

1855 photo, p. 03, 1855

KG
11365
90

B.19

No. 19.

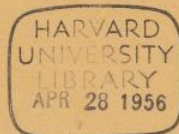
Reduction of Transits
Jan. 30. 1855 to May 6. 1855

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

KG 11365.90



KG-11365.90



1855. Jan. 30

$$a = -0.49$$

$$b = -0.12$$

$$c = -0.18$$

Ill. ~~Star~~

J. H. L.

ϵ Geminor	δ Geminor	Moon TO	α^2 Geminor	β Geminor	α
27.8	59.0	4.0	—	52.3	
42.9	13.7	19.3	+02 12 —	8.0	
58.1	28.5	35.5	33.56 17.2	23.6	
13.2	43.0	51.0	33.55 33.5	39.0	
27.8	57.9	6.8	33.58 49.8	54.8	
42.8	12.5	22.4	33.48 5.9	10.2	
6 35 59.0	6 56 27.2	7 24 38.2	7 26 33.44 22.2	7 37 26.0	5
27.2.6	241.8	177.3	26	214.0	
92.6	301.8	357.3			
13.23	43.11	51.04	33.52	39.14	
0	0	0	0	0	
6 35 13.23	6 56 43.11	7 23 51.04	7 25 33.52	7 36 39.14	5

Jan. 31

$a = -0.49$

$b = -0.13$

$c = -0.19$

J. H. S.

All. East

	α Aurigae	β Orionis	β Tauri	δ Orionis	α Leporis
3	12.3	—	33.5	7.9	—
0	31.2	22	48.8	21.3	-17 56 33.18 4.3
6	51.7	—	4.7	34.9	33.06 18.6
0	11.6	—	20.3	48.7	32.95 32.9
8	31.4	47.13 4.0	36.0	2.5	32.97 47.4
3	51.0	46.97 14.7	51.5	16.2	33.07 1.9
0	5 7 11.0	5 8 47.09 29.8	5 18 7.3	5 25 29.9	5 27 32.83 16.2
0	200.2		202.1	161.3	
14	11.46	47.06	20.30	48.76	33.01
	0	0	0	0	0
14	5 6 11.46	5 7 47.06	5 17 20.30	5 24 48.76	5 26 33.01

1855. Jan. 31.

$$a = -0.49$$

$$b = -0.13$$

$$c = -0.19$$

All. E an

N. H. S.

ε Orionis

α Columbae

α Orionis

γ Draconis s.p.

-1° 18'	426	50.8	47.5	50.6	-	
Two first	4.15	4.1	3.9	4.5	+51° 30'	24.87 40.8
with last	4.27	18.0	20.5	18.3		24.55 2.5
	4.17	31.6	37.2	32.0		24.43 24.5
5 29	4.23	41.5	53.8	46.0		24.60 46.7
			10.3	59.8		24.67 8.8
	5	35	27.1	48	13.9	54 24.61 30.7
			200.3	224.9		
	4.22		37.19	32.13		24.62
	0		0	0		0
5 29	4.22	5	34	37.19	5	47 32.13 53 24.62

Jan 31.

L.H.S.

Ill. Jan

p. 8 Ursa Min. α Canis Maj

					15.7
86	35	41			29.8
					44.3
6	19	2.8	3.6		58.3
					13.0
					27.2
			6	39	41.8
					230.1
	19	2.80			58.73
		0			0
6	19	2.80	6	38	58.73

1855. Feb. 1/2

$$a = -0.48$$

$$b = -0.14$$

$$c = -0.19$$

M. Ear

W.C.B.

 γ Draconis α Lyrae

+51 30

-

+38

39

13.0837.9

25.60 3.5

13.1255.5

25.3725.3

13.0613.0

25.6547.7

13.1230.7

25.639.7

13.1848.3

17 5425.6231.9

18

3312.97 5.8

25.57

13.09

0

0

17 53

25.57

18

32

13.09

1855. Feb. 13.

$a = -0.48$

$b = -0.15$

$c = -0.20$

"

Ill. East

"

"

W. C. B.

 γ Draconis α Lyrae α Cygni α Scorpii

57° 30'

38° 39'

42.8

58.2

1.0

13.3

20.9

28.9

40.3

44.0

59.8

59.3

19.0

14.7

38.8

30.3

222.6

248.7

26.20 4.1

26.17 26.1

26.15 48.2

26.13 10.2

54 26.22 32.5

26.17

0

53 26.17

13.58 48.7

33 13.97 6.8

13.77

0

32 13.77

20

37

20

36

40.37

0

40.37

16

21

16

20

44.10

0

44.10

1855. Feb. 3

$a = -0.48$

$b = -0.15$

$c = -0.20$

All. East

P.S.C.

α Canis Maj	ϵ Canis Maj	δ Gemini	α Gemini	α Canis Min
—	23.8	58.0	46.9	16.0
-16 31 —	39.4	12.9	2.9	30.0
0.15 45.8	58.0	27.1	19.0	43.4
0.05 0.0	10.8	42.3	38.2	57.4
0.48 14.8	26.6	57.2	51.9	11.3
0.48 29.1	42.1	12.1	7.9	28.0
6 39 42.0	63 57.9	12 27.1	25 24.3	32 38.9
	255.3	227.1	188.1	222.0
0.00	10.76	42.44	35.44	57.43
0	0	0	0	0
6 39 0.00	63 10.76	11 42.44	24 35.44	31 57.43

Feb. 3

Old Case

P.S. C.

β Gemini

15 Argus

1.0			54.5			52.7	
0.0			9.9			7.0	
3.4			28.2			22.1	
7.4			41.0			37.2	
1.3			56.9			52.3	
1.0			12.4			7.3	
3.9	7	37	29.0	8	2	22.5	
1.0			227.9			201.1	
43			41.13			37.30	
			0			0	
43	7	36	41.13	8	1	37.30	

1855. Feb. 5

$$a = - 0.47$$

$$b = - 0.17$$

$$c = - 0.21$$

M. Fane

W.C.B.

Polaris

 α Arietis

39 2.5 29.8

48 5.2 44.8

57 1.8 59.5

6 3.0 14.2

14 59.7 29.5

24 0.0 44.1

1 33 3.8 1 59 59.3

281.2

2.29 14.46

0 0

1 6 2.29 1 59 14.46

Feb. 6

$$a = -0.47$$

$$b = -0.17$$

$$c = -0.21$$

J.L. Ham

N.C.B.

P.S.C.

