

KG
11365
58

A.58

Meridian Circle
1864 Nov. 10th -
Nov. 23^d
by T. Groom & Co., Stationers, India Building, 92 State St., Boston.

KG 11365.58

11 11 11

7.9238 8.1138
 9.7614 0.0625
 9.5611 0.0270
 9.2663 0.0066

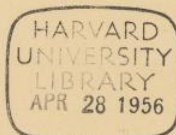
9.3654 9.4423
 7

Nov 10 11-14 15-19 22-23

	π 0.227	~~0.214~~	$+0.232$	$+0.158$
	c 0.277	~~0.277~~	$+0.277$	0.277
	117	118	119	120
45°	$+0.619$	$+0.506$	$+0.624$	$+0.550$
50°	0.552	0.457	0.556	0.494
30	0.453	0.386	0.456	0.412
20	0.378	0.337	0.380	0.353
10	0.321	0.301	0.322	0.309
0	0.277	0.277	0.277	0.277
-10	0.241	0.261	0.240	0.253
20	0.214	0.255	0.212	0.239
30	$+0.187$	$+0.254$	$+0.184$	$+0.228$



KG11365,58



1164 Nov 10th Ill East

mutpage

ρ Capricorni	A hrs	Maj 20	46 Cephei B	a Delphini	a Cygni
			9.8	13.9	39.1
4.7		228	21.5	17.3	43.7
8.5		29.2	32.5	21.1	48.9
11.4		38.1	41.0	23.7	52.6
15.5		46.1	53.3	27.8	58.0
			157.1	104.0	242.3
20 22 8.27	20 23		20 31 31.42	20 24 20.80	20 37 48.46
21 9.17					36 49.84

0.0225

B 8.76 3.56
 C 8.18 0.32
 D 8.30 3.10
 E 8.33 7.17
 8.

1864 Nov 10th Ill East

748

6 hrs Maj SP Arg +1° 4393 Arg -11° 4396 Arg +14 397 Arg +2° 4295

	9.2	31.3	48.1	13.5
54.5-	12.6	34.6-	51.5-	17.0
0.9	16.2	38.2	55.2	20.4
9.6	18.8	40.8	57.9	23.3
17.5-	22.7	44.7	1.6	26.9
	79.5	189.5	214.3	101.3

20 46

20 49

15.90

20 50

37.90

20 50

54.86

20 58

20.26

next page

Arg + 2 4297	61 Cygni	pre 61 Cygni	fall	Arg + 1° 4250	Arg + 2° 4332
449	41.2	428	543	53.5	
482	43.6	469	57.7	568	
51.9	50.2	51.7	1.7	0.3	
54.6	53.4	55.0	40	3.4	
58.4	58.4	59.9	81		
258.0	248.8	256.3	125.8		
	50.51		5.6		
20 58 51.60	21 1 ~~49.76~~	~~51.26~~ 21	9 1.16	21 12.3	
	0 51.72				

1864 Nov 10th Ill East
JHS

Arg + 1° 4465-	1 Donacmish 5P	Arg + 0 43732	Arg + 1° 4489	3 dynam
487	21 17 47.8	219	16.1	19.5
52.1	18 15.2	25.1	19.3	22.9
56.0	34.5	28.8	23.1	26.5
58.7	19 02	31.4	25.8	29.2
24	23.6	35.2	29.6	33.1
217.9	121.3	142.4	113.9	131.2
277.9				
21 15-55.58	21 18 36.26	21 23 28.48	21 24 22.78	21 25 26.24 24 27.15

THS	MM				
Arg + 0° 4750	γ Capricorni	ϵ Pegasi	16 Pegasi	ζ Cephei	
22.9	28.5	25.7	47.2	57.3	
26.3	32.2	29.1	52.8	3.7	
30.0	33.9	32.7	53.0	10.6	
32.5	38.6	35.5	57.7	15.3	
36.5	42.6	39.5	2.3	22.7	
148.2	177.8	16 2.5	21 3.0	109.6	
			27 3.0	49.6	
21 29 29.64	21 33 35.56	21 38 32.50	21 47 54.60	22 7 9.92	
		37 33.66	46 55.76		

1864 Nov 10th S.M. East

AM

δ Aquarii		γ Aquarii		α Aquarii		η Aquarii		ζ Regasi	
{	35.16		338		22.8		180		366
	38.2		37.2		26.2		213		400
	42.3		40.8		29.8		25.7		43.7
	44.8		43.4		32.6		27.7	(Total)	46.6
	48.6		47.3		36.4		31.5		50.4
			202.5		147.8		123.6		
22	10 41.80	22	15 40.50	22	24 29.56	22	29 24.72	22	35 43.34
	9 42.85						25.63		34 46.41

43.37	6.77
43	3.43
40	-0.30
(61)	-2.99
49	-6.91

next page

π Pegasi	δ Aquarii	α Pictoris	Amt.	α hirs Major	α Pegasi
32.7	21.5	2.8		6.5	55.3
36.5	25.0	6.8		14.7	58.7
40.7	29.0	10.9		20.3	2.4
43.7	31.7	13.9		28.2	5.2
46.0	35.7	18.6		35.7	9.2
201.6	142.9	53.0		105.4	130.8
					10.8
22 37.40.32	22 48 28.58	22 51 10.60	22 56 21.08	22 59 2.16	
		50 11.54		58 3.12	

1864 Nov 10th 11th East

AM

 γ Picinn δ^1 Aquarii κ Picinn

548

202 Camell B

39 Cephei H

3.2

45.2

54.0

4

6.6

48.8

57.3

23 28 4.8

10.3

52.9

0.9

5.2

29 5.3

12.9

53.6

3.7

31.2

49.0

16.8

59.7

7.5

54.6

30 53.8

49.8

262.2

123.4

3.4

23 11 9.96
10 10.80

23 16 52.44

23 21 0.68
20 1.55

23 23 7.39

51° 51' 53.1

0.84921

81.34 4.7

1.22284

A 7.52

+47.08

B 7.31

-23.89

D +56.48

1.28

C 7.33

+2.13

E -5.03

0.27

D

20.78

F -49.13

59.87

E

48.07

G +53.64

0.16

• 19 Psc		S Sculptoris		
L Pscum	Arg + 2° 4709	Rc <u>XXIII</u> 192	Arg + 2° 4723	Arg + 1° 4786
539	23.2	45.8	0.9	5.8
57.2	26.5	49.7	4.0	9.0
0.9	30.1	53.8	7.9	12.7
3.6	32.8	56.8	10.4	15.4
7.4	36.7	1.4	14.3	19.2
123.0	149.3	207.5	37.5	62.1
3.0		267.5		
23 34 0.60	23 40 29.86	23 42 53.50	23 44 7.50	23 45 12.42
33 1.40				

1864 Nov 10th Ill East

22 Picinn THS 25-Pie

Arg + 2° 4723	Arg + 1° 4792	Arg + 2° 4731	Arg + 2° 4732	Arg + 2° 4733
36.7	3.7	33.4	57.4	25.4
0.2	6.9	36.7	0.9	28.8
3.7	10.5	40.4	4.4	32.5
6.4	13.1	43.1	7.0	35.2
10.2	18.0	46.4	10.9	39.1
77.2	51.2	200.5	80.6	161.0
17.2			20.6	
23 46 3.44	23 47 10.24	23 49 40.10	23 50 4.12	23 50 32.20

next page

w Perseus	2 Ceti	a Andromeda	Arg + 0°	8	Mayeri 4 Arg + 1° 28
16.3	424	178	26.5	38.0	
19.6	460	215	29.9	41.3	
23.4	499	257	33.5	45.0	
26.0	527	28.7	36.2	47.5	
29.9	56.7	33.1	40.0	51.4	
115.2	247.7	126.8	166.1	223.2	

