8	39'7	0. 34. 22'87		22'70	31'67	-51'03	- 51'05	
	24	β Ceti.....	SD	23'7	26'6	29'0	34'7	36'8	39'6	47'1	49'7	52'3	55'0	0. 39. 39'61		39'62	48'53	-51'09	- 51'09	
	25	Jupiter 1 L.....	RC	34'7	...	39'3	...	...	49'6	...	...	...	4'7	1. 25. 49'71		50'86				
	26	Jupiter 2 L.....	RC	37'1	...	42'1	...	...	52'2	...	...	...	6'9	1. 25. 52'24						
Jan. 24	27	α Andromedæ.....	SD	3'0	5'8	8'7	14'3	17'0	20'2	...	...	...	...	0. 4. 20'05	+ 5'86	19'81	27'97	-51'84	- 51'84	
	28	γ Pegasi.....	SD	56'7	59'2	1'6	7'0	9'4	12'1	19'4	22'1	24'7	27'2	0. 9. 12'10	(- 8'08)	11'88	19'97	-51'91	- 51'91	
	29	ε Andromedæ.....	SD	6'8	9'3	12'2	18'1	20'7	23'5	31'9	34'8	37'6	40'5	0. 34. 23'72	(- 4'26)	23'48	31'63	-51'85	- 51'85	
	30	ο Piscium.....	J	37'5	40'2	42'7	47'7	50'1	52'8	0'0	2'6	5'1	7'3	0. 58. 52'76		52'56	0'29	-52'27	- 52'21	
	31	β Andromedæ.....	SD	...	...	...	13'2	16'6	25'3	28'4	31'3	34'5	...	1. 5. 16'55		16'31	24'48	-51'83	- 51'84	
	32	Polaris.....	SD	36'8	41'3	45'4	0'0	3'9	8'1	19'1	24'6	35'1	39'7	1. 25. 42'02		48'47	56'44	-52'03	- 52'03	
	33	Jupiter 1 L.....	SD	55'9	...	0'8	...	...	11'0	...	20'7	...	25'7	1. 27. 10'98		12'09				
	34	Jupiter 2 L.....	SD	58'6	...	3'3	...	...	13'6	...	23'3	...	28'3	1. 27. 13'60						
	35	ν Piscium.....	SD	5'9	8'5	10'9	16'1	18'6	21'0	28'2	30'7	33'1	35'6	1. 37. 21'01		20'82	28'96	-51'86	- 51'86	
	36	α Arietis.....	SD	23'1	25'7	28'4	33'9	36'2	39'1	...	...	52'2	...	2. 54. 39'13		38'90	47'03	-51'87	- 51'87	
	37	Groombridge 2283 S.P..	SD	53'8	59'9	5'1	10'4	14'8	19'3	26'3	32'7	38'7	44'2	3. 8. 17'53		13'48	21'52	-51'96	- 51'96	
	38	γ ¹ Arietis.....	D	21'2	23'9	26'6	32'0	34'6	37'3	44'9	47'5	50'3	52'9	3. 16. 37'28		37'05	44'90	-52'15	- 52'12	
	39	ο Tauri.....	D	19'5	22'1	24'7	29'6	32'0	34'8	42'0	44'7	46'9	49'3	3. 20. 34'72		34'51	42'35	-52'16	- 52'16	
	40	f Tauri.....	SD	14'8	17'3	19'9	25'1	27'5	30'1	37'3	40'0	42'6	45'1	3. 26. 20'13		29'92	38'03	-51'89	- 51'84	
	41	η Tauri.....	J	26'9	29'4	32'1	37'9	40'5	43'2	51'0	53'9	56'7	59'2	3. 42. 43'25		43'02	50'76	-52'26	- 52'21	
	42	γ ¹ Eridani.....	J	13'1	15'6	18'2	23'5	25'9	28'6	35'9	38'6	40'9	43'6	3. 54. 28'55		28'45	36'25	-52'20	- 52'20	
Jan. 25	43	ε Andromedæ.....	SD	7'0	9'6	12'6	18'3	21'1	24'1	32'3	35'0	37'8	40'7	0. 34. 24'03	(- 3'05)	23'81	31'61	-52'20	- 52'18	0. 33. 31'62
	44	β Ceti.....	SD	...	...	...	35'6	38'0	40'7	48'2	50'9	53'4	56'1	0. 39. 40'71		40'72	48'48	-52'24	- 52'24	
	45	α Arietis.....	JS	25'5	28'4	31'0	36'6	39'1	41'9	49'6	52'4	55'0	57'6	2. 2. 41'88		41'68	49'03	-52'65	- 52'67	
	46	δ Ceti.....	JS	35'5	38'0	40'4	44'5	48'0	50'7	57'7	0'5	3'0	5'4	2. 8. 50'63		50'48	57'76	-52'72	- 52'72	
	47	δ Ceti.....	CD	14'3	16'8	19'2	24'2	26'8	29'2	36'5	38'9	41'3	43'9	2. 35. 29'26		29'15	36'79	-52'36	- 52'37	
	48	γ ² Ceti.....	CD	0'3	2'8	5'2	10'5	12'7	15'2	22'6	24'9	27'3	29'9	2. 39. 15'29		15'16	22'72	-52'44	- 52'44	
	49	α Arietis.....	J	23'6	26'4	29'0	34'7	37'1	39'7	47'2	50'1	52'9	55'3	2. 54. 39'76		39'56	47'01	-52'55	- 52'52	
	50	Groombridge 2283 S.P..	J	13'2	18'7	23'2	27'7	32'1	36'7	41'1	45'9	50'8	55'6	3. 8. 16'49		13'69	22'07	-51'62	- 51'62	

Corrections for passage of Semidiameter, Nos. 21, and 22, +70^s.39, +0^s.69.

- 6, 26. A correction of +0^s.03 for defect of illumination has been applied in forming the concluded transit.
 7. Observed over wire X with the transit-micrometer set to readings 34^s.845, 34^s.902, 34^s.951, 35^s.001, 35^s.048, 35^s.086, 35^s.136, 35^s.199, 35^s.242, 35^s.275.
 14. Observed over wire R with the transit-micrometer set to readings 36^s.335, 36^s.234, 36^s.147, 36^s.050, 35^s.963, 35^s.903, 35^s.822, 35^s.711, 35^s.613, 35^s.478.
 January 20^d 22^d. New pricker on clock circuit of Chronograph. Distance of prickers 0^s.90.
 January 23^d 3^d. Distance of prickers of Chronograph altered to 1^s.02.
 32. Observed over wire T with the transit-micrometer set to readings 35^s.037, 35^s.071, 35^s.122, 35^s.240, 35^s.282, 35^s.320, 35^s.424, 35^s.455, 35^s.542, 45^s.590.
 34. A correction of +0^s.02 for defect of illumination has been applied in forming the concluded transit.
 37. Observed over wire U with the transit-micrometer set to readings 35^s.129, 35^s.037, 34^s.956, 34^s.847, 34^s.800, 34^s.716, 34^s.605, 34^s.499, 34^s.390, 34^s.262.
 50. Observed over wire V with the transit-micrometer set to readings 35^s.804, 35^s.722, 35^s.652, 35^s.561, 35^s.490, 35^s.420, 35^s.347, 35^s.258, 35^s.173, 35^s.079.

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 of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Collimation. (Level).	[Azimuth].					
1907	Jan. 28	1 Rigel.....	J	37.6	40.3	42.8	47.8	50.3	52.8	59.8	2.7	5.0	7.5	5.10.52.82	+ 5.86	52.76	59.15	-53.61	- 53.53	5. 9. 59.16	
		2 β Tauri.....	SD	54.6	57.3	0.0	6.0	8.7	11.6	19.7	22.7	25.5	28.4	5.21.11.63	(- 7.99)	11.43	18.21	-53.22	- 53.17	.....	
		3 δ Orionis.....	SD	48.4	51.0	53.3	58.5	0.8	3.5	10.6	13.0	15.5	18.0	5.28.3.41	(- 3.02)	3.31	10.06	-53.25	.....	.....	
		4 ν Orionis.....	J	48.3	50.7	53.2	...	...	3.8	11.1	13.5	16.2	19.0	6.3.3.70		3.53	9.93	-53.60	- 53.53	6. 2. 9.92	
		5 δ Ursæ Minoris S.P.....	J	10.5	16.8	20.7	26.0	30.3	33.6	37.4	41.0	47.2	50.4	6.3.32.81		30.63	37.72	-52.91		18. 2. 37.02	
		6 Cephei 51.....	J	45.6	51.9	58.0	4.5	13.2	19.2	24.4	30.6	36.8	42.5	6.57.26.48		28.03	34.29	-53.74		6.56.34.41	
		7 51 Geminorum.....	J	34.4	36.9	...	45.0	47.2	49.8	57.5	0.2	...	...	7.8.49.99		49.82	56.22	-53.60		7. 7. 56.19	
		8 λ Ursæ Minoris S.P.....	J	54.2	59.3	4.7	9.6	14.5	18.9	23.3	28.3	32.7	40.3	7.16.47.45		41.27	47.97	-53.30		19. 15. 47.64	
		9 Procyon.....	J	...	...	4.6	9.6	12.3	14.7	21.9	24.5	...	...	7.35.14.76		14.63	21.04	-53.59		7.34.21.00	
		10 6 Cancri.....	J	19.2	22.0	24.7	30.5	33.2	36.3	44.4	47.1	50.0	52.9	7.58.36.21		36.02	42.40	-53.62		7.57.42.38	
		11 Groombridge 1119.....	J	3.3	10.2	14.4	18.5	25.2	29.3	33.7	40.8	45.2	49.8	8.5.8.17		12.94	17.96	-54.98		8. 4. 19.30	
		12 α ¹ Cancri.....	J	34.9	37.3	40.0	45.3	47.9	50.7	58.4	0.8	3.3	5.9	8.18.50.61		50.43	56.76	-53.67		8.17.56.79	
		13 γ ¹ Leonis.....	J	23.0	25.7	...	33.7	36.3	39.1	...	...	...	54.7	10.15.39.04		38.86	45.22	-53.64		10. 14. 45.19	
		14 μ Hydræ.....	J	9.0	11.5	14.0	19.3	21.9	24.7	32.2	34.7	37.2	39.9	10.22.24.60		24.61	31.04	-53.57		10. 21. 30.94	
		15 ρ Leonis.....	J	28.1	30.7	33.2	38.4	40.8	...	50.7	...	55.7	58.3	10.28.43.40		43.25	49.62	-53.63		10. 27. 49.58	
		16 f Boötis.....	B	39.7	42.3	44.9	50.3	52.8	55.5	3.2	5.9	8.5	11.1	14.22.55.58		55.40	2.05	-53.35	- 53.21	14. 22. 2.00	
		17 ξ ² Libræ.....	B	14.9	17.2	19.7	25.0	27.2	29.7	37.2	39.8	42.4	45.0	14.52.29.97		29.94	36.57	-53.37		14. 51. 36.53	
		18 Groombridge 2283.....	B	19.7	25.1	31.3	38.0	55.0	0.4	5.5	16.6	22.8	28.4	15.8.14.73		16.61	23.80	-52.81		15. 7. 23.20	
		19 α ² Libræ.....	B	21.4	24.0	26.4	31.8	34.3	37.0	44.3	47.0	49.3	52.0	15.18.36.91		36.90	43.49	-53.41		15. 17. 43.49	
		20 ξ ¹ Libræ.....	B	31.3	33.8	36.4	41.9	44.3	46.9	54.5	57.1	59.6	2.1	15.23.46.95		46.96	53.52	-53.44		15. 22. 53.55	
		21 δ 2 L.....	B	45.5	48.0	50.6	56.1	58.6	1.3	9.0	11.7	14.3	16.9	15.38.1.36		1.35				15. 35. 59.99	
		22 γ Serpentis.....	B	41.2	43.7	46.3	51.7	54.2	56.9	4.3	7.0	9.3	11.9	15.52.56.81		56.64	3.24	-53.40		15. 52. 3.22	
		23 β ¹ Scorpii.....	B	31.7	34.2	36.8	42.3	44.7	47.6	55.0	57.9	0.5	3.0	16.0.47.53		47.55	54.14	-53.41		15. 59. 54.13	
		24 δ Ophiuchi.....	B	59.9	2.4	4.8	9.8	12.2	14.8	21.9	24.5	27.0	29.4	16.10.14.82		14.74	21.35	-53.39		16. 9. 21.31	
		25 α Aquilæ.....	JS	46.5	49.0	51.3	56.7	58.9	1.5	8.7	11.5	13.8	16.4	19.47.1.59		1.45	7.61	-53.84	- 53.57	.....	
Jan. 29	26 ⊙ 1 L.....	JS	1.7	4.5	7.0	12.3	15.0	17.7	25.2	27.7	30.3	33.0	20.45.17.60	} 26.11						20. 45. 32.26	
	27 ⊙ 2 L.....	JS	18.7	21.3	24.0	29.4	31.7	34.7	42.2	44.9	47.3	50.0	20.47.34.58								
Jan. 31	28 ⊙ 1 L.....	RC	15.0	17.5	...	25.7	28.7	31.0	38.6	...	43.7	46.2	20.53.30.95	+ 5.38 (- 8.81)	} 39.38				- 53.77	20. 53. 45.37	
	29 ⊙ 2 L.....	RC	...	...	...	42.8	45.2	47.7	...	...	...	...	20.55.47.86	(- 2.78)					- 54.05		
	30 f Tauri.....	RC	17.0	19.5	21.9	27.2	29.6	32.4	39.5	42.2	44.6	47.2	3.26.32.27			32.05	37.93	-54.12			
	31 γ Geminorum.....	RC	53.4	56.0	58.4	3.9	6.2	9.0	16.3	19.0	21.5	24.1	6.33.8.94			8.70	14.60	-54.10			
Feb. 1	32 ⊙ 1 L.....	E	21.1	23.5	26.3	31.4	34.0	36.5	44.4	47.0	49.3	52.2	20.57.36.73	(- 9.48) (- 2.53)	} 44.96				- 54.08	20. 57. 50.64	
	33 ⊙ 2 L.....	E	37.5	40.0	42.7	48.2	50.5	53.2	0.9	3.4	5.9	8.5	20.59.53.24								
	34 Venus 1 L.....	E	7.9	10.4	12.8	17.9	20.4	22.9	30.0	32.6	35.2	37.6	23.54.22.92			22.76				23. 53. 29.15	
	35 α Andromedæ.....	E	5.8	8.3	11.0	17.0	19.6	22.7	30.7	33.6	36.4	39.1	0.4.22.60			22.27	27.87	-54.40	- 54.36	.....	
	36 6 Cancri.....	E	20.0	23.0	25.7	31.3	34.3	37.2	45.3	48.2	50.9	53.9	7.58.37.16			36.84	42.42	-54.42			
	37 Groombridge 1119.....	E	18.3	22.8	29.0	37.3	41.9	48.4	5.7	9.8	16.4	...	8.5.14.58			12.43	18.01	-54.42			
	38 72 Ophiuchi.....	SD	29.3	31.8	34.3	39.5	41.8	44.5	51.7	54.3	56.8	59.3	18.3.44.49	(- 9.11)		44.23	49.72	-54.51	- 54.27	18. 2. 49.78	
	39 δ Ursæ Minoris.....	SD	16.0	22.3	26.7	40.4	48.2	52.7	7.6	12.3	20.5	34.8	18.3.33.38	(- 3.52)		33.34	38.53	-54.81	- 54.24	18. 2. 38.89	
	40 α Lyræ.....	SD	17.6	20.8	23.8	30.4	33.5	36.8	46.0	49.2	52.3	55.5	18.34.36.78			36.41	41.96	-54.45		18. 33. 41.95	
	41 β ¹ Lyræ.....	SD	10.0	13.0	15.8	21.9	24.7	27.9	36.4	39.3	42.3	45.3	18.47.27.84			27.49	33.06	-54.43		18. 46. 33.03	
	42 ξ Aquilæ.....	SD	...	...	...	51.2	53.6	56.3	3.5	6.3	8.7	11.2	19.1.56.25			55.98	1.43	-54.55		19. 1. 1.52	
	43 α Aquilæ.....	SD	47.4	49.8	52.4	57.5	59.7	2.4	9.5	12.3	14.7	17.3	19.47.2.46			2.21	7.67	-54.54		19. 46. 7.74	
Feb. 2	44 ⊙ 2 L.....	SD	...	44.9	47.3	52.8	55.2	58.0	5.5	8.3	10.7	...	21.3.58.00		57.91					21. 1. 55.28	
	45 Venus 1 L.....	SD	57.9	0.4	2.8	8.0	10.4	13.0	20.2	22.7	25.2	27.7	23.58.12.98			12.78				23. 57. 19.03	
	46 α Andromedæ.....	SD	5.8	...	...	...	...	...	36.4	39.3	56.3	13.2	0.4.22.72			22.39	27.86	-54.53	- 54.51	0. 3. 27.88	
	47 β Andromedæ.....	SD	0.8	3.9	6.9	13.3	16.0	19.2	28.0	31.1	34.3	37.0	1.5.19.24			18.89	24.32	-54.57		1. 4. 24.37	
	48 Polaris.....	SD	7.8	11.5	15.6	27.1	32.2	35.7	48.8	53.1	58.0	9.0	1.25.41.54			42.42	47.58	-54.84		1. 24. 47.90	
	49 η Piscium.....	SD	...	...	...	13.4	15.7	18.4	25.8	28.3	31.0	33.5	1.27.18.43			18.15	23.57	-54.58		1. 26. 23.63	

Corrections for passage of Semidiameter, Nos. 21, 34, 44, and 45, - 67^s.95 : + 0^s.75 : - 68^s.15 : and + 0^s.76.

5. Observed over wire O with the transit-micrometer set to readings 32^r.163, 32^r.001, 31^r.917, 31^r.763, 31^r.642, 31^r.574, 31^r.461, 31^r.398, 31^r.241, 31^r.180.
6. Observed over wire X with the transit-micrometer set to readings 36^r.010, 36^r.120, 36^r.289, 36^r.373, 36^r.549, 36^r.667, 36^r.783, 36^r.898, 37^r.039, 37^r.113.
8. Observed over wire T with the transit-micrometer set to readings 35^r.549, 35^r.508, 35^r.484, 35^r.438, 35^r.409, 35^r.387, 35^r.355, 35^r.301, 35^r.279, 35^r.227.
11. Observed over wire W with the transit-micrometer set to readings 35^r.701, 35^r.754, 35^r.787, 35^r.819, 35^r.863, 35^r.908, 35^r.927, 35^r.993, 36^r.047, 36^r.052.
18. Observed over wire T with the transit-micrometer set to readings 36^r.710, 36^r.804, 36^r.897, 37^r.017, 37^r.104, 37^r.389, 37^r.471, 37^r.668, 37^r.771, 37^r.854.
21. Correction to R.A. on true meridian + 0^s.01. Unsteady.
37. Observed over wire T with the transit-micrometer set to readings 34^r.260, 34^r.289, 34^r.341, 35^r.767, 35^r.805, 35^r.858, 35^r.987, 36^r.024, 36^r.069. Cloudy.
39. Observed over wire W with the transit-micrometer set to readings 34^r.598, 34^r.730, 34^r.852, 35^r.150, 35^r.350, 35^r.477, 35^r.833, 35^r.917, 36^r.340, 36^r.471.
44. Very cloudy.
45. Unsteady and ill-defined.
46. Very cloudy, diffused ; observed over wires O, W, X, Y and Z.
48. Observed over wire T with the transit-micrometer set to readings 34^r.823, 34^r.843, 34^r.878, 34^r.960, 35^r.010, 35^r.040, 35^r.150, 35^r.186, 35^r.240, 35^r.330.

MONTH 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 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.	
				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	
1917	Feb. 2	1	σ Arietis.....	SD	54.3	56.8	59.3	4.7	7.0	9.7	17.0	19.6	22.3	24.8	2. 47. 9.71	+ 5.38	9.43	14.86	-54.57	- 54.51	2. 46. 14.89
		2	δ Arietis.....	SD	51.0	53.6	56.3	1.6	4.1	6.9	14.4	17.0	19.7	22.3	3. 7. 6.85	(- 9.11)	6.56	11.95	-54.61	[- 0.24]	3. 6. 12.02
		3	ι Tauri.....	SD	44.5	47.3	50.0	55.6	58.3	1.0	9.0	11.7	14.5	17.2	3. 36. 1.08	(- 3.52)	0.76	6.22	-54.54		3. 35. 6.21
		4	κ Orionis.....	SD	...	58.2	0.4	5.8	8.0	10.7	17.8	20.3	23.0	...	5.44. 10.68		10.54	15.98	-54.56		5.43. 15.97
		5	δ Ursæ Minoris S.P.....	SD	35.7	41.0	44.3	48.3	51.8	55.7	59.3	2.8	6.7	10.7	6. 3. 34.92		33.84	38.64	-55.20		18. 2. 39.27
		6	γ Geminorum.....	SD	...	...	...	...	...	...	58.5	1.0	3.7	6.5	7. 8. 51.09		50.80	56.21	-54.59		7. 7. 56.22
		7	λ Ursæ Minoris S.P.....	SD	53.2	0.5	6.6	9.6	13.0	16.0	19.8	24.3	27.8	31.9	7. 16. 45.35		43.07	49.27	-53.80		19. 15. 48.49
		8	ϵ Cancri.....	SD	20.3	23.0	25.8	31.6	34.2	37.3	45.3	48.3	51.0	53.8	7. 58. 37.24		36.91	42.42	-54.49		7. 57. 42.32
		9	Groombridge 1119.....	SD	57.7	2.4	6.6	17.4	22.9	27.3	39.8	44.8	58.7	4.8	8. 5. 12.10		13.13	18.00	-55.13		8. 4. 18.54
		10	Groombridge 3548 S.P.....	SD	4.6	9.3	13.9	19.0	34.8	38.6	43.7	54.5	58.9	13.7	9. 19. 18.51		17.43	22.74	-54.69		21. 18. 22.83
		11	α Leonis.....	SD	45.6	48.1	50.7	55.7	58.2	0.9	8.2	10.7	13.2	15.7	9. 37. 0.86		0.61	6.11	-54.50		9. 36. 6.00
		12	β Leonis.....	SD	56.7	59.0	1.4	6.7	9.0	11.7	19.0	21.6	24.1	26.8	10. 45. 11.76		11.51	16.93	-54.58		10. 44. 16.89
		13	δ Leonis.....	SD	43.1	45.9	48.5	54.0	56.6	59.3	7.0	9.6	12.3	14.9	11. 9. 59.28		58.97	4.38	-54.59		11. 9. 4.35
		14	ϵ Crateris.....	SD	15.7	18.3	20.8	26.1	28.8	31.3	38.8	41.4	43.9	46.5	11. 15. 31.32		31.21	36.63	-54.58		11. 14. 36.59
		15	τ Leonis.....	SD	...	...	48.7	54.0	56.3	59.0	6.2	8.8	...	...	11. 23. 58.96		58.74	4.10	-54.64		11. 23. 4.12
		16	ν Leonis.....	SD	45.8	48.3	50.8	56.0	58.4	0.9	8.0	10.5	13.0	15.4	11. 33. 0.86		0.66	6.06	-54.60		11. 32. 6.03
		17	α Aquilæ.....	W	...	...	...	...	...	2.9	10.1	12.5	15.0	17.6	19. 47. 2.82	(- 8.76)	2.57	7.68	-54.89	- 54.65	
															(- 3.84)				[- 0.25]	.....	
Feb. 3	18	$\odot$ 1 L.....	W	30.2	32.7	35.1	40.5	43.1	45.7	53.3	55.9	58.4	1.2 21. 5.45.77							21. 5. 58.75	
	19	$\odot$ 2 L.....	W	46.0	48.5	51.2	56.5	58.9	1.7	9.3	11.7	14.3	17.0	21. 8. 1.67							
	20	Venus 1 L.....	W	47.0	49.5	52.0	57.0	59.3	2.0	9.1	11.7	14.3	16.7	0. 2. 2.01		1.80		- 54.90		0. 1. 7.66	
	21	β Andromedæ.....	W	...	...	...	13.5	16.4	19.5	28.3	31.2	34.3	37.3	1. 5. 19.50		19.17	24.30	-54.87		.....	
	22	Polaris.....	W	39.5	43.3	46.0	48.9	0.5	3.2	6.4	8.8	18.3	21.6	1. 25. 39.02		41.40	46.52	-54.88		.....	
	23	Jupiter 1 L.....	W	...	...	...	14.0	16.4	18.9	...	28.9	...	...	1. 32. 18.99							
	24	Jupiter 2 L.....	W	...	...	...	...	...	31.3	33.7	36.0	51.1	6.5	1. 32. 21.46							
	25	α Piscium.....	W	...	...	...	...	...	...	27.2	29.7	32.2	2.4	1.41. 17.45		17.20	22.26	-54.94		.....	
Feb. 5	26	$\odot$ 1 L.....	WS	35.7	38.2	40.6	46.2	48.5	51.2	58.6	1.5	4.0	6.6	21. 12. 51.27						.....	
	27	$\odot$ 2 L.....	WS	51.3	54.0	56.3	1.7	4.2	6.5	14.4	17.0	19.6	21.9	21. 15. 6.85						.....	
Feb. 6	28	Polaris.....	RC	37.4	43.4	49.0	58.9	3.5	7.6	17.0	20.9	26.6	34.8	1. 25. 40.55	+ 5.49	37.98	43.28	-54.70	- 55.66	.....	
	29	η Piscium.....	RC	4.0	6.6	9.0	14.4	16.8	19.5	27.0	29.5	32.1	34.6	1. 27. 19.51	(- 9.85)	19.24	23.52	-55.72	[- 0.26]	1. 26. 23.56	
	30	Jupiter 1 L.....	RC	46.7	...	51.4	...	...	1.7	...	11.4	...	16.4	1. 34. 1.67	(- 2.53)						
	31	Jupiter 2 L.....	RC	49.0	...	53.8	...	...	4.2	...	14.0	...	18.8	1. 34. 4.13		2.67				1. 33. 6.99	
	32	α Piscium.....	RC	3.0	5.5	...	13.2	15.4	18.1	25.3	...	30.5	33.0	1.41. 18.14		17.91	22.22	-55.69		1.40. 22.23	
	33	Castor.....	RC	12.3	15.1	18.0	24.3	26.8	29.9	38.3	41.2	44.1	47.0	7. 29. 29.88		29.52	33.75	-55.77		7. 28. 33.78	
	34	ϵ Cancri.....	RC	21.7	24.3	27.1	32.9	35.5	38.4	46.7	49.4	52.1	54.9	7. 58. 38.48		38.15	42.43	-55.72		7. 57. 42.40	
	35	Groombridge 1119.....	RC	16.3	22.4	27.2	38.0	42.8	47.7	58.7	3.0	7.8	20.3	8. 5. 18.28		15.48	17.44	-58.04		.....	
	36	η Cancri.....	RC	...	...	...	...	...	10.4	18.0	20.8	23.4	25.9	8. 28. 10.39		10.09	14.29	-55.80		8. 27. 14.34	
	37	Groombridge 3548 S.P.....	RC	31.9	38.3	42.7	53.3	58.5	3.7	15.5	19.3	23.5	34.7	9. 19. 18.45		18.63	22.45	-56.18		.....	
	38	α Hydræ.....	RC	37.4	39.9	42.3	47.5	49.7	52.4	59.7	2.3	4.7	7.1	9. 23. 52.46		52.35	56.56	-55.79		9. 22. 56.59	
	39	μ Hydræ.....	RC	11.4	13.9	16.5	21.7	24.2	27.0	34.4	37.0	39.5	42.1	10. 22. 26.93		26.88	31.17	-55.71		10. 21. 31.11	
	40	ρ Leonis.....	RC	30.7	33.0	35.4	40.9	43.1	45.7	53.0	55.5	58.0	0.5	10. 28. 45.74		45.50	49.77	-55.73		10. 27. 49.73	
Feb. 8	41	$\odot$ 1 L.....	SD	38.3	40.9	43.3	48.5	51.2	53.7	1.0	3.7	6.6	8.9	21. 25. 53.77	(- 8.90)				- 55.85	21. 26. 5.14	
	42	$\odot$ 2 L.....	SD	53.3	55.7	58.3	3.6	5.9	8.7	16.2	18.8	21.3	23.8	21. 28. 8.72	(- 2.86)				[- 0.24]		
	43	ϵ Canis Majoris.....	SD	33.8	36.6	39.4	45.3	48.0	50.8	59.0	1.8	4.8	7.6	6. 55. 50.89		50.98	54.85	-56.13	- 56.09	.....	
	44	Cephei 51.....	SD	46.4	55.2	59.8	3.7	6.7	10.1	13.9	17.2	21.2	24.8	6. 57. 28.71		28.62	32.49	-56.13		.....	
	45	γ Canis Majoris.....	SD	9.6	12.2	14.6	19.9	22.4	25.0	32.5	35.0	37.6	40.3	7. 0. 25.07		25.05	28.81	-56.24		.....	
	46	Castor.....	SD	12.5	15.4	18.3	24.3	27.1	30.1	38.7	41.6	44.5	47.4	7. 29. 30.17		29.86	33.75	-56.11		.....	
	47	Procyon.....	RC	2.4	4.9	7.3	12.5	14.8	17.3	24.7	27.2	29.4	32.0	7. 35. 17.41		17.22	21.03	-56.19	- 56.13	.....	
	48	Pollux.....	RC	11.1	13.9	16.7	22.4	25.1	28.1	36.2	39.0	41.8	44.6	7. 40. 28.07		27.79	31.56	-56.23		.....	

Correction for passage of Semidiameter No. 20, +0.76.

5. Observed over wire O with the transit-micrometer set to readings 35°890, 35°749, 35°667, 35°570, 35°498, 35°405, 35°310, 35°227, 35°153, 35°048.
7. Observed over wire S with the transit-micrometer set to readings 36°182, 36°127, 36°080, 36°063, 36°040, 36°012, 35°993, 35°963, 35°949, 35°910.
8, 11, 13, 14. Diffused.
9. Observed over wire V with the transit-micrometer set to readings 35°200, 35°277, 35°310, 35°400, 35°440, 35°466, 35°563, 35°617, 35°693, 35°755.
10. Observed over wire T with the transit-micrometer set to readings 35°940, 35°822, 35°721, 35°610, 35°503, 35°390, 34°990, 34°731, 34°633, 34°298.
22. Observed over wire X with the transit-micrometer set to readings 34°773, 34°814, 34°832, 34°864, 34°942, 34°962, 34°992, 35°008, 35°086, 35°110.
24. Observed over wires V, W, X, Y, and Z. A correction of +0.02 for defect of illumination has been applied in forming the concluded transit.
25. Very cloudy. Observed over wires V, W, X, and Z.
26, 27. Kept for diameter only. No determination of clock error having been made within twenty-four hours of the observation; limbs boiling.
28. Observed over wire R with the transit-micrometer set to readings 35°537, 35°612, 35°640, 35°726, 35°749, 35°798, 35°880, 35°909, 35°952, 36°017.
31. A correction of +0.02 for defect of illumination has been applied in forming the concluded transit.
35. Observed over wire S with the transit-micrometer set to readings 35°260, 35°330, 35°350, 34°437, 35°475, 35°512, 35°585, 35°630, 35°677, 35°768.
37. Observed over wire S with the transit-micrometer set to readings 36°353, 36°188, 36°101, 35°830, 35°725, 35°590, 35°310, 35°220, 35°091, 34°870.
40. Faint; cloudy.
41, 42. Limbs boiling.
44. Observed over wire T with the transit-micrometer set to readings 34°771, 34°919, 47, 48. Faint; foggy.

MONTH 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).	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at 0h Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation. h m s
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
1904																				
Feb. 17	1	β Cancri.....	RC	...	9'3	11'7	17'0	19'3	21'7	29'0	31'7	34'0	...	8. 12. 21'86	+ 5'38	21'65	23'09	-58'56	- 58'45	8. 11. 23'14
	2	δ i L.....	RC	55'3	57'9	0'3	5'9	8'3	11'2	18'8	21'4	24'1	26'7	8. 19. 11'15	(- 9'54)	10'90	23'09	-58'56	[- 0'18]	8. 19. 23'26
	3	π Leonis.....	SD	...	...	...	6'7	9'0	11'7	18'9	21'4	24'0	26'5	9. 56. 11'69	(- 2'17)	11'48	12'97	-58'51	- 58'37	.....
	4	ι Leonis.....	SD	0'7	3'1	5'6	10'8	13'2	15'7	23'0	25'7	28'2	30'7	10. 45. 15'83		15'61	17'15	-58'46	- 58'33	.....
	5	δ Leonis.....	S	24'0	26'7	29'0	34'2	36'5	39'1	46'3	48'9	51'3	53'8	10. 56. 39'13		38'95	40'57	-58'38	- 58'33	.....
	6	χ Leonis.....	S	51'8	54'2	56'7	2'0	4'3	6'8	14'2	16'7	19'2	21'7	11. 1. 6'92		6'71	8'28	-58'43	- 58'37	.....
	7	δ Leonis.....	SD	...	...	...	5'8	0'5	3'3	10'9	13'7	16'3	19'0	11. 10. 3'30		3'02	4'65	-58'37	- 58'37	.....
	8	τ Leonis.....	RC	48'2	50'5	53'0	58'2	0'6	3'0	10'3	12'7	15'2	17'7	11. 24. 3'09		2'92	4'36	-58'56	- 58'45	11. 23. 4'38
	9	ν Leonis.....	RC	50'0	52'5	54'9	0'0	2'3	5'0	12'0	14'7	17'0	19'5	11. 33. 4'94		4'79	6'33	-58'46	- 58'45	11'32. 6'25
Feb. 18	10	κ Cancri.....	SD	21'2	23'8	26'3	31'4	33'8	36'4	43'5	46'3	48'8	51'3	9. 3. 36'44	(- 3'05)	36'18	37'51	-58'67	- 58'52	.....
	11	δ i L.....	SD	48'4	50'8	53'3	58'8	1'3	4'0	11'5	14'3	17'0	19'4	9. 21. 4'04		3'77	4'66	-58'63	[- 0'24]	9. 21. 15'92
	12	δ Leonis.....	SD	47'7	50'3	52'8	58'3	0'8	3'6	11'3	14'0	16'5	19'2	11. 10. 3'61		3'29	4'66	-58'63	- 58'52	.....
	13	τ Leonis.....	SD	48'2	50'7	53'1	58'3	0'7	3'2	10'4	12'9	15'3	17'8	11. 24. 3'21		2'99	4'38	-58'61	- 58'52	.....
	14	Bradley 3147 S.P.....	SD	57'0	2'0	9'4	13'4	17'9	22'9	27'5	32'3	39'0	42'8	11. 28. 35'99		35'63	37'02	-58'61	- 58'52	.....
	15	ν Leonis.....	SD	50'2	52'7	55'1	0'2	2'7	5'2	12'3	14'8	17'3	19'7	11. 33. 5'17		4'97	6'35	-58'62	- 58'52	.....
Feb. 19	16	γ i Leonis.....	W	...	...	...	...	52'6	54'9	57'6	0'2	16'1	10. 15. 44'73	(- 8'35)	44'46	45'52	-58'94	- 58'82	.....	
	17	δ 2 L.....	W	...	...	...	...	56'3	59'0	1'6	4'2	19'6	35'3	10. 24. 48'92	(- 3'86)	48'69	49'59	-58'94	[- 0'28]	10. 22. 39'46
	18	γ Aquilæ.....	J	28'0	30'4	33'0	38'1	40'5	43'0	50'3	52'9	55'3	58'0	19. 42. 43'11		42'88	43'68	-59'20	- 59'09	19. 41. 43'59
	19	α Aquilæ.....	J	52'3	54'7	57'2	2'4	4'9	7'3	14'6	17'2	19'8	22'3	19. 47. 7'43		7'20	8'00	-59'20	[- 0'24]	19. 46. 7'91
Feb. 20	20	α Arietis.....	J	32'0	34'5	37'3	42'8	45'2	48'0	...	...	...	...	2. 2. 48'13	+ 5'82	47'93	48'61	-59'32	- 59'33	2. 1. 48'58
	21	Procyon.....	J	...	...	...	...	20'4	27'8	30'3	32'7	35'2	7. 35. 20'53	(- 7'30)	20'35	20'96	-59'39	- 59'33	7. 34. 20'94	
	22	Pollux.....	J	14'2	17'0	19'5	25'5	28'3	31'3	39'2	42'1	44'9	47'7	7. 40. 31'15	(- 4'66)	30'95	31'49	-59'46	- 59'33	7. 39. 31'54
	23	δ 2 L.....	J	59'9	2'5	5'0	10'2	12'7	15'3	22'7	25'3	28'1	30'6	11. 25. 15'38		15'21	16'09	-59'46	- 59'33	11. 23. 6'09
	24	Bradley 3147 S.P.....	J	3'7	10'4	15'3	32'9	39'5	44'4	2'2	6'7	12'3	29'2	11. 28. 40'22		36'09	36'63	-59'46	- 59'33	.....
	25	ν Leonis.....	J	51'0	53'5	56'0	1'0	3'3	5'9	13'2	15'7	18'2	20'7	11. 33. 6'00		5'84	6'38	-59'46	- 59'33	11. 32. 6'39
	26	β Leonis.....	J	57'9	0'7	3'3	8'7	11'2	13'8	21'2	23'8	26'3	29'0	11. 45. 13'75		13'55	14'05	-59'50	- 59'33	11. 44. 14'10
	27	β Virginis.....	J	30'8	33'1	35'7	40'8	43'0	45'8	53'0	55'3	57'8	0'3	11. 46. 45'71		45'54	46'05	-59'49	- 59'33	11. 45. 46'09
Feb. 21	28	β Andromedæ.....	E	5'3	8'3	11'3	17'4	20'4	23'3	32'4	35'2	38'3	41'3	1. 5. 23'51	(- 2'78)	23'35	24'03	-59'32	- 59'33	.....
	29	Venus i L.....	E	48'4	50'9	53'2	58'4	1'0	3'5	10'9	13'3	15'8	18'3	1. 7. 3'53		3'43	3'54	-59'31	[- 0'22]	1. 6. 5'02
	30	Polaris.....	E	41'3	47'2	53'0	10'1	14'2	26'8	29'8	41'0	45'1	48'8	1. 25. 23'42		28'85	29'54	-59'31	- 59'33	.....
	31	μ Eridani.....	E	30'0	32'3	34'7	39'9	42'3	44'8	51'9	54'5	57'0	59'4	4. 41. 44'83		44'78	45'43	-59'35	- 59'33	.....
	32	ι Aurigæ.....	E	30'7	33'5	36'3	42'6	45'3	48'6	57'0	0'0	2'8	5'9	4. 51. 48'45		48'30	48'92	-59'38	- 59'33	.....
	33	Castor.....	E	...	18'5	21'3	27'5	30'0	33'2	41'7	44'7	47'6	...	7. 29. 33'23		33'07	33'65	-59'42	- 59'33	.....
Feb. 22	34	α Andromedæ.....	SD	...	...	...	21'7	24'5	27'3	35'6	...	...	...	0. 4. 27'46	(- 3'49)	27'30	27'67	-59'63	- 59'63	.....
	35	Venus i L.....	SD	...	...	...	21'6	24'1	26'6	33'6	36'3	38'9	41'5	1. 10. 26'57		26'44	27'06	-59'63	[- 0'21]	1. 9. 27'74
	36	Polaris.....	SD	33'9	36'8	42'9	59'3	3'2	8'1	24'3	27'7	32'1	45'6	1. 25. 21'52		28'32	28'69	-59'63	- 59'63	.....
Feb. 25	37	γ i Eridani.....	SD	20'7	23'3	25'8	30'9	33'4	36'1	43'4	46'0	48'5	51'1	3. 54. 36'08	(- 7'96)	36'02	35'71	-60'31	- 60'19	3. 53. 35'80
	38	α i Tauri.....	SD	...	...	...	...	15'6	18'4	20'9	37'1	53'2	4. 0. 5'31	(- 3'75)	5'09	4'81	-60'28	- 60'17	3. 59. 4'86	
	39	γ Tauri.....	B	8'4	10'8	13'2	18'7	21'0	23'8	31'1	33'9	36'3	39'0	4. 15. 23'78		23'58	23'35	-60'23	- 60'17	.....
	40	ϵ Tauri.....	B	49'0	51'4	54'1	59'5	2'0	4'8	12'4	15'1	17'5	20'3	4. 24. 4'77		4'56	4'37	-60'19	- 60'17	.....
	41	Aldebaran.....	SD	13'2	15'6	18'3	23'6	26'3	28'8	36'3	38'9	41'5	44'3	4. 31. 28'84		28'64	28'41	-60'23	- 60'19	4. 30. 28'41
	42	ι Aurigæ.....	SD	31'4	34'3	37'2	43'3	46'2	49'2	57'7	0'7	3'6	6'7	4. 51. 49'21		48'98	48'84	-60'14	- 60'17	4. 50. 48'75
	43	α Orionis.....	SD	47'7	50'3	52'7	57'7	0'2	2'9	9'9	12'6	14'9	17'5	5. 51. 2'80		2'63	2'38	-60'25	- 60'17	5. 50. 2'39
	44	γ Geminorum.....	SD	5'7	8'3	11'0	16'6	19'2	21'9	29'6	32'5	35'2	37'7	5. 59. 21'93		21'72	21'50	-60'22	- 60'17	5. 58. 21'48
	45	δ Ursæ Minoris S.P.....	SD	51'5	2'5	11'2	17'3	21'5	25'1	29'0	32'3	37'1	40'9	6. 3. 48'00		45'29	45'32	-59'97	- 60'17	.....
	46	ν Geminorum.....	SD	...	...	9'7	15'3	17'8	20'7	28'3	31'1	...	...	6. 24. 20'62		20'41	20'21	-60'20	- 60'17	6. 23. 20'26
	47	δ Leonis.....	SD	51'6	53'9	56'4	1'6	4'1	6'8	13'9	16'5	18'9	21'4	9. 37. 6'67		6'49	6'24	-60'25	- 60'17	9. 36. 6'22
	48	δ Crateris.....	SD	21'9	24'5	26'8	32'3	34'6	37'3	44'7	47'4	49'8	52'4	11. 15. 37'33		37'27	36'97	-60'30	- 60'17	11. 14. 36'98

Corrections for passage of Semidiameter, Nos. 2, 11, 17, 23, 29, and 35, +70°37': +70°76': -70°28': -69°68': +0°93': and +0°94'.