 α Aucti γ Ceti

30.9

22.0

45.8

35.9

0.7

49.3

15.3

2.4

30.1

17.0

44.9

30.5

2

0

0.22

36

44.8

167.9

202.9

15.41

3.41

0

0

1

59

15.41

2

36

3.41

Feb. 10. 1855

$$a = - 0.46$$

$$b = - 0.19$$

$$c = - 0.22$$

W. C. B.		D. S. C.		H. E. C.		W. C. B.		D. S. C.	
α Lyrae		α Aquilae		α Cygni		α Pumi		α Tauri	
18.48	25.6	—		47.4		14.2		11.5	
+ 38° 39'	18.30	+ 8° 29'	59.08 31.3	6.8		34.8		25.8	
18.32	18.22 0.6	59.11	45.2	26.0	5	55.8		40.0	
—		59.25	59.2	45.2		16.8		54.3	
—		59.02	12.9	4.5		38.5		8.7	
—		59.06	26.8	23.8		58.9		22.8	
15	— 19	44 59.08	40.8	43.2	3	20.4	4	37.2	5
2 115		216.2		196.9		239.4		200.3	
0.85	18.33	59.10		45.27		17.06		54.33	
0		0		0		0		0	
18.32	18.33 19	43	59.10	45.27	3	14	17.06 4	27	54.33 5

Feb. 10

M.C.B.

Ill. Carl

1855phae.pro

H.C.B.				J.C.B.				" "				" "							
α Aurigae				β Orionis				β Tauri				δ Orionis				α Leporis			
			18.0				-				39.2				13.3				51.6
			37.7	-8.22			-				54.8				27.0				9.9
			57.5			52.91	39.0				10.4				40.8				24.5
			17.1			52.85	52.8				26.2				54.4				38.7
			37.2			52.93	6.8				41.9				8.1				53.2
			56.6			52.97	20.7				57.4				21.9				7.6
2	5	7	16.75	8	52.89	34.6	5	18	13.2	5	28	31.9	5	27	22.1				
3			240.8								243.0				201.4				211.6
33			17.26			52.91					26.14				54.49				38.80
			0			0					0				0				0
33	5	6	17.26	5	7	52.91	5	17	26.14	5	24	54.49	5	26	38.80				

855. Feb. 10.

$$a = -0.46$$

$$b = -0.19$$

$$c = -0.22$$

M. E. au

M. C. B.

 ϵ Orionis ϵ Leonis

	—			11.0	
-1	18	—		25.9	
	—			40.9	
	9.85	9.8		55.9	
	9.97	23.7		11.4	
	9.87	37.3		28.9	
5	29	9.93	51.2	9	38
				41.4	
				212.4	
		9.90		56.04	
		0		0	
5	29	9.90	9	37	56.04

Feb. 14/12

$a = -0.45$

$b = -0.19$

$c = -0.22$

W. C. B.

M. San

α ophiuchi		Moon 170		γ Draconis	
	48.0		42.9		25.7
	2.0		58.7		47.5
	16.1		14.9		10.0
	30.2		30.6		31.7
	44.1		46.5		54.2
	58.0		2.3		15.6
17 29	12.5	17 35	18.5	17 54	38.1
	210.9		214.4		222.8
	30.13		30.63		31.83
	0		0		0
17 28	30.13	17 34	30.63	17 53	31.83

1855. Feb. 12.

$$a = -0.45$$

$$b = -0.19$$

$$c = -0.22$$

- Ill. Ean

W. C. B.

 δ Orionis ϵ Orionis α Orionis

14.2

29.7

57.2

27.8

43.3

10.9

41.7

57.0

24.8

55.2

10.7

38.7

9.0

24.4

52.8

22.7

38.2

6.2

5

25

36.6

5

29

52.0

5

48

20.3

207.3

258.3

210.7

55.33

10.76

38.67

0

0

0

5

24

55.33

5

29

10.76

5

47

38.67

Feb. 14/13

$a = -0.45$

$b = -0.19$

$c = -0.22$

Ill. East

W.C. B.

 α Herculis

37.9

51.8

6.1

20.3

34.7

48.9

17 9 3.0

203.1

20.44

0

17 8 20.44

1855. Feb. 18

$$a = -0.43$$

$$b = -0.16$$

$$c = -0.22$$

M. Earl

R. T. B.

R. T. B.

 α Aurigae ϵ Orionis α Orionis

19.26 20.2

30.6

20.2

+45 57 19.24 39.8

44.3

39.8

19.15 59.4

58.0

59.4

19.26 19.2

12.0

19.2

19.29 39.0

29.7

39.0

19.32 58.7

39.4

58.7

5 7 —

5 29

53.25

7

18.4

263.2

254.7

19.25

11.89

19.24

0

0

0

55 6

19.25

5

29

11.89

5

6

19.24

1855, Feb. 20

$a = -0.43$

$b = -0.15$

$c = -0.21$

M. E. Carr

M.C.B.		α Lyrae		δ Aquilae		σ Aquilae		α Aquilae						
Moon's π^0														
	15.6		28.7		22.0		49.8		20.3					
	29.7		46.0		36.2		3.4		34.1					
	43.9		3.8		50.3		17.0		48.0					
	58.0		21.4		4.4		30.9		1.9					
	12.2		39.1		18.7		44.8		15.9					
	26.3		56.7		32.7		58.2		29.8					
1	42	40.8	18	33	14.2	18	59	47.0	19	19	12.3	19	44	43.9
	226.1				209.9			211.3			216.4			193.9
	406.5				149.9			31.3						13.9
	58.07				21.41			4.47			30.91			1.99
	0				0			0			0			0
1	41	58.07	18	32	21.41	18	59	4.47	19	18	30.91	19	44	1.99

855 Feb. 21

$$a = -0.43$$

$$b = -0.15$$

$$c = -0.21$$

Ill. East

Feb 22

T. H. S.

1855phae. p.

Moon TO		γ Ceti		α Ceti		α Persei		α Arietis							
	2.5		26.6		21.2		16.0		35.7						
	17.0		40.0		34.9		37.0		50.3						
	31.6		53.8		48.8		58.1		66.2						
	46.1		7.7		2.5		19.0		20.3						
	0.5		21.5		16.3		40.2		35.1						
	15.0		35.0		29.9		1.2		50.0						
2	34	29.6	2	36	49.1	2	55	45.4	3	15	22.3	2	0	5.0	3
		142.3			233.7			199.0			193.8			201.6	
		322.3			53.7			19.0			133.8			141.6	
		46.04			7.67			2.71			19.11			20.23	
		0			0			0			0			0	
2	33	46.04	2	36	7.67	2	55	2.71	3	14	19.11	1	59	20.23	3

Feb. 23

$a = -0.43$

$b = -0.19$

$c = -0.20$

M.C. B.