23 53 23.04 23 57 49.54 0 2 25.36 0 3 33.22 0 10 44.64
 52 23.84 1 26.23

1864 Nov 10th Ill East

5 Mayari

THS

Arg + 0° 28	Arg + 0 37	Arg + 2 38	Arg + 1° 52	Arg + 2° 46
45.3	0.7	41.6	36.7	31.5
48.6	3.7	44.9	39.9	34.9
52.4	7.4	48.6	43.6	38.6
55.0	10.0	51.2	46.2	41.3
58.9	13.9	53.1	50.0	45.1
260.2	35.7	241.4	216.4	191.4
0 11 52.04	0 14 7.14	0 14 48.28	0 17 43.28	0 18 38.28

next page

+

44 Picinn	Arg + 10 57	Arg + 10 60	10 Mayra	Arg + 2 54	12 Ceti	3 Cassiopea
226		55.6	185		2.7	18.0
260		58.8	21.7		6.0	23.6
298		2.4	25.4		9.7	29.5
323		5.1	28.2		12.3	33.9
362		8.9	31.8		16.2	40.5
146.9		130.7	125.6		46.9	148.5
		10.7				
0 1929.38	0 20 2.14	0 21 25.12	0 24 9.38	0 30 29.40		
			23 10.05			

1864 Nov 10th M.E.
JHS

Arg + 0° 94	Arg + 0° 98	Arg + 0° 106	B Ceti	Arg + 2 97
238	466	0.7	42.0	525
269	50.0	4.0	43.6	538
307	535	7.7	49.4	595
335	56.2	10.5	52.2	2.3
37.4	59.9	14.2	56.4	6.1
152.3	266.2	37.1	245.6	176.2
				296.2
0 32 30.46	0 33 53.24	0 36 7.42	0 37 49.12	0 38 59.21
			36 49.73	

δ Perseus	Moon I	μ Andromedae	43 Cephei	π Polaris
345	344	8.7		1 6 52.5
37.9	37.9	13.0	0 57 21.6	9 7.0
41.6	41.7	17.7	52 9.2	11 37.6
44.4	44.4	21.0	52 42.4	13 22.5
48.3	48.4	25.7	53 32.5	16 0.6
206.7	206.8	86.1		120.2

0 42 41.34 0 46 41.36 0 50 17.22 0 52 5.03 1 11 24.04

8532 3.4 1.10867

1 25.57

B 5.02 + 42.42

C 5.34 - 3.86

D 4.53 57.77

E 3.13 1 27.37

1864 Nov 10th Ill East*for Clytia D ⁵⁴⁸ *for Clytia D *for Clytia D

53 May

288	44.4
322	48.0
357	51.5
386	54.3
426	58.3
178.1	256.5

28
28
65
94
13.3

16 Mayuri

2

a Arctis

67	27.9
100	31.5
138	35.3
165	38.5
203	
67.3	

1 25 35.62 1 35 51.30 1 43

1 53 13.46 2 0 35.20
1 59 35.83

1 25 21

1 35 33

1 42 47

1 52 53

0.0354

1 26 13

1 36 16

1 43 44

1 53 39

A 35.13	7.23
B 35.17	3.67
C 17	0.33
D 31	3.19
E	7.38

next page

2

<i>a Draconis</i> SP	67 Ceti	0 Ceti	* <i>Falco</i> Ceti	3 ² Ceti
250	9.1	25.9		33
34.4	12.6	29.3		36.6
40.5	16.3	33.2	40.7	0.4
49.3	18.9	35.8	43.3	3.1
57.2	22.8	39.4	47.3	6.8
206.4	79.7	163.6		120.9
				~~79.7~~
2 141.28	2 11 15.94	2 13 32.72	2 13	2 20 59.98
	10 16.41			20 0.52

1864 Nov 10th Ill East
FHS

ε Ceti

γ Ceti

61.0

61.0

56.2

128

59.6

161

34

198

6.2

224

10.0

26.3

135.4

97.4

15.4

2 34 3.08

2 37 19.48

19.96

End

JHS

* 20	21	+0.22	+59.32	-59.27	+05
✓	37	0.62	59.24	59.29	-05
	21	1	0.53	59.32	59.32 00
	24	0.25	59.34	59.35	20 51 +59.305
	23	33	0.30	59.50	59.52 -02
	52	0.30	59.50	59.55	-05
✓	0	1	0.44	59.52	59.56 +01
	23	0.26	59.59	59.59	00
	37	0.22	59.61	59.61	00
✓	1	59	0.40	59.77	59.72 -05
	2	10	0.25	59.78	59.73 +05
	21	0.31	59.72	59.75	-03
	36	0.29	+59.85	59.77	+08
	23	46 (11)	+59.539		1 4 +59.654
					1 2
					±.027 106

Proc. Rate +0.069

July - 0.097

+0.083

0.080 may need.
Difference not of any
account

JHS 20th 29th 59.28 IF 1 NA
1 49 59.738 2F 3 NA.
No change rate

21	37	+0.32	+59.16	-59.24	-08
	47	0.42	59.26	59.25	+01
22	9	0.25	59.20	59.28	-08
	28	0.28	59.32	59.30	+07
	50	0.19	59.25	59.33	-08
	58	0.34	59.38	59.34	+04
23	10	0.29	59.45	59.36	+09
	20	+0.28	+59.41	59.37	+04

22 32 (8)

+59.310

±.055 16

JHS 22 32 inter

+59.4145

not

J-m

+0.135

4,3

1864 Nov 11th M. East
548

548

61 Cygnus pra	61 Cygni foll	3 Cygni	1 Draconis H SP	B Aquarii	
43.4	45.1	5.2	21 17 520	218	
47.9	49.3	9.0	18 16.5	25.3	
52.5	54.2	13.3		26.9	
56.0	57.4	16.1	19 1.9	31.5	
0.7	2.2	20.6	25.2	35.3	
200.5	208.2	64.2		142.8	
260.5	268.2				
21 1 52.87	~~53.64~~	21 8 12.84	21 18 37.86	21 25 28.56	
0 51.70		7 11.72		24 27.14	

81° 54' 42" 0.85171

A	37.84	47.36
B	.87	24.03
D	.40	2.14
E	38.36	20.90
		48.35

AM							
e Pegasi		16 Pegasi		a Aquarii		L Pegasi	
						3 Cephei	
28.0		495-		460		38.1	
31.3		531		492		41.7	
35.1		573		529		45.8	
37.8		02		535		48.7	
41.7		4.3		57.5		52.9	
173.9		164.4		263.4		227.2	
		~~44.4~~					
21	3834.78	21	4656.88	21	59 52.68	22	145.44
37	33.64		55.74	58	51.33	22	7 12.30

