

KG
11365
82

B. 11

No. 11

*Reduction of Transits
Feb. 25. 1852 to July 6. 1852*

Sold by T. Groom & Co., Stationers, India Building, 82 State St., Boston.

KG 11365.8.2



KG 11365.82



1852. Feb. 25

C. W. 7.

Mt. East

$a = -0.31$

$b = -0.08$

$c = -0.17$

S. W. 7.

Moon TV		Celi		Puri		Tami		Eridani	
	44.5		4.3		56.0		9.5		38.1
	58.9		18.0		17.1		24.4		52.4
	13.0		31.9		38.0		39.3		6.6
	27.3		45.5		59.1		54.5		20.7
	41.5		59.4		20.3		9.4		34.9
	55.8		13.1	3	41.5		24.5		49.0
2	37	2	55	27.0	3	39	39.4	3	52
	251.0		199.2		234.6		201.0		204.7
	191.8		319.2		414.6		381.0		
	27.28		45.60		59.23		54.43		20.67
	-2		-2		-2		-2		-2
2	36	2	54	43.60	3	38	52.43	3	51
				13	57.23	3			18.67

1852 Feb. 25/26

1852 Feb. 25/26

W. East

C. N. S.

Lyrae

14.5

32.0

49.4

7.2

24.9

42.5

18 33 0.0

170.5

50.5

7.21

-2

18 32 5.21

Feb. ²⁶/₂₇ 1852.

$a = -0.31$

$b = -0.08$

$c = -0.17$

Ill. East

C. W. J.

 α Lyrae

55.612.9

+38° 39' 5.630.4

5.648.0

—

5.423.0

5.440.5

18 32 5.758.5

213.3

5.55-

-2

18 32 3.55-

1852. Feb. 27

$a = -0.31$

$b = -0.07$

$c = -0.17$

Hel. East

C. W. 7.			Moon TV			2 Tauri			α Tauri			α Ceti		
λ Tauri														
		56.4			1.3			24.8			52.5			39.4
		10.4			16.0			39.0			6.8			52.9
		24.3			30.8			53.8			21.0			6.8
		38.2			45.5			8.0			35.3			20.6
		52.4			0.1			22.5			49.7			34.3
		6.5			14.8			37.3			4.0			48.1
3	53	20.5	4	15	29.5	4	20	51.8	4	28	18.0	2	55	1.9
		208.7			138.0			237.2			187.3			203.0
		268.7			318.0			57.2			247.3			144.0
		38.39			45.43			8.17			35.33			20.43
		-2			-2			-2			-2			-0
3	52	36.39	4	14	43.43	4	20	6.17	4	27	33.33	2	54	20.43

852. Feb. 27

$a = -0.31$

$b = -0.07$

$c = -0.17$

J. L. Grant

C. M. 7.

Parsi

31.0

52.1

13.1

34.3

55.0

16.3

37.5

239.3

34.19

0

34.19

1852. Mar. 2

$$a = -0.30$$

$$b = -0.06$$

$$C = -0,15$$

4 Ill. East

C. N. S.

C. W. S.		"		"		"		"						
51 Geminor		♂ Geminor		♂ Geminor		♂ Canis Min.		♂ Geminor						
	51.5		14.7		2.4		34.6		10.9					
	5.7		29.2		18.9		48.3		26.4					
	20.1		44.2		34.0		2.1		42.0					
	34.9		59.0		51.3		15.8		57.5					
	48.8		14.0		7.5		29.7		13.0					
	3.3		29.0		24.0		43.4		29.0					
7	5	17.6	7	11	43.8	7	25	40.2	7	31	57.5	7	36	44.5
	181.9		233.9		178.3		231.4		223.3					
	241.9		413.9		358.3		111.4		403.3					
	34.56		59.12		51.19		15.91		57.61					
	34.94		0		0		0		0					
	0.56													
7	4	34.94	7	10	59.13	7	24	51.19	7	31	15.91	7	35	57.61

1852 March. 2

$$a = -0.30$$

$$b = -0.06$$

$$c = -0.15$$

Ill. East

C. M. 7.

Moon TV		δ Cancri		ϵ Hydrae		α Cancri	
	24.5		15.4		57.4		24.1
	39.4		29.7		11.4		38.3
	54.5		44.4		25.2		52.0
	9.9		58.8		39.2		6.2
	25.4		13.3		53.0		20.5
	40.0		27.9		6.8		34.6
8	7	55.2	8 36 42.3	8 39 20.7	8 50 48.5		
	248.9		231.8		213.7		224.8 ²
	68.9		411.8		273.7		44.2
	9.89		58.83		39.10		6.32
	-2		0		-0		-0
8	7	7.84	8 35 58.83	8 38 39.10	8 49 6.32		

1852 Mar. 2/3

C. N. 7.

H. E. ant

α Aquilae	α Cygni		
-		21.5	
+8° 29 30.8 3.0		40.5	
30.7 16.8		0.5	
30.7 30.7		19.5	
30.6 44.5		39.0	
30.7 58.4		58.5	
19 44 30.6 12.3 20	37	18.0	
		197.5	
30.68		19.64	
-2		-2	
19 43 28.68 20	36	17.64	

852, March 3

$$a = -0.30$$

$$b = -0.06$$

$$c = +0.14$$

Alt. East

C. M. 7.

Hydrae

12.0

25.8

39.5

53.5

7.6

21.0

8 39 35.0

194.4

53.48

-2

8 38 51.48

March 3/4 1852.

