

KG
11365
72

B.1

No. 1.

Reduction of Transits

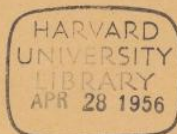
Jan. 1. 1849 to Aug. 16. 1849.

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KG 71365.72



KG-11365.72



19

14

14

14

1849. Jan. 3

X

Ill. East, (probably), for all obs. in this book.

Arcturus		v Piscium		x Arctis		Moon I.V.		5 ² Ceti						
8	59.0	33	51.8		54.2		30.5		25.5					
+19° 58'	9	13.7	+4° 43'	34	5.5	+22° 45'	8.8	+9° 35'	44.7	+7° 47'	39.0			
	9	28		34	19.1		23.7		59.0		52.7			
	9	42.4		34	32.7		38.5		13.0		6.6			
	9	57.0		34	46.8		53.4		27.5		20.2			
	10	11.7		35	00.0		8.0		42.0		34.2			
14	10	26.3		35	14.3	2	0	23.0	2	18	56.3	2	21	48.0
		298.1			230.2			269.6			93.0			46.2
14	09	42.591		34	⁸⁹ 32.7 ²	0		38.52	2	18	13.29	2	21	6.60
		- 2.			- 2			- 2.			- 2.			- 2.
14	09	40.591		34	⁸⁹ 30.7 ²	59		36.52	2	18	11.29	2	21	4.60

* For the Reduction of the observations from Jan. 3. 1849 to July 30. a new method has been used. For explanation of the method see the "Introduction", and for the values of x and y see Reduction of Moon Culminations.

1849 Jan. 3.

M. East

α Ceti	B.A.C. 845	β Urs. Min S.P.	α Ceti
46.0	—		40.8
$+2^{\circ} 36'$ 59.8	$+9^{\circ} 28'$ —	$+74^{\circ} 46'$ —	$+3^{\circ} 30'$ 54.3
13.5	—		8.1
27.1	45.54 45.5 2	52 6.5	22.0
41.0	45.51 59.5		35.5
54.5	45.69 13.5		49.4
2 37 8.5 2	3845.47 27.3		2 56 3.0
190.4			153.1
2 36 27.20 2	37 45.58 2	52 6.67	21.87
-2.	-2.	-2.	-2.
2 36 25.20 2	37 43.58 2	52 4.67 2	55 19.87

1849. Jan 4

M. East

Moon I.V.		5 Tauri		2 Tauri		α Tauri	
	48.0	—		37.4		33.2	
+13° 24	2.5	+9° 12	—	+12° 4	51.5	+16° 12	47.2
	17.0	59.54	45.6		5.2		1.7
	31.7	59.45	59.4		18.9		16.0
	46.1	59.50	13.4		33.5		29.8
	0.2	59.51	27.3		47.5		44.5
3 18	14.93	20 59.00	40.83	3 54	1.44	28	58.8
	160.4	5 2.03			195.4		111.2
	220.43	5			135.38		111.23
3 17	31.493	19 59.40	3 53	19.344	28	15.89	
	-2.	-2.		-2.		-2.	
3 17	29.493	19 57.40	3 53	17.344	28	13.89	

1849 Jan 5

B46 1391 probably

M. East

Moon I. V.		α Tauri		Star of 5 May South		of Moon's line $5^{\circ} \pm$	
	18	57.0	7	35.2		14.8	
+16°	15	12.0	+16° 12	7	49.5	+16° 0	28.5
		26.7	8	2.7		43.2	
		41.5	8	17.2		58.0	
		56.1	8	32.8		12.2	
		10.9	8	46.2		26.5	
4	20	25.64	29	1.04	23	41.0	4
		229.8		124.6		224.2	
		289.8				464.2	
4	19	41.404	28	17.804	22	57.74	4
		-0.		-0.		-0.	
4	19	41.404	28	17.804	22	57.74	4

1849. Jan 6.

Ill. East

α Tauri			β Orionis			Moon I.V.			ϵ Tauri			α Columbae		
—			—			3			8			4		
+16°	12	19.8151.2	-8°	23	—	+18°	7	24.7	+21°	3	58.0	-34°	9	26.0
		20.53 6.2			20.91 7.0			39.7			12.6			42.2
		20.05 20.0			21.25 21.2			53.5			27.0			59.5
		20.01 34.3			21.43 35.3			8.2			42.2			16.3
		20.23 48.8			21.57 49.3			23.7			56.3			32.3
								39.0			11.0			48.8
4	29	20.33 3.3 5	9	21.49 3.2 5	24	53.3 5	30	26.0 5	36	5.3				
						62.1		293.1			110.4			
4	28	20.16 5	8	21.33 5	24	8.87 5	29	41.87 5	35	15.77				
		-2.		-2.		-2.		-2.		-2.				
4	28	18.16 5	8	19.33 5	24	6.87 5	29	39.87 5	35	13.77				

1849 Jan 6

M. East

Orionis

		19.5
+14	47	33.4
		48.
		2.0
		16.0
		30.0
6	0	44.4
		193.3
		13.3
6	0	1.90
		- 2.
5	59	59.90

1849 Jan. 10

M. East

 α Tauri

46.

+16° 12' 0.5

14.5

28.5

43.0

57.0

4 29 11.5

201.0

4 28 28.71

2.

4 28 26.71

1849. Jan. 31

M. East

γ beti	α beti	Moon T.V.	δ Aries	ξ Tauri
6	5			
47.5	42.3	35.8	16.7	18.1
+2° 36' 1.2	+3° 30' 56.0	+12° 10' 50.5	+19° 9' 31.5	+9° 12' 31.7
15.0	9.8	4.6	45.9	46.0
28.6	23.3	18.5	0.3	59.8
42.5	37.2	33.1	14.8	13.8
56.0	51.	47.6	29.5	27.5
2 38 10.2 2	57 4.5 2	59 2.0 3	5 44.0 3	21 41.5
201.0	224.1	192.0	182.7	238.4
	164.1	132.1	2.7	418.4
2 37 28.7 1 2	56 23.44 2	58 18.8 6 3	5 0.38 3	20 59.77
-2.	-2.	-2.	-2.	-2.
2 37 26.7 1 2	56 21.44 2	58 16.8 6 3	4 58.38 3	20 57.77

1849 Jan. 31

M. East

	5 Urs. Min			unk. 8 mag		β Orionis		ϵ Orionis	
1	15	48	10.0		36.8	8	35.9	29	52.7
7	$+78^{\circ} 15'$	49	16.2	$8^{\circ} 23'$ (probably)	50.3	$+8^{\circ} 23'$	50.0	$-1^{\circ} 18'$	6.5
0		50	22.5	(no note)	5.2		4.0		20.0
8		51	30.	5	8		17.5		33.9
8		52	38.		—		31.3		47.2
7.5		53	45.5	18.39	—		44.9		1.2
5.5		54	51.7	18.07	—	5	58.95	31	15.0
4		360	33.9	19.11			242.5		176.5
4				18.75			122.5		236.5
77	15	51	30.565	8	18.58	5	17.505	30	33.79
			-2.		-2.		-2.		-2.
77	15	51	28.565	8	16.58	5	15.505	30	31.79