- 7, 21, 22, 26, 27. Cloudy.
 14. Observed over wire V with the transit-micrometer set to readings 36°57, 36°534, 36°368, 36°245, 36°177, 36°066, 35°960, 35°860, 35°701, 35°609.
 16. Cloudy and very diffused. Observed over wires U, V, W, X, and Y.
 to R.A. on true meridian - 0°01.
 24. Observed over wire R with the transit-micrometer set to readings 35°722, 35°597, 35°440, 35°028,
 34°918, 34°753, 34°373, 34°267, 34°121, 33°732.
 30. Observed over wire T with the transit-micrometer set to readings 34°219, 34°275, 34°326, 34°479, 34°517, 34°611, 34°665, 34°733, 34°760, 34°800.
 35. Very cloudy and unsteady.
 36. Observed over wire S with the transit-micrometer set to readings 34°750, 34°765, 34°805, 34°960, 34°983, 35°022, 35°170, 35°193, 35°230, 35°339. Diffused and
 unsteady.
 45. Observed over wire X with the transit-micrometer set to readings 39°652, 39°395, 39°180, 39°053, 38°940, 38°858, 38°762, 38°685, 38°568, 38°480.
 48. 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 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.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
Mar. 2	1	⊙ 1 L.....	B	32.2	34.6	37.0	42.2	44.6	47.2	54.3	57.1	59.3	2.0	22. 50. 47.21	+ 5.78				- 61.31	22. 50. 50.95
	2	⊙ 2 L.....	B	43.0	45.1	47.8	52.9	55.1	57.8	5.2	7.8	10.2	12.7	22. 52. 57.92	(- 7.94)	52.47			- 61.31	
	3	Polaris.....	B	6.4	13.2	18.2	23.9	45.1	52.4	57.2	46.9	11.8	24.1	1. 25. 19.57	- 3.58	24.79	23.08	-61.71	- 61.53	1. 24. 23.25
	4	δ Ursæ Minoris S.P.....	B	5.0	7.5	5.9	3.1	16.9	21.3	26.1	29.6	43.6	47.6	6. 3. 51.22		48.67	46.88	-61.79		18. 2. 47.08
	5	η Geminorum.....	B	54.9	57.5	0.1	5.9	8.2	11.0	18.9	21.6	24.2	26.9	6. 10. 11.08		10.87	9.32	-61.55		6. 9. 9.28
	6	μ Geminorum.....	B	59.1	1.8	4.6	10.0	12.6	15.3	23.1	25.8	28.6	31.1	6. 18. 15.36		15.15	13.58	-61.57		6. 17. 13.56
	7	β Canis Majoris.....	B	17.6	20.2	22.7	28.2	30.6	33.3	40.8	43.4	46.2	48.7	6. 19. 33.33		33.30	31.66	-61.64		6. 18. 31.71
	8	Neptune 1 L.....	B	14.4	17.1	...	...	...	30.6	...	...	43.6	46.4	6. 22. 30.58						
	9	Neptune 2 L.....	B	...	...	20.0	25.4	27.9	...	38.7	41.3	...	...	6. 24. 30.83		30.62				6. 23. 29.03
	10	ξ Geminorum.....	B	44.7	47.1	49.8	55.1	57.2	0.1	7.5	10.0	12.5	14.9	6. 41. 0.05		59.86	58.29	-61.57		6. 39. 58.27
	11	Cephei 51.....	B	16.7	21.6	25.8	29.6	43.5	47.6	52.0	0.7	4.8	8.6	6. 57. 26.13		28.08	26.17	-61.91		6. 56. 26.49
	12	δ Geminorum.....	B	13.6	16.2	18.9	24.4	27.1	29.8	37.6	40.3	43.0	45.5	7. 15. 29.80		29.59	28.02	-61.57		7. 14. 27.99
	13	λ Ursæ Minoris S.P.....	B	50.8	56.1	1.1	6.5	11.8	29.4	33.8	37.6	42.8	4.6	7. 17. 17.47		10.10	8.61	-61.49		19. 16. 8.50
	14	Groombridge 1119.....	B	22.3	29.0	43.4	49.9	4.8	23.6	55.1	59.9	4.6	4.8	8. 5. 2.24		8.09	6.31	-61.78		8. 4. 6.49
	15	ε Hydræ.....	B	32.8	35.3	37.6	42.9	45.2	47.7	55.1	57.6	0.1	2.5	8. 42. 47.84		47.68	46.01	-61.67		8. 41. 46.07
	16	Groombridge 3548 S.P.....	B	2.7	10.2	17.1	21.1	25.4	29.4	34.6	38.1	42.3	47.2	9. 19. 28.12		25.54	23.52	-62.02		21. 18. 23.92
	17	ξ Leonis.....	B	37.5	39.9	42.4	47.6	50.1	52.8	0.1	2.6	5.0	7.9	9. 27. 52.75		52.56	50.91	-61.65		9. 26. 50.94
	18	o Leonis.....	J	53.1	55.5	58.1	3.2	5.9	8.3	15.8	18.2	20.9	23.0	9. 37. 8.36		8.18	6.24	-61.94	- 61.86	.....
	19	π Leonis.....	J	0.0	2.3	5.1	9.9	12.4	15.0	22.4	24.8	27.6	30.2	9. 56. 15.13		14.96	13.01	-61.95		.....
	20	ρ Leonis.....	B	36.8	39.1	41.3	46.8	49.1	51.7	59.0	1.6	4.3	6.5	10. 28. 51.78		51.60	49.99	-61.61	- 61.53	10. 27. 49.97
	21	δ Crateris.....	B	...	...	...	...	36.2	38.8	46.1	48.7	51.2	53.7	11. 15. 38.75		38.59	37.02	-61.57		11. 14. 36.96
	22	Bradley 3147 S.P.....	B	43.2	51.5	57.6	3.3	8.8	13.3	18.0	22.7	26.8	32.1	11. 28. 39.65		36.98	35.55	-61.43		23. 27. 35.35
	23	β Leonis.....	B	0.5	3.0	5.7	10.9	13.3	16.1	23.4	26.0	28.4	31.1	11. 45. 16.00		15.81	14.18	-61.63		11. 44. 14.17
	24	Bradley 1672.....	B	30.4	37.6	43.2	50.3	4.3	9.6	15.0	28.8	39.3	50.9	12. 15. 42.78		46.14	44.50	-61.64		12. 14. 44.50
	25	ζ Cygni.....	W	37.4	40.1	42.9	49.0	51.6	54.7	2.9	5.9	8.7	11.3	21. 9. 54.63	- 3.42	54.41	52.61	-61.80	- 61.56	21. 8. 52.64
Mar. 3	26	⊙ 2 L.....	W	27.5	29.8	32.4	37.4	39.8	42.2	49.5	52.1	54.6	57.2	22. 56. 42.41		42.32			- 61.80	22. 54. 35.28
	27	α Cancri.....	W	5.9	8.2	10.5	16.0	18.2	20.9	28.3	30.9	33.4	35.8	8. 54. 20.97		20.79	18.83	-61.96		8. 53. 18.90
	28	κ Cancri.....	W	24.4	26.8	29.3	34.5	36.9	39.5	46.9	49.3	51.9	54.5	9. 3. 39.56		39.39	37.47	-61.92		9. 2. 37.50
	29	Bradley 3147 S.P.....	W	10.9	15.5	19.5	23.3	26.9	30.4	34.2	38.0	41.7	45.9	11. 28. 39.35		36.81	35.44	-61.37		.....
	30	Bradley 1672.....	W	36.8	40.4	44.5	50.0	54.5	58.3	2.5	6.0	9.3	13.3	12. 15. 43.22		46.38	44.85	-61.53		.....
	31	35 Virginis.....	W	49.6	51.9	54.5	59.5	1.8	4.6	11.5	14.2	16.6	19.0	12. 44. 4.47		4.33	2.39	-61.94		12. 43. 2.40
	32	31 Comæ.....	W	...	...	...	...	4.8	7.6	15.7	18.8	21.3	24.3	12. 48. 7.68		7.47	5.48	-61.99		12. 47. 5.54
	33	δ Virginis.....	W	37.3	39.8	42.2	47.3	49.5	52.3	59.5	1.9	4.7	7.1	12. 51. 52.31		52.16	50.29	-61.87		12. 50. 50.23
	34	Spica.....	W	59.2	1.5	4.0	9.5	11.7	14.3	21.6	24.2	26.7	29.3	13. 21. 14.36		14.29	12.50	-61.79		13. 20. 12.36
	35	Polaris S.P.....	W	54.6	58.2	2.2	5.6	9.0	12.2	15.6	19.3	...	...	13. 25. 30.60		24.67	21.92	-62.75		.....
Mar. 7	36	ρ Argus.....	W	17.8	20.5	23.0	28.6	31.2	34.0	41.8	44.7	47.3	50.1	8. 4. 34.07	+ 5.63	34.12	31.15	-62.97	- 62.81	.....
	37	Groombridge 1119.....	W	42.2	46.0	50.2	54.2	12.4	17.0	20.9	24.7	37.2	41.1	8. 5. 5.55	(- 9.19)	5.42	2.47	-62.95		.....
	38	η Cancri.....	W	...	...	6.4	12.0	14.6	17.2	24.9	27.5	...	...	8. 28. 17.24	- 2.67	16.98	14.17	-62.81		.....
Mar. 9	39	β Tauri.....	E	4.2	6.9	9.5	15.5	18.0	21.0	29.2	32.2	34.8	37.6	5. 21. 21.07	- 3.24	20.77	17.54	-63.23	- 63.16	5. 20. 17.57
	40	δ Orionis.....	E	57.7	0.3	2.8	7.9	10.3	12.9	20.1	22.6	25.1	27.4	5. 28. 12.86		12.69	9.47	-63.22	(- 0.18)	5. 27. 9.49
	41	δ Ursæ Minoris S.P.....	E	4.3	10.9	16.2	23.8	29.5	35.2	40.8	45.5	50.0	54.1	6. 3. 53.44		52.36	49.53	-62.83		18. 2. 49.15
	42	η Geminorum.....	E	56.7	59.2	1.7	7.3	9.7	12.8	20.7	23.2	25.7	28.5	6. 10. 12.72		12.44	9.19	-63.25		6. 9. 9.23
	43	μ Geminorum.....	E	0.8	3.3	5.8	11.6	14.1	16.9	24.7	27.3	30.2	32.8	6. 18. 16.92		16.64	13.45	-63.19		6. 17. 13.43
	44	ν Geminorum.....	S	7.4	10.1	12.6	18.3	20.6	23.3	30.9	33.7	36.2	38.9	6. 24. 23.36		23.09	20.00	-63.09	- 63.05	.....
	45	γ Geminorum.....	S	1.7	4.4	6.9	12.5	14.9	17.4	25.0	27.6	30.2	32.7	6. 33. 17.49		17.23	14.14	-63.09		.....
	46	ξ Geminorum.....	S	46.2	48.7	51.2	56.5	58.8	1.5	9.0	11.4	14.1	16.5	6. 40. 1.55		1.30	58.17	-63.13		.....
	47	Cephei 51.....	E	0.3	9.8	16.3	37.5	44.3	51.0	16.9	23.8	29.4	49.2	6. 57. 26.32		26.40	23.39	-63.01	- 63.16	6. 56. 23.19
	48	51 Geminorum.....	E	43.7	46.3	48.8	54.2	56.7	59.2	6.7	9.2	11.9	14.7	7. 8. 59.30		59.04	55.85	-63.19		7. 7. 55.83

Correction for passage of Semidiameter, No. 26, -65".25.

3. Observed over wire T with the transit-micrometer set to readings 34".990, 35".030, 35".073, 35".117, 35".308, 35".365, 35".430, 35".842, 36".046, 36".142.
 4. Observed over wire O with the transit-micrometer set to readings 31".621, 31".501, 31".401, 31".310, 30".980, 30".879, 30".760, 30".679, 30".331, 30".245. 6, 10, 21. Cloudy.
 11. Observed over wire X with the transit-micrometer set to readings 35".435, 35".540, 35".619, 35".700, 35".970, 36".043, 36".144, 36".318, 36".387, 36".460.
 13. Observed over wire Q with the transit-micrometer set to readings 36".060, 36".000, 35".970, 35".940, 35".895, 35".754, 35".735, 35".710, 35".676, 35".650.
 14. Observed over wire O with the transit-micrometer set to readings 29".925, 29".971, 30".089, 30".135, 30".250, 30".400, 30".616, 30".664, 30".698, 30".773.
 16. Observed over wire O with the transit-micrometer set to readings 33".707, 33".540, 33".391, 33".275, 33".175, 33".060, 32".971, 32".889, 32".785, 32".659.
 22. Observed over wire X with the transit-micrometer set to readings 41".885, 41".686, 41".534, 41".397, 41".281, 41".180, 41".087, 40".975, 40".875, 40".750.
 24. Observed over wire O with the transit-micrometer set to readings 35".470, 35".550, 35".617, 35".672, 35".880, 35".945, 36".045, 36".180, 36".316, 36".500. 26. Observed through cloud.
 29. Observed over wire X with the transit-micrometer set to readings 45".301, 45".210, 45".128, 45".024, 44".965, 44".867, 44".772, 44".680, 44".629, 44".508.
 30. Observed over wire X with the transit-micrometer set to readings 41".642, 41".703, 41".744, 41".803, 41".870, 41".902, 41".947, 41".993, 42".053, 42".108.
 35. Observed over wire T with the transit-micrometer set to readings 37".443, 37".396, 37".370, 37".351, 37".303, 37".250, 37".236, 37".204.
 37. Observed over wire T with the transit-micrometer set to readings 37".251, 37".282, 37".312, 37".337, 37".490, 37".507, 37".556, 37".581, 37".660, 37".682.
 41. Observed over wire V with the transit-micrometer set to readings 35".740, 35".575, 35".432, 35".254, 35".120, 34".985, 34".844, 34".750, 34".644, 34".537.
 47. Observed over wire T with the transit-micrometer set to readings 35".072, 35".267, 35".427, 35".821, 35".954, 36".086, 36".589, 36".735, 36".855, 37".230.

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). [Altitude].	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.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
April 2	1	Polaris S.P.	SD	58.0	4.3	9.2	13.4	18.1	22.3	31.5	36.1	43.8	52.2	13. 23. 17.97	+ 5.63	19.54	9.42	49.88	51.60	.....
	2	Arcturus	SD	13.9	16.4	19.1	24.4	27.0	29.6	37.4	40.1	42.7	45.2	14. 10. 29.74	(- 9.50)	29.50	21.06	51.56	[- 0.26]	.....
	3	ξ ² Libræ	SD	31.6	34.2	36.6	41.9	44.3	46.9	54.0	56.7	59.2	2.1	14. 50. 46.91	[- 1.84]	46.88	38.24	51.36	.....	.....
	4	ψ Boötis	SD	15.9	18.4	21.2	27.0	29.6	32.7	40.6	43.4	46.2	49.0	14. 59. 32.57		32.29	23.80	51.51	.....	.....
April 5	5	34 Sextantis	JS	39.4	41.9	44.2	49.4	51.7	54.2	1.6	4.1	6.4	9.0	10. 36. 54.34	+ 5.45	54.19	44.48	50.29	50.42	.....
	6	δ Leonis.	JS	11.9	14.4	16.8	22.0	24.3	27.0	34.2	37.0	39.5	42.0	10. 43. 27.07	(- 9.61)	26.87	17.19	50.32	[- 0.21]	.....
	7	l Crateris.	JS	31.4	33.8	36.2	41.6	44.1	46.7	54.1	56.8	59.2	1.9	11. 13. 46.74	[- 1.73]	46.73	37.03	50.30	.....	.....
	8	Bradley 3147 S.P.	JS	32.7	40.8	45.6	52.5	59.8	6.3	13.8	18.7	23.3	28.2	11. 26. 45.57		46.24	37.01	50.77	.....	.....
	9	π Virginis.	JS	56.4	59.1	1.5	6.6	8.9	11.6	18.8	21.3	23.7	26.3	11. 55. 11.58		11.41	1.77	50.36	.....	.....
	10	ο Virginis.	J	18.4	20.9	23.2	28.5	30.9	33.6	40.8	43.4	45.9	48.3	11. 59. 33.55		33.36	23.71	50.35	50.46	.....
	11	Bradley 1672	JS	41.0	48.1	52.9	57.7	4.0	8.3	13.5	20.4	26.7	31.1	12. 13. 58.55		55.93	47.15	51.22	50.42	.....
April 6	12	⊙ i L.	E	51.0	53.4	55.9	1.0	3.1	6.1	13.3	15.8	18.1	20.8	0. 57. 6.01	(- 8.72)	5.84			50.65	0. 59. 1.02
	13	Polaris	E	53.1	59.0	4.9	25.5	30.5	43.7	51.7	57.3	13.8	18.2	1. 23. 17.46	[- 2.63]	17.83	9.05	51.22	.....	.....
	14	Venus i L.	E	10.2	12.7	15.6	21.1	23.6	26.2	34.1	36.8	39.4	42.2	2. 39. 26.36		26.11				2. 40. 18.57
	15	Aldebaran.	E	21.7	24.2	26.8	32.1	34.4	37.3	44.9	47.4	49.9	52.3	4. 29. 37.26		37.04	27.72	50.68	.....	4. 30. 27.65
	16	α Orionis	S	56.1	58.6	0.9	6.3	8.4	11.3	18.3	21.0	23.5	26.0	5. 49. 11.20		11.03	1.67	50.64	50.68	.....
	17	i Geminorum	S	14.1	16.7	19.4	25.0	27.4	30.4	38.1	41.0	43.6	46.2	5. 58. 30.36		30.11	20.73	50.62	.....	.....
	18	λ Ursæ Minoris S.P.	E	14.8	24.5	30.0	50.1	55.4	10.0	15.1	20.8	39.4	44.9	6. 16. 0.05		58.52	48.50	49.98	50.65	.....
	19	6 Cancri.	E	34.4	37.2	39.9	45.8	48.4	51.3	59.4	2.2	5.1	7.8	7. 56. 51.33		51.06	41.69	50.63	.....	7. 57. 41.64
	20	Groombridge 1119.	E	29.7	33.9	40.1	46.1	51.1	57.6	3.2	10.9	18.5	24.6	8. 2. 41.77		42.23	33.16	50.93	.....	.....
	21	β Cancri.	E	17.0	19.3	22.0	27.0	29.4	32.2	39.4	42.0	44.3	47.0	8. 10. 32.12		31.94	22.49	50.55	.....	8. 11. 22.52
	22	γ Cancri.	E	7.2	9.9	12.4	18.2	20.6	23.3	31.0	33.7	36.2	39.0	8. 26. 23.31		23.07	13.73	50.66	.....	8. 27. 13.65
	23	κ Cancri.	SD	31.5	33.9	36.3	41.6	44.0	46.8	53.9	56.4	59.0	1.6	9. 1. 46.66		46.47	37.09	50.62	50.72	.....
	24	Groombridge 3548 S.P.	E	22.5	27.9	35.0	39.7	44.2	48.4	52.7	57.7	4.6	9.8	9. 17. 41.30		40.48	31.65	51.17	50.65	.....
	25	ε Leonis.	R.	20.9	23.6	26.2	31.9	34.6	37.3	45.2	47.9	50.4	53.2	9. 39. 37.28		38.18	28.70	50.52	.....	9. 40. 28.75
	26	π Leonis.	R.	6.6	9.0	11.4	16.6	19.0	21.7	29.0	31.3	33.7	36.4	9. 54. 21.63		22.32	12.77	50.45	.....	9. 55. 12.88
	27	μ Hydræ.	E	24.7	27.7	30.2	35.4	37.9	40.4	48.2	50.7	53.5	55.9	10. 20. 40.62		40.60	31.16	50.56	.....	10. 21. 31.16
	28	34 Sextantis	E	39.2	41.4	43.9	49.1	51.4	54.1	1.2	3.6	6.2	8.7	10. 36. 54.03		53.88	44.47	50.59	.....	10. 37. 44.44
	29	Bradley 3147 S.P.	E	17.6	24.4	28.7	33.1	38.4	44.1	49.2	54.8	1.4	6.3	11. 26. 47.51		46.68	37.20	50.52	.....	.....
	30	β Leonis.	E	8.4	11.2	13.6	18.7	21.1	24.1	31.3	34.1	36.7	39.1	11. 43. 23.99		23.78	14.30	50.52	.....	11. 44. 14.33
	31	β Virginis.	E	41.0	43.4	45.9	51.0	53.2	56.0	3.1	5.6	8.1	10.5	11. 44. 55.93		55.78	46.32	50.54	.....	11. 45. 46.33
32	31 Comæ	E	...	...	4.2	10.0	12.7	15.6	23.6	26.6	29.2	32.1	12. 46. 15.58		15.31	5.82	50.51	.....	12. 47. 5.85	
33	δ Virginis.	E	45.3	47.7	50.1	55.3	57.7	0.2	7.4	10.1	12.4	15.0	12. 50. 0.27		0.11	50.63	50.52	.....	12. 50. 50.65	
34	Arcturus	SD	58.9	1.6	4.2	9.6	12.3	15.0	22.4	25.1	27.8	30.4	14. 10. 30.65		30.41	21.11	50.70	50.72	.....	
35	f Boötis	SD	...	...	...	52.4	55.0	57.6	5.0	7.7	10.7	13.2	14. 20. 13.41		13.17	3.69	50.52	.....	.....	
April 7	36	Polaris	B	12.3	16.7	23.4	30.5	47.6	1.6	10.8	30.4	41.9	49.3	1. 23. 16.89	(- 8.13)	17.54	9.07	51.53	50.34	.....
	37	Bradley 1672	B	49.5	59.1	12.7	21.7	49.0	54.4	1.7	13.8	19.8	25.8	12. 13. 56.90	[- 2.00]	57.20	46.73	49.53	.....	.....
	38	η Virginis.	B	29.6	44.3	59.1	1.7	21.1	23.8	26.2	28.7	...	...	12. 14. 14.10		14.02	4.30	50.28	.....	.....
	39	Vesta.	B	37.8	40.3	42.7	48.0	50.2	...	...	...	...	...	22.9	12. 17. 52.98		52.84			12. 18. 43.07
40	δ Virginis	B	45.6	47.9	50.3	...	...	0.7	...	...	...	...	30.1	12. 50. 0.55		0.45	50.63	50.18	.....	.....
April 8	41	⊙ 2 L.	E	19.2	21.8	24.2	29.3	...	...	41.6	44.1	...	...	1. 6. 34.35	[- 3.71]	34.16			50.27	1. 6. 19.82
	42	Polaris	E	3.6	8.2	13.1	27.7	32.9	43.6	47.9	52.1	9.3	13.2	1. 23. 13.55		17.48	9.13	51.65	.....	.....
	43	Venus i L.	E	36.7	39.2	42.1	47.3	50.2	53.0	0.7	3.6	6.3	8.8	2. 38. 52.96		52.71			50.30	2. 39. 44.85
	44	ρ Argus.	S	24.1	26.8	29.3	34.9	37.5	40.3	48.2	51.0	53.7	56.3	8. 2. 40.37		40.36	30.58	50.22	.....	.....
	45	β Cancri.	S	17.3	19.6	22.2	27.4	29.9	32.4	39.7	42.3	44.7	47.2	8. 10. 32.43		32.23	22.46	50.23	.....	.....
	46	α ¹ Cancri	S	50.2	53.0	55.4	1.0	3.3	6.3	13.7	16.5	19.0	21.6	8. 17. 6.16		5.92	56.17	50.25	.....	.....
	47	α Cancri.	E	13.1	15.6	18.2	23.1	25.8	28.5	35.7	38.1	40.8	43.2	8. 52. 28.37		28.15	18.40	50.25	50.27	.....
	48	83 Cancri.	E	36.0	38.5	41.1	46.7	49.0	51.8	59.2	1.9	4.6	7.1	9. 12. 51.75		51.51	41.74	50.23	.....	.....
	49	Groombridge 3548 S.P.	E	33.1	39.2	44.7	2.0	7.1	23.7	27.8	32.8	49.6	55.1	9. 17. 43.25		41.12	32.34	51.22	.....	.....

Corrections for passage of Semidiameter, Nos. 12, 14, 41, and 43, +6.48"54; +1.8"3; -6.48"60; and +1.8"9.

1. Observed over wire U with the transit-micrometer set to readings 35° 900, 35° 877, 35° 820, 35° 790, 35° 750, 35° 710, 35° 650, 35° 618, 35° 520, 35° 460. Diffused.
8. Observed over wire X with the transit-micrometer set to readings 38° 178, 37° 983, 37° 881, 37° 716, 37° 529, 37° 423, 37° 226, 37° 135, 37° 019, 36° 891.
11. Observed over wire W with the transit-micrometer set to readings 34° 994, 35° 060, 35° 138, 35° 191, 35° 262, 35° 323, 35° 391, 35° 483, 35° 562, 35° 615.
13. Observed over wire T with the transit-micrometer set to readings 35° 376, 35° 434, 35° 480, 35° 557, 35° 732, 35° 830, 35° 888, 35° 937, 36° 099, 36° 114.
18. Observed over wire O with the transit-micrometer set to readings 31° 378, 31° 683, 31° 625, 31° 502, 31° 461, 31° 368, 31° 313, 31° 272, 31° 165, 31° 136.
20. Observed over wire T with the transit-micrometer set to readings 36° 869, 36° 910, 36° 971, 37° 011, 37° 045, 37° 085, 37° 148, 37° 179, 37° 232, 37° 286.
24. Observed over wire X with the transit-micrometer set to readings 38° 685, 38° 539, 38° 388, 38° 275, 38° 159, 38° 061, 37° 960, 37° 831, 37° 684, 37° 539.
29. Observed over wire X with the transit-micrometer set to readings 41° 272, 41° 110, 41° 029, 40° 931, 40° 804, 40° 677, 40° 560, 40° 438, 40° 286, 40° 159.
- 34, 35. Reading of transit-micrometer 29° 600, reduced to normal reading in forming the concluded transit.
36. Observed over wire Q with the transit-micrometer set to readings 35° 580, 35° 621, 35° 669, 35° 750, 35° 884, 35° 980, 36° 075, 36° 740, 36° 842, 36° 922. 36, 38. Cloudy.
37. Observed over wire T with the transit-micrometer set to readings 32° 504, 32° 611, 32° 795, 32° 937, 33° 240, 33° 327, 33° 402, 33° 569, 33° 620, 33° 710.
38. Observed over wires M, N, O, P, U, V, W, and X. 39. Cloudy. Observed over wires O, P, Q, R, S, and Y. 40. Observed over wires O, P, Q, T, and Y.
42. Observed over wire T with the transit-micrometer set to readings 37° 019, 37° 081, 37° 149, 37° 251, 37° 270, 37° 370, 37° 428, 37° 460, 37° 584, 37° 629.
49. Observed over wire X with the transit-micrometer set to readings 41° 313, 41° 191, 41° 037, 40° 624, 40° 515, 40° 112, 40° 003, 39° 874, 39° 513, 39° 361.

1907 APR 13 6.57

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 Transit Corrected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at oh Stellar and [Lossing Rate].	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
April 13	1	Groombridge 2283	SD	0.0	4.8	9.6	14.7	32.0	36.7	39.8	54.5	59.6	3.8	15. 7. 9.62	+ 5.23	6.63	55.59	48.96	48.98	
	2	α Coronæ	SD	36.2	39.0	41.6	47.4	50.1	53.0	1.0	3.7	6.5	9.3	15. 29. 52.95	(- 10.67)	52.53	41.35	48.82	[- 0.21]	
	3	ε Serpentis	SD	2.6	5.1	7.6	12.7	15.0	17.6	24.9	27.3	29.8	32.3	15. 45. 17.64	(- 2.56)	17.37	6.22	48.85		
	4	γ Serpentis	SD	1.3	3.8	6.4	11.7	14.2	16.9	24.2	26.9	29.5	32.1	15. 51. 16.86		16.51	5.26	48.75		
April 14	5	⊙ 1 L.	E	13.6	16.0	18.3	23.7	25.9	28.6	36.0	38.5	41.0	43.5	1. 26. 28.67	(- 11.17)	33.21	48.84	[- 0.24]	I. 28. 22.04	
	6	⊙ 2 L.	E	23.1	25.9	28.2	33.4	35.8	38.3	45.7	48.2	50.7	53.1	1. 28. 38.40	(- 2.80)					
	7	γ Cancri	E	43.6	46.4	48.8	54.3	56.9	59.8	7.5	10.1	12.8	15.4	8. 36. 59.72		59.29	48.04	48.75	.....	
	8	ε Hydræ	E	42.1	44.6	47.0	52.1	54.3	57.0	4.3	6.8	9.2	11.8	8. 40. 57.08		56.76	45.45	48.69	.....	
	9	Groombridge 3548 S.P.	E	26.6	32.1	36.3	55.0	59.4	11.2	16.2	24.5	40.3	44.3	9. 17. 43.06		44.44	34.18	49.74	.....	
	10	δ 1 L.	E	31.6	34.1	36.7	42.2	44.6	47.1	55.0	57.5	0.0	2.7	9. 19. 47.31		46.95			9. 21. 44.78	
	11	o Leonis	E	2.3	4.8	7.2	12.4	14.8	17.4	24.7	27.2	29.8	32.2	9. 35. 17.44		17.11	5.84	48.73	.....	
	12	ε Leonis	E	23.9	26.5	29.2	34.9	37.5	40.3	48.2	50.8	53.6	56.3	9. 39. 40.29		39.85	28.58	48.73	.....	
	13	μ Hydræ	S	26.9	29.3	32.0	37.3	39.7	42.4	50.0	52.6	55.1	57.7	10. 20. 42.46		42.34	31.07	48.73	48.85	
	14	ρ Leonis	S	46.2	48.6	51.0	56.3	58.7	1.3	8.5	11.2	13.6	16.2	10. 27. 1.32		0.98	49.78	48.80	.....	
	15	34 Sextantis	S	40.9	43.4	45.9	51.0	53.2	55.9	3.2	5.8	8.2	10.6	10. 36. 55.96		55.67	44.40	48.73	.....	
	16	Bradley 3147 S.P.	E	30.0	38.3	43.1	0.2	3.8	15.8	20.8	25.4	40.6	45.6	11. 26. 48.42		49.88	38.76	48.88	48.84	
	17	ε Corvi	E	11.3	13.9	16.4	22.1	24.5	27.4	35.1	37.9	40.4	43.1	12. 4. 27.38		27.34	16.09	48.75	.....	
	18	Bradley 1672	E	14.8	21.6	28.3	48.9	54.2	8.7	13.0	17.3	32.8	38.0	12. 14. 0.77		56.37	45.20	48.83	.....	
	19	η Virginis	E	...	...	...	10.8	13.2	15.9	23.0	25.3	27.9	30.4	12. 14. 15.79		15.53	4.29	48.76	.....	
	20	Polaris S.P.	E	7.8	14.3	19.6	41.7	47.1	52.2	10.8	14.8	18.9	24.0	13. 23. 18.78		23.76	9.47	45.73	.....	
April 15	21	⊙ 1 L.	S	54.4	57.0	59.5	4.9	7.0	9.7	17.2	19.5	22.1	24.7	1. 30. 9.76	(- 10.73)	14.59	48.53	[- 0.20]	I. 32. 3.11	
	22	⊙ 2 L.	S	4.5	7.4	10.0	14.9	17.2	19.9	27.0	29.7	32.2	34.7	1. 32. 19.91	(- 1.31)					
	23	Polaris	S	39.8	48.8	53.3	4.0	9.3	15.1	21.4	30.9	38.5	45.4	1. 23. 28.32		20.35	9.47	49.12	.....	
	24	Aldebaran	S	23.8	26.3	28.9	34.2	36.6	39.4	47.0	49.4	51.9	54.7	4. 29. 39.38		39.09	27.62	48.53	4. 30. 27.58	
	25	Rigel	S	54.4	56.8	59.3	4.6	6.8	9.4	16.8	19.3	21.9	24.0	5. 9. 9.49		9.40	57.87	48.47	5. 9. 57.89	
	26	β Tauri	S	11.8	14.7	17.2	23.0	25.9	28.7	36.9	39.7	42.8	45.3	5. 19. 28.78		28.39	16.84	48.45	5. 20. 16.88	
	27	δ Orionis	S	5.5	8.2	10.3	15.7	18.0	20.5	27.6	30.3	32.7	35.2	5. 26. 26.55		20.39	8.83	48.44	5. 27. 8.88	
	28	ε Orionis	S	19.9	22.3	24.9	30.1	32.3	35.0	42.2	44.8	47.0	49.6	5. 30. 34.96		34.81	23.23	48.42	5. 31. 23.29	
	29	α Orionis	S	58.2	0.8	3.1	8.5	10.8	13.2	20.6	23.0	25.4	28.1	5. 49. 13.33		13.11	1.52	48.41	5. 50. 1.59	
	30	η Cancri	S	9.4	12.1	14.6	20.2	22.7	25.3	33.1	35.7	38.5	41.0	8. 26. 25.42		25.09	13.58	48.49	8. 27. 13.55	
	31	γ Cancri	S	43.8	46.7	49.0	54.5	57.0	59.8	7.7	10.4	13.0	15.6	8. 36. 59.92		59.58	48.02	48.44	8. 37. 48.04	
	32	Groombridge 3548 S.P.	S	19.6	40.5	53.0	5.2	15.2	29.0	38.9	49.5	0.1	7.4	9. 17. 43.72		45.87	34.49	48.62	.....	
	33	o Leonis	S	2.4	5.0	7.5	12.6	15.0	17.5	24.9	27.4	29.8	32.3	9. 35. 17.60		17.36	5.82	48.46	9. 36. 5.81	
	34	γ ¹ Leonis	S	41.1	43.6	46.3	51.8	54.2	56.9	4.7	7.3	10.0	...	10. 13. 57.01		56.69	45.28	48.59	10. 14. 45.13	
	35	δ 1 L.	S	13.3	15.8	18.3	23.7	26.1	28.8	36.5	39.1	41.5	44.1	10. 18. 28.88		28.64			10. 20. 26.25	
	36	l Leonis	S	...	...	...	18.8	23.8	26.3	29.0	36.2	38.8	41.2	43.7	10. 43. 28.93		28.68	17.10	48.42	10. 44. 17.12
	37	δ Virginis	S	...	49.8	52.2	57.5	59.8	2.3	9.5	12.0	14.5	...	12. 50. 2.35		2.16	50.65	48.49	12. 50. 50.58	
	38	Polaris S.P.	S	5.1	20.9	31.7	39.5	48.9	57.6	4.2	15.3	23.0	29.6	13. 23. 11.45		18.40	9.48	51.08	.....	
39	Groombridge 2283	SD	38.4	43.3	48.6	52.8	56.7	1.0	4.6	8.2	13.1	17.0	15. 7. 10.64		6.40	56.04	49.64	48.50		
40	λ Ophiuchi	SD	5.6	8.0	10.3	15.4	17.7	20.3	27.6	30.2	32.6	35.0	16. 25. 20.42		20.24	8.64	48.40	.....		
41	θ Ophiuchi	SD	...	...	...	12.2	17.8	20.7	23.5	31.4	34.2	...	...	17. 15. 23.47		23.57	11.83	48.26	.....	
42	σ Ophiuchi	SD	46.1	48.7	51.0	56.0	58.3	1.0	8.2	10.8	13.2	15.6	17. 21. 1.04		0.85	49.18	48.33	.....		
43	α Ophiuchi	SD	29.0	31.4	34.1	39.4	41.6	44.6	51.7	54.2	56.9	59.5	17. 29. 44.40		44.13	32.55	48.42	.....		
44	β Ophiuchi	SD	44.7	47.0	49.4	54.8	57.1	59.6	6.9	9.2	11.7	14.6	17. 37. 59.65		59.45	47.82	48.37	.....		
45	μ Herculis	SD	40.7	43.2	46.1	51.8	54.7	57.2	5.7	8.3	11.1	13.9	17. 41. 57.44		57.05	45.44	48.39	.....		
April 16	46	⊙ 1 L.	D	37.0	39.3	42.0	47.1	49.6	52.2	59.4	2.0	4.7	6.9	1. 33. 52.18		56.82	48.30	[- 0.19]	I. 35. 45.11	
	47	⊙ 2 L.	D	46.8	49.2	51.6	57.0	59.6	1.9	9.1	11.8	14.2	16.8	1. 36. 1.96						
	48	Polaris	JS	16.7	22.6	29.3	34.9	40.5	46.3	52.6	58.6	4.6	11.2	1. 23. 24.79	(- 9.69) (- 2.55)	21.84	9.57	47.73	.....	

Corrections for passage of Semidiameter, Nos. 10, and 35, +69^s.09: and +69^s.16.

- Observed over wire P with the transit-micrometer set to readings 35^r.402, 34^r.480, 35^r.578, 35^r.665, 35^r.940, 36^r.020, 36^r.090, 36^r.345, 36^r.410, 36^r.492.
- Observed over wire X with the transit-micrometer set to readings 35^r.791, 35^r.651, 35^r.550, 35^r.119, 34^r.990, 34^r.729, 34^r.585, 34^r.413, 34^r.018, 33^r.939.
- Correction to R.A. on true meridian, -0^s.01.
- Observed over wire X with the transit-micrometer set to readings 36^r.918, 36^r.753, 36^r.639, 36^r.251, 36^r.161, 35^r.882, 35^r.771, 35^r.687, 35^r.339, 35^r.220.
- Observed over wire P with the transit-micrometer set to readings 35^r.575, 35^r.662, 35^r.761, 36^r.020, 36^r.065, 36^r.242, 36^r.299, 36^r.368, 36^r.549, 36^r.620.
- Observed over wire T with the transit-micrometer set to readings 35^r.689, 35^r.641, 35^r.579, 35^r.418, 35^r.355, 35^r.333, 35^r.199, 35^r.112, 35^r.073, 35^r.034.
- Observed over wire X with the transit-micrometer set to readings 37^r.395, 37^r.500, 37^r.549, 37^r.604, 37^r.674, 37^r.718, 37^r.793, 37^r.824, 37^r.937, 37^r.995.
- Very diffused.
- Observed over wire Q with the transit-micrometer set to readings 34^r.576, 34^r.093, 33^r.778, 33^r.495, 33^r.239, 32^r.923, 32^r.680, 32^r.444, 32^r.181, 32^r.020.
- Observed over wire T with the transit-micrometer set to readings 35^r.670, 35^r.521, 35^r.422, 35^r.362, 35^r.273, 35^r.220, 35^r.115, 35^r.076, 34^r.990, 34^r.952.
- Observed over wire W with the transit-micrometer set to readings 35^r.236, 35^r.316, 35^r.414, 35^r.488, 35^r.560, 35^r.620, 35^r.678, 35^r.740, 35^r.830, 35^r.883.
- Observed over wire O with the transit-micrometer set to readings 34^r.967, 34^r.995, 35^r.071, 35^r.127, 35^r.164, 35^r.203, 35^r.265, 35^r.310, 35^r.364, 35^r.403.