1864 Nov 11th Ill East

AM

θ Aquarii	γ Aquarii	σ Aquarii	193 Camelopardalis	3 Regasi
37.6	36.0	25.1	16.9	38.9
40.8	39.5	28.3	41.2	42.3
44.5	43.1	32.2	58.8	46.2
47.3	45.7	34.8	22.4	46.8
51.2	49.4	38.9	43.6	52.8
221.4	213.7	159.3	182.9	229.0
			302.9	
22 10 44.28	22 15 42.74	22 24 31.86	22 31 60.58	22 35 45.60
9 42.84				44.39

α Pegasi	34 Cephei H	α Pictis Aust	α Cassiopeia Major	α Pegasi
34.7	9.3	5.2	8.0	57.4
38.8	33.0	9.0	16.1	59
42.9	2.7	13.3	22.0	48
46.0	22.2	16.2	29.6	75
50.5	52.0	20.9	36.4	(transary 11.2)
212.9	121.2	64.6	112.6	
	1.2			
22 3742.58	22 49 0.24	22 51 12.92	22 56 22.52	22 57 4.40
		50 11.53		58 3.10

4.28	6.88
4.39	3.49
4.49	1.81
4.46	3.04
(4.17)	7.03

1864 Nov 11th M^c

AM

Picinn	F. Aquarii	K. Picinn	202 Camd B sp	39 Cephia H
5.7	477	56.9		23 27 12.8
9.0	57.2	57.7	480	28 8.5
12.6	55.2	35-	5.8	29 (11.8)
15.4	58.0	60	320	52.7
19.1	2.0	9.8	563	30 57.7
61.8	214.1	135.4		
	274.1	15.4		
28 11 12.36	23 16 54.62	23 21 3.08	23 23 8.57	
10 10.79		20 1.54		

Lu Nov. 10th

Lu Nov 10

	~~11.89~~	
	~~11.67~~	
	~~11.22~~	
	~~8.10~~	
A	9.22	4.20
B	8.11	4.98
C	7.23	(4.77)
D	8.78	5.77
		<u>4.06</u>

next page

 δ Sculptoris

AM

THS

L	Piscini	Pia	XXIII 192	y	hrs	Mag	w	Piscini	Polaris
	56.1		480			(31.9)		185	
	59.4		579			38.0		22.0	
	33		581			42.6		25.7	1 11 50.0
	5.9		589			49.1		26.2	13 346
	96		3.4			54.9		32.0	16 3.3
	134.3		218.3					126.4	
	14.3		278.3						
23	342.86	22	4255.66	23	47		23	5325.28	1 11 32.98
	33 1.39							52 23.83	

88° 35' 33" 2 8.39027

C	37.71	12.25
D	34.86	1 59.34
E	26.53	4 36.97
	32.98	

1864 Nov 11th MEast

749

1864ph

214 Canal Bsp			η Piscium	ν Pscii	γ Piscium	τ Ceti	*
1	19	34.2	120	370	210	43.9	
	20	21.8	16.5-	421	242	47.4	
		53.1	193	477	282	57.3	
	21	41.8	219	515-	306	54.0	
	22	23.3	260	571	344	58.0	
		174.2	94.7	235.4	138.2	254.6	
1	20	58.84	1 25 18.94	1 30 47.08	1 35 27.64	1 38 50.92	1
			24 17.26		34 25.88		

next page

X		X							
*Puc	1 Ceti	3 Ceti		Thron I		B Arctis		y Andromedae	
	41.7		53.7		6.8		7.3		32.2
	45.1		57.1		10.4		10.8		36.7
	49.2		0.9		14.3		14.9		41.7
	57.6		3.4		17.1		17.7		45.3
	53.7		7.1		21.1		21.6		50.2
	243.3		122.2		69.7		72.3		206.1
			2.2						
1 43	48.66	1 44	4.44	1 45	13.94	1 48	14.46	1 56	41.22
						47	12.88		

1864 Nov 11th 1864

5A1

u1 *

<i>a</i> <i>Arctis</i>	<i>a</i> <i>Draconis</i>	<i>3' Cete</i>	<i>P. II 28</i>	<i>67 Cete</i>
302		47.2	53.1	11.6
337	360	50.6	57.1	14.9
379	420	54.4	1.5	18.7
407	57.5	57.1	4.4	21.3
455	59.1	0.9	89	25.1
188.3		210.2	125.0	91.6
		270.2	5.0	
2 0 37.66	2 1	2 6 54.04	2 8 1.0	2 11 18.32
1 59 35.84				10 16.42

P. II 52

Aug +10 410 0 Ceti

57.2

28.3

0.5

31.8

4.4

35.5

7.1

38.3

10.7

41.7

79.9

175.6

19.9

2 12 3.98

2 13 35.12

2 19 4.48

2 22 2.20

21 0.57

Cassiopeian

47.5

56.0

5.2

12.1

21.6

142.4

22.4

3 2 Ceti

55.5

58.8

25.5

5.2

9.0

131.0

11.0

Polaris SP

13 7 30.7

10 3.2

11 50.8

14 22.6

16 37.6

144.9

13 12 4.98

1864 Nov 11th Ill Coast

THS

Nov Maj

2.5-
7.8
13.6
175-
236
65.0

13 43 13.00

End

THS

21	1	+0.44	1	1.61	1.58	+03
21 ^h 11 ^m	-1	1.61	7	0.38	1.50	1.59 -06
	24	0.27		1.69	1.62	+07 ^m 1.610
	~~27~~					
	1	24	0.32	2.00	2.00	00
		34	0.29	2.05	2.02	+03
		47	0.34	1.92	2.04	-12
	2	0	0.35	2.17	2.06	+11
2 ^h 10 ^m	-1	2.09	✓ 10	2.17	2.07	+10
			21	0.30	1.93	2.09 ^m 1.53
			0	49	1	2.040
					1	1.897 ±0.08 105

2.308
2.347
2.328

Prior Rate 0.097
for 0.092
0.095

Am

21	37	0.30	1	1.44	1.57	-13
	47	0.36		1.50	1.58	-08
22	0	0.28		1.63	1.61	+02
	10	0.26		1.70	1.64	+06
	35	0.30		1.71	1.66	+05
	19	0.25		1.64	1.68	-04
	58	0.31		1.61	1.70	-09
23	10	0.28		1.85	1.72	+13
	20	0.28		1.82	1.73	+09
	33	0.29		1.76	1.76	00
	52	0.29		1.74	1.78	-04 ±0.06 1
	22	43		1	1.673	
THS					1.752	
S-M.					+0.079	

1864 Nov 14th Ill East

next page

FAS

Faint

α Aquarii	Arg +10	4583	Arg +10	4595	Arg +10	4599	γ Aquarii
52.7		39.3		44.1		1.9	42.6
55.9		42.7		47.1		4.6	46.0
59.6		46.3		50.8		8.3	49.7
2.4		49.1		53.6		11.1	52.2
6.0		52.7		57.3		14.6	56.2
176.6		230.1		252.9		40.5	246.7
296.6							
21 59 59.32	22 0 46.02		22 9 50.58		22 11 8.10		22 15 49.34
58 51.29							

+ 0.043 for 1811

-007 .31
 +011 .48
 +017 .08
 +005 .01
 -002 .01
 -001 .00
 -001 .01
 .003 .02
 .002 .03
 .007 .07
 .014 .10
 .028 .24

