1853phae.proj.:16

KG
11365
216

K.6

Jones No. 6-

From

February 12, 1853

To

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KG-113655.216

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KG 11865.215

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1853bMAE.proj.21e

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1853phae.proj...16

Feb. 12, 1853

Hour angle = $2^h\,18^m$

Wone 34 ... Obsd by C. W. T.

Tel. E of Pier

Angle of Pos obsd 90° 01′

cor ~~Not applied~~ + 0.01

Pos angle used = 90° 02

E.C.	4h 59m 00	Bar. 30.220	60°	Ext. 22°.0
	7h 2m 00	" 30.232	59	" 19.3

2h 42m 00.6	4.5	—	2h 42m 04.55
B			
43m 27.0	—		43m 31.00
43 —	31.1		43m 31.10
44m 27.0	30.7		44m 30.85
47m 6.4	9.5		47m 09.45
47m 43.1	47.2		47m 47.15
B.D.B.			
K?			
49m 6.8	10.7		49m 10.75
50m 1.4	5.4		50m 05.40
D			
52m 3.6	7.6		52m 07.60
52m 25.5	29.6		52m 29.55
52m 48.6	52.4		52m 52.50
53m 12.5	16.5		53m 16.50
54m 20.9	25.1		54m 25.00
55m 00.8	4.9		55m 04.85
57m 37.8	41.7		57m 41.75
58m 36.9	40.8		58m 40.85
59m 1.6	6.6		59m 05.60
2h 59m 37.9	42.0		2h 59m 42.00
3h 00m 6.8	10.7		3h 00m 10.75
1m 10.9	14.9		1m 14.90
BDB			
2m 13.9	17.7		2m 17.80
3m 20.0	25.1		3m 25.05
3m 36.5	40.2		3m 40.35
3m 57.5	1.3		4m 01.40

x of 2 28

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1853phae.proj.216

Nova 34 Dec 0°.10' to 0°.20'

Magnitude?

AR 2h.42m.05
Dec +0°.18'.43"

2d wire last nosing
1st wire last no sign doubtful

Abst

6.	8	43
B.		
10.11	5	13
10.11	4	04
10	3.	32
10.11	8	22
11.12	2	21
BDB		
12	9	47
12	6	17
12.13	6	50
D		
11/12	0	12
10.	8	25
12	3	56
12	5	08
11/	-0	19
10/11	6	12
7/8	6..	56
11/12	4	16
7.	2	02
10	10.	14
9	8	01
11/12	3	27
BDBD		
12	6	21
12	6	20
12	6	49
12	7	18

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1853phae.proj..rie

Wone 34

		Mean
B		
3.. 5..34·8	—	3..05..38·20
6..25·6	29·4	6.. 29. 50
6..59·7	3·6	7..03·65
7.. 11·3	15·2	7.. 15·25
7.. 49·3	53·3	7.. 53·30
8..21·1	25·2	8.. 25·15
8..56·0	54·0	8.. 54·00
B		
9..57·5	1·4	10..01·45
10 8	53·2	10.. 53·20
13..31·3	35·2	13.. 35·25
14..27·2	31·0	14.. 31·10
14..54·4	58·5	14..58·45
15..15·0	19·0	15..19·00
16.. 2·9	6·8	16..06·85
19..44·1	48·2	19..48·15
20.. 7·3	11·1	20.. 11·20
20..14·1	18·0	20. 18.05
B		
22..28·0	—	22..32.00
22..36·1	40·0	22..40.05
24.. 5·4	9·2	24..09.30
24 18·9	22·9	24..22.90
24..52·3	56·3	24..56.30
BDB		
26..35·3	39·2	26..39.25
26..58·2	2·2	27..02.20
28..57·9	2·3 ?	28
29..52·3	56·2	29..56.25
30.. 7·6	11·6	30..11.60
31..21·4	25·2	31..25..30
32..44·6	48·5	32..48.55
NoAR		
36..53·0	56·9	36..56.95
37..20·2	24·3	37..24.25

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1853phae.proj..21e

Blone 34

B

12	9 48	
11/12	1 26	grocer-
12	1 02	
10/11	6 12	
9/11	9 something 9/38	
9	3 13	
11	9 37	
B		
10/11	R of (~~wolkenlicht 12~~)	
1	5 12	
11	4 43	
11/12	5 44	
10	2 52	
10	- 1 9	
9	3 02	
11	2 38	
9	9.~~x~~ 1 29	
9	9.10 1 27	
11/12	B	
	9 32	
9	3 7	
11/12	8 ~~56~~	
10	0 27	
11/12	BOB 4 42	
11	8 02	
8.7	1 10 1..20?	
12	2 50	(R?)
11/12	4 05	
10/11	7 04	
7	9 04	
10	5 18	
11	1 42	No R
11/12	6 28	
11	0 12	

rebound wire hot

Clouds?

no sig

second overlook

Yaapa write Cat. 2 Jun 35

Where is it 10" too small?

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1853phae.proj..21e

Mlone 3.4

3	37 51.5	55.3	3 37 55.40
	7 53.0	56.9	37 56.95
	no R		
	41 41.0	44.9	41 44.95
x	43 8.7 ?	12.0	43 17.85
	43 41.6	—	43 45.60
	44 35.7 c	38.9	44 38.80
	45 30.8	54.8	45 54.80
	46 32.0	35.9	46 35.95
	48 32.1	36.1	48 36.10
	50 6.8	10.8	50 10.80
	51 18.2	22.3	57 22.25
	53 8.6	12.3	53 12.45
	53 24.2	28.3	53 28.28
	56 24.5	28.2	56 28.35
	56 36.0	40.1	56 40.05
	56 56.3	00.3	56 00.30
	58 3.8	7.9	58 07.85
3	59 53.9	57.2	3 59 57.30

R some difficulty on the sheet in regard to time add 17.3 to each min of 3.1st Column

4	1 52.1	56.1	4 01 56.10	4 2 09.1 - 13.1 — 4 2 13.10
	2 53.0	56.9	2 56.95	3 10.0 - 13.9 — 3 13.95
	5 10.2	—	5 14.20	5 27.2 — — 5 31.20
	5 43.3	47.3	5 47.30	6 00.3 - 04.3 — 6 04.30
	6 20.0	24.3	6 24.15	x 6 37.0 - 41.3 — 6 41.15
	6 29.7	33.8	6 33.75	6 46.7 - 50.8 — 6 50.75
4	66 44.6	48.4	6 48.50	7 01.6 - 05.4 — 7 05.50
	D.B. D.B.			
	7 42.0	46.1	7 46.05	4 7 59.0 - 03.0 — 8 03.05
	8 13.2	17.3	8 17.25	8 30.2 - 34.3 — 8 34.25
	8 39.4	43.5	8 43.45	8 56.4 - 00.5 — 9 00.45
	9 5.1	9.2	9 09.15	9 22.1 - 26.2 — 9 26.15
	9 56.3	0.4	10 00.35	10 13.3 - 17.4 — 10 17.35
	10 40.5	44.3	10 44.40	10 57.5 - 01.3 — 11 01.40
	11 24.9	28.9	11 28.90	11 41.9 - 45.9 — 11 45.90

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1853phae.proj..21e

Wolf 34

10-11	7 51	no dy
11	0,30	no dy
12	3.12	no AR.
10-11	1.48	very few stars
12-13	7.28	
12-13	2,40	2 min lost
11	7 43	
10-11	0 22	no stars in the field
10	2.31	
8	8.58	
11	7,12	
8	10.07	not a star in the field
11	2.18	
11	8 16	not a star in the field
11	5.37	
11-12	1. 12	
10	5,38	
10-11	1.33	
10-11	3.53	
12	3,22	on AR
12	1,06	
10-11	5 42	
12	6,17	2 min lost No stars in the field
6-7	-0.11	
11	9.32	
11	3.45	2 min lost
6	9.05	
OBS 3		
9.	6.28	
5-6	3,52	
8-9	8 29	double com of 6" 14M
10	2.30	
11-12	0 48	
11-12	7 50	
10-11	10 01	

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1853phae.proj..21e

Milone 34

~~4 11.54.9~~	~~59.0~~			
4 11.54.9	59.0	— 4.12.11.9	— 16.0	— 4.. 12.15.95
12.26.0	30.80	12..43.0	— 46.8	— 12..46.90
13..80.8?	1 or 2 w 15.5	14..07.3	— ~~~~	— 14..11.30
14..11.5	15.3	14..28.5	— 32.3	— 14..32.40
14..34.8	38.7	14..51.8	— 55.7	— 14..55.75
15..25.0	28.8	15..42.0	— 45.8	— 15..45.90
15..30.4	34.5	15..47.4	— 51.5	— 15..57.45
15..46.3 2	50.0	16..03.3 2	— 07.0	— 16..07.15
16..41.0	45.0	16..58.0	— 02.0	— 17..02.00
(D)				
17..15.7	—	17..32.7	— ~~~~	— 17..36.70
17..34.4	38.5	17..51.4	— 55.5	— 17..55.45
18..—	16.2	18..—	— 33.2	— 18..33.20
18..20.2	—	18..37.2	— ~~~~	— 18..41.20
19..52.2	56.3	20..09.2	— 13.3	— 20..13.25
21..06.9	10.9	21..23.9	— 27.9	— 21..27.90
22..22.5	26.3	22..39.5	— 43.3	— 22..43.40
22..39.8	43.7	22..56.8	— 00.7	— 23..00.75
22..55.0	58.9	23..12.0	— 15.9	— 23..15.90
23..12.5	16.5	23..29.5	— 33.5	— 23..33.50
23..32.4	36.4	23..49.4	— 53.4	— 23..53.40
(B)				
25..13.5 ?	1 or 2 w	25..30.5	— ~~~~	— 25..34.50
25..23.8	27.7	25..40.8	— 44.7	— 25..44.75
26..05.0	9.0	26..22.0	— 26.0	— 26..26.00
27..26.6	30.6	27..43.6	— 47.6	— 27..47.60
28..1.2	5.1	28..18.2	— 22.1	— 28..22.15
28..20.8	24.8	28..37.8	— 41.8	— 28..41.80
29..10.3	14.2	29..27.3	— 31.2	— 29..31.25
29..32.9	—	29..49.9	— ~~53.9~~	— 29..53.90
29—	37.6	29—	— ~~~~ 54.6	— 29..54.60
X 30..6.9	10.7 ?	rd appearance 30..22.9	— 27.7 ? 26.7	— 30..27.80 ? 26.80
30..59.7	3.7	31..16.7	— 20.7	— 31..20.70
31..5.7	9.8	31..22.7	— 26.8	— 31..26.75

The 2nd wire has been rejected

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Mdone 34

9-10	4.51	
11	9.46	
10-11	6.39	
9-10	3.27	
10	5.16	
7	1.00	
11	6.48	no dif
11	8.45	
11	5.31	
9		
8	8.45	2 wires lost
8-9	5.04	
9	1.35	
9	4.33	1st wire } no dif
		2nd wire }
11.	2.28	
10-11	8.33	
~~10-11~~	~~5~~.52	
6	3.03	
8	5.21	
9	3.56	
9	8.44	
	B	
8	2.39	
9	7.39	
9-10	6.46	
10-11	6.05	
8-9	1.33	
6	9.08	
11	5.12	no dif
6-7	6.38	
6-7	5.18	
11	7.42	
9	4.38	
7-8	3.42	

The declination of this star 644 Taylor is marked in his catalogues as doubtful. This remark probably belongs to 644 which is by our Obs 20" too small.

