

KG
11365
77

B.6

No. 6.

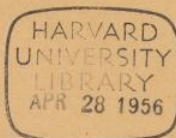
Reduction of Transits
Dec. 30. 1850 to April 5. 1851.

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

KG 11365.77



KG-11365.78



1850. Dec. 30

$a = -0.35$

$b = -0.14$

$c = +0.22$

C. W. 7.

All. West

Andromedae			γ Pegasi			Saturn 1 st Lind			θ' Beti			γ Beti		
		37.6 50.8			47.3			54.0			48.9			50.0
+28	16	37.4 6.3			1.4			7.8			3.			4.0
		37.2 37.3			16.2			21.3			17.			17.5
		37.6 53.2			30.0			35.4			30.8			31.4
		37.1 8.3			43.8			49.0			44.5			45.0
23	59	37.7 24.4			52.4			2.8			58.4			59.0
		12.3	0	4	12.3	0	55	16.3	1	15	12.4	2	34	13.1
		209.4			209.4			186.6			215.0			220.0
		37.43			29.91			35.23			30.71			31.43
23	58	-2			-2			-2			-2			-2
23	58	35.43	0	3	27.91	0	54	33.23	1	14	28.71	2	33	29.43

one wire lost here

1850. Dec. 30

Ill. West

C. W. 7

 β Urs Min

29.4

26.3

13.

5.4

5.4

50.4

43.

221.5

5.85

2

49 3.85

1851. Jan 1. A. M.

$$a = -0.35$$

$$b = -0.14$$

$$c = +0.22$$

Ill. West

C. W. 7.

27 Bootis

 α Bootis

42.5

8.32

57.7 +19° 58' 43.5 14.2

8.32

12.3 43.1 28.5

8.32

26.8 43.5 43.5

8.32

40.9 43.4 58.0

8.32

55.8 43.0 12.2

8.32

13 46 10.3 14 7 43.0 26.8

8.32

246.3

2.315

26.61 43.25

8.32

-2 -2

8.32

13 45 24.61 14 6 41.25

8.32

1851. Jan. $\frac{1}{2}$

$$a = -0.85$$

$$b = -0.14$$

$$c = +0.22$$

ell. West

C. N. 7.

 ϵ Bootis

"

 α Cor. Bore

29.7

23.3

45.3

39.3

0.8

55.

16.3

10.4

31.8

25.8

47.4

41.3

14 37

2.8

15

26

56.4

174.1

284.5

16.30

10.28

-2

-2

14 36

14.30

15

26

8.21

18 St. Jan. 3.

 $a = -0.35$
 $b = -0.14$
 $c = +0.22$

Ell. West

C.N.7.

Andromeda

39.

55.

10.3

25.4

42.

57.

23 59 12.4

241.1

25.87

-2

23 58 23.87

1851. Jan. 7.

 $a = -0.35$
 $b = -0.15$
 $c = +0.22$

O. W. 7.

Ill. West

 α Andromedae γ Pegasi α Beti

				27.4		21.			
+28°	16	13.1	42.0	37.8		34.7			
		13.6	58.0	57.9		48.4			
		13.9	14.0	6.4		2.3			
		13.8	29.4	20.3		16.			
		13.8	45.0	34.1		29.9			
23	59	13.7	0.4	0	3	48.4	2	52	43.4
				222.7		195.7			
		13.65		6.10		2.24			
		-2		42		-2			
23	58	11.65	0	3	4.10	2	52	0.24	

851. Jan. 7/8

$$a = -0.35$$

$$b = -0.18$$

$$c = +0.22$$

Ill. West-

C. W. Y.

 ϵ Bootis α^2 Librae β Librae

11.8

25.8

48.

27.7

40.4

1.8

43.2

54.4

16.

58.4

8.8

29.7

14.3

22.9

43.4

29.8

37.3

57.3

14 36

41.4

14 46

51.4

15 7

11.3

230.6

241.0

207.5

56.65

8.71

29.64

-2

-2

-2

14 35

54.65

14 40

6.71

15 6

27.64

1851. Jan. 8,

$$a = -0.35$$

$$b = -0.15$$

$$c = +0.22$$

Ill. West.

C. W. 2.
 γ Ceti" "
 α Ceti

		23.4			16.1		
		37.4			29.7		
		50.9			43.2		
		5.0			57.4		
		18.4			11.4		
		32.3			24.8		
2	33	45.9	2	52	38.2		
		213.3			220.8		
		4.75			57.25		
		-2			-2		
2	33	2.75	2	51	55.25		

1851. Jan. 9/10

$a = -0.33$

$b = -0.15$

$c = +0.22$

Ill. West

C. W. S.

Cor. Bor.

0.2

15.4

30.8

46.4

1.9

17.4

15 26 32.8

144.9

46.41

-2

15 25 44.41

1851 Jan. 10/11

 $a = -0.35$
 $b = -0.13$
 $c = +0.23$

Ill. Mer

O. W. 7.

 β Librae α Cor. Bor.

		39.8			57.9
		53.9			13.3
		7.4			28.9
		21.4			44.4
		35.4			59.9
		49.5			15.0
15	7	3.0	15	26	30.2
		210.4			249.6
		21.48			44.23
		-2			-2
15	6	19.48	15	25	42.23

1850 Jan. 11

$a = -0.35$

$b = -0.09$

$c = +0.24$

C. W. 7.

Ill. West

Adromedae		Pegasi		Arietis		Beti		Pisium	
	15.8		12.9		23.6		10		00.6
	31.4		27.0		39.		24		14.5
	47.4		41.0		53.4		38		28.2
	2.9		55.3		8.1		51.3		41.9
	18.4		9.4		23.2		5		51.8
	33.9		23.5		38.4		18.9		9.7
23 58	49.3	0 3	37.4	1 56	53.4	2 52	32.3	1 52	22.9
	199.1		206.5		239.5		179.5		173.6
	19.1		386.5		59.5		359.5		293.6
	2.73		55.21		8.50		51.35		41.94
	-2		-2		-2		-2		-2
23 58	0.73	0 2	53.21	1 56	6.50	2 51	49.35	1 51	39.94

Jan. 11. 1851

Old West

C. W. 7.
ξ' beti

Moon TT0

B. A. C. 845

π Aielis

			46.4			9.			33.5			38.	
			0.3			23.2			47.4			51.8	
			14.4			37.3			1.3			6.4	
			28.			51.9			15.2			20.7	
			41.9			6.0			29.			35.0	
			56.0			19.8			42.8			49.5	
2	3		9.9	2	20	34.0	2	34	57.	2	44	4.	
			196.9			181.2			226.2			205.4	
						361.2			106.2			145.4	
94			28.13			51.60			15.17			20.77	
			-2			-2			-2			-2	
94	2	2	26.13	2	19	49.60	2	34	13.17	2	43	18.77	

1851. Jan. 12/13

C. W. 7.

H. West

$a = -0.347$

$b = -0.09$

$c = +0.25$

 β Librae β Librae

13

34.9

27

48.

41.2

2.3

55.3

16.4

9.8

30.2

23.9

44.

