

1855phae [pro]... 849

KG
11365
94

B.23

No. 23.

Reduction of Transits
March 30, 1856 to June 11, 1856

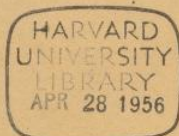
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KG-11365.94

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1856. March. 30/31

W. C. B.

All. E. air

Aquilas			Aquilas			Moon 11.0		
		4.7			29.7			18.5
		18.0			38.9			33.1
		32.1			52.8			48.8
		45.9			6.7			4.4
		59.8			20.1			19.5
		14.1			34.6			31.5
19	43	28.0	19	47	48.3	20	42	51.1
		202.6			227.1			210.9
		322.6			47.1			30.9
19	42	46.09	19	47	6.73	20	42	4.41

1856. April 1.

Let. Ear.

m.c. 03.		" "		" "		" "		" "		" "	
α Aurigae		β Tauri		δ Orionis		ϵ Orionis		μ Geminor			
—		45.9		19.2		—		51.9			
445	51 23.8244.4	1.0		32.5		— 1	18 15.57 48.1	6.3			
24.02 4.3		16.5		46.1		15.44 1.7		21.0			
23.94 23.9		32.2		0.0		15.23 15.2		36.0			
23.97 42.9		47.3		13.2		15.41 28.6		50.3			
23.63 3.2		3.5		27.5		11.33 42.9		5.8			
5	9 23.8222.95	2.0	19.0 5	27	41.1 5	31 15.42 56.6	6	17	20.7		
		168.4		179.6				192.0			
5	8 23.87 5	19	32.20 5	26	59.94 5	31	15.40 6	16	36.00		

1856. April 1.

W.C. B.

Ill. Sam

2 Canis Maj

26.9

40.8

55.0

9.3

23.1

38.2

6 41 52.3

. 245.6

6 41 9.37

April 2

M. C. O.

Ill. East

M. C. O3.		"		"		"		"		
α Aurigae		β Tauri		δ Orionis		ϵ Orionis		α Orionis		
	24.9		45.9		19.0		34.5		2.2	
	44.0		0.6		32.2		47.7		15.7	
	3.7		16.1		45.9		1.3		29.4	
	23.2		31.9		59.7		15.0		43.3	
	42.3		46.9		12.4		28.2		56.7	
	2.9		3.1		27.2		42.8		11.0	
5	10	22.65	21	18.75	28	40.95	32	56.25	51	24.9
	163.6		163.6		237.8		221.7		183.2	
5	9	23.375	20	31.945	27	59.695	32	15.135	50	43.31

1856. Apr. 5

W.C.B.

Bell. E an

δ Orionis

ε Orionis

ζ Orionis

49

20.6

36.0

3.9

33.7

49.2

17.0

47.5

2.9

30.9

1.2

16.6

45.0

14.5

30.0

58.3

28.8

44.3

12.7

5 28

42.3

5

32

57.8

5

51

26.5

9

188.6

236.8

194.3

5 28

1.23

5

32

16.69

5

50

44.90

9

April 5

-33
-19
-9

Ill. Ear

I Catalogue

J.7.7.			" "			" "			I Catalogue					
492.7. + 0° 23'			2 Leonis			502.8. + 0° 27'			506.8. - 0° 6'			508.8. + 0° 35'		
43.9			—			32.9			46.2			44.8		
57.1 + 24			2 64.16 34.6			46.1			59.3			58.1		
10.7			3.99 48.9			59.8			13.2			11.8		
24.7			3.93 3.9			13.5			26.8			25.7		
37.8			4.11 18.6			26.7			40.1			38.8		
52.0			3.93 34.2			41.0			54.1			53.1		
9	39	5.8	9	414.10	49.3	9	46	54.6	9	50	8.1	9	54	6.8
282.0						274.6			248.2			239.1		
9	38	24.57	9	41	4.04	9	46	13.51	9	49	26.89	9	53	25.59
			- 0.33											
			37. 41.00											
			+ 0.04											

1856. April 5

K.7.7.

all. Pan

19.9. - 0° 3'		α Leonis		comp. free.		513.9. + 0° 26'		514.8. + 0° 31'		51
37.2		23.9		14.3		9.7		43.0		
50.3		37.7		28.0		22.9		56.2		
4.1		51.5		41.9		36.4		99		
17.9		5.6		56.1		50.2		23.8		
30.9		19.3		9.6		3.7		37.0		
41.2		34.0		24.4		18.0		61.3		
9 55 58.8	10	4 47.9	10	4 38.2	10	11 31.5	10	18 5.0	10	
244.4		219.9		212.5		172.4		226.2		
9 57 17.77	10	4 51.70	10	3 56.07	10	10 50.34	10	17 23.74	10	
		-0.38								
		63.24								
		+0.09								

April 5

2.7.7.

H.L. East

1856phae.

01	516.8.	- 0°	3	(519).	5-6.	+ 0°	7	(523).	7-8.	+ 0°	29	526.9.	+ 0°	52	531.	7.	+ 0°	28	
0					7.4				38.8				31.3				26.9		29.8
2					20.8				52.1				44.7				40.3		42.8
9					34.3				5.8				58.6				54.0		56.8
8					48.2				19.7				12.1				7.9		10.2
0					1.2				32.8				25.3				20.9		23.6
3					15.7				47.8				39.9				35.2		38.0
0	10	21	29.6	10		27	0.8	10		37	53.4	10		42	48.9	10	53	51.7	
2			157.2				197.1				265.3				234.1			252.9	
4	10	20	48.17	10		26	19.59	10		37	12.19	10		42	7.73	10	53	10.41	

941 3 22.11
 10 1 22.12

 951 22.115

856. April 5.

9.7.7.

Ill. Ear

(535).7. + 0° 60 (537).7. + 0° 47

24.1 57.1

37.9 10.9

51.3 24.8

5.0 38.1

18.3 51.7

32.7 5.9

10 57 46.3 11 0 19.4

216.0 208.3

10 57 5.14 11 59 38.33

1886. April 7

alt. East.

W. & B.		"		"		"	
α Aurigae		β Tauri		γ Orionis		δ Orionis	
	28.2		49.0		37.9		5.7
	47.3		4.1		51.0		19.0
	7.0		19.7		4.8		32.9
	26.9		35.1		18.5		46.7
	45.8		50.3		31.8		59.9
	6.2		6.7		46.0		14.4
5	10	5	21	5	32	5	57
	25.9		22.1		59.7		28.2
	187.3		187.0		249.7		206.8
5	9	5	20	5	32	5	50
	26.76		35.29		18.53		46.69

1856. April 7

J. F. F.

Ill. Eau

2 Louis

58.9	24.2	38.4	0.2	23.7
12.1	37.6	51.7	13.7	39.3
25.8	51.1	5.3	27.2	53.3
39.6	4.9	19.0	41.0	7.4
52.8	18.2	32.2	54.2	21.0
7.2	32.6	46.6	8.4	35.8

9	40	20.8	9	49	46.1	9	54	0.2	10	0	22.3	10	4	49.8	10
		217.2			214.7			193.4			167.0			230.3	

9	39	39.6	09	49	4.96	9	53	19.06	9	59	41.00	10	4	7.19	10
---	----	------	----	----	------	---	----	-------	---	----	-------	----	---	------	----

-435

0 53.23

+ 0.06

April 7.