.076 1.06

.072

+0.13 - 0.072 $\frac{(t-1811)}{100}$

1864 Nov 14th Ill East

next page

545

Limit

α Aquarii	Arg +10	4583	Arg +10	4595	Arg +10	4599	γ Aquarii
52.7		39.3		44.1		1.9	426
53.9		42.7		47.1		4.6	460
59.6		46.3		50.6		8.3	49.7
2.4		49.1		53.6		11.1	522
6.0		52.7		57.3		14.6	562
176.6		230.1		252.9		40.5	246.7
296.6							
21 59 59.32	22 0 46.02		22 9 50.58		22 11 8.10		22 15 49.34
58 51.29							

$$\begin{array}{r} \text{---} \end{array}$$

$$\begin{array}{r} 59.6 \\ 19.0 \\ 0.2 \\ \hline 118.8 \end{array}$$

17.76

$$\begin{array}{r} 91.7 \\ 91.1 \\ 96.3 \\ \hline 179.1 \end{array}$$

70

$$\begin{array}{r} 71.1 \\ 89.7 \\ 92.0 \end{array}$$

$$\begin{array}{r} 17.5 \\ 21.48 \\ 134.2 \\ 152.62 \\ 167.7 \\ 186.57 \\ 203.48 \end{array}$$

1864 Nov 14th Ellm

Laint		Laint		o Aquarii		Arg + 1° 4623		Arg + 1° 4626	
Arg + 1°	4606	Arg + 1°	4608						
	297		5.0		31.6		31.7		36.1
	332		8.3		33.0		33.5		39.5
	368		11.9		38.8		38.8		27
	395		14.5		41.6		41.7		57
	432		18.5		45.3		45.3		95
	182.4		58.2		192.3		193.0		133.5
									13.5
22	19 36.48	22	20 17.64	22	24 38.46	22	26 38.60	22	28 27.0

η Aquarii	193 Camell B SP	3 Pegasi	Arg + 0° 4912	Arg 0° 4921
270	22.2	45.6	6.4	32.3
302	47.5	49.1	9.8	35.6
339	43	52.6	13.1	39.4
36.6	28.4	55.6	15.9	42.1
40.7	49.6	59.3	19.5	45.7
168.4	152.0	262.2	64.7	195.1
	32.0	52.44		
22 2933.68	22 316.40	22 35-52.44	22 37 12.94	22 37 39.02
28 2557		34 44.35		

1864 Nov 14th M East
7H8

13	Pegasi 21	Arg+00	4926	δ Aquarii	a. Puc Ant	Arg+20	4374
	586		14.3		30.7		11.7
	26		17.7		34.0		15.8
	57		21.4		37.8		19.9
	8.7		24.3		40.6		22.9
	12.5		27.8		44.8		27.4
	88.1		105.5		187.9		97.7
	28.1						174.5
							294.5
22	41	5.62	22 42 21.50	22 48 37.58	22 51 19.54	22 54 58.90	
					50 11.68		

	Arg + 2° 4597	Arg + 1° 4675	a Pegasi	Arg + 2° 4609	Arg + 1° 4684
74					
2	533	543	4.2	11.6	25.8
3-	564	574	7.8	14.9	29.1
2	0.2	1.0	114	185-	33.0
9	2.7	3.7	140	21.1	35.7
7	6.6-	7.5-	180	25.0	39.4
5-	119.1	123.9	55.4	91.1	163.0
5-	0.9	3.9			
90	22 53 0.18	22 58 0.78	22 59 11.08 58 3.06	23 1 18.22	23 2 32.60

1864 Nov 14th Ill East

7445

Arg + 1° 4686	Arg + 1°	4687	Arg + 2	4654	L' Aquarii	Arg + 2° 4663
48.1		30.6		534	542	256
51.6		34.0		566	57.7	28.9
53.7		37.6		51	1.7	323-
57.7		40.3		29	45-	354
1.6		44.3		65-	8.7	390
214.1		186.8		119.5	126.8	161.4
274.1				0.5	6.8	
23 2 54.82	23 3 37.36	23 15-0.10	23 17 1.36			32.28

	Arg +20 4664	202 Camel RSP	39 Cephei	1 Piscium	Arg +20 4709
3					
6	439	23 22 283	23 25 194	2.8	31.9
9	472	54.5	26 14.2	6.0	354
3-	570	23 14.8	27 14.5	9.6	389
4	53.8	39.5	28 0.3	12.3	418
0	57.2	24 3.4	39 4.2	16.2	453
4	253.1	140.5	52.6	46.9	193.5
8	23 18 50.62	23 23 16.10	23 27 10.52	23 34 9.38 33 1.36	23 40 38.70

1864 Nov 14 All East

749

S. Sculphons

P	XXIII	192	Arg + 2	4723	Arg + 20	4724	Arg + 20	4725	Arg + 10	4792	Arg			
		54.7		9.8		4.4		5.5		12.4				
		58.4		12.9		7.8		9.0		15.8				
		2.5		16.4		11.4		12.7		19.4				
		5.7		19.5		14.6		15.2		22.3				
		9.9		23.1		18.0		18.9		26.0				
		131.2		81.7		56.2		61.3		95.9				
		11.2												
23	43	2.24	23	44	16.34	23	45	11.24	23	46	12.26	23	47	19.18

next page

	Arg + 2°	4731	Arg + 2°	4734	Arg + 2°	4739	New Pinn	2 Cete
		422		53.5		313	313	573
		45.3		56.8		346		557
		49.0		0.5		382	32.1	58.7
		57.8		3.3		409	34.7	14
		53.6		7.0		448	38.6	5.5
		243.9		121.1		189.8		172.0
				1.1				292.0
23	4946.75		23	51 0.22	23	52 37.96	23 53 31.77 52 23.80	23 57 58.40

C 31.80 0.30
 D .74 2.96
 E .76 11.84

1864 Nov 14th Ill East

FHS

α Andromedae	γ Pegasi	α Phoenicis	12 Ceti	13 Ceti
26.8	19.6	36.7	11.6	57.0
30.4	23.0	41.1	13.0	54.6
34.5	26.7	46.0	18.5	58.4
37.7	29.5	49.8	21.1	1.2
41.8	33.6	53.1	25.0	5.2
171.2	132.4	228.7	91.2	170.4
				290.4
0 2 34.24	0 ^h 7 ^m 26.48	0 20 ^m 45.74	0 24 18.24	0 37 48.08
1 26.19	6 18.40		23 10.02	36 49.70

64
72
112
70
82

	Arg +10	131	Arg +0°	118	δ Piscium	Polaris	214 Chaul B sp
10		12.5-		34.5-	43.5-	1 7 6.9	
6		15.8		38.0	46.9	9 21.9	1 20 26.8
-4		19.5-		1.5-	50.5-	11 49.2	21 2.5-
2		22.2		4.3	53.3	13 40.2	47.2
-2		25.8		8.2	57.1	16 13.6	22 30.4
4		95.8		126.5	251.3	131.8	
4				6.5			
08	0 39 19.16		0 41 1.30		0 42 50.26	1 11 38.36	1 21 5.25
70							

85° 27' 26" N 1.10127

A 6.27 -1 24.13

B 4.54 - 42.69

C 6.20 + 3.80

D 2.93 + 37.13

1864 Nov 14th

Ill. East.