14 40

48.2

15

6

58.1

218.4

233.9

59.48

16.41

-2

-2

14 39

53.48

15

6

14.41

1851. Jan. 13

$a = -0.34$

$b = -0.09$

$c = +0.25$

C. W. Y.

U. West

C. W. Y.		U. West	
α Andromedae	γ Pegasi	α Cassiopei	β Ceti
10.9	—	36.6	7.8
26.4	+14° 21 —	1.0	22.3
42.	50.2 36	25.3	36.9
57.8	50.0 50	49.7	51.3
13.2	50.0 4.2	13.9	6.0
28.8	49.8 18.2	38.3	20.1
23 58 44.3	49.8 32.3 0	33 2.6 0	36 31.1
223.4		167.4	178.9
57.63	49.96	49.63	51.41
-2	-2	-2	-2
23 57 58.63	47.96 0	31 47.63 0	31 49.41

1851. Jan. 8

$a = -0.35$

$b = -0.14$

$c = +0.23$

Ill. Mer

C. N. 7.

Moon TO

12 Ceti

 α Cassiopei γ Pegasi

59.1

27.2

13.2

41.1

 $+55^{\circ} 43'$ $+14^{\circ} 21'$ 2.1 33.6

27.2

54.6

2.3 48.1

41.2

8.5

22.9 23.0

2.0 2.0

54.4

22.8

22.8 47.2

2.1 16.3

9.2

36.0

22.6 11.4

2.1 30.5

23 9

22.5

0

22

49.7

22.6 35.6

2.3 44.8

227.9

239.9

41.13

8.55

22.72

2.15

-0

-0

-2

-2

23 8

41.13

0

22

8.55

20.72

0.15

1851. Jan. 13

$a = -0.34$

$b = -0.09$

$c = +0.25$

lll. West

C.W.T.

 α Orionis μ Geminor

34.4

29.

48.4

43.3

2.3

58.4

16.2

13.3

30.0

28.

44.

43.

5 53

57.6

11

58.

232.9

273.0

112.9

93.0

16.13

13.28

-2

-2

5 53

14.13

6

11

11.28

1851. Jan. 15

$a = -0.32$

$b = -0.09$

$c = +0.25$

C. W. 7.

Ill. Mus.

Andromedae				Tauri				Aurigae			
		6.4				52.				54.4	
		21.9				6.3				14.	
		37.4				20.3				34.	
		53.0				35.0				53.4	
		8.7				49.0				13.5	
		24.				3.3				33.0	
23	58	40.	4	25	18.0	5	3	53.0			
		191.4			183.9			255.3			
		53.05			34.84			53.61			
		+2			-2			-2			
23	57	51.05	4	24	32.84	5	2	51.61			

1851 Jan. 15/16

$a = -0.32$

$b = -0.09$

$c = +0.25$

Ill. Mus.

O. n. 7.

 α Serpenti

5.6 24.0

+6° 54 5.6 38.0

5.6 51.8

5.9 5.9

—

5.7 32.4

15 34 5.6 47.

148.3

5.66

-2

15 34 3.66

1851. Jan. 13

$a = -0.34$

$b = -0.09$

$c = +0.25$

Ill. West

"

"

"

O. W. T.

 ϵ Tauri λ Tauri

Moon TO

 ϵ Tauri λ Tauri

10.5

29.8

58.2

58.2

25.7

24.9

43.7

12.9

12.8

40.2

38.6

57.8

27.5

27.

54.6

52.4

12.0

41.9

41.7

9.1

6.3

26.2

57.0

56.1

23.1

20.4

40.1

11.3

10.9

37.3

3 40

187.5

3 52

54.1

4 11

26.0

4 20

25.2

4 27

51.8

15

263.7

234.8

231.9

241.8

52.50

11.95

42.11

41.70

8.83

-0

-2

-0

-0

-0

3 39

52.50

3 52

9.95

4 10

42.11

4 19

41.70

4 27

8.83

15

1851. Jan. 7/18

$a = -0.31$

$b = -0.09$

$c = +0.24$

Ill. West

C. N. 2.

2 Cor. Bor.

 γ Beti α Beti

7			41.3			58.4			53.0	
2			57.0			12.3			7.0	
6			12.3			26.2			20.5	
1			28.			40.			34.0	
1			43.			53.4			48.2	
3			58.9			7.			2.1	
8	15	26	14.0	2	33	20.9	2	52	15.4	
8			254.5			218.2			188.2	
83			27.78			39.74			34.31	
			-2			-2			-2	
83	15	25	25.78	2	32	37.74	2	51	32.31	

1851. Jan. 18

$$a = -0.30$$

$$b = -0.09$$

$$c = +0.22$$

Ill. Mer

C. W. 7.

x Tami

44.5

59.

13.5

27.1

42.0

56.0

4 25- 10.4

25-2.5

27.50

-2

4 24 25.50

1851. Jan. 20.

$a = -0.29$

$b = -0.09$

$c = +0.21$

C. M. G.

Ill. Men

 β Orionis β Tauri ρ Orionis

39.8

4.0

41.

53.3

19.4

54.8

7.4

35.2

8.4

21.2

51.0

22.0

35.3

6.4

36.0

49.0

22.3

49.8

5 5

3.05

14

38.0

5

22

3.4

209.0

176.3

215.4

21.29

80.90

22.16

2

-2

-2

5 4

19.29

13

48.90

5

21

20.16

1851. Jan. 20/21

$a = -0.30$

$b = -0.09$

$c = +0.22$

J. L. M. M.

C. N. J.

 α Serpentis

9.8

24.

37.4

51.3

5.0

19.0

15 34 33.0

179.5

51.35

-2

15 33 49.35

1851. Jan. 21

 $\alpha = -0.30$ $b = -0.09$ $c = +0.22$

C. W. 7.

Polaris

o Beti

 β Orionis

α Andromedae	α Tauri	Polaris	o Beti	β Orionis
49.3	34.9	38 50.8 10.9	15 39.7	36.4
5.	49.0	47 52.7 10.5	54.0	50.4
20.3	3.4	56 50.9 0.0	7.9	4.5
35.9	17.9	88 31 8.3	21.8	18.4
51.3	32.0	13 53.5 45.8	35.7	31.8
7.4	46.4	22 56.8 40.6	49.5	45.4
23 58 23.0 4	25 1.0	31 54.9 30.0	17 3.4	59.4
192.2	184.6		212.0	246.3
36.03	17.80	4 53.27	21.71	18.04
-2	-2	-2	-2	-2
23 57 34.03 4	24 15.80 1	4 51.27 1	16 19.71 5	4 16.04

1851. Jan. 21

$a = -0.30$

$b = -0.09$

$c = +0.22$

Ill. Min

C. N. 7,

 β Tauri

1.

16.

32.4

48.

3.5

19.4

5 14 34.

154.3

47.75

-2

5 13 45.75

1851. Jan. 22/23

$a = -0.29$

$b = -0.09$

$c = +0.21$

Ill. Wm

C. W. S.

 β Librae α Cor. Bor.