~~1856~~

Dec. 8 an

1856

7			21.6		11.2		17.4		52.8		37.9		
3			34.9		24.4		30.7		6.0		51.1		
3			48.7		38.2		44.3		19.8		4.8		
4			2.2		52.0		58.1	prob. 33.5	53.5		18.6		
0			18.5		5.2		11.2		46.8		31.7		
8			29.9		19.6		28.8		1.2		46.2		
8	10	11	43.4	10	33.3	10	39.6	10	25	14.9	10	34	59.8
3			196.2		183.9		227.1		195.0		250.1		
9	10	11	2.3	10	51.99	10	58.16	10	24	33.57	10	34	18.59

April 7. 1856

f.7.7.

Jeb. E. an

		43.0			50.3			5.7			34.6			2.8
		56.3			3.5			19.0			47.9			16.0
		10.0			17.2			32.8			1.9			29.8
		23.9			30.9			46.2			18.2			43.4
		37.0			44.2			59.6			28.5			56.8
		51.2			58.6			14.0			43.0			11.0
10	39	4.9	10	42	12.1	10	46	77.8	10	48	56.7	10	52	24.7
		226.3			216.8			205.1			227.8			184.5
10	38	23.6	10	41	30.9	10	45	46.4	10	48	15.4	10	51	43.5

April 7.

J. J. J.

All. I. ant.

S. Hyd. d. Gral

8			23.6			8.1			52.3			28.0			58.7
0			36.8			21.2			5.9			38.3			11.8
8			50.5			35.0			20.1			52.0			28.4
4			4.1			48.8			34.3			4.7			39.2
8			17.7			2.6			46.0			18.9			52.4
0			31.9			16.4			2.7			33.0			6.9
7	11	2	41.5	11	9	29.9	11	16	16.7	11	22	47.0	11	23	20.5
5			210.1			161.4			180.0			22.0			214.9
50	11	2	4,30	11	8	48.77	11	15	34.29	11	22	5.76	11	22	39.27
									-0.43						
								12	9.87						
									+0.09						

April 7, 1856

see. Eare

1.7.7.

	—			45.9	
	49.76	22.3		59.0	
	49.83	36.1		12.9	
	49.93	49.9		26.4	
	49.91	3.1		39.8	
	49.94	17.5		54.1	
11	250.04	31.2	11	30	7.8
				245.9	
11	24	49.90	11	29	26.56

10	4	3	23.57
11	16		22.90
10	40	3	23.735
Pro R			+ 0.003

1856. Apr. 8

Dec. Jan

A.P.C.		" "		" "	
α Aurigae	β Tauri	γ Orionis	δ Orionis	α Orionis	β Orionis
28.4	—	37.9	51.7		
47.5 + 28°	29' —	51.0	19.0		
7.2	35.33 19.7	4.9	22.8		
27.0	35.33 39.3	18.4	46.7		
46.0	35.30 50.3	31.6	0.1		
6.5	35.34 6.7	46.1	14.7		
5 10 26.1 5	2/35.38 22.2 5	32 59.8 5	51 28.2		
188.7		249.7	147.2		
5 9 26.96 5	20 35.34 5	32 18.53 5	50 46.74		

1886. April 9.

92.200

7.2.5

 β Tami α Tami

Moon 10

48.8

20.9

26.1

3.6

34.7

41.4

19.6

48.8

57.4

25.0

3.1

13.0

50.1

16.9

28.9

6.5

31.8

45.6

21

21.9

4

31

46.1

5

28

1.2

185.5

202.3

213.6

245.5

22.3

93.6

20

35.07

4

31

3.19

5

27

13.37

-0.30

-0.33

17

11.11

27

39.11

April 10.

Ill. Ear

T. H. S.

 μ Gemina

Moon 10

 γ Gemina α Canis Maj γ Gemina?

55.0

34.8

43.8

29.8

omit

9.2

50.2

58.1

43.5

29.1

24.1

6.2

13.3

57.9

43.7

38.9

22.1

28.5

12.3

58.1

53.4

37.8

43.0

26.1

12.5

9.0

54.6

59.0

40.1

27.8

6 19 23.6

6 31

10.5

6 40

19.1

6 43

58.3

7 0

42.2

213.2

216.2

259.8

266.0

273.2

156.2

199.8

86.0

6 18 39.03

6 20

22.31

6 39

28.54

6 43

12.28

14 14.89

35 4.46

Apr. 10, 1856,

W.C. O.

Dec. 2nd Jan

δ Geminor	α Geminor	α Canis Min	β Geminor
—	1.0	29.1	8.2
+22° 15' 55.67 26.0	16.3	42.7	23.5
55.74 40.9	32.7	56.4	38.9
55.73 55.7	48.9	10.2	54.6
55.75 10.0	4.5	23.5	9.5
55.52 25.3	21.8	38.0	26.0
7 15 55.84 40.3	7 30 37.7	7 35 51.7	7 40 41.4
425	162.9	257.0	202.1
	342.9	72.0	382.1
7 14 55.71	7 29 48.98	7 35 10.29	7 39 54.59

Apr. 11.

Ill. E an

W.E.B.			"			"			"			"		
α Aurigae			β Tauri			δ Orionis			ϵ Orionis			α Orionis		
		28.2			48.8			22.1			37.6			5.7
		47.0			2.7			35.2			30.7			18.7
		6.7			19.3			49.0			04.4			32.6
		26.4			34.9			2.9			18.2			46.2
		45.6			50.0			16.0			31.4			39.8
		6.1			6.4			30.3			45.8			14.1
5	10	25.6	5	21	22.0	5	28	42.9	5	32	39.4	5	51	27.9
		185.6			185.1			199.4			247.5			205.0
5	9	26.51	5	20	35.01	5	27	2.77	5	32	18.71	5	50	46.43

April 11. 1856

Ill. S. air

T.H.S

1856phae.p

♂ Gemini		♂ Canis Maj		♂ Gemini		♂ Gemini		Moon T.O.							
	43.4		29.8		14.8		11.5		22.7						
	58.1		43.3		28.8		26.0		38.8						
	13.2		57.9		43.3		40.7		54.7						
	28.4		12.2		58.2		55.1		10.4						
	42.9		26.0		12.3		9.8		25.7						
	58.9		40.8		27.8		25.2		42.2						
6	39	14.0	6	42	35.2	6	59	42.27	15	40.1	7	29	57.8	7	
		258.9			281.2			227.4		208.8			253.3		
		198.9			125.2			407.4		388.8			73.3		
6	38	28.41	6	42	12.17	6	58	58.20	7	14	55.56	7	29	10.47	7

April 11.

Ill. Ear

7.24.5.

 α Canis Min β Geminor

29.2

8.1

42.7

23.1

56.3

38.8

10.2

54.4

23.3

9.4

37.9

28.7

31-

51.5

40

41.2

251.1

200.7

71.1

380.7

35-

10.16

39

54.89

1856. April 13

1856phae.proj.