ρ Pressure	ρ Pressure	T Cts	* Prc ρ Cts	ρ Cts
18.6	27.6	50.4	484	39.9
22.0	30.9	53.9	577	3.5
25.6	34.4	57.6	555	7.2
28.4	37.3	0.3	58.3	9.9
33.4	41.1	4.4	2.1	13.9
128.0	171.3	166.6	216.0	94.4
		286.6	276.0	34.4
1 st 25-25.60	1 35-34.26	1 38-57.32	1 4.3 55.20	1 44 6.88
24 17.25	34 25.87			

End

β Anus	α Piscum fall	α Anus	67 Cete	Polaris sp
138	68	386	180	13 ² 7 325-
17.5-	104	40.6	21.5-	10 3.3
21.2	138	444	25.0	11 58.6
24.4	166	47.1	27.9	14 25.2
28.2	203	51.2	31.7	16 43.3
105.11	67.9	220.1	124.1	160.9
1 4821.02	1 58.13.58	2 0 44.02	2 11 24.82	13 12 8.18
67 12.88		1 59 35.84	10 16.42	

21	59	+0.28	1	8.31	-8.28	+03	✓ ₅₅
22	28	0.28		8.39	8.32	+07	
34		0.30		8.39	8.33	+06	
50		0.25		8.31	8.35	-04	✓
58		0.32		8.34	8.36	-02	✓
23	33	0.29		8.31	8.41	-10	
52		0.29		8.26	8.44	-18	
0	1	0.38		8.43	8.45	-02	✓
6		0.32		8.40	8.46	-06	✓
23		0.27		8.49	8.48	+01	
37		0.26		8.64	8.50	+14	
1	24	0.32		8.62	8.52	+10	
34		0.29		8.68	8.58	+10	
47		0.34		8.48	8.60	-12	
59		0.35		8.53	8.62	-09	✓
2	10	0.27		8.67	8.63	+04	
0	3		+1	8.456		+062	10h

Pro R 0.091
 Joly 0.080
 0.084

- 1 8.387 23^h 38^m
 + 57.613

1864 Nov 15th M. East
TAS

Polaris 5P
 13 7 37.6
 10 9.0
 12 2.8
 14 30.9
 16 43.9
 124.2

13 12 1284

1864 Nov 16th
TAS

a. Lyrae
 23.8
 28.0
 32.4
 33.9
 40.8
 160.9

18 33 32.18
 32 21.06

3. Argulus
 16.4
 19.8
 23.6
 26.5
 30.3
 116.6

19 0 23.32
 18 59 11.60

5. Argulus
 43.8
 49.2
 52.8
 53.6
 59.4
 262.8

19 19 52.57
 19 18 40.89

next page

1864 Nov 16th McEast
T.H.S.

Epilum

<i>β Cygni</i>	<i>γ Aquilar</i>	<i>1 Draconis</i> 4 ^{sp}	<i>119 Cephei</i> 13	<i>γ 1564</i> 510
20.0	54.8	1.7	21 24 25.5	31.8
23.7	58.3	28.3	53.7	42.5
27.8	1.8	47.8	25 29.3	50.8
30.8	4.6	12.9	52.4	0.9
35.2	85-	37.0	26 27.7	10.7
137.5	128.0	127.7	190.6	136.7
	8.0			256.7
19 2627.50	19 41 1.60	21 18 49.54	21 25 26.12	21 31 57.34
	39 50.04			

γ Capricorni	Arg + 0° 4765-	Arg + 0° 4770	Arg + 0 4788	Arg + 0 4790
41.4	19.3	22.4	46.2	
44.8	22.5-	25.8	51.2	(27.7)
48.7	26.2	29.3	54.9	31.3
57.5-	28.8	32.0	57.6	34.0
53.5-	32.7	36.0	1.6	37.8
241.9	129.5-	145.5	213.5	
			273.5	
21 33 46.38	21 35-25.90	21 36 29.10	21 45-54.70	21 46

1864 Mar 16th
THS

Aquarii		Arg +10 4583		Pegasi		12 Ceti		3 Cassiopeiae	
564		432		485-		(-10) 15.4		(-10) 30.5	
57.8		465-		523		18.8		36.2	
3.6		50.0		563		22.4		42.2	
6.1		52.8		592		(24.8)		46.8	
8.9		565-		3.5-		28.9		53.2	
134.8		249.0		219.8				208.9	
141.8				279.8					
22 0 2.96	22 0 49.80	22 15-5.96	0 24 ^m 22.09	0 23 10.01	0 24 ^m 22.09	0 23 10.01	0 24 ^m 22.09	0 23 10.01	0 24 ^m 22.09
21 58 57.26									

22.08 6.68
 22.19 3.39
 22.10 11.30
 21.85 2.95
22.07 6.83

next page

<i>a Cassiopeae</i>	<i>B Cete</i>	<i>δ Piscium</i>	<i>u Andromedae</i>	<i>ε Piscium</i>
540	154.8	474	21.3	2.7
598	58.3	507	25.5	6.3
062	02.2	544	30.2	10.0
11.1	03.1	572	33.5	12.6
18.3	08.0	10.9	38.4	16.5
149.4	129.4	210.6	148.9	48.1
29.4	9.4	270.6		
0 34 5.88	0 38 1.88	0 42 54.12	0 50 29.78	0 57 9.62
	36 49.69			55 57.64

1864 Nov 16th All East

AM

748

Andromedae

Polaris

+ Cete

214 Camel Bn. of Picinn

16.4

1

6 58.9

23.3

1

19 45.6

22.3

20.6

9

18.1

26.7

20 35.3

25.9

24.7

11

44.0

30.3

21 9.3

29.6

28.2

13

35.4

33.1

53.7

32.5

32.8

16

10.7

36.7

22 37.0

36.4

12 2.7

167.1

150.1

180.9

146.7

1^h3^m 24.54

1

11

33.42

1

18 30.02

1

21 12.18

1

25-29.34

17 17.77

24 17.25

next page

	δ Perseu	ν Pegasus	α Pegasus ^{AM}	α Andromedae	δ Ceti
23	475	31.5	10.7	40.4	22.1
39	523	34.8	14.2	44.1	25.5
46	577	38.3	17.8	48.5	28.9
5-	1.8	41.1	20.4	51.4	31.6
4	7.5	45.0	24.1	55.2	35.6
7	166.8	190.7	87.2	239.6	143.7
	286.8				
34	1 305-7.36	1 35-38.14	1 55-17.44	2 47.92	2 11 28.74
25		34 28.82		59 35.84	10 16.42

1864 Nov 16th M East

AM

1 Cassiopeae	3 ² Ceti	36 Cassiope H	Gr 527	2 Ceti
576	6.0	10.6	11.5	89
6.0	9.3	21.3	32.6	123
15.5	13.0	33.0	54.4	16.1
22.3	15.7	42.4	11.5	189
32.3	19.5	55.2	36.4	228
133.7	63.5	162.5	146.0	79.0
73.7				
2 19 14.74	2 22 12.70 0.58	2 26 32.50	2 29 53.20	2 34 15.60

next page

γ Eridani	ϵ Arietis	α Ceti	β Persei	δ Arietis
570	365	205	290	17
0.3	40.0	23.9	33.3	5.1
42	43.9	27.5	38.2	9.1
6.6	46.9	30.5	41.9	11.8
106	57.1	34.0	46.6	15.7
78.7	218.4	136.4	189.0	43.6
16.7				
2 50 3.94	2 52 43.68	2 56 27.28 55 15.04	3 0 37.80	3 58.72 3 56.60

