

KG
11365
106

B.35

No. 35

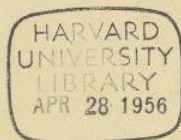
*Reduction of Transits
March 27. 1850 to Nov. 16. 1860.*

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KG-11365.106



KG-11365,106



March. 27. 1860.

L. P. B.

Ill. W³

S.V. D.		"		"		"		"						
	30.1		48.0		59.3		13.0		15.3					
	34.2		52.7		3.5		17.6		19.8					
	38.7		56.4		8.0		21.6		24.0					
	42.9		0.5		11.9		26.1		28.2					
//	52	47.2	//	53	5.2	//	54	16.2	//	58	30.4	12	1	32.7
	193.1		162.8		98.9		108.7		120.0					
//	52	38.62	//	52	56.56	//	54	7.78	//	58	21.74	12	1	24.00

March. 27.

G. P. B.

M. West

		11.3			12.5			9.9			49.1		21.5		
		13.8			16.6			13.8			53.1		25.7		
		19.7			20.4			17.4			56.9		29.4		
		23.8			24.3			21.5			0.7		33.7		
12	15	28.0	12	19	28.2	12	21	25.3	12	33	4.8	12	35	37.8	12
		98.6			102.0			87.9			164.6			148.1	
12	15	19.72	12	19	20.40	12	21	17.58	12	32	56.92	12	35	29.62	12

March 27.

L.P.B.

Ill. West

					"			"			"			"	
5			15.8				50.9			33.7			33.7		7.1
7			20.0				55.3			37.9			37.6		11.2
4			24.1				59.4			41.5			41.6		14.8
7			28.2				3.5			45.7			45.5		18.5
8	12	39	32.6	12	42	7.8	12	55	49.8	13	56	49.7	13	0	22.6
1			120.7				176.9			208.6			208.1		74.2
62	12	39	24.14	12	41	59.38	12	55	41.72	13	56	41.62	13	0	14.84

March 27. 1860

G. P. B.

Jl. Wier

" Polaris S. P.

44.9

48.8

52.5 13 11 9.60

56.4

13 3 0.3

202.9

13 2 52.58

March. 27.

G.P.B.

M. East

			"			"			"			"			"
		9.6			54.2			53.7			26.0			16.7	
		13.5			57.9			57.7			30.2			20.2	
		17.1			2.0			1.7			34.0			23.7	
		—			5.4			5.1			37.8			27.1	
13	38	—	13	40	9.3	13	42	9.1	13	46	41.7	13	55	30.1	
					128.8			127.3			169.7			117.8	
			13	40	25.76	13	42	1.46	13	46	33.94	13	55	23.56	

March. 27. 1860.

L. P. B.

Ill. Ear

		17.1			15.4			25.0			24.4			4.6	
		20.9			19.0			28.7			29.1			8.8	
		24.2			22.4			32.2			33.5			12.7	
		27.5			25.7			35.5			37.8			17.4	
14	1	31.4	14	4	29.3	14	7	39.2	14	21	42.3	14	25	21.5	14
		121.1			111.8			160.6			167.1			65.0	
14	1	24.22	14	4	22.36	14	7	32.12	14	21	33.42	14	25	13.00	14

March. 27.

G.P.B.

Ill. W. R.

		0.6			6.2			24.1			24.0			30.5	
		4.9			10.7			28.6			28.9			35.9	
		8.8			14.6			33.0			32.6			40.4	
		12.8			18.9			36.8			36.5			44.8	
14	40	17.1	14	43	23.0	14	45	41.3	14	48	41.5	15	3	49.6	
		44.2			73.4			163.8			163.5			201.2	
14	40	8.84	14	43	14.68	14	45	32.76	14	48	32.70	15	3	40.24	

March. 27. 1860

M. East

G.P.B.

"

8.4

—

13.2

28.0

17.9

32.7

22.6

37.3

15 9 27.4 15 0 42.0

89.5

15 9 17.90

March. 30. 18 60

A.H.

M. East

♂ Gemini			Moon TO			α Can. Min			β Gemini			γ Gemini		
		34.0			26.4			47.1			33.0			44.0
		37.9			30.4			50.7			37.1			48.0
		41.5			34.3			54.2			41.0			51.8
		45.2			38.1			57.6			44.8			55.6
7	15	49.2	7	27	42.2	7	36	1.2	7	40	48.9	7	48	59.8
		207.8			171.4			210.8			204.8			259.2
7	15	41.56	7	27	34.28	7	35	54.16	7	40	40.96	7	48	57.84

1860. Apr. 7

A.H.

M. East

y Cancri

ε Hydrae

2 Mir. Maj.

37.9

23.3

35.3

41.7

26.9

40.8

45.4

30.4

46.1

49.1

33.9

50.9

8 28 52.9 8

43

37.5 8

53

56.6

227.0

152.0

229.7

8 28 45.40 8

43

30.40 8

53

45.94

Apr. 12

A.H.

Ill. East

Ws. Maj.

34.7

40.1

46.0

51.5

9 23 57.5

229.8

9 23 45.96

Apr. 13. 1860

M. East

A. H.

p. Lewis

" Mrs. Maj.