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None 34

4„ 31„ 42.9	46.6	4..31..59.9 − 03.8	4.. 32..03.85
31„ 44.8	48.6	32..01.8 − 05.8	32..05.80
2„ 12.8	16.7	32..29.8 − 33.7	32..33.75
33„ 12.6	16.4	33..29.6 − 33.4	33..33.50
33„ 42.9	46.9	33..59.9 − 03.9	34..03.90
34„ 13.8	17.8	34..30.8 − 34.8	34„ 34.80
34„ 47.2	51.1	35..04.2 − 08.1	35..08.15
34„ 53.9	58.4	35..10.9 − 15.4	35„ 15.65
36„ 14.2	18.0	36..31.2 − 35.0	36„ 35.10
36„ 25.1	29.0	36..42.1 − 46.0	36..46.05
36„ 46.8	50.7	37..03.8 − 07.7	37..07.75
36„ 49.2	53.3	37..06.2 − 10.3	37..10.25
38„ 9.6	13.5	38..26.6 − 30.5	38..30.55
38„ 49.6 ?	None		
38„ 53.0	57.1	39..10.0 − 14.1	39..14.05
39„ 14.9	18.8	39„ 31.9 − 35.8	39„ 35.85
39„ 43.8	47.9	40„ 00.8 − 04.9	40„ 04.85

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None 34

10	1.32	
12	4.31	no sig
7	5.48	
10	8.41	
5-6	6.35	
12	0.21	
10	10.08	
11-12	12.12	no sig
11	1.13	
10-11	8.21	
5-6	7.46	change
12	9.42	no sig
8-9	5.14	
11	1.13	
11	5.40	
8	9.58	
7-8	7.15	

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1853phae.proj...rie

1853 Feb 14th

Hour angle W.

Zone 35 = 34 Repeated

Tel. W. of Pier.

E.C. 4..41..10 Bar. 30.038 54° Ext. 16°7

6..52..00 .. 30.160 55 .. 15.6

Pos angle Obsd 90..1.

Ref. Cor +1 30

used 90..2..30

2..42..04.5	—	2	42..04.55
43..26.5	—		43..30.50
43 —	30.6		43..30.60
4 45..26.7	30.7	4	45..30.70
5 46..14.6	18.3	5	46..18.45
X 46..50.1	54.0		54.05
47.. 5.6	9.4		47..09.50
7..13.6	17.5		47..17.55
B			
7..43.1	47.0		47..47.05
8..50.8	54.7		48..54.75
9.. 6.8	10.8		49..10.80
50..01.3	5.2		50..05.25
52.. 3.2	7.2		52..07.20
52..26.5	29.5		52..29.50
52..48.2	52.3		52..52.25
53..12.1	16.2		53..16.15
54..20.9	24.9	2	54..24.90
B.D.			
55..00.8	4.8		
55..32.2	36.1	2	55..04.80
5..48.0	51.8		55..36.15
			55..[illegible].90

B B

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Zone 35 0°.10' to 0°.20'

Growing cold Wind rising

Magnitudes?

.6.7	8..43	
~~11~~	~~9..04~~	5..12?
.11	5..12	9..04?
.10	3..31	
.12	6..37	
.12	4..19	
9/10/11.	8..21	
.12	7..20	
	B	
.11	2..20	
.12	9..46	
.12	6..16	
.12	6..45	
.11/12	0..12	
.9,10	8..23	
.11	3..53	
11,12	5..08	
.11	- 0..21	
	B D	
.12	7..11	
.10	6..12	
.12	5..08	
.12	5..46	
	BB	

2d wire lost—
no sig 1st wire lost

2w. no Nr

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1853phae.proj...

Wone 35

2.57.37.7	41.6	2..57..41.65
8..37.0	41.0	58..41.00
59..1.2	5.3	59..05.25
59..17.0	20.8	59..20.90
2 59..38.0	41.9	59..41.95
3 00..6.6	10.5	3..00..10.50
0..41.6	45.7	3..00..45.75
1..10.9	14.8	1..14.85
2..08.1	—	2..12.10
2..13.5	17.6	2..17.55
2..36.2	40.3	2..40.25
3..20.9	24.8	3..24.85
3..36.2	40.2	3..40.20
3..57.3	1.2	4..01.25
4..39.3	43.2	4..43.25
5..34.3	38.1	5..38.20
6..25.4	29.5	6..29.45
6..40.9	44.8	6..44.85
6..59.5	—	7..03.50
7..11.3	15.5	7..15.40
7..13.1	16.9	7..19.00
7..49.5	53.5	7..53.50
8..20.9	25.0	8..24.95
8..49.9	53.9	8..53.90
9..7.8	11.7	9..11.75
9..22.9	27.1	9..27.00
9 32.8	36.9	9..36.85
9..57.6	1.8	10..01.65
10..49.0	53.0	10..53.00
10..—	58.7	10..58.70
11..50.2	54.0	11..54.10
12..17.2	21.0	12..21.10

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1853phae.proj..21e

.8	6.57	
.11	4.46	
.8.9	2.01	
.12	0.15	
x 11	10.10	
.9	8.00	

Very bad seeing Bright moon light

.11.12	5.03	
.10.11	9.20	

D

.13	1.28	
.11.	6.21	
.12	1.32	
.12	1.19	
.11	6.49	
.11.12	7.18	

B

.13	3.00	
.12	9.48	
.7	1.25	
.12	5.16	
.11	1.02	

D

.10	6.09	
.10	7.40	
.9.10	9.36	
.9.10	9.13	
.11	9.36	
x 11	10.16	
.12	7.35	
.12	6.25	

D

.10.11	8.06	
.11	5.09	
.12	2.56	
x 12	10.23	
.12	4.17	

certain

2d wire lost

2d wire lost

no obj

1st wire lost
comp. 13 may 12 B. P.

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1853phae.proj..116

Volume 35

3..12..34.9	39.0	3..12..38.95
13.. 2.4	6.4	13..06.40
B		
13..31.1	35.0	13..35.05
13..45.5	49.6	13..49.55
14..27.0	30.9	14..30.95
14..54.3	58.5	14..58.40
15..14.9	18.9	15..18.90
15..48.0	52.0	15..52.00
16.. 2.6	6.6	16..06.60
16..23.9	27.9	16..27.90
16..46.0	49.9	16..49.95
16..58.2	—	17..02.20
17.. 4.7	8.7	17..08.70
DBG		
18..54.3	58.4	18..58.35
19..33.2	37.1	19..37.15
19..43.8	47.7	19..47.75
20.. 7.0	11.0	20..11.00
20..14.1	18.0	20..18.05
B		
22..27.8	—	22..31.80
2 35.8	39.9	22..39.85
22—	44.3	22..44.30
22.43	—	
24..00	9.2	24..09.10
24..18.9	22.9	24..22.90
24..52.1	55.9	24..56.00
DB		
26..58.3	2.2	26..02.25
26..23.1	—	26..27.10
26..35.0	39.0	26..39.00
26..58.2	2.2	27..02.20
27..34.8	35.9	27..35.85
B		

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1853phae.proj ...16

Nova 35

•

.12 7.35
.12 9.29
D

.11 4.42
.12 0.56

Wind in gusts may slightly disturb the telescope

.11.12 5.43
.10 2.30
×11 −0.16
.12 7.52
.9 3.00
.12 5.51
×12 10.30
.13 9.10 2nd min last
.12 0.56
DBD
.12 4.18
.12 9.52
.12 2.56
.9.10 1.27
.9.10 1.24
D
.11.12 9.34 2nd min last
.9 3.03
.11.12 6.27 1st min last
.12 5.07 2nd min last
.11.12 6.55 1st min last
.10 0.26
.12 4.41
DB
.12 5.09
.12 0.09 2nd min last
.11 8.00
.8 1.17 Contains
.12 2.00
D

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1853phae.proj..216

Rhone 35

3,,28,,57.9	1.9 ~ 3	29..01.9
29,,52.0	55.9	29..55.95
30,,7.6	11.6	30..11.60
31,,21.4	25.2	31..25.30
31,,36.4	40.4	31..40.40
DBD		
32,,23.9	27.8	32..27.85
2,,44.3	48.5'	32..48.40
32,,56.7	00.7	33..00.70
33,,26.3	—	33..30.30
33,,34.3	38.2	33..38.25
34,,4.6	8.6	34..08.60
34,,29.0	33.0	34..33.00
B		
35..12.9	17.0	35..16.95
36..25.5	29.5'	36..29.50
36..52.6	56.4	36..56.50
36..59.2	3.0	37..03.10
37,,19.8	23.7	37..23.75
37,,51.2	55.0	37..55.10
37,52.6	56.6	37..56.60
38,,7.[illegible]	11.4	38..11.50
38,,17.9	21.9	38..21.90
39,,4.2	8.2	39..08.20
39,,7.8	11.7	39..11.75
40..24.0	27.8	40..27.90
40,,46.7	50.5'	40..50.60
41,,3.9	7.8	41..07.85
B		
41..40.4	44.5'	41..44.45
41,,46.7	50.7	41..50.70
42..18.3	22.3	42..22.30
42..42.0	45.8	42..45.85
43,,7.7	11.7	43..11.70
43..40.9	44.8	43..44.85
44,,35.2	39.1	44..39.15

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Mone 35

· 12	2,,47	
·11. 12	4,,6	
· 11	7 4	
· 9	9 3	
·12	6 37	
	D D B	
· 12	9,,54	
· 10.11	5,,17	
· 12	0,,26	
· 12	7,,40	2D was last
· 11.12	1,,52	
· 12	0,,32	
· 12.13	5,,18	
	B	
· 12	0,,05	
· 10	10,,33	
· 12	6,,28	
· 11.12	7,,18	
· 11,12	0,,10	
· 11	7,,48	
· 10,11	0,,24	nosiy
× 9	— 0,,34	
· 12	1,,14	
· 12	7,,41	
· 12	6,,57	no sig
· 12	8,,16	
· 12	3,,12	
· 12	2,,00	
	B	
· 10.11	1,,46	
· 11	7,,20	nosiy.
× 10	8,,10	Du - 10 maj.
· 10	10,,37	
· 12.13	7,,31	
· 12	2,,39	
· 12	7,,40	

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Clone 35

3 45 50.4	54.2	3 45 54.30
46 31.6	35.5	46 35.55
48 31.8	35.8	48 35.80
49 18.9	22.8	49 22.85
49 —	26.7	49 26.70
49 50.0	53.9	49 53.95
50 6.7	10.6	50 10.65
51 18.3	22.1	51 22.20
51 47.5	51.6	51 51.55
52 10.4	14.7	52 14.30
BD		
53 08.1	12.2	53 12.15
53 24.0	27.6	53 27.90
54 10.1	14.2	54 14.15
56 24.3	28.1	56 28.20
56 35.8	39.7	56 39.75
Clones		
3 58 8.6	—	58 07.60
4 00 10.2	14.1	4 00 14.15
0 56.0	—	00 56.00
2 8.5	12.4	2 12.45
~~3 09.7~~	~~13.9~~	
3 09.7	13.9	3 13.60
BBD		
5 26.9	30.8	5 30.85
5 41.2	45.0	5 45.10
6 00.1	4.1	6 04.10
6 11.6	13.6	6 15.60
6 36.7	40.4	6 40.55
6 46.4	50.3	6 50.35
7 01.3	5.3	7 05.30
B		
7 53.9	—	7 57.90
7 58.9	2.8	8 02.85
8 30.2	34.2	8 34.20
8 56.2	00.1	9 00.15

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1853phae.proj...216

None 35

· 11.12	0,,20	
· 11	2,,28	
	The clouds disturb the estimates of mag	
· 9	6,,37	
	6,,08	
· 11	8,,00	no sig 1st Apsis last
· 11	10,,24	
· 11	7,,11	
· 8	10,,04	
· 12	7,,55	
· 12	3,,20	
	BD	
11.12	2,,14	
· 12	8,,15	
× 11	10,,35	
· 12	5,,86	
· 11	1,,11	
	Clouds	
· 11	1,,31	2nd min last
× 10	3,,53	
· 12	3,,21	2nd min last
· 12	1,,05	
~~12~~	~~1,,05~~	
· 11	5,,40	
	BBD	
· 12	6,,20	
· 12	9,,57	
× 9	−0,,12	
· 12	5,,35	
· 11	9,,29	
· 11	3,,43	
· 6	9,,04	
	B	
· 12	9,,19	20 m last
· 9	6,,23	
· 6.7	3,,49	
· 10	8,,29	12 mg 11" yfol