April 16^d 1^h. Accident to clock pricker of Chronograph; distance of prickers 0^s.92.

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 α Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		[Level].	[Azimuth].					
				s	s	s	s	s	s	s	s	s	s								
1906 April 23	1	72 Ophiuchi	W	50.3	52.8	55.2	0.5	2.9	5.4	12.6	15.1	17.8	20.2	18. 2. 5.44	+ 5.23		5.14	51.91	46.77	46.86	.....
	2	δ Ursæ Minoris	W	41.5	45.9	50.0	54.0	58.2	13.1	16.9	20.7	25.1	28.8	18. 2. 18.55	- 9.09		18.84	5.19	46.35	- 0.20	.....
	3	D 2 L.	W	...	39.4	42.0	47.6	50.1	53.0	0.8	3.6	6.2	...	18. 24. 53.00	- 4.29		52.88				18. 24. 30.14
	4	2 Aquilæ	W	...	6.4	8.6	13.9	16.2	18.9	26.1	28.8	31.1	...	18. 36. 18.91			18.71	5.42	46.71		.....
	5	β^1 Libræ	W	...	37.0	43.2	46.0	49.1	57.6	0.7	3.5	6.5	...	18. 45. 49.08			48.71	35.38	46.67		.....
	6	Cephei 51 S.P.	W	22.0	25.6	28.7	33.1	46.6	50.7	54.1	57.6	12.5	15.9	18. 55. 20.17			18.46	4.59	46.13		.....
	7	ξ Aquilæ	W	1.8	4.4	6.8	12.1	14.5	17.1	24.7	27.0	29.6	32.1	19. 0. 17.17			16.86	3.53	46.67		.....
April 24	8	$\odot$ 1 L.	AO	25.6	28.0	30.3	35.6	38.0	40.8	48.2	50.8	53.3	55.9	2. 3. 40.81						46.66	2. 5. 32.61
	9	$\odot$ 2 L.	AO	...	38.9	41.4	46.7	49.1	51.6	59.0	1.6	4.4	...	2. 5. 51.74			45.97				
April 27	10	ι Leonis	S	16.1	18.4	21.0	26.3	28.7	31.2	38.7	41.2	43.6	46.2	10. 43. 31.30	+ 5.45		31.02	16.97	45.95	46.02	.....
	11	χ Leonis	S	7.5	9.9	12.4	17.6	19.9	22.7	29.8	32.3	34.9	37.4	10. 59. 22.60	- 10.43		22.34	8.19	45.85	- 0.25	.....
	12	δ Leonis	S	3.0	5.7	8.2	13.6	16.3	19.0	26.8	29.5	32.0	34.7	11. 8. 19.04	- 2.61		18.69	4.61	45.92		.....
April 28	13	α Hydræ	B	55.4	57.9	0.2	5.7	7.9	10.5	17.7	20.2	22.8	25.3	9. 22. 10.52			10.38	55.92	45.54	45.64	.....
	14	α Hydræ (E&E)	B	36.9	52.1	7.0	22.2	37.0	52.0	7.2	...	...	...	9. 22. 10.53			10.39	55.92	45.53	- 0.23	.....
	15	ξ Leonis	B	49.8	52.2	54.8	59.9	2.3	5.1	12.3	14.9	17.2	19.9	9. 26. 5.00			4.71	50.27	45.56		.....
	16	ξ Leonis (E&E)	B	30.9	46.2	1.4	16.7	31.6	46.7	2.1	...	...	...	9. 26. 4.98			4.69	50.27	45.58		.....
	17	γ^1 Leonis	W	43.9	46.6	49.1	54.5	57.1	59.9	7.5	10.2	12.9	15.5	10. 13. 59.88			59.54	45.10	45.56	45.62	.....
	18	δ Crateris	W	36.1	38.4	41.0	46.3	48.9	51.4	58.9	1.6	4.0	6.5	11. 13. 51.47			51.38	36.85	45.47		.....
	19	Bradley 3147 S.P.	W	24.7	28.8	32.4	36.3	40.0	43.5	47.0	50.9	54.8	58.3	23. 26. 56.16			56.86	42.32	45.46		.....
	20	β Andromedæ	JS	44.7	...	...	...	...	...	...	57.3	15.3	33.6	1. 3. 39.42	- 2.50		39.00	24.07	45.07	45.13	1. 4. 24.12
	21	Polaris	JS	22.4	26.8	30.8	35.0	39.2	43.7	47.6	51.4	17.4	22.7	1. 23. 30.94			26.74	12.95	46.21	- 0.24	.....
April 29	22	$\odot$ 1 L.	JS	19.0	21.6	23.9	...	...	...	...	...	...	20.5	2. 22. 34.47			34.17				2. 24. 24.99
	23	η Cancri	JS	...	...	...	23.6	25.9	28.7	36.2	39.0	41.6	44.2	8. 26. 28.67			28.33	13.33	45.00		8. 27. 13.38
	24	γ Cancri	JS	...	...	...	...	...	...	10.8	13.6	16.1	18.9	8. 37. 3.12			2.77	47.78	45.01		8. 37. 47.81
	25	ϵ Hydræ	JS	45.4	47.8	50.2	55.4	57.8	0.4	7.6	10.2	12.8	15.1	8. 41. 0.43			0.19	45.21	45.02		8. 41. 45.23
	26	ϵ Hydræ (E&E)	JS	25.9	41.0	...	10.8	...	...	40.5	55.7	...	...	8. 41. 0.10			59.86	45.21	45.35		.....
	27	α Cancri	JS	18.0	20.5	23.0	28.2	30.7	33.3	40.6	43.2	45.7	48.2	8. 52. 33.30			33.02	18.07	45.05		8. 53. 18.06
	28	α Cancri (E&E)	JS	57.9	13.4	28.5	43.9	58.9	14.2	29.4	...	...	...	8. 52. 33.00			32.78	18.07	45.29		.....
	29	κ Cancri	JS	36.7	39.2	41.7	47.0	49.4	51.9	59.3	1.9	4.4	6.9	9. 1. 52.00			51.73	36.74	45.01		9. 2. 36.77
	30	α Hydræ	JS	55.9	58.3	0.8	5.9	8.2	11.0	18.3	20.8	23.2	25.9	9. 22. 10.99			10.86	55.91	45.05		9. 22. 55.90
	31	ξ Leonis	JS	50.2	52.7	55.2	0.4	2.8	5.5	12.7	15.3	17.9	20.3	9. 26. 5.46			5.18	50.25	45.07		9. 26. 50.22
	32	α Leonis	JS	5.4	8.1	10.6	15.8	18.2	20.8	28.0	30.7	33.1	35.7	9. 35. 20.80			20.53	5.62	45.09		9. 36. 5.56
	33	ϵ Corvi	JS	14.9	17.5	20.0	25.6	28.1	31.0	38.7	41.5	44.0	46.8	12. 4. 30.97			30.98	16.01	45.03		12. 5. 15.99
	34	Bradley 1672	JS	24.4	34.7	40.2	45.9	51.2	57.7	4.2	8.7	15.9	21.9	12. 13. 58.82			55.79	40.13	44.34		.....
	35	β Corvi	RC	...	...	...	...	...	40.2	48.0	50.8	53.6	56.1	12. 28. 40.29			40.30	25.58	45.28	45.40	.....
	36	ρ Virginis	RC	5.9	8.3	10.8	16.0	18.3	21.0	28.4	30.9	33.4	35.9	12. 36. 21.05			20.78	6.08	45.30		.....
	37	f Boötis	JS	...	...	...	13.9	16.4	19.2	26.8	29.6	32.1	34.7	14. 21. 19.21			18.87	3.90	45.03	45.13	14. 22. 3.86
	38	ρ Boötis	JS	43.8	46.6	49.4	55.5	58.2	1.2	9.6	12.6	15.4	18.2	14. 27. 1.23			0.83	45.82	44.99		14. 27. 45.82
39	ϵ^2 Boötis	RC	50.2	53.0	55.7	1.5	4.2	7.1	15.2	18.1	20.9	23.5	14. 40. 7.11			6.74	51.97	45.23	45.40	.....	
40	ψ Boötis	JS	22.8	25.4	28.1	33.9	36.6	39.5	47.5	50.4	53.2	56.1	14. 59. 39.52			39.15	24.16	45.01	45.13	15. 0. 24.13	
41	Groombridge 2283	JS	34.1	41.4	46.7	51.2	55.7	0.3	5.2	11.1	15.8	21.6	15. 7. 14.82			12.45	57.43	44.98		.....	
April 30	42	Polaris	E	11.8	44.8	47.7	51.4	5.7	9.4	13.6	26.6	29.7	33.0	1. 23. 36.69	+ 5.23		28.67	13.62	44.95	44.98	.....
	43	Venus 2 L.	E	14.8	17.4	19.8	25.2	27.7	30.4	37.9	40.5	43.2	45.8	1. 59. 30.43	- 11.13		30.09				2. 0. 12.94
May 1	44	$\odot$ 1 L.	E	55.3	57.8	0.3	5.9	8.2	11.0	18.3	20.9	23.3	26.1	2. 30. 10.87	- 1.81						2. 32. 1.50
	45	$\odot$ 2 L.	E	7.4	9.9	12.2	17.8	20.1	22.9	30.2	33.1	35.6	38.1	2. 32. 22.89			16.55				.....
	46	Aldebaran	E	27.4	29.9	32.3	37.9	40.4	43.0	50.2	53.0	55.4	58.1	4. 29. 42.92			42.58	27.50	44.92		.....
	47	Rigel	E	57.8	0.2	2.7	7.9	10.2	13.0	20.2	...	...	...	5. 9. 12.90			12.76	57.69	44.93		.....

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 14, 16, 26, and 28, - 131^m68 : - 131^m68 : - 130^m82 : and - 130^m83.
 Corrections for passage of Semidiameter, Nos. 3, 22, and 43, - 69^s45 : + 65^s71 : and - 2^s11.

2. Observed over wire V with the transit-micrometer set to readings 35^m110, 35^m210, 35^m310, 35^m400, 35^m489, 35^m840, 35^m940, 36^m032, 36^m142, 36^m242.
3. Ill-defined.
6. Observed over wire Q with the transit-micrometer set to readings 36^m082, 36^m026, 35^m924, 35^m886, 35^m644, 35^m630, 35^m490, 35^m400, 35^m092, 34^m990.
19. Observed over wire X with the transit-micrometer set to readings 37^m240, 37^m130, 37^m062, 36^m986, 36^m872, 36^m818, 36^m709, 36^m623, 36^m550, 36^m471.
20. Observed over wires M, X, Y, and Z.
21. Observed over wire O with the transit-micrometer set to readings 32^m398, 32^m461, 32^m495, 32^m532, 32^m546, 32^m585, 32^m633, 35^m632, 32^m886, 32^m915.
22. Cloudy. Observed over wires O, P, Q, and Z.
34. Observed over wire W with the transit-micrometer set to readings 35^m502, 35^m632, 35^m724, 35^m790, 35^m869, 35^m937, 36^m017, 36^m077, 36^m169, 36^m232.
41. Observed over wire Q with the transit-micrometer set to readings 34^m939, 35^m046, 35^m142, 35^m211, 35^m285, 35^m384, 35^m444, 35^m562, 35^m633, 35^m737.
42. Observed over wire X with the transit-micrometer set to readings 42^m701, 42^m953, 42^m990, 43^m019, 43^m153, 43^m176, 43^m225, 43^m332, 43^m375, 43^m391.
47. 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 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 (Lossing Rate).	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
May 8	1	ε Herculis.....	E	41'0	43'6	46'4	52'5	55'2	58'1	6'7	9'5	12'3	15'3	16. 55. 58'24	+ 5'08	57'71	41'01	43'30	43'39	16. 56. 40'91
	2	δ Ursæ Minoris.....	E	43'5	52'6	1'6	29'9	36'8	55'0	2'0	11'9	33'2	41'0	18. 2. 27'87	(- 11'37)	25'40	9'04	43'64	[- 0'27]	.....
	3	μ Sagittarii.....	E	7'7	9'9	12'6	18'2	20'7	23'6	31'0	33'9	36'5	39'1	18. 7. 23'48	(- 3'54)	23'36	6'61	43'25	.....	18. 8. 6'55
	4	β ¹ Lyrae.....	E	35'3	38'2	41'0	47'4	49'9	53'3	1'6	4'7	7'3	10'7	18. 45. 53'12		52'57	35'82	43'25	.....	18. 45. 35'75
	5	Cephei 51 S.P.....	E	38'8	48'4	55'8	18'7	24'4	39'0	46'2	52'8	10'3	16'9	18. 55. 14'95		16'48	59'25	42'77	.....	.....
	6	α Andromedæ.....	JS	...	...	...	...	57'2	59'8	2'7	19'5	36'8	0.	2. 46'12	(- 10'45)	45'69	28'41	42'72	42'75	0. 3. 28'44
	7	γ Pegasi.....	JS	...	...	...	...	45'4	48'0	50'4	53'0	8'3	23'9	0. 7. 37'95	(- 2'97)	37'60	20'38	42'78	[- 0'30]	0. 8. 20'35
	8	β Andromedæ.....	JS	23'9	26'8	29'6	36'0	39'0	42'0	50'8	54'0	57'0	59'9	1. 3. 42'09		41'62	24'27	42'65	.....	1. 4. 24'36
	9	Polaris.....	JS	35'4	39'7	43'6	54'6	58'3	2'6	12'4	16'7	22'7	34'8	1. 23. 29'32		34'80	17'87	43'07	.....	.....
	10	Venus 2 L.....	JS	42'4	44'9	47'1	52'7	55'0	57'6	4'9	7'6	10'2	12'8	1. 46. 57'68		57'33			.....	1. 47. 38'10
May 9	11	⊙ 1 L.....	JS	45'5	48'1	50'8	56'3	58'7	1'5	9'0	11'5	14'0	16'7	3. 1. 1'37		} 7'57				3. 2. 50'28
	12	⊙ 2 L.....	JS	58'8	1'3	3'9	9'4	11'8	14'7	21'6	24'8	27'4	29'8	3. 3. 14'51		} 7'57				.....
	13	Castor.....	JS	...	...	38'1	44'3	47'0	50'1	58'5	1'4	...	...	7. 27. 50'06		49'61	32'27	42'66	.....	7. 28. 32'27
	14	Procyon.....	JS	...	...	...	...	34'8	37'3	44'6	47'1	49'5	51'9	7. 33. 37'35		37'06	19'76	42'70	.....	7. 34. 19'72
	15	Pollux.....	JS	31'0	33'7	36'5	42'3	45'0	48'0	56'2	59'0	1'7	4'7	7. 38. 47'99		47'56	30'17	42'61	.....	7. 39. 30'21
	16	ε Leonis.....	S	...	...	...	...	45'6	53'6	56'3	59'1	1'6	9. 39. 45'70		45'29	28'19	42'90	43'05	.....	.....
	17	μ Leonis.....	JS	23'5	26'2	28'9	34'6	37'2	40'1	48'2	51'0	53'6	56'5	9. 46. 40'15		39'73	22'32	42'59	42'75	9. 47. 22'36
	18	Regulus.....	JS	22'0	24'5	27'0	32'2	34'7	37'3	44'6	47'2	49'6	52'3	10. 2. 37'31		36'98	19'55	42'57	.....	10. 3. 19'60
	19	γ ¹ Leonis.....	S	46'4	49'0	51'6	57'1	59'5	2'4	10'1	12'8	15'3	18'1	10. 14. 2'39		2'00	44'95	42'95	43'05	.....
	20	ρ Leonis.....	S	51'5	54'3	56'7	1'9	4'3	7'0	14'2	16'7	19'1	21'5	10. 27. 6'88		6'55	49'47	42'92	.....	.....
	21	τ Leonis.....	JS	7'1	9'4	11'8	17'0	19'4	21'9	29'2	31'6	34'1	36'7	11. 22. 21'97		21'69	4'31	42'62	42'75	11. 23. 4'30
	22	Bradley 3147 S.P.....	JS	9'4	16'2	33'4	38'3	44'2	49'3	53'8	59'6	6'4	12'6	11. 27. 1'71		2'58	45'90	43'32	.....	.....
	23	β Leonis.....	JS	16'2	18'8	21'4	26'7	29'1	31'9	39'3	41'9	44'4	47'0	11. 43. 31'83		31'47	14'08	42'61	.....	11. 44. 14'07
	24	π Virginis.....	JS	4'2	6'7	9'1	14'3	16'7	19'3	26'5	29'0	31'5	33'9	11. 55. 19'28		18'98	1'60	42'62	.....	11. 56. 1'58
	25	α Virginis.....	JS	26'2	28'7	31'1	36'1	38'6	41'2	48'4	51'0	53'6	56'1	11. 59. 41'26		40'94	23'54	42'60	.....	12. 0. 23'54
	26	Bradley 1672.....	JS	33'4	40'8	46'4	51'2	56'2	2'4	7'6	13'2	24'9	33'1	12. 13. 56'68		53'42	35'19	41'77	.....	.....
	27	η Virginis.....	JS	7'0	9'4	11'8	16'9	19'2	21'7	...	...	...	...	12. 14. 21'85		21'60	4'18	42'58	.....	12. 15. 4'20
	28	31 Comæ.....	JS	6'6	9'4	12'1	18'0	20'9	23'6	31'6	34'5	37'3	40'3	12. 46. 23'61		23'19	5'74	42'55	.....	12. 47. 5'78
	29	Polaris S.P.....	JS	25'6	32'7	39'5	55'2	2'8	12'6	29'3	35'5	41'2	51'3	13. 23. 34'94		38'28	18'13	39'85	.....	.....
	30	κ Virginis.....	SD	53'5	55'9	58'6	3'7	6'4	8'8	15'9	18'6	21'0	23'6	14. 7. 8'76		8'59	51'52	42'93	43'12	.....
	31	Arcturus.....	SD	22'9	25'6	28'0	33'5	36'0	38'8	46'3	49'0	51'6	54'3	14. 10. 38'76		38'38	21'33	42'95	.....	.....
	32	ε ² Bootis.....	JS	53'0	55'6	58'6	4'2	6'9	9'8	17'8	20'8	23'6	26'3	14. 40. 9'83		9'40	52'03	42'63	42'75	14. 40. 51'97
	33	Mars 1 L.....	JS	41'6	44'1	46'7	52'0	54'4	57'1	4'8	7'4	10'0	12'4	14. 57. 57'21		} 57'69				14. 58. 40'25
	34	Mars 2 L.....	JS	42'8	45'3	47'9	53'2	55'6	58'3	5'9	8'5	11'1	13'7	14. 57. 58'39		} 57'69				.....
	35	ζ ¹ Libræ.....	JS	57'8	0'3	3'0	8'3	10'7	13'3	20'9	23'5	25'8	28'6	15. 22. 13'38		13'26	55'90	42'64	.....	15. 22. 55'82
	36	γ Herculis.....	JS	47'4	50'1	52'8	58'1	0'7	3'4	10'9	13'6	16'1	18'7	16. 17. 3'34		2'96	45'48	42'52	.....	16. 17. 45'51
	37	η Ophiuchi.....	JS	59'5	2'2	4'8	10'0	12'3	15'1	22'5	25'2	27'7	30'3	17. 4. 15'12		15'00	57'63	42'63	.....	17. 4. 57'54
	38	α ¹ Herculis.....	JS	23'0	25'5	28'0	33'5	35'8	38'3	45'6	48'3	51'0	53'6	17. 9. 38'42		38'07	20'61	42'54	.....	17. 10. 20'61
	39	θ Ophiuchi.....	JS	13'3	16'1	18'8	24'4	27'1	29'9	37'8	40'6	43'4	46'1	17. 15. 29'94		29'92	12'43	42'51	.....	17. 16. 12'45
	40	Polaris.....	W	39'0	43'1	47'5	8'2	12'7	17'1	21'6	26'4	31'1	46'3	1. 23. 40'74	(- 11'43)	33'23	18'39	45'16	42'72	.....
	41	Venus 2 L.....	W	...	45'6	48'0	53'5	55'7	58'4	5'9	8'3	10'9	...	1. 45. 58'44	(- 2'72)	58'05			[- 0'28]	1. 46. 38'82
May 10	42	⊙ 1 L.....	W	39'4	41'8	44'3	49'9	52'3	55'0	2'6	5'3	8'0	10'7	3. 4. 55'09		} 1'41				3. 6. 44'09
	43	⊙ 2 L.....	W	52'8	55'3	57'9	3'4	5'9	8'4	16'0	18'9	21'3	23'9	3. 7. 8'54		} 1'41				.....
	44	Castor.....	W	32'4	35'3	38'1	44'4	47'2	50'3	58'6	1'6	4'3	7'4	7. 27. 50'14		49'62	32'26	42'64	.....	7. 28. 32'25
	45	Procyon.....	W	22'3	24'7	27'3	32'4	34'9	37'4	44'6	47'1	49'4	52'0	7. 33. 37'37		37'05	19'74	42'69	.....	7. 34. 19'68
	46	Pollux.....	W	...	...	...	42'3	45'0	48'0	56'2	59'0	1'8	4'6	7. 38. 48'00		47'51	30'16	42'65	.....	.....
	47	⊙ 1 L.....	W	25'5	27'9	30'5	35'9	38'6	41'4	49'1	51'8	54'5	57'2	8. 3. 41'40		40'98			.....	8. 4. 31'74
	48	Regulus.....	S	21'9	24'5	27'0	32'2	34'7	37'2	44'7	47'2	49'6	52'3	10. 2. 37'29		36'91	19'53	42'62	42'75	.....
	49	γ ¹ Leonis.....	S	46'8	49'4	51'8	57'5	59'9	2'7	10'3	13'1	15'7	18'3	10. 14. 2'71		2'27	44'93	42'66	.....	.....
	50	δ Leonis.....	S	43'0	45'6	47'9	53'0	55'4	58'0	5'2	7'8	10'1	12'7	10. 54. 58'02		57'71	40'32	42'61	.....	.....
	51	δ Crateris.....	W	38'9	41'4	43'8	49'2	51'7	54'3	1'6	4'3	6'9	9'3	11. 13. 54'30		54'15	36'72	42'57	42'72	11. 14. 36'74
	52	τ Leonis.....	W	7'1	9'6	12'0	17'1	19'4	22'0	29'2	31'8	34'2	36'7	11. 22. 22'06		21'75	4'30	42'55	.....	11. 23. 4'34

Corrections for passage of Semidiameter, Nos. 10, 41, and 47, - 1'96: - 1'93: - and 68'14.

2. Observed over wire P with the transit-micrometer set to readings 35°327, 35°542, 35°772, 36°385, 36°574, 36°940, 37°135, 37°391, 37°937, 38°091.
5. Observed over wire X with the transit-micrometer set to readings 38°697, 38°531, 38°733, 37°949, 37°820, 37°499, 37°381, 37°245, 36°884, 36°766.
6. Observed over wires V, W, X, Y, and Z.
7. Observed over wires U, V, W, X, Y, and Z.
9. Observed over wire Q with the transit-micrometer set to readings 35°587, 35°623, 35°646, 35°744, 35°753, 35°814, 35°886, 35°941, 35°966, 36°072.
22. Observed over wire W with the transit-micrometer set to readings 35°978, 35°817, 35°428, 35°328, 35°174, 35°049, 35°046, 34°828, 34°678, 34°521.
26. Observed over wire S with the transit-micrometer set to readings 34°882, 34°965, 35°040, 35°101, 35°157, 35°250, 35°327, 35°369, 35°447, 36°615.
29. Observed over wire U with the transit-micrometer set to readings 36°363, 36°292, 36°222, 36°089, 36°035, 35°954, 35°802, 35°741, 35°713, 35°607.
31. Diffused.
40. Observed over wire T with the transit-micrometer set to readings 34°040, 34°072, 34°124, 34°318, 34°364, 34°393, 34°392, 34°557, 34°578, 34°650.
47. 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 Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
May 15	1	♄ Libræ.....	JS	...	...	58.9	4.4	6.9	9.6	17.1	19.8	...	...	15. 6. 9.59	+ 5.12	9.55	50.45	40.90	41.10	15. 6. 50.47
	2	♄ Libræ.....	JS	59.5	2.0	4.7	9.9	12.4	15.2	22.7	25.1	27.6	30.4	15. 22. 15.11	(- 10.55)	15.04	55.96	40.92	[- 0.28]	15. 22. 55.96
	3	γ Herculis.....	JS	49.2	51.6	54.3	59.6	2.2	5.0	12.7	15.2	17.8	20.6	16. 17. 4.98	(- 2.26)	4.62	45.56	40.94		16. 17. 45.53
	4	κ Ophiuchi.....	JS	16.3	18.9	21.1	26.5	28.9	31.4	38.5	41.2	43.6	46.2	16. 52. 31.42		31.13	12.10	40.97		16. 53. 12.03
	5	θ Ophiuchi.....	JS	14.9	17.9	20.6	26.2	28.7	31.7	39.4	42.5	45.0	47.6	17. 15. 31.62		31.65	12.56	40.91		17. 16. 12.55
	6	σ Ophiuchi.....	JS	54.3	56.8	59.1	4.2	6.6	9.2	16.4	18.9	21.4	23.8	17. 21. 9.22		8.97	49.83	40.86		17. 21. 49.87
	7	Polaris.....	E	0.2	6.0	11.0	27.6	32.3	37.4	55.4	0.3	12.9	19.1	1. 23. 47.93	(- 10.17)	40.48	21.59	41.11	40.82	.....
	8	Venus 2 L.....	E	52.3	54.9	57.4	2.8	5.2	7.8	15.3	17.8	20.2	22.8	1. 43. 7.81	(- 1.02)	7.57				1. 43. 46.60
May 16	9	β Andromedæ.....	RC	26.2	28.8	31.6	38.2	41.1	44.1	52.9	55.9	59.2	2.2	1. 3. 44.21	(- 11.66)	43.69	24.46	40.77	40.81	1. 4. 24.49
	10	Polaris.....	RC	16.3	33.0	39.6	48.2	3.0	11.7	19.0	32.9	39.0	45.2	1. 23. 49.76	(- 1.57)	39.61	22.31	42.70	[- 0.27]	.....
	11	Venus 2 L.....	RC	55.2	57.8	0.3	5.6	7.8	10.4	17.8	20.3	22.9	25.4	1. 43. 10.51		10.18				1. 43. 49.23
May 17	12	☉ 1 L.....	RC	11.3	13.6	16.2	21.8	24.3	27.1	34.6	37.3	39.8	42.4	3. 32. 27.00						3. 34. 14.69
	13	☉ 2 L.....	RC	25.7	28.3	30.8	36.3	39.0	41.4	49.2	52.0	54.5	57.3	3. 34. 41.61		33.92				
	14	Aldebaran.....	RC	31.6	34.1	36.7	42.1	44.6	47.1	54.7	57.3	59.9	2.5	4. 29. 47.22		46.86	27.51	40.65		4. 30. 27.62
	15	Castor.....	RC	34.4	37.2	40.1	46.2	48.9	51.7	0.5	3.5	6.3	9.2	7. 27. 51.98		51.48	32.17	40.69		7. 28. 32.21
	16	Procyon.....	RC	24.2	26.8	29.1	34.1	36.7	39.2	46.3	39.0	51.3	53.8	7. 33. 39.21		38.93	19.67	40.74		7. 34. 19.66
	17	Pollux.....	RC	33.0	35.6	38.1	44.2	46.9	49.6	57.8	0.8	3.5	6.4	7. 38. 49.77		49.30	30.07	40.77		7. 39. 30.02
	18	γ Leonis.....	RC	48.7	51.2	53.7	59.2	1.7	4.7	12.2	14.9	17.4	20.1	10. 14. 4.54		4.14	44.84	40.70		10. 14. 44.84
	19	ρ Leonis.....	RC	53.8	56.3	58.8	3.9	6.3	9.1	16.4	19.0	21.2	23.7	10. 27. 9.01		8.70	49.36	40.66		10. 27. 49.39
	20	δ Crateris.....	RC	...	...	...	...	...	...	3.4	5.9	8.6	11.2	11. 15. 56.04		55.95	36.64	40.69		11. 14. 36.63
	21	Bradley 3147 S.P.....	RC	35.8	44.6	49.7	4.0	9.3	13.6	25.2	29.2	33.6	45.3	11. 27. 4.41		7.41	48.56	41.15		.....
	22	ν Leonis.....	RC	11.0	13.3	15.6	20.9	23.2	25.9	33.1	35.4	37.8	40.6	11. 31. 25.83		25.60	6.26	40.66		11. 32. 6.28
	23	π Virginis.....	RC	...	8.7	11.0	16.2	18.5	21.2	28.3	30.8	33.5	...	11. 55. 21.18		20.88	1.53	40.65		11. 56. 1.56
	24	Bradley 1672.....	RC	28.3	35.7	43.3	57.2	2.5	8.0	21.9	27.3	40.7	54.7	12. 13. 58.27		51.19	31.07	39.88		.....
	25	ρ Virginis.....	RC	10.6	12.9	15.3	20.7	22.9	25.6	33.0	35.4	37.9	40.6	12. 36. 25.67		25.21	5.98	40.77		12. 37. 5.88
	26	35 Virginis.....	WS	7.2	9.5	12.1	17.2	19.3	22.2	29.3	32.0	34.4	36.8	12. 42. 22.15		21.88	2.62	40.74	40.90	.....
	27	35 Virginis..... (E&E)	WS	25.9	40.8	56.0	10.7	25.3	40.4	55.4	...	...	...	12. 42. 22.03		21.76	2.62	40.86		.....
	28	31 Comæ.....	WS	8.4	11.2	13.8	19.6	22.5	25.3	33.4	36.4	39.2	42.1	12. 46. 25.37		24.91	5.68	40.77		.....
	29	31 Comæ..... (E&E)	WS	23.5	40.4	57.3	14.0	30.7	47.5	3.9	...	...	...	12. 46. 25.31		24.85	5.68	40.83		.....
	30	Polaris S.P.....	RC	39.9	49.1	55.3	7.1	14.8	19.9	31.2	36.0	40.9	52.2	13. 23. 33.15		42.16	22.71	40.55	40.81	.....
	31	κ Virginis.....	RC	56.0	58.3	0.9	6.0	8.4	11.0	18.3	20.9	23.3	25.6	14. 7. 11.03		10.90	51.52	40.62		14. 7. 51.55
	32	☽ 1 L.....	RC	57.0	0.0	2.7	8.2	10.6	13.3	21.0	23.6	26.1	28.8	14. 47. 13.35		13.24				14. 49. 4.30
	33	Möiting A.....	RC	...	...	...	...	...	...	40.0	42.8	45.3	47.7	14. 48. 32.46		32.35				14. 49. 4.26
	34	♄ Libræ.....	RC	54.1	56.7	59.2	4.5	7.0	9.6	17.3	19.9	22.5	25.2	15. 6. 9.76		9.73	50.46	40.73		15. 6. 50.37
	35	Groombridge 2283.....	RC	17.3	27.2	33.9	46.1	52.3	57.6	7.3	11.2	16.6	28.2	15. 7. 21.28		15.91	56.61	40.70		.....
	36	θ Ophiuchi.....	RC	15.5	18.1	20.8	26.2	29.2	32.0	39.8	42.6	45.2	48.0	17. 15. 31.91		31.97	12.61	40.64		17. 16. 12.59
	37	θ Ophiuchi..... (E&E)	RC	30.8	47.4	3.9	20.4	36.3	52.9	9.4	...	...	...	17. 15. 31.83		31.89	12.61	40.72		.....
	38	σ Ophiuchi.....	RC	54.6	57.0	59.5	4.4	6.8	9.5	16.6	19.4	21.6	24.1	17. 21. 9.50		9.23	49.87	40.64		17. 21. 49.84
	39	σ Ophiuchi..... (E&E)	RC	13.2	28.1	43.0	58.0	12.7	27.3	42.4	...	...	...	17. 21. 9.47		9.20	49.87	40.67		.....
	40	Polaris.....	J	52.4	57.3	2.2	15.3	21.7	27.0	39.0	43.2	47.5	59.5	1. 23. 52.37		42.22	23.10	40.88	40.19	.....
	41	Venus 2 L.....	J	6.5	8.9	11.4	16.8	19.0	21.6	29.1	31.6	34.1	36.8	1. 43. 21.74		21.41			[- 0.25]	1. 43. 59.86
May 18	42	☉ 1 L.....	J	9.6	12.0	14.7	20.3	22.8	25.4	33.2	35.6	38.3	41.1	3. 36. 25.46						3. 38. 12.59
	43	☉ 2 L.....	J	24.4	26.9	29.4	35.0	37.5	40.3	47.7	50.3	53.1	55.6	3. 38. 40.19						
	44	Aldebaran.....	J	32.2	34.7	37.2	...	...	...	57.9	0.7	3.0	4.2	4. 29. 47.82		47.46	27.52	40.06		4. 30. 27.60
	45	γ Geminorum.....	J	17.7	20.3	22.8	28.2	30.7	33.5	40.9	43.3	45.8	48.4	6. 31. 33.32		32.96	13.08	40.12		6. 32. 13.08
	46	δ Geminorum.....	J	...	...	...	41.6	44.2	47.0	54.8	57.4	0.2	3.0	7. 13. 47.05		46.63	26.77	40.14		7. 14. 26.74
	47	β Canis Minoris.....	J	4.9	7.3	9.6	15.2	17.3	19.8	...	29.6	32.2	34.8	7. 21. 19.94		19.65	59.78	40.13		7. 21. 59.76
	48	Castor.....	J	34.9	37.6	40.8	46.7	49.2	...	1.0	3.9	6.9	9.8	7. 27. 52.50		52.00	32.16	40.16		7. 28. 32.11
	49	Procyon.....	J	24.8	27.3	29.6	34.9	37.2	39.9	46.9	49.3	51.9	54.5	7. 33. 39.79		39.51	19.66	40.15		7. 34. 19.62
	50	Pollux.....	J	33.2	36.2	39.0	44.7	47.3	50.3	58.5	1.4	4.1	7.0	7. 38. 50.35		49.89	30.06	40.17		7. 39. 30.00

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 27, 29, 37, and 39, $-108^{\circ}75'$; $-108^{\circ}75'$; $-108^{\circ}48'$; and $-108^{\circ}48'$.
 Corrections for passage of Semidiameter, Nos. 8, 11, 32, and 41, $-1^{\circ}77'$; $-1^{\circ}74'$; $+70^{\circ}42'$; and $-1^{\circ}72'$.

7. Observed over wire X with the transit-micrometer set to readings $35^{\circ}940$, $35^{\circ}970$, $36^{\circ}001$, $36^{\circ}637$, $36^{\circ}685$, $36^{\circ}727$, $36^{\circ}891$, $36^{\circ}965$, $37^{\circ}065$, $37^{\circ}080$.
 10. Observed over wire R with the transit-micrometer set to readings $34^{\circ}243$, $34^{\circ}403$, $34^{\circ}455$, $34^{\circ}510$, $34^{\circ}678$, $34^{\circ}738$, $34^{\circ}788$, $34^{\circ}883$, $34^{\circ}938$, $35^{\circ}010$.
 21. Observed over wire X with the transit-micrometer set to readings $37^{\circ}160$, $36^{\circ}968$, $36^{\circ}842$, $36^{\circ}540$, $36^{\circ}400$, $36^{\circ}306$, $36^{\circ}066$, $35^{\circ}952$, $35^{\circ}850$, $35^{\circ}600$.
 24. Observed over wire V with the transit-micrometer set to readings $35^{\circ}050$, $35^{\circ}148$, $35^{\circ}248$, $35^{\circ}424$, $35^{\circ}460$, $35^{\circ}548$, $35^{\circ}743$, $35^{\circ}778$, $35^{\circ}976$, $36^{\circ}141$.
 30. Observed over wire W with the transit-micrometer set to readings $35^{\circ}725$, $35^{\circ}665$, $35^{\circ}611$, $35^{\circ}506$, $35^{\circ}438$, $35^{\circ}411$, $35^{\circ}300$, $35^{\circ}274$, $35^{\circ}202$, $35^{\circ}118$.
 33. Reduction to D's centre at time of transit of Crater, $-8^{\circ}36'$. A further correction of $-0^{\circ}37'$ has been applied to reduce to time of transit of D's centre on true meridian.
 35. Observed over wire Q with the transit-micrometer set to readings $35^{\circ}560$, $35^{\circ}709$, $35^{\circ}848$, $36^{\circ}049$, $36^{\circ}156$, $36^{\circ}223$, $36^{\circ}404$, $36^{\circ}460$, $36^{\circ}549$, $36^{\circ}742$.
 40. Observed over wire O with the transit-micrometer set to readings $31^{\circ}960$, $32^{\circ}007$, $32^{\circ}049$, $32^{\circ}137$, $32^{\circ}216$, $32^{\circ}267$, $32^{\circ}358$, $32^{\circ}394$, $32^{\circ}433$, $32^{\circ}544$.