38.2

9.0

41.9

16.7

45.3

24.3

48.8

31.7

10 25 52.4 10 55 39.4

226.6

121.1

10 25 45.3 210 55 24.22

Apr. 17

M. East

A.H.

 γ Leonis

"

 ρ Leonis

33.3

44.9

37.0

48.6

40.8

52.1

44.5

55.6

10 12 48.3 10 25 59.2

203.9 260.4

10 12 40.78 10 25 52.08

Apr. 24

A.H.

M. East

Mrs. Maj. & Hydrae

Mrs. Maj.

3.4

12.4

54.7

8.7

16.0

0.6

13.9

19.5

6.2

19.1

22.9

11.8

8 50 24.5-9 21 26.6 9 24 17.8

69.6

97.4

91.1

8 50 13.92 9 21 19.48 9 24 6.22

Apr. 26

A.H.

M. East

l Leonis		x "Mrs. Maj."		x "Leonis"	
	27.2		30.2		21.3
	31.0		38.0		24.9
	34.4		45.5		28.3
	37.4		52.9		31.7
11	42	41.7	11	56	0.9
				11	58
					35.4
	172.1		167.5		141.6
11	42	34.42	11	55	45.50
				11	58
					28.32

Apr. 27

A.H.

M. East

		" Orionis		" Can. Maj.		" Can. Min		" Geminae		" Moon 10		
		8.7		31.6		32.1		17.8		4.4		
		12.4		35.3		35.9		22.0		8.4		
		15.8		38.9		39.3		25.8		12.2		
		19.2		42.3		42.8		29.7		16.0		
15	48	22.96	39	46.27	32	46.47	37	33.88	5	19.8	8	
		79.0		194.3		196.5		129.1		60.8		
15	48	15.806	39	38.867	32	39.307	37	25.828	5	12.16	8	

Apr. 27

A.H.

M. East

S Cancri		ϵ Hydrae		α Aquilae		β Aquilae	
	17.8		55.9		32.4		1.4
	21.4		59.5		36.0		5.1
	25.0		3.0		39.5		8.6
	28.6		6.4		43.0		12.0
8 37	32.5	8 40	10.0	19 44	46.6	19 49	15.6
	125.3		134.8		197.5		42.7
8 37	25.06	8 40	2.96	19 44	39.50	19 49	8.54

Apr. 30.

M. Ear

H.P. 7.

 α Persei β Leonis γ Urs. Maj.

54.2

7.0 11

47 4.0

~~74.~~

1

5.1

14.5

15.8

3

15

16.1

11

42

21.9

28.1

10

75.4

43.4

47.9

3

15

5.13

11

42

14.47 11

47

15.97

10

May 3. 1860.

A.U.		M. East		U.P.T.	
α Ues Maj.	χ Leonis	δ Leonis	Moon 10	λ Virginis	
33.0	26.1	47.7	44.5	11.4	
42.7	29.9	21.4	48.2	15.0	
57.4	33.2	25.3	52.0	18.4	
50.2	36.2	28.8	55.5	22.0	
10 56 5.5 10 57 40.4 11 7 32.8 13 37 59.6 14 12 25.7					
190.8	165.8	126.0	259.8	92.5	
10 55 50.16 10 57 33.16 11 7 25.20 13 37 51.96 14 12 18.50					

May 4.

H.P.V.

M. East

89 Virginis

2 Virginis

Moon 10

20 Librae

53.0

9.1

56.8

29.5

56.7

12.8

0.5

33.4

0.3

16.3

4.2

37.5

3.7

19.7

7.9

41.0

13 43

7.6 14 12

23.7

14

37

12.0

14

56

45.0

121.3

81.6

81.4

186.4

13 43

0.26 14

12

16.32 14

37

4.28 14

56

37.38

May 10.

A.U.

Alt. East

 β Leonis γ Urs Maj.

10.7

38.7

14.5

44.9

18.1

50.8

21.6

56.5

11 42

25.4 11

47°

2.8

90.3

193.7

11 42

18.06 11

46

50.74

May 15. 1860

A.H.

M. East

 α Leonis α Urs Maj.

9.2

11.3

12.9

19.0

16.4

26.6

19.8

33.8

10 1 23.7 10 55 41.7

82.0 132.4

10 1 16.40 10 55 26.48

May 23.

M. Ear

A. H.		" "		M. Ear	
α Leonis		α Ues Maj.		δ Leonis	
	15.6		17.2		0.4
	19.3		25.1		4.3
	22.9		32.5		8.0
	26.3		39.8		11.6
10	1	29.9	10 55	47.6	11 7
	114.0		162.2		39.7
10	1	22.8	0 10 55	32.44	11 7
					7.94

May 25. 1860

H.P.T.

A.U.

M. East

 α Leonis β Leonis γ Vir Maj

9.3

17.2

45.0

13.0

20.9

51.2

16.4

24.5

57.2

19.7

28.0

3.0

11 30

23.6

42

31.8

47

9.2

82.0

122.4

165.6

11 30

16.40

42

24.48

46

57.12

May 28.