1849. Feb. 9

Ill. East

δ Geminor		δ^2 Geminor		15 Argus		ϵ Hydrae	
2	43.0	26	30.2	2	44.4	0	25.6
+22° 15'	57.5	+32° 13'	46.5	-23° 52'	0.0	+6° 58'	39.5
	12.2		2.5		15.1		53.7
	26.7		18.6		29.9		7.4
	42.0		34.8		45.0		20.8
	56.7		51.2		0.0		34.8
7 14	11.5	7 28	7.6	8 4	15.0	8 41	48.7
	249.6		191.4		149.4		230.5
	189.6		131.4		209.4		50.5
7 13	27.09	7 27	18.77	8 3	29.91	8 41	7.21

1849. Feb. 13

Ill. East

α Orionis		μ Geminor		δ Cephei	
48	49.7	5	36.8	—	—
+7° 22'	3.8	+22° 35'	51.0	87° 15' 28"	—
	17.7		6.0	—	—
	32.		21.0	6	30 50.3
	45.7		35.6	—	—
	59.		51.0	—	—
5	50	12.2	6	17	6.0
	220.1		207.4		147.4
5	49	⁴⁴ 31.7	6	¹⁶ 21.0	6 30 51.24

1849 Feb. 19

M. East

♂ Orionis		♀ Orionis		♂ Columbae	
6	20.3	0	36.	6	5.5
-0° 25'	34.5	-1° 18'	49.0	-34° 10'	22.0
	47.5		4.0		38.7
	2.0		17.4		55.2
	15.5		31.2		12.2
	29.3		44.5		28.5
5 27	42.8	5 31	58.2	5 39	45.
	191.9		240.3		207.1
	11.9		120.3		387.1
5 27	1.705	5 31	17.145	5 36	55.29

1849 Feb. 23.

Al. East

 β Orionis β Tauri

	9	27.8	18	51.9
-8° 23'		42.0	+28° 28'	6.3
		55.7		22.0
		9.5		38.0
		23.2		54.0
		37.0		9.5
5	10	51.05	20	25.
		246.2		266.7
		66.2		
5	10	9.465	19	38.10
		-2.		-2.
5	10	7.465	19	36.10

1849 March 1.

Ill. East

α Canis Maj.		ϵ Canis Maj.		δ Geminor.		α Canis Min.	
0	57.0	5	4.8	3	31.5	3	53.
-16° 31'	11.2	-28° 44'	20.2	+22° 15'	46.5	+5° 36'	6.7
	25.5		35.5		1.7		20.5
	40.0		51.8		16.5		34.4
	54.3		7.4		31.8		48.3
	8.4		23.0		46.0		2.2
6 42	22.8	6 56	38.7	7 15	1.5	7 35	15.8
	219.2		181.4		175.5		180.9
	279.2		361.4		115.5		240.9
6 41	39.9	6 55	51.63	7 14	16.50	7 34	34.41
	-2.		-2.		-2.		-2.
6 41	37.9	6 55	49.63	7 14	14.50	7 34	32.41

1849. March 3.

M. East

♄ Geminor		Moon I.V.		♄ Geminor		♂ Geminor		♂ ² Geminor	
	23.0		18.5		41.1		382		25.4
+13° 3	36.6	+18° 23	33.2	+20° 47	55.8	+22° 15	52.5	+32° 13	41.5
	50.5		48.0		10.2		7.5		57.5
	4.6		3.0		25.2		22.2		14.0
	19.0		18.0		39.8		37.0		29.8
	33.0		32.5		54.4		51.8		46.0
6 40	46.9	6 44	47.6		9.27	15	6.77	29	2.5
	213.6		200.8		235.7		215.9		216.7
	33.6		20.8		175.7		155.9		96.7
6 40	2.806	6 44	2.976	58	25.107	14	22.277	28	13.81
	-2.		-2.		-2.		-2.		-2.
6 40	2.806	6 44	0.976	58	23.107	14	20.277	28	11.81

1849. March 3

Ill. East

α Canis Min		β Geminor	
	58.5		34.0
+5 36	12.5	+28° 23	49.0
	26.2		4.5
	40.0		20.0
	54.0		35.8
	7.5		51.5
7 35	21.2	7 40	7.0
	219.9		201.8
	279.9		141.8
7 34	39.99	7 39	20.26
	-2.		-2.
7 34	37.99	7 39	18.26

1849. March 5

M. East

δ Geminor		α^2 Geminor		β Geminor		δ Cancri		η Cancri	
13	42.5		29.9		38.5		31.7		54.5
+22° 15'	56.9	+32° 13'	45.9	+28° 23'	54.0	+16° 52'	45.8	+14° 5'	8.6
	12.1		2.2		9.5		0.5		22.8
	26.8		18.1		25.0		14.4		36.7
	41.7		34.6		40.8		28.9		51.0
	56.5		51.0		56.4		43.3		5.0
7 15	11.2	7 29	7.0	40	12.0	56	57.8	8 4	19.5
	247.8		188.7		236.2		222.4		198.1
	187.7		126.7		176.2		102.4		258.1
7 14	26.83	7 28	18.39	39	25.17	56	14.63	8 3	36.87
	-2.		-2.		-2.		-2.		-2.
7 14	24.83	7 28	16.39	39	23.17	56	12.63	8 3	34.87

849. March 5

M. East

Moon I.V. α Cancri

38.5

+15° 17'

52.6

+12° 26'

7.1

34.59 20.5

21.8

34.85 34.8

36.5

34.74 48.8

51.0

34.71 2.8

8 45

5.5 8

54.34.55 16.8

213.0

153.0

8 44

21.86 8

53

34.69

-2.

-2.