$a = -0.31$

$b = -0.06$

$c = -0.14$

Alt. East

G. M. 7.

 α Aquilae α Cygni

46.4

18.9

0.0

38.0

14.0

57.4

27.9

17.0

41.6

36.0

55.5

55.4

19 44

9.4

20

37

15.0

194.8

237.7

27.83

16.81

-2

-2

19 43

25.83

20

36

14.81

1852 March. 9

$$a = -0.29$$

$$b = -0.04$$

$$c = -0.11$$

Ill. East

C. W. 7.

Canis. Maj

 δ Geminor α^2 Geminor β Geminor

38.0

15.8

—

12.0

52.3

30.5

+32° 12

—

27.4

6.5

45.5

52.3 36.0

43.0

21.0

0.2

52.5 52.4

58.5

35.0

15.0

52.3 8.5

14.5

49.5

30.0

—

30.0

6 39

4.0

11

44.8

—

7

36

45.5

206.3

181.8

230.9

20.90

0.26

52.37

58.70

-2

2

-2

-2

6 38

18.90

10

58.26

50.37

7

35

56.70

1852, March. 10

$a = -0.29$

$b = -0.04$

$c = -0.11$

M. East

C. N. 7

S. Geminor

α² Geminor

					2.5
+22	158.729.0				18.5
	58.43.9				34.6
	58.58.5	2			51.0
	58.713.5				7.0
	58.728.3				23.3
7	11 58.943.5	7	25		39.5
					176.4
	58.72				50.91
	-2				-2
7	10 56.72	7	24		48.91

March. 19/11

$a = -0.29$

$b = -0.04$

$c = -0.10$

Ill. East

C. W. T.

Leygni

4.0

23.0

42.4

1.8

21.0

40.4

20 36 59.8

192.4

1.77

-2

20 35 59.77

1852. March 15

$a = -0.28$

$b = -0.04$

$c = -0.06$ All East

O. M. 7.

 α Canis Maj. β Geminor

59.5

+5 364637.0

14.9

4851.0

30.5

444.4

46.4

4218.0

2.0

4331.9

17.4

7 31 4345.8

7

36

38.0

203.7

4.43

46.24

-2

-2

7 31 2.43

7

35

44.24

March '51

$a = -0.28$

$b = -0.04$

$c = -0.08$

Ill. East

C. M. T.

"

 β Aquarii

32.3

+44° 45'

46.1

51.2 31.8

0.0

51.1 51.0

13.8

51.0 10.3

27.6

51.1 29.7

41.4

20 36 51.3 49.4 21 23 55.1

21 6.3

51.14

13.76

0

• •

20 35 51.14 21 23 13.76

1852. March. 1st/19

$a = -0.28$

$b = -0.03$

$c = -0.07$

Ill. E ant

C. W. 7.

 α Cygni

48.9

8.0

24.4

44.0

3.0

22.5

20 36 41.8

186.6

43.80

-2

20 35 41.80

1852. 19/20

$$a = -0.28$$

$$b = -0.03$$

$$c = -0.07$$

All East

C. W. T.

 α Cygni

42.8

2.0

21.5

41.0

0.3

19.4

20 36 38.9

165.9

40.84

-2

20 35 38.84

1852. March 22

$$a = -0.27$$

$$b = -0.03$$

$$c = -0.05$$

East

All. Mont

C. W. T.

v. Anizae

56.3

15.9

85.5

55.4

15.0

34.9

54.1

267.5

58.36

-2

5 4 53.36

852. March 25

$a = -0.27$

$b = -0.02$

$c = -0.04$

C. W. T.

Ill. East

Moon T D			γ Tami			α Tami			α Aurigae			β Orionis		
		4.2			0.4			3.4			6.9			~~18.5~~
		19.0			14.3			17.8			26.7	-8° 23	46.3	18.5
		33.5			28.8			32.1			46.5		46.5	32.7
		48.2			43.0			46.4			6.0		46.2	46.2
		2.9			57.3			0.8			25.9		46.3	0.2
		17.6			11.3			15.0			45.2		46.4	14.1
3	56	32.3	4	11	25.6	4	27	29.4	5	6	5.5	5	7	46.328.0
		137.7			180.7			144.9			162.7			
		387.7			300.7			324.9			42.7			
		48.25			42.96			46.41			6.10			46.33
		-0			0			-0			-0			0
3	55	48.25	4	10	42.96	4	26	46.41	5	5	6.10	5	6	46.33

1852. March, 25

• Ill. East

G. W. 7.

 β Tauri

30.0

45.8

1.3

17.0

32.6

48.4

3.9

179.0

119.0

17.00

-0

5 16 17.00

852, March 26

$a = -0.27$

$b = -0.02$

$c = -0.04$

O. N. T.

Ill. East

Tauri		α Tauri		Moon TO		α Aurigae		β Orionis	
	59.3		2.4		47.1		4.8 5.8		—
	13.4		16.8		2.3	+45° 50'	4.8 25.4	-8° 23'	—
	27.7		31.0		17.1		5.1 45.4	45.1	31.2
	41.9		45.3		32.1		5.1 5.0	45.1	45.1
	56.6		59.6		47.2		5.3 25.0	45.1	59.0
	10.2		14.0		1.8	5	5 4.8 44.2	45.2	12.9
4	11	4	27	4	48		—	5	7 45.3 27.0
	233.2		197.5		164.6				
	293.2		317.5		224.6				
	41.88		45.36		32.09		4.98		45.16
	0		0		0		0		0
4	10	4	26	4	47	5	5 4.98	5	6 45.16

1852, March 26

H. Eart

C. W. 7.

 β Tauri δ Orionis ϵ Orionis

29.0

20.8

44.5 - 0 25 46.4 18.9

34.4

0.2

46.6 32.8

48.2

15.8

46.3 46.3

2.0

31.4

46.5 0.2

15.6

46.9

46.5 13.9

29.3

5 17

2.8

5

24 46.5 27.8

5

28

43.2

170.6

193.5

110.6

13.5

15.80

46.47

1.93

-0

-2

5 16

15.80

5

27

59.93

March 28/29

 $a = -0.26$
 $b = -0.05$
 $c = -0.10$

Ill. East

C. H. T.

α Cygni

+44° 45'

16.9 16.8

16.7 36.0

16.8 55.4

20 36 16.9 15.0

16.82

-2

20 35 14.82

1852. March $\frac{3}{32}$.

$$a = -0.24$$

$$b = -0.08$$

$$c = -0.17$$

Ill. E. air

C. N. 7

Cygni

11.4

30.8

50.0

9.4

28.8

48.0

20 36 7.4

188.8

9.40

-2

20 36 7.40

1852. Apr. 1.

$$a = -0.24$$

$$b = -0.08$$

$$c = -0.17$$

interchanged

Ill. East

"

"

C. W. T.

y Leonis

Moon 10

x Leonis

S Leonis

S Hyd. Crat.