H. P. T.

M. East

γ Virginis			Moon 10		β Leonis		β Virginis		γ Uis Maj.	
		12.0		36.7		21.8		51.3		49.3
		15.5		40.3		25.4		54.8		53.5
		18.9		44.0		29.1		58.3		1.6
		22.1		47.4		32.6		1.7		7.1
12	13	25.9 11	27	51.2 11	42	36.3 11	44	5.3 11	47	13.4
		94.4		219.6		145.2		171.4		126.9
12	13	18.88 11	27	43.92 11	42	29.04 11	43	58.28 11	47	1.38

May 28.

H.P.I.		A.U.		M. East		" "		" "		" "		" "	
Corvi		Comp. 12 Can. Ven.		12 Can. Ven.		Polaris s.p.		α Virginis					
	22.6		52.8		54.0	3	30.6		16.7				
	26.3		57.3		58.5	5	55.2		20.2				
	29.9		1.7		2.9	8	9.1		23.8				
	33.6		6.0		7.3	10	25.1		27.3				
12	3	37.5	12 80	10.7	12 50	12.1	13 12	47.5	13 18	31.0			11
	149.9		128.5		134.8			167.5		119.0			
12	3	29.98	12 50	1.70	12 50	2.96	13 8	9.50	13 18	23.80			11

May 29.

A.H.

Ill. East

 β Leonis γ " " Maj ϵ Corvi γ " " Virginis

Moon 10

23.4

51.0

24.0

13.4

32.0

27.1

57.1

27.8

17.0

35.6

30.6

3.0

31.5

20.5

39.2

34.1

8.9

35.2

23.9

42.6

11 42

37.9

11

47

15.1

12

3

39.0

12

13

27.4

13

20

46.4

153.1

135.1

157.5

102.2

195.8

11 42

30.62

11

47

3.02

12

3

31.50

12

13

20.44

13

20

39.16

May 29.

M. Ear-

A.H.

β Corvi

X Virginis

ψ Virginis

Comp 12 Can. Ven. 12 Can. Ven.

30.7

30.3

33.5

54.2

54.6

34.6

33.8

37.2

58.8

0.1

38.2

37.4

40.6

3.3

4.6

41.9

40.8

44.0

7.7

8.8

12 27 44.9/2 32 44.4/2 47 47.6/2 50 12.3 12 50 13.6 13

191.3 186.7 202.9 136.3 82.7

12 27 38.26/2 32 37.34/2 47 40.58/2 50 3.26 12 50 4.54 13

June 5

A.M.

M. East

Polaris v.p.		5 " Virginis		γ " Maj.		γ " Bootis					
3	44.4		10.3		34.2		37.3				
6	8.9		13.8		39.8		41.1				
8	21.3		17.4		45.1		44.8				
10	35.4		20.4		50.2		48.3				
13	12	59.3	13	28	24.3	13	42	56.0	13	48	62.2
		169.3			86.5			225.3			223.7
13	8	21.86	13	28	17.30	13	42	45.06	13	48	44.74

June 12. 1860

A.H.

M. Ear

 ϵ Bootis α^2 Librae β Urs Min.

32.8

49.9

32.0

36.9

53.5

45.8

40.8

57.1

59.0

44.7

0.6

11.3

14 39 48.5 14 44 4.4 14 52 25.1

204.0

165.5

173.2

14 39 40.80 14 43 57.10 14 57 58.14

June 12.

A. H.

All Eat

γ Bootis		τ Virginis		α Pyxidi	
	41.9		12.7		27.7
	45.7		16.3		31.4
	49.4		19.8		35.0
	52.9		23.2		38.3
13 48	56.7	13 55	26.8	22 58	42.2
	246.6		98.8		174.6
13 48	49.32	13 55	19.76	22 58	34.92

June 14. 1860

A.H.

Alt. East

γ Urs Maj

γ Bootis

ε Virginis

α Bootis

39.6

42.9

13.7

58.3

45.2

46.5

17.3

2.0

50.4

50.3

20.7

5.8

55.9

53.8

24.1

9.3

13 43

1.4

13

48

57.7 13

55

27.7 14

10

13.2

192.5

251.2

103.5

88.6

13 42

50.50

13

48

50.24 13

55

20.70 14

10

5.72

June 18.

A.H.

M. East

 ψ Bootis β Librae

10.8

13.7

14.6

17.3

18.7

20.8

22.6

24.2

14 59

26.6 15

10

28.0

93.5

109.0

14 59

18.70 15

10

20.80

June 28.

H.P.T.

All. Ear

1860phae.

N.O.S.		B.A.C. 4700		B.A.C. 4722		Moon 10		20 Librae		21 Librae	
		8.1		35.6		27.9		47.3		9.4	
		9.9		39.2		31.9		51.6		13.0	
		13.5		42.8		35.7		55.2		16.7	
		16.8		46.4		39.5		58.8		20.4	
14	4	20.7	14 8	50.2	14 50	43.4	14 57	2.9	15 5	24.1	14
		67.0		214.2		179.4		215.8		83.6	
14	4	13.40	14 8	42.84	14 50	35.88	14 56	55.16	15 5	16.72	14

June 28

H.P.Y.