1864 Nov 16th All East

AM

12 Eridani	3 Eridani	a Pucci	o Tauri	57 Hercules
(26.2)	23.9	46.1	40.1	
30.5	27.2	51.1	434	3 21 32.9
34.3	30.9	56.9	(47.1)	22 37.6
37.6	33.6	1.0	498	24 10.5
42.2	37.4	7.0	(53.6)	25 34.6
	153.0	162.1		
		282.1		
3 7	3 1030.60	3 1556.42	3 18 <u>46.80</u>	3 22 45.65

A 15.13 249.97
 B 64.51 129.99
 C 63.26 7.66
 D 47.70 114.80
 45.65

End

E Eridani

415

449

484

511

530

240.9

48.18

3 274618 118.2

JWS

JHP 204 11.853

18 32	0.54	1 74.71	1 11.85	-14
59	0.34	12.06	11.91	+15
19 18	0.29	11.96	11.94	+02
40	0.32	11.88	11.97	-09
19 56 11.916	21 59 0.27	11.97	12.14	-17
~~1 17 11.916~~	~~0.24~~	~~1 11.916~~	~~7 11.916~~	~~11.916~~
1 17 11.916	0.24	12.49	12.39	+10
1 25 12.500	21 58 0.30	12.49	12.46	+17
	Am	1 12.151	(7) 12.151	+0.080
				+0.072
				+0.076
21 50 -1 12.151	0 23 +0.16	1 12.35	-12.35	+10
	0 36 0.22	12.41	12.37	+04
	0 56 0.31	12.29	12.39	-10
	~~1 17~~			1 12.383 0.38 3
	~~1 24~~			1 12.506 2.30 5
	~~1 34 0.30~~			
	2 0 0.40	12.50	12.48	+02
	10 0.25	12.57	12.49	+08
	21 0.31	12.43	12.50	-07
	55 0.29	12.53	12.54	-01
	3 4 0.38	12.50	12.56	-06
	~~1 40 0.30~~			
	1 48 0.30	1 12.460		+0.054

Raw 0.076

L-m

+0.035

0.065

+0.050

Wt about 3.

1864 Nov 19 East

THS

a Lyrae

3 Aquilae

S Aquilae

a Aquilae

B Aquilae

29.1

21.6

57.0

21.3

57.5

33.1

25.0

54.3

24.7

54.0

37.9

28.6

58.0

28.4

57.6

41.2

31.3

0.6

31.0

0.3

46.4

35.2

4.4

35.0

4.2

187.7

141.7

168.3

140.4

166.6

288.3

286.6

18 33 37.54

19 028.34

19 19 57.66

19 45-28.08

19 49 57.32

32 20.97

18 59 11.57

18 40.86

44 11.32

48 40.47

next page

γ Sagittae	Arg +10	4393	Arg +10	4397	Arg +20	4294	Arg +20	4295
54.4		26.9		6.2		1.3		313
57.9		30.3		9.4		4.7		348
1.8		33.9		13.1		8.4		383
4.5		36.6		15.7		11.0		409
8.7		40.4		19.5		15.0		448
127.3		168.1		63.9		40.4		190.1
7.3								
19 54 1.46	20	49 33.62	20	51 12.78	20	58 8.08	20	58 38.02

1864 Nov 19th Ill East

TAS.

by +20	4297	61 Cygni pri	61 Cygni sec	1 Deneb H SP	8 Aquarii
2.7		58.9	1.5-	6.5-	39.4
60		3.3	4.9	34.5-	42.9
9.5-		7.9	9.5-	38.7	46.6
123		11.3	12.7	18.9.	49.4
162		16.1	17.6	43.4	53.5
46.7		97.5.	45.2	157.0	201.8
		37.5			
20 59 9.34	21	2 8.27	21 2 9.04	21 19 55.40	22 48 46.36
		0 51.54			

34 Cypher H	a Pencil Ant	Arg + 2° 4584	Arg + 2° 4587	Arg + 1° 4673-
	20.8	1.0	2.0	2.9
	24.7	4.4	5.3	6.3
	26.9	8.0	8.9	10.0
36.6	32.0	10.5	11.7	12.7
6.4	36.5	14.5	15.5	16.5
	142.9	38.4	43.4	48.4

22 49 14.42 22 51 28.58 22 53-7.68 22 56 8.68 22 58 9.68
50 11.40

52 26 58.3 7.11390

1.34543

1.21608

D 14.45 22.15
C 14.39 52.04

1864 Nov 19th Ill East

THS

AM

Pegasi

K Picuum

202 Canul B 510

39 Cephei H

v Picuum

13.1

11.9

5.5

23

27

24.2

11.4

16.6

15.2

5.5

28

20.1

14.9

20.2

18.8

24.0

29

19.5

18.4

22.9

21.4

49.9

30

5.9

21.2

27.0

25.3

13.4

31

8.3

25.1

99.8

92.6

76.0

91.0

22 59 19.96
58 3.0023 21 18.52
19 1.45

23 23 26.12

23 29 15.60

23 34 18.20
33 1.30

9.15082

A 26.32 - 67.08

B 26.20 - 23.70

C 29.87 + 1.87

D 26.08 + 20.58

next page

<u>P_{XXIII}</u> 192	y	hrs Majoris sp	u	Piscium	2	Cete	a	Andromedar
3.3		48.1		34.1		0.1		35.4
7.1		54.6		37.3		3.6		39.3
11.2		59.4		41.0		7.3		43.3
14.3		5.2		43.7		10.2		46.4
18.7		11.1		47.7		14.4		50.8
54.6		178.4		203.8		35.6		215.2
		298.4						
23 43 10.92	23	47 59.68	23.	53 40.76	23	587.12	oh	2 ^m 43.04
				52 23.75				1 26.13

1864 Nov 19th Ill East
 Mu FNS

γ Pyxis	α Phoenix	12 Cete	β Aries	50 Cassiopea
28.3	45.3	20.3	22.9	57.9
31.8	49.9	23.7	26.5	8.3
35.7	54.8	27.4	30.3	20.0
38.2	58.3	30.0	33.2	28.7
42.2	3.6	33.9	37.2	41.2
175.9	211.9	135.3	150.1	156.1
				76.1
oh γ 35.18	0 20 54.38	0 24 27.06	1 48 30.02	1 53 19.22
6 18.36		23 9.98	47 12.87	

<i>a Perseus</i>	<i>a Arietes</i>	<i>20 hrs Mini BSP</i>	<i>U Cassiopeia</i>	<i>4² Cete</i>
13.8	45.6	2 2 58.2	2.7	11.2
19.1	49.3	3 59.7	11.3	14.5
22.8	53.1	4 43.0	20.3	18.0
25.4	56.2	5 39.1	27.2	20.4
29.1	52	6 33.1	36.8	24.9
112.2	204.4	233.1	98.3	89.15
	264.4			
1 56 22.44	2 55.2.88	2 4 46.62	2 19.19.66	2 22 17.99
	1 59 35.84			21 0.59

1864 Nov 19^m Ill Coast

AM

549

36 Cassiopeia

Gr 527

ε Ceti

γ Ceti

41 Arcturus

13.6

13.7

13.9

30.4

14.3

26.6

36.5

17.3

34.0

16.0

38.3

59.8

21.0

37.5

22.0

47.0

16.7

23.9

40.3

25.0

59.6

41.4

27.8

44.1

29.2

187.1

170.3

103.9

186.3

108.5

2 26 37.42

2 29 58.06

2 34 20.78

2 37 37.26
36 20.00

2 43 21.70

next page

$\Delta g + 10$	$\Delta g + 10$	Pi. XIV	217sr	η Eridani	ϵ Aurigae
497	503				
349	328		3.0	2.1	41.7
382	372		10.7	53-	45.4
419	408		15.8	9.1	49.2
446	435		23.0	11.8	52.0
484	473		29.7	15.8	56.2
208.0	202.6		82.2	44.3	244.5
2 4441.60	2 45-40.52	2 49 16.44	2 518.86	2 52.48.90	