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1853phae.proj..216

Mlone 35

4..09..21.9	25.5 —	4..09..25.90
10..12.9	—	4..10..16.90
10..31.6	35.5	10..35..55
10..57.1	1.0	11..01.05
11..16.7	20.7	11..20.70
11..41.7	45.6	11..45.65
12..11.7	15.7	12..15..70
12..19.4	23.3	12..23.35
D		
12..42.7	46.8	12..46.75
14..7.3	11.1	14..11.20
14..28.1	32.1	14..32..10
14..51.3	55.3	14..55..30
15..7.9	—	15..11..90
15..20.0	23.8	15..23.90
15..41.6	45.6	15..45.60
15..47.3	51.3	15..51.30
16..3.5	7.3	16..07.45
16..29.3	33.2	16..33.25
16..57.9	1.9	17..01.90
B		
17..32.5	36.2	17..36.35
17..51.1	55.2	17..55..75
18..3.2	7.2	18..07..20
18..33.0	—	18..37..00
18—	36.9	19..36.90
20..06.9	9.9	20..09.90
20..09.2	13.2	20..13.20
20..42.7	46.7	20..46.70
21..23.6	27.6	21..27.55
21—	31.8	21..31.80
21..51.7	55.7	21..55,70
22..9.5	13.3	22..13.40
D		
22..39.2	43.3	22..43.25
22..41.5	45.5	22..45.50
22..56.5	0.5	23..00.50

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1853phae.proj..216

My Vone 35

11	2,,28	
12	0,,47	2nd win lost
12	5,,49	
12	7,,32	
12	2,,39	
11	9,,58	
11	4,,30	
12	2,,28	
	D	
11,12	9,,47	
10	6,,34	
10	3,,26	
10,11	5,,13	
12	8,,28	2nd win lost
12	4,,24	
9	−0,,04	
11	5,,57	no sig.
11	8,,45	
12,13	4,,36	
11	5,,28	
	B	
12	8,,46	
10	5,,02	
12	4,,15	
10	1,,36	2nd win lost
10	4,,38	1st win lost
12	5,,25	
12	2,,26	no sig
12	1,,43	
11	8,,33	
12	8,,50	1st win lost
12	6,,18	
12	3,,56	
	Dob Images very unsteady	
11	5,,50	
11,12	4,,29	no sig
9	3,,08	

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1853phae.proj.216

Mone 35

4„23„11·9	15·8	~ 4.. 23.. 15.85
23„27·9	—	23.. 31.90
23 —	33·0	23.. 33.00
23„49·3	53·3	23.. 53.30
24„46·2	50·3	24.. 50.25
25„30·3	34·3	25.. 34.30
25„40·6	44·7	25.. 44.65
25„59·9	3·9	26.. 03.90
26„21·9	25·8	26.. 25.85
26„33·7	37·7	26.. 37.70
27„40·3	—	27.. 44.30
27„43·2	47·3	27.. 47.25
28„17·9	22·0	28.. 21.95
28„37·6	41·7	28.. 41.65
29„27·9	31·0	29.. 30.95
29„49·7	53·7	29.. 53.70
29„50·5	54·5	29.. 54.50
30„23·0	26·8	30.. 26.90
31„16·5	20·4 (26·5)	31.. 20.45
31„22·5	26·6	4„31„26·50
31„59·6	3·6	2„03·60
2„01·8	5·6	32„05·70
32„29·6	33·4	32„33·45
33„29·3	33·3	33„33·30
33„59·9	3·8	34„ 3·85
34„30·4	34·2	34„34·30
35„ 4·2	8·0	35„08·10
35„18·0	22·0	35„22·00

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1853phae.proj...216

None 35

9	5,,19
10	-0,,33
11	3,,64
11	8,,213
12	5,,37

2d was last
1st was low

9	2,,38
10	7,,137
12	4,,52
11	8,,47
12	8,,125
12	2,,15
11	6,,04
9	1,,31
7	9,,07

2d was last

11	5,,12
6	6,,37
6	5,,18
12	7,,41
10	4,,36
8	3,,39
10	1,,27
11	4,,28

K W 644
W 645

moving

6.7	5,,146
11	8,,38
6	6,,35
12	6,,17
11	10,,03
12	2,,41
11	1,,14
11	8,,17
6	7,,147
12	3,,106
9	5,,12
12	6,,48

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1853phae.proj..216

Done 35

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1853phae.proj..216

Wore 35

10 1.10
10 5.49
9 7.56
8 7.12

2 Were lost

1853. AR 4h 39m 35s.10
W 861 Dec +0° 17' 39".7
AR 4h 40m 03s.85
W 862 Dec 0° 16' 57".2

dAR 28s.75

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1853phae.proj..11e

Feb 17th 1853.

Zone 36 Dec 0h 10 to 0h 20

Del W of Pm H= 1h 41m W

Zero of par 90°.01

cor +1 used 90°.02'

E.C. 6h 04m 00 Bar. 30.000 58° Ext. Th. 24.4

" 8h 6m 00 " 30.036 60 " " 23.2

No.			
1	4h 29m 49.0	53.0	4h 29m 53.00
2	29m 49.8	53.7	29m 53.75
3	30m 22.2	26.2	30m 26.20
4	31m 15.7	19.8	31m 19.75
5	31m 21.9	26.9	31m 25.95
	D. B		
6	31m 58.8	2.8	32m 2.80
7	32m 1.1	5.1	32m 5.10
8	32m 28.9	32.8	32m 32.85
9	33m 28.7	32.6	33m 32.65
10	33m 59.2	3.2	34m 03.20
11	34m 29.9	33.8	34m 33.85
12	35m 3.5	7.5	35m 7.50
13	35m 17.3	21.2	35m 21.25
14	36m 30.5	34.3	36m 34.40
15	36m 41.2	45.2	36m 45.20
	B		
16	37m 5.8	9.8	37m 09.80
17	37m 49.4	53.3	7m 53.35
18	38m 25.8	29.8	38m 29.80
19	38m 33.4	37.4	38m 37.40
20	39m 5.6	—	39m 9.60
21	39m —	13.5	39m 13.50
22	39m 31.2	35.2	39m 35.20
23	40m 00.2	4.2	40m 4.20
24	40m 27.2	31.2	40m 31.20

1st i K of Zone 35

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1853phae.proj...16

R 4h to 6h Dec +0°.10′ to 20′

1853.0 ~~AR 4h 39m 35s.1~~
W 644 Dec to Zone 34-35
W 645 no sig

7 ·· 6.22
7 5.03
12 7.36
11 4.19
9 3.23

D B Very windy – Telescope steady

11 1.10
12 4.12
8 5.28
11 8.22
7 6.17
12 0.03
11 9.46
12 2.26
11 0.57
11 8.04

B

6 7.32
13 2.49
10 4.56
12 6.33
11 0.56
11 5.30
9.10 7.38
9 12 6.56
5.11

2d wire lost
1st wire lost no sig
1853 AR 4h 39m 35s.1
Dec +0° 17′ 39″.7

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1853phae.proj..016

Zone 36

25	4..40..49.6	53.5	4..40..53.55
26	41..06.9	10.8	41..10.85
27	41..21.8	25.8	41..25.80
	D		
28	43..00.2	4.0	43..04.10
29	..18.4	22.4	43..22.40
30	43..24.8	28.7	43..28.75
31	43..39.8	43.9	43..43.85
32	44..18.8	22.7	44..22.75
33	44..36.5	40.5	44..40.50
34	45..15.0	18.8	45..18.90
35	45..22.9	26.9	45..26.90
36	45..37.0	41.0	45..41.00
	BB		
37	46..52.0	56.1	46..56.05
38	47..14.3	18.2	47..18.25
39	47..26.3	30.2	47..30.25
40	47..28.9	32.8	47..32.85
41	48..00.4	4.5	48..04.45
42	48..53.7	57.6	48..57.65
43	50..42.2	46.0	50..46.10
44	52..14.3	18.4	52..18.35
45	52	22.0	52..22.00
46	52..52.1		52..56.10
47	53.. 5.2	9.2	53..09.20
48	53 5.9	9.8	53..09.85
49	53..30.8	34.9	53..34.85
	B		
50	54..27.7	31.7	54..31.70
51	55..50.6	54.5	55..54.55
	56..23.8	27.8	56..27.80
	57..38.8	42.7	57..42.75
	57 ~~44.3~~	44.3	57..44.30
	58..18.8	22.7	58..22.75
	58..59.6	3.4	59..03.50

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1853phae.proj...16

My Nova 86

12	1..47	
10.11	10..25	
12	3..25	
	D	
11	8..30	
11	9..14	
11.12	6..46	no sig
12.13	5..50	
12	8..07	
12.13	5..11	
12	0..39	
12	— 0..31	
9.10	— 0..02	
	B B	
16	4..50	
5	3..26	
11	0..30	
11	2..03	no sig.
9	1..42	nuhuh
12	1..31	
6.7	3..26	
11	7..07	
11.12	8..29	1st wire lost
12	9..35	2D wire lost
11	2..47	
12	6..13	no sig
11	4..40	
	B	
11	5..28	
11	1..34	
13	8..36	
	Clouds — fleeting	
12	5..48	
12	2..39	1st wire lost
10.11	4..42	
10	10..46	nuhuh

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1853phae.proj.216

Done 36

4 59 47.3	51.4	4 59 57.35
5 0 22.8	26.7	5 00 26.75
0 29.8	33.8	00 33.80
0 51.0	55.0	00 55.00
BD		
1 19.7	23.8	1 23.75
BD		
2 12.7	16.7	2 16.70
2 25.2	29.1	2 29.15
2 51.1	55.0	2 55.05
2 57.1	1.0	3 01.05
3 38.1	42.1	3 42.10
4 4.9	8.9	4 08.90
DD		
4 37.1	41.2	4 41.15
5 9.7	13.7	5 13.70
5 29.5	33.5	5 33.50
5 35.4	39.6	5 39.50
5 38.2	42.2	5 42.20
BB		
6 32.5	36.5	6 36.50
6 52.7	56.9	6 56.80
7 13.6	17.5	7 17.55
7 21.7	25.7	7 25.70
7 48.7	52.7	7 52.70
8 17.4	21.5	8 21.45
8 37.8	41.8	8 41.80
8 57.3	1.3	9 01.30
9 18.3	22.3	9 22.30
B		
10 10.4	14.4	10 14.40
10 21.6	25.9	10 25.85
11 4.1	8.0	11 08.05
11 27.1	31.0	11 31.05
11 49.2	53.2	11 53.20
11 57.5	1.5	5 12 01.50

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1853phae.proj.216

Nov 36

11	9.16	
12	10.04	
11	1.33	no sig
11,12	6.06	
	BD	
11	0.06	no sig
	BD	
12	2.03	
11	1.00	
11	4.50	
11	3.02	sig. in wrong place
11	7.07	
7	9.47	
	DD	
11	0.40	
12	9.54	
10	9.03	
11	8.12	
11	6.42	no sig.
	BB	
12,13	2.19	
12	7.03	
11	7.49	
10	5.46	
11	2.06	
	Clouds very annoying	
12	8.26	
12	7.34	
11	1.05	
12	2.48	
	B	
12,13	1.20	
12	9.35	
11	2.04	
10	6.45	
10	2.35	
11	3.44	

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1853phae.proj..216

Rome 36

5 12 22.9	26.9 —	5 .. 12 .. 26.90
13 .. 29.8	33.9	13 .. 33.85
13 .. 30.6	34.6	13 .. 34.60
~~13~~ 13 .. 52.4	56.5	13 .. 56.45
14 .. 21.9	25.8	14 .. 25.85
14 .. 46.0	49.9	14 .. 49.95
14 .. 54.8	58.8	14 .. 58.80
15 .. 25.7	29.7	15 .. 29.70
BB		
16 .. 00.4	4.6	16 .. 04.50
16 .. 37.7	41.4	16 .. 41.55
17 .. 9.4	13.5	17 .. 13.45
17 .. 23.5	27.4	17 .. 27.45
17 .. 43.6	47.5	17 .. 47.55
17 .. 59.9	3.9	18 .. 03.90
18 3.1	7.0	18 .. 07.05
18 .. 37.4	41.4	18 .. 41.40
19 .. 12.3	16.3	19 .. 16.30
19 .. 28.8	32.8	19 .. 32.80
19 .. 29.0	33.2	19 .. 33.10
19 .. 51.8	—	19 .. 55.80
20 .. 4.5	8.5	20 .. 08.50
20 ~~13.0~~	13.0	20 .. 13.00
BD		
20 .. 48.0	51.9	20 .. 57.95
21 .. 24.9	28.9	21 .. 28.90
22 .. 00.6	4.6	22 .. 04.60
22 .. 06.2	10.1	22 .. 10.15
22 .. 58.7	2.6	23 .. 02.65
23 .. 9.1	13.1	23 .. 13.10
23 .. 23.3	27.4	23 .. 27.35
23 .. 43.3	47.3	23 .. 47.30
24 .. 21.9	25.8	24 .. 25.85
25 .. 9.3	~~13.5~~	25 .. 13.36
25 .. 13.3	17.3	25 .. 17.30
BBB		

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1853phae.proj.216

Done 36.