51.0

40.4

27.9

1.0

16.5

6.0

54.5

41.8

15.0

31.0

20.5

9.0

55.5

29.0

45.8

35.0

23.4

9.5

43.3

0.5

49.5

38.0

23.2

57.5

15.0

4.5

52.5

37.0

11.5

30.0

10 11

19.0

10

40

7.0

10

56

51.0

11

11

25.8

11

5

45.0

11

185.5

224.8

245.9

183.1

183.8

245.5

164.8

65.9

303.1

03.8

35.07

23.54

9.41

43.30

0.54

-2

-2

-2

-2

-2

10 10

33.07

10

39

21.54

10

56

7.41

11

10

41.30

11

4

58.54

11

1852, Apr. 1

C. N. J.

All. East

2 Leonis

17.0

31.0

45.0

59.0

13.1

27.0

11 15 41.3

233.4

413.4

59.06

-2

11 14 57.06

1852, Apr. 1/2

$a = -0.24$

$b = -0.08$

$c = -0.17$

All East

C. W. 7.

Cygni

9.0

28.2

47.5

6.9

26.3

45.5

20 36 4.8

168.2

6.89

-2

20 35 4.89

1852. Apr. 23

$a = -0.24$

$b = -0.08$

$c = -0.17$

H. E. dit

C. W. 7.

 δ Lygni β Aquarii

45.4

+29° 37' —

59.4

13.3

19.8 19.7

27.0

19.2 35.0

40.8

19.2 50.8

54.6

21 6 19.5 7.0 21 23 8.4

248.9

19.42

26.98

-2

-2

21 5 17.42 21 22 24.98

1852. Apr. 7

$$a = -0.23$$

$$b = -0.09$$

$$c = -0.18$$

M. East

C. W. J.

 β Draconis ϵ Orionis

9.0

22.9

36.8

50.7

0.44

18.4

32.5

174.7

50.67

0

50.67

-1° 18'

12.8 59.0

12.9 12.9

12.8 26.5

12.8 40.3

5 27 12.7 54.0

12.8 0

0

5 27 12.8 0

1852 Apr. 9/10

$a = -0.23$

$b = -0.09$

$c = -0.18$

Apr. 10.

Ill. East-

C. M. 7.

5 Cygni

 α Tauri

				6.5	
+29	37			20.8	
				35.0	
21	5	3.0		49.4	
				3.7	
				18.0	
			4	32.3	
				165.7	
		3.10		49.39	
		-2		-2	
21	5	1.10	4	25	47.39

1852, Apr. 13

$a = -0.23$

$b = -0.10$

$c = -0.19$

Ill. East

C. W. T.

 α Hydrae α Leonis

55.4

5.0

9.0

19.0

23.0

33.1

36.5

47.0

50.5

1.0

4.3

15.0

9

19

18.4 9

59

29.3

197.1

149.4

36.73

47.06

-2

-2

9

18

34.73 9

58

45.06

1852 Apr. 13/14

$a = -0.23$

$b = -0.10$

$c = -0.19$

Ill. East

C. M. V.

 α Andromeda

11.9

27.5

43.0

58.5

14.0

29.8

23 59 45.4

230.1

58.58

-2

23 58 56.58

1852, Apr. 16

$a = -0.22$

$b = -0.10$

$c = -0.20$

C. W. 7.

All. Enit.

 α Canis Min β Geminor

12 Can. Ven.

1.0

18.0

28.4

42.5

56.4

10.0

24.0

177.7

42.53

-2

40.53

+28°

23

24.2

24.1

24.5

24.4

24.2

35

181.3

24.30

-2

22.30

+39°

7

7

7

7

7

7

7

7

7

7

16.1

15.8

15.5

48

13.90

15.90

-2

13.90

1852, Apr. 16/17

$\cdot a = -0.22 \cdot$

$b = -0.10$

$c = -0.20$

G. M. T.

Ill. East

α Aquarii	α Hydree	12 Can. Ven.		
36.5	44.0	19.5		
50.4	57.5	37.5		
3.9	11.5	55.4		
18.0	25.4	13.0		
31.6	39.3	30.4		
45.4	53.0	48.5		
21 57 59.0 9	19 7.0 12	48 6.0		
244.8	237.7	209.3		
17.83	25.38	12.76		
-2	-2	-2		
21 57 15.83 9	18 23.38 12	47 10.76		

1852. Apr. 22

$a = -0.22$

$b = -0.11$

$c = -0.20$

J. L. East

C. N. 7.

 α Leonis

41.0

55.0

8.9

23.0

37.0

51.2

59 8.4

221.5

23.07

-2

58 21.07

1852, Apr. 24.