P.S.C.			" "			" "			" "			" "		
α Aurigae			β Tauri			δ Orionis			γ Geminor			δ Geminor		
		27.8			48.9			5.6			14.8			11.6
		47.0			3.9			18.9			28.9			26.0
		6.8			19.4			32.7			43.5			40.8
		26.6			31.0			46.4			58.2			55.1
		48.4			48.9			0.0			12.3			9.9
		6.4			6.7			14.2			27.7			21.2
5	10	25.6	5	21	22.4	5	51	28.0	6	59	47.2	7	15	40.2
		185.6			186.2			141.8			227.6			209.2
					246.2			325.8			407.6			389.2
5	9	26.51	5	20	35.17	5	50	46.54	6	58	58.23	7	14	55.60

April 13.

Ill. East-

P. S. C.

	0 Cancr	5 Cancr	83 Cancr	Moore TO	Center zone of Para-thoracics
6	4.9	45.4	38.8	52.0	—
0	18.8	59.8	52.7	6.4	121 8 6.98 37.0
8	33.1	14.7	7.0	21.6	7.00 52.0
1	47.7	29.5	21.5	36.8	7.13 7.1
9	1.8	44.0	35.3	51.0	7.20 7.6
2	16.9	59.4	50.5	6.8	7.10 37.2
2 8 27	31.2	14.29	4.89	21.89	19 7.17 52.1
2	154.4	267.0	210.6	196.4	1.58
2	334.4	207.0	150.6	256.4	
60 8 26	47.77	29.579	21.519	36.839	19 7.10

April 13. 1856.

Hll. Ear

P.S.C		"		"		"	
Leonis		β Leonis		α Leonis		γ' Leonis	
	10.8		20.9		25.6		43.8
	25.1		35.4		39.0		57.9
	40.1		50.5		53.2		12.3
	55.1		5.5		7.2		27.1
	9.7		20.1		20.9		41.4
	25.2		35.9		35.8		56.6
9	27	9	41	10	4	10	16
	40.2		50.8		49.4		11.0
	206.2		219.1		231.1		250.1
	386.2		39.6		51.1		190.1
9	26	9	41	10	4	10	15
	55.17		5.59		7.30		27.15

April 7/18

M.C.O.

all, Σ are α Cassiopeia

Polaris

31.2 0 42 15.9

54.9 50 54.7

19.2 59 52.3

43.7 8 57.0

6.9 17 32.8

32.8 27 4.1

0 35 56.9 1 35 59.7

245.6

0 34 43.66 1 8 56.64

1856. April 25.

Ill. E. an

W.C.B.

		α Tauri		α Aurigae		β Tauri		γ Orionis		δ Orionis	
		56.0		—		23.9		—		40.6	
		9.8	+45° 51'	—		39.0	-1° 18'	—		54.0	
		23.9		—		54.7		52.54	38.8	7.8	
		38.4		—		10.2		53.33	53.3	21.4	
		52.1		1.87	20.8	25.2		53.41	6.6	34.9	
		7.1		1.63	41.2	41.6		53.43	21.0	49.4	
4	28	21.3	5	7	1.82 0.9	5	17	57.1	5	293.43 34.6	5
		208.6						251.7			
										211.3	
4	27	38.37	5	6	1.77	5	17	10.24	5	28	53.43
										5	47
											21.61
											6

Apr. 25

M.C.B.

Ill. Ear

	α Canis Maj	ϵ Canis Maj	α Canis Min.	β Gemino
6	4.7	10.8	4.4	43.3
0	18.1	25.8	17.7	88.3
8	32.8	41.4	31.4	13.8
4	47.1	57.1	45.2	29.6
9	1.0	12.2	58.6	44.6
4	18.9	28.6	13.0	0.9
2	39 30.16	53 44.27	32 26.77	37 16.4
3	150.1	220.1	197.0	206.9
61	6 38 47.166	52 57.167	31 45.297	36 29.56

1856. April 25.

P.S.C.

α Leonis

Ed. E. Wink

		0.4		56.3		46.0		—		—
		14.4		10.0		59.5		33.36	5.8	—
		29.0		24.2		14.0		33.29	20.1	—
		42.8		37.3		27.2		33.17	33.2	8.77
		56.8		51.1		41.0		33.36	47.1	8.56
		10.8		5.0		54.4		33.44	0.9	8.74
10	1	24.2	10	8	18.3	10	12	7.9	10	1833.31
		178.4		202.2		250.0		14.0	10	218.52
										49.2
10	0	42.63	10	7	37.46	10	11	27.11	10	17
										33.32
										10
										21
										8.65
										10

Apr. 25

P. S. C.

Gel. Sea Water

			12.4			53.1			17.9			24.9			40.2
			26.0			7.0			31.2			38.6			54.1
			40.6			21.5			41.8			53.0			8.2
8			53.9			34.6			58.9			6.2			21.6
3			7.6			48.4			12.7			19.7			35.3
2			21.2			2.0			26.4			33.7			49.0
2	10	31	34.4	10	33	15.4	10	35	39.7	10	38	46.8	10	43	2.2
			196.1			182.0			232.6			222.9			210.7
5	10	30	53.73	10	32	34.57	10	34	58.94	10	38	6.13	10	42	21.53

April 25. 1856

D.J.C.

. Ill. Edge War

185

		3.0		—			37.3		41.3		58.2					
		16.7		50.56	23.0		51.0		55.1		11.9					
		31.0		50.59	37.4		5.4		9.7		26.2					
		44.2		50.47	50.5		18.8		23.1		39.4					
		58.1		50.46	4.2		32.3		36.9		52.1					
		11.6		50.64	18.1		46.0		50.4		7.0					
10	43	24.9	10	45	50.51	30.2	10	48	59.3	10	55	3.7	10	59	20.2	11
		189.5							250.1			220.2			216.0	
10	42	44.21	10	44	50.54	10	48	18.59	10	64	22.89	10	68	39.43	11	

Apr. 25

Sec. 2a

Dec. 2a

Mar

S. Hyd. Crat.

2		42.6		48.3		—		59.9		33.2
9		56.3		2.0	-14	0	—	13.3		46.8
2		11.0		16.3		—		27.8		1.2
4		24.1		29.7		—		41.0		14.7
1		37.7		43.3		—		54.8		28.1
0		51.3		57.0		9.40	37.7	8.3		42.0
2	11	6	4.4	11	6	10.3	11	12	9.27	51.2
0			227.4			206.9		19	21.5	11
								22	6.6	221.2
43	11	5	23.91	11	5	29.56	11	12	9.33	11
								18	40.94	11
								19		14.46

P.S.C.

Alle. ~~Eden~~ Wert.

[illegible]

April 25

O.S.C.
β Leonis

P.L. Mark

1856

7.8		01.1		1.1		—		58.0		23.0					
1.6		15.3		15.0		59.76	32.2	11.8		36.7					
5.9		30.2		29.2		59.99	46.8	26.1		51.2					
0		43.8		42.5		59.97	0.0	39.3		4.3					
8.0		58.1		56.3		59.96	13.7	53.0		18.0					
7		12.3		9.9		59.84	27.3	6.7		31.8					
8	11	42	26.0	11	16	23.0	11	59.91	40.6	12	1	20.0	12	4	44.9
8		186.8		177.0				214.9		209.9					
11	11	41	43.83	11	15	42.43	11	54	59.90	12	0	39.27	12	4	4.27

April 25, 1856

D.S.C.