		50.28.4			26.3
-8	50	—			42.
		50.336.4			57.2
		50.450.4			13.0
		50.14.0			28.5
		50.117.9			44.0
15	6	50.231.8	15	25	59.4
					270.4
		50.22			12.91
		-2			-2
15	5	48.22	15	25	10.91

1851. Jan. 23

 $a = -0.28$
 $b = -0.09$
 $c = +0.21$

Ill. West

C. W. 7.

 β Ceti

10.0

24.7

39.2

53.6

8.4

23.

0 33 37.2

196.1

53.73

~0

0 32 53.73

1851. Jan. 23/24

$a = -0.28$

$b = -0.09$

$c = +0.21$

Ill. Men

C. W. T.

 α Serpentis

2.

16.

29.5

43.4

57.4

11.

15 34

25.

184.3

43.47

-2

15 23 41.47

1851. Jan. 24

$a = -0.28$

$b = -0.09$

$c = +0.21$

All. West

C. W. 7.
Betel" ρ Orionis" ϵ Orionis

		41.			30.0			45.	
		55.			44.0			59.8	
		8.4			58.0			13.3	
		22.3			11.3			27.	
		36.0			24.9			40.7	
		50.			39.0			54.4	
2	33	3.4	5	24	52.4	5	29	8.4	16
		216.1			259.6			248.6	
		22.30			11.37			26.94	
		-2			-2			-1	
2	32	20.30	5	24	9.37	5	28	24.94	16

1850 Jan. 24/25

Ill. West.

C. N. 7.

8 Ophiuchi

36.8

50.7

4.5

18.4

32.0

46.

16 6 59.4

247.8

18.25

-2

16 6 16.25

1851. Jan. 23.

$a = -0.28$

$b = -0.09$

$c = +0.21$

18

C. W. V.

1st. m. m.

Andromedae		γ Pegasi		α Cassiopeae		β Ceti		Polaris		
41.5		4	37.8		37.8		9.3	0	38 47.98.0	1
56.9			52.2		2.6		24.0		47 49.5 7.3	
12.5			6.3		26.7		38.4	88 31 8.3	55 49.258.1	
28.2			21.0		51.2		52.8		4 50.952.6	
43.6			34.9		15.6		7.7		13 51.944.2	
59.0			49.0		39.9		22.1		22 52.436.2	
23 60 14.9 0	6	3.1 0	33 4.1 0	36 36.3						
256.6		202.3		177.9		190.6				
28.08		20.33		51.13		52.94			50.30	
-0		-0		-0		-0			-2	
23 59 28.08 0	5	20.33 0	32 51.13 0	35 52.94	132 54 248.30					1

1851 Jan. 23

Ill. West

C. N. 7.

θ' Beti

0	1	15	39.8
3			53.5
1			7.5
6			21.4
2			35.2
2			49.3
	17		3.0
			209.7
30			21.38
			-0
50	1	16	21.38

1851. Jan. 24.

$a = -0.28$

$b = -0.09$

$c = +0.21$

Ill. West.

C. W. Y.

 α Cassiopeae β Ceti

Polaris

 θ Ceti

1850	30	37.8		35	9.3	38	10.2		39.5	
		2.3			23.8	47	9.1		53.6	
		26.6			52.8	55	59.0		7.4	
		51.0			38.4	4	52.9		21.3	
		15.4			7.5	13	44.5		35.0	
		39.7			21.9	22	35.0		49.2	
00	33	4.2	0	36	36.3	1	31	24.3	17	2.9
		177.0			190.0			235.0		209.9
		51.00			52.85	4	50.71		21.41	
		-0			-0		0		-0	
0	31	51.00	0	35	52.85	1	4	50.71	16	21.41

1851. Jan. 25

$a = -0.28$

$b = -0.09$

$c = +0.21$

C.N.T.

Ill. West

0 Beti		Polaris		α Tauri		α Aurigae		β Tauri	
15	39.4	0	47 53.5 11.3		27.1		29.9	15	53.3
	53.5		56 51.3 0.2		41.4		49.8		9.2
	7.3	88° 31' 8.2"	4 49.4 51.1		55.5		9.4		24.6
	21.2		13 48.2 40.5		9.8		28.1		40.3
	35.1		22 52.2 36.0		24.3		48.9		55.9
	49.1	1	31 51.7 26.8		38.5		8.4		11.6
17	2.6			4	52.7	5	28.0	5	17 27.1
	208.2				249.3		202.9		222.0
	21.17		4 51.05		9.90		28.98		40.28
	-0		-2		-0		-0		-0
16	21.17	1	4 49.05	4	27 9.90	5	28.98	5	16 40.28

first wire lost.

1851. Jan. 25.

$a = -0.28$

$b = -0.09$

$c = +0.21$

C. M. G.

Ill. West

 δ Orionis ϵ Leporis ϵ Orionis

23

30.2

27

45.7

44.0

-17°

58'

57.5-28.7

59.4

57.7

57.6 43.2

13.3

11.4

57.6 57.6

27.1

25.1

57.5-12.0

40.8

38.9

57.7 26.6

54.6

4

52.7

5

25

57.6 40.8

5

29

8.5

260.0

249.4

11.43

57.58

27.05

0

-0

-0

5

24

11.43

5

24

57.58

5

28

27.05

1851. Jan. 27.

$a = -0.28$

$b = -0.09$

$c = +0.20$

Ill. West

C. W. T.													
α Beti		α Persei		γ Tauri		γ Eridani		α Tauri					
	35.4		26.5	37	40.3	50	9.7	4	26		26.5		
	49.3		47.8		55.4		23.8				41.5		
	3.0		8.0		10.2		37.8				55.6		
	16.6		29.6		25.5		57.9				9.9		
	30.4		30.4		40.6		6.2				24.2		
	44.2		11.5		55.4		20.1				38.6		
2	55	3	4	3	39	3	59	4	27		52.9		
	236.7		206.4		237.6		180.0				249.2		
	16.67		29.49		25.37		51.43				9.88		
	-0		-0		-0		-0				-0		
2	55	3	3	3	38	3	50	4	27		9.88		
	16.67		29.49		25.37		51.43						

1851. Jan. 27.

$$a = -0.28$$

$$b = -0.09$$

$$c = +0.20$$

Ill. West

C. W. 7.

Aurigae

 β Orionis

4 29.2

49.2 -8 23 10.7 42.9

8.8 10.4 56.5

28.8 10.5 10.5

48.2 10.2 24.1

8.1 10.4 38.1

5 6 27.9 5 7 10.3 52.0

200.2

28.60 10.42

-0 -2

5 5 28.60 5 7 8.42

1851. Jan. 29

$a = -0.27$

$b = -0.09$

$c = +0.20$

C. W. J.

Ill. Men

 β Tauri δ Orionis α Leporis

15	52.7			29.5			45.2	
	8.2			43.7			59.0	
	23.7			57.0			12.7	
	39.3			10.7			26.4	
	55.3			24.6			40.3	
	11.3			38.2			54.1	
5	17	26.8	5	24	51.9	5	25	7.5
		217.3			255.6			245.6
		39.61			10.80			26.51
		-0			-0			-0
5	16	39.61	5	24	10.80	5	28	26.51

1851. Jan. 30

C. N. Y.

Ill. West

$a = -0.27$

$b = -0.09$

$c = +0.19$

1850phae.