$a = -0.21$

$b = -0.12$

$c = -0.21$

Ill. Part

C. W. D.

5 Hydrae

4.0

17.9

31.5

43.4

59.3

13.0

8 37 27.0

198.1

45.44

-2

8 36 47.44

852, Apr. 27

C. 12. 7.

Orionis

α seminov

All East

$$a = -0.21$$
$$b = -0.11$$
$$C = -0.21$$

+7 22

51.4 47.5

51.4 51.4

51.4 5.3

51.4 19.4

5 48-51.4 33.0

+32 1251.018.5

50.834.5

51.151.0

51.3 7.5

1

—

51.40

51.05

- 2

- 2

5- 44 49.40

49.05

1852. Apr. 27.

$a = -0.21$

$b = -0.11$

$c = -0.21$

Ill. East

C. W. T.			"			"			"			"		
S. Canai			ε Hydrae			α Cancri			Moon TD			ε Hydrae		
		41.5			23.5			50.2			57.8			46.5
		55.9			37.2			4.1			6.8			0.3
		10.4			51.1			18.1			21.7			14.2
		25.0			5.0			32.2			36.3			27.9
		39.4			18.9			46.5			51.3			41.9
		54.0			32.6			0.4			6.2			55.8
8	37	8.6	8	39	46.6	8	51	14.7	9	17	21.0	9	21	9.8
		234.8			214.9			166.2			195.1			196.4
		174.8			34.9 ⁸⁶			226.2			255.1			
		24.9 ⁸			4.9 ⁸			32.2 ³¹			36.44			28.06
		-0			-0 ⁸⁶			-0 ³¹			-0			-0
8	36	24.9 ⁸	8	39	4.9 ⁸	8	50	32.2 ³¹	9	16	36.44	9	20	28.06

1852. Apr. 27

$a = -0.21$

$b = -0.11$

$c = -0.21$

Ill. East

C. N. 7.

Leonis

✓ Leonis

γ Leonis

α Leonis

50.4

42.3

42.0

5.6

56.6

56.1 +12° 41'

20.8

10.6

10.9

35.8

24.6

25.0

38.8 38.8

50.9

39.2

39.4

38.9 53.0

5.9

53.2

54.1

38.9 7.0

9

38

21.0

9

51

7.4

10

0

8.4

1

39.0 21.3

190.4

233.9

235.9

250.4

173.9

175.9

35.77

24.84

25.13

38.90

-0

-0

-0

-2

9

37

35.77

9

50

24.84

9

59

25.13

10

0

36.92

1882 Apr. 27/28

$a = -0.21$

$b = -0.17$

$c = -0.21$

ell. East

C. W. 7

 γ Pegani

3.1

17.1

31.0

45.4

59.5

13.7

0 6 28.1

197.9

45.41

-0

0 5 45.41

852. Apr. 28

$a = -0.20$

$b = -0.11$

$c = -0.21$

Ill. East

C. W. 7.

Leonis

 ν Leonis α Leonis η Leonis γ Leonis

17.9

8.6

22.8

8.3

40.4

32.0

22.8

36.9

22.5

55.1

46.9

36.8

50.9

37.0

9.8

2.1

51.0

5.0

51.6

24.4

17.2

5.1

19.1

6.0

39.0

32.1

19.2

33.1

20.2

53.8

9 36 47.5 9 49 33.2 9 59 47.5 9 58 34.7 10 11 8.6 10

195.7

176.7

215.3

180.3

23 1.1

15.7

356.7

35.3

360.3

171.1

2.24

50.96

5.04

51.47

24.44

-0

-0

-0

-0

-0

9 36 2.24 9 48 50.96 9 59 5.04 9 57 51.47 10 10 24.44 10

1852 Apr. 28

Ill. East

C. W. T.		p Leonis	
Moon TO			
	33.1		55.1
	47.9		9.2
	22.3		23.0
	16.8		36.9
	31.4		50.9
	46.4		4.8
10	14	1.0	10 24 19.0
	178.9		198.9
	118.9		258.9
	16.99		36.99
	-0		-0
10	13	16.99	10 23 36.99

1852 Apr. 28/29

$$a = -0.20$$

$$b = -0.11$$

$$c = -0.21$$

Ill. East

C. W. 7.

Andromedae

γ Pegasi

32.4

29.1

48.0

43.5

3.4

57.0

19.1

11.5

34.9

25.6

50.4

39.8

6.2 0

4

54.3

194.4

260.8

19.20

11.54

-0

-0

23 59 19.200

4

11.54

1852. Apr. 30

$a = -0.18$

$b = -0.11$

$c = -0.20$

C.N. 7.

Ill. East.

1852phae:

C. W. 7.		S Leonis		S Hydrae Cr.		2 Leonis		S Virginis		S Leonis				
	6.0		30.4		6.4		34.0		23.9					
	20.3		4.5		20.4		47.5		38.0					
	35.0		18.5		34.5		1.5		52.3					
	50.0		32.8		48.5		15.5		6.5					
	4.4		47.0		2.5		29.4		21.0					
	19.5		1.0		16.5		43.5		35.0					
11	4	34.3	11	10	15.2	11	14	30.4	11	35	57.4	11	39	49.4
	169.5		169.4		159.2		228.8		226.1					
	349.5		229.4		339.2		108.8		46.1					
	49.93		32.77		48.46		15.54		6.58					
	-2		-2		-2		-2		-2					
11	3	47.93	11	9	30.77	11	13	46.46	11	35	13.54	11	39	4.58

1852. Apr. 30

$a = -0.18$

$b = -0.11$

$c = -0.20$

C. W. 7.

Hel. East

Moon 10

 γ Virgini β Corvi

12 Can. Ven.

10.5

15.0

29.0

24.8

29.0

44.0 + 39° 7 42.4 7.0

39.0

42.7

58.5

42.2 24.5

53.0

56.5

13.5

42.6 42.5

7.0

10.4

28.5

42.3 0.0

21.3

24.2

43.5

42.0 17.4

12 7 35.4 12 10 38.0 12 24 58.4 12 47 42.6 35.8

191.0

215.8

275.4

371.0

395.8

95.4

53.00

56.54

13.63

42.35

-2

-2

-2

-2

17 6 53.00 12 9 54.54 12 24 11.63 12 47 40.35

1852 Apr. 29

$a = -0.19$

$b = -0.11$

$c = -0.20$

C. W. Y.

Alt. East

α Leonis	μ Leonis	σ Leonis	Moon TO	γ Leonis
22.9	55.2	6.0	5.3	—
37.2	9.1	21.0	19.2	+11 2149.0 21.0
51.2	23.3	35.6	33.8	49.0 35.0
5.3	37.0	50.6	48.0	49.0 49.0
19.5	51.2	5.1	2.5	49.0 3.0
33.6	5.0	19.8	16.7	48.9 16.8
9 59 47.5 10 24 19.2 11 5 34.7 11 11 31.3 11 15 48.9 31.0				
217.2	200.0	172.8	156.8	
37.2	260.0	352.8	336.8	
5.32	37.14	50.40	48.11	48.97
0	-0	-0	0	0
9 59 5.32 10 23 37.14 11 4 50.40 11 10 48.11 11 14 48.97				