See West

1856phae.p

				Mars TO		Mars 110		β Corvi				
				55.9	0.3	1.2	5.9					
				9.8	13.9	15.0	20.8					
				24.0	28.3	29.6	36.3					
				37.1	41.7	42.5	50.5					
				51.0	55.4	56.2	5.1					
				4.8	9.0	10.0	20.4					
12	10	18.0	12	22	22.2	12	22	23.3	12	27	36.7	9
				200.6	170.8	177.8	176.1					
12	9	37.23	12	21	41.54	12	21	42.54	12	26	50.87	9

April 26

OJEE

Ill. Mer

		α Leonis Comae		α Leonis		513.9. + 0. 26			
		27.1		44.2		54.0		20.76	39.6
		40.9		58.4		8.1		20.76	53.2
		54.2		13.1		22.7		—	10.56 43.0
		8.5		26.7		36.3		20.67	20.7
		22.1		40.8		50.5		20.87	34.6
		36.0		54.7		4.4		20.84	48.3
9	36	49.0	10	8.3	10	18.0	10	820.92	1.6 10
		238.8		246.2		194.0			12/0.32 51.0
9	36	8.40	10	0	26.60	10	0	36.29	10
								7	20.80 10
									12 10.47

April 26, 1856

O.S.C

Elg. West

1856 pae. p

14.81 + 0° 51'				516.8. - 0° 3'								
	13.0	—		37.6	6.0	—						
	26.7	—		51.1	19.6	—						
	41.1	0.39	47.2	5.4	34.1	28.19	15.0					
	54.3	0.37	0.4	18.7	47.3	28.17	28.2					
	8.1 10	160.27	14.0	32.5	1.0	28.27	42.0					
	21.9	—		46.1	14.8	28.44	55.9					
10	14	35.0	—	10	17	59.4 10	31	28.9 10	28.12	33	8.8	10
	200.1			250.8				150.8				
10	13	54.30 10	16	0.34 10	17	18.69 10	30	47.26 10	32	28.24	10	

April 26

P.S.C

Jell. Man

527.9-10. + 0^u 17

1855

		11.3		—		34.0		56.7		29.0					
		25.0		—		47.7		10.2		42.7					
0		29.3		—		2.0		24.7		56.3					
2		52.4		38.27 38.3		15.1		37.9		10.3					
0		6.3		38.17 5 1.9		29.0		51.6		23.9					
9		20.0		38.24 5.7		42.6		5.2		37.8					
8	10	35	33.1	10	39 38.22 8.9	10	42	55.9	10	43	18.6	11	18	51.0	
			187.4					226.3			204.9			251.0	
24	10	34	52.49	10	38	38.22	10	42	15.18	10	42	37.84	11	18	10.14

Apr. 26. 1856.

P.S.C.

Jell. Max

		32.7		24.0		—		13.8	
		46.6		37.7		—		27.3	
		1.0		51.9		—		41.9	
		14.2		5.2		—		55.0	
		27.9		18.9		18.57	32.3	8.8	
		41.7		32.6		18.44	45.9	22.4	
14	18	55.0	10	45.9	11	21.18	59.1	11	26
		219.1		216.2					204.9
11	18	14.16	11	8.17	11	21	18.48	11	25
			20						54.99

Apr. 27/28

W. C. B.

Lee, W. H.

10.7

29.9

50.1

8.7

28.0

47.3

20 38 8.8

180.5

20 37 8.56

1856. April 29.

W. C. B.

H. W. M.

W. C. B.		H. W. M.	
α Canis Maj	α^2 Geminor	α Canis Min	β Geminor
41.1	12.0	40.7	19.6
58.2	28.0	54.3	35.0
10.3	48.2	8.7	51.2
24.2	0.7	22.0	6.3
38.3	17.0	35.8	22.0
53.8	33.2	49.7	37.5
6 40 6.57	26 48.87	33 2.97	37 52.7
169.4	41.9	154.1	44.3
6 39 24.207	26 0.607	32 22.017	37 6.33

May 1,

N.C.B.

J.L. Warr

α Aurigae		α Canis Maj		α^2 Geminor		α Canis Min.					
	40.5		41.8		13.0		41.6				
	0.1		56.0		29.0		58.2				
	20.4		11.1		46.0		9.8				
	39.5		24.8		1.7		22.9				
	59.0		39.2		17.8		36.8				
	18.8		53.3		34.0		50.5				
5	7	38.2	6	40	7.3	7	26	49.7	7	33	3.7
	216.5		233.5		191.2		220.5				
5	6	39.50	6	39	24.7	7	26	1.60	7	32	22.92

856. May 5/6.

n.e. 0.

90. m. 2

Cygni

Andromedar

Auriga

13.2

49.1

42.9

32.5

4.8

2.8

52.8

21.1

23.4

11.2

36.0

42.2

30.7

51.8

2.0

50.0

7.1

21.4

20

38

8.70

2

22.35

7

40.4

199.1

192.2

178.1

20

37

11.300

1

36.035

6

42.16

May 6.

J.F.T.

H.C. Hall

♂ Lewis

(564). 8-9. + 0° 2' 6 (564).

(566). 7. + 0° 11' 566. 7-8. + 0° 3'

41.1

5.0

5.4

49.2

3.9

55.3

18.7

19.0

3.0

17.6

10.3

33.2

33.6

17.3

32.0

24.0

46.4

46.8

30.7

45.1

38.3

0.1

0.4

44.2

58.9

52.5

13.9

14.2

58.0

12.7

H 43

6.2

11

55

27.0

11

55

27.4

12

7

11.2

12

3

25.9

227.7

144.3

146.8

213.6

2

196.1

H 42

23.96

11

54

46.33

11

54

46.68

12

0

30.51

12

2

48.15

May. 6. 1856

Ill. War

J. 7. 7.

3.6. + 0°	1	578.8. + 0°	39	(580). 8. + 0° 32	584.8-9. 0°	32	585.8-9. + 0°	31	59
17.4		15.9		19.1		37.5		0.7	
31.2		29.6		32.7		51.0		14.2	
45.7		43.8		47.2		5.6		28.7	
58.8		56.9		0.3		18.7		41.8	
12.5		10.9		14.2		32.6		55.7	
26.2		24.7		27.9		46.0		9.4	
12 12 39.7 12	15	37.8 12	19	41.0 12	26	59.4 12	30	22.6	12
231.5		219.6		182.4		250.8		173.1	
12 11 58.78 12	14	57.08 12	19	0.34 12	26	18.69 12	29	41.87	12

May 6.