W. East

p Bootis

40.7

43.0

49.0

52.9

14 26 57.0

244.6

14 26 48.92

July 2.

U.P.T.

M. East
J. H. S.

x Virginis			5 Virginis			Moon I			Moon II			c Sagittarii		
		48.1			33.1			38.6			58.5			13.0
		52.2			36.7			42.6			2.7			17.0
		53.7			40.2			46.4			6.4			21.0
		59.0			43.6			50.4			10.3			24.9
13	19	2.813	28		47.218	57		54.718	54		14.118	59		29.0
		218.3			200.8			232.7			92.4			104.9
13	18	55.6613	28		40.1618	57		46.5418	54		6.4818	59		20.98

July 4

H.P.T.

Ill. East

α Bootis		ρ Bootis		ϵ Bootis		α^2 Librae					
	21.5		51.1		57.0		14.1				
	23.4		56.2		0.9		17.7				
	28.9		0.3		5.0		21.3				
	32.7		4.2		8.9		24.9				
14	10	36.4	14	27	8.4	14	40	13.1	14	44	28.8
	144.9		121.2		84.9		106.8				
14	10	28.98	14	27	0.24	14	40	4.98	14	44	21.36

July 6. 1860.

J. H. S.

Virginis

M. Earl

3.1

6.8

10.3

13.8

13 19 17.4

51.4

13 19 10.28

July 7

H.P.Y.

Alt. Ear

1 Bootis		2 Bootis		2 ³ Librae		5 ¹ Heculis		κ Ophiuchi	
	5.3		10.3		27.5		18.9		22.3
	9.5		14.3		31.1		23.0		26.1
	13.6		18.1		34.8		27.2		29.6
	17.6		22.0		38.1		31.2		33.1
14	27	22.0	14 40	26.2	14 44	41.9	16 37	35.6	16 52
	68.0		90.9		173.4		135.9		147.8
14	27	13.60	14 40	18.18	14 44	34.68	16 37	27.18	16 52
									29.56

July 11. 1860.

M. Ear-

T.H.S.

+ *Ophiuchi*α *Ophiuchi*

34.2

58.0

38.0

1.8

41.5

5.3

44.9

8.7

16 52

48.6

17

30

12.5

207.2

86.3

16 52

41.44

17

30

5.26

June 12

T. H. S.

W. Ear

Polaris s. p. α Virginis

4	51.5			58.3
7	16.8			2.1
9	29.0			5.4
11	36.0			9.2
13	14	9.6	13	19
				12.3
				87.3
			13	19
				5.46

July 14.

T. H. S.

M. East

x Leonis

36.3

40.1

43.4

46.9

10 2 50.7

217.4

10 2 43.48

July 16

7. H.S.

M. Sany
H.P.7. α Coronae α Serpentis β Librae

38.2

16.1

22.7

42.2

19.8

26.0

46.1

23.2

29.7

50.0

26.7

33.0

15 30

54.0

15

39

30.3

15

11

36.7

230.5

116.1

148.1

15 30

46.10

15

39

23.22

15

11

29.62

July 17.

H. P. J.

Bootis

Z. H. S.

 α Coronae

Oll. Eae

 α Lupen tis α Ceti α Tauri

13.9

43.0

20.8

56.5

51.7

17.6

47.0

24.7

0.2

56.0

21.3

50.8

28.0

3.5

24.9

54.5

31.4

7.0

2.6

14 11 28.8 5

20

58.8

15

39

34.9

2

57

10.6

6.4

106.5

254.1

139.8

77.8

14 11 21.30 5

20

50.82

15

39

27.96

2

57

3.56

July 17.

J. H. H.

M. East

 α Aurigae β Orionis γ Orionis

17.9

35.0

23.2

51.7

38.6

28.0

53.1

42.2

32.6

58.5

45.4

5 8

38.3

5

10

2.2

5

49

49.2

140.0

210.4

5 8

28.00

5

49

42.08

July 24

H.P.T.

T.H.S.

M.Eau

Boole's

Ophiuchi

" 8 Mos. Min.

48.0

59.6

18 7.6

51.7

3.0

19 9.7

55.4

6.7

20 7.1

58.9

10.0

21 3.3

14 12 2.8 17 31 12.7 18 22 4.7

216.8

93.0

32.4

14 11 55.36 17 31 6.60 18 20 6.48

July 28

H.P.V.

M. East

Librae		α Cor. Ber.	
	3.5		19.3
	7.2		23.4
	10.6		27.3
	14.0		31.0
14 54	17.8	15 13	35.1
	53.1		136.1
14 54	10.62	15 13	27.22

July 30.

N.P.Y.

M. E. J. H. S.

B Arietis

α Arietis

σ Sagittarii

δ Aquilae

Moon 10

30.8	53.0	12.1	3.5	18.3
34.5	57.0	16.0	7.0	22.4
38.4	0.8	19.9	10.5	26.3
41.7	4.4	23.6	13.8	30.1
44.6	8.4	27.6	17.5	34.0
191.0	123.6	99.2	52.3	131.1

1	31	38.20	44	0.72	18	31	19.84	19	3	10.46	19	11	26.22
---	----	-------	----	------	----	----	-------	----	---	-------	----	----	-------

July 30.