1852. Apr. 29.

$a = -0.19$

$b = -0.11$

$c = -0.20$

Ill. East

C. W. 7.

 β Leonis

24.2

38.5

52.8

6.9

21.2

35.5

11 40 49.6

228.9

48.9

06.98

-0

11 40 6.98

1852. Apr. 29/30

$a = -0.19$

$b = -0.11$

$c = -0.20$

Ill. East

C.N.7.

 α Pegasi α Cassiopeae

16.0

29.2

30.2

53.1

44.3

17.9

58.5

42.2

12.8

6.8

26.8

31.0

22 56

41.0 0

31

55.5

229.6

235.7

58.51

42.24

0

0

22 55

58.51 0

30

42.24

1852 May $\frac{2}{3}$

$$a = -0.17$$

$$b = -0.10$$

$$c = -0.20$$

Ill. Part

O. W. 7.

"

 α Pegasi α Andromedae

11.0 27.5

25.0 43.0

39.1 58.9

53.3 14.1

7.5 30.0

21.7 45.4

22 55 36.0 23 59 1.3

193.6 220.2

53.37 14.31

-2 -2

22 54 51.37 23 58 12.31

1852. May 3

$a = -0.17$

$b = -0.10$

$c = -0.20$

Ill. Part-

C. M. 7.
 β Leonis β Leonis

59.5

17.8

14.5

32.0

29.2

46.0

43.5

0.3

58.5

14.5

13.5

29.0

11 4

28.0

11

39

43.4

246.7

183.0

43.81

0.43

-2

-2

11 3

41.81

11

38

58.43

1852. May. $\frac{3}{4}$

$$\begin{aligned}
 a &= -0.17 \\
 b &= -0.10 \\
 c &= -0.20
 \end{aligned}$$

Ill. East

C. W. T.

α Aquarii

57.3

11.0

24.5

38.4

62.1

6.0

21 56 19.8

209.1

38.44

-2

21 55 36.44

1852. May. 4

$a = -0.16$

$b = -0.09$

$c = -0.20$

Ill. East

C. W. 7.

2 Canis Maj

" β Gemini

27.5 54.5

43.4 10.0

59.0 25.8

14.5 41.3

30.4 57.0

46.1 12.5

6 51 2.0 7 34 28.3

222.9 229.4

14.70 41.34

-2 -2

6 50 12.70 7 33 39.34

1852, May 4/5

Vll. Post

$a = -.16$

$b = -.09$

$c = -.20$

C. N. 7,

Pegasi

Andromedae

15.8

32.1

29.9

47.9

44.0

3.4

58.2

19.0

12.3

34.7

26.4

50.2

22 56 40.8 0 0 5.9

227.4

193.2

58.20

19.03

0

0

22 55 58.20 23 59 19.03

1852 May 5/6

$a = -0.16$

$b = -0.09$

$c = -0.20$

ell. East

G.M.7

 α Pegasi α Andromedae

15.9

32.0

29.6

47.4

43.7

3.1

57.7

18.4

12.1

34.0

26.0

49.8

22 56 40.3 0 0

5.3

225.5

190.0

57.93

18.57

0

0

22 55 57.93 23

59 18.57

1852. May. 10

C. W. T.

J. C. Fair

$a = -0.14$

$b = -0.07$

$c = -0.19$

Hydra

12 Can. Ven.

19.8 26.8

-8° 1 34.0 6.3 +39° 7 19.8 44.4

33.9 20.0

33.9 33.9

19.6 19.5

34.0 47.9

19.8 37.5

33.8 1.5

19.6 55.0

9 18 33.8 15.5 12 47 19.8 13.0

33.9 0

19.73

-2

-2

9 17 31.9 0 12 46 17.73

1852. May 17

$a = -0.10$

$b = -0.05$

$c = -0.19$

Ill. East

e. n. 7.

 α Tauri

42.0

56.0

10.5

24.5

39.0

53.4

4 25

7.5

232.9

24.70

-2

4 24 22.70

1852. May. 7/18

$$a = -0.10$$

$$b = -0.05$$

$$c = -0.19$$

Ill. Part

C. W. 7.

Pegasi

39.4

53.3

7.4

21.5

35.9

50.0

22 55 4.3

211.8

21.68

-2

22 54 19.68

1852. May 18.

$a = -0.10$

$b = -0.05$

$c = -0.19$

Hel. East

C. W. 7.

 α Hydreae ϵ Leonis α Leonis

34.4

38.4

44.0

48.3

53.5

58.3

2.0

8.5

12.0

16.0

23.5

26.3

29.8

38.8

40.4

43.5

54.0

54.5

9 22 57.5 9 40 9.0 10 3 8.5

231.5

225.7

244.0

15.93

23.67

26.28

-2

-2

-2

9 22 13.93 9 39 21.67 10 2 24.28

1852. May. 19.

$$a = -0.09$$

$$b = -0.04$$

$$c = -0.18$$

Ill. Part

C. W. 7.

"

"