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[36]

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 [Losing Rate].	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
May 23	1	θ Aquilæ.....(E&E)	B	42.3	57.2	12.0	27.0	41.5	56.5	11.5	...	...	...	20. 5. 46.76	+ 5.12	46.64	25.62	38.98	39.22	.....
	2	β Capricorni	B	47.3	49.9	52.4	57.8	0.1	3.0	10.3	12.9	15.2	18.1	20. 15. 2.86	(- 8.75)	2.84	41.86	39.02	[- 0.28]	.....
	3	β Capricorni.....(E&E)	B	57.0	12.3	27.6	43.1	58.2	13.6	29.2	...	...	...	20. 15. 2.91	(- 2.06)	2.89	41.86	38.97		.....
	4	δ 2 L.....	B	29.0	31.2	34.1	39.5	42.0	44.9	52.6	55.1	57.8	0.6	20. 49. 44.84		44.83				20. 49. 17.78
May 25	5	$\odot$ 1 L.....	SD	12.2	15.0	17.6	23.2	25.6	28.4	36.1	38.7	41.4	44.1	4. 4. 28.39						.....
	6	$\odot$ 2 L.....	SD	28.1	30.8	33.5	39.0	41.3	44.1	51.9	54.6	57.4	59.9	4. 6. 44.22						.....
	7	Venus 2 L.....	JS	24.2	26.7	29.3	34.4	36.8	39.4	46.8	49.3	51.8	54.4	1. 49. 39.47	(- 11.08)	39.13			38.16	1. 50. 15.76
May 26	8	$\odot$ 1 L.....	JS	15.3	18.0	20.5	26.1	28.5	31.4	39.0	41.7	44.3	47.1	4. 8. 31.35						.....
	9	$\odot$ 2 L.....	JS	31.1	33.9	36.4	41.9	44.3	47.3	54.9	57.6	0.2	2.9	4. 10. 47.21						.....
	10	χ Leonis.....	JS	15.1	17.5	20.1	25.2	27.6	30.2	37.4	39.9	42.5	45.0	10. 59. 30.21						.....
	11	δ Leonis.....R.	JS	9.3	11.9	14.6	19.9	22.6	25.3	33.0	35.7	38.2	41.0	11. 8. 25.31						.....
	12	τ Leonis.....	JS	...	...	...	...	33.6	36.1	38.6	41.1	55.8	11.0	11. 22. 26.44						.....
	13	β Leonis.....	JS	20.8	23.3	26.1	31.1	33.6	36.3	43.6	46.4	48.8	51.4	11. 43. 36.30						.....
	14	ϵ Virginis.....	B	35.1	37.4	40.0	45.3	47.6	50.2	57.7	0.2	2.7	5.2	12. 56. 50.30						.....
	15	θ Virginis.....	B	10.2	12.8	15.2	20.4	22.8	25.3	32.6	35.0	37.5	40.1	13. 4. 25.35						.....
	16	Spica.....	JS	19.9	22.3	24.8	30.1	32.5	35.2	42.2	45.0	47.5	50.1	13. 19. 35.12						.....
	17	Polaris S.P.....	JS	28.5	34.1	38.7	55.3	0.6	6.7	18.4	22.6	28.0	32.5	13. 23. 42.76						.....
	18	m Virginis.....	JS	46.2	48.8	51.2	56.4	58.8	1.5	8.7	11.2	13.8	16.1	13. 36. 1.43						.....
	19	τ Virginis.....	JS	57.6	0.3	2.7	7.6	9.9	12.7	19.8	22.3	24.8	27.3	13. 56. 12.65						.....
	20	ρ Bootis.....	JS	51.0	53.7	56.6	2.5	5.4	8.2	16.7	19.6	22.4	25.4	14. 27. 8.33						.....
	21	Mars 1 L.....	JS	6.7	9.2	11.8	17.2	19.6	22.2	29.7	32.5	35.0	37.5	14. 34. 22.30						.....
	22	Mars 2 L.....	JS	7.9	10.3	12.9	18.2	20.6	23.4	30.9	33.5	36.0	38.7	14. 34. 23.42						.....
	23	ξ^2 Libræ.....	JS	45.6	48.2	50.6	55.9	58.3	1.0	8.3	10.8	13.4	15.7	14. 51. 0.94						.....
	24	ψ Bootis.....	WS	29.4	32.2	34.8	40.8	43.3	46.3	54.3	57.1	59.9	2.7	14. 59. 46.25						.....
	25	ι^1 Libræ.....	WS	...	58.9	1.3	7.0	9.4	12.2	19.8	22.4	24.9	...	15. 6. 12.15						.....
	26	α^2 Libræ.....	JS	52.7	55.2	57.6	2.9	5.4	8.1	15.5	18.2	20.7	23.4	15. 17. 8.13						.....
	27	β^1 Scorpii.....	JS	3.2	5.8	8.3	13.7	16.2	19.0	26.7	29.5	32.1	34.7	15. 59. 19.08						.....
	28	δ Ophiuchi.....	JS	31.3	33.6	36.3	41.3	43.6	46.5	53.5	56.0	58.4	1.0	16. 8. 46.30						.....
	29	δ Herculis.....	JS	43.0	45.6	48.3	54.0	56.7	59.6	7.6	10.2	13.0	15.8	17. 50. 59.55						.....
	30	δ Ursæ Minoris.....	JS	18.4	26.2	33.0	48.4	53.5	58.8	11.8	16.9	23.2	33.5	18. 2. 35.47						.....
	31	η Serpentis.....	JS	32.8	35.3	37.6	42.8	45.1	47.7	54.9	57.4	59.9	2.4	18. 15. 47.74						.....
	32	λ Sagittarii.....	JS	13.9	16.8	19.5	25.2	27.7	30.7	38.7	41.4	44.0	46.9	18. 21. 30.65						.....
	33	α Andromedæ.....	S	34.2	36.9	39.6	45.6	48.2	51.1	59.4	2.2	5.0	7.8	0. 2. 51.18	(- 11.74)	50.65	28.92	38.27	38.31	0. 3. 28.96
May 27	34	$\odot$ 1 L.....	S	18.2	20.7	23.2	28.8	31.5	34.2	41.6	44.3	46.9	49.9	4. 12. 34.09						.....
	35	$\odot$ 2 L.....	S	34.2	36.8	39.3	44.9	47.3	50.1	58.1	1.0	3.3	5.9	4. 14. 50.25						.....
	36	α Virginis.....	S	30.6	33.0	35.4	40.7	43.0	45.6	52.9	55.4	57.9	0.5	11. 59. 45.66						.....
	37	ϵ Corvi.....	S	21.6	24.2	26.8	...	...	...	48.2	50.9	53.5	12. 4. 37.73							.....
	38	Bradley 1672.....	S	56.6	20.9	31.6	40.5	49.4	0.0	8.1	15.8	23.2	31.7	12. 13. 56.56						.....
	39	η Virginis.....	S	11.3	13.7	16.1	21.3	23.5	26.2	33.4	36.0	38.3	40.9	12. 14. 26.22						.....
	40	β Corvi.....	S	31.2	33.8	36.5	41.9	44.6	47.3	55.2	57.8	0.6	3.3	12. 28. 47.39						.....
	41	35 Virginis.....	S	9.9	12.2	14.8	19.9	22.4	24.9	32.0	34.7	37.0	39.5	12. 42. 24.88						.....
	42	ϵ^1 Comæ.....	S	...	...	...	22.3	25.1	28.1	36.1	39.0	41.7	44.7	12. 46. 28.03						.....
	43	31 Virginis.....	S	35.3	37.8	40.3	45.5	47.7	50.6	57.7	0.5	3.0	5.4	12. 56. 50.54						.....
	44	Spica.....	S	19.6	22.0	24.7	29.9	32.2	34.8	42.3	44.9	47.3	49.8	13. 19. 34.91						.....
	45	Polaris S.P.....	S	15.6	32.1	44.3	55.8	5.8	16.0	23.4	32.2	43.0	53.5	13. 23. 41.90						.....
	46	τ Bootis.....	S	17.7	20.3	22.9	28.3	30.9	33.4	41.1	43.8	46.6	49.0	13. 49. 33.56						.....
	47	η Virginis.....	S	...	...	...	...	...	...	19.7	22.3	24.8	...	13. 56. 12.60						.....
	48	f Bootis.....	S	...	...	...	...	...	...	34.0	36.7	39.2	41.6	14. 21. 26.31						.....
	49	ρ Bootis.....	S	...	...	...	2.5	5.2	8.2	16.7	19.6	22.2	25.2	14. 27. 8.25						.....
	50	δ^1 Libræ.....	S	2.3	5.0	7.6	13.0	15.3	17.7	25.5	28.0	30.8	33.3	15. 22. 18.01						.....
	51	δ Ophiuchi.....	S	31.2	33.5	35.9	41.0	43.4	46.2	53.2	55.8	58.3	0.7	16. 8. 46.07						.....

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 1 and 3, - 100^s.24 and - 100^s.24.
Corrections for passage of Semidiameter, Nos. 4 and 7, - 66^s.04 and - 1^s.51.

- 4. Correction to R.A. on true meridian + 0^s.01. Faint.
- 5, 6. Kept for diameter only. No determination of clock error having been made within 24 hours of the observation. Cloudy.
- 12. Observed over wires U, V, W, X, Y, and Z.
- 17. Observed over wire V with the transit-micrometer set to readings 36^s.388, 36^s.351, 36^s.303, 36^s.147, 36^s.105, 36^s.067, 35^s.988, 35^s.942, 35^s.882, 35^s.846.
- 22. A correction of + 0^s.02 for defect of illumination has been applied in forming the concluded transit.
- 30. Observed over wire O with the transit-micrometer set to readings 34^s.042, 34^s.227, 34^s.416, 34^s.757, 34^s.900, 35^s.026, 35^s.336, 35^s.477, 35^s.626, 35^s.863.
- 38. Observed over wire W with the transit-micrometer set to readings 35^s.946, 36^s.243, 36^s.370, 36^s.494, 36^s.609, 36^s.745, 36^s.836, 36^s.930, 37^s.024, 37^s.140.
- 45. Observed over wire P with the transit-micrometer set to readings 35^s.274, 35^s.150, 35^s.016, 34^s.920, 34^s.837, 34^s.754, 34^s.716, 34^s.640, 34^s.516, 34^s.452.

1907GOAMM.67A...1C

1997GOANW.61

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 ^h Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).					
				s	s	s	s	s	s	s	s	s	s								
May 27	1	δ Aquilæ.....	S	51.4	53.6	56.1	...	3.8	6.5	13.5	16.1	18.6	21.0	19. 20. 6.36	+ 5.12		6.02	44.24	38.22	38.31	19. 20. 44.09
	2	α Vulpeculæ.....	S	53.0	55.4	58.1	3.9	6.7	9.2	17.3	20.0	22.5	25.3	19. 24. 9.31	- 11.74		8.81	46.91	38.10	- 0.30	19. 24. 46.88
	3	α Andromedæ.....	E	34.3	37.2	40.0	4.5	9.4	5.1	5.5	5.9	6.2	5.4	8.0	0. 2. 51.47	- 3.11		51.07	28.95	37.88	
May 28	4	⊙ 1 L.....	L	21.8	24.5	26.8	32.5	35.0	37.9	45.6	48.3	51.0	55.7	4. 16. 37.88			45.70	16.61	37.60	37.67	4. 18. 23.32
	5	⊙ 2 L.....	L	38.1	40.7	43.2	48.8	51.3	54.1	2.0	4.6	7.2	9.9	4. 18. 54.16							
	6	β Tauri.....	L	22.4	25.0	27.9	33.8	36.4	39.6	47.5	50.3	53.3	56.1	5. 19. 39.41							
	7	δ 2 L.....	RC	12.1	14.2	17.0	22.2	24.8	27.2	34.6	37.3	39.6	42.1	0. 51. 27.26			39.01			37.55	0. 51. 3.68
	8	β Andromedæ.....	RC	29.5	32.5	35.4	41.6	44.7	47.8	56.6	59.5	2.7	5.6	1. 3. 47.78			27.16			- 0.24	1. 4. 24.84
	9	Polaris.....	RC	45.2	51.5	56.4	10.3	17.1	22.6	36.7	43.5	50.7	10.1	1. 24. 9.14			47.30	24.79	37.49		.....
																	53.64	31.13	37.49		.....
																					
	May 29	10	⊙ 1 L.....	RC	26.0	28.5	31.3	36.8	39.3	42.1	49.8	52.3	54.9	57.7	4. 20. 42.03	+ 4.63		49.72	13.86	37.43	36.84	4. 22. 27.23
11		⊙ 2 L.....	RC	42.3	45.0	47.6	53.0	55.6	58.5	6.1	8.9	11.5	14.2	4. 22. 58.43	- 13.89						
12		β Leonis.....	RC	21.3	23.9	26.5	31.6	34.2	36.9	44.3	46.9	49.4	52.0	11. 43. 36.86	+ 0.69						
13		π Virginis.....	RC	9.3	11.7	14.2	19.3	21.7	24.3	31.6	34.2	36.6	39.0	11. 55. 24.35			36.43				11. 44. 13.86
14		ο Virginis.....	RC	31.1	33.6	36.0	41.2	43.5	46.3	53.4	56.1	58.6	1.1	11. 59. 46.25			24.03	1.40	37.37		11. 56. 1.46
15		Bradley 1672.....	RC	49.4	58.1	6.5	17.9	25.6	38.3	54.7	0.2	6.6	17.6	12. 14. 2.50			45.90	23.34	37.44		12. 0. 23.33
16		δ² Corvi.....	RC	5.4	7.8	10.6	15.9	18.3	21.0	28.4	31.0	33.6	36.2	12. 24. 20.98			47.58	23.98	36.40		.....
17		ρ Virginis.....	RC	13.6	16.1	18.6	23.8	26.2	28.9	36.1	38.7	41.1	43.6	12. 36. 28.83			20.98	58.38	37.40		12. 24. 58.41
18		θ Virginis.....	RC	11.2	13.6	16.1	21.1	23.5	26.3	33.2	35.9	38.2	40.8	13. 4. 26.15			28.46	5.88	37.42		12. 37. 5.88
19		Polaris S.P.....	RC	6.3	15.9	21.2	37.2	42.1	46.6	0.3	5.9	13.1	24.8	13. 23. 35.00			25.99	3.40	37.41		13. 5. 3.41
20		τ Virginis.....	RC	58.3	0.6	3.0	8.2	10.6	13.1	20.3	23.0	25.4	27.7	13. 56. 13.17			55.61	31.54	35.93		.....
21		Mars 1 L.....	RC	51.5	54.0	56.5	1.7	4.3	6.9	14.4	16.9	19.4	22.1	14. 31. 6.93			12.91	50.39	37.48		13. 56. 50.32
22		Mars 2 L.....	RC	52.8	55.2	57.6	3.1	5.5	8.2	15.6	18.1	20.7	23.3	14. 31. 8.20			7.56	4.34	41.81	37.47	37.31
23		α Coronæ.....	RC	48.2	50.9	53.4	59.3	2.1	5.0	12.9	15.8	18.6	21.2	15. 30. 4.91							
24		Venus 2 L.....	W	24.0	26.3	28.8	34.1	36.5	39.1	46.6	49.0	51.6	54.1	1. 55. 39.17			38.80				1. 56. 14.68
May 31	25	⊙ 2 L.....	JS	...	...	57.5	3.1	5.6	8.2	16.1	18.8	...	...	4. 31. 8.36	- 13.32		7.83			36.84	4. 30. 36.46
	26	Castor.....	JS	38.2	41.1	44.1	...	...	...	...	7.3	10.2	13.1	7. 27. 55.89	- 0.72		55.24	32.04	36.80		.....
	27	Procyon.....	JS	...	...	...	38.2	40.6	43.1	50.3	52.9	55.3	57.7	7. 33. 43.14			42.80	19.55	36.75		.....
	28	Pollux.....	JS	36.9	39.6	42.3	48.1	50.7	53.8	1.8	4.9	7.3	10.3	7. 38. 53.75			53.16	29.93	36.77		.....
	29	δ Virginis.....	JS	59.2	1.6	4.1	9.3	11.6	14.2	21.3	23.6	26.2	28.6	12. 50. 14.12			13.79	50.47	36.68		.....
	30	Polaris S.P.....	JS	54.1	0.2	5.6	12.8	28.7	34.4	41.1	54.3	59.8	7.1	13. 23. 39.77			56.08	33.27	37.19		.....
June 1	31	⊙ 1 L.....	E	40.8	43.4	46.0	51.7	54.2	56.9	4.6	7.4	10.1	12.9	4. 32. 56.96			56.43			36.99	4. 34. 41.67
	32	Spica.....	E	...	...	...	...	...	...	36.3	43.4	46.1	48.5	13. 19. 36.24			36.09	12.94	36.85	- 0.30	.....
	33	Polaris S.P.....	E	12.7	17.5	24.1	42.0	46.7	57.1	2.1	7.5	23.4	30.3	13. 23. 41.54			57.85	34.19	36.34		.....
	34	m Virginis.....	E	47.3	50.1	52.3	57.6	59.9	2.7	9.8	12.4	14.8	17.3	13. 36. 2.58			2.39	39.23	36.84		.....
	35	η Boötis.....	E	...	...	...	...	...	...	42.5	45.2	47.6	50.4	13. 49. 34.92			34.43	11.25	36.82		.....
	36	τ Virginis.....	E	58.9	1.3	3.8	9.0	11.2	13.9	21.1	23.6	26.1	28.7	13. 56. 13.91			13.61	50.37	36.76		.....
	37	ρ Boötis.....	E	52.2	55.0	57.8	3.9	6.7	9.6	17.8	20.9	23.8	26.7	14. 27. 9.60			8.97	45.81	36.84		.....
	38	α Serpentis.....	E	45.7	48.2	50.7	55.9	58.2	0.8	8.1	10.6	13.0	15.6	15. 39. 0.84			0.48	37.28	36.80		.....
	39	γ Herculis.....	E	53.6	56.1	58.9	...	...	9.4	...	19.7	22.3	24.9	16. 17. 9.44			8.95	45.72	36.77		.....
																					
June 2	40	⊙ 1 L.....	B	46.6	49.2	51.9	57.4	0.1	2.9	10.8	13.3	16.1	18.7	4. 37. 2.86			10.73	19.23	36.04	36.69	4. 38. 47.36
	41	⊙ 2 L.....	B	3.4	6.1	8.8	14.4	16.9	19.6	27.3	30.2	32.8	35.4	4. 39. 19.65							
June 3	42	⊙ 1 L.....	W	53.2	55.6	58.2	3.9	6.4	9.3	17.0	19.7	22.3	25.1	4. 41. 9.23			43.19	19.23	36.04	36.23	4. 42. 53.32
	43	⊙ 2 L.....	W	10.0	12.6	15.2	20.7	23.2	26.0	33.9	36.8	39.3	41.7	4. 43. 26.10							
	44	Regulus.....	W	...	...	...	...	...	...	26.4	28.9	44.1	10. 2. 43.60								
	45	γ¹ Leonis.....	W	53.0	55.6	58.2	3.6	6.2	9.0	16.5	19.3	21.8	24.6	10. 14. 8.94							
June 8	46	⊙ 1 L.....	B	29.6	32.2	34.7	...	...	...	56.3	59.0	1.5	5. 1. 45.76	+ 4.86		45.39			35.09	5. 3. 29.12	
	47	Pollux.....	B	38.3	41.0	43.9	49.6	52.2	55.2	3.4	6.5	9.1	11.7	7. 38. 55.27	- 10.98		54.86	29.90	35.04	- 0.27	7. 39. 29.86

Corrections for passage of Semidiameter, Nos. 7, 24, 25, 31, and 46, - 61.802; - 1.841; - 68.16; + 68.31; and + 68.70.

9. Observed over wire R with the transit-micrometer set to readings 34^r813, 34^r910, 34^r930, 35^r060, 35^r148, 35^r160, 35^r300, 35^r338, 35^r370, 35^r547.
 15. Observed over wire T with the transit-micrometer set to readings 36^r180, 36^r314, 36^r420, 36^r546, 36^r640, 36^r768, 36^r888, 37^r077, 37^r142, 37^r287.
 19. Observed over wire T with the transit-micrometer set to readings 37^r367, 37^r297, 37^r252, 37^r103, 37^r058, 37^r040, 36^r920, 36^r870, 36^r797, 36^r701.
 22. A correction of + 0.803 for defect of illumination has been applied in forming the concluded transit.
 30. Observed over wire T with the transit-micrometer set to readings 37^r022, 36^r939, 36^r829, 36^r856, 36^r714, 36^r660, 36^r606, 36^r480, 36^r432, 36^r403.
 33. Observed over wire U with the transit-micrometer set to readings 36^r010, 35^r971, 35^r925, 35^r760, 35^r717, 35^r611, 35^r575, 35^r539, 35^r426, 35^r349.
 40, 41. Faint; observed through cloud.
 44. Observed over wires W, X, and Y. Reading of transit-micrometer 47^r600, reduced to normal reading in forming the concluded transit.
 45. Faint; cloudy.
 46. Very 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].	Seconds of Transit Cor- rected.	Tabular R.A. of Known Stars.	Clock appa- rently Slow.	Adopted Clock Slow at oh Sideral and (Losing Rate).	Apparent R.A. of Centre from the Observation. h m s
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
June 8	1	η Virginis.....	B	14.1	16.6	19.0	24.2	26.4	29.0	36.2	38.9	41.3	43.6	12. 14. 29.08	+ 4.86	28.92	3.91	34.99	35.09	12. 15. 3.87
	2	δ ² Corvi.....	B	7.6	10.4	12.8	18.1	20.6	23.3	30.8	33.4	35.9	38.6	12. 24. 23.31	(- 10.98)	23.32	58.28	34.96	[- 0.27]	12. 24. 58.27
	3	β Corvi.....	B	33.9	36.6	39.2	44.9	47.3	50.3	58.2	0.8	3.6	6.3	12. 28. 50.28	[- 0.39]	50.39	25.25	34.86		12. 29. 25.34
	4	δ Virginis.....	B	0.6	3.1	5.6	10.7	13.0	15.6	22.9	25.3	27.6	30.3	12. 50. 15.62		15.43	50.40	34.97		12. 50. 50.38
	5	Polaris S.P.	B	24.7	55.5	2.3	11.1	48.2	52.9	57.7	9.5	20.4	29.2	13. 23. 54.69		5.28	40.39	35.11		.....
	6	94 Virginis.....	B	27.7	30.1	32.7	37.9	40.2	42.9	50.1	52.6	55.1	57.6	14. 0. 42.85		42.78	17.67	34.89		14. 1. 17.71
	7	Arcturus.....	B	30.8	33.3	36.0	41.2	43.8	46.7	54.3	57.0	59.6	2.3	14. 10. 46.66		46.32	21.24	34.92		14. 11. 21.25
June 13	8	⊙ 1 L.....	E	12.7	15.3	18.1	23.6	26.1	29.0	36.7	39.3	42.1	44.9	5. 22. 28.95	+ 4.78	37.49			33.63	5. 24. 11.06
	9	⊙ 2 L.....	E	30.3	33.2	35.4	41.4	43.9	46.8	54.5	57.4	0.0	2.8	5. 24. 46.74	(- 11.30)				[- 0.26]	
	10	Regulus.....	JS	30.9	33.4	35.9	41.2	43.5	46.2	53.5	56.1	58.7	1.2	10. 2. 46.22	[+ 0.11]					
	11	γ ¹ Leonis.....	JS	56.0	58.5	1.0	6.4	8.8	11.6	19.3	21.9	24.4	27.3	10. 14. 11.68		45.96	19.12	33.16		.....
	12	Polaris S.P.	E	35.0	43.7	12.4	24.2	28.7	31.9	46.8	51.0	...	...	13. 23. 59.56		11.34	44.50	33.16		.....
	13	ζ Virginis.....	E	4.4	6.9	9.2	14.3	16.7	19.3	26.5	29.0	31.5	34.0	13. 29. 19.33		12.19	44.88	32.69	33.63	.....
	14	τ Bootis.....	E	57.4	59.9	2.4	7.9	10.4	13.1	20.7	23.3	26.0	28.5	13. 42. 13.12		19.19	52.65	33.46		.....
	15	δ 1 L.....	E	14.3	16.8	19.3	24.7	27.0	29.8	37.4	39.9	42.7	45.1	14. 21. 29.86		12.81	46.29	33.48		14. 23. 12.32
	16	ε ² Bootis.....	E	1.9	4.7	7.6	13.4	16.0	19.0	26.9	29.7	32.6	35.3	14. 40. 18.88		20.84				.....
	17	ε ² Bootis..... (E&E)	E	44.1	1.0	17.9	34.5	51.0	7.5	24.6	...	...	...	14. 40. 18.98		18.47	51.96	33.49		.....
	18	α Libræ.....	E	50.3	52.9	55.3	0.7	3.2	5.9	13.3	16.0	18.5	21.0	14. 45. 5.87		18.57	51.96	33.39		.....
	19	ψ Bootis.....	E	34.3	37.1	39.8	45.5	48.3	51.1	59.3	2.1	4.9	7.6	14. 59. 51.17		5.91	39.38	33.47		.....
	20	ψ Bootis..... (E&E)	E	16.4	33.1	50.0	6.9	...	39.9	57.0	...	...	...	14. 59. 51.25		50.76	24.23	33.47		.....
	21	Groombridge 2283.....	E	7.3	14.5	20.7	40.3	46.1	59.8	4.6	10.9	30.3	35.6	15. 7. 23.99		50.84	24.23	33.39		.....
	22	λ Ophiuchi.....R.	E	20.1	22.7	25.2	30.3	32.7	35.2	42.5	45.0	47.3	49.9	16. 25. 35.24		16.96	50.00	33.04		.....
	23	ζ Ophiuchi.....R.	E	8.7	11.1	13.4	18.8	21.0	23.6	31.1	33.7	36.2	38.7	16. 31. 23.79		36.08	9.43	33.35		.....
	24	α ¹ Herculis.....	E	32.5	34.9	37.4	42.8	45.2	47.9	55.2	57.8	0.3	3.0	17. 9. 47.86		24.50	57.90	33.40		.....
	25	δ Ursæ Minoris.....	E	44.3	50.1	56.8	19.2	23.4	35.6	39.6	45.4	5.7	12.3	18. 2. 44.57		47.58	21.07	33.49		.....
	26	72 Ophiuchi.....	E	4.6	7.0	9.3	14.6	16.9	19.7	27.0	29.3	32.1	34.6	18. 2. 19.67		39.47	12.99	33.52		.....
	27	Venus 2 L.....	B	19.8	22.5	25.0	30.2	32.5	35.3	42.5	45.2	47.6	50.2	2. 30. 35.24		19.43	52.93	33.50		.....
	28	α Ceti.....	B	30.4	32.9	35.4	40.6	42.9	45.5	52.7	55.2	57.6	0.1	2. 56. 45.48	(- 11.65)	34.95			33.37	2. 31. 7.16
	29	Aldebaran.....	B	39.3	41.7	44.3	49.6	52.1	54.9	2.3	4.9	7.5	10.0	4. 29. 54.82	(- 0.16)	45.27	18.60	33.33	[- 0.27]	
	30	Mercury 1 L.....	B	52.3	...	57.6	...	...	8.3	...	19.0	...	24.2	4. 37. 8.40		54.49	27.80	33.31		
	31	Mercury 2 L.....	B	...	55.4	...	3.6	6.0	...	16.7	...	22.0	...	4. 37. 8.91		8.28				4. 37. 41.60
	32	Rigel.....	B	9.3	11.9	14.3	19.4	21.8	24.6	31.7	34.2	36.9	39.4	5. 9. 24.51		24.42	57.77	33.35		5. 9. 57.73
June 14	33	⊙ 1 L.....	B	22.0	24.7	27.3	33.0	35.4	38.3	45.9	48.8	51.4	54.2	5. 26. 38.27		46.77				5. 28. 20.08
	34	⊙ 2 L.....	B	39.7	42.2	45.0	50.6	53.2	56.2	3.7	6.7	9.3	12.1	5. 28. 56.04						
	35	Castor.....	B	41.6	44.4	47.3	53.3	56.2	59.3	7.7	10.9	13.8	...	7. 27. 59.28						
	36	Procyon.....	B	31.4	33.9	36.3	41.5	43.8	46.5	53.6	56.1	58.7	1.1	7. 33. 46.45		58.80	32.00	33.20		7. 28. 32.09
	37	Pollux.....	B	40.1	42.9	45.5	51.3	54.2	57.2	5.2	8.1	10.9	13.6	7. 38. 57.08		46.23	19.51	33.28		7. 34. 19.51
	38	Regulus.....	B	30.9	33.3	35.7	41.2	43.5	46.1	53.5	56.1	58.7	1.1	10. 2. 46.17		56.64	29.89	33.25		7. 39. 29.92
	39	γ ¹ Leonis.....	B	55.6	58.1	0.9	6.3	8.9	11.6	19.2	21.9	24.6	27.2	10. 14. 11.59		45.88	19.11	33.23		10. 3. 19.14
	40	δ Virginis.....	B	2.3	4.9	7.2	12.3	14.8	17.3	24.6	27.0	29.4	32.0	12. 50. 17.33		11.22	44.49	33.27		10. 14. 44.47
	41	ε Virginis.....	B	40.0	42.4	44.9	50.1	52.5	55.3	2.4	5.1	7.5	10.0	12. 56. 55.18		17.12	50.34	33.22		12. 50. 50.35
	42	ε Virginis..... (E&E)	B	25.1	40.3	55.5	10.7	25.5	40.7	56.0	...	...	...	12. 56. 55.26		54.90	28.12	33.22		12. 57. 28.12
	43	Spica.....	B	24.3	27.0	29.3	34.7	37.0	39.4	47.0	49.4	52.1	54.5	13. 19. 39.63		54.98	28.12	33.14		.....
	44	Polaris S.P.	B	28.4	33.6	38.8	42.9	49.4	9.3	14.7	19.9	25.0	31.4	13. 23. 59.69		39.59	12.84	33.25		13. 20. 12.81
	45	τ Bootis.....	B	57.6	0.3	2.8	8.2	10.7	13.4	20.9	23.4	26.1	28.8	13. 42. 13.38		12.61	45.94	33.33		1. 24. 45.83
	46	ε Cassiopeiæ S.P. ....R.	B	29.6	35.0	40.3	46.1	...	...	...	...	...	...	13. 47. 1.87		13.04	46.28	33.24		13. 42. 46.26
	47	ε Cassiopeiæ S.P.	B	...	...	...	...	...	6.3	11.4	22.9	28.2	33.7	13. 47. 0.53		0.42				1. 47. 33.63
	48	94 Virginis.....	B	...	...	...	...	51.8	54.3	56.8	59.3	14.2	29.5	14. 0. 44.55		0.52				1. 47. 33.73
	49	3 Ursæ Minoris.....R.	B	37.6	47.0	56.1	16.1	25.3	35.3	...	...	...	...	14. 5. 35.38		44.47	17.63	33.16		14. 1. 17.68
	50	3 Ursæ Minoris.....	B	...	...	...	...	...	8.7	18.3	27.8	37.3	14. 5. 14.80		39.39					14. 6. 12.60
	51	Arcturus.....	B	32.5	35.0	37.6	43.2	45.6	48.2	55.8	58.6	1.3	3.8	14. 10. 48.32		39.29				14. 6. 12.50
																47.95	21.20	33.25		14. 11. 21.16

Corrections to the times by Hardy for reduction to Sideral Standard, applied to form Concluded Transit, Nos. 17, 20, and 42, -75^m55^s - 75^m55^s and -75^m43^s.
 Corrections for passage of Semidiameter, Nos. 15 and 27, +69^m00^s and -1^m13^s.

5. Observed over wire X with the transit-micrometer set to readings 38^m110, 37^m850, 37^m800, 37^m722, 37^m398, 37^m360, 37^m315, 37^m210, 37^m130, 37^m052.
 5, 6, 7. Cloudy.
 12. Observed over wire T with the transit-micrometer set to readings 35^m812, 35^m759, 35^m495, 35^m383, 35^m347, 35^m327, 35^m189, 35^m151.
 15. Correction to R.A. on true meridian +0^m01.
 21. Observed over wire P with the transit-micrometer set to readings 35^m299, 35^m422, 35^m505, 35^m865, 35^m965, 36^m197, 36^m261, 36^m383, 36^m703, 36^m782.
 25. Observed over wire Q with the transit-micrometer set to readings 35^m365, 35^m498, 35^m697, 36^m217, 36^m316, 36^m607, 36^m721, 36^m834, 37^m334, 37^m450.
 28. Faint.
 30. A correction of -0^m04 for defect of illumination has been applied in forming the concluded transit.
 35. Faint; hazy.
 44. Observed over wire T with the transit-micrometer set to readings 35^m866, 35^m824, 35^m773, 35^m738, 35^m698, 35^m511, 35^m470, 35^m429, 35^m387, 35^m334.
 48. Observed over wires U, V, W, X, Y, and Z.

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

1907G0A00W . 67

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 a Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
June 22	1	λ Aquarii	W	55.2	57.5	59.9	5.2	7.6	10.2	17.4	20.0	22.7	25.0	22. 47. 10.23	+ 4.63	10.20	40.91	30.71	31.04	.....
	2	δ 2 L.	W	1.7	4.3	6.8	12.4	14.6	17.1	24.7	27.2	29.6	32.3	23. 0. 17.23	(- 12.90)	17.20			[- 0.34]	22. 59. 45.44
	3	γ Piscium.....	W	30.3	32.8	35.1	40.4	42.7	45.2	52.5	55.0	57.4	59.8	23. 11. 45.27	[+ 1.90]	45.10	15.74	30.64		.....
	4	Venus 2 L.	SD	15.6	18.2	20.5	26.1	28.3	31.0	38.4	41.0	43.6	46.0	2. 58. 31.03	(- 12.65)	30.73			30.85	2. 59. 0.53
	5	Rigel	SD	12.0	14.4	17.0	22.0	24.6	27.0	34.3	36.8	39.2	41.8	5. 9. 27.07	[+ 1.69]	27.04	57.88	30.84	[- 0.33]	5. 9. 57.82
	6	α Orionis	SD	15.7	18.2	20.7	25.7	28.3	30.8	38.0	40.7	43.2	45.5	5. 49. 30.84		30.62	1.39	30.77		5. 50. 1.39
June 23	7	⊙ 1 L.	SD	49.2	51.9	54.8	0.3	2.8	5.7	13.5	16.2	18.8	21.5	6. 4. 5.64		14.19				6. 5. 44.96
	8	⊙ 2 L.	SD	7.2	9.8	12.4	18.1	20.8	23.6	31.4	34.2	37.0	39.6	6. 6. 23.58						
	9	Procyon.....	SD	33.9	36.3	38.9	43.7	46.4	48.8	55.9	58.6	1.0	3.5	7. 33. 48.86			48.66	19.52	30.86	7. 34. 19.41
	10	Pollux.....	SD	42.7	45.3	48.2	53.8	56.8	59.5	7.7	10.7	13.3	16.2	7. 38. 59.60			59.11	29.89	30.78	7. 39. 29.86
	11	β ² Corvi	SD	11.7	14.4	16.9	22.3	24.7	27.4	34.8	37.5	40.1	42.7	12. 24. 27.41			27.50	58.11	30.61	12. 24. 58.18
	12	β Corvi.....	SD	...	40.7	43.3	49.0	51.5	54.3	...	...	...	...	12. 28. 54.31			54.51	25.07	30.56	12. 29. 25.19
	13	Spica.....	SD	27.0	29.4	31.7	37.1	39.5	42.1	49.4	52.0	54.5	57.0	13. 19. 42.13			42.14	12.76	30.62	13. 20. 12.81
	14	Polaris S.P.	SD	53.8	58.5	1.6	5.0	8.4	13.6	17.2	21.0	25.0	29.7	13. 24. 3.25			22.84	54.67	31.83	.....
	15	τ Bootis	SD	...	...	...	...	...	...	23.4	26.1	28.7	31.3	13. 42. 15.94			15.58	46.20	30.62	13. 42. 46.24
	16	Arcturus	R.	SD	33.4	36.0	38.6	43.9	46.5	49.4	57.0	59.6	2.2	5.0	14. 10. 49.32		50.48	21.12	30.64	14. 11. 21.13
	17	ε ² Bootis	SD	4.7	7.6	10.3	16.1	18.7	21.6	29.6	32.7	35.4	38.2	14. 40. 21.66		21.19	51.87	30.68	14. 40. 51.84	
	18	α Librae	SD	53.1	55.6	58.1	3.5	5.9	8.7	16.1	18.7	21.2	23.8	14. 45. 8.63		8.72	39.33	30.61	14. 45. 39.37	
	19	ξ ² Librae	SD	52.9	55.3	57.6	3.1	5.3	8.0	15.3	18.0	20.3	23.0	14. 51. 8.04		8.05	38.72	30.67	14. 51. 38.70	
	20	ψ Bootis	SD	37.0	39.8	42.7	48.4	51.2	54.0	2.0	4.9	7.7	10.4	14. 59. 53.98		53.51	24.16	30.65	15. 0. 24.15	
	21	ι ¹ Librae	SD	3.8	6.6	9.1	14.6	17.0	19.8	27.2	30.3	32.7	35.2	15. 6. 19.76		19.91	50.49	30.58	15. 6. 50.55	
	22	Groombridge 2283.....	SD	30.3	34.9	40.6	0.1	4.1	10.3	15.5	30.1	35.2	50.3	15. 7. 25.41		14.90	46.11	31.21	.....	
	23	κ Ophiuchi.....	SD	26.8	29.3	31.8	37.0	39.5	42.2	49.3	52.0	54.5	56.9	16. 52. 42.09		41.83	12.46	30.63	16. 53. 12.45	
	24	κ Ophiuchi.....(E&E)	SD	...	24.1	39.2	54.4	9.3	24.4	...	...	...	...	16. 52. 41.98		41.72	12.46	30.74	.....	
	25	ε Herculis.....	SD	53.9	56.8	59.6	5.6	8.2	11.3	19.5	22.6	25.5	28.4	16. 56. 11.32		10.80	41.44	30.64	16. 56. 41.42	
	26	ε Herculis.....(E&E)	SD	31.3	48.9	6.2	23.7	40.9	58.0	15.2	...	...	...	16. 56. 11.18		10.66	41.44	30.78	.....	
	27	α ¹ Herculis.....	SD	...	...	...	...	...	...	58.1	0.8	3.3	5.9	17. 9. 50.78		50.47	21.13	30.66	17. 10. 21.08	
	28	σ Ophiuchi.....	SD	4.9	7.3	9.7	15.0	17.2	19.9	27.1	29.6	32.0	34.7	17. 21. 19.89		19.71	50.31	30.60	17. 21. 50.32	
	29	β Ophiuchi.....	SD	3.6	6.0	8.5	13.6	16.0	18.6	25.7	28.3	30.8	33.3	17. 38. 18.59		18.40	49.04	30.64	17. 38. 49.01	
	30	μ Herculis.....	SD	59.6	2.3	5.2	10.7	13.4	16.5	24.6	27.4	30.2	33.0	17. 42. 16.47		15.99	46.64	30.65	17. 42. 46.60	
	31	μ Herculis.....(E&E)	SD	38.0	55.1	12.0	28.8	45.2	2.1	19.3	...	...	...	17. 42. 16.38		15.90	46.64	30.74	.....	
	32	89 Herculis.....	SD	...	...	56.1	1.8	4.6	7.3	15.3	18.1	...	...	17. 51. 7.35		6.89	37.53	30.64	17. 51. 37.49	
June 24	33	ε Virginis.....	S	42.8	45.2	47.6	52.9	55.3	58.1	5.3	7.8	10.4	12.9	12. 56. 57.99	(- 11.95)	57.79	28.02	30.23	30.50	.....
	34	Polaris S.P.	S	7.6	21.0	29.4	44.7	56.8	6.0	15.0	24.3	33.6	43.0	13. 24. 5.52	[+ 2.57]	25.19	55.63	30.44	[- 0.30]	.....
	35	ξ Virginis.....	S	7.4	9.9	12.4	17.3	19.6	22.4	29.5	32.1	34.7	37.0	13. 29. 22.38		22.33	52.55	30.22		.....
	36	τ Bootis.....	JS	0.9	3.4	5.9	11.3	13.7	16.6	24.1	26.8	29.2	31.9	13. 42. 16.54		16.26	46.19	29.93	30.11	.....
	37	τ Bootis.....(E&E)	JS	41.1	56.4	12.4	27.6	43.2	58.5	14.4	...	...	...	13. 42. 16.30		16.02	46.19	30.17		.....
	38	η Bootis.....	JS	25.5	28.2	30.8	36.1	38.7	41.5	48.9	51.5	54.2	56.9	13. 49. 41.39		41.11	11.06	29.95		.....
	39	η Bootis.....(E&E)	JS	5.4	21.1	37.1	52.5	8.1	23.5	39.6	...	...	...	13. 49. 41.11		40.83	11.06	30.23		.....
	40	ψ Bootis.....	S	37.3	40.1	42.8	48.6	51.2	54.1	2.1	5.2	7.7	10.5	14. 59. 54.13		53.74	24.15	30.41	30.50	.....
	41	Groombridge 2283.....	S	35.1	47.7	55.0	3.2	12.7	22.5	30.7	38.0	48.3	57.5	15. 7. 25.66		15.23	45.74	30.51		.....
	42	ε Serpentis	S	21.5	24.0	26.4	31.6	33.9	36.6	43.7	46.4	48.8	51.3	15. 45. 36.57		36.46	6.82	30.36		.....
	43	β ¹ Scorpii	S	10.9	13.4	16.1	21.4	24.0	26.7	34.1	36.8	39.4	42.1	15. 59. 26.65		26.88	57.09	30.21		.....
	44	ε Herculis.....	S	54.1	57.0	59.6	5.9	8.6	11.6	19.9	22.9	25.6	28.6	16. 56. 11.56		11.12	41.44	30.32		.....
	45	σ Ophiuchi.....	S	...	7.5	10.0	15.2	17.3	20.2	27.3	30.1	32.4	...	17. 21. 20.15		19.93	50.32	30.39		.....
June 26	46	⊙ 1 L.	J	...	...	...	...	32.4	35.2	43.1	45.9	48.7	51.2	6. 16. 35.30	+ 4.52	43.67			29.38	6. 18. 12.97
	47	⊙ 2 L.	J	...	...	...	52.8	0.8	3.4	6.2	8.9	25.0	41.5	6. 18. 52.91	(- 12.74)					
	48	α Serpentis.....	J	53.2	55.6	58.2	3.2	5.9	8.3	15.4	18.1	20.5	23.0	15. 39. 8.30	[+ 1.46]		8.06	37.27	29.21	.....
	49	ε Serpentis.....	J	22.8	25.2	27.6	32.9	35.0	37.6	45.0	47.4	50.0	52.7	15. 45. 37.77			37.56	6.58	29.02	.....
	50	ε Serpentis.....(E&E)	J	34.2	49.3	...	...	...	48.9	3.8	...	...	...	15. 45. 37.58			37.37	6.58	29.21	.....
	51	γ Serpentis.....	J	21.3	23.8	26.6	31.7	34.3	37.0	44.5	47.2	49.7	52.3	15. 51. 37.00			36.65	5.84	29.19	.....

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 24, 26, 31, 37, 39, and 50, -72^s.45: -72^s.45: -72^s.42: -71^s.51: -71^s.51: and -101^s.64.
Corrections for passage of Semidiameter, Nos. 2 and 4, -62^s.47 and -1^s.01.

- 4. Very unsteady.
- 9. Extremely diffused.
- 14. Observed over wire T with the transit-micrometer set to readings 35^s.178, 35^s.140, 35^s.117, 35^s.080, 35^s.037, 34^s.988, 34^s.970, 34^s.932, 34^s.898, 34^s.868.
- 22. Observed over wire Q with the transit-micrometer set to readings 35^s.710, 35^s.799, 35^s.871, 36^s.221, 36^s.277, 36^s.377, 36^s.472, 36^s.695, 36^s.812, 37^s.070.
- 34. Observed over wire S with the transit-micrometer set to readings 35^s.633, 35^s.503, 35^s.427, 35^s.303, 35^s.217, 35^s.132, 35^s.044, 34^s.973, 34^s.887, 34^s.816.
- 41. Observed over wire S with the transit-micrometer set to readings 35^s.800, 36^s.014, 36^s.142, 36^s.281, 36^s.444, 36^s.600, 36^s.742, 36^s.873, 37^s.052, 37^s.210.
- 45. Cloudy.
- 47. Observed over wires T, U, V, W, X, Y, and Z.
- 5, 6. Very diffused and unsteady.
- 11. Unsteady.