12 5..54
11 2..07
11 9..03 no sig.
12 0..23
12 9..86
12 4..23
12 7..56
9 7..38
BB
11 1..33
12 3..01
11,12 9..36
11 5..44
10,11 0..36
9 3..36
11 3..16 nosig.
12 2..45
12 9..49
12 8..28
11 7..17 1st wire reject nosig.
2d wire lost
13 9..05
11 7..31 1st wire lost
12 6..46
BD
11 3..07
9 0..58
11,12 1..37
11 7..38 nosig
8 4..49
10,11 4..23
11 7..33
12 3..25
large number of small stars
12 10..03
12 6..48 2d wire lost
12 5..48 no sig
BBB

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1853phae.proj..216

Dome 86

5„25„44.4	48.4 —	5..25..48.40
26„19.2	23.3	26..23.25
26„25.5'	29.5`	26..29.50
26 36.3	40.1	26..40.20
D		
27„19.6	23.5`	27..23.55
27„43.4	47.4	27..47.40
28„55.0	—	28..59.00
29„ 1.6	5.6	29..05.60
29„ 9.7	13.6	29..13.65
29„24.9	28.8	29..28.85
30„05.2	—	30..09.20
30 14.2	18.2	30..18.20
30„28.8	32.8	30..32.80
31„ 6.0	10.0	31..10.00
31„25.9	29.9	31..29.90
32„ 9.8	13.8	32..13.80
32..29.7	33.7	32„33.70
32—	38.2	32..38.20
33„29.6	33.6	33..33.60
B		
33..49.6	53.7	33..53.65
35„25.0	28.9	35..28.95
36..24.8	28.7	36..28.75
36„43.2	47.1	36..47.15
36 56.0	59.9	36..59.95
37„24.2	28.0	37..28.10
37„34.0	38.1	37..38.05
D		
38„37.8	41.9	38..41.85
39„21.5`	25.5`	39..25.50
39„32.1	36.1	39..36.10
40„56.4	0.4	41..00.40
42„32.8	—	42..36.80
42„34.9	390	42..38.95
42„52.0	55.9	5„42..55.95

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1853phae.proj.0216

None 36

12 5,,22
11,12 6,,37
11 8,,22
12 8,,32
D

12 3,,09
11,12 6,,50
12 4,,03
11 0,,33
9 1,,41
11 7,,42
Using bad definition

12 8,,49
8 3,,28
12 2,,27
12 6,,50
11 7,,36
12 3,,10
12 2,,10
13 1,,48
6 5,,18
B

12 1,,39
11 10,,20
11 1,,17
12 2,,28
12,13 9,,47
12 8,,20
12 4,,59
D

12 10,,20
10 6,,33
9,10 4,,22
12 6,,24
12 1,,34
11 7,,16
11 9,,56

2D one city

2D one lost

2D one lost

1st one lost

2D one lost

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1853phae.proj..216

Mone 36

5h 43m 20.2	24.2	5h 43m 24.20
43 36.3	40.3	43 40.30
45 18.3	22.3	45 22.30
46 11.5	15.6	46 15.55
46 36.5	40.6	46 40.55
B D B		
47 44.7	48.9	47 48.70
48 43.1	47.0	48 47.05
48 48.1	52.2	48 52.15
49 40.2	44.0	49 44.10
49 51.4	55.4	49 55.40
50 1.9	5.9	50 05.90
50 33.3	37.3	50 37.30
50 39.2	43.3	50 43.25
51 31.3	35.2	57 35.25
B B		
53 13.9	17.9	53 17.90
53 35.0	38.8	53 38.90
53 53.2	57.3	53 57.25
54 3.8	7.8	54 07.80
54 55.3	59.3	54 59.30
55 2.6	6.5	55 06.55
56 3.8	7.7	56 07.75
56 37.0	41.0	56 41.00
57 11.7	—	57 15.70
57 19.0	22.9	57 22.95
57 37.7	41.6	57 41.65
57 39.9	43.8	57 43.85
Group		
58 4.7	8.7	58 08.70
58 15.0	19.0	58 19.00
58 27.9	32.0	58 31.95
58 41.7	45.6	58 45.65
58 59.4	3.3	59 03.35
59 9.3	13.3	59 13.30
59 —	18.2	5h 59 18.20
B		

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1853phae.proj..216

Nome 36

9	7,,35	
11	9,,00	
12	9,,57	
12	9,,53	
12	5,,49	
	DB	
11	4,,05	
10	4,,16	
10,11	1,,25	no sig
12	5,,13	
9,10	2,,00	
11	2,,24	
11	7,,20	
11	5,,52	
12	1,,58	
	13.13	
10	1,,57	redish
10	5,,31	redish
11	6	
11	9 52	
10	4,,21	
12	3,,02	duplex comp 12 mag 12" m.p.
11,12	4,,58	
12	2,,00	
12	3,,26	2d with last
10,11	10,13	
12	7,,15	
12	4,,35	no sig
	Group of small stars	
12	7,,48	
12	3,,43	
12,13	1,,45	
11,12	7,,22	
11	5,,22	
11	8,,28	
12	1,,34	1st with last
	B	

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1853phae.proj..216

None 35

5..59..32·2	36·3	5..59.36.25
5..59..34.0	38·0	59.38.00
6..00..12·1	16·2	6..00..16.15
0..28.2	32·2	00..32.20
1..19.6	23·6	1..23.60
—	27.3	1..27.30
B		
2..09·2	13·2	2..13.20
2..21·4	25·3	2..25.35
2..40.0	44·0	2..44.00
2..42·7	46·5	2..46.60
3..8·8	12·6	3..12.70
3..14·2	18·2	3..18.20
3..46·5	50·3	3..50.40
Stellarum aceruus		
D		
4..10·4	14·3	4..14.35
X 4..18.0 Mor2Dum		
4..27.3	31·3	4..31.30
4..47.5	51·4	4..51.45
5..14·4	18·3	5..18.35
5..36·9	40·8	5..40.85
5..48·3	52·3	5..52.30
Breah		
6..03·6	7·6	6..07.60
6.24.1	28·0	6..28.05
6..36.0	40.0	6..40.00
~~7.15.3~~	~~19·3~~	
7..15·3	19·3	7..19.30
7..35·6	39.5	7..39.55
7..56.1	00.0	8..00.05
C..23·7	27·5	8..27.60
8..29·1	33·7	8..33.15
8..43·8	47·7	8..47.75
DD		
9..29·7	33·7	9..33.70
9..49·1	53·1	9..53.10

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1858phae.proj..216

Dome 36

11	10,,22	
9,10	10,,26	
12	−0,,17	
13	2,,31	
9,10	−0,,19	
12	9,,53	1st wire lost
	⊠	
11,12	1,,06	
11,12	2,,35	
12	3,,31	
11	8,,58	no sig
9,10	0,,42	
12	9,,29	no sig.
13	10,,03	
	Stars very numerous	
	D	
11	3,,03	
12	8,,59	
12	4,,37	
11,12	1,,26	
11	9,,47	
9,10	1,,32	
12	9,,55	
	⊠	
11	1,,46	
11	8,,26	
12,13	7,,43	
	Immense number of stars passing less than 12 mag.	
11,12	10,,22	
12	8,,04	
12	4,,17	
10	1,,25	
12	0,,54	no sig.
12	2,,11	
	⊠D	
10	7,,03	
12	8,,38	

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1853phae.proj..216

Mond 38

6,, 9,, 54.3	58.3	— 6.. 09.. 58.30	
10,, 4.2	8.3	10.. 08.25	
10,, 23.1	27.1	10.. 27.10	
10,, 29.0	33.0	10.. 33.00	
10,, 55.5	59.5	10.. 59.50	
11,, 10.6	14.5	11.. 14.55	
11.. 28.3	32.3	11.. 32.30	
11.. 50.3	54.3	11.. 54.30	
11,, 56.1	00.0	12.. 00.05	
12.. 3.9	7.8	12.. 07.85	
BBD			
12.. 58.2	2.1	13.. 02.15	
13.. 23.5	27.6	13.. 27.55	
13.. 52.1	56.0	13.. 56.05	
13,, 59.7	3.7	14.. 03.70	
14,, 16.6	20.5	14.. 20.55	
15.. 00.8	—	15.. 04.80	
15.. 5.1	9.0	15.. 09.05	
15,, 21.5	25.4	15.. 25.50	
15,, 36.3	40.2	15.. 40.25	
15,, 38.2	42.1	15.. 42.15	
16.. 48.7	52.5	15.. 52.60	
B			
16 —	28.0	16.. 28.0	
16.. 56.4	0.3	17.. 00.35	
17,, 11.3	15.6	17.. 15.45	
17,, 45.2	49.3	17.. 49.25	
18,, 18.8	22.8	18.. 22.80	
18,, 42.2	46.2	18.. 46.20	
18,, 54.6	58.5	18.. 58.55	
19,, 34.1	38.0	19.. 38.05	

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1853phae.proj.216

None 30

10, 11	8,,02	nw sig,
10	9,,52	
7	6,,31	
11.12	7,,43	
12	5,,43	
12	3,,47	
12,13	10,,12	
11	3,,34	
11	4,,52	nsig
12	5,,19	
	BBD	
11	0,,50	
7	8,,07	yellow
12	1,,13	
11	6,,54	
12	5,,50	
12	5,,03	2d min lost
11	−0,,17	
12	3,,36	
10	5,,58	
12	6,,04	
11.12	8,,06	
	B	
12	2,,00	1st min lost
12	9,,52	
9,10	3,,12	
12	8,,17	
11	10,,07	
12	8,,39	
12	9,,58	
6	3,,07	duplex comm. 13 may 8" n.p.

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1853phae.proj..11e

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1853phae.proj..216

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1853phae.proj..116

1853 Feb. 21st Zone 37 = 36 repeated.

EC 5h 55m Bar 30.008 65 Ext 22.0 Clear & fine
6.. 47 30.027 66 .. 20.2

4..29..48.4	—	4..29..52.40
29.. —	53.2	29.. 53.20
31..15.4	19.3	
31..21.5	25.3	31.. 19.35
31..58.5	2.4	31.. 25.40
		32..02.45
32..08	04.7	32..04.70
32..28.2	32.2	32..32.20
B.		
33..28.2	32.2	33..32.20
33..58.8	2.7	34.. 2.75
34..29.4	33.3	34..33.35
35..02.9	6.8	35..06.85
36..29.9	33.9	36..33.90
36..40.8	44.8	36..44.80
37..05.2	39.3	37..39.25
37..49.0	52.9	37..52.95
38..25.3	29.8	38..29.20
39 —	5.0	39..05.00
39.. 9.0	12.9	39..12.95
39..30.8	34.7	39..34.75
39..59.7	3.7	40..03.70
40..26.6	30.6	40..30.60
BB.		
40..49.0	52.9	41..52.95
41..06.2	10.2	41..10.20
41..21.2	25.1	41..25.15
D		
42..59.7	3.7	43..03.70
43..17.8	21.9	43..21.85
43..24.6	28.1	43..28.10
44..36.0	39.9	44..39.95
45..14.5	18.5	45..18.50
45..22.2	26.3	45..26.25
46..36.5	40.6	46..40.55

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1853phae.proj..21e

$0^{\circ}..10'$ to $0^{\circ}..20'$ Zones 37 = 36 repeated.