 α Hydrae ϵ Leonis α Leonis

31.8

35.9

41.5

48.5

51.0

55.5

59.5

6.0

9.8

13.2

21.0

23.8

27.3

36.3

37.9

41.1

51.0

52.0

9 22 55.0 9 40 6.3 10 3 6.0

273.4

207.5

226.5

13.34

21.07

23.78

-2

-2

-2

9 22 11.34 9 39 19.07 10 2 21.78

1852. May $\frac{19}{20}$

$a = -0.09$

$b = -0.04$

$c = -0.18$

C. W. 7.

Det. East

α Andromedae

γ Pegasi

50.5

47.0

6.3

1.0

21.5

15.4

37.3

29.5

53.0

43.9

8.5

58.1

0 3 24.0 0 8

12.4

201.1

207.3

37.30

29.61

-2

-2

0 2 35.30 0

7 27.61

1852. May. 20

$$a = + 0.09$$

$$b = - 0.04$$

$$c = - 0.19$$

Ill. 8 ant

Q. N. 7.

Hydrae

29.3

43.0

56.8

10.5

24.5

38.4

52.4

254.9

10.70

2

8.70

1852, May. 22

$a = -0.09$

$b = -0.04$

$c = -0.19$

C. N. 7.

Ill. Ear

 α Leonis

+12 41 —

16.6 2.5

• 16.5 16.5

16.3 30.4

16.6 44.7

10 2 16.759.0

16.54

-2

10 2 14.54

1852. May. 24

$a = -0.08$

$b = -0.03$

$c = -0.19$

Ill. East

C. W. 7.

 α Hydrae α Leonis

21.0

30.5

34.8

44.5

48.8

58.5

2.5

12.7

16.5

27.0

30.0

41.0

9 22 44.0 10 2 55.0

197.6

269.2

2.51

12.74

-2

-2

9 22 0.51 10 2 10.74

1852. May. 25-

$a = -0.08$

$b = -0.03$

$c = -0.19$

Old. Earth

C.N. 7		Moon TV		p Leonis	
* Hydraz	ε Leonis				
59.9 13.8	23.5	33.5		28.0	0.3
-8° 1' 60.3 28.0	37.5	48.4		42.0	14.5
9 22 59.8 41.5	52.4	2.9		56.0	28.3
	7.4	17.5		10.1	42.0
	22.5	32.0		24.3	56.0
	37.5	47.0		38.4	10.0
	9 39 52.7	9 58 1.5	10 2 52.5	10 27 24.0	
	233.5	182.8	251.3	175.1	
	53.5	222.8	71.3	295.1	
0.00	7.64	17.54	10.19	42.16	
-2	-2	-2	-2	-2	
9 21 58.00	9 39 5.64	9 57 15.54	10 2 8.19	10 26 40.16	

* Four first wires
lost

1852, May 25

$a = -0.08$

$b = -0.03$

$c = -0.19$

Ill. East

C. W. 7.

S. Leonis

S. Hydrae & Br.

11.0

55.5

25.8

9.8

40.4

24.0

55.4

38.0

10.0

52.3

25.0

6.4

11 8 39.5 11 14 20.5

207.1 206.5

387.1 266.5

55.30 38.07

-2 -2

11 7 53.30 11 13 36.07

1852, May, 26

$a = -0.03$

$b = -0.03$

$c = -0.19$

H. E. arr

C. W. r.		" "		" "		" "		
α Leonis		Moon TO		S Leonis		S Hyd. et br		
	25.8		45.0		8.9		53.4	
	39.8		59.4		23.5		7.5	
	53.9		14.0		38.0		21.5	
	8.0		28.0		53.0		35.8	
	22.0		42.3		8.0		50.0	
	36.0		57.0		22.5		4.0	
10	2	50.0	10 54	11.4	11 8	37.3	11 14	18.4
	235.5		258.1		191.2		190.6	
	55.5		197.1		371.2		250.6	
	7.93		28.0X		53.03		35.80	
	-2		-2		-2		-2	
10	2	5.93	10 53	26.01	11 7	51.03	11 13	33.80

852. May. 28

$a = -0.06$

$b = -0.03$

$c = -0.21$

C. W. 7.

H. W. 1.

Leonis

o Virginis

c Virginis

Moor TO

22.5

33.5

43.5

8.4

36.7

47.4

57.4

22.5

51.0

1.0

11.4

36.5

5.2

15.0

25.0

50.7

19.5

29.0

39.0

4.8

33.8

43.0

52.6

18.9

11 43

48.0

11 59

57.0

12 15

6.5

12 44

33.0

216.7

225.9

235.4

178.8

36.7

105.9

175.4

354.8

5.24

15.13

25.06

50.54

-2

-2

-2

-2

11 43

3.24

11 59

13.13

12 14

23.06

12 43

48.54

1852. May. 28

Ill. East

C. W. T.

 δ Virginis α Virginis

		3.0			18.0
		17.0			31.5
		30.8			45.4
		44.1			59.4
		58.0			13.5
		11.5			27.5
12	50	25.1	13	19	41.5
		189.5			236.8
		309.5			416.8
		44.21			59.54
		-2			-2
12	49	42.21	13	18	57.54

1852. May 30/31

$a = -0.05$

$b = -0.03$

$c = -0.21$

C. W. 7.

Ill. East

Andromeda

 γ Pegasi α Arietis

26.5

23.3

33.5

42.3

37.3

48.5

57.7

51.5

3.0

13.3

5.8

18.0

29.0

20.0

33.0

44.5

34.0

48.0

0.0 0

7

48.4 2

1

3.0

213.3

220.3

187.0

13.33

5.76

18.14

-2

-2

-2

0 2 11.33 0

7

3.76 2

0

16.14

1852 May. 31

$a = -0.05$

$b = -0.03$

$c = -0.21$

H. Carr

C. W. 7.
α Cor. Bor.

25.8

40.4

56.4

12.1

27.7

43.0

15 28 58.4

263.8

11.97

-2

15 28 9.97

1852. June 4

$$a = -0.02$$

$$b = -0.01$$

$$c = -0.20$$

H. E. art

C. N. T.

 β Librae

43.0

57.0

11.0

25.0

38.7

52.5

6.5

233.7

24.81

-2

22.81

1852. June 7⁵

$a = -0.02$

$b = -0.01$

$c = -0.21$

Ill. East

C. W. 7.

 α Cassiopeiæ α Arietis

14.6

24.5

39.0

39.4

3.4

54.4

27.6

9.0

52.2

24.0

16.5

39.0

0 34

41.0

2

0

54.0

194.3

244.3

27.76

9.18

-2

-2

0 33

25.76

2

0

7.18

1852, June 5

$a = -0.02$

$b = -0.01$

$c = -0.20$

C. W. 7.

Ull. East

Leonis

S Leonis

S Hyd. & Crat.