8 44

19.86 8

53

32.69

1849. March 9

M. East

β Tauri		δ Orionis	
9	29.5	7	7.
+2.8 28	44.8	-0.5 25	21
	0.		34.8
	15.7		48.3
	32.		2.0
	47.5		15.3
5 21	2.7	5 28	29.8
	111.2		338.2
	16.03		
5 20	15.895	27	48.31
	-2		-2.
5 20	15.895	27	46.31

1849. March 16

M. East

α Canis Maj		ϵ Canis Maj	
1	35.4	5	43.7
-16° 31'	49.8	-28° 47'	58.5
	4.2		14.4
	18.0		30.0
	32.8		46.0
	47.0		1.2
6 43	1.0		17.0
	128.26	57	210.8
6 42	18.316	56	30.11
	-2.		-2.
6 42	16.316	56	28.11

1849. March 19.

M. East

 α Lyrae

53.0

+33° 11'

10.8

28.5

45.9

3.4

21.0

18 36

38.4

201.0

321.0

18 35

45.89

-2.6

18 35

43.89

1849. March 22.

Ill. East

Canis Maj		ϵ Leonis	
1	52.	0	38.
-16° 31'	6.	+24° 28'	53.5
	21.		8.2
	35.3		23.3
	49.		38.7
	4.		54.0
6 43	18.5	9 42	9.
	185.8		224.7
	245.8		164.7
6 42	35.11	9 41	23.53
	-2.		-2.
6 42	33.11	9 41	21.53

1849. March 31

M. East

Star	2.d	26° 10'
		7.5
+ 22°	13	21.5
		36.0
		50.2
		4.5
		18.8
//	//	32.8
		17 1.3
		351.3
//	10	50.19

1849. Apr. 2.

Ill. East

 ϵ Hydrae

41.2

+6° 58'

55.0

9.0

22.6

36.5

50.0

8 44

4.

218.3

8 43

22.61

-2.

8 43

20.61

1849. Apr. 7

Ill. East

S. Lewis

10.5

21° 21'

25.0

39.3

54.3

8.8

23.5

// //

38.3

199.7

// // 10 54.24

1849. Apr. 17.

M. East

δ Orionis		ϵ Orionis		ζ Orionis		μ Geminor		γ Uls Maj	
8	52.5	3	8.0	1	34.8	8	21.3	42	26.
-0° 25'	6.0	-1° 18'	21.8	+7° 22'	48.2	+22° 35'	36.0	+54° 32'	49.3
	20.2		36.0		2.3		50.9		11.6
	33.7		49.5		15.9		6.0		36.2
	47.2		3.0		30.0		20.8		59.5
	1.		16.7		43.5		35.3		23.5
5 30	15		30.3	5 52	57.2	6 19	50.2	11 44	46.5
	176.0		165.3		231.9		220.5		
5 29	33.71	5 33	49.33	5 52	15.89	6 19	5.79	11 43	36.10
	-2.		-2.		-2.		-2.		-2.
5 29	31.71	5 33	47.33	5 52	13.89	6 19	3.79	11 43	34.10

1849 Apr. 19

M. East

S Leonis

11	2	57.5
+21°	21	12.3
		27.5
		41.5
		57.3
		11.4
11	4	26.3
		233.8
10	11	3
		41.97

10

1849. Apr. 21

Ill. East

1849phae.p

β Orionis			β Tauri			ϵ Orionis			α Orionis			β Geminae			ϵ
5	12	1.5	5	21	24.	5	33	18.	5	51	44.7	7	0	44.9	6
		15.			40.			32.			58.4			0.4	
-8°	23	28.7	+28°	28	55.5	-1°	18	45.4	+7°	22	12.	+28°	23	15.8	-2
		42.5			11.			59.			25.8			31.3	
		56.8			27.			12.7			40.3			46.4	
		10.5			42.2			26.5			54.7			23	
		21.3			58.		34	40.7			7.5	7	42	18.4	
		176.3			257.7			234.3			243.4			219.5	
5	12	42.33	5	22	11.10	5	33	59.19	5	52	26.20	7	41	31.36	6
														-2.	
												7	41	29.36	6

Apr. 21.

M. East

1849phae F

	ϵ Canis Maj			α Canis Maj			δ Geminor			α^2 Geminor			α Canis Major			
9	6	57	20.7	6	43	13.			—	7	29	35.7	6		9.9	
4			36.5			27.	7	16	32.98	3.3		52.			23.3	
8	-28°	47'	52.3	-16°	31'	42.5	+22°	15'	32.16	77.3	+32°	13'	8.	+5°	36'	37.0
3			8.			55.8			33.05	33.		24.			50.8	
6			23.7			10.4			32.77	47.6		40.4			5.0	
			35.3			24.5			33.06	2.7		56.7	7	37	18.5	
	58		55.	6	44	38.8			—		31	12.5			32.5	
						212.0						169.5			177.0	
6	6	58	7.93	6	43	56.00	7	16	32.80		7	30	24.21	7	36	51.00
			-2.			-2.			-2.			-2.			-2.	
36	6	58	55.93	6	43	54.00	7	16	30.80		7	30	22.21	7	36	49.00

1849. Apr. 23.

Ill. East

α Tauri			α Aurigae			β Tauri			δ Orionis			α Orionis		
32	2.	5	10	4.7								5	51	50.
3				24.5				45.2						4.
+16° 12'	30.5	+45° 50'	44.3		+28° 28'	7.	-0° 25'	35.5	+7° 22'	17.2				
	46.5		3.4		16.45	16.5	49.26	49.		31.2				
	1.		23.2		16.55	32.4	49.05	3.		45.5				
	12.5		43.0		16.79	47.	49.27	16.4		59.2				
			3.0		16.56	3.5	48.97	31.5	53	13.				
33	27.		146.1				50.24			220.1				
		5	11	3.59		16.59		49.365	52	31.44				
				-2.		-2.		-2.		-2.				
		5	11	1.59		14.59		47.365	52	29.43				

Revised compared

1849. Apr. 24

M. East

424.8 beats off.

"

α Tauri			α Canis Maj			α Leonis			δ Leonis			α Urs. Maj		
4	32	7.	6	43	21.2	10	5	13.5	11	1	49.	10?	10	21.6
		21.7			35.3			28.			5.			52.
2	+16° 12'	35.7	2	-16° 31'	49.7	2	+12° 42'	41.8	2	+21° 21'	17.5	2	+62° 34'	22.
2	49.84	—			4.0			56.			34.			50.8
5	50.31	4.			18.5			10.			48.5			21.9
2	50.03	18.5			32.7			24.			3.5			51.
	49.71	32.7			47.2	10	6	37.8			18.5		52	21.
1	49.93				208.6			213.1			176.0			240.3
	49.73													
44	4	32	49.93	6	44	4.09	10	5	56.16	11	2	16.57	10	50 51.61
									-2					
43						10	5	54.16						

1849. Apr. 24.

4248 beats off.