J. H. P.

κ^2 Sagittarii		ζ Sagittarii		γ Aquilae		α Aquilae		β Aquilae						
	48.3		48.8		13.0		33.8		3.2					
	52.0		52.7		16.6		37.6		6.7					
	56.0		56.4		20.0		41.1		10.2					
	59.7		0.0		23.4		44.4		13.1					
19	13	3.7	19	23	3.8	19	24	27.1	19	28	48.2	19	33	17.3
	209.7		161.7				100.1		205.1					50.9

19 12 55.94 19 22 56.34 19 24 20.02 19 28 41.02 19 33 10.18

July 31. 1860.

T.H.S.

M. Far

♂ Aquilae		h ² Pagittarii		f Pagittarii		γ Aquilae		α Aquilae	
	5.7		50.5		51.2		15.3		36.3
	9.2		54.6		55.0		19.0		39.9
	12.7		58.3		58.7		22.5		43.5
	15.9		2.1		2.2		25.8		46.7
19	3	19	13	19	23	19	24	19	28
	19.7		5.9		6.0		29.6		50.3
	63.2		171.4		173.1		112.2		216.7

19	3	12.64	19	12	58.28	19	22	58.62	19	24	22.44	19	28	43.34	19
----	---	-------	----	----	-------	----	----	-------	----	----	-------	----	----	-------	----

July 31.

M. E. an

J. H. S.

β Aquilae		s' Capricor		Capricor 2'		Moon 10		p Capricor						
	5.5		32.8		58.7		14.0		31.9					
	9.0		36.4		0.4		17.9		35.7					
	12.3		40.0		3.8		21.8		39.4					
	15.7		43.3		7.4		25.3		42.8					
19	33	19.4	54	47.3	19	55	11.1	20	4	29.3	20	5	46.8	
	61.9		199.8		79.4		108.3		196.6					
19	33	12.38	19	54	39.96	19	55	3.88	20	4	21.66	20	5	39.32

July 31.

M. Ear

J. H. S.

 α^2 Capricorn

6.0

9.8

13.4

16.7

20 16 20.6

66.5

20 16 13.30

Aug. 2.

U. P. T.

Alt. East

α Cor. Bor.		α " <i>Serpentis</i>		δ " <i>Cygni</i>		ϵ " <i>Capricorn</i>		γ " <i>Capricorn</i>						
	24.0		2.1		38.2		7.8		0.9					
	28.1		3.8		42.2		11.5		4.8					
	32.0		9.2		46.1		13.4		8.3					
	35.9		12.6		50.0		18.8		11.8					
15	13	39.9	15	22	16.2	20	51	54.2	20	59	22.7	21	17	13.6
		159.9			46.9			230.7			76.2			41.4
15	13	31.98	15	22	9.38	20	51	46.14	20	59	15.24	21	17	8.28

Aug. 2. 1861.

H. P. J.

M. Paul

Moon 110

+ Aquarii

o Aquarii

35.6

7.4

55.1

39.4

11.2

58.5

43.0

14.8

2.1

46.5

18.0

5.5

21 42

50.0

21

54

21.8

22

8

9.3

214.5

73.2

130.8

21 42

42.90

21

54

14.64

22

8

2.16

Aug 15.

H.P.T.

Ill East
A.H.

A.D.V.		" "		A.H.		" "		" "		" "				
β Scorpii		δ Ophiuchi		π Ophiuchi		β Draconis		α Ophiuchi						
	21.6		4.2		28.7		14.2		29.6					
	25.2		7.7		32.6		20.1		33.1					
	28.8		11.3		36.4		26.0		36.7					
	32.5		14.8		40.0		31.4		40.2					
15	42	36.3	15	52	18.4	16	58	44.1	17	12	37.2	17	13	44.0
	144.4		56.4					181.8			128.9			183.6
15	42	28.88	15	52	10.28	16	58	36.36	17	12	25.78	17	13	36.72

Aug. 25.

U. P. T.

M. E. ant
A. H.

		" "		" "		" "		" "		" "		" "		" "	
Ophiuchi		2 Scorpii		μ Sagittarii		Moon TD		8 Urs Min							
38.9		28.0		2.7		11.5		1	3.4						
42.5		31.9		6.0		15.7		2	4.0						
46.1		35.9		10.3		19.6		3	1.5						19
49.4		39.5		13.8		23.5		3	58.9						
15 52 53.3	16 6	43.5	18 51	17.8	18 58	27.7	19 4	59.7							
229.9		178.8		50.6		98.0		127.5							
15 52 45.98	16 6	35.76	18 51	10.12	18 58	19.60	19 3	1.50							

Aug 25.

A.U.

M. Eant

51 Rev. Ceph.			" β Lyrae		" δ Aquilae		" δ Draconis		" τ Draconis	
			32.0		37.1		36.8		33.0	
			36.2		41.2		6.2		45.3	
19	19	40.0	40.3		44.7		15.3		57.3	
			44.4		48.2		24.2		8.7	
			48.8	18	52.0	18	58	33.6	19	4
			199.7		223.6			136.1		165.7
19	30	39.94	18	44	44.72	18	58	15.22	19	3
										57.14

Aug. 25, 1860.