γ Eridani	β Tauri	δ Orionis	α Leporis	ϵ Orionis	α
9.3	5 15 52.8	5 23 29.8	25 13.9	27 41.2	18
23.6	8.5	43.8	28.3	59.2	
37.6	24.2	57.4	42.6	12.9	
51.8	39.6	11.2	57.1	26.5	
6.	55.4	25.1	11.4	40.4	
20.2	11.1	38.5	26.0	58.9	
34.4	26.9	5 24 52.2	5 26 40.3	5 29 7.8	
182.9	218.5	258.0	219.6	245.9	
51.84	39.78	11.14	57.08	26.56	
-0	-0	-0	-0	-0	
40 51.84	5 15 39.78	5 24 11.14	5 25 57.08	5 28 26.56	18

1851. Jan. 30/31

Ill. Min

C. M. T.

 α Lyrae

18 30 45.9

3.7

21.2

38.1

56.0

14.8

32 33.5

213.2

39.03

-0

18 31 39.03

851. Jan. 31.

$a = -0.27$

$b = -0.09$

$c = +0.19$

Ill. West

C. W. 7.

3 Tami

" α Leporis" ϵ Orionis" α Orionis

52.4

13.5

45.0

11.9

8.3

27.9

58.8

21.8

23.7

42.2

12.6

39.4

39.4

56.6

26.1

53.5

58.0

11.1

40.2

7.2

10.8

28.7

54.0

21.2

5 17

26.0

5 26

40.0

5 9

7.6

5 47

34.7

215.6

217.0

244.3

193.7

39.37

56.71

26.33

53.39

-0

-0

0

-0

5 16

39.37

5 25

56.71

5 8

26.33

5 46

53.39

1851 Feb. $\frac{2}{3}$

$a = -0.27$

$b = -0.09$

$c = +0.18$

Ill. Mer

C. W. 7.

 α Aquilae

33.7

47.9

1.7

15.4

29.5

43.3

19 43 57.2

228.7

15.73

-0

19 43 15.73

1851. Jan. Feb. 3.

$$a = -0.27$$

$$b = -0.09$$

$$C = +0.18$$

Ill. West

C. W. 7.

Andromedae		Pegasi		Polaris		δ' Ceti	
2	59	40.0 0	4	37.0 0	38	4.6	38.3
		55.4		51.0	47	3.8	52.2
		11.0		5.0	55	53.6	5.9
		27.0		19.3	13	37.4	20.1
		42.2		33.6	4	46.5	34.0
		58.0		47.7	22	29.5	48.0
0	1	13.4 0	6	1.8 1	31	20.4 1	17 1.6
		248.0		195.4		195.8	200.1
		26.85		19.34		45.11	20.01
		0		-0		-0	-0
0	0	26.85 0	5	19.34 1	4	45.11 1	16 20.01

1851. Feb. 4

$a = -0.27$

$b = -0.09$

$c = +0.17$

C. W. W.

Ill. Men

 α Arietis γ Beti

Perni

47.8 34 39.4 3 12 25.2

2.9 53.4 46.4

17.7 7. 7.4

32.8 21. 28.6

47.6 34.5 49.7

2.4 48.3 10.8

L 59 17.4 2 6 2. 14 31.7

168.6 205.6 199.8

32.75 20.80 28.34

-0 -0 -0

1 58 32.75 2 5 20.80 3 13 28.54

Feb. 6/ 1858.

$a = -0.26$

$b = -0.09$

$c = +0.16$

J. L. W. M.

C. W. 7.

Aquilae

3 02.2

16.3

30.0

44.2

58.0

11.5

19 44 25.7

187.9

43.98

1851. Feb. 7

$a = -0.26$

$b = -0.19$

$c = +0.15$

Ill. Man

0. N. 7.

α Ueti

Moon II O

ξ^2 Ueti

v Ueti

γ Ueti

1	57	48.2	2	2	27.0	2	19	19.2	2	27	8.6	2	34	39.8
		3.6			41.1			33.2			22.4			53.9
		18.3			55.1			47.1			36.1			7.7
		33.1			9.2			0.9			50.1			21.5
		48.2			23.3			14.8			8.7			31.2
		3.0			37.6			28.3			17.5			49.0
1	59	17.6	2	3	51.8	2	20	42.3	28	31.1	2	36	2.5	
		172.0			245.1			185.8			169.5			209.6
		232.0			65.1			05.8			349.5			149.6
		33.14			9.30			0.83			49.93			21.37
		-0			-0			-0			-0			
1	58	33.14	2	3	9.30	2	20	0.83	2	27	49.93	2	35	21.37

1851. Feb. 7

$$a = -0.26$$

$$b = -0.09$$

$$c = +0.15$$

W. W. W.

C. W. 7.

β Orionis

β Tauri

δ Orionis

α Leporis

ϵ Orionis

6	27.9	52.9	29.5	56.9	28.1	5	27	44.9	4
	41.9	8.5	43.4	-17	56.7	42.3		58.9	
	55.8	23.9	57.1		56.7	56.7		12.4	
	9.8	39.7	10.9		56.7	11.2		26.1	
	23.7	55.3	24.5		56.8	25.7		39.8	
	37.4	11.0	38.1		56.5	39.7		53.8	
7	51.2	5	17	26.3	5	24	11.9	29	7.3
	247.7		216.6			215.4		243.2	
	67.7		277.6			475.4		183.2	
	9.67		39.51			10.77		56.72	26.17
	-0		0			-2		0	
5	7	9.67	5	16	39.51	5	24	10.77	54.72
									5
									28
									26.17
									4

first wire end

1850. Feb. 11.

 $a = -0.25$ $b = -0.09$ $c = +0.15$

C. W. 7.

Ill. West

1850phae

	11 Orionis		15 Orionis		β Orionis		β Tauri		δ Orionis			
9	4	55	8.8	0	15.1	6	29.4	15	53.4	5	23	30.4
9			22.9		29.7		43.1		9.4			44.2
4			36.7		43.8		56.9		24.8			57.8
1			51.1	0	57.8		11.0		40.7			11.6
5			5.4	1	12.7		24.9		56.5			25.5
6			19.7		41.0		38.8		12.0			99.2
3		56	33.7	5	27.0	5	52.4	5	27.2	5	24	52.6
2			178.3		227.2		256.4		224.0			261.3
2			358.3		46.7		76.5		284.0			81.3
7			51.19	1	58.14		10.91		40.57			11.61
			-0		-0		-0		-0			0
7	4	55	51.19	5	58.14	5	10.91	5	40.57	5	24	11.61

1851. Feb. 11.

$$a = -0.25$$

$$b = -0.14$$

$$c = +0.12$$

C. W. 7.

Del. Mar

ϵ Orionis

α Orionis

Moon IV

27	45.95	46	12.95	41	17.8
	59.7		25.5		32.7
	13.4		40.4		47.5
	27.3		54.5		2.8
	40.9		8.0		17.6
	54.8		21.8		32.7
5 29	8.45	47	35.65	42	47.5
	250.4		379.7		198.6
	190.4		10		18.6
	27.20		54.24		2.66
	-0		-0 10		-0
5 28	27.205	46	34.245	42	2.66