All East

	γ Tauri	γ' Eridani	A' Tauri	Moon TO	α Tauri
7	27.9	54.7	44.1	12.0	14.8
3	42.9	8.7	58.8	27.2	28.4
2	58.0	22.9	13.6	43.0	42.8
3	13.0	36.8	28.2	58.0	57.4
1	28.0	51.1	43.2	13.5	11.6
0	42.9	5.2	58.0	28.8	25.8
0	3 39 58.0	3 52 19.8	3 57 13.0	4 20 44.2	4 28 40.4
6	270.7	199.2	258.9	226.7	221.2
6	90.7	259.2	198.9	406.7	401.2
23	12.96	37.03	28.41	58.10	57.31
	0	0	0	0	0
23	3 39 12.96	3 51 37.03	3 56 28.41	4 19 58.10	4 27 57.31

855, Feb. 23

$$a = -0.43$$

$$b = -0.14$$

$$c = -0.20$$

H. Ear

W.C.B.

"

Saturn I O

Saturn II O

18.1

19.3

32.7

34.0

47.2

48.5

1.8

3.1

16.6

17.8

31.1

32.4

4 31

48.9

4

31

47.0

193.4

202.1

1.91

3.16

0

0

4 31

1.91

4

31

3.16

Feb. 25/26

$a = -0.43$

$b = -0.12$

$c = -0.20$

Ill. East

W.C. Or.

 α Ophiuchi

51.7

6.7

19.7

33.8

47.9

1.9

17 29 16.1

176.8

33.83

0

17 28 33.83

1855. Feb. 24

$a = -0.43$

$b = -0.13$

$c = -0.20$

Ill. Ear

N.C. B.

2 Jauri

" 2 Jauri

Saturn 10

Saturn 110

" Moon 10

47.0

14.6

25.5

26.8

31.8

1.2

28.8

39.9

41.1

21.1

15.5

41.1

54.4

53.9

37.0

30.2

57.3

9.0

10.2

52.3

44.8

11.8

23.9

25.0

8.2

59.4

26.0

38.2

39.8

23.8

14.1

4

28

40.6

4

31

53.3

4

31

54.7

5

15

39.5

5

212.3

220.2

244.2

253.5

187.7

400.2

367.7

30.33

57.17

9.17

10.50

52.53

0

0

0

0

0

4 20 30.33 4 27 57.17 4 31 9.17 4 31 10.50 5 14 52.53 5

Feb. 24

Oll. Ear

W.C.P.

 β Tauri

"

 δ Tauri

42.5

36.5

58.0

51.0

13.5

5.8

29.2

20.2

45.0

35.2

0.3

49.8

5 18

16.2

5

30

4.6

204.7

203.1

143.1

29.24

20.44

0

0

5 17

29.24

5

29

20.44

1855. Feb. 27.

P.S. Cobs.

Bl. Eau

$$a = - 0.43$$

$$b = - 0.11$$

$$c = - 0.20$$

α Ceti	α Pumi	γ Tauri	γ Eridani	α Tauri	
—	—	—	55.9	151.7	
+3° 31' 4.03 36.5	+49° 20' —	+23° 39' 14.19 44.2	9.9	29.9	
4.08 50.3	20.91 59.8	14.12 59.1	24.2	44.1	
4.15 4.1	20.57 20.5	14.35 14.3	38.3	58.2	
4.05 17.8	20.44 41.5	14.32 29.3	52.4	12.9	
4.02 31.5	20.70 2.8	14.15 44.1	6.6	27.1	
2 55 4.26 45.6 3	15 20.72 4.1 3	39 14.45 58.5 3	52 20.8 4	28 41.7	8
59	360	154	206.1	229.6	
09			148.1	409.6	
4.12	20.68	14.26	21.16	58.51	
0	0	0	38.01	0	
09			21.16		
2 55 4.26 3	14 20.68 3	39 14.26 3	51 38.01 4	27 58.51	8

Feb. 27

P. L. C.

Ill. East

Moon 10

p of Spot Count

2 Ws Maj

7		14.9			1.6			37.8
9		30.2			16.8			58.2
1		48.9			32.4			19.0
2		1.1			47.9			39.9
9		17.0			3.4			0.9
1		32.5			19.8			22.0
7	8	0	48.5	8	2	34.8	8	50
6			190.5			156.7		220.8
6			10.5			336.7		240.1
51			1.50			48.10		40.11
			0			0		0
51	8	0	1.50	8	1	48.10	8	49
								40.11

Feb. 28, 1855

$a = -0.42$

$b = -0.11$

$c = -0.20$

P. J. Cotts.

Ill. Ear

1855phae. p

P. S. Colls.			"			"			"			"			
Moon 10			Spd Reiner			5. Cancri			2 Leonis			11 Leonis			
		29.1			30.8			40.4			5.5			15.5	
		43.9			45.8			55.0			20.3			30.4	
		59.4			1.0			9.8			35.2			45.5	
		14.5			16.1			24.6			50.2			0.5	
		29.9			31.5			39.6			5.2			18.9	
		45.0			46.5			54.4			20.2			30.9	
8	53	0.3	8	55	2.0	9	2	9.4	9	24	35.1	9	38	46.1	9
		222.1			173.7			283.2			172.1			184.8	
		102.1			113.7			173.2			352.1			4.8	
		14.59			16.24			24.74			50.30			0.69	
		0			0			0			0			0	
8	52	14.59	8	54	16.24	9	1	24.74	9	23	50.30	9	28	0.69	9

Feb. 28

L.C. Fare

P.J.C.

 α Leonis

5			8.6
4			23.7
5			39.1
5			54.5
9			9.9
9			25.2
1	9	45	40.6
8			201.6
8			381.6
9			54.51
			0
9	9	44	54.51

1855. March 1.

W.C.B.

W. East

$$a = -0.39$$

$$b = -0.09$$

$$c = -0.20$$

μ Gemino

		21.7			33.3			21.66	36.9		4.6		35.4
		35.4			46.9	+22°	35°	27.55	50.9		18.4		49.1
		48.9			0.8	Not Reduced			5.0		32.0		2.7
		2.8			14.4				18.9		41.9		16.1
		16.7			28.2	6	15		33.3		59.7		30.3
		30.4			42.1						13.3		44.0
5	58	44.6	6	9	51.9			6	19	26.9	6	23	58.0
		200.5			221.6					200.8			236.0
		20.5			101.6					320.8			116.0
		2.93			14.52					41.83			16.57
		0			0					0			0
5	58	2.93	6	9	14.52			6	18	41.83	6	23	16.57

March 1.