Ill. Mar

p. 717

	594.8-9. + 0° 3	598.7. + 0° 51	(604). 8-9. 0° 0	609 8. + 0° 11	2 Virginis
7	21.1	16.9	26.4	6.7	36.4
2	35.0	3.7	40.1	20.4	50.1
7	49.4	44.9	54.4	34.8	5.0
8	2.7	58.1	7.7	46.0	18.2
7	16.3	12.0	21.4	1.9	32.1
4	30.1	28.7	35.5	15.4	46.2
6	12 44 43.2 12	49 38.8 12	56 48.4 13	16 28.8 13	18 59.6
1	197.8	227.1	238.5	156.0	247.6
7	12 44 02.54 12	48 58.15 12	56 7.64 13	15 48.00 13	18 18.23

1856. May 6.

9th. War

17.7. "		"	
(15). 7-8. - 0° '4	(6/6). 7-8. 2° '26		
53.9	56.2		
7.6	10.0		
21.9	24.2		
35.1	37.7		
49.0	51.4		
2.5	5.1		
13 22 15.7	13 28 18.4		
185.7	203.0		
13 21 35.10	13 27 37.57		

May. 12. 1886

9^h 12. 7^m

M.C. 03.

Moon 10

J. Lewis?

~~Hyd. d. Cat?~~

45.04 1.1

+B. 28'

+20° 31' 45.33 5.9

11 12 45.38 1.3

10 33 11.5

Probably 1 hour wrong

X 32 28.96 11 12 45.25

May 14.

all. 2 an

M.C.B.		"		"		"		"		comp. s.f.				
2 Leonis		2 Leonis		2 Hydrea		2 Leonis								
	43.7		26.9		10.1		34.9				36.0			
	57.2		41.1		23.9		48.2				49.1			
	11.2		55.9		38.1		2.0				2.9			
	25.3		10.7		52.2		15.8				16.7			
	38.9		24.9		5.9		29.0				30.0			
	53.7		40.3		20.7		43.4				44.3			
10	2	7.7	11	7	54.9	11	13	34.8	11	21	56.9	11	21	58.0
	237.7		254.7					185.7			280.2			237.0
	177.7		74.7					365.7			110.2			117.0
10	1	25.38	11	7	10.67	11	12	52.24	11	21	15.74	11	21	16.71

May 14, 1856

W. C. O.

Ear
J. L. White

β Virginis		Moon T. V.		Mars 1		Mars 2		γ Virginis	
	14.9		33.2		52.8		53.2		35.9
	28.1		46.5		6.2		6.9		49.0
	41.9		0.6		20.2		20.7		2.7
	55.7		14.5		34.2		34.7		16.4
	8.8		28.0		47.6		48.2		29.9
	23.3		42.8		2.2		2.8		44.1
11 44	37.0 12	0	56.9 12	0	16.0 12	1	16.7 12	13	57.7 10
	209.7		222.5		179.2		183.2		235.7
	389.7		102.5		239.2		243.2		115.7
11 43	55.67 12	0	14.64 12	0	34.17 12	0	34.74 12	13	16.53 10

May 13.

Dec. Ear

J. T. T.

 α Leonis

" (557).5. - 0° 1' 558.7. + 0° 8' (561).6-7 + 0° 30' 562.8-9. + 0° 15'

9			43.9			37.8			36.9			44.2			42.1
0			57.2			51.1			49.9			57.4			55.3
7			11.4			4.9			3.7			11.0			9.0
4			25.5			18.7			17.5			24.8			22.9
9			39.1			31.9			30.7			38.0			36.1
1			53.8			46.2			45.0			52.5			50.3
7	10	2	7.9	11	30	59.8	11	34	58.8	11	43	6.2	11	49	4.1
7			238.8			250.4			242.5			234.1			219.8
7			178.8												
3	10	1	25.54	11	30	18.63	11	34	17.50	11	42	24.87	11	48	22.83

May. 15. 1856.

9ll. Σ are

17.7.		" "		" "		" "		" "	
(1847). 8-9. +0° 26		10 Virginis		7 Virginis		572.8. +0° 39		β Corvi	
—		—		36.0		—		32.0	
—		+2° 42 2.69 35.2		49.2		—		45.4	
—		2.95 49.2		3.0		—		59.7	
49.53 49.5		2.93 2.9		16.8		0.03 0.0		13.7	
49.71 2.9		2.80 16.0		29.9		0.01 13.2		27.1	
49.64 17.2		2.91 30.5		44.2		59.94 27.5		41.7	
11	8549.75 30.9	12	3 2.90 44.1	12	13 38.0	12	10.05 41.2	12	43 59.8
	100.5		518 177.9		2 37.1		81.9		275.4
	263				177.1				95.4
11	54 49.66	12	3 2.86	12	13 16.73	12	15 0.01	12	43 13.63

The Moon

are inter-

May. 15

J. F. F.

Moon 10

Messier

Ill. Ear

Messier A

ψ Virginis

θ Virginis

0			49.9			48.1			49.0			55.1			33.7
4			4.2			1.5			2.5			8.7			46.9
7			19.3			15.7			16.6			22.8			0.7
7			34.0			29.6			30.6			36.4			14.2
1			48.4			43.0			44.1			49.9			27.6
7			4.0			57.7			58.7			4.4			42.0
8	12	28	18.7	12	44	11.7	12	44	12.8	12	48	18.1	13	3	58.7
4			178.5			207.3			214.3			195.4			220.8
4			238.5									255.4			100.8
3	12	27	34.07	12	43	29.61	12	43	30.61	12	47	36.49	13	3	14.4

and β Corvi

= changed.

1856. May 16.

W. Ear.

4.7.7.

"

"

"

"

 β Leonis

1856

		4.7		47.9		44.9		31.8		45.2					
		18.0		1.0		58.6		45.0		58.2					
		31.7		14.8		12.9		58.7		12.1					
		45.3		28.6		27.2		12.4		25.8					
		58.7		41.9		41.0		25.7		39.0					
		13.0		56.2		55.8		40.0		53.3					
//	34	26.6	//	39	9.9	//	43	9.9	//	47	53.8	//	53	7.0	//
		198.0			200.3			250.3			267.4			240.6	
//	33	45.43	//	38	28.90	//	42	27.19	//	47	12.49	//	52	25.80	//

May. 16.

J. F. F.

Oll. Ear

B Corri

2		2.8		42.0		7.0		40.1		
2		15.9		55.2		20.2		53.3	-22° 36'	34.144.4
1		29.7		8.9		34.0		7.0		34.0819.2
8		43.3		22.7		47.7		20.7		34.2334.2
0		46.5		31.9		0.9		34.0		34.3248.6
3		11.0		50.2		15.4		48.4		34.25 4.1
0	11	56	24.4 12	2	4.0 12	5	29.0 12	11	2.0 12	28 34.33 18.9
6		183.6		218.9		154.2		205.5		
0	11	55	43.37 12	1	22.70 12	4	47.74 12	10	20.79 12	27 34.23

May. 16. 1856

all. Ear

J. F. F.

1856

		14.7			46.1			7.7		28.1		29.58	48.5	
		28.0			59.2			20.9		41.3		29.76	2.3	
		41.7			13.0			34.6		55.0		29.64	15.9	
		55.4			26.9			48.2		8.9	12	46	29.8	
		8.7			40.0			1.6		22.0		29.83	—	
		22.9			54.2			16.0		36.4		—	—	
12	32	36.7	12	36	8.0	12	38	29.6	12	43	50.1	—	—	
		208.1			247.4			158.6		241.8				
12	31	55.44	12	35	26.77	12	37	48.37	12	43	8.83	12	46	29.70

May 20/21

M. C. O.

Sec. E an

α Andromedae

γ Pegasi

54.4

61.3

9.4

4.8

25.0

19.0

40.6

33.2

58.4

47.0

11.9

1.8

0 2 27.3

0

7

15.6

224.0

172.7

0 1 40.87

0

6

33.24

1856. May 21.

J.7.7.