A. H.

M. East

 h^2 Pajittarii

50.9

54.9

18.6

2.3

6.3

173.0

19 13 58.60

Sept. 3.

A. H.

M. Ear

w Aquilae			♂ " Aquilae		
		42.3			54.3
		46.0			57.8
		49.5			1.3
		52.8			4.8
19	57	56.6	19	5	8.4
		245.2			126.6
19	57	49.04	19	5	1.32

Sept. 6.

M. Carr

A.U.

 β Lyrae" δ Aquilae

23.3

28.9

27.5

32.7

31.6

36.2

35.8

39.8

18 30 40.1 18 44 43.4

158.3

181.0

18 30 31.66 18 44 36.20

Oct. 3.

T.H.P.

M. East

2 Scorpii

8 Urs. Min.

a Lyrae

γ Piscium

		45.0	15	59.0		4.6		58.2			
		48.9	17	0.4		9.2		2.0			
		52.7	17	59.3		13.5		5.1			
		56.4	18	56.2		17.9		9.0			
16	22	0.6	18	56.9	18	33	22.6	1	25	12.8	
		203.6		231.8			67.8			87.5	
16	21	52.72	18	17	58.36	18	33	13.56	1	25	5.50

Oct 23.

A.H.

M. Ear

Urs Maj. & Hydrae

		9.0			17.6				
		14.7			21.3				
		19.7			24.8				
		24.7			28.2				
8	50	29.3	9	21	31.9				
		97.4			123.8				
8	50	19.48	9	21	24.76				

1860phae.proj.:.106H

W. East

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Oct. 24, 1860.

Ill. East

A.H.

5 Pegasi

Moon TO

S Agnarii

α Pis. "Aur.

α Pegasi

51.3

24.0

36.1

17.0

9.1

55.0

27.6

39.7

21.2

13.6

58.5

31.2

43.3

28.2

17.1

1.8

34.6

46.8

29.1

20.7

22	55	51.5	22	40	38.2	22	47	50.6	22	50	33.3	22	58	24.3	23
		172.1			155.6			216.5			125.8			84.8	

22	34	58.42	22	40	31.12	22	47	43.30	22	50	28.16	22	58	16.96	23
----	----	-------	----	----	-------	----	----	-------	----	----	-------	----	----	-------	----

Oct. 24

A.U.

M East

of Aquarii

27.3

31.0

34.4

37.8

23 7 41.4

171.9

23 7 34.38

Oct-25. 1860

J.H.S.

M. East

Aguarii		Moon TD		16 Piscium		2 Piscium		Johnson 162		
	41.3		21.0		52.0		22.3	54	10.5	
	45.1		24.9		53.7		25.9	55	0.6	
	48.8		28.2		59.1		29.3		49.4	
	52.1		31.6		2.4		32.6	56	37.0	
23 9	55.5	23 26	36.6	23 32	6.0	23 35	36.2	23 57	28.5	0
	242.8		141.3		175.2		146.3		126.0	
23 9	48.56	28 26	28.26	23 31	59.04	23 35	29.26	23 55	49.20	0

Oct. 26. 1860

A.H.

M. East

1866phae

16 Piscium		2 Piscium		8 Sculptoris		w Piscium		a Andromeda							
	12.6		42.8		35.3		5.4		6.2						
	16.0		46.3		39.4		8.9		10.2						
	19.5		49.8		43.3		12.2		14.1						
	22.8		53.2		47.8		15.6		17.9						
16	13	26.6	16	16	56.8	16	25	51.2	16	36	19.4	16	45	22.1	16
		97.5			248.9			217.0			61.5			70.5	
16	13	19.50	16	16	49.78	16	25	43.40	16	36	12.30	16	45	14.10	16

Oct. 26

A.U.

- All. Ear

 γ Pegasi

Moon 10

59.4

33.3

3.0

36.8

6.6

40.4

10.1

43.9

16 50.

14.0

16

57

47.6

93.1

202.0

16 50

18.62

16

57

40.40

Oct 27. 18 60

A.H.

M. East

γ Cephei		δ Sculptoris		162 Johnson		93 Johnson		12 Ceti	
	18.6		42.5	22	38.0	40	53.1		59.1
	34.7		46.5	23	27.7	43	9.2		2.7
	49.4		50.4	24	16.9	45	14.3		6.1
	4.4		54.3	25	4.2	47	23.9		9.6
16	5	20.4/16	12	58.4/16	25	55.2/16	49	36.2/16	54. 13.1
	127.5		252.1		142.0		137.0		90.6
16	4	49.50/16	12	50.42/16	24	16.40/16	45	18.40/16	54. 6.12

Oct. 27

Ill. East

A.H.						Ill. East								
α Cassiopeae		β Ceti		δ Piscium		Moon TO		ϵ Piscium						
35.0		38.8		30.5		38.3		46.2						
41.3		42.6		34.2		42.1		49.7						
47.6		46.2		37.6		45.6		53.2						
53.5		49.8		41.0		48.9		56.6						
17	3	59.9	17	7	53.7	17	12	44.8	17	23	52.7	17	27	0.2
237.3		231.1		188.1		227.6		185.9						
17	3	47.46	17	7	46.22	17	12	37.62	17	23	45.56	17	26	53.19

Oct. 27. 1860.