Ill. Ear

N. C. B.

[illegible]

1855. March. 1. X

$a = -0.39$

$b = -0.09$

$c = -0.20$

Ill. Ear

W.C.B.		"		"		"		"	
β Gemini		Cancer		λ Leonis		Moon 10		γ Leonis	
2.8		40.2		5.4		26.1		—	
18.4		55.0		20.6		41.0	+20' 34"	—	
33.9		9.9		35.2		55.7		—	
49.6		24.8		50.1		10.6		—	
5.1		39.6		5.1		25.3		22.34 37.0	
20.9		54.7		20.1		40.1		23.00 52.3	
7 37 36.0	9 2	9.7	9 24	35.5	9 42	55.0	10 13	22.27 6.3	6
166.7		233.9		172.0		253.8			
346.7		173.9		352.0		73.8			
49.53		24.84	2	50.29		10.54		22.54	
0		0		0		0		0	
7 26 49.53	9 1	24.84	9 23	50.29	9 42	10.54	10 12	22.54	6

* Collimation was altered Mar 2.

1855, March, 6

$a = -0.28$

$b = -0.02$

$c = -0.27$

Ill. East

P. Obs.

 μ Gemino ϵ Canis Maj δ Gemino

51.0

33.4

7.8

51.3

48.6

22.1

20.0

4.1

36.7

35.1

19.8

51.8

49.4

34.9

6.1

4.8

51.4

21.6

6 15

19.76

54

6.8

7

12

36.3

185.3

199.0

182.4

245.3

139.0

362.4

35.04

19.86

51.77

0

0

0

6 14

35.046

53

19.86

7

11

51.77

1855. March. 12

$a = -0.39$

$b = -0.08$

$c = -0.25$

D.S.C.

Ill. E an

 α Aurigae β Tauri δ Orionis ϵ Orionis

25.1

46.2

20.1

35.5

44.1

1.1

33.3

49.0

3.9

16.8

47.1

2.4

23.3

32.5

0.8

16.2

42.5

47.4

14.1

29.2

3.2

3.9

28.5

44.0

22.75

18

19.15

25

42.15

29

57.4

164.8

167.0

186.0

233.7

23.54

32.43

0.86

16.24

0

0

0

0

23.545

17

32.435

25

0.865

29

16.24

March 12,

P.M.C.

H. Paul

Procyon

" β Geminor

27.5 52.23 6.0

40.9 +28° 22 52.11 20.9

54.8 52.11 36.5

8.3 52.03 52.0

21.7 52.21 7.2

36.2 52.18 23.5

7 32 50.0 7 37 —

239.4

8.49 52.14

0 0

7 32 8.497 36 52.14

1855. March, 16

$a = -0.38$
 $b = -0.06$
 $c = -0.27$

Ill. East

P.S.C

1855phae. p

P. S. C		"		"		"		"			
α Tauri		α Aurigae		β Tauri		δ Orionis		ϵ Orionis			
	18.8		25.4		46.7		20.6		36.2		
	32.4		44.6		1.8		34.0		49.4		
	46.9		4.3		17.2		47.6		3.0		
	1.1		24.2		32.9		1.2		16.9		
	14.9		43.0		47.9		14.6		20.0		
	29.9		3.5		4.3		29.0		44.5		
4	28	44.45	7	23.05	19	19.95	25	42.65	29	58.1	5
	188.4		168.0		170.7		189.6		238.1		
	1.20		24.00		32.96		1.37		16.87		
	0		0		0		0		0		
4	28	1.205	6	24.005	18	32.965	25	1.375	29	16.87	5

March 19, 1855.

$a = -0.37$

$b = -0.04$

$c = -0.28$

Ill. East

P.S.C.

 α Orionis ϵ Canis Maj δ Gemini

2		4.4		35.8		10.2
4		17.5		50.9		24.4
0		31.3		6.8		39.3
9		45.2		22.2		54.0
0		58.7		37.1		8.3
5		13.0		53.8		23.8
1	5 48	26.9 6	54	9.27	12	38.8
1		197.0		215.8		198.8
7		45.29		22.26		54.11
		0		0		0
7	5 47	45.29 6	53	22.26 7	11	54.11

1855. March. 27.

$a = -0.38$

$b = -0.06$

$c = -0.24$

D.S.C.

Ill. Ear

p Leonis

Hydral

2 Urs Maj

p Leonis

58.6

15.7

48.7

9.8

11.9

29.3

16.5

23.9

26.0

43.5

46.0

38.9

40.0

58.0

15.5

53.3

53.2

11.8

44.5

7.7

8.0

26.2

16.1

23.0

10 26

21.8

10

43

40.5

10

56

41.4

11

7

37.7

219.5

225.0

232.7

194.3

39.93

57.86

16.10

53.47

0

0

0

10 25

39.93

10

42

57.86

10

55

16.10

11

6

53.47

1855, March 28

$$a = -0.39$$

$$b = -0.07$$

$$c = -0.23$$

J. M. P.

Ill. East

γ Cancri	ϵ Hydrae	Moon	ϵ Leonis	α Leonis
—	53.7	40.8	—	7,9026.2
+21° 59' —	7.1	55.0	+24° 26' 6.16 36.0	+12° 40' 8.14 40.0
22.51 7.7	20.9	10.2	6.19 51.1	8.18 54.1
22.33 22.3	34.7	24.9	6.23 6.2	—
22.58 36.8	48.0	29.3	6.21 20.7	8.38 21.9
22.48 52.2	2.4	31.2	6.23 36.5	8.25 36.5
8 35 22.52 6.9	8 40 16.3 9	25 9.8 9	386.30 51.1	10 1 —
	183.1	235.2		
	243.1	175.2		
22.48	34.73	25.03	6.22	8.17
0	0	0	0	0
8 34 22.48	8 39 34.73 9	24 25.03 9	38 6.22 10	1 8.17

1855, March, 29,

$a = -0.39$

$b = -0.07$

$c = -0.22$

W.C.B.

Ill. East

α Canis Maj		γ Canis Maj		β Canis Min	α Leonis	Moon
31.3		37.8		8.5	26.3	8.9
44.9		32.8		23.6	40.0	22.7
59.3		8.3		39.1	54.0	37.4
13.8		23.9		54.9	8.0	52.0
27.4		39.0		9.9	21.5	6.0
42.3		51.6		26.2	36.3	21.2
6 39 56.8	6 54 11.0	7 37 41.6	10 1 50.2	10 12 35.9		
273.8	228.4	203.8	236.3	184.1		
95.8	168.4	383.8	56.3	364.1		
13.69	24.06	54.83	8.04	52.01		
0	0	0	0	0		
6 38 13.69	6 53 24.06	7 36 54.83	10 1 8.04	10 11 52.01		

1855. March 29.

M.C. Os.