·7	6.20	over 1st wire
·7	5.02	" 2nd wire
·12	7.26	
·12	4.20	
·9-10	3.25	
·11	1.11	
·12	4.12	no sig
·9	5.29	
	B	
·11	6.22	
·7	6.20	
·12	0.04	
·11	9.47	
·11	0.57	
·11	8.03	
·7	7.32	
·13	2.47	
·10-11	4.56	
11	0.55	1st lost
·11	5.29	no sig
·10	7.40	
·9	6.57	
·12	5.11	
	B B	
·12	1.47	
·10	10.27	1st doubt
·12	3.25	
	D	
·11	8.31	
·11	9.15	
·11-12	0.47	
12-13	1.11	
·11-12	0.29	
·11	−0.30	1st in doubt
10	−0.00	

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1853phae.proj...1e

Zone 37

4 46 51.7	55.5	4 46 55.60
47 13.8	17.7	47 17.75
47 25.8	29.8	47 29.80
47 —	32.2	47 32.20
48 00.0	3.8	48 3.90
48 53.2	57.0	48 57.10
50 41.6	45.6	50 45.60
52 13.7	17.7	52 17.70
52 —	21.3	52 21.30
52 51.5	55.3	52 55.40
53 4.6	8.5	53 08.55
—	9.0	9.00
53 30.3	34.3	53 34.30
54 27.0	31.0	54 31.00
55 50.2	54.0	55 54.10
56 23.0	27.0	56 27.00
57 38.2	42.2	57 42.20
57 39.9	43.9	57 43.90
58 18.2	22.0	58 22.10
58 58.9	2.8	58 2.85
59 46.7	50.7	59 50.70
5 00 22.2	26.0	5 00 26.10
0 29.1	33.2	0 33.15
0 50.5	54.3	0 54.40
1 19.3	23.2	1 23.25
2 12.0	16.0	2 16.00
2 24.7	28.4	2 26.55
2 50.4	54.5	2 54.45
2 56.7	00.6	3 00.65
3 37.6	41.4	3 41.50
4 4.2	8.2	4 08.20
4 36.7	40.6	4 40.65
5 9.2	13.1	5 13.15
5 28.9	32.8	5 32.85
5 34.9	38.9	5 38.90
5 —	41.8	5 41.80

5 00 26.10

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1858phae.proj...16

. 11	4.50	
5	3.26	
. 11	0 30	
. 11	2 03	
. 10	1.41	1st lost
. 12	1 32	reddish
9	3. 27	
. 11	7. 06	
. 11	8.29	1st lost no dig
. 4	9.34	
. 11	2.45	
. 11	6.13	1st lost
. 11	4.40	
. 7	5.28	
. 11	1.51	
. 13	8. 36	
. 12	5.436	
. 12-13	2 37	
. 10	4.42	
x 9.	10 47	only
. 10-11	9.17	
x 12	10.06	
. 11	1 37	
x 4 ~	6.06	1st Doubtful
x 11	-0 06	
	13	
. 11-12	2,02	
. 11	1.00	
. 11	4 50	
11-12	3.02	
. 11	7 08	no dig
6	9. 18 must be 9.48	Com 20" n f
. 11	0 . 310	Com 10' nf
. 7	9.57	
. 11 .	9.05	
. 11	8.13	
. 11	6.43	1st lost

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1853phae.proj..116

Zone 87

5h 06m 32.0	35.9	5h 06m 35.95
6m 52.3	56.2	6m 56.25
7m 12.9	16.8	7m 16.85
7m 21.2	25.1	7m 25.15
7m 27.0	31.0	7m 31.00
7m 48.2	52.1	7m 52.15
8m 17.0	20.9	8m 20.95
8m 37.2	41.2	8m 41.20
8m 56.7	00.7	9m 00.70
9m 17.8	21.8	9m 21.80
D. B		
10m 9.9	13.8	10m 13.85
10m 21.2	25.1	10m 25.15
11m 3.6	7.5	11m 07.55
26.7	30.5	11m 30.60
11m 48.8	52.8	11m 52.80
11m 56.8	00.9	11m 00.85
12m 22.2	26.1	12m 26.15
B		
13m 29.9	—	13m 33.20
13m —	33.9	33.90
14m 21.3	25.2	14m 25.25
14m 45.6	49.6	14m 49.60
14m 54.3	58.2	14m 58.25
15m 25.2	29.2	15m 29.20
15m 59.9	3.9	16m 3.90
16m 37.0	40.9	16m 40.95
17m 8.8	12.8	17m 12.80
17m 22.9	26.8	17m 26.85
17m 43.0	46.9	17m 46.95
17m 59.7	3.4	18m 03.55
18m 36.9	40.8	18m 40.85
19m 12.0	15.9	19m 15.95
19m 28.8	32.8	

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1858phae.proj...16

Zone 37

.13	2.19
.12	7.03
.10-11	7.49
.10	5.46
.11	4.58
.11	2.06
.12	8.26
.12	7.32
.11	1.05
.11-12	2.50
	9.03
.13	1.27
.11-12	9.35
.11	8.04
.10	6.45
.10	2.34
.11	3.24
.12	5.53
.11	2.07
.11-12	9.03
.12	9.37
.11	4.22
.11	7.57
.11	7.39
.11-12	1.34
.13	3.01
.11-12	9.37
.11	5.45
.11	0.37
.10-11	3.37
.12-13	2.46
.12	9.50
.11	7.18

Rudarki

2 just
1 last

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1853phae.proj..11

None 37

5.. 20.. 3.9	8.1	5.. 20.. 09.00
20.. 47.5	51.3	20.. 51.40
B		~~21.. 28.40~~
21.. 24.5	28.3	21.. 28.40
22.. 00.3	4.3	22.. 4.30
22.. 5.7	9.8	22.. 9.75
22.. 58.2	2.3	22.. 2.25
23.. 8.6	12.5	23.. 12.55
23.. 23.0	26.9	23.. 26.95
23.. 42.8	46.8	23.. 46.80
24.. 21.4	25.4	24.. 25.40
24.. 45.2	49.0	24.. 49.10
25.. 12.9	16.8	25.. 16.85
25.. 43.9	47.9	25.. 47.90
26.. 18.8	22.8	26.. 22.80
26.. 25.1	29.0	26.. 29.05
26.. 35.9	39.8	26.. 39.85
27.. 19.2	22.9	27.. 23.05
27.. 42.9	46.9	27.. 46.90
28.. 54.6	58.5	28.. 58.55
29.. 1.2	4.9	29.. 05.05
29.. 09.2	12.9	29.. 13.05
29.. 24.4	28.4	29.. 28.40
30.. 4.7	8.7	30.. 08.70
30.. 13.7	17.8	30.. 17.75
31.. 5.6	9.6	31.. 9.60
31.. 25.4	29.4	31.. 29.40
32.. 9.6	13.6	32.. 13.60
32.. 29.4	33.4	32.. 33.40
33.. 29.1	33.0	33.. 33.05
B		
33.. 49.2	53.2	33.. 53.20
35.. 24.7	28.6	35.. 28.65
36.. 24.4	28.2	36.. 28.30
36.. 42.6	46.7	36.. 46.75

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1858phae.proj...21e

None 37

1 d

.11 7 33
.11 3 08
3

9 -10 0 59
.11-12 1 36
.11 7 38
.7 4 29
.11 4 24
.11 7 33
.12 3.25
x 12 10 04
.12-13 6 51
.12 5 47
.12 5. 22
.11 6 37
.10-11 8 21
.10-11 8 32
.11 3 18
.11 6 51
.12 4 03
.11 0. 33
.1 1 42
.11 7. 45 5 doubtful
.12 6 48
.9-10 8 28
.12 6 51
.11 7 37
.12 3 10
.12 2 10
.5 5 19
B
.12 1.39
x *11 10, 21
.11 1.18
.11 2 29
4 7

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1853phae.proj...16

None 37

5 36 55.7	59.6	5 36 59.65
37 23.5	27.5	37 27.50
39 21.1	25.0	39 25.05
39 31.7	35.7	39 35.70
40 55.9	~~59.4~~	40 59.90
42 34.6	38.6	42 38.60
42 51.5	55.5	42 55.50
43 19.8	23.7	43 23.75
43 35.8	39.8	43 39.80
45 17.9	21.9	45 21.90
46 11.2	15.2	46 15.20
46 36.1	40.0	46 40.05
BDB		
47 44.2	48.3	47 48.25
48 42.8	46.8	48 46.80
48	51.9	48 51.90
49 39.7	43.7	49 47.70
49 51.1	55.0	49 55.05
50 1.5	5.3	50 05.40
50 33.0	37.0	50 37.00
50 39.0	43.0	50 43.00
51 31.0	34.9	51 34.95
52 10.8	14.7	52 14.75
53 13.7	17.7	53 17.70
53 34.9	38.8	53 38.75
53 53.0	57.0	53 57.00
54 3.6	7.5	54 07.55
54 55.1	59.0	54 59.05
55 2.2	6.1	55 06.15
56 03.4	7.4	56 7.40
56 36.7	40.6	56 40.65
57 11.5		57 15.50
57 18 9	22.8	57 22.85
57 37.3	41.2	57 41.25
58 14.8	18.7	58 18.75
58 27.7	31.8	58 31.75
58 41.5	45.3	58 45.40

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1853phae.proj...21e

Wolf 37

11	8.21	
10-11	+0.33	
10-11	4.22	
12	6.24	
~~12~~	~~+3.3~~	
11	7.26	
11	9.58	
9-10	7.35	
11	9.00	
12	9.59	
11-12	9.54	
12	5.49	
	13 0 13	
11	4.05	
10-11	4.19	
10 11	1.26	
12	5.13	
10	2.02	
10-11	2.23 5 25	
11	7.22	
11	5.53	
12	1.59	
11	-0.05	
10	1.58	
10	5.32	
10 11	8 6	
10 11	9.52	
11	4.21	
12	3.02	
11-12	4.58	
12	2.01	
11	3.27	
10 11	10-13 doubt	
12	7.06	
12	3.43	
13	5.43	
11	7.22	

2 last

1 doubtful

Rodrick

Rodrick
Dunn Glmf

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1853phae.proj...16

None 37

5`..58..59.1	2·9	5`..59..08.00
59.. 6.9	12·9	59..12·90
5` 59..32·2	36·1	5..59..36·15
6..00..11·9	15·9	6..00..15.90
00..16·8	20·7	00..20.75`
1..19·5`	23·4	1..23·45`
BBB		
2..9.0	13·0	2..13·00
2..21·3	25·0	2..25`.15`
2..39.8	43·8	2..43·80
3..08.6	12.4	3..12·50
3..14·3	18·0.	
4..10·2	14·2	3..18·15`
4..27·2	31·1	4..14.20
4..47.2	51·1	4..31.15`
5`..14.2	18·1	4..57.15`
5`..36·6	40.6	5..18.15`
~~6..3·5`~~	~~7·4~~	5..40.60
6..03·5`	07·4	6..07·45`
6..23·8`	27·8	6..27·80
6..35·9	39·9	6..39·90
7..15·2	19·2	7..19·20
7..55·9	59·9	7..59·90
8..23·6	27·5	8..27·55`
8..29·0	33·0	8..33.00
8..43·9	47·6	8..47.60
9..29·5`	33·5`	9..33·50
9..49.0	52·9	9..52·95`
9..54.2	58·0	9..58·10
10..4.1	7·9	10..08·00
10..22·9	26·8	10..26·85
10..55·2	59·2	10..59·20
11..10.6	14·5`	11..14·55
11..28·1	32·0	11..32·05`
11..50·1	54·0	11..54·05`
11..55·8	59·8	11..59·80
6..12..3·5`	7·6	6..12..07·55`