A.H.

M. East

Polaris

"
 8' Ceti"
 2 Andromedae

35 9.9

7.1

13.5

37 34.0

10.6

17.6

39 51.2

14.1

21.4

42 3.4

17.6

29.3

17 44 31.3

21.2

16

32

29.4

129.8

70.6

107.2

17 39 49.96

14.12

16

32

21.44

Oct. 29

A. H.

Alt. Ear

x Cygni

32 "Vulpecula

27.6

26.7

32.7

30.6

37.5

34.7

42.2

38.2

20 36 47.3 20 48 —

187.3

20 36 37.46

Oct. 30. 1860.

M. East

J.H.S.

γ Piscium			ν Piscium			β Arietis			α Arietis			67 Ceti		
		54.3			3.7			49.2			11.6			54.9
		58.0			7.3			53.2			15.6			58.6
		1.5			10.6			56.7			19.3			2.1
		51.1			14.2			0.2			23.1			5.6
1	24	8.8	1	34	17.8	1	47	4.1	1	59	26.9	2	10	9.1
		127.7			53.6			163.5			96.5			130.3
1	24	1.54	1	34	10.72	1	46	56.70	1	59	19.30	2	10	2.06

Oct 30

Ill Eat

T. H. H.

5² Ceti

Moon 110

5.7

9.5

13.7

48.6

17.2

52.2

3

24

21.3

67.5

3

24

13.50

Oct 31. 1860

A.U.

All Ear

Andromedae		γ Pegasi	
	3.6		38.8
	7.7		0.4
	11.6		3.9
	13.4		7.4
0	1	19.6	0 6 11.2
	57.9		79.7

0	1	11.58	0 6 3.94
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Nov 1. 1860

J. H. P.				M. East															
α Cor. Bm.				α " Ophiuchi				α " Lyrae				ϵ " Pegasi				ι " Pegasi			
				38.1			20.0				2.9				19.2				36.3
				42.0			23.6				7.6				17.8				40.2
				45.7			27.3				12.0				21.3				44.0
				49.6			30.8				16.2				24.9				47.8
15	28	53.7	17	28	34.5	18	32	20.8	21	37	28.4	21	46	51.8					
		229.1			136.2			59.5			106.6			220.1					
15	28	45.82	17	28	27.24	18	32	11.90	21	37	21.32	21	46	44.02					

Nov. 1. 1860.

T. H. S.

Ull. Ear

Aquarii		12 Ceti		β Ceti		ϵ Piscium		Polaris	
	31.6		50.7		30.3		37.8	4	2.6
	35.2		54.4		34.1		41.5	6	23.7
	38.7		57.9		37.9		45.0	8	42.4
	42.0		1.1		41.4		48.1	11	0.0
21 58	45.7 0	23	4.8 0	36	44.2 0	55	51.9 1	13	25.0
	193.2		168.7		188.9		224.3		93.7
21 58	38.64 0	22	57.78 0	36	37.78 0	55	44.86 1	8	42.74

Nov. 1

J. H. S.

Ill. Ear

Ceti

γ Piscium

ν Piscium

α Bootis

58.5

58.8

6.2

11.3

2.2

0.4

9.8

13.2

5.8

4.0

13.2

18.8

9.2

7.4

16.4

22.4

1 17

12.7

1

14

11.2

1

34

20.1

14

—

88.4

79.8

65.7

1 17

5.68

1

14

3.96

1

34

13.14

Nov. 4. 1860

Ill. East

1860phae. p

A.H.			" "			" "			" "			" "		
Can. Min.			B. Gemini			6. Cancri			15. Argus			Moon 110		
		59.8			4.5.8			55.8			35.2			35.3
		3.3			50.2			0.1			39.2			39.3
		6.9			53.7			4.0			43.1			43.0
		10.3			57.7			7.8			46.6			46.6
7	33	14.1	7	38	1.6	7	56	11.7	8	2	50.6	8	14	50.4
		94.4			209.0			79.4			214.7			214.6
7	33	6.88	7	37	53.80	7	56	3.88	8	2	52.94	8	14	42.92

Nov. 4.

A.U.		M. Ear	
γ Cancii		γ Cancii	
		ϵ Hydrae	
3	37.7	11.9	22.9
3	41.7	15.9	26.4
0	45.2	19.7	30.1
6	48.9	23.1	33.7
4	52.8	27.1	37.1
6	226.3	97.7	150.1
92	8 24 45.26	8 35 19.54	39 30.02

Nov. 6. 1860.

A.N.

M. East

1869phae

δ Aquilae		γ Aquilae		α Aquilae		β Aquilae					
	29.0		38.5		59.8		28.8				
	32.5		42.2		3.2		32.3				
	36.0		45.8		6.6		35.8				
	39.3		49.1		10.1		39.2				
19	18	42.9	19	39	52.7	19	44	13.7	19	48	42.9
	179.7		228.3		93.4		179.0				
19	18	35.94	19	39	45.66	19	44	6.68	19	48	35.80

Nov. 6.