W. East

Hyd. librat.	
7	35.3
	49.3
-13° 58'	3.7
	17.5
	31.8
	46.0
11 9	0.0
	183.6
11 8	17.66

1849. Apr. 26

by 2557

Ill. East

by 2440

α Canis Min			β Geminor			β Geminor			δ Hyd. et Crat.		
7	36	22.7	7	40	57.5	11	2	46.2	8	31.5	
		36.5			13.0			1.2		45.5	
+5°	36	50.2	+28°	23	28.7	+28°	23	15.5	-13°	58	0.0
		4.0			44.4			30.0		13.5	
		17.9			0.0			44.7		28.5	
		31.5			15.4			0.3		42.2	
7	37	45.5	7	42	31.4			14.3	11	9	56.1
		208.3			190.4			152.2			217.3
7	37	4.04	7	41	44.34	11	3	30.31	11	9	13.90
					-2.						-2.
			7	41	42.34				11	9	11.90

1849. Apr. 30

Ill. East

Cygni

20	1	9.8
		29.0
+44°	44	48.2
		7.5
		27.2
		46.0
20	43	5.5
		173.2
20	42	7.60
		-2.
20	42	5.60

1849 May 2.

M. East

α Cygni		α Orionis		α Canis Maj	
41	15.	52	14.		42.0
	34.1		27.7		55.6
+44° 44'	53.4	+7° 22'	41.5	-28° 47'	10.6
	12.5		55.5		26.1
	32.5		9.4		39.5
	52.		22.9		53.8
20 48	11.	5 53	37.0		8.1
	210.5		208.0		234.7
20 42	10.935	52	55.43		24.96
	-2.		-2.		
20 42	10.935	52	53.43		

1849. May 9

Ill. East

Virginis

	2	51.5
		5.6
-10°	22	19.5
		33.4
		47.5
		1.4
13	24	15.5
		174.4
		-
13	23	33.49
		-2.
13	23	31.49

1849. May 10

Ill. East

α Urs. Maj		δ Leonis		δ Hyd. Cent.	
9	12.5	1	40.	7	25.
	42.2		55.0		39.5
+62° 34'	12.0	+21° 21'	9.7	-13° 58'	54.0
	41.4		24.0		8.2
	11.3		39.0		21.8
	40.5		53.7		36.4
11	2	11	13	11	18
	10.2		8.5		50.5
	170.1		229.9		235.4
11	1	11	12	11	18
	41.44		24.48		7.91
	-2.		-2.		-2.
11	1	11	12	11	18
	39.44		22.48		5.91

1849. May 10

M. East

β Aquarii			ϵ Pegasi		
9	30.2		2	39.6	
	44.0			53.0	
-6° 14'	57.7	+9° 11'		6.7	
	10.8			21.0	
	24.6			35.0	
	39.0			48.5	
21	30	52.5	21	44	2.4
	258.8			206.2	
21	30	11.26	21	43	20.90
	-2.			-2.	
21	30	9.26	21	43	18.90

1849. May 12

M. East

β Corvi	Polaris S.P.	α Virginis		
2 10.0		—		
24.2	+ 88° 30' 5"	-70° 22'	13.	40.93
-22° 34' 39.0			27.3	41.29
54.0	13 10 54.		41.3	41.35
8.7			55.2	41.25
24.0		13 24	9.4	41.51
12 33 39.0				
198.9				
12 32 54.13	13 10 52.28	13 23 41.35		
-2.	-2	-2		
12 32 52.13	13 10 50.28	13 23 39.35		

1849. May 17.

M. Ear

α Leonis			α Ues. Maj.			δ Leonis		
	—		9	30.6		1	58.8	
+12° 42'	—		+62° 34'	0.5		+21° 21'	13.7	
57.90	43.8			30.3			28.3	
57.85	57.8			0.0			43.0	
57.83	11.9			29.9			57.6	
57.68	25.8			59.7			12.5	
10	757.70	40.0	11	2	29.6	11	13	27.8
								241.7
10	6	57.79	11	1	0.09	11	12	43.10
		-2			-2.			-2.
10	6	55.79	11	0	58.09	11	12	41.10

1849. May 18

M. East.

α Urs Maj		δ Leonis	
—	—	2	1.8
62° 34'	—	+21° 21'	16.2
—	—	—	30.9
12.30	2.2	—	45.8
2.91	32.7	—	0.4
2.76	2.3	—	15.0
11	22.64	32.2	11
—	—	13	30.0
—	—	—	140.1
11	1	2.65	11
—	—	12	45.73
—	—	-2.	—
11	1	0.65	11
—	—	12	43.73

1849. May 19.

lll. East

Mr. Maj. S. Lewis

—	2	4.0	
+62° 34	5.5 +21° 21	18.4	
5.13	35.4	33.4	
5.26	5.5	47.8	
5.60	35.4	3.0	
5.61	5.0	17.5	
5.46	— 11 13	22.6	
		156.7	
5.41	11 12	48.10	
-2.		-2.	
3.41	11 12	46.10	

1849. May 26

M. Earl

α Urs. Maj		δ Leonis		β Leonis		Polaris S.P.			
9	56.4	2	24.6	7	43.3	88° 36' 24"	—		
	25.0		39.4		57.3	12	54	13.2	+17' 29.4 42.6
+62° 34'	55.6	+21° 21'	54.2	+15° 25'	11.5		2	51.5	+8 44.7 36.2
	25.4		9.		26.0		11	43.3	-0 1.7 41.6
	55.4		23.7		40.1		20	34.	-8 45.9 48.1
	25.2		38.2		54.4		29	12.	-17 31.0 41.0
11	2	11	13	11	49	8.5			
	298.2		242.1		2411				
11	1	11	13	11	48	25.87	13	11	41.90
	-2.		-2.		-2.				-2
11	1	11	13	11	48	23.87	13	11	39.90

1849. June 1.

Ill. East

Pegasi		α Pis. Aus.					
0	37.0	5	52.				
	50.8		7.8				
+40° 3'	4.5	-30° 25'	23.5				
	18.2		39.7				
	32.5		55.6				
	46.3		11.7				
22 42	0.0	22 57	27.3				
	129.3		277.6				
22 41	18.47	22 56	39.66				
	-2.						
22 41	16.47						

1849. June 5

M. East

α Pis. Ans.		Polaris		Polaris S. P.			
30° 25'	5	59.9	0	46	0.0	—	
		15.7		54	45.3	12	54 46.0 +17 29.1 15.1
		31.4	86 30 1.2	3	32.0	86 30 1.1	3 29. + 8 44.6 13.6
		47.5		12	12.3	12	16. - 0 1.7 14.3
		3.3		21	0.4	21	3. - 8 45.8 17.2
22 57		19.2		29	44.2	29	47 - 17 30.8 16.2
		35.7		38	32.3	38	27.5 - 26 15.5 12.0
		212.7					
22 56		47.531		12	15.2	12	12 14.73
		-2.			-2.		-2
22 56		45.531		12	13.2	12	12 12.73

1849. June 7

M. East

α Leonis		α Urs. Maj		δ Leonis		Polaris S.P.					
4	7.	0	28.0	2	56.3	12	46	5.5	+26	20.0	25.5
+24° 28	22.	+62° 34'	57.6	+21° 21	11.0	53 30 1.0	54	54.0	+17	29.1	23.1
	37.		27.4		26.7						
	52.		57.		40.4	13	12	24.	-0	1.7	22.3
	7.		27.0		58.2						
9	45		56.4		9.8						
	37.	11	26.5	11	24.3						11
	184.2		279.9		222.7						
9	44	52.03	11	1	57.13	11	13	40.39	13	12	23.63
	-2.		-2.		-2.			-2			
9	44	50.03	11	1	56.13	11	13	38.39	13	12	21.63

June¹¹ 1849

M. East

♂ Leonis

3 6.3

+21° 21' 21.1

35.9

50.3

5.5

20.2

11 14 35.