1851. Feb. 13

$a = -0.24$
 $b = -0.12$
 $c = +0.12$

Ill. Men

C. W. G.

α Beti			α Persei			α Tauri			δ Gemino			δ Gemino		
2	53	35.2	3	12	26.4	4	26	18.0 27.0	6	54	20.	7	10	16.8
		49.1			47.7			10.0 41.4			34.9			31.4
		2.9			8.2	+16	12	9.9 53.6			49.5			46.5
		16.6			29.9			—			4.3			1.2
		30.3			50.8			—			19.1			16.1
		44.1			11.8			—			33.9			31.0
2	54	57.6		14	32.7			—	6	55	48.4	7	11	45.6
		235.8			206.5						209.1			188.6
		16.54			29.50			9.97			4.15			1.23
		0			-0			-2			-0			-0
2	54	16.54	3	13	29.50	4	27	7.97	6	55	4.15	7	11	1.23

1851. Feb. 14/17

$a = -0.24$

$b = -0.12$

$c = +0.12$

C. W. 7.

Ole. near

 α Lyrae α
5 Aquilae α
 α Aquilae

			18	57	38.0	19	42	35.6
+38°	39'	40.6 5.5			52.2			49.6
		40.122.5			6.4			3.4
		40.540.6			20.2			17.3
		40.357.9			34.5			30.9
		40.515.7			48.7			45.2
18	32	40.333.0	18	59	2.8	19	43	59.0
		142.2			202.8			241.0
		40.38			20.40			17.28
		-0			-0			-0
18	31	40.38	18	58	20.40	19	43	17.28

1851. Feb. 18

$$a = -0.24$$

$$b = -0.12$$

$$c = +0.11$$

C. W. 7.

Ill. Men

γ Tauri		α Lyrae		β Lyrae			
3	37	39.9	18	30	46.9	18	43
		58.0			4.4		47.9
		9.8			21.7		4.3
		24.8			39.6		21.0
		39.7			57.4		37.4
		54.6			14.6		53.5
3	39	9.7	18	32	32.6	18	45
		233.5			217.0		205.6
		24.78			39.57		20.80
		-0			-0		-0
3	38	24.78	18	31	39.57	18	44
							20.80

1851. Feb. 19

$a = -0.24$

$b = -0.02$

$c = +0.11$

C. W. 7.

Ill. Wm

Ceti

Pisces

1161 B. A. C.

2	53	34.7	3	12	25.7	3	26	31.		
		48.5			46.9			45.9		
		2.2			7.6			1.1		
		16.			29.0			15.9		
		29.8			50.0			31.0		
		43.5			10.9			45.9		
	54	57.2	3	14	32.1	3	38	0.7		3
		231.9			202.2			171.5		
		111.9			28.85			15.93		
		15.98			-0			-0		
		-0								3
2	54	15.98	3	13	28.85	3	37	15.93		

1881. Feb. 22.

$a = -0.24$

$b = -0.12$

$c = +0.11$

ell. West

C. W. 7.

 γ Tami γ' Eridani

	7	39.5	0	8.9	
		54.6		23.0	
		9.6		37.0	
		24.5		51.2	
		39.5		5.5	
		54.6		19.5	
3	39	9.5	3	51	33.6
		231.8		178.7	
		24.54		51.24	
		-0		-0	
3	38	24.543	50	51.24	

1851. Feb. 24/25

$$a = -0.24$$

$$b = -0.12$$

$$c = +0.11$$

Ill. West

C. N. 7.

Lyrac

30	48.0
	5.6
	23.1
	40.9
	58.5
	16.0
18 32	33.5
	225.6
	40.80
	-0
18 31	40.80

1851. Feb. 25

$a = -0.24$

$b = -0.12$

$c = +0.11$

ell. Men

C. M. G.

Polaris

α Arietis

0	37	51.81	57	49.3
	4.6	49.9	58	4.3
	55	40.0		19.0
	4	30.9		34.0
	13	27.5		49.1
	22	13.5		3.9
1	31	2.71	59	18.8
		216.3		178.4
		30.90		34.05
		-0		0
1	4	30.901	58	34.05

1871. Feb. 26

$a = -0.24$

$b = -0.12$

$c = +0.11$

C. W. Y.

Ill. Men

Polaris

Arietis

β Ceti

α Persci

			1	57	49.0	2	53	35.6	3	12	26.3	
0	46	29.748.4			4.0			49.2			47.4	
	55	32.241.6			19.0			3.1			8.2	
88° 31'	31 4	33.535.2			33.9			16.8			29.5	
	13	32.224.1			48.9			30.4			50.5	
	22	31.914.8			3.6			44.3			11.8	
	31	30.34.11		59	18.4		54	57.9		14	32.4	18
					176.8			237.8			206.1	
		31.65			33.83			16.75			29.44	
	0				-0			-0			-0	
1	4	31.651		58	33.83	2	54	16.75	3	13	29.44	18

1851. March 1.

$a = -0.23$

$b = -0.14$

$c = +0.11$

Ill. mem

Q. W. 7.			S. Aquilae			S. Aquilae			y Aquilae			α Aquilae		
S. Lyrae			S. Aquilae			S. Aquilae			y Aquilae			α Aquilae		
47.5			5.0			15.4			36.1					
5.5	+13	39	20.9	52.7		18.7			29.8			50.0		
23.0			20.7	6.6		32.2			43.5			3.9		
40.3			20.9	20.9		46.1			57.5			18.0		
58.0			20.8	35.0		0.0			11.2			21.7		
15.6			20.9	49.2		13.8			25.5			45.5		
18	32	33.2	18	59	20.7 3.0	19	18	27.2	19	39	39.4	19	43	59.3
223.1			143.0			222.3			244.5					
40.44			20.80			46.14			57.43			17.78		
-0			-2			-0			-0			-0		
18	31	40.44	18	58	18.80	19	17	46.14	19	38	57.43	19	43	17.78

1851. March. 1

$a = -0.23$

$b = -0.14$

$c = +0.11$

C. W. 7.

Ill. Men

Polaris

" α Arietis" γ Tauri

	1	57	49.2	3	37	40.5		
0	46	32.2	50.9		4.4	55.7		
88	31	2.4	55	30.8	40.2	19.1		
	4	28.6	30.3		34.0	25.5		
	13	33.6	25.8		49.1	40.6		
	22	35.3	18.2		3.6	55.6		
	31	29.4	3.2	1	59	18.4	3	39
					177.8		238.9	
		31.65			33.97		25.56	
	0				-0		-0	
1	4	31.65	1	58	33.97	3	38	25.56

1851 March 4

$$A = -0.23$$

$$b = -0.14$$

$$C = +0.11$$

Ill. Men

O. W. 7

Hydrae

V. Maj

8	38	2.1	8	47	47.3
		16.			8.2
		29.8			29.
		43.7			49.8
		57.4			10.5
		11.3			31.4
8	39	25.	8	49	52.1
		185.3			228.3
		43.61			49.76
		-0			-0
8	38	43.61	8	48	49.76