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

1907

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1907

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.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
June 28	1	Antares	JS	51.8	54.5	57.3	3.0	5.7	8.6	16.5	19.4	22.1	24.8	16. 23. 8.54	+ 4.52	8.71	37.51	28.80	29.02	16. 23. 37.51	
	2	ζ Ophiuchi	JS	14.1	16.6	18.9	24.1	26.7	29.1	36.4	39.1	41.5	44.1	16. 31. 29.22	(- 13.42)	29.13	57.94	28.81	[- 0.32]	16. 31. 57.93	
	3	ε Herculis	WS	55.3	58.1	1.0	7.2	9.9	12.9	21.1	24.1	27.0	29.9	16. 56. 12.83	[+ 0.62]	12.21	41.43	29.22	29.44	.....	
	4	ε Herculis.....(E&E)	WS	59.6	16.9	34.4	51.9	8.9	26.4	44.0	...	...	...	16. 56. 12.84		12.22	41.43	29.21		.....	
	5	α ¹ Herculis	WS	36.8	39.4	41.9	47.3	49.6	52.5	59.6	2.3	5.0	7.5	17. 9. 52.35		51.94	21.14	29.20		.....	
	6	α Ophiuchi	E	49.6	52.2	54.7	0.0	2.3	5.1	12.3	15.0	17.5	20.1	17. 30. 5.04		4.65	33.73	29.08	29.34	.....	
	7	β Ophiuchi.....	E	5.2	7.6	10.1	15.3	17.6	20.2	27.4	30.1	32.4	35.0	17. 38. 20.24		19.95	49.07	29.12		.....	
	8	δ Ursæ Minoris	JS	17.4	29.0	45.9	50.4	56.2	10.2	16.8	22.3	34.8	40.0	18. 2. 51.26		43.57	12.19	28.62	29.02	18. 3. 12.35	
	9	η Serpentis	JS	42.4	45.0	47.3	52.6	54.8	57.4	4.7	7.1	9.6	12.1	18. 15. 57.45		57.26	26.01	28.75		18. 16. 26.04	
	10	λ Sagittarii	JS	23.6	26.4	29.0	34.9	37.4	40.3	48.1	51.0	53.6	56.6	18. 21. 40.26		40.41	9.17	28.76		18. 22. 9.19	
	11	Cephei 51 S.P.	JS	7.0	14.2	19.6	34.3	39.3	44.5	56.0	59.9	4.3	16.9	18. 55. 15.22		23.35	51.92	28.57		6. 55. 52.12	
	12	λ Ursæ Minoris	JS	42.7	49.2	53.9	58.3	3.4	8.5	14.1	19.0	24.0	29.5	19. 17. 47.23		22.44	51.97	29.53		19. 17. 51.20	
	13	α Vulpeculæ	JS	...	...	...	...	...	19.4	27.2	29.9	32.7	35.3	19. 24. 19.33		18.80	47.54	28.74		19. 24. 47.56	
	14	γ Aquilæ	JS	3.4	5.8	8.2	13.5	15.8	18.4	25.8	28.3	30.9	33.4	19. 41. 18.51		18.16	46.92	28.76		19. 41. 46.92	
	15	β Aquilæ	JS	...	...	...	7.6	10.0	12.6	19.7	22.3	24.8	27.3	19. 50. 12.58		12.27	41.10	28.83		19. 50. 41.03	
	16	Groombridge 1119 S.P.	JS	2.3	9.7	15.4	32.2	36.7	41.1	53.4	59.4	4.9	13.6	20. 1. 34.24		56.17	25.19	29.12		8. 2. 24.92	
	17	θ Aquilæ	JS	42.8	45.4	47.8	52.9	55.3	58.0	4.9	7.6	10.0	12.4	20. 5. 57.86		57.64	26.47	28.83		20. 6. 26.39	
	18	α ² Capricorni	JS	5.3	7.8	10.3	15.6	17.9	20.7	27.9	30.6	33.0	35.5	20. 12. 20.62		20.57	49.36	28.79		20. 12. 49.32	
	19	β Capricorni	JS	58.5	1.0	3.6	8.8	11.2	14.0	21.3	23.9	26.5	29.2	20. 15. 13.96		13.94	42.78	28.84		20. 15. 42.69	
July 1	20	⊙ 1 L.	SD	5.0	7.6	10.4	16.0	18.5	21.3	29.1	31.9	34.7	37.2	6. 37. 21.34	(- 12.91)	29.67			28.13	[- 0.40]	6. 38. 57.69
	21	⊙ 2 L.	SD	22.4	25.3	27.7	33.5	35.8	38.8	46.7	49.4	52.1	54.8	6. 39. 38.82	[+ 2.44]						
	22	Procyon	SD	36.7	39.3	41.7	46.8	49.3	51.7	59.0	1.4	4.0	6.5	7. 33. 51.80		51.62	19.55	27.93		7. 34. 19.62	
	23	Pollux	SD	45.5	48.3	51.0	57.0	59.6	2.4	10.5	13.3	16.1	19.0	7. 39. 2.45		1.96	29.93	27.97		7. 39. 29.96	
	24	Spica	SD	29.5	32.0	34.5	39.6	42.3	44.8	...	54.6	57.1	59.7	13. 19. 44.77		44.82	12.68	27.86		13. 20. 12.73	
	25	Polaris S.P.	SD	34.7	39.3	44.0	58.4	4.0	9.2	13.5	24.0	27.6	42.0	13. 24. 12.70		34.80	3.08	28.28		.....	
	26	τ Boötis	SD	3.0	5.5	8.0	13.5	15.9	18.5	26.2	28.8	31.4	34.0	13. 42. 18.64		18.30	46.11	27.81		13. 42. 46.20	
	27	η Boötis	R. SD	26.0	28.7	31.2	36.7	39.2	41.9	49.3	52.1	54.8	57.3	13. 49. 41.88		43.09	10.98	27.89		13. 50. 10.99	
	28	τ Virginis	SD	7.3	10.0	12.4	17.5	19.8	22.5	29.5	32.0	34.6	37.0	13. 56. 22.41		22.27	50.16	27.89		13. 56. 50.16	
	29	Arcturus	R. SD	36.0	38.7	41.0	46.7	49.1	51.7	59.3	2.2	4.8	7.3	14. 10. 51.84		53.05	21.03	27.98		14. 11. 20.94	
	30	f Boötis	SD	20.4	23.0	25.4	31.0	33.4	36.3	43.6	46.4	49.1	51.7	14. 21. 36.19		35.83	3.69	27.86		14. 22. 3.72	
	31	e ² Boötis	SD	7.3	10.3	13.0	18.8	21.3	24.3	32.4	35.2	38.0	40.8	14. 40. 24.31		23.84	51.79	27.95		14. 40. 51.73	
	32	ψ Boötis	SD	...	...	...	...	...	4.7	7.4	10.3	13.0	14.5	59. 56.60		56.13	24.09	27.96		15. 0. 24.01	
	33	Groombridge 2283	SD	53.3	0.1	5.0	21.6	26.7	32.3	46.3	54.4	59.0	11.2	15. 7. 26.20		14.45	42.59	28.14		.....	
	34	β Libræ	SD	12.5	15.1	17.5	22.8	25.1	27.6	34.9	37.3	39.9	42.5	15. 11. 27.68		27.69	55.61	27.92		15. 11. 55.57	
July 4	35	α ¹ Herculis	B	39.3	42.0	44.4	47.6	52.1	54.8	2.2	4.7	7.3	9.8	17. 9. 54.58	+ 4.48	54.36	21.14	26.78	26.89		
	36	σ Ophiuchi	B	8.9	11.2	13.7	18.8	21.2	23.9	31.0	33.6	36.1	38.7	17. 21. 23.86	(- 12.67)						
	37	σ Ophiuchi.....(E&E)	B	8.9	23.8	38.7	53.7	8.5	23.4	38.4	...	...	...	17. 21. 23.90	[+ 3.93]	23.78	50.34	26.56		.....	
	38	α Ophiuchi	B	52.0	54.5	57.0	2.3	4.7	7.4	14.7	17.3	19.8	22.3	17. 30. 7.36		23.82	50.34	26.52		.....	
	39	α Ophiuchi.....(E&E)	B	51.5	6.6	21.9	37.2	52.2	7.4	22.8	...	...	...	17. 30. 7.37		7.16	33.74	26.58		.....	
	40	μ Herculis	B	3.7	6.4	9.1	15.1	17.6	20.5	27.8	31.3	34.2	37.6	17. 42. 20.60		7.17	33.74	26.57		.....	
	41	δ Ursæ Minoris	B	24.5	32.6	38.3	50.1	55.3	59.8	10.2	15.2	19.6	25.3	18. 2. 54.03		20.19	46.67	26.48		.....	
	42	η Serpentis	B	44.6	47.0	49.4	54.6	57.0	59.5	6.7	9.3	11.8	14.1	18. 15. 59.55		44.94	11.32	26.38		.....	
	43	α Lyræ	B	0.7	3.8	7.0	13.5	16.5	19.9	28.9	32.3	35.2	38.5	18. 33. 19.82		59.57	26.05	26.48		.....	
																19.22	45.85	26.63		.....	
July 5	44	⊙ 1 L.	J	38.3	41.1	43.6	49.4	52.0	54.8	2.5	5.2	8.0	10.5	6. 54. 54.70		2.93			26.49		6. 55. 29.30
	45	⊙ 2 L.	J	...	...	...	...	9.0	11.7	19.3	22.2	24.8	27.6	6. 56. 11.86							
July 6	46	⊙ 1 L.	S	45.5	48.1	50.8	56.4	58.9	1.8	9.6	12.3	14.9	17.7	6. 58. 1.76	(- 12.49)	9.97			26.17		6. 59. 36.02
	47	⊙ 2 L.	S	2.7	5.2	7.9	13.5	16.0	18.8	26.7	29.4	32.1	35.0	7. 0. 18.89	[+ 3.27]						
	48	η Boötis	S	...	...	...	40.2	42.5	45.3	52.8	55.6	58.3	0.8	13. 49. 45.35		45.04	10.92	25.88		13. 50. 10.98	
	49	Arcturus	S	39.5	42.1	44.8	50.2	52.7	55.3	3.0	5.8	8.3	10.9	14. 10. 55.42		55.09	20.97	25.88		14. 11. 21.02	
	50	ρ Boötis	S	2.7	5.6	8.3	14.3	17.0	20.2	28.5	31.4	34.2	37.2	14. 27. 20.12		19.64	45.46	25.82		14. 27. 45.57	

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 4, 37, and 39, - 99^s.05 : - 89^s.87 : and - 89^s.87.

8. Observed over wire T with the transit-micrometer set to readings 36^r.231, 36^r.505, 36^r.892, 37^r.025, 37^r.146, 37^r.495, 37^r.627, 37^r.766, 38^r.056, 38^r.204.
 11. Observed over wire O with the transit-micrometer set to readings 35^r.873, 35^r.721, 35^r.622, 35^r.342, 35^r.234, 35^r.114, 34^r.894, 34^r.789, 34^r.735, 34^r.476.
 12. Observed over wire S with the transit-micrometer set to readings 35^r.355, 35^r.404, 35^r.446, 35^r.473, 35^r.491, 35^r.535, 35^r.583, 35^r.609, 35^r.656, 35^r.691.
 16. Observed over wire T with the transit-micrometer set to readings 37^r.693, 37^r.632, 37^r.595, 37^r.450, 37^r.404, 37^r.359, 37^r.277, 37^r.231, 37^r.203, 37^r.119.
 22, 23. Unsteady.
 25. Observed over wire R with the transit-micrometer set to readings 36^r.371, 36^r.345, 36^r.320, 36^r.199, 36^r.129, 36^r.093, 36^r.050, 35^r.970, 35^r.930, 35^r.820.
 27, 29. Diffused; windy.
 33. Observed over wire T with the transit-micrometer set to readings 35^r.052, 35^r.160, 35^r.226, 35^r.520, 35^r.616, 35^r.700, 35^r.951, 30^r.080, 36^r.150, 36^r.355.
 40. Faint; cloudy.
 41. Observed over wire U with the transit-micrometer set to readings 34^r.836, 35^r.052, 35^r.204, 35^r.473, 35^r.597, 35^r.705, 35^r.966, 36^r.070, 36^r.190, 36^r.316.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 17, 22, and 24, - 104''15 : - 104''10 : and - 104''10.
Corrections for passage of Semidiameter, Nos. 7, 25, 32, and 46, + 70''08 : - 0''82 : + 0''20 : and + 70''06.

- 1, 2. Cloudy.
8. Reduction to D's centre at time of transit, - 10''74. A further correction of - 0''46 has been applied to reduce to time of transit of D's centre on true meridian.
11. Observed over wire O with the transit-micrometer set to readings 28''488, 28''741, 28''912, 29''161, 29''268, 29''381, 29''580, 29''720, 30''130.
13. Observed over wire X with the transit-micrometer set to readings 39''822, 39''628, 39''491, 39''170, 39''100, 39''003, 38''797, 38''692, 38''598, 38''377.
15. Observed over wire R with the transit-micrometer set to readings 34''820, 34''860, 34''900, 34''963, 35''020, 35''052, 35''105, 35''186, 35''200, 35''264.
19. Observed over wire V with the transit-micrometer set to readings 35''712, 35''618, 35''570, 35''473, 35''453, 35''380, 35''261, 35''222, 35''154, 35''090. Faint; cloudy.
25. Unsteady.
29. Very faint.
46. Correction to R.A. on true meridian, + 0''02.
47. Observed over wire X with the transit-micrometer set to readings 42''162, 42''597, 42''906, 43''114, 43''278, 43''583, 43''832, 44''210, 44''471, 44''716.
51. Observed over wire R with the transit-micrometer set to readings 35''312, 34''909, 34''730, 34''523, 34''303, 34''124, 33''943, 33''753, 33''582, 33''102.
7. Correction to R.A. on true meridian, + 0''01.
28. Very diffused.
32. Very unsteady; barely visible.

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.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).	(Azimuth).					
				s	s	s	s	s	s	s	s	s	s		"	"					
July 29	1	⊙ 2 L.....	W	45.6	48.3	50.7	56.0	58.7	1.3	8.9	11.8	14.3	16.8	8.33. 1.40	+ 4.45		1.16			15.06	8.32. 9.16
	2	α Lyrae.....	W	12.5	15.8	18.8	25.3	28.3	31.8	41.0	...	47.4	...	18.33. 31.75	(- 12.39)		31.19	45.80	14.61	[- 0.55]	.....
	3	2 Aquilæ.....	W	37.0	39.5	41.9	47.1	49.5	52.2	59.3	2.0	4.4	7.0	18.36. 52.15	[+ 5.18]		52.34	6.99	14.65		.....
July 31	4	⊙ 1 L.....	J	22.4	25.1	27.9	33.3	35.8	38.3	45.9	48.5	51.3	53.9	8.38. 38.40	+ 4.22						.....
	5	⊙ 2 L.....	J	35.9	38.5	41.3	46.5	49.0	51.9	59.3	2.0	4.6	7.2	8.40. 51.78	(- 11.67)						.....
Aug. 1	6	⊙ 1 L.....	RC	16.5	19.3	22.0	27.4	29.8	32.5	39.9	42.5	45.3	47.9	8.42. 32.47							.....
	7	⊙ 2 L.....	RC	29.9	32.4	35.0	40.4	42.9	45.6	53.3	55.8	58.4	1.1	8.44. 45.64							.....
	8	ψ Sagittarii.....	RC	15.8	18.5	21.3	26.9	29.4	32.3	40.4	43.2	45.8	48.5	19. 9.32.38							.....
	9	λ Ursæ Minoris.....	RC	6.7	17.7	24.2	40.0	45.8	52.5	7.6	13.5	20.6	37.5	19.17. 56.24							.....
	10	α Aquilæ.....	RC	...	46.2	48.4	53.6	56.0	58.7	5.9	8.5	11.0	...	19.45. 58.69							.....
	11	Groombridge 1119 S.P.....	RC	5.0	13.3	18.5	32.0	37.0	42.8	55.9	3.2	10.0	26.2	20. 1.52.97							.....
	12	α ² Capricorni.....	RC	...	...	...	...	...	...	44.0	46.5	49.2	51.8	20.12. 36.71							.....
	13	Groombridge 3548.....	RC	28.3	35.4	41.5	59.6	6.8	11.6	23.0	27.9	32.4	46.1	21.18. 55.99							.....
	14	Saturn 1 L.....	RC	19.3	21.9	24.2	29.5	32.0	34.6	42.0	44.5	47.1	49.7	22.14. 34.64							.....
	15	Saturn 2 L.....	RC	20.6	23.0	25.4	30.6	33.1	35.8	43.0	45.7	48.2	50.6	22.14. 35.76							.....
	16	ζ Pegasi.....	RC	18.0	20.3	22.8	28.0	30.4	33.2	40.5	43.0	45.6	48.1	22.36. 33.15							.....
	17	ζ Pegasi.....(E&E)	RC	26.8	42.0	57.2	12.1	27.3	42.0	57.4	...	...	...	22.36. 33.05							.....
	18	Fomalhaut.....	RC	55.8	58.8	1.7	7.6	10.2	13.1	21.5	24.3	27.3	30.1	22.52. 13.22							.....
	19	γ Geminorum.....	J	...	...	...	...	...	...	11.7	14.3	16.8	32.4	6.32. 1.62	(- 11.04)						.....
	20	Pollux.....	J	1.2	4.0	6.7	12.7	15.3	18.2	26.5	29.3	32.1	34.9	7.39. 18.27	[+ 4.18]						.....
Aug. 2	21	⊙ 1 L.....	J	...	...	...	...	23.5	26.5	33.7	36.6	39.3	41.8	8.46. 26.38							.....
	22	⊙ 2 L.....	J	23.5	26.4	29.0	34.3	36.7	39.3	47.0	49.5	52.2	54.8	8.48. 39.43							.....
	23	Regulus.....	J	51.5	54.1	56.6	1.7	4.3	7.0	14.0	16.8	19.3	22.0	10. 3. 6.89							.....
Aug. 3	24	72 Ophiuchi.....	SD	26.1	28.7	31.1	36.3	38.7	41.3	48.6	51.0	53.6	56.2	18. 2.41.32							.....
	25	δ Ursæ Minoris.....	SD	35.3	41.0	47.3	54.1	14.0	19.0	25.4	44.6	50.3	58.1	18. 3. 1.12							.....
	26	η Serpentis.....	SD	59.3	1.8	4.2	9.4	11.7	14.2	21.3	23.8	26.4	29.0	18.16. 14.26							.....
	27	α Lyrae.....	SD	15.3	18.4	21.5	28.0	31.1	34.2	43.6	46.8	49.9	53.1	18.33. 34.38							.....
	28	β ¹ Lyrae.....	SD	7.6	10.5	13.4	19.6	22.3	25.5	34.0	37.0	40.0	42.9	18.46. 25.46							.....
	29	Groombridge 1119 S.P.....	SD	25.7	32.1	37.0	43.5	1.8	9.8	17.7	36.7	43.5	51.8	20. 1.54.27							.....
	30	β Capricorni.....	SD	15.7	18.2	20.9	26.1	28.7	31.3	38.7	41.3	43.8	46.4	20.15. 31.27							.....
	31	ε Delphini.....	SD	...	18.7	21.3	26.4	29.0	31.7	39.0	41.3	43.9	...	20.28. 31.56							.....
	32	α Delphini.....	SD	49.2	51.7	54.3	59.7	2.2	4.8	12.2	14.7	17.3	20.0	20.35. 4.77							.....
	33	μ Aquarii.....	SD	7.5	10.0	12.5	17.8	20.3	22.7	30.0	32.5	35.0	37.6	20.47. 22.75							.....
	34	32 Vulpeculæ.....	SD	5.2	7.9	10.5	16.4	19.2	22.0	30.0	33.0	35.8	38.5	20.50. 22.03							.....
	35	θ Capricorni.....	SD	11.7	14.0	16.7	22.0	24.5	27.3	34.9	37.5	40.0	42.6	21. 0.27.28							.....
Aug. 4	36	σ Aquarii.....	SD	12.8	...	17.6	23.0	25.3	27.8	35.2	37.8	...	42.8	22.25. 27.94							.....
	37	Spica.....	J	46.0	48.4	50.8	56.0	58.5	1.2	8.5	11.0	13.5	16.0	13.20. 1.15	(- 11.47)						.....
	38	Polaris S.P.....	J	1.2	4.7	8.8	21.2	24.6	28.0	39.4	43.7	47.0	...	3.13.25. 0.84	[+ 4.03]						.....
	39	α Ophiuchi.....	W	7.7	9.9	12.3	17.5	19.9	22.5	29.9	32.5	35.0	37.6	17.30. 22.64							.....
	40	β Ophiuchi.....	W	22.9	25.3	27.8	33.0	35.3	37.9	45.2	47.7	50.1	52.6	17.38. 37.93							.....
	41	μ Herculis.....	W	18.9	21.3	24.3	30.1	32.8	35.6	43.8	46.6	49.5	52.2	17.42. 35.69							.....
	42	h ² Sagittarii.....	S	30.3	33.0	35.7	41.5	44.2	47.0	54.9	57.7	...	3.0	19.30. 46.93							.....
	43	ε ¹ Sagittarii.....	S	52.5	55.2	57.5	3.0	5.5	8.2	15.7	18.2	20.9	23.4	19.35. 8.17							.....
	44	γ Aquilæ.....	S	20.8	23.4	25.8	31.0	33.3	36.0	43.3	45.8	48.3	50.9	19.41. 36.02							.....
	45	α Aquilæ.....	S	45.3	47.8	50.0	55.4	57.7	0.3	7.6	10.2	12.7	15.2	19.46. 0.38							.....
	46	μ Aquarii.....	J	38.3	53.5	...	...	...	23.8	31.0	33.5	53.6	19.0	20.47. 23.76							.....
	47	32 Vulpeculæ.....	J	...	...	11.9	17.8	20.3	23.3	31.4	34.3	...	...	20.50. 23.32							.....
	48	θ Capricorni.....	J	...	15.2	17.8	23.0	25.7	28.3	35.9	38.5	41.0	...	21. 0.28.34							.....
	49	ζ Cygni.....	J	28.8	31.7	34.3	40.3	43.0	46.0	54.3	57.3	0.1	3.0	21. 8.46.00							.....

Correction to the times by Hardy for reduction to Sidereal Standard, applied to Concluded Transit, No. 17, - 99^s.21.
Correction for passage of Semidiameter, No. 1, - 66^s.86.

1, 47. Cloudy.

2. Very cloudy.

4, 5. Kept for diameter only, no determination of clock error having been made within 24 hours of the observation.

9. Observed over wire U with the transit-micrometer set to readings 34^s.490, 34^s.547, 34^s.573, 34^s.710, 34^s.740, 34^s.790, 34^s.898, 34^s.940, 34^s.985, 35^s.110.

11. Observed over wire T with the transit-micrometer set to readings 35^s.070, 35^s.908, 35^s.842, 35^s.757, 35^s.736, 35^s.698, 35^s.568, 35^s.510, 35^s.472, 35^s.347.

13. Observed over wire R with the transit-micrometer set to readings 34^s.090, 34^s.277, 34^s.420, 34^s.855, 35^s.035, 35^s.117, 35^s.388, 35^s.503, 35^s.605, 35^s.930.

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

25. Observed over wire U with the transit-micrometer set to readings 33^s.515, 33^s.653, 33^s.790, 33^s.961, 34^s.442, 34^s.578, 34^s.710, 35^s.170, 35^s.320, 35^s.510.

29. Observed over wire P with the transit-micrometer set to readings 35^s.830, 35^s.770, 35^s.731, 35^s.664, 35^s.540, 35^s.492, 35^s.420, 35^s.289, 35^s.230, 35^s.180.

30. Diffused.

36. Faint; cloudy.

38. Observed over wire W with the transit-micrometer set to readings 36^s.313, 36^s.252, 36^s.241, 36^s.133, 36^s.107, 36^s.097, 35^s.973, 35^s.939, 35^s.909, 35^s.770.

46. Observed over wires M, N, T, U, V, Y and Z. Cloudy.

MONTH and YEAR.	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 Rate (Losing Rate).	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
Aug. 9	1	δ Ursæ Minoris S.P.....	W	31.0	37.0	40.7	45.3	53.3	...	...	...	...	...	6. 2. 48.45	+ 3.93 (- 10.66)	54.74	2.70	7.96	8.24	.....
	2	β Canis Minoris.....	W	37.3	39.9	42.2	47.3	49.8	52.3	59.6	2.1	4.6	7.1	7. 21. 52.38	+ 2.35	52.23	0.23	8.00	- 0.64	7. 22. 0.27
	3	Castor.....	W	7.3	10.2	13.1	19.1	22.0	25.0	33.7	36.5	39.6	42.3	7. 28. 25.06		24.63	32.64	8.01		7. 28. 32.67
	4	Procyon.....	W	57.0	59.6	2.0	7.0	9.3	12.0	19.2	21.8	24.3	26.8	7. 34. 12.06		11.95	20.00	8.05		7. 34. 19.99
	5	Pollux.....	W	5.9	8.5	11.3	17.2	19.8	22.8	30.9	33.9	36.7	39.5	7. 39. 22.83		22.45	30.44	7.99		7. 39. 30.49
Aug. 10	6	⊙ 1 L.....	W	58.2	0.8	3.4	8.7	11.2	13.9	21.5	24.1	26.7	29.5	9. 17. 13.96						9. 18. 27.63
	7	⊙ 2 L.....	W	...	...	...	20.6	23.4	26.4	33.1	35.8	38.3	40.7	9. 19. 25.80						
	8	α Hydre.....	W	32.1	34.7	37.2	42.3	44.7	47.6	54.5	57.1	59.4	2.0	9. 22. 47.32		47.37	55.26	7.89		9. 22. 55.36
	9	⊙ 1 L.....	W	...	...	...	50.3	52.7	55.3	...	11.4	27.5	17. 38. 55.48		55.67					17. 40. 12.92
	10	γ 2 Ophiuchi.....	W	30.2	32.7	35.1	40.3	42.8	45.3	52.6	55.2	57.7	0.2	18. 2. 45.37		45.20	52.99	7.79		18. 2. 52.96
	11	δ Ursæ Minoris.....	W	3.1	9.0	12.9	16.3	31.2	34.3	37.9	41.5	54.2	57.5	18. 3. 1.61		54.68	2.52	7.84		.....
	12	μ Sagittarii.....	W	...	...	...	54.1	56.7	59.5	7.2	10.0	12.6	15.3	18. 7. 59.55		59.77	7.58	7.81		18. 8. 7.53
	13	η Serpentis.....	W	3.3	5.8	8.2	13.3	15.7	18.3	25.4	28.0	30.4	32.9	18. 16. 18.28		59.77	7.58	7.75		18. 16. 26.02
	14	ι Piscium.....	W	43.7	46.3	48.5	53.8	56.1	58.7	5.9	8.4	10.9	13.5	23. 34. 58.74		58.63	6.28	7.65		23. 35. 6.23
	15	ω Piscium.....	W	...	...	10.5	15.8	18.2	20.8	28.1	30.7	...	...	23. 54. 20.82		20.70	28.36	7.66		23. 54. 28.30
	16	2 Ceti.....	W	31.0	33.7	36.2	41.7	44.0	46.8	54.3	57.0	59.5	2.2	23. 58. 46.80		46.98	54.65	7.67		23. 58. 54.58
Aug. 11	17	⊙ 2 L.....	SD	58.2	0.7	3.3	8.6	11.0	13.8	21.3	23.9	26.4	29.0	9. 23. 13.78		13.55			7.74	9. 22. 15.25
	18	Polaris S.P.....	SD	41.0	47.8	52.8	9.6	16.2	23.5	38.9	45.2	2.1	9.5	13. 25. 17.78		36.09	44.06	7.97	- 0.66	.....
	19	η Boötis.....	SD	...	...	...	58.0	0.5	3.3	10.9	13.6	16.2	18.8	13. 50. 3.32		3.05	10.42	7.37		13. 50. 10.40
	20	η Serpentis.....	SD	...	...	...	16.4	...	...	26.0	28.6	31.0	33.5	18. 16. 18.91		18.90	26.01	7.11		18. 16. 26.14
	21	λ Sagittarii.....	SD	45.0	47.8	50.5	56.3	59.0	1.8	9.6	12.3	15.2	18.0	18. 22. 1.72		2.01	9.23	7.22		18. 22. 9.24
	22	⊙ 1 L.....	SD	43.9	46.6	49.3	54.8	57.3	0.3	8.2	11.0	13.6	16.3	18. 38. 0.29		0.49				18. 39. 16.76
	23	Mösting A.....	SD	...	...	10.6	16.2	18.9	21.7	29.6	32.3	...	...	18. 39. 21.69		21.89				18. 39. 16.70
	24	β Lyræ.....	SD	...	...	...	...	...	...	38.3	41.5	44.5	47.5	18. 46. 29.93		29.49	36.72	7.23		18. 46. 36.71
	25	ε Aquilæ.....	SD	58.7	1.2	3.7	9.0	11.4	14.0	21.4	24.1	26.8	29.2	18. 55. 14.11		13.88	21.06	7.18		18. 55. 21.10
	26	Cephei 51 S.P.....	SD	58.7	4.9	11.0	16.5	37.2	43.0	48.3	2.0	7.8	12.3	18. 55. 45.80		53.45	1.01	7.56		.....
	27	ζ Cygni.....	SD	32.3	35.2	38.1	44.0	46.8	49.8	57.8	0.8	3.7	6.7	21. 8. 49.70		49.30	56.46	7.16		21. 8. 56.46
	28	α Equulei.....	SD	45.2	47.7	50.2	55.1	57.6	0.2	7.6	9.8	12.3	14.9	21. 11. 0.21		0.10	7.26	7.16		21. 11. 7.26
	29	Groombridge 3548.....	SD	16.2	22.8	29.7	44.6	50.6	56.2	13.0	21.5	28.2	43.0	21. 19. 0.66		53.67	1.16	7.49		.....
	30	16 Pegasi.....	SD	23.7	26.6	29.2	35.0	37.6	40.3	48.3	51.2	53.9	56.7	21. 48. 40.42		40.07	47.21	7.14		21. 48. 47.21
	31	ι Pegasi.....	SD	14.9	17.6	20.2	25.7	28.5	31.3	39.2	42.0	44.8	47.7	22. 2. 31.36		31.02	38.17	7.15		22. 2. 38.15
	32	Saturn 1 L.....	SD	45.9	48.3	50.9	56.2	58.7	1.3	8.5	11.2	13.7	16.2	22. 12. 1.25						22. 12. 9.15
	33	Saturn 2 L.....	SD	47.2	49.8	52.3	57.7	59.9	2.5	9.8	12.4	15.0	17.6	22. 12. 2.58						
	34	ζ Pegasi.....	SD	24.0	26.5	28.8	34.0	36.4	39.0	46.2	49.0	51.4	53.9	22. 36. 39.08		38.91	46.11	7.20		22. 36. 46.03
	35	Bradley 3147.....	SD	12.4	18.3	26.3	41.2	44.8	50.2	3.3	7.7	11.5	25.6	23. 28. 16.13		8.86	16.11	7.25		.....
	36	ι Piscium.....	SD	...	...	...	54.3	56.7	59.3	6.6	8.9	11.4	13.9	23. 34. 59.28		59.17	6.29	7.12		23. 35. 6.26
Aug. 13	37	⊙ 1 L.....	W	21.7	24.2	26.7	32.0	34.4	37.1	44.5	47.3	49.8	52.3	9. 28. 37.16	+ 3.50				6.33	9. 29. 48.69
	38	⊙ 2 L.....	W	...	...	...	...	55.9	58.5	1.0	3.4	18.9	34.5	9. 30. 48.42					- 0.64	.....
	39	β Aquilæ.....	B	20.7	23.1	25.7	30.7	33.0	35.7	43.0	45.4	48.0	50.5	19. 50. 35.74		35.68	41.42	5.74		.....
	40	β Aquilæ..... (E&E)	B	21.6	36.6	51.5	6.5	21.2	36.1	51.2	...	...	...	19. 50. 35.74		35.68	41.42	5.74		.....
	41	Groombridge 1119 S.P.....	B	53.3	1.5	9.9	33.0	40.8	50.6	2.3	10.4	17.7	31.8	20. 2. 6.75		29.67	35.44	5.77		.....
	42	θ Aquilæ.....	B	6.3	8.5	11.0	16.2	18.5	21.2	28.2	30.7	33.2	35.7	20. 6. 21.10		21.12	26.89	5.77		.....
	43	θ Aquilæ..... (E&E)	B	7.3	22.1	36.9	52.0	6.5	21.4	36.3	...	...	...	20. 6. 21.13		21.15	26.89	5.74		.....
	44	ρ Capricorni.....	B	7.7	10.3	12.7	18.1	20.7	23.3	30.8	33.5	36.3	38.8	20. 23. 23.38		23.63	29.41	5.78		.....
	45	⊙ 1 L.....	B	59.2	2.0	4.5	10.0	12.5	15.4	23.1	25.9	28.4	31.1	20. 32. 15.37		15.61				20. 33. 28.11
	46	μ Aquarii.....	B	13.4	16.0	18.4	23.7	26.0	28.6	35.9	38.4	41.0	43.4	20. 47. 28.64		28.76	34.58	5.82		.....
	47	ζ Vulpeculæ.....	B	11.2	13.9	16.6	22.4	25.0	28.0	36.0	38.9	41.8	44.5	20. 50. 28.01		27.68	33.50	5.82		.....
	48	ζ Cygni.....	B	33.8	36.6	39.4	45.4	48.0	51.0	59.3	2.2	5.1	7.9	21. 8. 51.05		50.69	56.47	5.78		.....
	49	α Equulei.....	B	46.5	49.0	51.3	56.5	59.0	1.6	8.7	11.3	13.8	16.2	21. 11. 1.54		1.49	7.27	5.78		.....
	50	Venus 2 L.....	J	56.1	58.7	1.3	6.8	9.3	12.1	20.0	22.6	25.2	27.8	6. 38. 12.15		11.89			5.25 (- 0.55)	6. 38. 16.34

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 40 and 43, - 90^s.80.
Corrections for passage of Semidiameter, Nos. 9, 17, 22, 45, and 50, + 69^s.47: - 65^s.78: + 69^s.03: + 66^s.70: and - 0^s.65.

- Observed over wire O with the transit-micrometer set to readings 24^s.910, 24^s.762, 24^s.640, 24^s.548, 24^s.352. 1, 6, 7. Cloudy.
- Correction to R.A. on true meridian + 0^s.01. Very cloudy; observed over wires R, S, T, X, and Y.
- Observed over wire O with the transit-micrometer set to readings 34^s.532, 34^s.669, 34^s.730, 34^s.844, 35^s.195, 35^s.254, 35^s.338, 35^s.421, 35^s.732, 35^s.810.
- Observed over wire T with the transit-micrometer set to readings 36^s.410, 36^s.360, 36^s.312, 36^s.179, 36^s.058, 35^s.935, 35^s.900, 35^s.736, 35^s.660. Very diffused and unsteady. 19, 36. Diffused. 22. Correction to R.A. on true meridian + 0^s.01.
- Reduction to D's centre at time of transit of crater - 11^s.92. A further correction of - 0^s.50 has been applied to reduce to time of transit of D's centre on true meridian.
- Observed over wire Q with the transit-micrometer set to readings 37^s.050, 36^s.931, 36^s.810, 36^s.697, 36^s.260, 36^s.180, 36^s.080, 35^s.800, 35^s.702, 35^s.594.
- Observed over wire O with the transit-micrometer set to readings 33^s.499, 33^s.638, 33^s.808, 34^s.147, 34^s.325, 34^s.410, 34^s.840, 35^s.030, 35^s.200, 35^s.538.
- Very unsteady.
- Observed over wire T with the transit-micrometer set to readings 35^s.517, 35^s.637, 35^s.830, 36^s.172, 36^s.268, 36^s.369, 36^s.689, 36^s.760, 36^s.860, 37^s.160.
- Cloudy; observed over wires U, V, W, X, Y, and Z.
- Observed over wire T with the transit-micrometer set to readings 36^s.155, 36^s.098, 36^s.047, 35^s.852, 35^s.799, 35^s.726, 35^s.637, 35^s.572, 35^s.526, 35^s.402.
- Correction to R.A. on true meridian + 0^s.02.

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

1907GAMM.