174.3

11 13 50.61

-2.

11 13 48.61

849 June 14

M. Ear

1849phae.F

Polaris S. P.			α Virginis			Red. Polaris		
2	46	28.5		4	28.1	+ 26	19.8	48.3
88° 30' 0.4	—	—		-10° 22	42.0			
	4	0.7			56.0	+ 8	44.1	44.8
	12	48.5			10.0	- 0	1.7	46.8
	21	29.0			24.0	- 8	45.7	43.3
	30	16.5			38.0	- 17	30.6	45.9
	39	0.3	13	25	51.9	- 26	15.2	45.1
					250.0			
13	12	45.70	13	25	10.00			
		-2			-2.			
13	12	43.70	13	25	8.00			

1849. June 17

M. East

Polaris

88° 30' 0.3"

1 4 11.5 + 0 1.7 13.8

21 41.5 - 17 30.6 10.9

1 4 12.35-

- 2

1 4 10.35-

1849. June 18

M. Ear

α Leonis		Polaris S.P.					
7	41.7						
	55.9	12	55	30.	+17	29.0	59.0
+12° 42	10.0	88° 30' 0.3 4		15.	+8	44.1	59.1
	24.1	13		0.	-0	1.7	58.3
	38.2						
	52.1						
10	9	6.2					
	228.2						
10	8	24.03	13	12	58.80		
	-2.			-2			
10	8	22.03	13	12	56.80		

1849. June 21.

424.

M. Earl

ϵ Bootis			α^2 Librae			β Librae			α Coronae			α Serpentis		
14	35	40.6			50.6	6		14.8				4		11.2
		55.9			6.5			29.2						25.2
+27° 43'		11.6	-15° 25'		21.0	-8° 49'		43.0	+27° 14'			+6° 54'		39.0
		26.8			35.2			56.3	20.05		20.0			52.2
		42.4			49.5			10.5	20.76		36.2			6.5
		58.1			3.5			24.2	20.15		51.0			20.3
14	37	13.8	14	41	18.0	15	7	38.3	15-20.5927		7.0	15	35	34.7
		249.2			184.3			216.3						189.1
14	36	27.03	14	40	34.90	15	6	56.61	15	26	20.39	15	34	52.72
		0			0			0.			0			0.
14	36	27.03	14	40	34.90	15	6	56.61	15	26	20.39	15	34	52.72

1849. June 21

424

Ill. Ear

β Scorpii		α Scorpii					
53	58.8	7	26.0				
	13.2		41.0				
-19° 23'	27.7	-26° 5'	56.7				
	42.3		12.0				
	56.8		27.4				
	11.4		43.				
15 55	25.7		58.0				10
	295.9		264.1				
15 54	42.27	16 8	12.01				
	0.		0.				
15 54	42.27	16 8	12.01				10

1849. Jun 23

W. Ear

α Leonis		α Urs. Maj		δ Leonis		β Leonis		γ Urs. Maj	
7	52.7	1	7.1	3	35.8	8	54.5	2	56.5
	6.5		36.9		50.4		8.4		20.0
+12° 42'	20.7	+62° 34'	6.5	+21° 21'	5.0	+15° 21'	23.0	+54° 32'	43.5
	34.9		36.0		20.0		37.0		7.4
	49.0		5.8		34.7		51.4		31.0
	3.2		36.0		49.3		5.7		54.5
10 9	17.0	11 4	5.8	11 15	4.	11 50	19.9	11 55	18.2
	184.0		134.1		199.2		199.9		231.1
	34.86	11 2	36.30	11 14	19.86	11 49	37.13	11 54	7.30
	-2.		-2.		-2.		-2.		-2.
10 8	32.86	11 2	34.30	11 14	17.86	11 49	35.13	11 54	5.30

1849, June 23

Ill. Ear

Polaris S.P.

13	46	55.5
	55	45.3
88 30 6.2 4		28.5
	13	13.7
	21	57.3
	30	45.0
	39	28.0
		273.3
13	13	13.33
		-2.
13	13	11.33

1849, June 25

W. Earl

Polaris			α Aurigae		
0	47	4.0	6	14.8	
	55	48.5		29.4	
88° 30' 0.2"	4	32.0	+22° 45'	43.5	
	13	16.0		59.	
	22	2.7		14.2	
	30	44.0		29.0	
	39	35.0	2	44.0	
	93	2.2		233.9	
1	13	17.43	2	6	59.13
		-2.			-2.
1	13	15.43	2	6	57.13

1849. June 26

M. East

α Urs. Maj'		Moon I.V		γ Virginis	
1	12.0	6	21.0	1	42.5
	41.0		35.0		56.3
+62° 34'	11.0	+ 2° 22'	48.8	-0° 37'	10.0
	41.0		3.2		23.5
	10.5		16.8		37.4
	40.5		31.6		51.2
11 4	10.3 12	7	45.4 12	43	5.0
	166.3		201.8		225.9
	286.3		21.8		165.9
11 2	40.90 12	7	3.11 12	42	23.70
	0.		-2.		-2.
11 2	40.90 12	7	3.11 12	42	21.70

1849 June 27

M. East

α Urs Maj		δ Leonis		β Leonis	
1	16.1	3	45.	9	3.8
	46.0		59.8		17.4
+62° 34'	16.0	+21° 21'	14.0	+15° 25'	32.0
	45.6		28.9		46.0
	15.5		44.1		0.1
	44.9		58.8		14.2
11 4	15.0	11 15	13.0	11 50	28.5
	199.1		263.6		142.0
11 2	45.59	11 14	29.09	11 49	46.00
	-2.		-2.		-2.
11 2	43.59	11 14	27.09	11 49	44.00

1849. June 30

Ill. East

Anon.		♂ Librae		Moon I.V		♀ Librae	
8	21.4	59	45.4	1	19.0	25.5	
	35.2		59.3		33.0	39.0	
-7° 5' (prob.)	49.0	-7° 5'	13.0	-12° 5'	47.4	53.5	
(no note)	3.0		26.7		1.5	6.5	
	16.6		40.3		16.3	22.0	
	30.7		54.1		30.5	36.5	
14 59	44.7	15 1	7.8	15 22	45.3	51.0	
	200.6		246.6		193.0	234.0	
	20.6		186.6		13.0	50.0	
14 59	2.86	15 0	26.66	15 22	1.86	7.71	
	0.94		0		0.		
14 59	2.86	15 0	26.66	15 22	1.86	7.71	