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1853phae.proj..216

None 87

·11 5 22
-11 8 28
+10 10 22

·12· =0.17
·13· 2.30
·9-10× -0.17
8 83.13
·12· 105
·11· 234
·11-12 3.30
·9 041
·12 7 41
·12· 7.27
·11· 303
·12· 8 37
·10 1.26
·11-12 949
·9 132
9

·11-12 147
·11· 826
·12 13 7.43
·11× 10 28
·12· 4 17
·10 1.26
·12· 0 ?-
·12· 2.11
·10 704
·12· 8,38
·10-11 802
·11· 9.12
·7 623
·11· 5.43
·11-12 3.48
12 13× 10 12
·11· 3 34
·11· 4 53
·11-12 9 21

1 lost

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1853phae.proj...16

Rome 37

6h 12m 38.1	2.0	6h 13m 02.05s
13m 23.4	27.3	13m 27.35s
13m 51.9	56.0	13m 55.95s
13m 59.6	3.6	14m 03.60
15m 00.8	4.7	15m 04.75s
15m 6.2	10.1	15m 10.15s
15m 36.3	40.2	15m 40.25
~~16~~ —	52.5'	16m 52.50
16m 24.1	28.0	16m 28.05s
16m 56.2	00.2	16m 00.20
17m 11.5s	15.4	17m 15.45s
17m 45.3	49.2	17m 49.25s
18m 18.6	22.5s	18m 22.55s
18m 42.0	46.0	18m 46.00
18m 54.2	58.2	18m 58.20
19m 33.8s	37.7	19m 37.75s
6h 19m 54.5s	58.5s	19m 58.50

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1853phae.proj...116

Done 37

	D		
	11	0.49	
	8	8.05	
	11-12	1 12	
	11-12	6 53	
	12	5.03	
	12	5.52	
9	10	3.03	no ej
	11	8.08	1 lost
	11	2.00	
	11	9 55	
	10	3.14	
	12-13	8.17	
	11	10.07	
	12	8.33	
	12	9.39	
	6	3.06	coston double Comet 13 8" inf
	12	4.12	

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1853phae.proj..216

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1853phae.proj..21e

Feb. 26th Zone 38 Dec 0°.00' to +0°.10'

Par Angle 90°.02'
med 90.02

H angle = 0h.51m.40s W
8.42.20
7.50.40 = R of end of Zone

EC 6h.48m Bar. 30.060 - 60° Ext 22°.5 Clear & calm
8.43 30.080 63 22.0

1st * = K of Zone 33

5h.58	42.4	46.4	5..58..46.40
59	23.1	27.1	59..27.10
6.00	7.9	11.9	6..00..11.90
B			
1..	7.9	11.8	1..11.85
1..	16.8	20.8	1..20.80
2..	23.9	27.9	2..27.90
D			
3..	3.5	7.5	3..07.50
3..	9.5	13.4	3..13.45
3..	37.3	—	3..41.30
..	47.1	—	3..57.10
3..	59.4	—	4..03.40
4..	2.2	6.0	4..06.10
5..	16.5	20.5	5..20.50
5..	17.7	21.6	5..21.65
5..	30.2	34.3	5..34.25
5..	49.8	53.6	5..53.70
BB			
6..	34.1	38.1	6..38.10
6..	48.9	52.9	6..52.90
7..	33.8	—	7..37.80
7..	44.8	48.8	7..48.80
8..	1.3	—	7..05.30
8..	5.2	9.0	7..09.10

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1853phae.proj...11e

9h Preuss 1513 R 5h 58m 46,0 28h Preuss 1534 R 5h 59m 26,0
Dec +0° 2' 25" Dec +0° 6' 20"

8 2.25
7 6.24
12 3.08
B
10 1.00
11 6.08
12 4.04
D
10 9.33
12 6.10
12 1.37
10.11 9.23
11 7.32
11 9.41
Group of stars of 11 mag. – stars very numerous of all sizes
11 3.37
10 6.30
12 1.40
11 2.38
B B
12 3.29
12.13 5.34
11.12 1.35
12 3.25
12 2.21
9 1.58

W 1513
W 1534 1539

no sig.
2d wire lost
2 " "
2 " "
no sig.

no sig.

2d wire lost

2d wire lost
no sig

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1853phae.proj..21e

Done 38

6 08 16.9	21.0	6 08 20.95
8 38.8	42.7	8 42.75
BD		
9 1.9	5.8	9 05.85
9 16.1	20.1	9 20.10
9 33.0	36.9	9 36.95

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1853phae.proj..216

None 38

12 1.37
9 4.41
B D
11.12 3.21
12 7.12
11 1.38
10.11 7.46
12 3.35 1st v in last
11 9.47 no sig.
12 7.17
B B
11 8.41
12 2.43
12.13 7.16
12 5.16
12 1.50
12 8.37
12 3.15
9 5.42
12 9.18 2d v in last
12 4.19 " "
12 1.37
B
12 9.23
12 1.13
10 4.22
9 4.03
10 2.11
Stars of all sizes very numerous
12 2.17
11 5.10
D B
11 3.01 2 v in last
12 8.12
12 9.33
11 7.33

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1853phae.proj..21

None 38

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1853phae.proj.216

12	3..36	
	DD	
12	7..21	
10	5..33	
12	2..59	
12	1..26	Missing 2
12	4..35	2D wire lost
12	9..28	no sig?
	B	
12	1..04	
12	0..00	
9	0..50	
12	5..05	2nd D wire lost —
9	5..06	slightly reddish
11	4..14	1st wire lost
12	5..16	
	BB	
12	0..34	
12	0..06	2D wire lost
12	0..61	
9.10	0..51	
11.12	8..54	
12	2..10	
12	2..57	
9.10	5..16	yellow
12	4..08	
10	0..35	
10	8..57	reddish
	D	
12,13	3..38	2D wire lost
12	1..30	
12	6..08	
10	6..22	no sig.
11	9..40	
10	6..07	
12	0..24	
10	9..32	

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1853phae.proj..21

Mone 38

6 34 25.5	29.5	6 34 29.50
34 36.0	40.0	34 40.00
35 20.	24.0	35 24.00
35 37.2	41.2	35 41.20
B		
36 22.2	26.1	36 26.15
36 33.0	37.0	36 37.00
36 52.2	56.2	36 56.20
36 53.2	57.2	36 57.20
37 27.2	—	37 31.20
37 28.5	—	37 32.50
37 35.4	39.3	37 39.35
D		
38 17.0	—	38 21.00
38 —	21.0	38 21.00
38 44.5	48.4	38 48.45
39 13.8	17.7	39 17.75
39 14.9	18.8	39 18.85
39 25.4	29.4	39 29.40
39 46.9	50.9	39 50.90
40 3.2	—	40 07.20
40 12.6	—	40 16.60
40 22.4	26.4	40 26.40
B		
40 42.4	46.3	40 46.35
40 56.6	00.6	40 00.60
41 11.3	15.4	41 15.35
41 11.7	15.7	41 15.70
41 27.7	31.7	41 31.70
42 1.4	5.3	42 05.35
42 26.4	30.3	42 30.35
BD		
43 08.00	11.0	43 11.00
43 16.7	20.7	43 20.70
43 28.2	—	43 32.20
B		

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1853phae.proj.21e

Zone 38

B D B D B		
11	0..04	
12	8..01	
12	8..32	
9 B	8..14	
12	0..58	
12	1..47	
8	3..58	yellow
12	2..30	ns sig
11.12	6..84	2D wine bad
10	5..12	ns sig " "
7 D	7..22	
12	1..00	2W wine bad
12	7..51	pt wine bad
12	6..49	
12	2..04	
12	3..08	ns sig.
12	2..13	
12	−0..07	
12	8..40	2D wine bad
12	5..03	" " "
12 B	7..24	
11.12	9..46	
11	0..40	
9	2..21	
11	5..04	
10	6..03	
12	7..48	
12	9..36	
B D		
11	1..45	
10	6..46	
12	5..31	2 fine red star 2° wine bad
B		

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1853phae.proj..21e

Mon 38

6..43..42.7	46.5	— 6..43..46.60
43..52.9	57.0	6..43..56.95
D		
44..40.9	44.8	
44..49.9	53.9	6..44..44.85
45. 6.7	10.8	44..53.90
45..29.6	33.6	45..10.75
45..43.0	46.5	45..33.60
45..53.8	57.7	45..46.90
46..10.7	14.6	45..57.75
~~15.7~~		46..14.65
46..19.7	—	46..23.70
46..32.1	36.0	46..36.05
46..37.4	41.7	46..41.55
BD		
47..06.7	10.7	47..10.70
47..45.2	—	47..49.20
47 —	49.0	47..49.00
D		
48..12.8	16.8	48..16.80
48..32.8	36.8	48..36.80
49..13.6	17.6	49..17.65
49..31.2	35.3	49..35.25
49..57.6	55.4	49..55.50
49 —	59.3	49..59.30
50..24.2	28.1	50..28.15
50..26.8	30.9	50..30.75
50..42.7	46.6	50..46.65
50..52.3	56.3	50..56.30
51..24.1	28.0	57..28.05
51..44.7 B	48.7	51..48.70
52..08.4	12.4	52..12.40
52..24.4	28.5	52..28.45
52..26.0	30.0	52..30.00
52..48.1	52.0	52..52.05
52..54.4	58.3	52..58.35
* 53..1.0	Mon 2 wire?	6..

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1858phae.proj..21e

Wow 38

11 D.. 41
9 S.. 21

D

Stars less than 12 may exceedingly minimum

12 4..53
12 3..23
12 10..09
11 2..07
12 6..53
11.12 2..38
11 4..50
12 5..00 2D win lost
12 3..25
10 – 0..02 ? duplex

BD

10 8..52
11.12 1..03 2D win lost
12 3..30 nothing 1 win lost

D

12 2..37
12 4..01
11 1..26
12 4..25
10 4..52
12 3..26 1st win lost ?
12 8..09
12 9..10 Drosig
12 7..50
12.13 7..23
10 7..32 Break ?
12 4..07
12 4..49
11 8..23
11 8..27 nothing
12 7..11
10 6..44
11 1..10

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1853phae.proj..21e

Rome 38

6	53	52.3	56.2	6	53	56.25
	54	11.3	15.2		54	15.25
	54	30.8	34.7		54	34.75
	54	53.3	57.2		54	57.25
	55	BB 22.0	25.9			
	55	24.3	28.3		55	25.95
	55	35.6	39.6		55	28.30
	56	04.8	8.9		55	39.60
	56	37.4	41.3		56	08.85
					56	41.35
	56	48.2	—		56	52.20
	57	01.0	5.0		57	05.00
	57	22.0	26.0		57	26.00
	57	52.2	56.1		57	56.15
		D				
	58	14.8	18.8		58	18.80
	58	45.2	49.1		58	49.15
	59	19.2	23.1		59	23.15
	59	38.5	42.4		59	42.45
6	59	54.9	59.0	6	59	58.95
7	00	25.2	29.2	7	00	29.20
	0	57.1	1.1		01	01.10
	1	8.1	12.1		1	12.10
	1	24.3	28.4		1	28.35
		D B				
	2	12.0	16.0		2	16.00
	2	54.9	58.9		2	58.90
	3	00.0	—		3	04.00
	3	08.8	12.9		3	12.85
	3	36.6	40.6		3	40.60
	3	53.4	57.2		3	57.30
	4	8.1	12.1		4	12.10
	4	58.0	2.0		5	02.00
	5	18.3	22.2		5	22.25
	5	43.2	47.1		5	47.15

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1853phae.proj.216

Wone 38

Great numbers of very small stars

11 5.57
9 7.36
10 10.16
12 3.26

BB

12 1.04
10 1.40
10 0.56
12 3.36
12 4.56
12 4.29 d wimlost
10 3.05

Greater part of 12 may passed unobserved

11.12 8.15
12 6.42

D

12 3.53
10 3.00
12 0.48
10 4.18
12 7.17
10 6.30
10 8.05
12 5.48
12 2.16 (gt. misforms

D B The stars throughout the zone have been distributed with

11 10.31
9 5.46
12 2.25 d wimlost nothg
11 8.02
12 4.08
10 0.50.
12 6.21
12 −0.27
12 3.50
12/13 6.34 No K to this 8?