(50).8. + 0° 32'

Dec. Jan-

5	—	37.9	49.8	—	46.1
04.2636.8	51.1	3.0	—	59.3	
4.24 50.5	4.9	16.5	11.83 58.1	13.1	
4.13 4.1	18.6	30.4	11.93 11.9	26.8	
4.24 17.6	31.9	43.9	11.81 25.0	40.2	
4.34 31.9	46.1	58.0	11.94 39.5	54.4	
12 19 4.35 45.5 12	22 59.9 12	47 11.9 12	52.85 53.0 12	56 8.1 12	12
186.4	250.4	213.5		248.0	
12 19 4.29 12	22 18.63 12	46 30.70 12	52 11.87 12	55 26.86 12	12

May 21.

J.F.F.

ell. Ean

 α Virginis

1		28.2		4.0		—		—		32.0					
3		41.3		17.1		—		—		45.1					
1		58.2		30.8		16.74	3.0	—		58.9					
8		9.0		44.3		16.83	16.8	—		12.6					
2		23.2		57.8		16.91	30.1	22.19	35.6	25.9					
4		36.6		12.1		16.84	44.4	22.18	50.2	40.1					
1	12	58	50.2	13	25.8	13	107.04	58.2	13	19	22.16	4.0	12	23	53.9
0		243.7		191.9											278.5
36	12	58	9.10	13	0	44.56	13	10	16.87	13	18	22.18	13	23	12.64

May 21. 1856

J. F. F.

J. F. F.

		13.9		—		5.7		15.38	34.9		—	
		27.0		56.66	29.2	18.9		15.46	48.0		—	
		40.9		56.74	43.0	32.7		15.44	1.7		—	
		54.6		57.03	57.0	46.4		15.53	15.5		19.73	19.7
		7.9		56.71	9.9	59.7		15.51	28.7		19.81	33.0
		22.2		57.04	24.6	14.1	13	54.5.64	43.2	14	0.19.64	47.2
13	27	35.9	13	32.57.05	38.2	13	36	27.7	—		—	14
		202.4						205.2				
13	26	54.63	13	31	56.87	13	35	46.46	13	54	15.53	14
											0	19.73
												14

May 21.

J. F. F.

Dec. E. an

		26.5			25.2			58.8			41.2			35.4
		39.6			38.6			12.0			54.6			48.5
		53.5			52.2			25.8			8.4			2.1
		7.1			5.9			39.4			22.1			15.9
		20.4			19.0			52.9			31.3			29.1
		34.9			33.3			7.0			49.7			48.6
14	7	48.7	14	13	47.2	14	17	20.7	14	20	3.3	14	21	57.2
		230.9			221.4			216.6			214.6			231.8
14	7	7.27	14	13	5.91	14	16	39.51	14	19	22.09	14	21	15.97

May 21. 1856.

J. F. F.

B. A. C. 4878.

3.2

16.7

30.4

44.1

57.3

11.8

14 40 25.2

188.8

14 39 44.18

May 22

M.C.B.

Dec. 2 am

α^2 Geminor	α Canis Min.	β Geminor
—	49.0	27.8
+32° 12' —	2.1	42.9
—	16.0	58.3
8.23 8.2	29.7	14.0
8.22 23.8	43.0	29.1
8.43 41.0	57.6	48.4
7 26 8.37 57.0	7 33 11.2	7 37 1.0
	208.6	218.5
7 26 8.31	7 32 29.80	7 36 14.07

May ²⁴/₂₇. 1856

W.C.B.

Ill. Ear

5 Pegasi

α Pegasi

21.2

39.0

38.0

52.8

48.8

7.0

2.8

21.0

16.0

34.7

30.7

49.6

22 31 44.7 22 59 3.8

199.2 207.9

22 31 2.74 22 58 21.13

May 29.

P.S.C.

Ill. Ear

 α Hydraz β Leonis γ Vir Maj α Regan?

35.7

47.7

51.9

28.7

48.9

1.8

14.9

40.0

2.7

15.6

38.5

57

53.3

16.7

29.7

2.1

• 30.0

43.4

34.9

44.4

58.3

49.7

9 20 58.1 h

43

12.5 11

48

13.0

236.5

208.5

205.0

9 20 16.64 4

42

29.79 11

47

3.57

May 29/30. 1856

Jl. Ear

W.C. O.

D.S.C.

Pegasi

Polaris

	—	0	40	45.0	5.5
+14° 26	—	32 214	48	46.1	47.8
	—		57	46.2	47.3
21.73	21.7		6	46.7	48.7
21.78	33.4		15	46.7	24.2
21.74	50.2	1	24	47.1	49.4
23 59	21.81	4.3			

23 58 21.761 6 46.30

May 30.

Ill. Ear

J. 7.7.

 α Virginis

42.7

56.2

10.1

29.1

37.6

52.0

13 19

6.1

228.8

13 18

29.10

May. 31. 1856

W.C. B.

M. Ear

J. F. F.
22. Cal.

W.C. B.		M. Ear		J. F. F.		22. Cal.		W.C. B.	
α Urs Maj		δ Leonis		δ Hyd. d. Aur.		α Virginis			
—	—	30.0	—	13.2	—	—	—	42.8	—
+62° 32'	—	44.2	—	27.0	—	5.56	38.1	56.1	—
—	—	59.0	—	41.1	—	5.84	32.1	10.1	—
—	—	13.6	—	55.1	—	5.83	31.8	24.1	—
35.91	4.11	27.9	—	8.9	—	5.81	19.0	37.6	—
35.94	35.7	43.1	—	23.8	—	5.84	23.4	52.1	—
10	57.88 5.11	7	57.911	13	37.813	135.84	47.013	19	6.0 13
			275.7		206.9			228.8	
11.25	55.7 35.9211	7	13.6711	13	55.2713	13	5.7913	18	24.118 13

May 31.

S. D. B.

Ill. Ear

621. - 0° 2'			622. - 0° 2'			624. + 0° 19'		
8	48.0	—	—	—	—	54.4		
1	1.0	54.16 26.7	—	—	36.86 9.4	7.6		
1	14.9	54.14 40.4	9.44 55.7	36.83 23.1	21.2			
1	28.7	54.13 54.1	9.83 9.8	36.83 36.8	34.9			
6	42.0	54.21 7.4	9.21 22.4	36.91 50.1	48.2			
1	56.4	54.44 22.0	9.44 37.0	36.84 4.4	2.4			
0	13 39 10.0 13	40.54 35.7 13	43.54 50.7 13	45.84 18.0 13	50 16.1			
8	201.0				184.8			
8	13 38 28.7 13	39 54.27 13	43 9.49 13	44 36.85 13	49 34.97			

May 31.