1851 March 5

$a = -0.23$

$b = -0.14$

$c = +0.11$

C. W. 7.

Bell. West

1850phae. p

C. W. 7.			"			"			"			"			
Aquilae			Aquilae			S Gemini			S ² Gemini			Canis Min			
19	42	38.7	10	19.4	4	7.3	7	30	39.4						
+10	15	52.5		34.5		23.5			53.4						
19	38	59.9	46.	6.4	49.0	39.5			7.1						
	60.3	0.3		20.2	4.0	55.8			21.						
	60.0	14.		34.2	18.9	12.0			34.6						
	59.9	27.8		48.1	33.7	28.2			48.6						
39	60.1	41.9	19	44	2.0	7	11	48.4	7	25	44.4	7	32	2.3	7
				202.1				207.9			210.7			206.4	
	0.04			20.30				3.98			55.81			20.91	
	-0.			-0				0			-0			-0	
19	39	0.04	19	43	20.30	7	11	3.98	7	24	55.81	7	31	20.91	7

1851. March 5

Alt. Mer

O. N. 7.

 β Gemina

7 35 15.4

31.3

46.8

2.5

18.0

33.7

7 36 49.3

197.0

2.43

-0

7 36 2.43

1850. March. 10

$a = -0.22$

$b = -0.14$

$c = +0.10$

Ill. West

C. W. 7.

α Canis Min			β Gemino			γ Hydra			δ Uta Maj		
7	30	45.8	7	35	21.7	8	38	8.9	8	47	53.9
		59.6			37.5			22.8			15.
		13.5			53.0			36.5			35.7
		27.2			8.7			50.2			56.5
		41.0			24.2			4.0			38.1
		54.7			39.8			17.9		49	58.8
7	32	8.3	7	36	55.3	39	31.6				
		250.1			240.2			171.9			275.2
		27.15			8.60			50.27			56.46
		-0			-0			0			0
7	31	27.15	7	36	8.60	8	38	50.27	8	48	56.46

1854. March. 10/11

$a = -0.22$

$b = -0.14$

$c = +0.10$

Ill. Ven

C. W. T.

 γ Aquilae α Aquilae β Aquilae α Cygni

19	38	25.0	19	42	45.6	19	47	56.1	14.6	20	35	19.
		39.3			59.6	+6°	2	56.2	28.6			38.1
		53.1			13.6			56.3	42.5			57.8
		7.1			27.4			56.6	56.6			17.4
		21.1			41.1			—				36.6
		35.0			55.0			29.9				59.8
	39	48.9	19	44	8.9	19	48	56.2	37.6		37	15.2
		229.5			251.2							240.3
		7.07			27.31			56.28				17.19
		-0			-0			0				-0
19	39	7.07	19	43	27.31	19	47	56.28	20		36	17.19

1851. March 11/12

a = - 0.22
b = - 0.14
c = + 0.10

Oct. West

C. N. 7.		"		"		"	
Aquilae		S Aquilae		γ Aquilae		α Aquilae	
53.1		7, 14.9	33.6	8	30.3	51.0	
7.4	+2	49 14.4	47.0		44.2	4.8	
21.5		14.6	0.9		58.2	18.6	
35.8		14.7	14.7		12.3	32.7	
49.7		14.6	28.4		26.1	46.3	
5.8		14.5	42.0		40.0	0.2	
18.5	59	17.9	19	18	—	19	39
189.2					54.0	19	44
					265.1		14.0
							167.6
35.60		14.62			12.15		32.57
0		-0			-0		-0
18.5	58	35.60	19	18	14.62	19	39
					12.15	19	43
							32.51

1851 March 12

$$a = -0.22$$

$$b = -0.14$$

$$c = +0.10$$

Ill. West

O. W. 7.		"		"		"		"		"	
β Orionis		β Tauri		δ Orionis		ϵ Orionis		μ Geminor			
6	35.2	16	0.		36.4	5	27	52.3		6.4	
	49.2		15.6		50.9			6.2		22.5	
	3.5		31.2		4.8			20.0		26.4	
	17.1		47.0		16.2			34.0		56.2	
	20.8		2.4		32.1			47.4		6.1	
	44.7		18.1		45.9			1.5		71.2	
5	7	5	17	5	24	5	29	15.06	14	36.1	
	239.2		147.9		247.4			176.4		179.7	
	17.03		46.84		18.20			33.77		51.38	
	-1.6		1.6		1.6			-1.6		1.6	
5	7	5	16	5	24	5	28	32.77	6	13	9.78

1851. March. 12

$a = -0.22$

$b = -0.14$

$c = +0.10$

ell. Mer

C. W. 7.

 γ Geminor

19 17.2

32.3

47.4

1.8

16.2

30.7

6 20 48.2

190.8

1.54

1.6

6 19 59.94

1851. March. $\frac{13}{14}$

$a = -0.22$

$b = -0.14$

$c = +0.10$

C. M. 7

ell. West

 γ Aquilar α Aquilar α Bygni

23.2

43.3

35 17.0

37.1

57.2

36.4

51.1

11.2

55.6

4.9

25.1

15.3

19.0

39.0

34.5

32.9

53.0

53.6

19 39

47.0

19

44

6.8

20

37

13.6

215.2

235.6

225.4

5.03

25.08

15.05

-1.6

-1.6

1.6

19 39

3.43

19

43

23.48

20

36

13.45

1850-1. March 14

$$a = -0.22$$

$$b = -0.14$$

$$c = +0.10$$

Q. W. G.

Ill. West

Procyon

Hydrae

E. Serpens

44.6

30.4

34.

58.4

44.7

47.1

12.1

58.2

4.2

25.8

12.1

19.5

39.6

26.0

34.7

53.3

40.0

49.8

7

32

7.1

9

20

53.8

9

38

4.6

180.9

265.8

195.9

25.84

12.14

14.41

1.6

1.6

1.6

7

31

24.24

9

20

10.54

9

37

17.81

8

8

1851. March. 15

$a = -0.22$

$b = -0.14$

$c = +0.10$

Ill. West

C.W.T.

S. Canai			Moon TO			α Leonis			γ Leonis		
		25.2			32.8			40.			57.4
		40.0			47.3			54.1			12.0
		54.7			2.1			8.0			26.8
		9.2			16.9			22.0			41.6
		23.7			31.4			36.1			56.2
		38.0			46.2			50.3			11.0
8	36	52.5 ³	29	1.0	10	1	4.1	10	12	25.3	
		243.8 ⁴			177.7			214.6			236.2
		9.0 ⁴			16.81			22.08 ⁹			41.47
		1.6			1.6			1.6			1.6
8	36	7.41 ⁴	28	15.21	10	0	20.48 ⁹	10	11	39.87	