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 (Lossing Rate).	Apparent R.A. of Centre from the Observation.	
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		h	m						s
				s	s	s	s	s	s	s	s	s	s									
Aug. 14	1	⊙ 2 L.....	J	19.4	22.0	24.5	29.8	32.2	35.0	42.3	44.8	47.2	49.9	9. 34. 34.87	+ 4.15 (- 11.11) + 3.01		34.67			5.25 [- 0.55]	9. 33. 34.20 13. 20. 12.14	
	2	Spica.....	J	...	...	...	7.0	14.4	17.0	19.5	21.9	37.0	52.3	13. 20. 7.10		7.20	12.14	4.94		.....		
	3	Polaris S.P.....	J	27.7	33.3	38.3	53.9	59.5	4.3	17.3	21.2	26.2	37.8	13. 25. 17.93		37.99	46.63	8.64		.....		
	4	c Sagittarii.....	S	29.3	32.2	35.0	40.7	43.3	46.3	54.4	57.3	0.0	2.8	19. 56. 46.31		46.68	52.06	5.38		.....		
	5	θ Aquilæ.....	S	6.7	9.1	11.6	16.6	19.1	21.5	28.8	31.3	33.6	36.1	20. 6. 21.59		21.57	26.89	5.32		.....		
	6	ε Aquarii.....	J	14.7	17.2	19.7	25.0	27.3	30.0	37.2	39.7	42.3	44.7	20. 42. 29.94		30.03	34.80	4.77		20. 42. 34.80		
	7	ζ Cygni.....	J	34.7	37.8	40.3	46.3	49.0	52.1	0.1	3.1	6.0	8.7	21. 8. 51.99		51.60	56.47	4.87		21. 8. 56.37		
	8	α Equulei.....	J	47.7	50.0	52.4	57.7	0.0	2.7	9.8	12.3	14.8	17.3	21. 11. 2.62		2.53	7.27	4.74		21. 11. 7.30		
	9	Groombridge 3548.....	J	19.9	25.3	32.3	37.8	44.2	48.7	53.1	57.0	2.1	6.7	21. 19. 2.96		55.35	0.87	5.52		.....		
	10	δ 1 L.....	J	55.8	58.3	1.0	6.6	9.0	11.7	19.3	22.0	24.5	27.1	21. 26. 11.69		11.86				21. 27. 21.80		
	11	ι Pegasi.....	J	17.3	20.0	22.7	28.3	30.7	33.7	41.7	44.3	47.1	49.8	22. 2. 33.73		33.40	38.20	4.80		22. 2. 38.15		
	12	Saturn 1 L.....	J	57.8	0.3	2.8	8.1	10.5	13.0	20.3	22.8	25.5	28.0	22. 11. 13.07						22. 11. 18.58		
	13	Saturn 2 L.....	J	58.9	1.5	4.0	9.3	11.7	14.3	21.7	24.3	26.7	29.3	22. 11. 14.33						.....		
	14	Bradley 3147.....	J	3.2	12.0	17.1	34.7	38.7	44.5	1.2	6.7	10.7	22.4	23. 28. 19.19		11.26	16.52	5.26		.....		
	15	ι Piscium.....	J	46.7	49.2	51.5	56.7	59.1	1.8	9.0	11.5	13.9	16.4	23. 35. 1.74		1.65	6.35	4.70		23. 35. 6.36		
	16	δ Sculptoris.....	J	38.9	41.9	44.8	50.5	53.3	56.3	...	...	...	...	23. 43. 56.18		56.57	1.11	4.54		23. 44. 1.28		
Aug. 15	17	⊙ 2 L.....	W	...	7.7	10.0	15.3	17.7	20.5	27.8	30.5	33.0	...	9. 38. 20.47	(- 11.61) + 4.11		20.29			5.06 [- 0.53]	9. 37. 19.71	
	18	Polaris S.P.....	W	22.6	27.2	30.8	34.2	51.2	54.9	57.7	0.8	12.3	15.8	13. 25. 19.64		43.14	47.41	4.27		.....		
	19	Arcturus.....	W	0.0	2.7	5.3	10.8	13.3	15.9	23.4	26.2	28.8	31.4	14. 11. 15.94		15.69	20.39	4.70		.....		
	20	δ Ursæ Minoris.....	W	52.8	56.3	59.5	2.8	6.2	24.0	28.2	31.2	34.0	38.1	18. 3. 4.87		56.16	0.74	4.58		.....		
	21	α Lyrae.....	W	22.1	25.4	28.3	35.1	38.0	41.5	50.6	53.8	57.0	0.2	18. 33. 41.39		40.87	45.57	4.70		.....		
	22	Venus 2 L.....	SD	36.3	39.0	41.6	47.2	49.8	52.4	0.1	2.9	5.7	8.3	6. 47. 52.49	(- 11.29) + 2.73		52.19			4.65 [- 0.56]	6. 47. 56.05	
Aug. 16	23	⊙ 2 L.....	SD	...	...	...	...	...	...	13.3	15.9	18.3	20.8	9. 42. 5.83		5.62				9. 41. 4.66		
	24	ζ Cygni.....	SD	35.5	38.3	41.0	47.0	49.8	52.7	1.0	3.8	6.7	9.6	21. 8. 52.72		52.31	56.47	4.16		.....		
	25	α Equulei.....	SD	...	...	...	...	...	...	10.3	13.0	15.5	17.9	21. 11. 3.25		3.14	7.28	4.14		.....		
	26	ι Capricorni.....	SD	40.3	42.9	45.5	50.8	53.4	56.0	3.5	6.2	8.6	11.3	21. 16. 56.01		56.19	0.30	4.11		.....		
	27	Groombridge 3548.....	SD	29.8	36.5	41.9	47.5	6.5	11.6	16.7	22.0	37.9	44.0	21. 19. 4.00		56.42	0.70	4.28		.....		
	28	16 Pegasi.....	SD	26.8	29.7	32.3	38.0	40.7	43.5	51.6	54.2	57.0	59.7	21. 48. 43.52		43.17	47.25	4.08		.....		
	29	α Aquarii.....	SD	37.7	40.3	42.8	48.0	50.3	52.8	0.0	2.5	5.1	7.6	22. 0. 52.86		52.82	57.01	4.19		.....		
	30	γ Aquarii.....	SD	...	...	...	...	...	...	50.7	53.3	55.9	58.3	13. 02. 16. 43.62		43.59	47.69	4.10		.....		
	31	ζ Pegasi.....	SD	26.9	29.4	32.0	...	39.6	42.3	...	...	...	...	57.0	22. 36. 42.20		42.02	46.17	4.15			
	32	Mösting A.....	SD	7.8	10.2	12.8	17.9	...	23.0	30.6	33.5	...	38.0	23. 8. 23.16		23.21				23. 8. 16.81		
	33	⊙ 2 L.....	SD	59.7	2.3	4.8	10.0	12.4	15.0	22.4	25.0	27.6	30.0	23. 9. 15.08		15.13				23. 8. 16.78		
	34	γ Piscium.....	SD	58.0	0.4	2.8	8.0	10.3	13.0	20.0	22.7	25.0	27.6	23. 12. 12.93		12.84	17.06	4.22		.....		
	35	κ Piscium.....	SD	47.3	49.8	52.2	57.4	59.8	2.3	9.3	11.9	14.3	17.0	23. 22. 2.28		2.22	6.33	4.11		.....		
	36	Bradley 3147.....	SD	53.7	1.2	12.1	19.2	42.1	48.3	54.0	8.3	14.3	20.0	23. 28. 20.72		12.82	16.77	3.95		.....		
	37	Venus 2 L.....	J	27.5	30.1	32.7	38.2	40.9	43.7	51.5	54.2	56.8	59.6	6. 52. 43.68	(- 10.87) + 3.17		43.42			3.67 [- 0.57]	6. 52. 46.30	
Aug. 17	38	⊙ 2 L.....	J	35.4	38.0	40.2	45.8	47.9	50.8	58.2	0.7	3.3	5.9	9. 45. 50.78		50.61				9. 44. 48.79		
	39	α Ophiuchi.....	S	14.7	17.1	19.5	24.9	27.2	29.9	37.2	39.8	42.4	44.9	17. 30. 29.92		29.76	33.44	3.68		.....		
	40	β Ophiuchi.....	S	30.1	32.7	35.1	40.3	42.5	45.2	52.5	55.0	57.4	59.8	17. 38. 45.21		45.14	48.84	3.70		.....		
	41	α Aquarii.....	J	38.9	41.3	43.6	49.0	51.2	53.9	1.1	3.5	6.1	8.5	22. 0. 53.86		53.86	57.02	3.16		.....		
	42	ι Pegasi.....	J	18.9	21.5	24.2	30.0	32.6	35.4	43.3	46.0	48.9	51.5	22. 2. 35.40		35.09	38.22	3.13		.....		
	43	Saturn 1 L.....	J	8.2	10.9	13.3	18.5	20.9	23.7	31.0	33.7	36.1	38.7	22. 10. 23.66						22. 10. 27.59		
	44	Saturn 2 L.....	J	9.4	12.1	14.5	19.7	22.2	25.0	32.4	34.9	37.4	39.8	22. 10. 24.90						.....		
	45	α Pegasi.....	J	46.1	48.6	51.1	56.3	59.0	1.5	8.9	11.4	14.0	16.6	23. 0. 1.51		1.33	4.45	3.12		.....		
	46	δ 2 L.....	W	...	47.1	49.5	54.8	57.1	0.1	7.3	9.7	12.3	...	23. 56. 59.89		59.93				23. 56. 1.89		
Aug. 18	47	ι Capricorni.....	RC	41.5	44.1	46.5	51.9	54.4	57.0	4.5	7.0	9.7	12.3	21. 16. 57.05		57.27	0.31	3.04		3.53		
	48	Groombridge 3548.....	RC	23.3	29.2	33.3	40.1	45.6	50.2	53.7	58.4	2.9	6.8	21. 19. 5.22		57.72	0.55	2.83	[- 0.64]	.....		
	49	α Aquarii.....	RC	39.2	41.8	43.8	49.2	51.5	54.2	1.2	3.8	6.3	8.7	22. 0. 54.12		54.12	57.03	2.91		.....		
	50	ι Pegasi.....	S	19.1	21.7	24.5	30.1	32.7	35.5	43.4	46.2	48.9	51.6	22. 2. 35.54		35.23	38.23	3.00		3.65		

Corrections for passage of Semidiameter, Nos. 1, 10, 17, 22, 23, 33, 37, 38, and 46, -65^s.50: +65^s.17: -65^s.43: -0^s.63: -65^s.38: -62^s.46: -0^s.63: -65^s.26: and -61^s.60.

- Cloudy; limb boiling violently.
- Observed over wires T, U, V, W, X, Y, and Z.
- Observed over wire T with the transit-micrometer set to readings 35^s.027, 34^s.953, 34^s.929, 34^s.750, 34^s.749, 34^s.688, 34^s.613, 34^s.577, 34^s.478, 34^s.409.
- Observed over wire O with the transit-micrometer set to readings 33^s.428, 33^s.649, 33^s.809, 33^s.987, 34^s.102, 34^s.183, 34^s.292, 34^s.427, 34^s.559, 34^s.668.
46. Correction to R.A. on true meridian +0^s.01.
- Observed over wire T with the transit-micrometer set to readings 36^s.603, 36^s.768, 37^s.013, 37^s.294, 37^s.397, 37^s.528, 37^s.939, 38^s.031, 38^s.113, 38^s.358.
- Observed over wire T with the transit-micrometer set to readings 37^s.624, 37^s.578, 37^s.532, 37^s.517, 37^s.360, 37^s.323, 37^s.302, 37^s.287, 37^s.210, 37^s.162.
- Observed over wire V with the transit-micrometer set to readings 35^s.682, 35^s.784, 35^s.840, 35^s.930, 36^s.003, 36^s.430, 36^s.532, 36^s.592, 36^s.662, 36^s.783.
- Observed over wire O with the transit-micrometer set to readings 33^s.730, 33^s.885, 34^s.007, 34^s.160, 34^s.610, 34^s.720, 34^s.850, 34^s.980, 35^s.347, 35^s.470.
- Diffused.
30. Diffused; cloudy. Observed over wires U, V, W, X, Y, and Z.
- 31, 36. Faint; cloudy.
32. Very cloudy. Reduction to D's centre at time of transit of crater -10^s.16. A further correction of -0^s.35 has been applied to reduce to time of transit of D's centre on true meridian.
- Observed over wire P with the transit-micrometer set to readings 34^s.594, 34^s.760, 35^s.025, 35^s.160, 35^s.700, 35^s.820, 35^s.956, 36^s.280, 36^s.460, 36^s.560.
- Observed over wire O with the transit-micrometer set to readings 34^s.984, 35^s.105, 35^s.222, 35^s.336, 35^s.500, 35^s.600, 35^s.680, 35^s.797, 35^s.906, 36^s.005.

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

1907 GOA 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). [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.						
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		"						h	m	s				
				s	s	s	s	s	s	s	s	s	s														
Aug. 24	1	β^1 Lyrae.....	WB	16.3	19.2	22.0	28.2	30.9	34.0	42.7	45.8	48.7	51.5	18.46.34.11	+ 4.82				2.27			.....					
	2	γ^2 Vulpeculae.....	S	13.8	16.6	19.3	25.2	27.9	30.9	39.0	41.8	44.6	47.3	20.50.30.82	(- 8.98)		33.97	36.54	2.57	[+ 0.35]		.....					
	3	ϵ Pegasi.....	S	16.0	18.3	20.8	26.0	28.4	31.1	38.3	41.0	43.4	46.0	21.39.31.09	[+ 6.46]		30.76	33.48	2.72	2.43		.....					
	4	α Aquarii.....	S	39.2	41.6	43.8	49.1	51.5	54.0	1.2	3.7	6.2	8.7	22.0.54.05			31.26	34.00	2.74			.....					
	5	ι Pegasi.....	S	...	24.2	30.2	32.5	35.4	43.3	46.2	48.8	51.5	22.2.35.45			54.34	57.07	2.73			.....						
	6	Saturn 1 L.....	S	8.2	10.8	13.3	18.5	21.0	23.4	30.9	33.4	36.1	38.6	22.8.23.58			35.42	38.26	2.84			.....					
	7	Saturn 2 L.....	S	9.2	11.8	14.3	19.5	22.0	24.8	32.0	34.7	37.2	39.8	22.8.24.69			24.60					22. 8. 27.35					
	8	γ Aquarii.....	S	29.8	32.3	34.7	39.6	42.1	44.8	51.9	54.5	56.8	59.3	22.16.44.73			45.04	47.75	2.71			.....					
	9	μ Pegasi.....	S	8.9	11.5	14.2	19.8	22.6	25.3	33.1	35.8	38.5	41.3	22.45.25.27			25.25	28.01	2.76			.....					
	10	Pollux.....	J	11.3	14.2	17.0	22.7	25.2	28.2	36.4	39.2	42.0	45.0	7.39.28.30			28.23	30.76	2.53	2.42		.....					
Aug. 25	11	$\odot$ 1 L.....	J	3.0	5.7	8.1	13.3	15.7	18.3	25.8	28.2	30.8	33.3	10.13.18.38								10. 14. 25.82					
	12	$\odot$ 2 L.....	J	12.4	14.9	17.5	22.8	25.2	27.8	35.2	37.8	40.2	42.7	10.15.27.81			23.25										
Aug. 26	13	μ Sagittarii.....	W	47.3	49.9	52.5	58.0	0.4	3.3	10.9	13.6	16.2	18.8	8.3.25	[+ 9.05]		4.01	7.38	3.37	3.03		.....					
	14	δ Ursae Minoris.....	W	41.6	45.3	49.1	53.8	10.1	13.3	18.3	22.3	35.3	38.7	18.3.225			53.52	56.83	3.31	[+ 0.50]		.....					
	15	η Serpentis.....	W	7.0	9.4	11.6	17.0	19.3	21.9	29.0	31.6	34.1	36.7	18.16.21.91			22.37	25.84	3.47			.....					
	16	β^1 Lyrae.....	W	...	18.3	21.4	27.5	29.9	33.2	41.6	44.7	47.5	...	18.46.33.19			33.12	36.51	3.39			.....					
	17	Cephei 51 S.P.....	W	3.6	7.4	11.5	15.0	26.7	30.8	34.1	37.7	50.9	54.2	18.55.52.78			3.54	6.72	3.18			.....					
Aug. 28	18	$\odot$ 2 L.....	E	10.2	12.7	15.1	20.4	22.6	25.3	32.7	35.2	37.6	40.2	10.26.25.35	+ 4.15		25.33			4.35		10. 25. 25.33					
	19	β^1 Lyrae.....	E	14.2	17.0	19.8	26.1	29.0	32.1	40.7	43.6	46.7	49.5	18.46.32.05	(- 9.87)		31.74	36.48	4.74	[+ 0.47]		.....					
	20	ϵ Aquilae.....	E	...	3.3	5.9	11.1	13.4	16.2	23.6	26.3	28.8	...	18.55.16.23	[+ 4.38]		16.15	20.88	4.73			.....					
	21	Cephei 51 S.P.....	E	41.0	46.4	53.4	58.6	39.5	52.4	56.7	2.4	19.4	23.9	18.55.54.55			2.92	7.65	4.73			.....					
Aug. 31	22	Polaris S.P.....	J	56.2	1.0	5.9	20.8	28.2	31.0	51.0	55.4	6.8	11.9	13.25.28.73	(- 9.00)		55.08	0.07	4.99	5.03		.....					
	23	σ Ophiuchi.....	J	29.4	32.0	34.4	39.4	41.9	44.6	51.6	54.1	56.6	59.2	17.21.44.47	[+ 8.64]		44.51	49.84	5.33	[+ 0.35]		.....					
	24	α Ophiuchi.....	J	12.6	15.2	17.6	23.0	25.3	27.9	35.3	37.8	40.3	43.0	17.30.27.96	[+ 3.30]		27.91	33.21	5.30			.....					
	25	Groombridge 3548.....	J	40.5	46.0	50.8	9.6	16.8	23.1	39.0	...	...	...	21.19.0.37			54.55	58.81	4.26			.....					
	26	ξ Aquarii.....	J	23.9	26.4	28.8	34.0	36.4	39.0	46.2	48.8	51.2	53.8	21.32.39.01			39.18	44.53	5.35			.....					
	27	γ Piscium.....	J	56.9	59.2	1.5	6.9	9.2	11.7	19.0	21.5	23.9	26.7	23.12.11.80			11.85	17.25	5.40			.....					
	28	Bradley 3147.....	J	15.8	22.7	30.8	4.0	10.2	17.6	40.1	45.3	53.5	10.9	23.28.18.04			11.98	18.38	6.40			.....					
	29	ι Piscium.....	J	...	...	...	56.3	58.6	1.3	8.7	11.0	13.4	15.8	23.35.1.28			1.31	6.60	5.29			.....					
Sept. 2	30	ζ Cygni.....	S	32.9	35.6	38.4	44.6	47.2	50.1	58.5	1.3	4.2	7.0	21.8.50.16	(- 9.73)		49.88	56.42	6.54	6.06		.....					
	31	α Equulei.....	S	45.7	48.3	50.7	55.6	58.3	0.7	8.0	10.7	...	...	21.11.0.79			0.78	7.27	6.49	[+ 0.50]		.....					
	32	α Aquarii.....	S	35.5	37.9	40.5	45.6	47.8	50.6	57.6	0.2	2.7	5.2	22.0.50.51			50.57	57.09	6.52			.....					
	33	Saturn 1 L.....	S	...	...	...	40.8	43.0	45.6	53.0	55.5	58.2	0.7	22.5.45.69								22. 5. 52.99					
	34	Saturn 2 L.....	S	...	...	...	41.7	44.2	46.9	54.1	56.8	59.3	1.8	22.5.46.83			46.47										
	35	θ Aquarii.....	S	30.3	32.8	35.2	40.7	42.9	45.4	52.8	55.2	57.6	0.2	22.11.45.47			45.61	52.09	6.48			.....					
Sept. 3	36	$\odot$ 1 L.....	HF	48.7	51.2	53.6	58.8	1.2	3.7	11.0	13.6	16.1	18.7	10.46.3.82						6.41		10. 47. 14.66					
	37	$\odot$ 2 L.....	HF	...	59.5	2.2	7.3	9.6	12.3	19.6	22.1	24.7	...	10.48.12.31			8.03										
	38	Arcturus.....	W	...	0.3	2.8	...	...	...	21.2	23.8	26.6	29.0	14.11.13.57			13.40	20.11	6.71			.....					
	39	δ 1 L.....	W	22.4	25.0	27.5	32.9	35.3	38.1	45.5	48.1	50.8	53.5	14.23.38.07			38.23					14. 24. 54.05					
Sept. 4	40	σ Ophiuchi.....	JS	...	...	...	40.2	42.7	49.7	52.4	54.7	57.2	17.21.42.65	+ 3.82		42.63	49.77	7.14	6.76		.....						
	41	α Ophiuchi.....	JS	10.8	13.3	15.7	21.0	23.4	26.2	33.5	...	...	...	17.30.26.11	(- 10.50)		25.98	33.14	7.16	[+ 0.54]		.....					
	42	β Ophiuchi.....	JS	26.5	28.9	31.3	36.5	38.8	41.3	48.7	51.2	53.5	56.1	17.38.41.43	[+ 3.98]		41.40	48.57	7.17			.....					
	43	ψ Sagittarii.....	JS	21.5	24.2	26.9	32.6	35.3	38.0	45.9	48.9	51.6	54.4	19.9.38.10			38.48	45.64	7.16			.....					
	44	λ Ursae Minoris.....	JS	48.7	55.7	2.7	19.4	25.3	31.6	47.8	56.1	10.7	16.3	19.17.27.55			0.97	8.12	7.15			.....					
Sept. 5	45	δ 1 L.....	E	25.7	28.3	...	36.7	...	41.9	49.4	52.3	54.9	57.7	16.21.41.85	(- 11.04)		42.07			7.65		16. 22. 59.71					
	46	μ Aquarii.....	WB	11.3	13.9	16.3	21.5	23.9	26.5	33.7	36.3	38.7	41.3	20.47.26.50	[+ 3.58]		26.61	34.55	7.94	[+ 0.46]		.....					

Corrections for passage of Semidiameter, Nos. 18, 39, and 45, $-64^s.55$; $69^s.10$; and $+69^s.67$.

14. Observed over wire X with the transit-micrometer set to readings $43^s.511$, $43^s.598$, $43^s.680$, $43^s.812$, $44^s.190$, $44^s.240$, $44^s.382$, $44^s.481$, $44^s.792$, $44^s.872$.
 16, 31. Very faint; cloudy.
 17. Observed over wire X with the transit-micrometer set to readings $38^s.990$, $38^s.924$, $38^s.851$, $38^s.762$, $38^s.530$, $38^s.475$, $38^s.400$, $38^s.302$, $38^s.052$, $37^s.981$.
 18, 21, 25, 28, 38, 41. Cloudy.
 21. Observed over wire S with the transit-micrometer set to readings $35^s.759$, $35^s.645$, $35^s.514$, $34^s.650$, $34^s.587$, $34^s.321$, $34^s.246$, $34^s.125$, $33^s.777$, $33^s.690$.
 22. Observed over wire T with the transit-micrometer set to readings $37^s.457$, $37^s.437$, $37^s.366$, $37^s.266$, $37^s.208$, $37^s.183$, $37^s.013$, $36^s.970$, $36^s.874$, $36^s.832$.
 25. Observed over wire X with the transit-micrometer set to readings $44^s.847$, $44^s.959$, $45^s.088$, $45^s.488$, $45^s.643$, $45^s.842$, $46^s.197$.
 28. Observed over wire O with the transit-micrometer set to readings $27^s.959$, $28^s.139$, $28^s.313$, $29^s.072$, $29^s.223$, $29^s.379$, $29^s.882$, $30^s.007$, $30^s.193$, $30^s.618$.
 29. Very cloudy.
 33, 34, 35. Barely visible; cloudy.
 39. Faint and unsteady. Barely visible. Correction to R.A. on true meridian, $+0^s.01$.
 44. Observed over wire Q with the transit-micrometer set to readings $34^s.774$, $34^s.827$, $34^s.870$, $34^s.979$, $35^s.054$, $35^s.075$, $35^s.200$, $35^s.244$, $35^s.325$, $35^s.394$.
 45. Cloudy. Correction to R.A. on true meridian, $+0^s.01$.

MO.	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 G. Sidereal and [Lossing Rate].	Apparent R.A. of Centre from the Observation.	
				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
Sept. 12	1	η Piscium.....	SD	44.6	47.1	49.7	55.0	57.4	0.1	7.5	10.2	12.7	15.3	1. 26. 0.12	+ 4.15		0.10	26.76	26.66	26.61	1. 26. 26.73	
	2	ν Piscium.....	SD	49.9	52.5	54.8	0.1	2.6	5.1	12.2	14.8	17.3	19.7	1. 36. 5.05	(- 8.46)		5.13	31.86	26.73	[+ 0.37]	1. 36. 31.76	
	3	Venus 2 L.....	E	28.8	31.4	33.9	39.3	41.6	44.5	51.9	54.6	57.2	59.8	9. 3. 44.46	[+ 3.92]		44.42			26.55	9. 4. 10.61	
	4	Regulus.....	E	...	...	42.2	47.4	49.7	52.6	59.6	2.5	...	...	10. 3. 52.47			52.47	19.20	26.73	[+ 0.43]	.....	
	5	γ ¹ Leonis.....	E	1.9	4.7	7.1	12.6	14.9	17.9	25.3	28.2	30.8	33.4	10. 14. 17.84			17.77	44.50	26.73		.....	
	6	Mercury 2 L.....	E	38.0	40.7	43.0	48.4	50.6	53.3	0.7	3.2	5.7	8.3	10. 16. 53.35			53.36				10. 17. 19.83	
Sept. 13	7	β Ophiuchi.....	JS	6.7	9.3	11.6	16.8	19.2	21.7	28.9	31.4	33.8	36.6	17. 38. 21.75			21.83	48.41	26.58	26.29	.....	
	8	89 Herculis.....	JS	53.5	56.3	59.0	4.7	7.3	10.3	18.2	21.0	23.6	26.5	17. 51. 10.21			10.08	36.71	26.63		.....	
	9	89 Herculis.....(E&E)	JS	7.8	24.4	40.8	57.5	13.7	30.4	47.3	...	...	...	17. 51. 9.89			9.76	36.71	26.95		.....	
Sept. 14	10	⊙ 2 L.....	RC	...	15.6	17.9	23.2	25.6	28.2	35.3	37.9	40.2	...	11. 27. 28.14			28.23			27.07	[+ 0.37]	11. 26. 51.49
	11	89 Herculis.....	JS	53.1	55.7	58.6	4.3	6.9	9.7	17.7	20.6	23.3	26.1	17. 51. 9.77			9.64	36.69	27.05	26.76		
	12	89 Herculis.....(E&E)	JS	...	24.1	40.5	57.3	13.5	30.0	...	...	...	...	17. 51. 9.59			9.46	36.69	27.25			.....
	13	72 Ophiuchi.....	JS	10.2	12.7	15.2	20.5	22.8	25.4	32.7	35.2	37.6	40.2	18. 2. 25.41			25.43	52.46	27.03			.....
	14	72 Ophiuchi.....(E&E)	JS	27.4	42.5	57.5	12.9	27.6	42.4	57.9	...	...	...	18. 2. 25.09			25.11	52.46	27.35			.....
	15	δ Ursæ Minoris.....	JS	43.5	50.1	54.7	59.3	14.6	19.3	23.6	37.9	42.6	47.6	18. 2. 27.46			21.77	49.17	27.40			.....
	16	μ Sagittarii.....	RC	...	...	...	...	...	47.0	49.6	52.0	55.0	18. 7. 39.23			39.61	7.06	27.45	27.07		18. 8. 6.96	
	17	η Serpentis.....	RC	43.0	45.6	47.9	53.1	55.4	58.1	5.2	7.6	10.1	12.8	18. 15. 58.03			58.19	25.53	27.34			18. 16. 25.54
	18	α Lyrae.....	RC	58.7	1.7	4.9	11.5	14.7	17.6	27.0	30.2	33.3	36.4	18. 33. 17.79			17.52	44.94	27.42			18. 33. 44.87
	19	Groombridge 3548.....	RC	20.1	26.7	32.4	43.3	49.0	57.6	1.6	...	...	...	21. 18. 35.43			29.69	55.96	26.27			.....
	20	θ Aquarii.....	RC	9.3	12.1	14.4	19.4	22.1	24.7	31.8	34.2	36.9	39.1	22. 11. 24.56			24.77	52.09	27.32			22. 11. 52.18
	21	γ Aquarii.....	RC	5.4	7.7	10.3	15.3	17.6	20.2	27.3	29.8	32.5	34.8	22. 16. 20.24			20.39	47.79	27.40			22. 16. 47.80
	22	μ Pegasi.....	RC	44.3	47.2	49.9	55.5	58.0	0.8	8.7	11.3	14.0	16.8	22. 45. 0.82			0.71	28.09	27.38			22. 45. 28.13
	23	Bradley 3147.....	RC	33.6	40.9	47.7	3.1	9.2	14.5	27.6	35.0	40.3	54.8	23. 27. 57.68			51.71	18.78	27.07			.....
	24	δ Sculptoris.....	RC	16.7	19.6	22.3	28.2	30.7	33.6	41.7	44.7	47.3	50.3	23. 43. 33.69			34.19	1.55	27.36			23. 44. 1.63
	25	γ Pegasi.....	RC	40.9	43.2	45.6	51.2	53.6	56.1	3.5	6.2	8.7	11.2	0. 7. 56.18			56.16	23.58	27.42	27.44		0. 8. 23.60
	26	Bradley 1672 S.P.....	RC	10.0	15.6	19.5	33.0	37.7	41.7	51.0	55.9	0.3	10.7	0. 12. 51.43			1.85	29.78	27.93			.....
	27	ι Ceti.....	RC	55.2	57.6	0.2	5.3	7.6	10.3	17.6	20.2	22.7	25.2	0. 14. 10.35			10.58	38.00	27.42			0. 14. 38.02
	28	⊙ 2 L.....	RC	49.0	51.4	53.9	59.2	1.6	4.2	11.4	13.9	16.4	19.2	0. 26. 4.17			4.31					0. 25. 30.60
	29	μ Andromedæ.....	RC	46.1	49.2	52.4	58.7	1.4	5.0	14.2	17.3	20.3	23.5	0. 51. 5.00			4.73	32.21	27.48			0. 51. 32.18
	30	μ Andromedæ.....(E&E)	RC	55.9	15.0	33.4	52.7	11.3	30.0	49.2	...	...	...	0. 51. 5.05			4.78	32.21	27.43			.....
	31	ξ ¹ Piscium.....	RC	6.2	8.7	11.2	16.3	18.6	21.0	28.6	31.1	33.5	35.8	1. 8. 21.26			21.32	48.83	27.51			1. 8. 48.78
	32	Polaris.....	RC	19.6	27.6	33.2	46.1	51.3	58.2	13.3	19.3	24.4	38.7	1. 25. 57.40			41.64	9.34	27.70			.....
	33	Venus 2 L.....	J	...	...	...	...	...	27.3	29.6	32.3	35.0	6.3	9. 13. 19.71	(- 7.88)		19.73			26.96	[+ 0.35]	9. 13. 46.30
Sept. 15	34	⊙ 1 L.....	J	40.6	43.0	45.4	50.8	53.0	55.6	2.8	5.5	7.9	10.2	11. 28. 55.63			59.67				11. 30. 26.80	
	35	⊙ 2 L.....	J	48.2	50.9	53.4	58.3	0.8	3.3	10.5	13.3	15.7	18.2	11. 31. 3.41								
	36	Polaris S.P.....	J	36.1	39.1	43.6	58.1	26.6	30.6	33.8	46.3	49.7	53.6	13. 25. 27.28			42.25	9.61	27.36			.....
	37	α Coronæ.....	J	56.7	59.2	2.0	7.8	10.4	13.4	21.4	24.1	26.9	29.6	15. 30. 13.32			13.22	40.44	27.22			15. 30. 40.41
	38	μ Herculis.....	J	1.6	4.4	7.2	12.9	15.6	18.7	26.7	29.5	32.3	35.1	17. 42. 18.58			18.47	45.71	27.24			17. 42. 45.69
	39	89 Herculis.....	J	52.7	55.5	58.2	4.0	6.6	9.4	17.3	20.3	23.0	25.6	17. 51. 9.43			9.35	36.67	27.32			17. 51. 36.57
	40	72 Ophiuchi.....	E	9.5	11.9	14.4	19.6	22.1	24.7	31.9	34.6	37.0	39.4	18. 2. 24.67			24.74	52.44	27.70	27.43		.....
	41	δ Ursæ Minoris.....	E	43.7	50.8	56.2	1.0	6.0	10.7	15.2	19.6	24.2	28.1	18. 2. 26.79			21.34	48.78	27.44			.....
	42	μ Sagittarii.....	E	22.9	25.4	28.1	33.6	36.1	39.0	46.7	49.3	52.0	54.7	18. 8. 38.94			39.37	7.04	27.67			.....
	43	η Serpentis.....	WB	42.9	45.3	47.5	52.7	55.3	57.8	5.0	7.4	9.8	12.5	18. 16. 57.77			57.98	25.51	27.53	27.30		.....
	44	α Lyrae.....	WB	58.4	1.4	4.6	11.3	14.1	17.4	26.7	30.0	33.1	36.4	18. 33. 17.53			17.31	44.92	27.61			.....
	45	ξ Aquarii.....	J	1.6	4.4	6.7	11.9	14.3	16.9	24.1	26.8	29.1	31.6	21. 32. 16.90			17.16	44.47	27.31	26.96		21. 32. 44.44
	46	ε Pegasi.....	J	...	...	...	1.6	4.0	6.8	13.9	16.7	19.1	21.6	21. 39. 6.75			6.83	33.96	27.13			21. 39. 34.11
	47	Saturn 1 L.....	J	40.5	42.8	45.3	50.7	52.9	55.4	3.0	5.5	8.1	10.7	22. 1. 55.65			56.59				22. 2. 23.87	
	48	Saturn 2 L.....	J	41.6	44.1	46.5	51.6	54.1	56.8	4.2	6.8	9.3	11.9	22. 1. 56.85								
	49	α Pegasi.....	J	21.7	24.3	27.0	32.3	34.7	37.3	44.7	47.3	49.8	52.6	22. 59. 37.33			37.36	4.65	27.29			23. 0. 4.65

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 9, 14, and 30, - 107^s.68 : - 107^s.66 : and - 107^s.63.
 Corrections for passage of Semidiameter, Nos. 3, 6, 10, 28, and 33, - 0^s.52 : and - 0^s.26 : - 63^s.99 : - 61^s.17 : and - 0^s.52.

3. Clouds passing.
 15. Observed over wire O with the transit-micrometer set to readings 32^r.000, 32^r.150, 32^r.261, 32^r.408, 32^r.743, 32^r.865, 32^r.968, 33^r.305, 33^r.432, 33^r.529.
 19. Observed over wire X with the transit-micrometer set to readings 44^r.922, 45^r.073, 45^r.211, 45^r.480, 45^r.650, 45^r.780, 45^r.903.
 23. Observed over wire O with the transit-micrometer set to readings 30^r.209, 30^r.355, 30^r.537, 30^r.863, 31^r.030, 31^r.152, 31^r.441, 31^r.596, 31^r.712, 32^r.057.
 26. Observed over wire Q with the transit-micrometer set to readings 35^r.691, 35^r.648, 35^r.580, 35^r.365, 35^r.311, 35^r.301, 35^r.190, 35^r.113, 35^r.078, 34^r.950.
 28. Correction to R.A. on true meridian, + 0^s.01.
 32. Observed over wire P with the transit-micrometer set to readings 35^r.225, 35^r.311, 35^r.360, 35^r.510, 35^r.543, 35^r.580, 35^r.700, 35^r.750, 35^r.805, 35^r.923.
 33. Very ill-defined; cloudy. Observed over wires U, V, W, X, and Z.
 36. Observed over wire T with the transit-micrometer set to readings 36^r.562, 36^r.521, 36^r.473, 36^r.327, 36^r.104, 36^r.081, 36^r.062, 35^r.947, 35^r.918, 35^r.897.
 41. Observed over wire T with the transit-micrometer set to readings 37^r.422, 37^r.608, 37^r.730, 37^r.844, 37^r.975, 38^r.077, 38^r.175, 38^r.283, 38^r.400, 38^r.499.

25. Very diffused.

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

1907G0ANM.679

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 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.									
				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																	
Sept. 16	1	⊙ 1 L.....	JS	15.4	17.8	20.3	25.4	27.6	30.4	37.5	40.2	42.7	45.0	11. 32. 30.38	+ 4.15	{ 34.43			27.44	[+ 0.39]	11. 34. 2.06									
	2	⊙ 2 L.....	JS	23.2	25.6	28.0	33.2	35.5	38.1	45.3	47.8	50.5	53.0	11. 34. 38.17	(- 7.88)															
	3	β Ophiuchi.....	JS	5.6	8.1	10.6	15.6	17.7	20.6	27.6	30.2	32.7	35.2	17. 38. 20.54	[+ 4.39]			20.67	48.36		27.69									
	4	μ Herculis.....	JS	1.1	4.0	6.8	12.5	15.1	18.1	26.1	29.0	31.6	34.7	17. 42. 18.07				17.96	45.68		27.72									
	5	89 Herculis.....	JS	52.3	55.0	57.6	3.3	5.9	9.0	16.9	19.7	22.7	25.2	17. 51. 8.93				8.85	36.64		27.79									
	6	89 Herculis.....(E&E)	JS	6.3	23.0	39.4	56.1	12.3	28.5	45.4	...	...	...	17. 51. 8.74				8.66	36.64		27.98									
	7	72 Ophiuchi.....	JS	9.4	11.8	14.5	19.5	21.6	24.7	31.8	34.3	36.9	...	18. 2. 24.55				24.62	52.43		27.81									
	8	72 Ophiuchi.....(E&E)	JS	26.3	41.4	56.3	11.6	26.5	41.3	56.6	...	...	21.4	18. 2. 24.30				24.37	52.43		28.06									
	9	δ Ursæ Minoris.....	JS	40.4	47.2	52.8	9.2	13.0	18.9	31.2	36.9	42.0	52.5	18. 2. 25.50				20.05	48.39		28.34									
	10	Cephei 51 S.P.....	JS	0.6	8.3	13.0	40.7	46.7	51.6	5.1	11.5	16.3	39.4	18. 55. 42.11				48.44	16.34		27.90									
	11	ψ Sagittarii.....	JS	0.7	3.4	6.1	11.7	14.4	17.2	25.3	27.9	30.6	33.5	19. 9. 17.25				17.74	45.44		27.70									
	12	λ Ursæ Minoris.....	JS	28.8	34.8	39.4	51.8	56.9	5.4	9.7	23.5	28.7	36.1	19. 16. 43.19				24.90	52.84		27.94									
	13	μ Aquilæ.....	JS	4.6	3.48	51.0	56.3	58.7	1.2	8.4	11.1	13.5	15.9	19. 29. 1.26				1.37	29.13		27.76									
	14	h ² Sagittarii.....	JS	...	16.4	18.8	24.6	27.2	30.0	37.7	40.8	43.3	...	19. 30. 30.02				30.51	58.16		27.65									
	15	e ¹ Sagittarii.....	JS	35.6	38.2	40.8	46.1	48.5	51.2	58.7	1.4	3.9	6.4	19. 34. 51.24				51.61	19.31		27.70									
	16	c Sagittarii.....	JS	6.6	9.3	12.0	17.7	20.3	23.4	31.4	34.5	37.1	39.8	19. 56. 23.39				23.92	51.77		27.85									
	17	Groombridge 1119 S.P.....	JS	7.4	17.3	22.0	37.2	45.6	51.2	4.0	9.5	14.4	23.0	20. 2. 21.30				37.83	4.85		27.02									
	18	Groombridge 3548.....	JS	17.7	25.3	30.8	52.4	59.8	5.7	18.6	25.0	30.5	42.2	21. 18. 33.61				28.11	55.54		27.43									
	19	ε Pegasi.....	JS	...	...	...	1.0	3.4	6.0	13.4	15.9	18.4	20.9	21. 39. 6.07			6.15	33.95	27.80											
Sept. 17	20	⊙ 1 L.....	WB	50.0	52.3	54.8	0.0	2.4	5.0	12.1	14.7	17.2	19.5	11. 36. 4.95	{ 9.09			28.00	[+ 0.44]	11. 37. 37.30										
	21	⊙ 2 L.....	WB	57.9	0.3	2.7	8.0	10.1	12.9	20.2	22.7	25.2	27.6	11. 38. 12.91																
	22	ι Capricorni.....	WB	15.8	18.5	20.9	26.2	28.8	31.4	38.7	41.6	44.3	46.8	21. 16. 31.46			31.83	0.24		28.41										
	23	β Aquarii.....	WB	52.7	55.2	57.3	2.7	5.0	7.5	14.8	17.3	19.7	22.3	21. 26. 7.61			7.85	36.24		28.39										
	24	ξ Aquarii.....	WB	0.7	3.2	5.6	10.7	13.2	15.8	23.0	25.7	28.2	30.7	21. 32. 15.84			16.10	44.46		28.36										
	25	ξ ² Ceti.....	S	...	...	...	35.4	37.8	40.3	47.6	50.2	52.7	55.1	2. 22. 40.39			40.49	9.07		28.58	28.53									
	26	ν Ceti.....	S	12.2	14.7	17.0	22.2	24.4	27.2	34.3	36.9	39.4	41.7	2. 30. 27.16			27.29	55.84		28.55										
	27	δ Ceti.....	S	55.5	57.9	0.4	5.4	7.7	10.6	17.6	20.2	22.7	25.1	2. 34. 10.46			10.64	39.25		28.61										
	28	δ 2 L.....	S	...	...	...	...	...	...	18.2	20.8	23.3	25.8	2. 46. 10.71		10.78				2. 45. 37.27										
Sept. 18	29	δ Ursæ Minoris.....	JS	23.0	29.5	34.6	42.1	56.8	1.8	6.8	20.1	24.2	28.3	18. 2. 24.51	+ 4.11	19.01	47.58	28.57	28.24	.....										
	30	η Serpentis.....	JS	41.6	44.3	...	51.9	54.1	56.8	...	...	...	11.3	18. 15. 56.74	(- 8.53)	56.88	25.46	28.58	[+ 0.50]	.....										
	31	2 Aquilæ.....	JS	22.6	24.9	27.3	32.6	34.9	37.5	44.8	47.3	49.7	52.4	18. 36. 37.56	[+ 3.49]	37.77	6.43	28.66		.....										
	32	β ¹ Lyrae.....	WB	49.4	52.6	55.3	1.3	4.4	7.3	15.8	19.1	21.8	24.9	18. 46. 7.37		7.16	36.03	28.87	28.43	.....										
	33	ε Aquilæ.....	WB	36.5	38.9	41.3	46.8	49.1	51.7	59.2	1.6	4.6	6.9	18. 54. 51.82		51.77	20.54	28.77		.....										
	34	ζ Aquilæ.....	JS	20.6	23.1	25.6	30.9	33.2	35.9	43.3	46.0	48.4	51.0	19. 0. 35.96		35.92	4.57	28.65	28.24	.....										
	35	δ 2 L.....	W	...	21.0	23.4	28.7	31.3	34.1	41.7	44.4	47.0	...	3. 34. 34.10		34.07	...	...	29.02	3. 34. 0.04										
	36	γ ¹ Eridani.....	W	53.0	55.6	57.8	3.4	5.9	8.4	15.7	18.4	20.9	23.6	3. 53. 8.43		8.69	37.79	29.10		.....										
	37	γ Tauri.....	W	41.0	43.5	46.0	51.3	53.6	56.3	3.9	6.5	9.0	11.6	4. 14. 56.43		56.39	25.49	29.10		.....										
	38	Jupiter 1 L.....	W	13.6	...	19.0	...	...	29.6	...	40.1	...	45.4	4. 18. 29.67	{ 31.10															
	39	Jupiter 2 L.....	W	16.8	...	21.9	...	...	32.8	...	43.1	...	48.2	4. 18. 32.72		(- 8.86)					4. 19. 0.21									
Sept. 19	40	Arcturus.....	RC	34.9	37.5	40.0	45.5	47.9	50.7	58.3	1.0	3.6	6.3	14. 10. 50.73	[+ 1.33]	50.53	19.92	29.39	29.27	14. 11. 20.01										
	41	α Coronæ.....	RC	54.5	57.1	59.9	5.7	8.2	11.3	19.3	22.1	24.7	27.6	15. 30. 11.21		10.96	40.37	29.41	[+ 0.36]	15. 30. 40.46										
	42	λ Ursæ Minoris.....	RC	56.0	3.3	8.6	21.2	27.5	33.9	47.2	54.3	0.8	16.7	19. 16. 33.80		19.45	49.02	29.57		.....										
	43	δ Aquilæ.....	RC	0.2	2.7	5.0	10.1	12.7	15.3	22.3	24.8	27.3	29.6	19. 20. 15.15		15.10	44.66	29.56		19. 20. 44.66										
	44	α Vulpeculæ.....	WB	...	...	...	12.7	15.2	18.0	25.8	28.7	31.3	34.1	19. 24. 18.04		17.80	47.16	29.36	29.11	.....										
	45	μ Aquilæ.....	RC	44.5	47.0	49.5	54.6	57.0	59.6	6.8	9.4	11.6	14.3	19. 28. 59.59		59.50	29.08	29.58	29.27	19. 29. 29.06										
	46	e ¹ Sagittarii.....	RC	34.1	36.5	39.0	44.6	46.7	49.4	56.9	59.5	2.0	4.8	19. 34. 49.51		49.65	19.26	29.61		19. 35. 19.21										
	47	γ Aquilæ.....	WB	2.3	4.8	7.3	12.4	14.9	17.4	24.8	27.3	29.8	32.3	19. 41. 17.49		17.38	46.79	29.41	29.11	.....										
	48	α Aquilæ.....	WB	26.7	29.2	31.5	36.9	39.3	41.8	49.0	51.6	54.1	56.6	19. 45. 41.83		41.73	11.16	29.43		.....										
	49	β Aquilæ.....	E	56.7	59.1	1.4	6.8	9.1	11.5	18.9	21.3	23.6	26.4	19. 50. 11.64		11.56	41.06	29.50	29.20	.....										
	50	θ Aquilæ.....	E	42.2	44.7	47.0	52.3	54.5	57.0	4.3	6.9	9.2	11.6	20. 5. 57.12		57.11	26.60	29.49		.....										
	51	β Aquarii.....	RC	51.5	53.8	56.4	1.3	3.8	6.5	13.7	16.3	18.7	21.2	21. 26. 6.48		6.52	36.22	29.70	29.27	21. 26. 36.11										

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 6, and 8, - 107^s.28 : and - 107^s.28.
Corrections for passage of Semidiameter, Nos. 28, and 35, - 62^s.09 : and - 63^s.12.