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1853phae.proj..21e

None 88

7h 05m 49.3		7 05.47.15
7h 6m 14.8	—	7h 06m 18.80
6 —	19.3	6.. 19.30
6m 42.7	46.6	6.. 46.65
6m 58.4	2.4	7.. 02.40
7m 17.3	21.2	7.. 21.25
7m 26.4	30.6	7.. 30.50
7m 44.00	48.0	7.. 48.00
8m 05.1	9.0	8.. 09.05
8m 38.3	42.5	8.. 42.40
8m 40.2	44.2	8.. 44.20
9m 1.1	—	9.. 05.10
9m 08.6	12.5	9.. 12.55
9m 20.6	24.7	9.. 24.65
9m 50.0	54.1	9.. 54.05
10m 35.9	39.8	10.. 39.85
11m 4.7	8.7	11.. 08.70
X 11m 34.1	38.2	11.. 38.15
11m 54.0	57.9	11.. 57.95
12m 3.1	7.2	12.. 07.15
12m 22.0	26.0	12.. 26.00
12m 40.0	44.0	12.. 44.00
12m 54.7	58.7	12.. 58.70
13m 56.8	00.9	13.. 00.85
13m 29.6	33.7	13.. 33.65
13m 30.0	34.1	13.. 34.05
14m 1.2	5.1	14.. 05.15
14m 55.9	59.8	14.. 59.85
15m 1.0	5.1	15.. 05.05
15m 16.9	21.0	15.. 20.95
15m 34.2	38.0	15.. 38.10
15m 39.3	43.1	15.. 43.20
16m 1.2	5.2	7h 16m 05.20

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1853phae.proj..216

Wone 38

6	0.12	
☌		
10	−0.13	2d min last
10.11	7.37	1st min last
12	6.34	
☌		
12	−0.16	
12	3.50	
12	6.36	
6	6.33	
12	−0.25	
12	8.05	
12	8.04	very sig.
12	6.18	2d min last
12	4.21	
12	7.13	
☌		
12	8.59	
9.10	6.09	
12	7.14	
12	3.02	
12	6.19	
12	8.30	1st min 0.2 early
12	1.36	
11.12	2.39	
11.12	3.50	
11	9.34	no sig
11.12	6.14	
12	5.04	no sig
12	2.10	
7	2.07	
11.12	9.11	no sig.
12	9.57	
10	5.18	
11.12	8.49	
☌		
12	0.44	

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1853phae.proj..11e

Vol. 38

7.16.19.9	24.1	7.. 16.. 24.00
16..27.5'	31.5'	16.. 31.50
16..43.4	47.4	16.. 47.40
16..57.9	1.9	17..01.90
17..19.9	24.9	17.. 24.90
18..10.2	14.2	18.. 14.20
18..19.3	23.3	18.. 23.30
18..49.9	53.9	18.. 53.90
18..54.8	58.8	18.. 58.80
D		
19..41.6	45.6	19.. 45.60
20.. 6.7	10.7	20.. 10.70
20..39.5'	43.3	20.. 43.40
21..21.8	25.8	21.. 25.80
21..27.4	31.3	21.. 31.35
22..40.7	44.6	22.. 44.65
23..00.7	4.8	23.. 04.75
23..18.0	22.1	23.. 22.05
23..38.7	42.6	23.. 42.65
23..49.0	53.0	23.. 53.00
BBB		
25.. 9.3	13.3	25.. 13.30
25..47.3	57.3	25.. 57.30
25..55.3	59.2	25.. 59.25
26.. 6.3	10.4	26.. 10.35
26..56.1	00.2	27.. 00.15
26..59.0	2.9	27.. 02.95
27..35.3	39.2	27.. 39.25
DBD		
28..22.4	26.5'	28.. 26.45
28..28.9	33.0	28.. 32.95
29..01.5'	5.6	29.. 05.55
29..44.2	48.3	29.. 48.25
30.. 1.5'	5.6	30.. 05.55

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1853phae.proj..11e

Wolf 38

B

12 2,,25

11,12 2,,19

10 5,,04

12 3,,48

12 7,,55

12 3,,52 duplex comp 8" n. fol. 12 mag. nosly.

12 7,,02

12 8,,52

12 10,,12

D

10,11 9,,03

12 0,,25

12 0,,23

11,12 4,,06

12 6,,32 no sig

There appears two faint nebs

Neb. 6,,20 B at beginning of break = $7^h\ 22^m\ 15^s.6 - 0^s.14^k = 7\ 22\ 15.5 = \alpha\ 1853.0$

10 0,,04 nosig

11 9,,48

12 0,,42

10 4,,39

11 9,,28

BBB

10 1,,49

12 2,,11

11 8,,30

12 8,,38

11 1,,04

11 1,,13 no sig.

12 1,,04

D.B.D.

12 2,,42

12 −0,,04

12 3,,14

12 7,,18

12 7,,11

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1853phae.proj..21e

Nova 38

7h 30m 35.1	39.0	7h 30m 39.05
31m 6.5	10.4	31m 10.45
31m 21.6	25.6	31m 25.60
31m 40.1	44.1	31m 44.10
B		
32m 49.3	53.2	32m 53.25
34m 34.4	38.3	34m 38.35
34m 52.5	56.6	34m 56.55
35m 07.2	11.2	35m 11.20
B		
35m 45.6	49.5	35m 49.55
36m 8.0	12.0	36m 12.00
37m 35.3	39.3	37m 39.30
37m 51.0	54.9	37m 54.95
38m 53.7	57.8	38m 57.75
39m 6.6	10.5	39m 10.55
39m 43.8	47.9	
39m 53.8	57.8	39m 47.85
40m 16.8	20.7	39m 57.80
		40m 20.75
S		
41m 8.1	12.1	41m 12.10
41m 46.0	50.1	41m 50.05
41m 59.1	3.0	42m 03.05
42m 10.2	14.2	42m 14.20
42m 32.4	36.6	42m 36.50
44m 15.5	19.6	44m 19.55
44m 40.7	44.7	44m 44.70
44m 55.1	59.2	44m 59.15
45m 28.3	32.3	45m 32.30
45m 29.1	33.0	45m 33.05
45m 43.0	46.9	45m 46.95
45m 50.3	54.3	45m 54.30
B		
46m 23.0	27.1	7h 46m 27.05
30.9	~~31.0~~	7h 46m 30.90

34.90
46 30.90
22
LC 30.6

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1853phae.proj.216

Wone 38

12 6.13
11 7.11
8 5.22
12 9.02
B

11.12 3.03
Stars less numerous
11 8.59
12 7.00
12 3.10
B

12 9.56
11 9.55
12 3.33
12 8.39
12 7.48
12 5.28
~~11 1.13~~ 8
11 1.13
11 8.06
10 10.13
D

10 7.18
12 7.44
12 1.45
11 9.30
12 2.34
11 0.27
14 10.16
12 1.37
12 3.10
12 9.55
12 1.30
11 7.56
B

17 1.40
12 0.15

yellow

0.15
6g.c
5 4.0

duplex comp 13cm 5" s.f.

no sig

2° wine last

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1853phae.proj..116

Wone 38

7..47..51.9 66.9 ~ 7..47..56.00

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1853phae.proj.216

Nova 38

10 6.38
Long. B

2d micrometer.
R 9h. 50m
Dec. 0° to 0°. 10'

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1853phae.proj..21e

March 15 Time 3ʰ Dec 0°.00′ to 0°.10′

H 1ʰ.28ᵐ (236) 9ʰ.14ᵐ
9 18.33
7.50.33

E.6, 7.25.00 Bar 30.030 38° Ext 16.9
9.27.00 30.092 65 " 14.6

Line of Position 90°.03′

		Mean
5.58.42.4	46.2	5.58.46.30
9.23.1	27.2	9.27.15
B		
6.00.07.9	12.0	6.00.12.95
1.8.0	12.0	1.12.00
2.24.1	28.1	2.28.10
~~3.01~~	~~3.8~~	~~3.03.40~~
3.03.8	7.8	3.07.90
038	7.7	7.85
3.9.6	13.7	3.13.65
D		
3.37.6	41.5	3.41.55
3.47.2	51.2	3.67.20
3.59.5	—	4.03.50
4.2.3	5.9	4.06.01
BB		
5.16.6	20.6	5.20.60
17.7	21.7	5.21.70
30.3	34.4	5.34.35
5 49.7	53.7	5.53.70
6.34.3	38.3	6.38.30
6.49.1	53.3	6.53.20
7.34.0	37.9	7.37.95
7.45.0	49.0	7.49.00
8.01.5	—	8.03.55
8.5.2	9.2	8.09.20
8.38.9	42.9	8.42.90

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1858phae.proj...1e

Begins in R 5h.58m.46s
Dec 0°.02'.25"

Ends in 7h.50m.30s

Nova 39 = 38 repeated

8,9 2.23
7,8 6.23
B

=W 1513
W 1534

12 3.06
11 0.57
11 6.06
Windy cold! very cold!
12 4.02
10,11 9.37
12 6.08
no obs
Dub
12 1.36
11 9.22
10,11 9.50
11 9.40
2D with bst
Group of 11 mag. stars
BB
10,11 3.30
11 6.29
12 1.38
10 2.37
12 5.27
12,13 5.32
11 1.32
12 3.24
12 2.20
9 1.56
6,7 4.38
no obs
2D with bst
no obs

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1853phae.proj..116

		Mean
6..09..01.9	5.9	6..09..05.90
9 16.2	20.2	9..20.20
DOB		
9..33.0	37.0	9..37.00
10..26.9	30.9	10..30.90
10..38.3	42.2	10..42.25
11..07.8	11.9	11..11.85
11..42.5	46.4	11..46.45
12..16.0	19.9	12..19.95
13..13.9	17.9	13..17.90
13 29.9	33.8	1383.85
13..38.4	42.4	13..42.40
14..11.3	15.2	14..15.25
14..19.2	23.1	14..23.15
B		
14 38.5	42.5	14..42.50
53.9	57.9	14..57.90
15 —	6.0	15..06.00
15..08.4	12.3	15..12.35
15..37.9	41.9	15..41.90
15 45.9	49.9	15..49.90
B		
16..09.0	13.0	16..13.00
16 18.2	22.2	16..22.20
16 31.3	35.3	16..35.30
17 4.9	8.8	17..08.85
17..24.2	28.1	17..28.15
DBD		
17..53.4	57.3	17..57.35
18.. ~~foot~~	03.5	18..03.50
18..26.8	30.7	18..30.75
18..44.1	48.0	18..48.05
D		
19..17.5	21.2	19..21.25
19..23.6	27.6	19..27.60