5.4

48.4

33.0

19.5

3.0

47.0

33.5

17.8

1.4

47.4

32.5

15.5

1.4

47.3

29.5

15.8

2.0

43.5

10 2 30.0 11

8

17.0 11

13

58.0

153.0

168.0

227.9

47.57

32.57

15.41

2

-2

-2

10 1 45.57 11

7

30.57 11

13

13.41

1882 June 6/7

$a = -0.01$

$b = -0.01$

$c = -0.20$

All. East

C. W. 7.

 α Andromeda γ Pegasi

13.0

28.4

44.0

59.5

152.0

30.7

237.1

59.58

-2

57.58

+14°

2251.923.5

52.137.9

52.052.0

51.8 6.0

52.020.3

7.51.934.5

0

0

0

6

51.95

-2

49.95

1852 June 9

$a = +0.04$

$b = +0.01$

$c = -0.20$

M. Larr

1852phae. pr

C. W. 7.		S Leonis		S Hyd. et. Crat		P Leonis		γ U. Maj							
—		10.2		54.9		28.6		31.5							
+12 41 —		25.0		9.0		42.7		55.1							
39.5 25.4		39.7		23.0		57.0		18.7							
39.5 39.5		54.5		37.2		11.0		42.5							
39.4 53.5		9.2		51.4		25.5		6.2							
39.8 7.9		23.9		5.6		39.7		29.7							
22	2	39.7	22.0	11	6	38.8	11	12	20.0	11	41	54.0	11	46	53.6
		201.3		201.1		258.5		237.3							
39.58		54.47		37.29		11.21		42.47							
0		-0		-0		-0		-0							
40	1	39.58	11	5	54.47	11	11	37.29	11	41	11.21	11	45	42.47	1

1852. June 9/10

$a = +0.04$

$b = +0.01$

$c = -0.20$

C.W.7

H. E are

 α Aritis α Pucsi δ Leonis δ Hydrae β Leonis

22.8

54.0 9.8

54.4

28.1

+22 46 29.9 0.1

43.8

+21 20

8.7

42.4

29.9 15.0

4.7

54.2 39.4

22.8

56.6

30.0 30.0

25.8

53.9 53.9

37.0

10.8

30.0 44.9

47.0

54.3 9.0

51.2

25.2

29.9 59.7

8.0

54.0 23.5

5.3

39.3

1 59 30.0 14.8 3

14

29.5 11

6

54.0 38.3

11

12

19.5 11

41

53.7

181.6

198.9

256.1

29.95

25.94

54.07

36.97

10.87

0

0

.0

0

0

1 58 29.95 3

13

25.94 11

5

54.07

11

11

36.97 11

41

10.87

1852. June 10/11

$$a = +0.04$$

$$b = +0.01$$

$$c = -0.20$$

Ill. Ear

C. W. 7,

Ain'tis

α Persi

45.3

22.2

0.0

43.3

18.0

4.5

29.7

25.7

44.8

46.8

59.5

7.7

1 59 14.53

14

28.9

208.6

178.9

29.83

25.57

-0

0

1 58 29.83 3

13

25.57

Jan 11. 1852.

$a = +0.04$

$b = +0.01$

$c = -0.20$

C.W. 7.

All. 2 are

 β Leonis δ Hyd. et Crat. β Leonis γ Ues Maj

54.2

28.0

31.4

+21 20 53.8 24.3

8.5

42.3

54.7

53.8 29.0

22.6

56.4

18.0

53.9 53.9

36.6

10.7

41.8

54.0 8.7

50.9

25.0

5.5

53.9 23.4

5.0

39.0

29.2

11 6 53.8 38.1

11 12 19.4

41 53.5 11 46 53.0

197.2

254.9

233.6

53.87

36.74

10.70

41.94

0

-0

0

0

11 5 53.87

11 11 36.74

41 10.70 11 45 41.94

1852. June 11/12

$a = +0.04$

$b = +0.01$

$c = -0.20$

Oth. Fair

C.W.7

 α Arietis α Persei

45.0

22.3

59.9

43.2

14.7

4.4

29.7

25.4

44.6

46.8

59.4

7.9

1 59 14.53 14 28.9

267.8 178.9

29.69 25.56

0

-0

1 58 29.693 13 25.56

1852 June 12

$$a = +0.05$$

$$b = +0.01$$

$$c = -0.20$$

Ill. Part

Q.M. 7.

β Louis

γ The Maj

9.7

54.2

24.4

8.4

39.2

22.7

53.9

36.8

8.6

50.9

23.4

5.0

11 6

38.1

11

12

19.2

197.3

197.2

53.90

36.74

0

-0

11 7

53.90

11

11

36.74

1852. 13/14

$$a = + 0.05$$

$$b = + 0.02$$

$$c = - 0.20$$

Ill. Part

Q.W.7.