J. H. Gane

S. D.

	407. 8. + 0° 33'	416. 9. + 0° 1'	424. 8. + 0° 4'	423. 7. 8. + 0° 4'	422. 7. + 0° 36'
9	1.98 21.3	13.7	57.1	9.0	17.1
7	1.86 34.4	26.8	10.7	22.5	30.6
4	2.03 48.3	40.7	24.3	36.2	44.3
0	8 0 2.03 2.0	54.3	38.1	49.9	58.0
0	—	7.6	81.2	2.8	11.2
2	—	21.8	5.7	17.3	25.7
9	— 8	7 35.1 8	16 19.5 8	19 21.0 8	23 39.2
1		200.4	206.6	168.7	226.5
1	1.98	54.34	38.09	49.81	58.07
1	0	0	0	0	0
1	8 0 1.98 8	6 54.34 8	15 38.09 8	18 49.81 8	22 58.07

March 29, 1885

N.C. B.

Ill. East

$$a = -0.39$$

$$b = -0.07$$

$$c = -0.22$$

$457.7. + 0^{\circ} 52'$	$454.8. + 0^{\circ} 87'$	$451.8. + 0^{\circ} 33'$	$457.8-9. + 0^{\circ} 23'$	$461.8. + 0^{\circ} 57'$	(46)
29.8	57.2	57.2	20.0	6.7	
48.2	9.8	10.5	33.3	20.0	
56.8	22.4	24.4	47.0	33.7	
10.7	37.3	38.0	0.8	47.3	
24.1	50.6	51.2	14.1	50.7	
38.1	4.9	5.6	28.4	14.9	
8 28 52.0 8	41 18.9 8	48 19.5 8	46 42.0 8	50 28.7 8	8
254.7	202.1	206.4	185.6	152.0	
10.67	37.46	38.01	0.80	47.43	
0	0	0	0	0	
8 28 10.67 8	40 37.46 8	40 38.01 8	46 0.80 8	49 47.42 8	8

March 29.

M.C.B.

Ill. Ear

	(468).6. + 0° 5'	471.8. + 0° 39'	478.8. + 0° 25'	479.8-9. + 0° 38'	486.8. + 0° 12'
	21.9	56.1	15.9	31.0	33.7
	35.0	9.4	29.0	44.0	47.0
	48.9	23.0	42.8	57.8	0.9
	2.4	36.8	56.7	11.6	14.1
	15.5	50.0	9.7	28.0	27.4
	30.0	4.4	24.0	39.1	41.9
8 55	43.7 9	1 18.0 9	7 37.8 9	11 52.9 9	15 55.4
	197.4	197.7	215.9	261.4	220.5
	2.49	36.81	56.56	11.63	14.36
	0	0	0	0	0
8 55	2.49 9	0 36.81 9	6 56.56 9	11 11.63 9	15 14.36

March, 29. 1855

n.e. 3

Ill. East

a = - 0.39
b = - 0.07
c = - 0.22

8.9. + 0° 27		λ Leonis (491). 8. + 0° 20		(492). 7. + 0° 23		δ Leonis		50
15.1	three first wires	55.63	55.6	17.8	46.3	21.2		
28.4	but:	55.61	10.0	31.0	59.5	39.9		
42.1	+ 23 36	55.82	25.9	44.8	13.1	50.9		
55.9	9 24	55.89	40.8	58.4	27.0	6.1		
9.0				11.7	40.2	20.9		
23.6				26.0	54.8	36.3		
9 22 37.0		9 31 39.8		36 8.2	9 38 51.1	9		9
211.1		229.5		249.1	222.4			
55.87		55.74		58.50	27.01	6.06		
0		0		0	0	0		
9 21 55.87	9 23 55.74	9 30 58.50	9 35 27.01	9 38 6.06	9			9

March 29

W.C.B.

Ill. Ear

	506.8. + 0° 27	506.8. + 0° 8	508.8. + 0° 36	509.9. - 0° 3	
2	35.1	48.6	47.2	39.6	
9	48.3	1.9	0.7	32.8	
9	2.1	15.8	14.1	6.7	
1	16.0	29.2	28.0	20.2	
9	29.2	42.5	55.6	33.5	
3	43.3	56.9 9	51 9.1	47.9	
1	9 43 57.1 9	47 10.6	41.2 9	55 1.4	
4	231.1	205.5	195.9	202.1	
6	15.87	29.36	27.99	20.30	
	0	0	0	0	
6	9 43 15.87 9	46 29.36 9	50 27.99 9	54 20.30	

March. 30, 1855.

$a = -0.39$

$b = -0.09$

$c = -0.22$

Ill. Ear

W. G. B.

Polaris

39 16.2

47 55.5

56 52.3

6 56.8

14 30.3

23 56.0

1 32 51.5

318.6

54.09

0

1 6 54.09

April 3, 1855

$a = -0.36$

$b = -0.14$

$c = +0.23$

Ill. Mar

10 11

P. S. C.

Hydrae

Cephei

 β Cephei

14.8

29.0 +61° 58' 31.84 33.2 +69° 55' 10.57 30.3

43.9 31.86 3.8 10.11 37.7

57.5 32.04 32.1 10.02 10.1

11.9 31.98 1.2 9.78 49.8

26.0 32.27 30.7 21 2810.73 30.7

10 43 39.9 21 16 32.14 58.7

2 23.0

57.57

32.02

10.24

0

0

0

10 42 57.57 21 15 32.02 21 27 10.24

1855. Apr. 4

$a = -0.35$

$b = -0.15$

$c = +0.24$

N.C. B.

R.S. C

Old. Mer

 α Tauri α Aurigae β Tauri δ Orionis α Orionis

20.3

26.4

46.0

22.2

5.2

34.4

46.1

3.5

35.9

19.0

49.3

6.9

19.7

50.1

33.5

3.1

25.8

34.9

3.3

46.8

17.1

45.3

50.4

17.1

0.7

31.8

5.0

6.0

31.0

14.5

45.55

7

24.35

18

21.05

25

44.15

48

27.9

201.5

179.8

183.5

203.7

147.6

3.07

25.69

34.79

3.39

46.80

0

0

0

0

0

3.075

6

25.695

17

34.795

25

3.395

47

46.80

Apr. 6.

$a = - 0.33$
 $b = - 0.17$
 $c = + 0.24$

W. E. B.

α Tauri

Ill. Mer

2			20.6
0			34.8
5			49.9
8			3.4
7			17.7
5			32.0
9	4	28	48.8
6			204.2
80			3.46
			0
80	4	28	3.46

1855. Apr. 7

$a = -0.32$

$b = -0.13$

$c = -0.24$

O. S. C.

Id. Men

Polaris

 α Aurigae β Tauri δ Orionis ϵ Orionis

32 12.7

26.9

42.3

22.4

38.0

47 35.2 34.7

46.1

3.5

36.1

51.5

56 33.2 56.7

6.9

20.0

50.3

5.8

5 35.0 36.1

25.8

35.0

3.6

19.2

14 35.6 33.6

45.7

50.6

17.2

32.9

23 33.7 30.2

5.2

6.3

31.1

46.4

32 39.3 12.2 5

7

24.15

18

21.15

25

44.35

29

59.8

180.7

184.8

205.1

253.6

35.33

25.81

34.97

3.59

19.09

0

0

0

0

0

5 35.33 5

6

25.81 5

17

34.97 5

25

3.59 5

29

19.09

1855, Apr. 7

P.S.C.