Ill. East

A.H.

A. H.		" "		" "		Moon 110		" "						
ε Leonis		π Leonis		α Leonis		Moon 110		γ' Leonis						
	57.6		52.8		58.8		41.1		18.7					
	1.4		56.5		2.4		44.8		22.5					
	5.2		0.0		6.0		48.3		26.2					
	9.1		3.5		9.4		52.0		29.6					
9	38	13.2	9	53	7.110	1	13.0	10	3	55.610	12	33.5		
		86.5			119.9					89.6		241.8		130.5
9	38	5.30	9	52	59.98	10	1	5.92	10	3	48.36	10	12	26.10

Nov. 6, 1860.

H. Ean

J. H. S.

x Virginis

" γ Bootis

52.7 3.9

56.4 7.4

0.0 11.2

3.4 14.6

13 18 7.2 13 48 18.6

119.7 58.7

13 17 59.94 13 48 11.14

Nov. 7.

J.H.S.

M Ear

J. H. S.		"		"		"		"		"				
α Piscium		α Andromedae		γ Pegasi		α Virginis		γ Bootis						
	13.5		14.4		7.9		58.1		6.0					
	17.4		18.7		11.6		58.7		9.7					
	20.8		22.5		15.1		2.4		13.4					
	24.1		26.3		18.6		5.6		17.0					
23	52	27.8	0	1	30.6	0	6	22.3	13	18	9.2	13	48	20.8
	103.6		112.5					75.5			131.0			66.9
23	52	20.72	0	1	22.50	0	6	15.10	13	18	26.20	13	48	13.38

Nov. 7.

M. Ear

J. H. S.

x Bootis

21.2

25.1

28.9

32.2

36.4

143.8

14 9

14 9

28.76

Nov. 8

J. H. S.

M. Eau

J. H. S.		M. Eau												
α Cor. Bor.		δ Ceti	γ Piscium	γ Bootis	α Bootis									
	49.7	10.6	8.7	8.1	23.5									
	53.6	14.2	12.2	12.0	27.5									
	57.5	17.7	15.9	15.7	30.9									
	1.3	21.1	19.4	19.0	34.3									
15	29	5.5	1	17	24.7	1	24	23.0	13	48	23.0	14	9	38.5
	167.6	88.3	79.2	77.8	154.7									

15 28 57.52 1 17 17.66 1 24 13.84 13 48 13.56 14 9 30.94

Nov. 8.

J. H. S.

W. Earl

3 Mrs Min

—

15.0

28. 3

14 57 42.2

Nov. 9.

A.U.

M. Equ
H.S. β Cephei ϵ Pegasi γ Draconis

41.7

27.9

22.5

52.2

31.4

28.2

2.7

34.8

33.9

12.2

38.3

39.0

21 27

22.9

21 37

42.0

17 53

45.1

131.7

174.4

168.7

21 27

2.34

21 37

34.88

17 53

33.74

Nov. 13.

J. H. S.

Ill. East

Pis. Ans.

α Pegasi

γ Urs. Maj.

α Bootis

ε Bootis

10.4

3.4

11.3

31.4

6.4

14.6

7.0

17.1

35.3

10.6

18.5

10.6

22.4

38.9

14.4

22.5

14.0

27.7

42.5

18.2

20 50

26.7

22

58

17.7

13

42

33.2

14

9

46.3

14

39

22.3

18

92.7

52.7

111.7

194.4

71.9

20 50

18.54

22

58

10.54

13

42

22.34

14

9

38.88

14

39

14.38

18

Nov. 14.

J. H. S.

All. East

J. H. S.		"		"		"	
α Lyrae		α Andromedae		γ Pegasi		ε Piscium	
	24.5		26.7		20.1		—
	29.1		30.8		23.7		3.1
	33.6		34.8		27.3		6.1
	37.8		38.5		30.7		10.0
18	32	42.5 0	1	42.6 0	6	34.5 0	56 13.7
		167.5		173.4		136.3	
18	32	33.5 0 0	1	34.68 0	6	27.26	

J. H. P.

M. East-

2 Syrce

2 Persu

2 Virginis

и Урсул Маг.

α Bootis

—	59.7	8.8	13.0	35.3
—	45.1	12.6	20.5	39.1
33.2	50.4	16.1	26.1	42.7
39.4	55.3	19.4	31.5	46.2
44.2 3	1.0 15 18	23.0 13 42	36.9 14 9	50.1
	191.5	79.9	130.0	213.4

18	32	44.2	3	15	1.0	13	18	23.0	13	42	36.9	14	9	50.1	14
					191.5			79.9			130.0			213.4	

3 14 50.30 13 18 15.98 13 42 26.00 14 9 42.68 14

Nov. 15

M. East

J. H. S.

Σ Bootis

3			10.0
1			14.1
5			18.0
2			21.7
1	14	39	26.0
4			89.8
8	14	39	17.96