 α Arietis α Persei

44.9 0.3

+22° 46' 44.8 15.0 +49° 20' —

45.2 30.3

40.6 19.5

44.9 44.9

40.5 40.4

—

40.7 1.8

44.9 14.6

40.8 22.9

1 59 44.8 29.6 3 14 40.7 44.0

44.92

40.66

-2

-2

1 58 42.92 3 13 38.66

1852. June 15

$a = +0.07$

$b = +0.03$

$c = -0.19$

Ill. Ear

C. N. 7.

 β Leonis

46.3

0.3

14.6

29.0

43.3

57.5

11 43 11.8

202.8

28.97

-2

11 42 26.97

1852. June 16

$$a = + 0.08$$

$$b = + 0.04$$

$$c = - 0.19$$

Ill. Ear

C. W. 7

 β Leonis

44.9

59.0

13.2

27.5

41.7

56.0

11 43 10.3

252.6

27.51

-2

11 42 25.51

1852 June 19.7

$a = +0.08$

$b = +0.04$

$c = -0.19$

H. E. arr

C. W. 7.

a Anis

58.4

13.3

26.2

43.1

58.0

12.8

1 09 27.7

241.5

43.07

0

1 58 43.07

1852. June 18/19

$a = +0.09$

$b = +0.04$

$c = -0.19$

Ill. East

C. W. 7.

Arietis

y Tami

57.6

12.6 +23° 39 33.0 3.0

27.3 33.0 18.0

42.2 33.0 33.0

57.2 33.0 48.0

12.1

1 59 26.9 3 39 33.0 18.0

235.9

42.27

33.00

0

0

1 58 42.27 3 38 33.00

1852 June 19

$$a = +0.09$$

$$b = +0.04$$

$$c = -0.19$$

M. East

C. M. T.

 β Leonis δ Hyd. et Crat. β Leonis

				6.4		40.0
+21	20	6.0	36.5	20.8		54.3
		6.0	51.2	34.7		8.5
		6.0	6.0	48.8		22.8
		6.2	20.9	2.9		87.0
		59	35.4	17.0		51.2
11	7	59	50.2	11	13	31.3
					42	5.5
				161.6		219.3
		6.00		48.80		22.76
		0		-0		0
11	7	6.00	11	12	48.80	11
					41	22.76

June 20/21 1852

$a = + 0.10$

$b = + 0.04$

$c = - 0.19$

H. E. Carr

C. W. T.

"

"

Cassiopeiae

 α Lictis α Persi

45.3

34.1

9.5

+22°

46'

39.8 10.0

55.2

34.0

39.7 24.8

16.3

58.5

39.8 39.8

37.1

22.5

39.6 54.5

58.3

47.0

39.8 9.5

19.1

11.9

39.7 24.5 3

14

41.0

228.7

261.1

58.38

39.73

27.30

-2

0

56.38

39.733

13

27.30

June 21, 1852

$a = + 0.11$

$b = + 0.05$

$c = - 0.19$

Ill. Ear-

C. M. 7.
S Leonis

S Hyd. et Crat.

S Leonis

20.9

39.0

35.6 -13° 59'

53.2

30.2

7.5

5.0

47.8 47.8

21.8

19.8

47.9 2.0

36.0

34.5

47.9 16.2

50.2

11 5

49.2

11

11 47.9 30.4

11

42

4.5

215.3

212.2

5.04

47.88

21.75

11 6

5.04

11

10

47.88

11

41

21.75

June 22/23

$a = + 0.12$

$b = + 0.05$

$c = - 0.19$

Ill. Ear

C. W. 7

 α Auelis α Persi

56.0

33.2

11.0

54.4

26.0

15.5

40.7

36.5

55.4

57.6

10.3

18.8

1 5.9 25.1 3

14

40.0

224.5

256.0

40.64

36.57

1 5.8 40.643

13

36.57

June 23, 1882

$a = +0.13$

$b = +0.05$

$c = -0.19$

C. W. T.

H. E. Carr

α Leonis		δ Hyd. et. Crat.		Moon 10		β Leonis		ϵ Virginis						
	20.2		4.9		24.8		38.6		49.3					
	35.0		18.8		39.0		52.8		3.0					
	49.7		33.1		53.1		6.9		17.0					
	4.4		47.2		7.3		21.2		30.9					
	19.3		1.5		21.7		35.5		44.9					
	34.0		15.5		35.9		49.7		58.8					
11	6	48.8	11	12	29.9	11	30	50.3	11	42	4.0	11	58	17.8
	211.4		150.9		232.1		208.7		216.7					
	31.4		330.9		52.1		148.7							
	4.49		47.27		7.44		21.24		30.96					
11	6	4.49	11	11	47.27	11	30	7.44	11	41	21.24	11	58	30.96

June 23/24 1882.

$a = +0.13$

$b = +0.05$

$c = -0.19$

Ill. East

C. W. 7.

 α Persei

33.5

54.8

15.9

37.0

58.1

18.9

B. H4 40.5

~~35~~ 8.7

36.96

0.

3 13 36.96

June 25/26 1852

$\alpha = +0.13$

$b = +0.06$

$c = -0.18$

H. Carr

June 27/28

$a = +0.13$

$b = +0.06$

$c = -0.18$

C. W. T.

a Pucsi

33.7

54.3

15.6

36.9

57.9

18.9

3 14 40.1

257.4

36.77

0

3 13 36.77

S. P. D.

2 Antis

55.1

10.1

21.1

40.0

54.9

9.9

1 59 24.9

220.0

40.00

0

1 58 40.00

1852, June 29/30

$$a = + 0.13$$

$$b = + 0.07$$

$$c = - 0.17$$

Ill East

S. P. D.

Parsi

31.7

52.4

13.5

34.8

55.9

16.8

38.1

243.2

34.74

0

34.74

July 5, 1852

$a = + 0.13$

$b = + 0.10$

$c = + 0.08$

Ill West

P. B.

12 Con. Venat.

39.8

57.8

15.1

33.0

30.5

8.2

12 50 26.0

230.2

32.91

0

12 49 32.91