W.G. B.

Ill. Nat

α Orionis		432.7. + 0° 30'	435.7. + 0° 52'	454.8. + 0° 37'	455.8. + 0° 33'
0	5.4	16.3	29.2	53.5	56.5
1.5	19.3	30.0	42.8	9.1	9.9
1.8	33.8	44.2	57.0	24.0	24.8
2.2	46.9	57.7	10.2	36.9	37.5
2.9	0.9	11.2	24.1	50.7	51.4
3.4	14.9	24.9	37.7	4.2	4.9
3.8	24.0	38.2	50.8	17.7	18.2
3.6	149.2	222.5	251.8	198.1	203.2
09	47.03	57.50	10.26	36.87	37.60
	0	0	0	0	0
09	47 47.03	22 57.50	28 10.26	40 36.87	40 37.60

855, Apr. 7

W.C.B.

Ill. Wnt

$a = -0.32$

$b = -0.18$

$c = +0.24$

57. 8-9. + 0° 28		461. 8. + 0° 57		468. 6. + 0° 5		478. 8. + 0° 25		479. 8-9. + 0° 38		480
	19.1		5.8		20.9		14.9		29.9	
	32.9		19.2		34.8		28.5		43.4	
	46.8		34.0		48.8		42.9		58.0	
	0.5		47.1		2.0		56.0		11.0	
	14.0		0.9		15.8		9.8		25.1	
	28.0		14.5		29.4		23.9		38.7	
8	46	41.1 8	50	27.8 8	55	42.6 9	7	36.7 9	11	51.9 9
	182.4		149.3		194.3		212.7		258.0	
	0.34		47.04		2.04		56.10		11.14	
	0		0		0		0		0	
8	46	0.34 8	49	47.04 8	55	2.04 9	6	56.10 9	11	11.14 9

Apr. 7

W.C.B.

Ill. Me

58	486. 8. + 0°	12	488. 9. + 0°	27	497. 8. + 0°	20	492. 7. + 0°	23	ε Leonis
9		32.7		14.2		16.9		45.5	24° 26' 54.7 35.2
4		46.3		28.0		30.5		59.3	First will 51.1
0		0.8		42.2		44.9		13.2	last 51.67 51.7
0		14.0		55.5		58.1		26.7	51.61 20.7
1		27.7		9.2		11.8		40.3	51.84 36.0
7		41.4		22.9		25.4		54.19	385.52 50.2
9	9	15	54.89	22	36.19	31	38.99	36	7.1
0			217.7		208.1		226.5		246.2
4			13.96		55.44		58.07		26.60
			0		0		0		0
4	9	15	13.969	21	56.449	30	58.079	35	26.609
									38 51.62

Apr. 7. 1855

W. C. B.

H. Mue

$a = -0.32$

$b = -0.18$

$c = +0.24$

501.8. + 0° 27		506.8. - 0° 6		508.8. + 0° 35		509.9. - 0° 3		* 17 ^m pro. adoni	
34.2		47.6		46.4		38.5		15.9	
48.0		1.4		0.0		52.4		29.9	
2.3		15.7		14.3		6.8		44.5	
15.2		29.0		27.6		20.2		58.0	
29.2		42.8		41.5		33.8		12.1	
43.0		56.4		55.1		47.3		29.2	
9 43 56.19	47 9.89	51 8.29	55 0.810	1	39.8	10			
228.0	202.7	193.1	199.8		229.4				
15.43	28.96	27.59	19.97		58.49				
0	0	0	0		0				
9 43 15.439	46 28.969	50 27.599	54 19.9710	0	58.49	10			

Apr. 7.

N.C. 0₂ α Leonis

Ill. Star

1.9				25.4
1.9				39.4
1.5				54.2
1.0				7.7
1.1				21.6
1.2				35.8
1.8	10	1		49.4
1.4				233.5
49				7.64
				0
49	10	1		7.64

Apr. 9/9. 1855

 $a = -0.32$
 $b = -0.19$
 $c = +0.25$

M. M. M.

W. C. B.

 β Lyrae δ Sagittarii

Moon T10

 δ Aquilae β Cygni

185

				3.6		24.4		57.9		33.8						
+33	12	11.44	38.5	19.2		40.5		11.5		49.0						
		11.56	55.8	36.0		57.3		26.0		5.2						
		11.37	11.4	51.2		12.8		39.1		20.1						
		11.49	27.9	7.1		29.0		52.9		35.8						
		11.48	44.3	23.0		44.7		6.8		91.0						
18	45	11.38	0.0	18	54	38.3	19	1	0.4	19	19	19.8	19	26	6.0	19
						178.4			209.1			214.0			200.9	
						358.4			89.1			274.0			140.9	
		11.45				51.20			12.73			39.14			20.13	
		0				0			0			0			0	
18	44	11.45	18	53	51.20	19	0	12.73	19	18	39.14	19	25	20.13	19	19

Apr. 8/9.

W.E.B.

Ill. Orion

1855phae. p.

	γ Aquilae		α Aquilae		β Aquilae				
8		7.9		22.4		67.8			
0		21.5		42.3		11.4			
2		36.3		56.9		251.9			
1		49.8		10.2		39.2			
8		3.7		24.1		53.0			
0		17.8		38.0		6.9			
0	19	40	31.0	19	44	51.2	19	49	20.0
9		168.0		251.1		214.2			
9		348.0		171.1		274.2			
13		49.71		10.16		39.17			
		0		0		0			
3	19	39	49.71	19	44	10.16	19	48	39.17

1855. Apr. 9/10

N.C. B.

Illum. Mer

$a = - 0.32$

$b = - 0.20$

$c = + 0.25$

 β Cygni γ Aquilae α Aquilae

Moon TTV

 α^2 Capricorn

33.2

7.8

28.2

31.2

48.7

46.7

21.5

42.3

47.0

55.7

5.1

36.2

56.9

8.5

14.6

19.7

49.4

10.0

18.8

27.9

35.4

3.5

23.9

34.5

42.0

50.8

17.3

37.8

50.5

56.0

19 26 5.9 19 40 30.8 19 44 51.1 20 6 5.6 20 11 9.8 20

198.8

166.5

250.2

191.1

255.7

138.8

346.5

70.2

131.1

195.7

19.83

49.50

10.03

18.73

27.96

0

0

0

0

0

19 25 19.83 19 39 49.50 19 44 10.03 20 5 18.73 20 10 27.96 20

Apr. 9/10

P.I.C.