9. Observed over wire Q with the transit-micrometer set to readings 34^r.320, 34^r.474, 34^r.617, 35^r.005, 35^r.107, 35^r.239, 35^r.517, 35^r.670, 35^r.779, 36^r.031.
10. Observed over wire O with the transit-micrometer set to readings 36^r.533, 36^r.355, 36^r.247, 35^r.702, 35^r.607, 35^r.492, 35^r.225, 35^r.106, 35^r.016, 34^r.937.
12. Observed over wire T with the transit-micrometer set to readings 37^r.577, 37^r.637, 37^r.689, 37^r.773, 37^r.818, 37^r.862, 37^r.900, 37^r.998, 38^r.026, 38^r.072.
17. Observed over wire X with the transit-micrometer set to readings 37^r.645, 37^r.568, 37^r.528, 37^r.396, 37^r.329, 37^r.304, 37^r.212, 37^r.152, 37^r.117, 37^r.057.
18. Observed over wire W with the transit-micrometer set to readings 34^r.583, 34^r.738, 34^r.867, 35^r.386, 35^r.559, 35^r.725, 36^r.003, 36^r.172, 36^r.316, 36^r.600.
28. Very cloudy ; limb barely visible.
29. Observed over wire R with the transit-micrometer set to readings 34^r.706, 34^r.860, 34^r.978, 35^r.141, 35^r.483, 35^r.616, 35^r.741, 36^r.059, 36^r.166, 36^r.264.
35. Faint ; observed through cloud.
37. Faint.
38. A correction of - 0^s.03 for defect of illumination has been applied in forming the concluded transit.
38, 39. Ill-defined.
42. Observed over wire T with the transit-micrometer set to readings 35^r.341, 35^r.407, 35^r.440, 35^r.528, 35^r.550, 35^r.586, 35^r.693, 35^r.735, 35^r.770, 35^r.890.

Corrections for passage of Semidiameter, Nos. 26, 32, and 35, $-67^{\circ}98$: $-68^{\circ}22$: and $-0^{\circ}43$.

11. Observed over wire O with the transit-micrometer set to readings $35^{\circ}6'00$, $35^{\circ}8'50$, $36^{\circ}0'54$, $36^{\circ}3'40$, $36^{\circ}5'58$, $36^{\circ}8'59$, $37^{\circ}0'89$, $37^{\circ}3'13$, $37^{\circ}4'92$, $37^{\circ}7'14$.
15. Observed over wire T with the transit-micrometer set to readings $35^{\circ}7'38$, $35^{\circ}1'43$, $35^{\circ}0'47$, $34^{\circ}9'58$, $34^{\circ}8'34$, $34^{\circ}6'81$, $34^{\circ}5'71$, $34^{\circ}4'53$, $34^{\circ}2'21$, $34^{\circ}0'77$.
26, 32. Correction to R.A. on true meridian $+0^{\circ}01$.
36. Observed over wire T with the transit-micrometer set to readings $37^{\circ}1'96$, $37^{\circ}1'57$, $37^{\circ}1'15$, $36^{\circ}6'66$, $36^{\circ}9'20$, $36^{\circ}7'96$, $36^{\circ}3'68$, $36^{\circ}7'27$, $36^{\circ}5'90$, $36^{\circ}5'54$.
41. Observed over wire U with the transit-micrometer set to readings $35^{\circ}2'93$, $35^{\circ}2'07$, $35^{\circ}1'39$, $34^{\circ}8'27$, $34^{\circ}7'75$, $34^{\circ}5'58$, $34^{\circ}5'38$, $34^{\circ}4'45$, $34^{\circ}2'18$, $34^{\circ}1'57$.
45. Observed over wire Q with the transit-micrometer set to readings $34^{\circ}8'70$, $34^{\circ}9'05$, $34^{\circ}9'39$, $35^{\circ}1'68$, $35^{\circ}2'45$, $35^{\circ}3'59$, $35^{\circ}4'00$, $35^{\circ}5'40$, $35^{\circ}5'78$, $35^{\circ}6'40$.
47, 48, 49. Cloudy.

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.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
				s	s	s	s	s	s	s	s	s	s							
Nov. 15	1	δ Ceti.....	BE	31.8	34.3	36.8	41.7	44.1	46.7	54.0	56.3	58.8	1.3	2. 33. 46.73	+ 4.48	46.83	39.98	53.15	52.98	.....
	2	γ ² Ceti.....	JS	...	...	23.1	28.2	30.5	33.2	40.3	42.9	...	...	2. 37. 33.16	(- 6.16)	33.24	25.92	52.68	52.70	2. 38. 25.99
	3	α Ceti.....	JS	...	16.8	19.3	24.2	26.7	29.3	36.5	38.9	41.4	...	2. 56. 29.29	[+ 1.10]	29.36	22.08	52.72	...	2. 57. 22.12
	4	Groombridge 2283 S.P.	JS	22.0	30.3	35.3	41.0	47.0	52.6	58.7	3.0	8.8	14.4	3. 5. 52.31		53.74	46.14	52.40	...	...
	5	ο Tauri.....	JS	37.5	40.0	42.5	47.6	50.0	52.7	59.8	2.4	4.8	7.4	3. 18. 52.63		52.67	45.43	52.76	...	3. 19. 45.44
	6	Jupiter 1 L.....	JS	36.2	...	41.2	...	...	...	...	2.4	...	7.4	4. 1. 52.00		...	...	...	...	...
	7	Jupiter 2 L.....	JS	39.3	...	44.4	...	...	...	...	5.7	...	10.8	4. 1. 55.25		53.61	...	...	...	4. 2. 46.39
	8	ε Tauri.....	E	58.7	1.3	...	9.4	12.0	14.8	22.3	...	27.6	30.3	4. 22. 14.70		14.68	7.81	53.13	53.07	.....
	9	Aldebaran.....	E	23.0	25.4	28.0	33.4	35.7	38.6	46.1	48.8	51.2	53.6	4. 29. 38.54		38.55	31.74	53.19	...	...
	10	τ Tauri.....	JS	11.2	27.4	30.0	32.7	...	...	...	...	...	...	4. 35. 43.57		43.53	36.31	52.78	52.70	4. 36. 36.32
Nov. 16	11	γ Aquilæ.....	BE	37.2	39.4	42.0	47.2	49.6	52.2	59.6	2.0	4.7	7.2	19. 40. 52.27	(- 5.79)	52.30	45.81	53.51	53.07	.....
	12	α Aquilæ.....	BE	1.5	4.1	6.4	11.6	13.9	16.7	23.9	26.5	29.0	31.4	19. 45. 16.66	[+ 0.66]	16.70	10.20	53.50	...	...
	13	Saturn 1 L.....	BE	45.3	47.8	50.3	55.6	58.1	0.8	8.3	10.8	13.3	16.0	21. 56. 0.79		...	...	...	...	...
	14	Saturn 2 L.....	BE	46.5	49.0	51.4	56.8	59.2	1.8	9.4	12.0	14.4	17.0	21. 56. 1.91		1.52	...	...	...	21. 56. 55.03
	15	α Aquarii.....	BE	47.8	50.2	52.7	57.8	0.2	2.9	10.0	12.4	15.0	17.4	22. 0. 2.79		2.89	56.38	53.49	...	...
	16	γ Aquarii.....	BE	38.6	41.0	43.4	48.7	51.0	53.6	0.8	3.2	5.8	8.2	22. 15. 53.58		53.68	47.16	53.48	...	...
	17	κ Piscium.....	BE	57.7	0.2	2.7	7.7	10.1	12.7	19.7	22.3	24.8	27.4	23. 22. 12.68		12.76	6.30	53.54	...	...
	18	Bradley 3147.....	BE	48.3	56.8	15.0	23.0	34.4	41.3	53.9	0.0	13.4	22.3	23. 27. 14.59		13.85	7.38	53.53	...	...
	19	δ 2 L.....	B	...	...	...	13.2	15.3	18.3	26.1	28.8	31.4	34.2	7. 22. 18.33		18.32	...	...	53.55	7. 22. 5.07
Nov. 19	20	Venus 1 L.....	J	51.3	53.7	56.2	1.5	3.9	6.6	13.9	16.5	19.2	21.5	14. 19. 6.55	+ 4.19	...	...	...	...	...
	21	Venus 2 L.....	J	51.9	54.5	56.9	2.1	4.3	7.3	14.7	17.3	19.8	22.1	14. 19. 7.25	(- 6.53)	6.85	...	...	54.46	14. 20. 1.67
Nov. 20	22	⊙ 1 L.....	J	34.1	36.8	39.4	44.7	47.3	49.8	57.6	0.4	2.9	5.6	15. 38. 50.02		...	...	...	...	...
	23	⊙ 2 L.....	J	52.1	54.7	57.3	2.7	5.3	7.8	15.6	18.2	20.7	23.3	15. 41. 7.93		58.97	...	...	...	15. 40. 53.82
	24	α Lyrae.....	J	...	32.4	35.6	42.3	45.4	48.8	57.7	1.0	4.3	...	18. 32. 48.63		48.39	43.40	55.01	...	...
	25	α Aquilæ.....	J	0.2	2.8	5.2	10.4	12.7	15.4	22.7	25.2	27.6	30.2	19. 45. 15.40		15.25	10.16	54.91	...	...
	26	β Aquilæ.....	J	30.3	32.7	35.1	40.2	42.7	45.2	52.4	55.0	57.4	59.9	19. 49. 45.25		45.11	40.07	54.96	...	...
	27	θ Aquilæ.....	J	15.6	18.3	20.8	25.7	28.2	30.8	37.9	40.5	43.0	45.3	20. 5. 30.76		30.65	25.63	54.98	...	...
	28	α ² Capricorni.....	J	...	40.8	43.3	48.7	51.0	53.6	1.0	3.5	6.2	...	20. 11. 53.66		53.62	48.60	54.98	...	...
	29	β Capricorni.....	J	31.6	34.2	36.6	41.9	44.4	47.0	54.6	57.2	59.5	2.2	20. 14. 47.08		47.05	42.04	54.99	...	...
	30	Mars 1 L.....	J	53.3	55.9	58.4	4.0	6.5	9.3	17.0	19.6	22.4	25.1	20. 17. 9.31		...	...	...	...	...
	31	Mars 2 L.....	J	53.7	56.5	59.0	4.5	6.9	9.7	17.5	20.1	23.0	25.6	20. 17. 9.86		9.60	...	...	20. 18. 4.57	...
	32	ρ Capricorni.....	J	...	19.7	22.7	28.0	30.4	33.2	40.8	43.3	45.8	...	20. 22. 33.15		33.14	28.18	55.04	...	...
	33	Bradley 3147.....	J	16.0	21.3	27.0	41.6	45.8	52.6	5.6	10.4	15.4	28.4	23. 27. 10.19		10.37	5.87	55.50	...	...
	34	ι Piscium.....	J	56.4	59.0	1.5	6.8	9.2	11.6	18.8	21.3	23.8	26.3	23. 34. 11.63		11.50	6.42	54.92	...	...
	35	α Andromedæ.....	WS	19.2	21.9	24.7	30.3	33.1	36.0	44.3	47.1	49.7	52.8	0. 2. 36.09		35.88	31.60	55.72	55.73	...
	36	α Andromedæ.....(E&E)	WS	27.8	44.7	1.5	18.5	35.3	52.4	9.2	...	...	...	0. 2. 35.91		35.70	31.60	55.90	...	...
	37	γ Pegasi.....	WS	12.5	15.1	17.4	22.8	25.3	27.8	35.3	37.8	40.4	43.0	0. 7. 27.90		27.73	23.47	55.74	...	...
	38	γ Pegasi.....(E&E)	WS	24.4	39.8	55.3	10.5	25.5	41.0	56.7	...	...	...	0. 7. 27.87		27.70	23.47	55.77	...	...
	39	Polaris.....	J	43.4	47.1	52.1	6.4	10.6	15.4	28.7	33.8	38.2	49.1	1. 25. 18.26		19.37	12.75	53.38	55.06	...
	40	α Leonis.....	B	30.3	32.7	35.3	40.3	42.6	45.4	52.4	55.0	57.4	0.0	10. 54. 45.29	(- 2.60)	45.14	40.99	55.85	55.61	10. 55. 41.02
	41	χ Leonis.....	B	58.1	0.3	2.8	8.0	10.3	13.0	20.2	22.9	25.2	27.7	10. 59. 13.01		12.85	8.66	55.81	...	11. 0. 8.74
	42	δ 2 L.....	B	57.0	59.4	1.8	7.3	9.5	12.4	19.8	22.2	25.0	27.5	11. 3. 12.35		12.19	...	...	...	11. 3. 0.74
	43	β Leonis.....	B	2.9	5.4	7.8	13.3	15.7	18.2	25.7	28.4	31.0	33.6	11. 43. 18.36		18.18	14.19	56.01	...	11. 44. 14.08
	44	Spica.....	B	...	3.7	6.2	11.3	13.6	16.3	23.8	26.2	28.8	...	13. 19. 16.39		16.31	12.36	56.05	...	13. 20. 12.25
	45	Polaris S.P.....	B	56.7	6.3	24.3	35.6	43.1	52.7	2.6	12.0	20.9	30.7	13. 25. 19.70		17.05	12.46	55.41	...	...
	46	Arcturus.....	B	8.4	11.2	13.6	19.0	21.5	24.3	31.8	34.6	37.1	39.6	14. 10. 24.27		24.07	20.07	56.00	...	14. 11. 20.04
	47	Venus 1 L.....	B	39.7	42.3	...	...	...	55.3	...	...	7.7	10.3	14. 23. 55.17		...	...	...	...	14. 24. 51.47
	48	Venus 2 L.....	B	...	...	45.6	50.9	53.2	...	3.4	5.9	...	...	14. 23. 55.97		55.50	...	...	...	...
	49	ε ² Bootis.....	B	37.8	40.6	43.2	49.1	51.7	54.7	2.7	5.8	8.2	11.0	14. 39. 54.65		54.43	50.44	56.01	...	14. 40. 50.41

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 36, and 38, - 162^m.74 : and - 162^m.74.
 Corrections for passage of Semidiameter, Nos. 19, and 42, - 66^s.95 : and - 67^s.34.

4. Observed over wire T with the transit-micrometer set to readings 38^m.156, 38^m.037, 37^m.905, 37^m.816, 37^m.710, 37^m.636, 37^m.540, 37^m.466, 37^m.335, 37^m.246.
 10. Observed over wires N, O, P and Q.
 18. Observed over wire T with the transit-micrometer set to readings 36^m.370, 36^m.558, 36^m.980, 37^m.140, 37^m.390, 37^m.550, 37^m.866, 37^m.980, 38^m.277, 38^m.500.
 19. Very cloudy.
 20, 47. A correction of - 0^s.04 for defect of illumination has been applied in forming the concluded transit.
 31. A correction of + 0^s.05 for defect of illumination has been applied in forming the concluded transit.
 33. Observed over wire R with the transit-micrometer set to readings 35^m.028, 35^m.121, 35^m.253, 35^m.603, 35^m.668, 35^m.804, 36^m.142, 36^m.239, 36^m.367, 36^m.658.
 39. Observed over wire X with the transit-micrometer set to readings 39^m.038, 39^m.073, 39^m.087, 39^m.212, 39^m.223, 39^m.237, 39^m.387, 39^m.396, 39^m.439, 39^m.568.
 44. Very faint; foggy.
 45. Observed over wire T with the transit-micrometer set to readings 37^m.800, 37^m.739, 37^m.560, 37^m.500, 37^m.420, 37^m.350, 37^m.280, 37^m.180, 37^m.106, 37^m.027.

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

1907GOAMM...

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 ^h Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.																																																																			
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).						h m s	h m s	h m s																																																																	
				s	s	s	s	s	s	s	s	s	s		"	"								s	s	s																																																														
Nov. 27	1	⊙ 1 L.....	JS	4.0	6.6	9.3	14.8	17.2	20.0	27.6	30.5	33.1	35.7	16. 8. 20.04	+ 4.04	} 29.72				58.55	[+ 0.50]	16. 10. 28.61																																																																		
	2	⊙ 2 L.....	JS	23.4	26.0	28.6	33.8	36.8	39.5	47.3	49.7	52.6	55.2	16. 10. 39.45	(- 8.39)																																																																									
	3	ζ Herculis.....	JS	26.1	28.8	31.6	37.6	40.7	43.5	52.0	55.0	57.7	0.9	16. 36. 43.57	- 2.13								} 43.20	42.14	58.94	58.95		16. 37. 42.10																																																												
	4	β Ophiuchi.....	JS	33.7	36.4	38.7	43.6	46.1	48.8	55.8	58.5	1.0	3.4	17. 37. 48.75																																																																										
	5	μ Herculis.....	JS	29.0	31.6	...	40.4	43.0	45.9	53.9	...	59.6	2.7	17. 41. 45.92															} 45.57	44.53	58.96	58.95		17. 42. 44.49																																																						
	6	α ² Capricorni.....	JS	34.3	36.9	39.3	44.6	46.9	49.7	57.0	59.5	2.2	4.8	20. 11. 49.68																																																																										
	7	α ² Capricorni.....(E&E)	JS	52.3	7.4	22.8	38.1	53.1	8.1	23.4	...	...	...	20. 11. 49.41																					} 49.30	48.52	59.22	58.95		20. 12. 48.54																																																
	8	β Capricorni.....	JS	27.6	30.1	32.8	37.8	40.4	43.3	50.6	53.1	55.6	58.1	20. 14. 43.10																																																																										
	9	β Capricorni.....(E&E)	JS	45.4	0.4	16.0	31.5	46.8	2.0	17.4	...	...	...	21. 14. 42.88																											} 43.02	41.96	59.16	58.94		20. 15. 41.99																																										
	10	α Delphini.....	S	0.4	2.8	5.4	10.8	13.1	15.7	23.3	26.0	28.5	31.0	20. 34. 15.86																																																																										
	11	Mars 1 L.....	JS	39.8	...	45.0	...	...	55.6	...	6.0	...	11.3	20. 38. 55.70																																	} 55.84			58.87		20. 39. 54.82																																				
	12	Mars 2 L.....	JS	...	42.7	...	50.8	53.2	...	3.6	...	9.0	...	20. 38. 56.08																																																																										
	13	ε Aquarii.....	S	19.3	21.7	24.3	29.5	31.7	34.5	41.6	44.2	46.7	49.3	20. 41. 34.44																																							} 34.31	33.60	59.29	58.87		20. 39. 54.82																														
	14	μ Aquarii.....	BE	19.1	21.6	24.1	29.3	31.6	34.2	41.5	44.1	46.5	49.0	20. 46. 34.26																																																																										
	15	32 Vulpeculae.....	BE	16.1	19.0	21.6	27.5	30.0	33.0	41.1	44.0	46.8	49.3	20. 49. 33.02																																													} 32.67	31.98	59.31	58.87		20. 39. 54.82																								
	16	Saturn 1 L.....	JS	13.6	16.2	18.7	24.0	26.6	29.0	36.5	39.1	41.6	44.1	21. 57. 29.10																																																																										
	17	Saturn 2 L.....	JS	14.7	17.1	19.6	24.9	27.4	30.0	37.4	39.9	42.6	45.1	21. 57. 30.03																																																			} 38.24	37.24	59.00	58.87		22. 2. 37.25																		
	18	ι Pegasi.....	JS	22.1	24.8	27.5	33.2	35.6	38.7	46.5	49.2	51.8	54.7	22. 1. 38.58																																																																										
	19	κ Piscium.....	JS	52.5	54.9	57.2	2.5	4.7	7.3	14.7	17.1	19.5	22.0	23. 21. 7.39																																																									} 7.19	6.18	58.99	58.87		23. 22. 6.23												
	20	Bradley 3147.....	JS	13.2	24.7	30.1	36.7	41.3	46.3	53.3	58.1	4.0	8.6	23. 27. 6.44																																																																										
	21	θ Ceti.....	JS	5.4	7.8	10.3	15.5	17.7	20.4	27.6	30.2	32.8	35.2	1. 18. 20.45																																																															} 4.56	3.53	58.97	59.05		1. 19. 19.39						
	22	Polaris.....	JS	45.6	51.9	57.5	14.9	20.5	24.7	38.7	45.0	49.6	0.4	1. 25. 14.47																																																																										
	23	Jupiter 1 L.....	JS	44.3	...	49.3	...	...	59.9	...	10.4	...	15.6	3. 55. 0.06																																																																					} 10.17	9.25	59.08	59.05		3. 56. 0.55
	24	Jupiter 2 L.....	JS	47.5	...	52.7	...	...	3.4	...	13.6	...	18.9	3. 55. 3.38																																																																										
Nov. 29	25	β ¹ Lyræ.....	B	16.8	19.7	22.7	28.9	31.6	34.8	43.2	46.3	49.2	52.3	18. 45. 34.73	(- 7.85)	} 34.44	34.60	60.16	59.81	18. 46. 34.64																																																																				
	26	Cephei 51 S.P.....	B	29.4	39.1	45.2	0.8	7.4	13.9	25.3	31.2	37.3	44.5	18. 55. 50.00	(- 0.90)																																																																									
	27	ζ Aquilæ.....	B	17.4	32.8	...	...	...	10.9	13.3	15.9	18.5	33.6	19. 0. 3.42							} 51.71	52.64	60.93	59.81	18. 46. 34.64																																																															
	28	γ Aquilæ.....	B	30.5	32.9	35.3	40.7	43.0	45.6	52.9	55.5	58.0	0.6	19. 40. 45.66																																																																										
	29	α Aquilæ.....	B	55.0	57.3	59.7	5.1	7.2	10.0	17.3	19.8	22.3	24.9	19. 45. 10.02												} 45.50	45.68	60.18	60.16		19. 41. 45.72																																																									
	30	β Aquilæ.....	B	...	...	...	35.0	37.2	40.0	47.1	49.7	52.2	54.7	19. 49. 39.96																																																																										
	31	θ Aquilæ.....	B	10.6	13.0	15.3	20.6	22.8	25.4	32.6	35.2	37.6	40.1	20. 5. 25.47																		} 39.82	39.98	60.16	60.15		19. 50. 40.04																																																			
	32	α ² Capricorni.....	B	...	35.4	38.0	43.3	45.6	48.3	55.6	58.3	0.7	...	20. 11. 48.30																																																																										
	33	α Delphini.....	JS	59.7	2.2	4.8	9.9	12.3	15.2	22.5	25.2	27.6	30.3	20. 34. 15.13																								} 48.28	48.50	60.22	59.49	20. 12. 48.51																																														
	34	α Delphini.....(E&E)	JS	15.6	34.1	49.7	5.1	20.2	35.5	51.2	...	...	...	20. 34. 14.91																																																																										
	35	ε Aquarii.....	JS	18.7	21.0	23.4	28.8	31.1	33.7	41.0	43.4	45.8	48.5	20. 41. 33.70																													} 14.94	14.86	60.14	59.92		20. 12. 48.51																																								
	36	ε Aquarii.....(E&E)	JS	38.4	53.5	8.4	23.5	38.4	53.5	8.7	...	...	...	20. 41. 33.48																																																																										
	37	Mars 1 L.....	B	50.0	52.7	...	...	...	5.9	...	18.8	21.4	20. 45. 5.91		} 33.44																																		33.58	60.14	60.14		20. 12. 48.51																																			
	38	Mars 2 L.....	B	...	...	55.6	1.2	3.6	...	14.0	16.7	...	...	20. 45. 6.44																																																																										
	39	σ ¹ Ursæ Majoris S.P.....R.	B	31.4	37.6	43.7	50.8	...	...	...	...	...	...	20. 59. 9.07																																									} 6.22	7.57	7.79	59.81	20. 46. 6.46																													
	40	σ ² Ursæ Majoris S.P.....	B	...	...	...	...	...	14.7	20.6	34.3	40.3	46.7	20. 59. 7.97																																																																										
	41	ζ Cygni.....	B	36.8	39.5	42.3	48.3	50.9	53.8	2.5	5.1	7.8	10.8	21. 7. 53.96																																														} 54.82	54.98	60.16	60.16		21. 8. 55.07																							
	42	Groombridge 3548.....	B	36.6	46.2	3.4	10.7	24.5	30.7	37.3	52.1	57.8	2.9	21. 17. 30.51																																																																										
	43	Oeltz. Arg. (N.) 22261 R.	B	23.3	31.8	39.3	55.4	3.0	...	...	...	...	...	21. 20. 11.17																																																				} 28.39	28.74	60.35	60.35		21. 18. 28.64																	
	44	Oeltz. Arg. (N.) 22261 R.	B	...	...	...	...	...	...	36.6	44.8	52.3	0.4	21. 20. 13.98																																																																										
	45	β Aquarii.....	B	19.4	22.0	24.4	29.6	32.0	34.7	41.8	44.4	46.8	49.3	21. 25. 34.60																																																										} 13.68	13.35	60.17	60.17		21. 21. 13.61											
	46	ξ Aquarii.....	B	28.4	30.7	33.3	38.5	40.7	43.3	50.6	53.1	55.6	58.1	21. 31. 43.39																																																																										
	47	Saturn 1 L.....	B	34.3	36.7	39.3	44.6	46.8	49.6	56.9	59.4	2.2	4.8	21. 57. 49.62																																																																} 43.34	43.52	60.18	60.18		21. 26. 35.37					
	48	Saturn 2 L.....	B	35.4	37.9	40.5	45.6	47.9	50.8	58.3	0.9	3.3	5.9	21. 57. 50.81																																																																										
49	α Aquarii.....	B	41.2	43.6	46.0	51.0	53.3	56.1	3.2	5.9	8.3	10.7	21. 59. 56.08			} 50.21	55.99	56.22	60.23	60.23																																		21. 32. 43.60																																		
50	κ Piscium.....	B	51.1	53.4	55.9	1.1	3.4	6.1	13.2	15.7	18.0	20.7	23. 21. 6.01																																																																											
51	Bradley 3147.....	B	45.0	51.5	56.6	2.0	29.7	35.6	39.6	49.6	55.0	59.2	23. 27. 5.09								} 5.90	2.90	2.77	59.87	60.26																																																											23. 28. 3.20				
52	γ Pegasi.....	B	7.7	10.4	12.9	18.3	20.7	23.2	30.7	33.3	35.7	38.4	0. 7. 23.29																																																																											

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

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.	Tab R. Kn Su	Clock appa- rently Slow.	Adopted Clock Slow at 0 ^h Sidereal and (Losing Rate).	Apparent R.A. of Centre from the Observation.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.							
Dec. 6	1	δ Ursæ Minoris.....	E	32.8	39.2	46.3	51.6	57.2	7.7	13.2	21.2	27.0	49.9	18. 1. 19.45	+ 4.00	15.90	16	63.80	63.41	.....
	2	γ Aquilæ.....	E	26.7	29.2	31.6	36.9	39.3	41.9	49.2	51.7	54.4	56.9	19. 40. 41.94	(- 8.12)	41.84	41	63.79	[+ 0.53]	.....
Dec. 7	3	δ Aquilæ.....	B	24.7	26.9	29.3	34.5	36.9	39.4	46.5	49.2	51.6	54.1	19. 19. 39.46	(- 9.61)	39.28	41	64.29	63.86	19. 20. 43.57
	4	α Vulpeculæ.....	B	...	...	...	36.4	38.9	41.7	49.7	52.6	55.2	57.7	19. 23. 41.81	(- 0.45)	41.46	41	64.35	[+ 0.54]	19. 24. 45.75
	5	ζ Cygni.....	B	33.6	36.4	39.2	45.2	47.8	50.9	59.1	2.1	4.8	7.5	21. 7. 50.84		50.45	51	64.41		21. 8. 54.78
	6	Mars 1 L.....	B	17.6	20.2	...	...	...	33.3	...	...	46.1	48.7	21. 9. 33.33						
	7	Mars 2 L.....	B	...	...	23.3	28.6	31.0	...	41.3	43.9	...	...	21. 9. 33.84						21. 10. 37.94
	8	ι Capricorni.....	JS	39.4	42.1	44.7	49.8	52.3	55.0	2.6	5.2	7.7	10.4	21. 15. 55.08		55.09	56	64.03	63.55	.....
	9	Groombridge 3548.....	B	26.3	36.4	43.5	11.4	29.7	44.5	53.6	7.7	13.3	20.9	21. 17. 25.82		21.72	21	63.85	63.86	.....
	10	β Aquarii.....	JS	16.2	18.7	21.1	26.2	28.6	31.2	38.3	41.0	43.4	45.9	21. 25. 31.22		31.12	31	64.06	63.55	.....
	11	ξ Aquarii.....	B	24.2	26.6	29.0	34.4	36.6	39.2	46.5	49.0	51.3	53.9	21. 31. 39.23		39.15	41	64.27	63.86	21. 32. 43.49
	12	δ Capricorni.....	B	29.8	32.4	34.8	40.3	42.7	45.3	52.8	55.4	58.0	0.6	21. 40. 45.37		45.37	46	64.30		21. 41. 49.72
	13	Saturn 1 L.....	B	12.0	14.6	17.0	22.4	24.8	27.3	34.8	37.2	39.8	42.6	21. 59. 27.41						
	14	Saturn 2 L.....	B	13.2	15.7	18.3	23.5	25.8	28.7	35.7	38.7	41.1	43.6	21. 59. 28.59						
	15	θ Aquarii.....	JS	32.0	...	37.0	42.3	44.4	47.2	54.5	57.0	...	...	22. 22. 10. 47.23		47.15	51	64.01	63.55	.....
	16	Bradley 3147.....	JS	0.4	6.7	13.0	25.4	33.0	38.8	51.6	58.9	4.6	14.6	23. 26. 59.34		55.09	56	64.51		.....
	17	ι Piscium.....	JS	47.3	49.7	52.2	57.3	59.6	2.3	9.5	12.1	14.6	17.0	23. 34. 2.32		2.13	64	04.09		.....
	18	ω Piscium.....	B	9.2	11.6	14.1	19.2	21.5	24.2	31.5	34.1	36.5	39.0	23. 53. 24.25		24.05	28	64.44	63.86	23. 54. 28.45
	19	2 Ceti.....	B	34.7	37.2	39.7	45.2	47.6	50.4	57.8	0.7	3.1	5.8	23. 57. 50.38		50.39	54	64.41		23. 58. 54.79
Dec. 8	20	Bradley 3147.....	W	24.7	37.8	41.6	45.3	3.9	7.4	10.4	17.0	50.5	54.2	23. 27. 0.13	(- 9.39)	55.15	56	64.09	64.38	.....
	21	ω Piscium.....	W	8.8	11.3	13.6	18.8	21.0	23.6	31.0	33.4	36.1	38.6	23. 53. 23.78	[+ 0.92]	23.66	28	64.82	[+ 0.51]	23. 54. 28.55
	22	2 Ceti.....	W	34.3	36.8	39.3	44.7	47.1	49.8	57.4	0.2	2.8	5.3	23. 57. 49.93		50.04	54	64.75		23. 58. 54.93
	23	α Andromedæ.....	W	9.7	12.7	15.3	21.2	23.9	26.8	35.0	37.8	40.7	43.4	0. 2. 26.83		26.49	31	64.89	64.89	0. 3. 31.38
	24	Bradley 1672 S.P.....	W	37.4	41.6	45.0	48.3	6.3	9.5	13.6	17.2	29.5	33.4	0. 12. 43.22		51.26	53	64.31		.....
	25	Polaris.....	W	38.1	42.3	45.2	48.3	51.6	5.9	24.8	27.6	31.6	34.8	1. 25. 8.35		55.50	165	9.5		.....
	26	δ 1 L.....	W	30.9	33.3	35.8	41.3	43.6	46.5	54.0	56.7	59.2	1.6	2. 42. 46.45		46.28				2. 44. 53.36
	27	Mösting A.....	W	41.6	44.1	46.6	51.9	54.5	57.2	4.6	7.3	9.7	12.4	2. 43. 57.15		56.98				2. 44. 53.46
	28	f Tauri.....	W	21.2	23.6	26.2	31.3	33.7	36.3	43.6	46.4	48.9	51.3	3. 24. 36.41		36.22	41	65.06		3. 25. 41.18
	29	Jupiter 1 L.....	W	39.0	41.4	44.1	49.5	52.0	54.8	2.4	5.1	7.6	10.1	3. 48. 54.76						
	30	Jupiter 2 L.....	W	42.5	44.9	47.3	52.8	55.4	58.2	5.9	8.4	10.9	13.5	3. 48. 58.14						
	31	Rigel.....	W	41.5	44.1	46.5	51.6	54.1	56.8	3.9	6.4	9.0	11.5	5. 8. 56.70		56.71	165	0.4		5. 10. 1.71
	32	β Tauri.....	J	0.3	3.1	5.9	11.9	14.7	17.3	25.4	28.6	31.2	33.9	5. 19. 17.41		17.07	21	64.40	64.34	.....
	33	ξ Geminorum.....	W	41.1	43.4	45.9	51.2	53.5	56.2	3.4	6.3	8.8	11.3	6. 38. 56.27		56.07	165	0.8	64.89	6. 40. 1.10
	34	Neptune.....	W	14.7	17.2	19.7	...	...	...	...	41.3	43.9	46.8	6. 40. 30.80		30.52				6. 41. 35.55
	35	θ Canis Majoris.....	J	30.0	32.6	35.0	40.3	42.7	45.3	52.7	55.3	57.6	0.1	6. 48. 45.32		45.37	49	64.49	64.34	.....
	36	ζ Geminorum.....	J	11.9	14.8	17.3	22.8	25.3	28.1	35.6	38.6	41.3	43.8	6. 57. 28.11		27.85	32	64.46		.....
	37	γ Canis Majoris.....	J	...	13.2	15.6	21.0	23.4	26.2	33.6	36.3	38.9	...	6. 58. 26.19		26.28	30	64.56		.....
	38	Arcturus.....	JS	59.7	2.4	5.0	10.5	12.9	15.7	23.4	26.1	28.7	31.3	14. 10. 15.73	(- 8.42)	15.47	20	64.99	64.72	14. 11. 20.49
	39	ρ Boötis.....	JS	22.7	25.4	28.1	34.1	36.9	39.7	48.2	51.2	54.1	57.0	14. 26. 39.92	(- 0.84)	39.60	44	64.98	[+ 0.50]	14. 27. 44.62
	40	ε ² Boötis.....	JS	29.2	32.0	34.7	40.6	43.1	46.0	54.1	57.0	59.6	2.6	14. 39. 46.06		45.77	50	65.01		14. 40. 50.80
	41	α Serpentis.....	JS	16.3	18.8	21.0	26.3	28.6	31.2	38.6	41.0	43.4	45.8	15. 38. 31.26		31.09	36	65.03		15. 39. 36.14
	42	Venus 1 L.....	JS	36.4	...	41.5	...	...	52.2	...	2.7	...	7.9	15. 53. 52.27						
	43	Venus 2 L.....	JS	...	39.5	...	47.4	50.1	...	0.4	...	5.9	...	15. 53. 52.83						15. 54. 57.63
Dec. 9	44	⊙ 1 L.....	JS	...	...	...	...	...	13.0	21.0	23.6	26.3	29.1	17. 0. 13.14						
	45	⊙ 2 L.....	JS	18.2	20.8	23.5	29.2	31.5	34.6	42.3	45.0	47.5	50.6	17. 2. 34.49						17. 2. 28.97
	46	α ¹ Herculis.....	JS	59.2	1.6	4.3	9.4	11.7	14.7	22.1	24.7	27.2	29.6	17. 9. 14.61		14.39	19	65.07		17. 10. 19.47
	47	16 Pegasi.....	JS	...	...	...	...	...	...	49.1	51.7	54.7	57.3	21. 47. 41.14		40.86	45	65.11		21. 48. 46.03
	48	Saturn 1 L.....	JS	40.4	...	45.3	...	...	55.8	...	...	...	10.8	21. 59. 55.74						
	49	Saturn 2 L.....	JS	...	43.5	...	51.5	53.7	...	3.6	...	9.0	...	21. 59. 56.42						22. 1. 1.24

Correction for passage of Semidiameter, No. 26, + 62^h 13.