1864 Nov 19th Ill East

T48

a Ceti

Arg +10

5-34

B Persei

S Arctis

12 Endami

25.7

51.6

34.5

6.8

31.6

29.1

55.0

38.7

10.4

35.4

32.8

58.6

43.4

14.2

39.5

35.3

1.3

47.1

16.9

42.6

39.3

5.7

52.1

21.1

47.1

162.2

171.6

215.8

69.4

196.2

291.6

2 56 32.44

2 58 56.32

3 0 43.16

3 5 13.88

3 739.24

55.15.06

3 56.62

Arg + 2° 502 * puc 3 Eridani				Arg + 2° 578 a Perseu			
	48.0	10.4	3	28.8	29.3	51.4	
	51.2	13.7	3	32.2	32.6	56.6	
	54.8	17.3		35.9	36.2	2.2	
	57.6	20.0		38.5	38.9	6.2	
	1.4	23.9		42.6	42.7	12.3	
	213.0	85.3		178.0	179.7	128.7	
	273.0					8.7	
3	8 54.60	3 10 17.06	3 10 35.60	3 13 35.94	3 16 1.74		

1864 Nov 19th Ill East
743

42 + 2° 534 0 Tauri

31.4

45.3

34.6

48.7

38.2

52.3

40.9

53.0

44.7

58.9

189.8

260.2

323 Cephei B

3

22 306

23 219

24 153

56.5

25 54.9

79.4

3

17 37.96

3

18 52.04

3

24 1188

End

JMS

18 32	+0.54	1	17.11	-17.02	-01	✓
59	0.34		17.11	17.05	+06	
19 19	0.29		17.09	17.08	+01	
44	0.31		17.08	17.17	-03	✓
49	0.30		17.15	17.12	+03	✓
21 1	0.54		17.27	17.21	+06	
22 50	0.18		17.36	17.36	00	✓
58	0.35		17.31	17.37	-06	✓
2 55	0.29		17.67	17.68	-01	
3 4	0.38		17.64	17.69	-05	

~~20 47~~ ¹⁴ 20⁴⁷ + 42.818 (5)

 20 24 1 17.172 (8)
 3 0 42.345 (2)
 3 0 17.655 (2)

 20 43 1 17.269
 P. R. K. +0.071
 J. L. G. +0.084
 0.080

 $\frac{7}{11} = \frac{4}{11} \cdot 8$
~~0.201~~
~~0.206~~
 $\frac{0.217}{0.111}$

JMS

23 30	1 17.280	23 20	0.28	1	17.35	-1	17.27	+08
0 30	320	33	0.30		17.20		17.28	-08
30	360	52	0.30		17.31		17.31	00
1 0	400	0 1	0.44		17.35	✓	17.32	+03
30	440	0 6	0.35		17.17	✓	17.33	-16
2 0	480	0 23	0.35		17.34	*	17.35	-01
30	520	1 47	0.38		17.53		17.46	+07
		2 0	0.40		17.44	✓	17.48	-04
		2 21	0.31		17.62		17.51	+11
		0 36		-1	17.368			±058 109

 $\frac{7}{11} = \frac{4}{11} \cdot 8$
~~0.201~~
~~0.206~~
 $\frac{0.217}{0.111}$
 J-m + .112 3.1

 0 42 42.600 3F
 Rate - 0.076

1864 Nov 21 Ill East

JHS

a Bootis

44.6
48.1
52.0
54.8
58.8
258.3

14 8 57.66

1864 Nov 22 East

JHS

y Aquilae

9.5
13.1
15.8
19.7

19 39 12.83
49.97

a Aquilae

27.4
30.7
34.4
37.1
41.0
170.6

19 43 34.12
44 11.29

δ Aquilae

45.6
49.2
52.9
55.6
59.7
263.0

22 46 52.60

6.77

12.91

3.41

12.83

0.27

12.86

2.96

12.75

6.95

End

a Priestant a Ryan

26.8	19.1
307	22.5-
349	26.3
380	29.0
425-	32.9
172.9	129.8

22 493458	22 572596
50 11.35	58 2.96

19 40	+ 0.31	-36.83	+36.85 +02
44	0.30	36.87	36.84 -03
22 50	0.23	36.54	36.62 +08
58	0.33	36.67	36.60 -07
21 18		-36.728	
Rev R		0.084	
Jolly		0.064	
		0.074	

1864 Nov 23^d M. Cant

745

Arg + 1°	10	y Pegasus	Arg + 0°	22	Arg + 1°	25-	Arg + 1°	30
	3.3	36.0		0.6		15.5-		26.3
	6.8	39.7		3.9		18.7		29.5-
	10.3	43.3		7.5-		22.5-		32.9
	13.2	46.0		10.2		25.2		35.9
	16.9	50.1		14.0		28.8		39.8
	50.5	215.1		36.2		110.7		164.4

0^h 3^m 10.10 0 5- 43.02 0 7 7.24 0 8 22.14 0 9 32.88
 6 18.32

next page

Arg+2° 32	Arg+2° 37	Arg+1° 52	Arg+2° 46	Arg+1° 57
31.9	33.2	2.1	36.8	
34.9	36.5	5.1	0.2	
38.6	40.1	8.9	4.0	53.0
41.3	42.9	11.7	6.8	57.8
45.3	46.5	15.4	10.4	1.4
19 2.0	19 9.2	43.1	78.2	
			14.2	
0 10 38.10	0 12 39.84	0 16 8.62	0 17 3.64	0 17

1864 Nov 23^d M. East
743Monday 6th Feb 1885

1864pha

Arg 1°	60	Arg + 20	54	12 Cth	Arg + 0°	70	Arg + 0	77	
	20.8		43.7		28.0		21.4	48.0	
	24.3		47.0		31.3		23.4	57.6	
	27.8		50.6		35.0		26.9	53.2	
	30.6		53.4		37.8		30.0	58.0	
	34.4		57.5		41.5		33.7	1.7	
	137.9		252.2		173.6		134.4	274.5	
								274.5	
0 18	27.58	0 19	50.44	0 22	34.72	0 24	26.88	0 26	54.90
				23	9.95	23			

nut pag

3 Cassiopeae	Arg + 0° 94	Arg + 0° 98	Arg + 0° 106	3 Ceti
43.7	49.2	11.4	26.1	7.4
48.4	52.6	14.9	29.2	11.1
52.8	56.2	18.9	32.8	14.7
59.5	58.9	21.6	35.3	17.7
5.6	2.8	25.2	39.5	21.6
212.0	219.7	92.0	163.1	72.5
272.0	279.7			
0 28 54.40	0 30 55.94	0 32 18.40	0 34 32.62	0 36 14.50
				49.62