1849. July 4

Ill. East

β Leonis		γ Urs. Maj		Polaris S.P.					
9	22.3	3	24.1	12	47	37.0	+26	19.8	56.8
	36.7		47.6		56	25.5	17	29.0	54.5
+15° 25'	51.0	+54° 32'	11.3	88° 30' 0.5"	5	10.0	+8	44.1	54.1
	6.2		35.0						
	19.3		58.7		22	41.0	-8	45.7	55.3
	33.4		22.3		31	24.5	-17	30.6	53.9
11 50	47.7	11 55	45.8		40	7.2	-26	15.2	52.0
	215.6		244.8						
11 50	5.09	11 54	34.97	12 13	54.43				
	-2.		-2.		-2.				
11 50	3.09	11 54	32.97	12 13	52.43				

1849 July 12.

Ill. East

α Tauri			α Orionis		
5	34.2		5	36.8	
	47.7			50.2	
+16° 12'	2.8		+17° 22'	4.2	
	17.3			18.2	
	32.0			32.0	
	45.9			46.0	
4 37	0.15		17	0.0	
	180.0			187.4	
14 36	17.145		16	18.20	
	-2.			-2.	
14 36	15.145		16	16.20	

1849 July 13.

Ill. East

1845 pae

Polaris S.P.			α Virginis		α Bootis		ϵ Bootis			ζ Librae			
12	47	52.5	5	36.8	17	5.9		41.3	50	53.5			
	56	48.4		50.4		20.4		56.5		7.8			
88° 30' 13"	5	30.3	-10° 22'	4.3	+19° 58'	35.7	+27° 43'	11.5	+15° 25'	22.1			
20.1	12.6	14		18.2		50.0		27.2		36.9			
29.1	17.5	—		32.0		4.8		43.0		49.8			
44.7	15.0	31		46.0		19.1		58.5		4.8			
-1.7	18.1	40	29.2	13	27	0.0	14	18	33.8	14	48	14.	18.7
45.8	14.7			187.7		169.7							
30.8	13.7												
185.5	14	15.7	13	26	18.24	14	17	49.96	14	47	27.43	51	36.04
		-2			0.			0.					
13	14	13.27	13	26	18.24	14	17	49.96					

1849 July 15

Ill. East

1849phae. p

α Aurigae	Moon T.O	α Tauri	β Orionis	ϵ Orionis	α
7 6.8	4 34 45.5	4 35 41.3	5 32 44.5	5 37 0.2	5
21.3	0.0	55.5	58.2	13.8	
+22° 45' 36.3	+16° 30' 14.7	+16° 12' 9.8	-0° 25' 12.0	-1° 18' 27.5	+7
51.2	29.4	24.0	25.5	41.0	
6.1	44.3	38.2	39.0	55.0	
20.8	58.8	52.5	52.8	8.5	
2 8 36.0	4 36 13.7	4 37 6.8	5 34 6.8	5 38 22.5	
178.5	206.4	228.1	238.8	168.5	
358.5			178.8	288.5	
2 7 51.21	4 35 29.49	4 36 24.01	5 33 25.54	5 37 41.22	5
-2.					
2 7 49.21					

1849 July 15

Ill. East

 α Orionis α Canis Maj

5 55 7.44 26.0

54.5

8.00 40.3

9.3

+7° 22

-16° 31

23.0

37.0

52.0

6.3

6

48

20.6

202.7

262.7

5.3

5 56

7.74 6

47

37.07

1849. July 20

M. East

1849phae.p

ϵ Orionis				Polaris S.P.			α Virginis			ϵ Bootis			α^2 Librae		
4	22.35	41.2	12	45	53.5		3	24.5		4	29.2		8	41.6	
	22.48	55.		54	47.0			38.3			44.2			56.0	
-1°	18	22.76	9.0	88° 30'	2.13		-10° 22'	53.0		+27° 43'	59.7		-15° 25'	10.2	
				12	16.0			6.3			15.2			24.2	
	22.27	36.0		20	58.0			20.0			30.8			38.3	
	22.56	50.0		29	48.0			33.8			46.2			52.6	
5	36	22.43	3.7	13	38	25.7	13	24	48.	14	46	2.0	14	50	6.8
				85	32.2				223.9			227.3			229.7
5	35	22.47	13	12	13.17	13	24	6.27	14	45	15.33	14	49	24.24	
		-2			-2.			-2.			-2.			-2.	
5	35	20.47	13	12	11.17	13	24	4.27	14	45	13.33	14	49	22.24	

1849. July 23.

M. East

β Draconis			γ Draconis			μ Sagittarii		
6	5	21.5	1	27.5	3	26.0		
0		44.6		50.0		42.5		
2	+52° 25'	6.3	+51° 31'	12.0	-21° 5'	57.0		
2		29.0		34.3		12.2		
3		51.2		58.7		26.6		
6		14.0		18.0		40.7		
8	17 37	36.5	18 3	39.8	18 14	55.6		
7		203.1		237.3		262.6		
24	17 36	29.01	18 2	33.90	18 14	11.80		
		-2.		+2		-2.		
24	17 36	27.01	18 2	31.90	18 14	9.80		

1849. July 23.

Ill. East

α Scorpii			ϵ Urs. Min.			α Herculis				
8	50.4	17	6	6.3	0.0	6	31.0			
	6.5			6.8	42.5		44.9			
-26° 5'	22.0	+82° 16' 50"	5.9	23.5		+14° 34'	58.8			+2
	37.0		5.8	5.5			13.1			
	52.4		6.3	48.5			27.4			
	7.3		6.3	30.5			41.5			
16	30	23.0		—		17	17	56.0		15
								27.27		
16	29	36.94	17	11	6.23	17	17	13.24		2 15
	-2.				-2			-2		
16	29	34.94	17	11	4.23	17	17	11.24		21 15

1849. July 24

Ill. East

 α Serpentis

5 37.4

51.5

+27° 14 5.4

19.2

33.0

47.0

(15 47 0.5

195.0

2 15 46 19.30

-2.