J. F. F.

J. F. F.

658.8-9-0° i

9			47.1			3.0			31.6			17.4			32.8
1			0.5			16.2			44.7			30.6			46.0
9			14.0			30.2			58.5			44.3			0.0
3			27.9			43.9			12.1			57.9			13.6
4			41.0			56.9			25.3			11.3			26.8
7			55.2			11.4			39.9			25.7			41.2
1	14	20	9.1	14	32	25.1	14	35	53.4	14	39	39.2	14	44	54.9
4			194.8			186.7			265.5			226.4			215.3
4	14	19	27.83	14	31	43.81	14	35	12.21	14	38	58.06	14	44	13.61

May 31. 1856.

177.

See Ear

6 1.8-9. + 0° 43

694 8-9. + 0° 41

56.3

2.1

9.9

31.9

9.6

0.56 33.1

15.7

23.1

45.1

23.2

0.54 46.8

29.3

36.9

58.9

36.9

0.73 0.7

43.2

50.7

12.5

50.1

0.61 13.8

56.2

3.9

25.8

4.7

0.74 28.3

10.7

18.3

40.1

14 48 18.2 14

34 0.84 42.0 14

54 24.3 14

57 31.9 15

4 53.8 15

199.0

181.5

174.7

268.1

14 47 37.00 14

34 0.67 14

53 43.07 14

56 50.67 15

4 12.59 15

May 21.

Ill. Ear

p. 747		" "		" "		" "	
696.7-8. + 2° 55'		β Librae					
9	7.6	—		49.2	50.7	70.1	
1	20.7	8	51	2.8	3.8	33.4	
9	34.4	3.60	49.7	16.1	17.5	47.1	
5	48.0	3.73	3.7	30.0	31.2	1.0	
8	1.2	3.55	16.9	43.1	44.4	14.1	
1	15.7	3.71	34.6	57.8	58.9	28.6	
8	15 8 29.3	15 103.65	41.2	15 11.5	15 19 12.6	15 22 42.2	
1	156.9			211.3	219.1	186.5	
9	15 7 48.13	15 10 3.65	15 14 30.19	15 18 31.30	15 22 0.93		

May 31. 1856.

Vell. Ear
L.P. B.

α Serpenti

1856phae.pro

J.7.7.		" "		J.7.7.		" "									
				α Serpentin											
	30.7		11.0		17.7		16.0								
	43.9		24.3		31.0		29.4								
	57.8		38.0		44.9		43.2								
	11.4		51.8		58.7		56.9								
	24.8		4.9		12.0		10.2								
	39.0		19.5		26.5		24.8								
15	25	52.8	15	34	32.9	15	38	40.3	15	41	38.2	15	46	6.2	15
		260.4			182.4			231.1			218.7			235.0	
15	25	11.49	15	33	51.77	15	37	58.73	15	40	56.96	15	45	25.00	15

May 31.

B. P. B.

All. Ear

	727. 8. + 0° 2'0		733. 8-9 + 0° 4'6		736. 7. + 1° 5'		(742). 9. + 0° 1'2		
4		25.8		31.0		17.0		45.7	54.7
4		38.8		44.2		30.1		59.0	8.0
1		52.1		58.0		43.9		12.6	21.8
0		6.3		11.8		57.7		26.4	35.4
2		19.7		25.0		11.0		39.6	48.8
7		32.9		39.3		28.0		52.9	3.0
2	15	57	47.6	15	54	53.0	15	58	39.0
0		224.6		262.2		223.7		244.9	188.5
00	15	51	6.37	15	54	11.74	15	57	57.67
							16	5	26.41
							16	5	31.50

May 31, 1856.

B.P.B.

All. Ear

(1856). 8. + 0° 7			(755). 8-9 + 0° 51			2 Scorpii			770. 8. + 0° 16			774. 7. + 0° 33		
		40.5			0.1			38.1			34.9			52.7
		53.8			13.3			52.9			48.2			7.0
		7.3			27.0			8.0			1.9			20.8
		21.1			40.7			23.6			15.6			34.4
		34.5			54.0			38.0			29.0			47.7
		48.7			8.2			54.2			43.1			2.0
14	9	2.2	16	16	22.0	16	22	9.3	16	25	57.0	16	31	15.7
		208.1			165.3			224.1			229.7			181.3
14	8	21.16	16	15	40.76	16	21	23.44	16	25	15.67	16	30	34.47

May 31.

G.P.B.

Jee. Ear

" 779.8-9.+0° 49'				" (784).8.+2° 11'				" 787.8-9.+0° 35'				" 790.7.+0° 4'			
	8.1			6.0				51.1				7.4			26.4
	21.2			19.1				4.3				20.7			39.8
	35.0			32.9				18.0				34.2			53.5
	48.9			46.7				31.9				46.0			7.2
	2.1			59.9				44.9				1.2			20.3
	16.6			14.1				69.3				11.6			34.8
16	35	30.1	16	43	28.0	16	47	13.1	18	54	29.2	16	57	48.4	
		162.0			206.7			222.6			156.3			230.4	
16	34	48.86	16	42	46.67	16	46	31.80	16	53	48.04	16	57	7.20	

May. 31. 1856.

G.P.B.

Hl. East

G.P.B.		Hl. East		G.P.B.		Hl. East	
89.8. + 0° 44'	(802). 7. + 0° 32'	29.9	40.6	806.8. + 0° 59'	(809). 7. + 0° 57'	10.8	50.1
43.1	53.8	43.1	53.8	3.2	32.7	38.7	17.0
56.9	7.7	56.9	7.7	30.7	0.2	53.0	44.0
10.7	21.1	10.7	21.1	21.5	27.8	6.6	13.4
24.0	34.6	24.0	34.6	12.0	41.4	58.2	181.2
38.2	48.9	38.2	48.9	17	20	17	17
51.9	2.5	51.9	2.5	17	17	17	17
284.7	209.2	284.7	209.2	17	17	17	17
10.67	21.31	10.67	21.31	16	30.74	17	20
17	8	17	8	17	17	17	17

May 31.

S. D. D.

J. E. Ear

P. J. C.

	816.8. + 0° 9'	819.8-9. + 0° 6'	822.8-9. + 0° 51'	824.8. + 0° 25'	827.8-9. + 0° 29'
3	42.8	31.2	43.9	56.1	10.1
7	56.0	44.3	57.9	9.8	23.4
4	9.9	58.0	11.7	23.0	37.1
2	23.6	11.9	28.4	36.9	61.0
4	36.8	25.0	38.4	50.2	4.3
8	51.1	39.3	52.8	4.6	18.7
4	17 26 4.9	17 28 53.1	17 34 6.7	38 18.1	43 32.2
2	225.1	262.8	236.8	198.7	176.8
17	17 25 23.59	17 28 11.83	17 33 25.26	17 37 36.96	17 42 50.97

May. 31. 1856.