1. Observed over wire W with the transit-micrometer set to readings 35^h 28.0, 35^h 47.8, 35^h 64.9, 35^h 76.1, 35^h 88.5, 36^h 16.3, 36^h 27.6, 36^h 46.1, 36^h 57.159. Faint and diffused.
4. 5, 20, 25, 34. Cloudy.
9. Observed over wire V with the transit-micrometer set to readings 34^h 53.2, 34^h 75.0, 34^h 96.1, 35^h 59.8, 36^h 01.0, 36^h 35.7, 36^h 58.8, 36^h 92.0, 37^h 22.0.
16. Observed over wire T with the transit-micrometer set to readings 36^h 98.2, 37^h 12.2, 37^h 25.7, 37^h 53.9, 37^h 70.4, 37^h 85.6, 38^h 12.2, 38^h 32.5, 38^h 67.6.
20. Observed over wire X with the transit-micrometer set to readings 42^h 48.0, 42^h 77.0, 42^h 85.8, 42^h 93.0, 43^h 32.5, 43^h 43.9, 43^h 50.7, 43^h 66.0, 44^h 44.9.
24. Observed over wire T with the transit-micrometer set to readings 36^h 40.0, 36^h 38.3, 36^h 33.0, 36^h 29.4, 36^h 06.0, 36^h 01.6, 35^h 98.3, 35^h 94.1, 35^h 77.6.
25. Observed over wire T with the transit-micrometer set to readings 35^h 36.5, 35^h 39.0, 35^h 40.0, 35^h 43.3, 35^h 46.0, 35^h 55.8, 35^h 75.0, 35^h 76.3, 35^h 80.8.
27. Reduction to D's centre at time of transit of Crater, - 8^h 19. A further correction of - 0^h 28 has been applied to reduce to time of transit's centre on true meridian.
42. A correction of - 0^h 03 for defect of illumination has been applied in forming the concluded transit.
48, 49. Fairly 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 Cor- rected.	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.
				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	
Dec. 9	1	θ Aquarii	JS	31'0	33'4	35'7	41'0	43'3	46'1	53'2	55'6	58'3	0'8	22. 10. 46'00	+ 4'00		45'94	51'14	65'20	64'72	22. 11. 51'12
	2	θ Aquarii.....(E&E)	JS	59'3	14'4	29'0	44'1	58'9	13'8	29'0	...	...	...	22. 10. 45'84	(- 8'42)		45'78	51'14	65'36	[+ 0'50]	.....
	3	γ Aquarii.....	JS	26'9	29'2	31'6	36'9	39'1	41'7	49'0	51'4	53'8	56'6	22. 15. 41'77	(- 0'84)		41'66	46'88	65'22		22. 16. 46'84
	4	γ Aquarii.....(E&E)	JS	55'3	9'9	25'0	40'0	54'6	9'5	24'4	...	...	...	22. 15. 41'57			41'46	46'88	65'42		.....
	5	η Aquarii.....	JS	...	...	...	...	...	...	32'7	35'1	37'5	40'1	22. 29. 25'46			25'35	30'48	65'13		22. 30. 30'54
	6	Bradley 3085	R.	16'3	25'1	33'6	...	59'9	...	...	...	...	...	23. 10. 9'49			12'45	...	...		23. 11. 17'65
	7	Bradley 3085.....	JS	...	...	...	...	...	...	38'7	47'6	56'6	5'6	23. 10. 13'33			12'51	...	...		23. 11. 17'71
	8	κ Piscium.....	JS	...	48'4	50'9	...	58'3	1'0	8'2	10'8	13'2	15'6	23. 21. 1'01			0'88	6'04	65'16		23. 22. 6'09
	9	Bradley 3147.....	JS	50'1	55'6	1'6	16'1	21'7	26'9	39'6	44'3	49'5	54'9	23. 26. 56'75			53'92	58'89	64'97		23. 27. 59'13
	10	Bradley 1672 S.P.....	JS	0'7	6'5	11'9	23'6	28'3	32'8	44'9	4'2	9'1	14'8	0. 12. 46'66			50'68	56'19	65'51	65'22	12. 13. 55'91
	11	44 Piscium.....	JS	14'6	17'0	19'3	24'5	26'8	29'5	36'7	39'2	41'5	44'1	0. 19. 29'47			29'34	34'57	65'23		0. 20. 34'57
	12	β Ceti.....	WS	30'7	33'0	35'5	41'0	43'5	46'3	53'5	56'6	58'9	1'4	0. 37. 46'20			46'23	51'82	65'59	65'55	.....
	13	β Ceti.....(E&E)	WS	57'4	13'0	28'8	44'5	59'9	15'6	31'4	...	...	...	0. 37. 46'14			46'17	51'82	65'65		.....
	14	δ Piscium.....	WS	27'5	30'0	32'4	37'5	40'1	42'7	49'6	52'7	54'8	57'3	0. 42. 42'62			42'45	47'97	65'52		.....
	15	δ Piscium.....(E&E)	WS	56'0	11'0	26'0	41'0	55'8	10'6	25'9	...	...	...	0. 42. 42'67			42'50	47'97	65'47		.....
	16	ϵ Piscium.....	JS	43'4	45'8	48'3	53'5	55'9	58'6	5'6	8'3	10'8	13'1	0. 56. 58'49			58'32	3'61	65'29	65'22	0. 58. 3'56
	17	Polaris	JS	22'4	28'5	34'6	48'0	52'9	59'3	1'4	15'6	21'0	29'6	1. 25. 2'08			55'10	0'75	65'65		1. 26. 0'35
	18	α Ceti.....	JS	2'1	4'6	7'0	12'0	14'5	17'0	24'1	26'7	29'2	31'5	2. 56. 17'02			16'87	22'14	65'27		2. 57. 22'15
	19	Groombridge 2283 S.P.....	JS	16'5	21'8	28'1	49'0	54'8	59'4	12'6	17'8	21'4	25'6	3. 5. 39'98			42'86	48'13	65'27		15. 6. 48'14
	20	f Tauri.....	JS	20'9	23'3	25'9	31'2	33'5	36'2	43'4	46'1	48'7	51'1	3. 24. 36'19			35'98	41'28	65'30		3. 25. 41'27
	21	δ 1 L.....	JS	1'6	4'5	6'8	12'4	14'7	17'4	25'0	27'6	30'3	32'9	3. 31. 17'48			17'27	...	...		3. 33. 25'74
	22	Mösting A.....	JS	11'5	14'1	16'7	22'1	24'7	27'3	34'8	37'4	40'0	42'7	3. 32. 27'29			27'08	...	...		3. 33. 25'64
	23	Jupiter 1 L.....	JS	...	...	12'8	...	...	23'6	...	33'9	...	39'2	3. 48. 23'63			...	...	...		...
	24	Jupiter 2 L.....	JS	11'0	...	16'1	...	...	27'0	...	37'2	...	42'3	3. 48. 26'88			...	...	...		...
	25	α^1 Tauri.....	JS	47'5	50'1	52'8	58'3	0'8	3'5	11'3	14'0	16'7	19'3	3. 58. 3'59			3'33	8'68	65'35		3. 59. 8'63
	26	α^1 Eridani.....	SD	56'6	58'9	1'4	6'6	9'0	11'5	18'8	21'3	23'6	26'3	4. 6. 11'56			11'49	17'03	65'54	65'53	.....
	27	Aldebaran.....	SD	11'0	13'6	16'0	21'4	23'9	26'6	34'1	36'6	39'2	41'7	4. 29. 26'57			26'35	32'04	65'69		.....
	28	ϵ Orionis.....	JS	6'9	9'3	11'6	17'0	19'2	21'8	28'9	31'4	33'9	36'3	5. 30. 21'78			21'67	27'09	65'42	65'22	5. 31. 27'00
	29	δ Ursæ Minoris S.P.....	JS	6'3	12'8	17'5	22'7	28'4	33'2	37'4	42'0	47'4	52'7	6. 1. 11'43			13'35	19'17	65'82		18. 2. 18'69
	30	ν Geminorum.....	JS	...	4'8	7'4	12'9	15'3	18'1	25'6	28'6	31'1	...	6. 22. 18'14			17'89	23'29	65'40		6. 23. 23'24
	31	Neptune.....	JS	7'4	10'1	12'8	18'3	20'8	23'6	31'4	34'1	36'8	39'4	6. 40. 23'64			23'38	...	...		6. 41. 28'74
	32	θ Canis Majoris.....	JS	29'2	31'6	34'1	39'4	41'6	44'4	51'6	54'3	56'8	59'3	6. 48. 44'39			44'36	49'88	65'52		6. 49. 49'72
	33	Cephei 51.....	JS	4'7	12'3	18'3	33'3	39'0	44'5	58'1	3'3	8'5	19'3	6. 55. 53'01			49'82	56'12	66'30		6. 56. 55'18
														(- 7'12)							
Dec. 10	34	δ 1 L.....	E	20'1	22'7	25'2	30'8	33'2	36'0	43'4	46'4	48'8	51'6	4. 21. 35'98			35'82	...	...	66'10	4. 23. 46'40
	35	Aldebaran.....	E	10'3	13'1	15'4	21'0	23'2	26'1	33'4	36'2	38'7	41'2	4. 29. 26'02			25'86	32'05	66'19	[+ 0'48]	.....
														+ 4'52							
Dec. 11	36	$\odot$ 1 L.....	SD	42'8	45'3	48'1	53'6	56'3	59'1	6'7	9'6	12'4	15'1	17. 8. 59'07			...	...	...	65'97	17. 11. 16'47
	37	$\odot$ 2 L.....	SD	4'7	7'2	9'7	15'4	18'0	21'0	28'7	31'3	34'1	36'8	17. 11. 20'86			...	...	...	[+ 0'49]	.....
	38	α Ophiuchi.....	SD	...	13'1	15'4	...	23'2	25'8	33'2	35'7	38'3	40'8	17. 29. 25'84			25'78	32'09	66'31		.....
	39	μ Herculis.....	SD	21'6	24'3	27'0	32'7	35'4	38'2	46'3	49'3	52'0	54'8	17. 41. 38'34			38'21	44'55	66'34		.....
	40	δ Ursæ Minoris.....	SD	48'8	56'6	4'3	18'2	26'2	35'0	56'0	2'0	8'3	22'8	18. 1. 13'33			12'60	18'93	66'33		.....
	41	α Aquilæ.....	JS	48'9	51'3	53'8	59'0	1'4	3'9	11'3	13'7	16'2	18'5	19. 45. 3'96			3'92	9'98	66'06	65'66	.....
Dec. 12	42	$\odot$ 1 L.....	W	...	...	...	...	...	...	36'0	38'8	55'0	17. 13. 22'96			...	...	...	66'11	17. 15. 40'52	
	43	$\odot$ 2 L.....	W	...	...	...	39'3	41'9	44'6	52'7	55'3	58'1	0'8	17. 15. 44'78			...	...	...	[+ 0'50]	.....
	44	ϵ^2 Boötis.....	JS	27'2	29'9	32'8	38'4	41'2	44'0	52'3	55'0	57'8	0'6	14. 39. 44'09			43'97	50'88	66'91	66'61	.....
														+ 4'22							
														(- 8'06)							
Dec. 18	45	α Coronæ.....	JS	13'9	16'7	19'5	...	27'7	30'8	38'7	41'6	44'3	47'1	15. 30. 30'72			30'45	40'42	9'97	[+ 0'53]	15. 30. 40'31
	46	α Serpentis.....	J	11'7	14'3	16'6	21'7	24'2	26'7	33'8	36'7	39'1	41'5	15. 39. 26'79			26'64	36'31	9'67	9'32	15. 39. 36'31
	47	ζ Herculis.....	JS	15'3	17'9	20'9	27'0	29'5	32'8	41'1	44'1	47'0	49'9	16. 37. 32'73			32'44	42'36	9'92	9'52	16. 37. 42'33
	48	Venus 1 L.....	J	15'7	18'5	21'1	26'8	29'7	32'2	40'1	42'7	45'2	48'0	16. 47. 32'14			...	...	...	9'32	.....
	49	Venus 2 L.....	J	16'6	19'2	22'0	27'5	...	33'0	41'0	43'4	46'1	48'8	16. 47. 32'94			...	...	...		16. 47. 42'29
														(- 1'06)			32'60	...	...		...

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 2, 4, 13 and 15, - 178''38 : - 178''38 : - 178''38 : and - 178''38.
 Corrections for passage of Semidiameter, Nos. 21, and 34, + 63''18 : and + 64''39.

9. Observed over wire T with the transit-micrometer set to readings 34''089, 34''245, 34''341, 34''692, 34''807, 34''927, 35''221, 35''321, 35''417, 35''542.
 10. Observed over wire T with the transit-micrometer set to readings 36''180, 36''121, 36''016, 35''897, 35''842, 35''765, 35''621, 35''381, 35''317, 35''244.
 17. Observed over wire R with the transit-micrometer set to readings 34''228, 34''285, 34''338, 34''447, 34''493, 34''541, 34''650, 34''697, 34''706, 34''773.
 19. Observed over wire R with the transit-micrometer set to readings 35''963, 35''881, 35''738, 35''392, 35''301, 35''232, 35''000, 34''908, 34''857, 34''793.
 22. Reduction to δ 's centre at time of transit of crater, - 6''50. A further correction of - 0''23 has been applied to reduce to time of transit of δ 's centre on true meridian.
 29. Observed over wire X with the transit-micrometer set to readings 38''437, 38''287, 38''122, 38''019, 37''875, 37''766, 37''656, 37''547, 37''452, 37''330.
 33. Observed over wire T with the transit-micrometer set to readings 37''019, 37''183, 37''280, 37''571, 37''687, 37''818, 38''053, 38''197, 38''306, 38''407.
 35. Very faint.
 38. Foggy.
 40. Observed over wire W with the transit-micrometer set to readings 34''410, 34''620, 34''770, 35''083, 35''309, 35''520, 36''017, 36''151, 36''310, 36''659.
 42. Observed over wires W, X and Y.
 Dec. 15^d Ch. The Sidereal Standard clock put forward 1 min.
 48. 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 ASCENSIONS,

1907G0AMM...

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 of Sidereal and [Losing Rate].	Apparent R.A. of Centre from the Observation.
				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	
Dec. 18	1	ϵ Herculis.....	J	...	...	...	24.2	26.8	29.7	38.4	41.2	44.2	47.0	16. 56. 29.92	+ 4.22	29.64	39.38	9.74	9.32	16. 56. 39.33
	2	α^1 Herculis.....	J	54.5	57.2	59.6	5.0	7.3	9.9	17.3	20.2	22.7	25.1	17. 10. 10.04	(- 8.06)	9.84	19.57	9.73	[+ 0.53]	17. 10. 19.54
	3	β Ophiuchi.....	SD	22.8	25.1	27.4	32.7	35.0	37.5	44.8	47.2	49.6	52.3	17. 38. 37.59	(- 1.06)	37.45	47.61	10.16	9.77	.....
	4	μ Herculis.....	SD	17.8	20.6	23.3	29.1	31.6	34.8	42.9	45.6	48.5	51.1	17. 42. 34.71		34.44	44.59	10.15		.....
Dec. 19	5	$\odot$ 1 L.....	J	2.4	5.0	7.4	13.0	15.6	18.6	26.4	29.1	31.7	34.6	17. 45. 18.55		29.73			9.32	17. 46. 39.44
	6	$\odot$ 2 L.....	J	24.4	27.1	29.6	35.3	37.8	40.8	48.8	51.2	54.2	56.8	17. 47. 40.77						
	7	δ Ursæ Minoris.....	JS	48.9	54.6	58.8	11.1	15.7	23.2	34.2	38.8	43.2	54.6	18. 2. 9.96			7.97	17.91	9.94	9.52	18. 2. 17.89
	8	α Lyræ.....	J	14.7	17.8	21.0	27.4	30.6	33.9	43.1	46.3	49.2	52.8	18. 33. 33.87		33.54	43.21	9.67	9.32	18. 33. 43.27
	9	β^1 Lyræ.....	J	7.2	10.1	13.1	19.2	21.9	25.1	33.4	36.7	39.4	42.6	18. 46. 25.05		24.75	34.52	9.77		18. 46. 34.48
	10	16 Pegasi.....	J	...	...	...	...	...	36.4	44.1	47.2	49.5	52.5	21. 48. 36.29		36.04	45.84	9.80		21. 48. 45.84
	11	α Aquarii.....	J	31.2	33.9	36.1	...	...	...	...	...	15.6	30.9	22. 0. 46.28		46.18	55.99	9.81		22. 0. 55.99
	12	ϵ Pegasi.....	J	10.9	13.4	16.3	22.0	24.6	27.3	35.3	38.1	41.0	43.6	22. 2. 27.42		27.17	36.93	9.76		22. 2. 36.98
	13	κ Piscium.....	JS	41.1	43.5	45.9	51.1	53.4	56.1	3.2	5.7	8.2	10.7	23. 21. 56.04		55.92	5.92	10.00	9.52	23. 22. 5.96
	14	κ Piscium..... (E&E)	JS	...	40.0	55.0	9.6	24.3	39.0	...	...	...	...	23. 21. 55.85		55.73	5.92	10.19		.....
	15	Bradley 3147.....	JS	32.1	37.7	43.6	58.2	4.6	10.1	15.6	35.0	39.4	44.6	23. 27. 47.50		45.42	54.80	9.38		23. 27. 55.46
	16	δ Sculptoris.....	JS	33.6	36.7	39.2	45.1	47.7	50.8	59.0	1.9	4.6	7.3	23. 43. 50.77		50.90	0.79	9.89		23. 44. 0.94
	17	ω Piscium.....	JS	3.4	5.9	8.4	13.4	15.8	18.6	25.6	28.3	30.6	33.1	23. 54. 18.47		18.32	28.35	10.03		23. 54. 28.37
	18	ω Piscium..... (E&E)	JS	47.3	2.3	17.4	32.1	47.0	1.7	16.8	...	...	...	23. 54. 18.36		18.21	28.35	10.14		.....
	19	2 Ceti.....	JS	29.0	31.5	34.0	39.4	41.6	44.6	52.1	54.8	57.3	0.0	23. 58. 44.59		44.61	54.64	10.03		23. 58. 54.66
	20	Bradley 1672 S.P.....	JS	30.0	36.7	45.1	57.4	2.7	7.6	18.6	23.9	31.1	41.7	0. 13. 50.00		52.67	3.34	10.67	10.05	12. 14. 2.73
	21	ϵ Piscium.....	JS	...	...	...	19.6	21.7	24.7	31.6	34.3	36.7	39.1	0. 20. 24.53		24.41	34.46	10.05		0. 20. 34.47
	22	ϵ Piscium.....	J	38.8	41.2	43.6	49.0	51.1	53.7	1.0	3.5	6.0	8.5	0. 57. 53.80		53.65	3.51	9.86	9.85	0. 58. 3.52
	23	Polaris.....	J	26.5	31.3	35.6	50.3	54.9	59.3	13.9	17.6	22.9	35.7	1. 25. 47.35		42.38	52.22	9.84		1. 25. 52.26
	24	α Piscium.....	J	0.8	3.2	5.8	11.1	13.3	16.0	23.1	25.6	28.1	30.7	1. 40. 15.93		15.76	25.65	9.89		1. 40. 25.65
	25	Groombridge 2283 S.P.....	J	27.3	33.2	36.9	49.7	54.3	59.7	12.3	18.6	23.2	36.3	3. 6. 37.67		39.54	50.50	10.96		15. 6. 49.46
	26	γ^1 Arietis.....	J	22.8	25.2	27.7	33.3	35.7	38.7	46.3	49.1	51.5	54.3	3. 15. 38.62		38.39	48.29	9.90		3. 15. 48.31
	27	ω^1 Tauri.....	JS	16.0	18.6	21.2	26.7	29.1	31.6	39.5	42.1	44.7	47.2	4. 3. 31.83		31.60	41.79	10.19	10.05	4. 3. 41.74
	28	γ Tauri.....	JS	1.5	4.1	6.7	12.0	14.6	17.3	24.7	27.2	29.6	32.3	4. 14. 17.16		16.96	27.08	10.12		4. 14. 27.10
	29	δ Ursæ Minoris S.P.....	JS	15.1	21.0	24.4	28.3	32.3	36.1	40.4	44.5	49.6	53.3	6. 2. 6.53		7.75	17.89	10.14		18. 2. 17.93
	30	ν Geminorum.....	JS	57.5	0.2	2.8	8.3	10.7	13.4	21.1	23.6	26.4	29.0	6. 23. 13.46		13.24	23.46	10.22		6. 23. 23.43
	31	Neptune.....	JS	...	...	...	...	...	...	25.6	41.6	58.0	6. 40. 9.91		9.67					6. 40. 19.87
	32	θ Canis Majoris.....	JS	24.7	27.0	29.4	34.9	37.2	39.6	47.1	49.6	52.2	54.8	6. 49. 39.81		39.78	50.05	10.27		6. 49. 49.98
	33	Cephei 51.....	JS	25.7	35.2	41.2	58.8	5.1	11.9	26.7	31.2	43.2	53.4	6. 56. 49.76		47.44	58.94	11.50		6. 56. 57.64
	34	λ Ursæ Minoris S.P.....	J	3.6	9.8	16.0	31.6	37.1	42.8	57.3	2.7	9.3	22.6	7. 14. 37.69		42.77	52.68	9.91	9.85	19. 14. 52.78
	35	Pollux.....	J	7.6	10.6	13.1	19.1	21.6	24.7	32.7	35.5	38.3	41.2	7. 39. 24.62		24.36	34.31	9.95		7. 39. 34.38
	36	δ Crateris.....	W	...	14.6	17.0	22.4	24.8	27.5	34.9	37.3	40.1	...	11. 14. 27.48		27.47	38.04	10.57	10.31	.....
	37	τ Leonis.....	W	...	...	...	50.1	52.6	55.2	2.3	5.0	7.3	9.7	11. 22. 55.16		55.03	5.59	10.56		.....
	38	Bradley 3147 S.P.....	W	50.1	53.9	56.7	0.2	16.8	21.3	24.5	27.7	41.0	43.7	11. 27. 43.03		44.33	54.61	10.28		23. 27. 54.89
	39	Bradley 1672.....	W	39.4	43.7	47.1	50.6	5.9	9.7	15.7	10.1	33.0	38.2	12. 13. 56.02		52.57	3.70	11.13		12. 14. 3.15
	40	δ^2 Corvi.....	W	33.0	35.6	38.0	43.4	45.7	48.7	56.0	58.7	1.2	3.7	12. 24. 48.56		48.56	59.14	10.58		.....
	41	δ 2 L.....	W	52.8	55.2	57.6	3.0	5.3	8.0	15.2	17.9	20.4	23.0	12. 35. 7.99		7.88				12. 34. 11.45
Dec. 20	42	$\odot$ 1 L.....	E	...	...	...	41.2	44.0	51.7	54.5	...	...	...	17. 49. 43.96		55.15				17. 51. 5.86
	43	$\odot$ 2 L.....	E	49.6	52.4	55.2	0.9	3.3	6.3	14.1	17.0	19.3	22.2	17. 52. 6.20						
Dec. 25	44	δ Piscium.....	JS	19.6	22.1	24.6	29.6	32.0	34.7	41.8	44.4	47.0	49.5	0. 43. 34.69	(- 1.99)	34.49	47.79	13.30	13.35	0. 43. 47.86
	45	δ Piscium..... (E&E)	JS	10.7	25.8	40.5	55.8	10.4	25.2	40.1	...	...	...	0. 43. 34.38		34.18	47.79	13.61	[+ 0.54]	.....
	46	20 Ceti.....	JS	43.5	46.1	48.5	53.5	55.7	58.6	5.6	8.1	10.7	13.1	0. 47. 58.49		58.34	11.70	13.36		0. 48. 11.71
	47	20 Ceti..... (E&E)	JS	34.7	49.8	4.5	19.4	34.2	49.2	4.1	...	...	...	0. 47. 58.28		58.13	11.70	13.57		.....
	48	μ Andromedæ.....	JS	59.7	3.0	5.7	12.7	15.5	19.0	28.0	31.2	34.3	37.3	0. 51. 18.83		18.48	31.89	13.41		0. 51. 31.85
	49	θ Ceti.....	JS	50.8	53.2	55.6	0.9	3.2	5.9	13.2	15.5	18.1	20.7	1. 19. 5.87		5.76	19.11	13.35		1. 19. 19.14
	50	Polaris.....	JS	29.8	36.4	41.1	56.7	1.3	6.8	22.4	25.3	32.3	43.5	1. 25. 37.15		34.00	47.22	13.22		.....
	51	α^1 Eridani.....	WB	48.7	51.0	53.3	58.6	0.9	3.4	10.8	13.2	15.7	18.3	4. 7. 3.55		3.43	17.05	13.62	13.53	.....

Correction to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 14, 18, 45, and 47, $-73^s.88$; $-73^s.88$; $-81^s.27$; and $-81^s.27$.
Correction for passage of Semidiameter, No. 41, $-6^s.02$.

7. Observed over wire T with the transit-micrometer set to readings $35^s.108$, $35^s.226$, $35^s.328$, $35^s.617$, $35^s.742$, $35^s.902$, $36^s.183$, $36^s.306$, $36^s.391$, $36^s.667$.
10. Very faint.
11. Observed over wires O, P, Q, Y and Z.
15. Observed over wire Q with the transit-micrometer set to readings $35^s.273$, $35^s.388$, $35^s.533$, $35^s.826$, $36^s.004$, $36^s.120$, $36^s.232$, $36^s.686$, $36^s.804$, $36^s.902$.
20. Observed over wire T with the transit-micrometer set to readings $36^s.616$, $36^s.515$, $36^s.398$, $36^s.282$, $36^s.201$, $36^s.122$, $35^s.985$, $35^s.923$, $35^s.841$, $35^s.716$.
23. Observed over wire W with the transit-micrometer set to readings $35^s.053$, $35^s.119$, $35^s.146$, $35^s.279$, $35^s.308$, $35^s.327$, $35^s.461$, $35^s.488$, $35^s.539$, $35^s.658$.
25. Observed over wire O with the transit-micrometer set to readings $35^s.714$, $35^s.597$, $35^s.513$, $35^s.327$, $35^s.243$, $35^s.154$, $34^s.927$, $34^s.826$, $34^s.743$, $34^s.530$.
29. Observed over wire X with the transit-micrometer set to readings $38^s.105$, $37^s.952$, $37^s.861$, $37^s.767$, $37^s.663$, $37^s.610$, $37^s.503$, $37^s.393$, $37^s.262$, $37^s.163$.
31. Observed over wires X, Y and Z.
33. Observed over wire O with the transit-micrometer set to readings $34^s.016$, $34^s.213$, $34^s.324$, $34^s.688$, $34^s.812$, $34^s.959$, $35^s.244$, $35^s.323$, $35^s.563$, $35^s.795$.
34. Observed over wire R with the transit-micrometer set to readings $36^s.163$, $36^s.118$, $36^s.049$, $35^s.973$, $35^s.914$, $35^s.857$, $35^s.743$, $35^s.724$, $35^s.667$, $35^s.583$.
38. Observed over wire X with the transit-micrometer set to readings $41^s.750$, $41^s.672$, $41^s.593$, $41^s.530$, $41^s.150$, $41^s.060$, $40^s.992$, $40^s.892$, $40^s.610$, $40^s.538$

MONTH 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 ^h Sidereal and (Lossing Rate).	Apparent R.A. of Centre from the Observation.				
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		(Level).										
				s	s	s	s	s	s	s	s	s	s		[Azimuth].										
														h	m	s							h	m	s
Dec. 25	1	γ Tauri.....	WB	58.4	0.8	3.2	8.7	11.0	13.6	21.1	23.8	26.1	28.8	4. 14. 13.71	+ 4.22	13.47	27.08	13.61	13.53						
	2	μ Eridani.....	JS	...	22.8	25.2	30.5	32.8	35.3	42.6	45.0	47.4	...	4. 40. 35.35	(- 8.06)	35.21	48.67	13.46	[+ 0.54]	4. 40. 48.66					
	3	ε Leporis.....	JS	0.0	2.8	5.2	10.9	13.3	16.2	23.7	26.7	29.3	32.1	5. 1. 16.19	- 1.99	16.19	29.67	13.48	13.35	5. 1. 29.65					
	4	δ Ursæ Minoris S.P.....	JS	49.6	55.5	0.2	4.5	8.2	12.4	16.1	19.8	24.0	28.4	6. 2. 3.40		3.91	17.44	13.53							
	5	ν Geminorum.....	JS	54.4	57.0	59.4	5.0	7.4	10.3	17.8	20.7	23.2	25.7	6. 23. 10.25		9.99	23.55	13.56		6. 23. 23.48					
	6	θ Canis Majoris.....	JS	21.3	23.8	26.6	31.5	33.9	36.8	44.0	46.6	49.1	51.6	6. 49. 36.68		36.59	50.13	13.54		6. 49. 50.09					
	7	ρ Argūs.....	JS	3.4	6.1	8.7	14.3	16.9	19.8	27.6	30.5	33.1	35.7	8. 3. 19.77		19.79	33.31	13.52		8. 3. 33.32					
Dec. 26	8	α Serpentis.....	JS	7.4	9.9	12.4	17.5	19.7	22.6	29.5	32.2	34.7	37.1	15. 39. 22.46	+ 4.45	22.28	36.50	14.22	13.89						
	9	ξ Herculis.....	B	10.7	13.6	16.4	22.6	25.1	28.3	36.8	39.6	42.6	45.3	16. 37. 28.28	(- 7.45)	28.02	42.50	14.48	[+ 0.50]						
Dec. 28	10	ζ ¹ Piscium.....	JS	...	...	...	28.9	31.3	34.1	41.3	43.7	46.2	48.8	1. 8. 34.00		33.84	48.79	14.95	14.88						
	11	Polaris.....	JS	0.7	9.0	15.8	30.2	35.2	40.9	55.0	0.7	6.1	15.6	1. 25. 29.96		29.32	44.27	14.95	[+ 0.51]						
	12	η Piscium.....	JS	56.8	59.3	1.6	7.2	9.4	12.5	19.6	22.4	...	...	1. 26. 12.25		12.05	26.91	14.86							
	13	ν Piscium.....	W	2.3	4.7	7.1	12.2	14.6	17.2	24.5	26.9	29.3	31.8	1. 36. 17.21		17.06	32.09	15.03	15.07						
	14	ο Piscium.....	W	55.4	58.0	0.4	5.4	7.9	10.6	17.7	20.6	22.8	25.3	1. 40. 10.57		10.40	25.56	15.16							
Dec. 30	15	⊙ 1 L.....	SD	47.2	...	...	...	...	...	...	16.7	19.5	18. 34. 3.52	- 2.37	} 14.59			15.68	18. 35. 30.69						
	16	⊙ 2 L.....	SD	9.3	12.1	14.7	20.1	22.8	25.6	...	36.2	39.0	41.5	18. 36. 25.64				[+ 0.55]							
	17	δ Aquilæ.....	SD	12.7	15.1	17.6	22.8	25.1	27.6	35.0	37.3	39.8	42.3	19. 20. 27.68			27.53	43.61	16.08		19. 20. 43.65				
	18	Polaris.....	JS	10.8	16.5	22.0	36.4	43.0	48.7	1.3	8.8	14.6	28.7	1. 25. 27.25			27.14	42.11	14.97	15.89					
	19	θ Ceti.....	JS	48.2	50.7	53.1	58.3	0.7	3.3	10.5	13.1	15.4	17.8	1. 19. 3.27			3.19	19.05	15.86						
	20	θ Ceti..... (E&E)	JS	...	0.4	15.4	30.5	45.3	0.2	...	...	...	...	1. 19. 2.95			2.87	19.05	16.18						
	21	η Piscium.....	JS	55.6	58.5	0.7	6.0	8.6	11.1	18.7	21.1	23.6	26.4	1. 26. 11.19			10.98	26.88	15.90						
	22	ν Piscium.....	JS	1.3	3.6	6.3	11.2	13.4	16.0	23.5	26.0	28.4	31.0	1. 36. 16.23			16.07	32.07	16.00						
	23	ν Piscium..... (E&E)	JS	...	13.8	28.4	43.7	58.3	13.2	...	...	...	...	1. 36. 16.06			15.90	32.07	16.17						
	24	β Arietis.....	SD	54.8	57.2	59.6	5.3	7.6	10.7	18.2	20.9	23.3	26.2	1. 49. 10.54			10.32	26.66	16.34	16.23	1. 49. 26.59				
	25	α Arietis.....	SD	20.0	22.8	25.3	30.9	33.4	36.3	44.0	46.9	49.4	52.1	2. 1. 36.28			36.04	52.38	16.34		2. 1. 52.32				
	26	ξ ¹ Ceti.....	SD	...	...	...	...	...	...	52.1	54.7	57.1	59.6	2. 7. 44.87			44.70	0.92	16.22		2. 8. 0.98				
	27	67 Ceti.....	SD	46.4	48.7	51.2	56.4	58.8	1.4	8.6	11.2	13.5	16.1	2. 12. 1.39			1.30	17.55	16.25		2. 12. 17.58				
	28	ξ ² Ceti.....	SD	38.5	41.0	43.3	48.7	51.0	53.6	0.9	3.4	5.9	8.3	2. 22. 53.62			53.45	9.61	16.16		2. 23. 9.73				
	29	δ Ceti.....	SD	8.9	11.1	13.6	18.8	21.1	23.5	30.8	33.3	35.7	38.4	2. 34. 23.67			23.54	39.86	16.32		2. 34. 39.83				
	30	γ ² Ceti.....	SD	54.8	57.3	59.6	4.7	7.1	9.6	16.8	19.4	21.8	24.4	2. 38. 9.70			9.55	25.81	16.26		2. 38. 25.84				
	31	δ Arietis.....	SD	43.4	46.1	48.7	54.0	56.7	59.2	7.0	9.6	12.3	14.8	3. 5. 59.34			59.12	15.42	16.30		3. 6. 15.42				
	32	Groombridge 2283 S.P.....	SD	48.5	54.5	59.4	12.5	17.0	22.1	40.8	45.5	50.5	6.4	3. 6. 36.89			36.29	53.89	17.60						
	33	f Tauri.....	SD	9.7	12.4	14.8	20.0	22.5	25.1	32.6	35.0	37.5	40.1	3. 25. 25.13			24.93	41.23	16.30		3. 25. 41.24				
	34	ε Leporis.....	SD	57.1	59.6	2.6	8.0	10.6	13.3	21.0	23.6	26.4	29.1	5. 1. 13.30			13.31	29.67	16.36		5. 1. 29.65				
	35	δ Ursæ Minoris S.P.....	SD	26.3	32.0	35.6	38.8	41.7	45.6	48.8	52.1	56.1	59.6	6. 2. 1.01			0.46	17.23	16.77		6. 32. 17.58				
	36	γ Geminorum.....	SD	45.7	48.4	50.9	56.3	58.7	1.3	8.9	11.5	14.1	16.7	6. 32. 1.41			1.20	17.61	16.41		6. 39. 0.34				
	37	Neptune.....	SD	28.2	30.8	33.3	38.9	41.3	44.3	51.6	54.7	57.3	59.8	6. 38. 44.19			43.96				6. 49. 50.12				
	38	θ Canis Majoris.....	SD	18.7	21.0	23.4	28.7	31.1	33.8	41.1	43.6	46.2	48.8	6. 49. 33.80			33.73	50.19	16.46						
	39	Cephei 51.....	SD	58.4	2.1	10.0	15.6	31.2	36.7	41.9	56.8	4.8	13.2	6. 56. 44.31			44.02	1.15	17.13	16.21					
	40	ο Leonis.....	W	37.3	39.3	41.6	47.1	49.4	52.1	59.4	1.6	4.7	7.0	9. 35. 52.11			51.93	8.33	16.40						
	41	ε Leonis.....	W	58.7	1.3	3.9	9.5	12.1	15.0	22.8	25.4	28.2	30.9	9. 40. 14.95			14.71	31.20	16.49						
	42	π Virginis.....	W	31.8	34.1	36.6	41.5	44.0	46.7	53.7	56.4	58.8	1.1	11. 55. 46.63			46.46	2.88	16.42						
43	ο Virginis.....	W	53.2	55.6	58.2	3.3	5.8	8.6	15.6	18.2	20.8	23.2	12. 0. 8.41		8.23	24.76	16.53								
44	Bradley 1672.....	W	20.4	23.6	27.7	31.7	50.4	55.2	59.5	3.2	17.4	28.3	12. 13. 53.41		53.20	11.64	18.44								
Dec. 31	45	⊙ 1 L.....	E	...	...	...	23.2	25.6	28.7	36.5	39.1	41.7	44.6	18. 38. 28.60	(- 6.64)	} 39.63			16.22	18. 39. 56.28					
	46	⊙ 2 L.....	E	34.2	37.0	39.5	45.2	47.6	50.7	58.5	1.3	3.6	6.4	18. 40. 50.57	(- 2.13)										

Corrections to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 20 and 23, -87^m.57: and -87^m.57.

4. Observed over wire O with the transit-micrometer set to readings 26^m.213, 26^m.102, 25^m.966, 25^m.863, 25^m.773, 25^m.664, 25^m.573, 25^m.474, 25^m.400, 25^m.283.
 11. Observed over wire O with the transit-micrometer set to readings 33^m.837, 33^m.877, 33^m.946, 34^m.066, 34^m.118, 34^m.172, 34^m.283, 34^m.346, 34^m.371, 34^m.455.
 15. Cloudy.
 17. Very diffused.
 18. Observed over wire P with the transit-micrometer set to readings 34^m.973, 35^m.007, 35^m.075, 35^m.161, 35^m.243, 35^m.304, 35^m.403, 35^m.455, 35^m.521, 35^m.608.
 32. Observed over wire R with the transit-micrometer set to readings 36^m.377, 36^m.280, 36^m.209, 35^m.960, 35^m.911, 35^m.794, 35^m.479, 35^m.400, 35^m.330, 35^m.050.
 35. Observed over wire X with the transit-micrometer set to readings 36^m.272, 36^m.127, 36^m.041, 35^m.962, 35^m.878, 35^m.795, 35^m.730, 35^m.649, 35^m.544, 35^m.479.
 39. Observed over wire Q with the transit-micrometer set to readings 35^m.190, 35^m.327, 35^m.430, 35^m.571, 35^m.856, 35^m.960, 36^m.067, 36^m.393, 36^m.518, 36^m.677.
 44. Observed over wire O with the transit-micrometer set to readings 32^m.140, 32^m.195, 32^m.225, 32^m.312, 32^m.533, 32^m.618, 32^m.678, 32^m.686, 32^m.892, 33^m.020. Faint and diffused.

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.
				I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.								
				s	s	s	s	s	s	s	s	s	s								
Dec. 31	1	γ Piscium.....	B	45.1	47.3	49.7	54.8	57.2	59.9	7.0	9.3	12.0	14.6	23. 11. 59.84	+ 4.45		59.74	16.45	16.71	16.22	23. 12. 16.49
	2	γ Piscium..... (E&E)	B	43.7	58.6	13.4	28.4	43.0	58.1	13.0	...	...	...	23. 11. 59.82	(- 6.64)		59.72	16.45	16.73	[+ 0.55]	.....
	3	δ I L.....	B	46.0	48.4	51.1	56.5	58.8	1.4	8.7	11.4	13.9	16.7	23. 18. 1.45	[- 2.13]		1.40				23. 19. 21.27
	4	κ Piscium.....	B	34.2	36.7	39.1	44.2	46.5	49.1	56.4	59.0	1.3	3.8	23. 21. 49.18			49.09	5.79	16.70		23. 22. 5.84
	5	Bradley 3147.....	B	26.0	33.5	39.3	45.3	2.8	9.3	15.9	30.4	36.4	44.9	23. 27. 33.03			33.35	50.05	16.70		.....
	6	ι Piscium.....	B	34.4	36.8	39.2	44.5	46.7	49.3	56.5	59.0	1.3	4.0	23. 34. 49.33			49.22	5.95	16.73		23. 35. 5.98
	7	ι Piscium..... (E&E)	B	33.0	48.0	2.9	17.8	32.5	47.5	2.6	...	...	...	23. 34. 49.27			49.16	5.95	16.79		.....
	8	α ¹ Tauri.....	JS	36.3	38.9	41.3	47.0	49.4	52.4	59.9	2.7	5.3	7.9	3. 58. 52.27			52.09	8.69	16.60	16.47	.....
	9	α ¹ Tauri..... (E&E)	JS	32.2	48.5	4.7	20.8	36.5	52.3	8.7	...	...	...	3. 58. 51.86			51.68	8.69	17.01		.....
	10	ω ¹ Tauri.....	JS	9.5	12.2	14.8	20.2	22.7	25.3	32.9	35.6	38.2	40.9	4. 3. 25.39			25.21	41.78	16.57		.....
	11	ω ¹ Tauri..... (E&E)	JS	6.3	22.1	37.9	53.8	9.2	25.1	41.2	...	...	...	4. 3. 24.99			24.81	41.78	16.97		.....
	12	ε Tauri.....	B	35.6	38.3	40.8	46.3	48.7	51.3	59.0	1.7	4.1	6.8	4. 22. 51.42			51.25	8.15	16.90	16.77	4. 23. 8.12
	13	Aldebaran.....	B	59.9	2.3	4.8	10.3	12.7	15.3	22.9	25.4	28.0	30.7	4. 30. 15.39			15.23	32.12	16.89		4. 30. 32.10
	14	β Tauri.....	B	47.8	50.7	53.2	59.2	2.0	5.0	13.0	16.0	18.7	21.4	5. 20. 4.88			4.69	21.69	17.00		5. 20. 21.58
	15	δ Orionis.....	B	41.2	43.6	46.0	51.2	53.5	56.2	3.2	5.9	8.3	10.7	5. 26. 56.13			56.04	12.90	16.86		5. 27. 12.93
	16	ε Orionis.....	JS	55.7	58.3	0.8	5.9	8.2	10.9	18.0	20.4	23.0	25.5	5. 31. 10.82			10.73	27.27	16.54	16.47	.....

Correction to the times by Hardy for reduction to Sidereal Standard, applied to form Concluded Transit, Nos. 2, 7, 9, and 11, -88^s.52 : -88^s.52 : -88^s.70 : and -88^s.70.
 Corrections for passage of Semidiameter, No. 3, +63^s.12.

4. Faint.

5. Observed over wire T with the transit-micrometer set to readings 35^r.435, 35^r.588, 35^r.751, 35^r.888, 36^r.285, 36^r.434, 36^r.590, 36^r.875, 37^r.031, 37^r.214.