21 15 46 17.30

849. July 26

M. East

α Tauri		α Aurigae		ϵ Orionis		α Orionis	
6	7.8	4	8.8	7	26.3	5	53.0
	22.0		28.0		40.2		6.7
+16° 12'	36.4	+45° 50'	47.7	-1° 18'	54.2	+7° 22'	20.7
	50.6		7.4		8.1		34.6
	4.8		27.3		21.4		48.0
	19.		47.0		35.3		2.0
4 37	33.35	16	6.8	5 38	49.25	57	16.0
	173.9		173.0		234.7		181.0
4 36	50.765	15	7.54	5 38	7.815	56	34.43
	-2.		-2.		-2.		-2
4 36	48.765	15	5.545	5 38	5.815	56	32.43

1849. July 27

Ill. East

1849 June

β Vir. Min.			Moon IV		β Librae		α Serpenti		β Scorpii					
58	10.2		5	9.7	7	48.3	5	45.8	6	33.6				
	2.			23.8		2.2		59.4		48.0				
+74° 46' 40"	54.3	-11° 35'		38.3	-8° 49'	16.2	+6° 54'	13.1	-19° 23'	2.3				
	46.2			53.0		30.1		27.0		17.0				
	38.0			7.2		44.0		41.0		31.5				
	30.3			21.5		58.0		54.7		46.0				
15	3	22.2	15	6	36.0	15	19	12.0	15	47	8.4	16	8	0.5
		203.2			189.5			210.8			248.7			178.9
					369.5						188.9			118.9
15	0	46.46	15	5	52.79	15	18	30.11	15	46	27.00	16	7	16.99
		-2.			-2.			-2			-2.			-2
15	0	44.46	15	5	50.79	15	18	28.11	15	46	25.00	16	7	14.99

1849 July 27

Ill. East

 δ Ophiuchi

5 22.2

36.0

-3° 18 49.7

3.7

17.0

31.0

16 16 44.6

204.2

24.2

16 16 3.46

-2

16 16 1.46

1849. July 29

M. East

 θ' beti

	5	30.4
		44.5
-8°	58	58.5
		12.3
		26.0
		40.0
1	26	53.8
		265.5
1	26	12.21
		-2.
1	26	10.21

1849. July 30

Ill. East

$$\text{Int. Corr. } \begin{cases} a = +0.40 \\ b = +0.08 \\ c = +0.47 \end{cases}$$

γ Ophiuchi		Moon IV		δ Ophiuchi	
0	46.0	5	18.0	3	25.0
	0.7		33.0		40.0
-15° 32'	15.0	-18° 16'	47.2	-21° 36'	54.6
	29.2		2.0		9.2
	43.5		17.2		24.2
	57.6		32.2		38.8
17 12	12.0	17 36	47.2	17 44	53.3
	204.0		196.8		245.1
			16.8		65.1
17 11	29.14	17 36	2.40	17 44	9.29
	-2		-2		-2
17 11	27.14	17 36	0.40	17 44	7.29

1849. Aug. 1

$$\text{Inst. Corr.} \begin{cases} a = +0.40 \\ b = +0.08 \\ c = +0.47 \end{cases}$$

M. East

α Cor. Bor.	α Serpentis	ζ Uls. Min	β Scorpii	δ Ophiuchi
7 21.2	5 59.0	56 0.0	5 46.9	5 35.3
37.0	12.5	57 6.3	1.4	49.2
+27° 14 52.0	+6° 54 26.4	+78° 16 58 14.6	-19° 23 15.9	-3° 18 3.0
7.5	40.5	59 21.8	30.4	16.9
23.0	54.2	0 29.5	45.0	30.5
38.6	7.8	1 37.4	59.5	44.4
15 38 54.4	15 47 21.7	16 2 44.7	16 7 14.0	16 16 57.7
233.7	222.1	154.3	213.1	237.0
53.7	282.1			117.0
15 38 7.68	15 46 40.30	15 59 22.04	16 6 30.44	16 16 16.71
-2	-2	-2	-2	-2
15 38 5.68	15 46 38.30	15 59 20.04	16 6 28.44	16 16 14.71

1849. Aug. 1

Ill. East

 Inst. Cor. $\begin{cases} a = +0.40 \\ b = +0.08 \\ c = +0.47 \end{cases}$

1849phae.

Moon IV		λ Sagittarii		γ Sagittarii		Unknown 8 ^{mg}		ρ Sagittarii		
9	20.1	7	45.	4	10.0		25.8	21	17.2	
9	35.0		0.0		25.0		40.3	2	3.0	
-18° 39	50.0	-25° 30'	15.2	-22° 55'	40.0	-22° 21'	55.0	-18° 8'	2	32.2
	5.0		30.8		55.0	(no note)	10.5			46.0
	20.0		46.0		9.8		26.5			1.0
	34.8		1.5		24.8		40.3			15.5
19 20	49.8	18 29	16.4	18 55	39.0	18 59	55.0	19 23	30.2	19
	214.7		154.9		203.6		252.4		145.1	
	34.7		214.9		383.6		72.4			
19 20	4.96	18 28	30.70	18 54	54.80	18 59	10.34	19 22	46.44	19
	-2.		-2.		-2				-2	
19 20	2.96	18 28	28.70	18 54	52.80			19 22	44.44	19

1849. Aug 1.

Ill. East

ϵ^2 Sagittarii		
2	3	1.5
0		16.2
2	-16° 28'	30.5
0		44.5
0		69.0
5		13.2
2	19 44	27.0
1		191.9
		311.9
44	19 43	44.56
		-2
44	19 43	42.56

1849. Aug. 2.

M. East.

$$\text{Inst. Corr.} \begin{cases} a = +0.40 \\ b = +0.08 \\ c = +0.47 \end{cases}$$

Moon IV			α^2 Capricor			ρ Capricor		
1	28	50.	8		52.0	9		25.8
		4.8			6.2			40.2
-17°	28'	19.7	-18°	0'	20.3	-18°	19'	54.6
		34.2			35.0			9.0
		49.2			49.2			23.2
		4.1			3.1			37.5
20	13	19.	20	20	17.	20	30	52.2
		181.0			182.8			242.5
		241.0			242.8			62.5
20	12	34.43	20	19	34.69	20	30	8.93
		-2			-2			-2
20	12	32.43	20	19	32.69	20	30	6.93

1849. Aug. 3

M. Ear

$$\text{Inst. Corr.} \begin{cases} a = +0.40 \\ b = +0.08 \\ c = +0.47 \end{cases}$$

α Bootis		γ Aquilae		α Aquilae		β Aquilae		α^2 Capricorn						
7	57.6	8	20.0	2	40.0	7	9.8	20	18	55.3				
	12.0		34.5		54.1		24.0			9.5				
+19° 58'	26.7	+10° 15'	48.3	+8° 29'	8.0	+6° 2'	37.5	-13° 0'		23.7				
	41.3		2.3		22.3		51.2			37.6				
	55.8		16.5		36.2		5.0			52.				
	10.3		30.5		50.0		19.0			6.0				
	25.1	19	49	19	54	19	58	33.0	20	20	20.0			
14	19	228.8	196.1		214.6		17.95			204.1				
	288.8		16.1		154.6		135.95			264.1				
	41.26		2.30		22.09		51.36			37.73				
	-2.		-2.		-2		-2			-2.				
14	19	39.26	19	49	0.30	19	54	20.09	19	57	49.36	20	19	85.73