P. S. L.

Mr. Ean

[illegible]

May 31.

P. S. C.

All East

	(861).7. + 0° 58	(867).8. + 0° 16	(871).9-6. + 0° 7	(879).8. + 0° 17	(880).8-9. + 0° 20
>	52.9	14.0	58.0	03.6636.2	41.2
0	6.2	27.1	11.0	7.11.7350.0	54.7
>	20.0	41.0	24.7	Int. 3.43 3.4	8.2
3	33.7	54.7	38.4	3.7116.9	22.1
>	47.0	8.0	51.9	3.4431.0	31.4
0	1.3	22.2	6.118	24 3.6544.8	49.6
>	18 11 14.918	17 36.118	21 19.7	18 25-	3.2
0	176.0	203.1	209.8		214.4
3	18 10 33.7118	16 54.7318	20 38.5418	24 3.6018	24 22.06

May 31. 1856.

D.S.C.

All. Eau

(22). 7. + 0° 50 (888). 7. + 0° 26								β Lyrae	
56.9	13.1	19.4	31.3	44.7					
9.9	26.3	32.5	47.6	1.1					
24.0	39.9	46.2	4.2	17.1					
37.7	53.7	59.8	20.4	33.7					
50.9	7.0	13.1	35.9	49.2					
5.4	21.3	27.6	53.5	6.5					
18 31 18.9 18 35 35.1 18 38 41.2 18 43 9.7 18 46 22.9 18	203.7 18 34 53.7 18 37 59.9 18 42 20.3 18 45 33.6 18								
	196.4	239.8	202.6	175.2					

1856. May 31.

Sea Ear

9.7.7.

9.6.8. + 0°

59

43.1

56.1

10.1

23.9

37.1

51.4

19 15 5.0

226.7

19 14 23.82

Jan 12.

All. Ear

J. H. H.

Polaris

 α Aries

88° 32' 21.1	—	5.0	
—	—	19.0	
0 7 46.0 47.1		33.9	
6 46.9 43.9		48.7	
—		3.0	
1 24 46.5 48.8		18.8	
33 47.3 48.3	2 0	33.6	
		167.0	
1 6 46.18	1 59	48.86	

1856. June 2.

Ill. West

J. F. F.

p. Corvi

—	—	29.9	32.0	47.2
50.36 22.8	—	43.4	41.8	0.6
50.29 37.1	—	57.9	59.9	18.0
50.47 50.5	—	11.1	13.1	28.3
50.37 4.1	—	24.7	27.0	42.0
50.45 17.9	—	38.4	40.6	55.7
50.32 31.0	43	51.6	52	54.0
257.0	12	272.4	56	9.0
197.8	12			
36.47	12	37	50.38	12
11.00	12	43	13.20	12
28.26	12	55		

June 2.

J. 7. 7.

J. 7. 7.
W. C. B.J. 7. 7.
α VirginisP. S. C.
α Serpentis

1855

2			29.0	—				37.0		41.8		16.8				
6			42.8	—				50.3		55.7		30.6				
0			57.2	—				5.9		10.3		45.0				
3			10.4	45.93	45.9			18.1		23.7		58.1				
0			24.0	45.87	59.6			32.0		37.8		12.0				
7			37.8	45.74	13.2			45.8		51.5		25.9				
0	12	58	51.0	13	1	45.82	26.1	13	10	59.0	13	19	4.9	15	38	89.2
8			252.2					248.1		225.7		227.6				
26	12	58	10.3	13	0	45.84	13	10	18.30	13	18	23.67	15	37	58.23	

June 2, 1856.

P.S.L.

d. M. W.

9.9. + 0° 40	725.8. + 0° 44	727.8. + 0° 20	732.8.9. + 0° 46	736.7. + 1° 5	(74
43.9	—	—	30.0	15.8	
58.4	—	—	43.5	29.6	
12.8	7.09 53.9	5.79 52.6	57.9	44.0	
25.9	6.87 6.9	5.77 5.8	11.0	57.0	
39.7	7.07 20.8	5.97 19.7	25.0	10.9	
53.4	7.04 34.5	5.74 33.2	38.7	24.5	
15 43 6.0	15 476.92 47.6	15 51 5.92 46.6	15 54 51.8	15 58 37.9	16
240.1	163.7	157.9	257.9	219.7	
15 42 25.73	15 47 7.00	15 51 5.84	15 54 11.13	15 57 57.10	16

June 2.

P.S.C.

U. M. 11. 11. 11.

1856phae.

(742). 9. + 0° 12				748. 8. + 0° 7				(723). 8. + 0° 11				α Scorpii				
8	—			53.7	—			59.0	—			37.0				
6	—			7.3	—			12.5	—			52.2				
0	25.79 12.6			21.9	—			26.9	—			8.0				
0	25.87 25.9			35.0	—			40.2	—			22.9				
9	25.87 39.6			48.8	20.67 34.4			53.9	—			38.1				
5	25.74 53.2			2.2	20.54 48.0			7.7	—			53.5				
9	16	6	25.82 6.5	16	6	15.6	16	9	20.52	1.2	16	16	21.0	16	22	8.2
7	137.8			184.6	—			221.2	—			218.9				
10	16	5	25.82	16	5	34.93	16	8	20.58	16	15	40.17	16	21	22.84	

June 2, 1856

O.S.C.

J.H. Wier

		"		"		"			
		774.7. + 0°	22	779.8-9. + 0°	49	785.7. + 0°	17		
—			52.9		7.1		50.0	—	
—			6.1		20.7		3.7	—	
—			20.9		35.0		18.0	—	
—			34.0		48.3		31.0	—	
—			47.6		2.0		44.9	—	
—			1.4		15.8		58.6	16	57 34.5
16	25	55.7	16 31	14.6	16 35	29.0	16 47	12.0	— 10
				177.9		157.9		218.2	
16	25	15.02	16 30	33.99	16 34	48.27	16 46	31.17	57 6.64 10

June 3.

W.C.D.

Dec. War

 α Louis

43.6

59.7

19.3

27.9

42.0

58.9

9.7

254.1

10 1 27.87

1856 June 9.

W.C.B.		" "		Jll. West		" "		" "		" "	
Moon 10		β Leonis		γ Urs Maj		comp. 12 Can. Ven.		12 Can. Ven.		12 Can. Ven.	
	30.1		46.3		—		9.9		11.0		
	44.3		0.4	+54° 30	1.26 13.8		27.3		28.4		
	59.0		15.3		1.12 38.4		46.0		47.2		
	12.8		28.9		1.16 1.2		3.0		4.1		
	26.7		43.3		1.15 24.8		20.6		21.8		
	41.0		57.5		1.11 48.4		38.2		39.4		
11	59	54.8	11	43	11.1	48.14 11.2	12	50	55.2	12	50
	268.7		202.8		94		200.2		208.3		0
	88.7						20.2		28.3		
11	59	12.67	11	42	28.97	11	47	1.16	12	50	2.89
										12	50
											4.04
											0

June 7/10.

M.C. B.

Ill. West

 α Andromedae

55.7

11.1

27.3

42.4

58.0

13.7

28.7

236.9

42.4