1851. March. 14.5-

$a = -0.22$

$b = -0.14$

$c = +0.10$

Ill. Merc

C. v. 7.

Aguilar

44.0

58.0

11.8

25.8

39.7

53.2

7.1

239.6

25.65

-2.6

24.05

1851. March. 21

$a = -0.20$

$b = -0.14$

$c = +0.10$

C. W. M.

Jlt West

C. W. M.		" "		" "		" "		" "		" "	
2 Tauri		β Orionis		δ Orionis		2 Orionis		α Orionis			
	20.3		21.9		23.4		38.9		4.9		
+16° 12'	34.9	-8° 23'	36.0	-0° 25'	37.2	-1° 18'	32.8	+7° 22'	19.4		
	49.0		49.9		50.9		6.4		33.5		
	3.4		3.8		4.9		20.4		47.4		
	18.0		17.6		18.4		33.9		1.4		
	31.9		31.5		32.3		47.9		14.9		
4 28	46.25	8	45.05	25	45.95	30	1.45	48	29.0		
	203.7		205.7		213.0		201.7		150.5		
	3.39		3.67		4.71		20.24		47.21		
	-2		-2		-2		-2		-2		
4 28	1.395	8	1.675	25	2.715	29	18.245	47	45.21		

Prob. Error one unit
 ± 0.096

851. March. 21

$a = -0.20$

$b = -0.14$

$c = +0.10$

C. W. 7.

Let. West

δ Gemini

α Canis Min

ϵ Hydra

9.4

30.0

53.1

422° 15

24.5 +5 36

43.5 +6° 58

7.0

39.4

57.4

20.4

54.

11.3

34.3

9.

25.0

48.0

23.8

38.5

2.1

7 12

38.57 32

52.3 8 40

16.0

196.6

258.3

180.9

54.08

11.19

34.41

-2

-2

-2

7 11

52.08 7 32

9.19 8 39

32.41

1851. March. 24/22

$$a = -0.20$$

$$b = -0.14$$

$$c = +0.10$$

Ill. Wren

C. W. 7.

δ Aquilae	δ Aquilae	γ Aquilae	ϵ Aquilae	α Regasi
30.6	57.2	7.4	28.0	—
+13° 39'	+2° 49'	+10° 15'	+8° 29'	+14° 24'
45.1	11.0	21.4	42.1	58.2 29.9
59.1	24.4	35.5	56.2	58.3 44.1
13.0	38.5	49.4	60.2	58.5 58.5
27.0	52.5	3.6	24.2	58.2 12.4
41.6	6.1	17.6	37.7	57.8 26.2
18 59 55.6	19 19 19.7	40 31.7	19 44 51.8	—
272.0	209.4	166.6	250.2	—
13.14	38.48	49.51	12.03	58.20
-2	-2	-2	-2	-2
18 59 11.14	19 18 36.48	39 47.51	19 44 8.03	56.20

7651. March. 22

$a = -0.20$

$b = -0.14$

$c = +0.10$

llt. Wm

C. W. 7.

α Tauri

β Gemini

α Canis Min

17.2

6.4

26.

+16° 12

31.5

+22° 11

21.5

+5° 36

40.4

45.4

36.4

54.4

0.1

51.7

8.0

14.3

6.2

21.9

28.4

21.2

36.0

4 28

42.8

7 12

35.4

7 32

49.5

179.7

178.8

236.2

59.96

51.26

7.17

-2

-2

-2

4 28

57.96

7 11

49.26

7 32

5.17

Prob. Error one Wm

± 0.113

1851. March. 24

$a = -0.18$

$b = -0.14$

$c = +0.09$

C. W. 7.			ll. W. 8			ll. W. 8			ll. W. 8			ll. W. 8		
α Beti			α Lauri			β Orionis			δ Orionis			ϵ Orionis		
		19.4			10.9			12.4			14.0			29.5
+3°	30	33.5	+16°	12	25.5	-8°	23	26.5	-0°	25	28.0	-1°	18	43.4
		47.2			39.5			40.6			42.2			57.0
		1.2			54.1			54.7			55.9			11.0
		15.1			8.0			8.0			9.0			24.6
		28.1			22.5			22.1			23.2			38.6
2	55	42.1	4	28	36.4	5	8	36.3	5	25	36.7	5	29	52.0
		187.0			196.4			200.6			209.0			256.1
		1.00			53.84			54.37			55.57			10.87
		2			2			-2			-2			-2
2	54	59.00	4	28	51.84	5	7	52.37	5	24	53.57	5	29	8.87

Prob. Error on wire
 ± 0.126

1851. March. 24

 $a = -0.18$ $b = -0.14$ $c = +0.09$

C. W. S.

Ill. West

Orionis

Leonis

29.5

16.5

43.4

+12

42

30.4

57.0

44.5

11.0

59.3

24.6

12.4

38.6

27.3

52.0

10

1

41.2

256.1

231.6

10.87

58.80

-2

-2

8.87

10

0

56.80

1851, March. 24/28

$a = -0.18$

$b = -0.14$

$c = +0.09$

Ill. West

E. W. 7.

 γ Aquilar α Aquilar

59.0

19.1

 $+10^{\circ} 15'$

12.6

 $+8^{\circ}$

29

33.2

26.4

47.3

40.4

1.0

54.5

14.5

8.4

28.5

19 40

22.5

19 44

42.6

223.8

186.2

40.54

0.88

-2

-2

19 39

38.54

19 43

58.88

4851, March 25

$a = -0.17$

$b = -0.14$

$c = +0.08$

C. W. 7.

J. L. West

 β Orionis δ Orionis ϵ Orionis α Orionis

10.4

11.5

27.

53.5

24.0

-0° 25'

25.

-1° 18'

40.6

+7° 22'

7.4

37.5

38.4

54.6

21.4

51.4

52.4

8.0

35.0

5.5

6.0

22.5

49.1

19.8

20.

35.6

3.0

33.0

5° 25'

33.5

5° 29'

49.7

5° 48'

16.6

181.6

186.8

238.0

186.0

51.66

52.40

8.28

35.14

-2

-2

-2

-2

49.665

24 50.40

5° 29'

6.28

5° 47'

33.14

1851. March. 25/26

$a = -0.17$
 $b = -0.14$
 $c = +0.08$

Alt. West

C. W. 7.

γ Aquilae

"

α Aquilae

"

α Pegasi

		54.6			14.6			2.8
+10°	15	8.5	+8°	29	28.8	+14°	24	16.5
		22.5			42.5			30.1
		36.8			56.6			45.0
		50.7			10.5			59.0
		4.3			24.			13.0
19	40	18.	19	44	38.2	22	58	27.8
		185.4			215.2			193.9
		36.48			56.45			44.71
		-2			-2			-2
19	39	34.48	19	43	54.45	22	57	42.71

1851. March 26

$a = -0.17$

$b = -0.14$

$c = +0.08$

C. N. 7.

J. L. West

" Orionis

" Hydræ

		5.0			49.0			36.0	
		19.6	+7°	22	3.4	+6°	58	50.0	
		33.2			17.0			4.2	
		47.1			31.0			18.3	
		1.2			44.6			32.0	
		14.8			58.6			45.6	
5	8	28.6	5	48	12.3	8	39	58.7	5
		149.5			215.3			245.8	
		47.07			30.71			17.97	
		-2			2			-2	
5	7	45.07	5	47	28.71	8	39	15.97	5