1849. Aug. 3

M. East

 Inst. Cen. $\begin{cases} a = +0.40 \\ b = +0.08 \\ c = +0.47 \end{cases}$

Capricorn		Moon TO		Moon II O		*Unk. 7-8 mag		*Unk. 7 mag	
9	28.7	4	7.7	6	17.2	8	48.5	1	42.3 13.8
	43.2		22.2		32.0		3.1		42.5 28.2
-18° 19'	57.2	-15° 24'	36.8	-15° 24'	46.6	-15° 24'	17.2	-15° 28'	42.2 42.2
	11.3		51.3		1.2		31.7		42.2 56.4
	26.3		6.2		15.8		46.0		41.7 10.2
	40.2		21.0		30.3		0.5	21	12 42.2 28.0
20 30	55.	21 5	35.5	21 7	45.0	21 10	14.6		
	261.9		180.7		188.1		161.6		
	81.9		360.7		08.1		221.6		
	11.70		57.53	21 7	1.16	21 9	31.66	21 11	42.18
	-2.		-2				-2		-2
20 30	9.7 0	21 4	49.53			21 9	29.66	21 11	40.18

first wife lost

* Near the parallel * 4' South
of Moon's centre

Aug 3. 1849

M. East

 α Capricorn γ Capricorn

3	3	4.3	0	57.0
2		18.6		11.2
2	-17° 28'	33.0	-17° 20'	28.7
4		47.4		40.4
2		1.7		55.0
0		16.2		9.
21	24	30.5	21	42
		151.7		221.3
		331.7		281.3
8		47.39		40.19
		-2.		-2
8	21	23	45.39	21
			41	38.19

1849. Aug. 5

$$\begin{cases} a = +0.40 \\ b = +0.09 \\ c = +0.47 \end{cases}$$

M. East

Cor. Bor.

6		32.0
		47.4
+27° 14		3.0
		17.8
		34.0
		49.5
		5.0
15	38	188.7
		18.4
		-2
15	37	16.4

1849. Aug. 8

M. Ear

$$\text{Inst. Cor.} \begin{cases} a = +0.38 \\ b = +0.09 \\ c = +0.06 \end{cases}$$

β Orionis		β Tauri		δ Orionis		ϵ Orionis		Polaris S.P.		
6	56.0	6	19.6	3	57.5	8	12.9	12	39	34.0
	9.7		35.2		11.2		26.3		5	
+8° 28'	23.8	+28° 28'	51.0	-0° 25'	25.0	-1° 18'	40.5	88° 30' 59"	57	8.8
	37.8		6.4		39.0		54.0		5	57.0
	51.8		22.0		52.5		7.8		14	46.0
	5.5		37.7		6.0		21.3			
5 8	19.3	5 17	53.5	5 25	19.8	5 29	35.4		32	9.5
	203.9		225.4		211.0		198.2			
	37.70		6.49		38.71		54.03	13	5	55.36
	-2		-2		-2		-2			-2
5 8	35.70	5 17	4.49	5 24	36.71	5 28	52.03	13	5	53.36

26 21.5 55.5

8 45.0 53.8

-0 1.7 58.3

8 46.2 59.8

26 16.6 52.4

1849. Aug. 8.

$a = +0.38$

$b = +0.09$

$c = +0.06$

M. East

 α Virginis η Bootis

13	17	36.9	9.0	13	47	52.123.0
-10	22	37.023.0		+19	9	52.437.8
		37.1	37.0			52.352.2
		37.051.0				52.06.5
		37.1	3.0			52.221.2

13	17	37.02		13	47	52.20
		-2				-2
13	17	35.02		13	47	50.20

1849. Aug 9.

$a = +0.37$

$b = +0.09$

$c = +0.07$

Ill. East

Polaris S.P.	α Virginis	Red. Polaris
12 39 36.2	—	+26 21.6 57.8
13 17 40.6 12.7	—	—
88° 30' 6.157 15.8	-10° 22' 40.8 26.8	+8 45.1 60.9
6 0.5	40.1 40.0	+0 1.7 58.8
14 46.3	40.0 54.0	-8 46.3 60.0
23 29.7	40.4 8.3	-17 31.6 58.1
32 12.2	—	-26 16.8 55.4

13 5 56.50 13	17 40.38
-2	-2
13 5 56.50 13	17 38.38

1849. Aug. 13

$$a = +0.38$$

$$b = +0.10$$

$$c = +0.12$$

Ill. East

Polaris S.P.		S Ophiuchi		α Scorpii	
_____		6	28.0	0	6.8
88° 30' 7"	_____		41.5		21.7
12 57 32.33.00	-3° 18'		55.4	-26° 5'	37.5
_____			9.2		52.3
15 33.7 4.00			23.0		7.3
_____			36.7		23.0
_____	16	7	50.5	16	21
			244.3		187.0
12 57 33.00			9.19		52.43
-2			-2		-2
12 57 31.00	16	7	7.19	16	21
					50.43

1849. Aug 14

Ill. East

$a = +0.37$

$b = +0.10$

$c = +0.13$

γ' Eridani		α Tauri		α Aurigae		β Tauri		δ Orionis	
1	4.9	27	21.0	5	22.6	16	47.	4	24.0
	19.2		35.8		42.0		2.5		38.3
-13° 56'	33.3	+16° 12'	50.0	+45° 50'	2.0	+28° 28'	18.0	-0° 25'	52.2
	47.5		4.2		21.4		33.5		5.8
	1.4		18.3		41.2		49.3		19.2
	15.8		32.7		0.6		5.0		33.2
3 52	30.0	4 28	47.45	7	20.4	5 18	20.4	5 25	47.3
	152.1		209.4		150.2		175.7		220.0
	47.46		4.20		21.46		33.67		5.71
	-2		-2		-2		-2		-2
3 51	45.46	4 28	2.205	6	19.46	5 17	31.67	5 25	3.71

1849. Aug 14

$$a = +0.37$$

$$b = +0.10$$

$$c = +0.13$$

Ill. East

ϵ Orionis		α Orionis	
8	40.3	7	6.4
	54.0		20.2
-1° 18	7.5	+7° 22	34.2
	21.0		48.0
	35.0		1.8
	49.0		16.0
5 30	3.0	5 48	29.7
	209.8		156.3
	21.40		48.04
	-2		-2
5 29	19.40	5 47	46.04

1849. Aug. 15

$a = +0.37$

$b = +0.11$

$c = +0.14$

M. Ear.

δ Orioni		ϵ Orioni	
4	29.0	8	44.3
	42.5		57.8
-0° 25'	56.2	-1° 18'	11.2
	10.0		25.2
	23.2		39.0
	37.0		53.0
5 25'	51.0	5 30'	6.7
	248.9		23.72
	9.84		25.41
	-2		-2
5 25'	7.845	5 29'	23.41