Ill. War

 γ Cygni α Cygni

34.9

58.0

52.6

17.0

11.3

37.4

28.5

56.0

46.2

15.1

4.4

34.8

20 18

21.320

37

53.2

199.2

271.5

391.5

28.46

55.93

0

0

20 17

28.4620

36

55.93

Apr. 13. 1855

$a = -0.41$

$b = -0.21$

$c = -0.08$

P. S. C.

W. C. B.

J. L. West
P. S. C.

Polaris

 α Aquilae β Orionis δ Orionis ϵ Orionis

8 32 10.6	—	25.8	—	—	—	36.7	
47 45.2 45.1	45.0	-8 22	—	-0° 25	2.56 35.0	80.4	
57 45.5 7.1	5.9	0.43 47.1	2.49 49.3	4.8			
5 45.9 47.0	24.8	0.87 0.9	2.67 2.7	18.0			
14 42.4 40.3	44.7	0.82 14.7	2.77 16.5	31.6			
23 39.1 35.2	4.0	0.95 28.7	2.44 29.9	45.2			
1 32 40.5 16.8 5	7 23.0 5	8 0.88 42.0 5	25 2.32 43.0 5	29 98.8	11		
	17 3.3			245.5			
43.10	24.74	0.75	2.54	17.93			
0	0	0	0	0			
1 32 5 43.10 5	6 24.74 5	8 0.75 5	25 2.54 5	29 17.93	11		

Apr. 14.

$$a = -0.40$$

$$b = -0.21$$

$$c = -0.08$$

D. S. C.

W. C. B.

Ill. Mer

 γ Virginis β Cygni

Companion

 γ Aquilae α Aquilae

7		16.0		32.8		34.3		—		27.4
4		29.9		47.8		49.8	+10° 16	—		41.1
8		44.0		4.0		6.3		48.3034.9		55.7
0		57.2		18.8		21.0		48.3748.4		9.0
6		11.0		34.1		36.6		49.54 3.5		22.9
2		24.8		49.7		51.9		48.2916.2		36.7
8	11 13	37.9 19	26	4.8 19	26	6.8 19	404846 29.9 19	44	50.0	
5		220.8		192.4		206.7				242.8
3		57.26		18.91		20.96		48.59		8.97
		0		0		0		0		0
3	11 12	57.26 19	25	18.91 19	25	20.96 19	39 48.59 14	44	8.97	

Apr. 15/16, 1855

$a = -0.38$

$b = -0.20$

$c = -0.03$

All. Wier

P.S.C.

Polaris

38 47.5

47 43.1

57 7.9

6 42.6

14 40.5

23 40.1

1 32 16.5

238.2

42.60

0

1 5 42.62

Apr. 17

$a = -0.37$

$b = -0.19$

$c = -0.03$

All. Ma

P.L.C.

Polaris

38 55.1

47 41.6

57 1.9

5 43.7

14 43.1

23 37.2

1 32 19.8

242.4

43.20

0

1 5 43.20

1855, Apr. 16

$a = -0.37$

$b = -0.20$

$c = -0.03$

N. C. B.

H. Weil

β Canis Min			δ Geminor			δ Geminor			α Canis Min			β Geminor		
		1.4			57.8			57.9			27.4			5.4
		15.3			13.8			14.1			41.1			21.0
		29.8			30.8			31.1			58.6			37.3
		42.3			46.3			46.8			8.6			52.3
		57.0			2.3			2.7			22.6			8.0
		10.8			18.6			19.0			36.7			23.8
7	20	24.2	7	26	33.9	7	26	34.37	32	49.6	7	37	38.6	19
		181.8			203.5			205.9			241.6			186.4
		43.11			46.21			46.56			8.80			52.34
		0			0			0			0			0
7	19	43.11	7	25	46.21	7	25	46.56	32	8.80	7	36	52.34	19

Apr. 17/8

$$a = -0.37$$

$$b = -0.19$$

$$c = -0.03$$

Ill. Mus

W.C. O.B.

γ *Aquilae* α *Aquilae*

7.4		5.9		26.7	
1.0		19.8		40.4	
7.3		34.1		58.0	
2.3		47.7		8.4	
8.0		1.9		22.3	
2.8		15.7		36.1	
8.6	19 40	29.0	19 44	49.6	
6.4		154.1		238.4	
1.34		47.79		8.34	
0		0		0	
34	19 39	47.79	19 44	8.34	

1855 Apr. 20/21

$$a = -0,33$$

$$b = -0.18$$

$$c = -0.03$$

P. J. C.

He. Mos

2 Capricorn

2 Cygni

~~Polaris~~
B Zami

Polaris

20 11 52.6

20

28

51.35

18

18.0

32 49.224.6

52.57

53,96

31.80

47.63

6

2

2

2

20 //

52. 57

20

37

53.96 5

17

31.80

5 47.63

Apr. 22/23

$$a = -0.32$$

$$b = -0.18$$

$$c = -0.03$$

Ill. Mus

w.e. 03

γ Aquilae				α Aquilae				β Aquilae			
28	32	8.0	4.9				25.8			54.8	
			18.7				39.3			8.5	
			33.4				54.0			23.0	
			46.7				7.3			36.2	
			0.7				21.1			50.0	
			14.7				31.0			3.8	
19	40	28.1	19	44		48.4	19	49		17.0	
			147.2			230.9				193.3	
			46.74			7.27				36.19	
			0			0				0	
19	39	46.74	19	44		7.27	19	48		36.19	

Apr. 23, 1855

$a = -0.31$

$b = -0.17$

$c = -0.03$

W.C. B.

Ill. Mer.

Moon TV

"
β Cancri

"
ε Hydrea

52.9	0.5	—
8.4	14.9	+6° 57' 30.27 2.5
24.1	30.0	30.29 17.0
39.6	43.9	30.27 30.3
55.0	58.4	30.26 44.1
10.5	12.8	30.14 57.8
21.4	26.9	40 30.22 11.2
216.3	187.4	

8

13

8

24

8

40

5

39.47	43.91	30.24
0	0	0
39.47	43.91	39 30.24

8

12

8

23

8

39

30.24

5

Apr. 23

P.S.C.

Ill. Neb

α Aurigae		β Tauri		δ Orionis		ϵ Orionis		
	22.9		44.3		18.6		34.0	
	42.4		59.5		32.2		47.5	
	3.0		16.2		46.4		1.9	
	22.0		31.0		59.5		15.1	
	41.6		46.8		13.4		28.9	
	1.5		2.3		27.1		42.5	
5	7	20.25	18	17.35	25	40.45	29	55.8
	153.6		217.8		237.6		225.7	
	21.94		31.11		59.66		15.10	
	0		0		0		0	
5	6	21.945	17	31.115	24	59.665	29	15.10

Apr. 23/24. 1855

$a = -0.31$

$b = -0.17$

$c = -0.08$

N.C. B.