1864 Nov 23^d All East
TAS

Arg + 1°	131	Arg + 1°	137	S Pacini	μ Andromedae	43 Cephei	μ
	29.0		98	0.1	34.0	0	
	32.4		12.9	3.5-	38.2	0 ^h	49 44.3
	36.9		16.7	7.0	42.9	50	30.4
	38.6		19.4	9.6	46.3	57	63
	42.4		23.1	13.5-	50.8	51	58.7
	178.3		81.9	33.7	212.2		
0 37	35.66	0 39	16.38	0 41	6.74	0 48	42.44
						0 50	28.66

85° 36' 7.3 8.89/22

D 27.39 43.09
 C 27.50 44.0
 B 28.88 37.42
 E 30.85 87.95
 28.66

next page

E. Piccini	Arg + 10	203	Arg + 10	205	1	217	1	221
15.7		6.2		6.0		35.2		56.0
18.9		9.8		9.4		38.7		59.5
22.4		13.3		13.1		42.4		3.1
25.3		16.0		15.9		46.7		5.9
29.0		19.9		19.6		48.7		9.7
111.3		65.2		64.0		210.1		134.2
								14.2
0 53-22.26	0 57	13.04	0 58	12.80	1 ^h	1 42.02	1	3 12.84
57.59								

next page

* for Alpha			7448	AM					
Arg + 10° 197	B Persi			a Pucum	a Anitu		67 Ceti		
54.2			0.0	23.3		53.1		34.4	
57.6			5.2	26.6		56.5		37.9	
1.1			10.6	30.3		0.6		41.6	
4.0			14.7	32.7		3.6		44.3	
7.8			20.3	36.4		7.8		48.3	
124.7			50.8	149.8		121.6		206.5	
4.7						1.6			
1 24 0.94	1 29 10.16	1 54 29.96	1 59 0.32	2 9 41.30					
			35.83	10 16.41					

1864 Nov 23^d M. East

AM

Cassiopeia

 β^2 Ceti

36 Cassiopeia H

 ϵ Ceti γ Ceti

10.2

18.6

22.8

(21.6)

378

18.8

22.1

34.2

25.0

416

28.0

26.6

28.4

460

35.3

28.2

54.5

31.4

478

44.4

32.4

7.2

35.3

57.7

136.7

126.9

223.9

2 17 27.34

2 20 25.38

2 24

2 32

2 35 44.78

21 0.59

36 20.01

Next page

THS

Mm

41 Arctis	P. XIV 2175P	η Eridani	α Ceti shore mid of field	β Puppis
216	103	9.5	33.2	420
253-	181	13.1	56.7	462
295-	235-	16.5-	40.1	57.0
325-	30.5-	19.3	43.1	57.4
36.9	37.3	23.3	46.7	58.6
146.0	119.7	41.7	219.8	253.2
2 41 29.20	2 47 23.94	2 49 16.34	2 54 [39.96]	2 58 50.64

1864 Nov 23^d M East
 PHS

Pro 3 Eridani	3 Eridani	0 Tauri	y Pro Min SP	E Eridani	Pro 3
17.9	36.5-	52.8	56.3	54.0	
21.3	39.7	56.1	9.6	7.5-	
25.1	43.4	59.9	18.8	1.1	
27.7	46.2	2.5-	30.6	3.9	
31.5-	49.9	6.4	41.4	7.8	
1.2 3.5	21.5.7	177.7	156.7	74.3	
		297.7	96.7	14.3	
3 8 24.70	3 8 43.74	3 16 59.54	3 20 19.34	3 26 2.86	

<i>Antares</i>	608	6 Camel	H	dog +20	577	♂ Persai	♂ Eridani
	590		41.4		13.6	37.4	6.5
	20		49.1		17.0	42.2	10.2
	56		56.7		20.4	47.3	13.9
	84		2.9		23.2	57.0	16.6
	12.2		10.9		26.9	56.8	20.4
	89.2		161.0		101.1	234.7	67.9
	29.2		41.0				
3	27 5.84	3	29 8.20	3	31 20.22	3	32 46.94
						3	36 13.58

1844 Nov 23rd All East
JHSArg +1° 656 γ Tauri

0.6 47.3

3.8 51.1

7.6 54.8

10.3 57.7

14.1 20

36.4 212.9

272.9

3 37 7.28 3 38 54.58

39 29.75

Arg +2° 608 faint

29.7

33.1

37.0

39.5

43.2

182.5

3 40 36.50

Arg 0° 659

55.6

58.7

2.4

5.0

8.8

130.5

10.5

3 41 2.10

Arg 0° 661

39.3

42.5

46.3

48.8

52.6

229.5

3 42 45.90

End

5

Aug 10

667

2 Persei

γ Eridani

3.5-

58.2

6.8

20

10.5-

6.4

10.6

13.3

9.3

13.3

17.0

13.9

17.4

51.1

89.8

29.8

3 43 10.22

3 45 5.96

3 57 10.33
45.50

JWS

0	6	+0.33	-34.97	35.23		+06
	23	0.27	34.96	35.01		+05
	37	0.24	34.88	34.99		+11
	56	0.30	35.03	34.96		-07
	1 17	0.26	34.87	34.96	0.40 ^m	-34.962 +07
	3 39	0.37	34.80	34.76		-04
	3 52	0.25	-34.92	34.74	34.6	34.860 -18
	1 33	0.71	-34.918			+076

Row R 0.064
Joly 0.088
0.076

γ Eridani

0.0129

6.86

3.45

10.33

0.27

30

3.00

36

7.04

2	0	+0.37	-35.14	+34.98	-16
	10	0.26	34.85	34.97	+12
	21	0.30	34.91	34.95	+04
	36	0.29	34.94	34.94	00
2	17		-34.960		+077

L-M

+0.061

2.41

	$\delta\gamma$ Lati	$\delta\epsilon$ Lati	γ Lati	ϵ Lati	δ
Nov 10	+05	-03	+08		
11	+10	-16			
14	+04				
16	+08	-07		-01	
19		+11		-01	
23	+12	+04	00		
25	+24	00	-01		
30	+11	-02	-03	-01	
Dec 8	+20				
9	+01	-07			
14	00	00	-04	-02	
20	+02	+06		+04	
30	-03	-03	-07	-08	
Jan 14	+09				
12			+03	+03	
13			+12	+03	
16	+12		+06	+18	
18	+01	-02	-11		

Handwritten notes and a signature on the right margin.

copy very poor today

The paper from which the above was taken

Oct. 7	11	22	44	44	53	22.4
10	10	29	1	41	21.26	11 42.2
17	9	36	13	35	8.37	11 14 23.8
Nov 1	11	43	35	22	6.46	10 11 46.5

10	+ 0.135	4.3
11	+ 0.079	3.9
16	+ 0.050	1.8
19	+ 0.112	3.1
23	+ 0.061	2.4
24	+ 0.092	17.6
8	+ 0.163	3.8
11	+ 0.129	1.6
12	+ 0.057	1.2
6	+ 0.170	1.9
8	+ 0.188	3.1
4	+ 0.163	4.6

L-M

Nov	10	+ 0.135	4.3	
	11	+ 0.079	3.9	
	16	+ 0.050	1.8	
	19	+ 0.112	3.1	
	23	+ 0.061	2.4	

Mean ^{for} this book + 0.092 17.6 

Book	59	Dec 8	+ 0.163	3.8
	60	1865 Jan 11	+ 0.129	1.6
		- 12	+ 0.057	1.2
		- 16	+ 0.170	1.9
		- 18	+ 0.188	3.1
	61	- 24	+ 0.163	4.6