1851. March, 26

 $a = -0.17$ $b = -0.14$ $c = +0.08$

Ill. Wren

O. W. 7.			" "			" "			" "			" "		
β Tauri			δ Orionis			ϵ Orionis			α Orionis			α Canis Maj		
		12.6			49.4			5.1			32.0			59.2
+28°	29	28.3	-0°	21	3.5	-1°	18	18.8	+7°	22	46.0	-16°	31	13.7
		44.0			17.1			32.5			59.8			28.0
		59.7			30.8			46.5			13.7			42.6
		15.1			44.5			0.3			27.4			56.7
		30.8			58.2			13.8			41.1			11.0
5	17	46.4	5	25	12.0	5	29	27.4	5	47	54.8	5	39	25.3
		236.9			215.5			144.4			274.8			236.5
		59.56			30.78			46.34			13.54			42.36
		-0			-0			0			-0			-0
5	16	59.56	5	24	30.78	5	28	46.34	5	47	13.54	5	38	42.36

1851. March. 27.

 $a = -0.16$ $b = -0.14$ $c = +0.08$

C. W. 7.

Ill. West

2 Hydraz

" Hydraz

32.5

55.5

46.4

-8°

1

9.8

59.8

23.5

14.1

37.5

28.1

51.1

42.2

51.0

55.79

21

19.1

278.8

201.5

14.11

37.29

-2

2

12.119

20

35.29

1851. March. 28

$a = -0.15$

$b = -0.14$

$c = +0.08$

ll. West

C. W. 7.		" "		" "		" "		" "	
α Aurigae		β Orionis		β Tauri		δ Orionis		α Leporis	
	49.9				13.6		50.8		34.2
+45° 50	9.7	-8° 23		-8° 23	29.2	-0° 25	4.5	-17° 56	48.9
	29.4		30.8 16.9		44.9		18.2		3.3
	49.0		30.8 30.8		0.7		31.9		17.7
	8.6		30.9 44.8		16.1		45.5		32.1
	28.4		30.3 58.1		31.9		59.3		46.5
5 6	47.9	5 8	30.4 12.0	5 17	47.5	5 25	13.0	5 27	0.9
	222.9				183.9		223.2		183.6
	48.98		30.64		0.56		31.88		17.65
	0		-0		-0		-0		-0
5 5	48.98	5 7	30.64	5 17	0.56	5 24	31.88	5 26	17.65

1851. March. 28

$a = -0.15$

$b = -0.14$

$c = +0.08$

J. H. West

C. W. 7.

 ϵ Orionis α Orionis ϵ Hydrae α Hydrae

6.3

33.0

20.5

43.7

-1° 18'

20.0

+7° 22'

47.0

+6° 58'

34.1

-8° 1'

57.6

33.4

0.6

48.4

11.4

47.5

14.4

2.1

25.5

1.2

28.3

16.0

39.2

13.0

42.2

29.8

53.0

5 29

28.5

5

47

56.0

8

39

43.6

9

21

7.0

149.9

221.5

194.9

237.4

47.13

14.50

2.13

25.34

-0

0

-0

-0

5 29

47.13

5

47

14.50

8

39

2.13

9

20

25.34

1851. March. 28/29

$a = -0.15$

$b = -0.14$

$c = +0.08$

C. M. 7.

Ill. West

α Aquilae	α Cygni	α Pegasi
5.5	39.0	—
+ 8° 29' 19.5	+ 11° 41' 58.4	+ 14° 24' 35.5 7.2
33.6	17.6	35.5 21.3
47.2	37.0	35.8 35.8
1.0	56.5	35.8 58.0
15.0	16.0	35.9 4.3
19 44 29.3	20 37 35.3	22 58 35.5 18.0
151.1	259.8	
47.30	37.11	35.67
- 2	- 2	- 2
19 43 45.30	20 36 35.11	22 57 33.67

1851. March. 29

$a = -0.14$

$b = -0.14$

$c = +0.08$

Ill. Wm

C. W. S.

♂ Orion's

♂ Orion's

57.4

13.6

9.9

27.6

25.0 -1° 18'

40.6

38.8

54.0

52.4

8.1

6.2

22.3

20.3

35.8

210.0

202.0

38.57

54.57

-2

-2

36.57

52.57

1851, March, 31

$a = -0.13$

$b = -0.14$

$c = +0.07$

Jelly West

C. W. 7.

α Leporis	ϵ Orionis	α Tauri	β Orionis	β Tauri
—	7.5	48.0	49.9	14.6
-17° 56' 19.3 50.5	21.5	2.4	3.8	30.3
19.4 5.0 -1° 18'	35.7 +16 12	16.7 -8' 23	17.8 +28° 29	45.9
19.5 19.5	49.1	31.0	31.4	1.3
19.0 33.5	3.3	45.3	45.3	17.1
19.1 48.0	16.6	59.7	59.2	32.6
5 27 19.3 2.5 5	29 30.0 4 28	13.9 5 8	13.0 5 17	49.2
	162.7	217.0	220.4	191.0
19.27	48.95	31.00	31.49	1.57
-2	-2	-0	-0	-2
5 26 17.27 5	28 46.95 4 27	31.00 5 7	31.49 5 16	59.57

Apr. 7/3, 1851

$a = -0.10$

$b = -0.14$

$c = +0.07$

C. W. 7.

Ill. West

 α Andromeda

4.1

19.5

31.2

50.8

6.2

22.0

0 1 37.4

175.2

50.74

0.

0 0 20.74

1851. Apr. 3.

Ill. Min

$$a = -0.09$$

$$b = -0.14$$

$$c = +0.07$$

C. W. 7.

 β Orionis

43.7

57.6

11.1

25.0

39.1

55.2

6.8

236.5

25.21

-2

23.21

Apr. $\frac{3}{4}$ 1851.

$$a = -0.09$$

$$b = -0.14$$

$$c = +0.07$$

Ill. West

C. W. 7.

 α Argular α Pegasi

50.2 37.5

4.3 57.5

17.5 6.2

31.4 20.2

48.5 34.2

59.7 48.5

19 44 13.8 22 58 2.1

221.4 200.6

31.63 20.08

2 -2

19 43 29.63 22 57 18.08

Apr. 4. 1857

ell. west

$a = -0.08$

$b = -0.14$

$c = +0.07$

C. N. 7.

 β Orionis

"

 β Tauri

40.1

4.6

54.1

20.0

8.3

36.1

21.7

51.5

35.6

7.0

49.5

23.0

5- 8

3.1

5-

17

38.2

212.4

180.4

21.77

51.49

2

-2

5- 7

19.77

5-

16

49.49

Apr. 4. 1851

 $a = -0.08$
 $b = -0.14$
 $c = +0.07$

Ill. West

C. W. T.		S Orionis		S Orionis		α Orionis		α Orionis		α Leonis	
	23	41.5		27	57.0		46	23.5			43.5
		53.5			11.0			37.5			57.5
		9.0			24.6			51.5			11.4
		22.5			38.8			5.4			25.4
		36.5			52.0			19.4			39.5
		50.3			5.6			33.5			54.2
5	25	3.6	5	29	19.6	5	47	47.2	10	1	8.0
		218.9			208.6			218.0			239.5
		22.70			38.37			5.43			25.64
		-2			-2			-2			-2
5	24	20.70	5	28	36.37	5	47	3.43	10	a	23.64