α^2 Capricorn

γ Cygni

ell. Mus

α Cygni

10 15 183 19.6
-12 59 57.29 29.0

31.8

55.1

49.7

14.2

8.2

34.4

25.1

53.1

43.2

12.3

1.1

31.9

18.3

27

50.3

177.8

251.3

25.46

53.04

0

0

20

17

25.46

20

36

53.04

Apr. 27.

$a = -0.32$

$b = -0.15$

$c = -0.04$

P.S.C.

Jlth. Xene

		P. S. C.		Jlth. Xene		Moon		Gassendi	
		β Tauri		2 Urs Maj		S. Leonis			
		12.9	+62° 32'	9.96	10.2	3.4		56.7	26.9
		28.6	First wind	0.09	41.5	18.7		10.4	40.5
		44.9	last	9.94	10.0	33.5		25.4	58.3
		59.8		9.82	39.6	47.7		39.0	8.9
		15.1		10.27	9.8	2.3		53.2	23.1
		31.6	10	56.9	40.8.1	17.1		7.2	37.2
5	18	46.1			11	31.2	11	27	20.9
		239.4				153.9			212.8
		419.4				333.9			272.8
		59.91		9.99		47.70			38.97
		0		0		0			0
5	17	59.91	10	55	9.99	47.70	11	26	38.97
					41			11	28
					6				8.96

Apr. 27, 1855

$a = -0.32$

$b = -0.15$

$c = -0.04$

P. S. R.

98.7.0.0.0

 γ Virginis β Virginis γ Virginis β Corvi

7.0

51.3

12.4

26.3

20.7

5.1

26.0

41.0

30.2

19.5

40.5

56.7

48.5

32.6

53.7

11.0

2.3

46.4

7.3

25.8

16.1

0.2

21.0

40.7

11 39

29.6 11

44 13.4 12

13

34.3 12

27

54.9

159.4

168.5

195.2

256.4

339.4

228.5

375.2

76.4

48.49

32.50

53.60

10.91

0

0 64

0

0

11 38

48.49 11

43 32.50 12

12

53.60 12

27

10.91

Apr. 27

P. C.

J. L. M. W.

P. C.

	Polaris s.p.		Polaris comp.		α Virginis		γ Urs. Maj.		γ Bootis	
12	39	16.3	38	50.6		16.0		—		27.9
	47	57.6	47	36.1		29.9 + 50	2	14.51 31.6		42.1
	56	57.5	56	34.1		44.6		14.53 34.0		57.4
	5	52.6	5	27.9		57.9		14.66 14.7		11.5
	14	27.7	13	59.6		11.9		15.02 36.4		25.9
	23	54.3	23	25.1		25.9		14.55 57.3		10.5
13	32	49.5	32	15.9	13	39.3	13	43 14.97 18.1	13	48
		315.5		249.3		225.5				259.9
		375.5				405.6				49.9
		53.64		27.04		0		14.67		11.41
		0		0	13	17		0		0.13
13	5	53.64	13	27.04		57.93	13	42 14.67	13	48
										11.41

1855. Apr. 27/28

$$a = -0.32$$

$$b = -0.15$$

$$c = -0.24$$

Old. New

N.E.B.

P.S.C.

 α Cygni

Polaris

53.7 38 50.5

12.9 47 48.6

33.4 57 14.4

51.7 5 51.4

11.0 14 44.5

30.4 23 42.6

20 37 49.21 32 24.4

242.3 276.4

51.76 48.06

0 0

20 36 51.761 5 48.06

Apr. 28/29

$a = -0.33$

$b = -0.14$

$c = -0.05$

Alt. Mer

32.4

5.9

O. C.

 α Cygni

53.8

12.9

33.4

51.8

11.0

30.4

20 37 49.2

242.5

51.79

0

20 36 51.79

1855. May. 2

$$a = -0.33$$

$$b = -0.12$$

$$c = -0.06$$

H. M. S.

Y. M. S.

"

2² Gemini α Canis Min.

53.0

23.0

9.4

30.3

26.2

50.8

42.0

4.2

57.9

17.5

14.2

31.6

7 26 298.7 32 48.0

232.5 208.4

41.79

4.06

0

0

7 25 41.797 32 4.06

May 3

$a = -0.33$

$b = -0.11$

$c = -0.07$

M.C.B.

P.J.C.

St. M. M.

 α Leonis ν Hydrae β Urs Major (541)

(541)

		18.4		7.8		10.8		20.8	53.3		1.2
		32.4		21.9		36.0		7.8	20.99		14.9
		47.1		36.8		2.7		20.97	21.0		29.2
		0.6		50.4		27.0		21.17	34.9		42.6
		14.8		4.7		52.2		21.04	48.5		56.2
		28.8		19.0		17.7	11	2	21.72	1.8	9.9
10	1	42.3	10	43	32.5	10	54	42.0		11	23.0
		184.4		173.1							177.0
		0.63		50.44		26.91		21.02			42.43
		0		0		0		0			0
10	1	0.63	10	42	50.44	10	53	26.91	11	1	21.02
										11	6
											42.43

1855. May 3

Ull. Mus

$$a = -0.33$$

$$b = -0.11$$

$$c = -0.07$$

D.S.C.

(51)	(512)	(517)	518	(519)	
33.6	19.5	12.7	11.5	18.9	
47.2	33.0	26.1	28.2	32.6	
1.6	47.4	40.8	39.6	47.1	
14.7	0.6	54.0	52.6	0.1	
28.6	14.3	7.6	6.2	13.9	
42.1	28.0	21.2	20.7	27.7	
11 16 58.4	11 21 41.4	11 30 34.4	11 34 33.2	11 42 40.8	22
223.2	184.2	196.8	188.4	181.1	
14.74	0.60	53.84	52.63	0.16	
0	0	0	0	0	
11 16 14.74	11 21 0.60	11 29 53.84	11 33 52.63	11 42 0.16	22

May. 3/4.

$$a = -0.33$$

$$b = -0.11$$

$$c = -0.07$$

Ill. Mex

M.R. B.

Pyari

9			10.6
6			24.8
1			39.6
1			53.2
9			7.1
7			21.7
8	22	58	35.2
1			192.2
16			53.17
			0
16	22	57	53.17

May 5/6. 1855

$$a = -0.27$$

$$b = -0.07$$

$$c = -0.08$$

Ill. Mus

W. C. B.

α Cygni

52.2

11.4

31.6

50.0

9.6

28.8

20 57 47.4

231.0

50.14

6

20 36 50.14