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1853phae.proj.216

11.12 3"18
12 7"10
D B

11 1"36
10.11 7"45
10.11 9"45
12 7"14
11 8"41
11.12 2"41

Large number of bright stars have passed in the last 15 min unobs

12 7"14
12 5"14
12 1"48
12 8"35
12 3"14
~~D~~ B5

9" 5"39
12 9"16
12 4"17
12 1"36
12 9"20
12 1"11
B

10 4"20
8 4"01
10 2"09
11.12 2"15
10.11 5"08
DBD

12 2"59
12 6"10
11 7"32
12 3"34
D

12 7"21
11 5"32

no obs

1st wm lost 5

many 1st mins lost

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1853phae.proj..11e

6..19..58.2	2.3	6..20..02.25
20..33.3	37.2	20..37.25
21..50.0	53.9	21..53.95
21..59.8	—	22..03.80
22..11.1	15.1	22..15.10
22..38.8	—	22..42.80
2..43.5	47.7	22..47.60
23..24.1	28.1	23..28.10
23..58.1	2.0	24..02.05
B		
24..30.2	34.2	24..34.20
25 5.2	9.1	25..09.15
25..24.3	28.2	25..28.25
25..51.1	56.1	25..55.10
25..59.3	3.3	26..03.30
26..34.6	38.6	26..38.60
27..16.7	20.7	27..20.70
27..49.5	—	27..53.50
27..53.0	57.0	27..57.00
28..20.6	—	28..24.60
28..25.3	29.3	28..29.30
29..15.4	19.4	29..19.40
29..34.4	38.4	29..38.40
D		
30..17.4	21.4	30..21.40
BBB		
31..20.4	24.3	31..24.35
31..46.5	50.4	31..50.45
32 32..43.9	47.9	32..47.90
X 32 32..55.7	59.7	32..59.70
33..49.5	54.8	33..54.80
O 34..25.7	29.9	34..29.80
34..36.3	40.2	34..40.25
35..2.7	6.8	35..06.75
35..20.2	24.3	35..24.25
35..37.7	41.7	35..41.70
36..22.3	26.4	36..26.35

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1853phae.proj..11e

	12	2.37	
	12	4.34	
	12	1.03	
X	12	−0.02	2d wire lost
	9	0.48	certain
	12	5.03	2d wire lost reddish
	12	5.02	
	12	5.04	
	12	−0.07	
	B		
	9	0.50	
	11	5.59	
	12	2.08	
	11.12	2.55	
	9	5.14	yellow
	10	0.33	
	9.10	8.55	
	13	3.36	2d wire lost
	12	1.27	
	10	6.06	2d wire lost
	10	6.16	
	10	6.04	
	13	−0.25	
	D		
	12	4.56	
	B B3		
	10	9.81	
	12	2.14	
	12	2.47	
	11	3.03	
	12	3.38	1st wire doubt
	10.11	0.02	
	11	8.00	
	12	9.32	certain
	12	8.29	
	8	8.13	
	13	0.57	

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1853phae.proj...16

6.36.52.5	56.4	6.3 – 6.	36.56.45
6.53.5	57.4		36.57.45
7.28.9			37.32.90
~~37.35.5~~	~~39.6~~		
7.35.5	39.6		37.39.55
8.49.9	48.9		38.48.90
9.14.0	18.2		39.18.10
39.15.2	19.2		39.19.20
B			
40.03.3	7.5		40.07.40
12.9	16.9		40.16.90
40.22.7	26.8		40.26.75
40.42.7	46.5		40.46.60
40.57.0	1.0		41.01.00
41.11.8	15.7		41.15.75
41.27.9	32.0		41.31.95
BB			
42.01.9	5.8		42.05.85
42.26.8	30.8		42.30.80
43.7.4	—		43.11.40
43.17.0	21.0		43.21.00
43.28.3	32.3		43.32.30
43.43.1	46.9		43.48.00
43.53.2	57.1		43.57.15
44.41.3	45.2		44.45.25
44.50.2	54.0		44.54.10
45.7.1	11.1		45.11.10
45.29.9	33.9		45.33.90
45.43.1	—		45.47.10
45.54.0	58.0		45.58.00
46.10.9	14.9		46.14.90
46.32.3	—		46.36.30
46.38.0	42.0		46.42.00
BDB			
47.07.0	11.0		47.11.00
47.45.5	49.4		47.49.45
48.12.9	16.9		48.16.90
48.33.0	37.1	6	.48.37.05

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1853phae..proj..11e

9	3.,37		
12	2.,26		no sig
11.12	6.,30		} repeat AR
10	5.,10		
6.6	7.,18	certain	
11.12	6.,46		
12	2.,03		
11.12	3.,07		no sig
	B		
13	8.,38		
12	5.,02		
12	7.,22		
11.12	9.,44		
10.11	0.,38		
9	2.,18		
9.10	6.,01		
	B B		
12	7.,41		
12	9.,35		
11	1.,43		2d wire lost
10	6.,43		from red star
12	5.,29		
11	7.,38		
9.10	9.,18		
12	4.,51		
12	3.,21		
12	10.,07		
10.11	2.,06		
12	6.,50		2d wire lost
11	2.,37		
10	4.,47		
12	3.,23		2d wire lost
9.10	0.,06		
	B D B		
10	8.,50		
12	0.,59		
12	2.,36		
10.11	3.,58		

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1853phae.proj...1e

6..49..13.9	17.9	6..49..17.90
49..31.5	35.5	49..35.50
49..51.9	55.9	49..55.90
50..24.3	28.4	50..28.35
50..26.9	30.8	50..30.85
50..42.9	47.0	50..46.95
50..52.7	56.7	50..56.70
51..24.3	28.2	51..28.25
51..45.0	49.0	51..49.00
52..8.7	12.8	52..12.75
52..24.8	28.9	52..28.85
52..26.3	30.4	52..30.35
52..48.4	52.2	52..52.30
52..54.7	58.8	52..58.75
53..52.5	56.6	53..56.55
B		
54..11.6	15.6	54..15.60
54 31.0	34.9	54..34.95
54..53.3	57.5	54..57.40
BBS		
55..22.3	26.1	55..26.20
55..24.6	28.7	55..28.65
55..35.8	39.7	55..39.75
56..5.1	9.1	56..09.10
56..37.7	41.7	56..41.70
57..1.2	5.2	57..05.20
57..22.1	26.2	57..26.15
57..52.4	56.4	57..56.40
58..15.2	19.1	58..19.15
58..45.3	49.3	58..49.30
59..19.4	23.4	59..23.40
59..29.0	33.0	59..33.00
6..59..38.8	42.8	6..59.42.80
D		
7..00..25.6	29.5	7..00..29.55
00..57.2	1.3	01..01.25
1..8.5	12.3	1..12.40
1 24.7	28.7	1..28.70

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1853phae..proj..116

1	12	7..23
1	12	4..24
D	9.10	4..30
1	12	8..03
1	12	9..06
1	12	7..47
1	13	7..20
1	10	7..29
1	12	4..05
1	11.12	4..47
1	11	8..20
1	11	8..25
1	12	7..10
1	10	6..43
1	11	6..56
	B	
1	9	7..34
	10	10..14
	13	3..24
	B	B D
1	12	1..01
1	11	1..37
1	9	0..55
1	11.12	3..33
1	12	4..34
1	10	3..04
1	10.11	8..13
1	12	6..40
1	12	3..50
1	9.10	2..58
1	11.12	0..47
1	10	−0..33
1	10	4..16
	D	
1	10	6..26
1	11	8..01
1	12	5..46
1	12	2..14

no sig

no sig

no sig

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1853phae.proj...1e

7„ 02„12.3	16.0 —	7.. 02.. 16,15
DB		
2„ 55.2	59.2	2.. 59.20
3.. 9.1	13.2	3.. 13.15
3..36.8	40.8	3.. 40.80
03„53.6	57.6	3..57.60
4„08.2	12.3	4..12.25
58.3	2.2	5..02.25
5„ 18.4	22.5	5..22.45
5..43.6	47.5	5..47.55
6„ 152	—	6..19.80
6 —	19.6	6..19.60
7„17.7	—	7..21.70
7„ 26.8	30.8	7..30.80
7„44.3	48.3	7..48.30
8„ 5.4	9.3	8..09.35
8„38.7	42.7	8..42.70
8„40.6	44.6	8„ 44.60
9.. 1.6	5.3	9..05.45
9„13.6	17.5	9..17.55
9„21.2	25.0	9..25.10
B		
10„36.1	40.2	10..40.15
11„ 5.0	9.1	11..09.05
11„34.4	38.4	11..38.40
12„3.7	7.6	12..07.65
12„22.4	26.3	12..26.35
12..40.3	44.3	12..44.30
12„55.	59.1	12..59.05
13 —	1.2	13..01.20
13..30.0	34.0	13..34.00
14„ 1.7	5.6	14..05.65
BB		
14„563	00.2	15..00.25
15„17.1	21.2	15..21.15
15„343	38.3	15..38.30
15.39.6	43.6	15..43.60
16„ 1.6	5.7	16..05.65

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1853phae..proj..116

11 10..27

D B

	9	5..43
	11	8..01
	12	4..06
	10	0..46
	12	6..18
x	12	−0..31
	12	3..47
	6·7	0..09
x	9..10	−0..13
	12	7..35
	12	3..48
	12	6..33
	5	6..30
y	12	−0..27
	12	8..01
	12	8..01
	12	6..15
	12	4..19
	12	7..11

2d wire lost
1st wire lost
2d wire lost

no sig.

no sig.

B

	9	6..04
	11.12	7..11
	12	2..58
	12	8..27
	12	1..34
	10.11	2..37
	11.12	3..47
	11	9..32
	11	6..12
	12	2..08

1st wire lost

B B

	7	2..06
	12	9..54
	10	5..16
	12	8..17
	12	0..42

no sig.

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1858phae.proj...16

7 16 27.8	31.9 ~	7 16 31.85
16 43.9	47.9	16 47.90
16 58.1	2.1	17 02.10
17 20.3	24.1	17 24.20
D		
17 56.2	00.1	18 00.15
18 10.6	14.5	18 14.55
18 50.2	54.1	18 54.15
19 42.0	46.0	19 46.00
20 6.9	10.9	20 10.90
20 39.8	43.7	20 43.75
B		
21 11.1	15.2	21 15.15
21 21.9	26.0	21 25.95
21 27.7	31.5	21 31.60
22 41.0	46.0	22 45.00
23 1.1	6.1	23 05.80
23 18.5	22.4	23 22.45
23 39.1	43.0	23 43.05
28 49.5	53.3	23 53.40
25 9.7	13.6	25 13.65
D B		
25 47.7	51.7	25 57.70
25 55.5	59.5	25 59.50
26 56.7	00.5	26 00.60
26 59.4	03.3	27 03.35
27 35.5	39.4	27 39.45
28 29.3	—	~~28 33.30~~
29 2.0	5.9	
30 1.8	5.9	29 05.95
30 35.5	39.5	30 05.85
31 7.0	10.9	30 39.50
31 22.0	26.0	31 10.95
31 40.6	44.3	31 26.00
		31 44.45
B		
32 49.7	53.6	32 53.65
34 34.7	38.7	7 34 38.70

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1853phae.proj..21e

V2 2..17
10 5..04
12 3..46
V2 7..54
D
V2 7..01
11.12 3..48
11.12 8..48
9.10 8..59
12 0..23
12 0..23
B

11 8..11
11 4..04
11 6..30
10 0..01
11 9..44
12 0..39
9 4..37
11 9..26
10 1..46
D B
12 2..08
12 8..28
11 1..05
11 1..10
12 1..02
12 2..39 — No Ab Oct. 2, 1853
— 0..06
12 3..11
12 7..07
12 6..09
11.12 7..07
7.8 5..17
12 8..59
B
11 8..00
11.12 8..56

evnh 11/ 5" n. fol

no sig.

2 min last
1st min last

× 236 9h..02m
Hyi 1..29
7..33

yellow

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1853phae.proj..116

7„ 34„ 52·8	56·8	7„ 34„ 56·80
35„ 7·7	11·7	~ 7„ 35„ 11·70
35„ 45·8	49·7	35„ 49·75
36„ 08·3	12·3	36„ 12·30
37„ 35·6	39·5	37„ 39·55
37„ 51·4	55·3	37„ 55·35
38„ 54·1	58·0	38„ 58·05
39„ 7·0	10·8	39„ 10·90
39„ 44·2	48·0	39„ 48·10
39„ 54·2	58·1	39„ 58·15
41„ 08·5	12·4	41„ 12·45
41„ 46·2	50·3	41„ 50·25
42„ 10·7	14·7	42„ 14·70
42„ 32·9	36·9	42„ 36·90
44„ 15·9	19·8	44„ 19·85
44„ 55·5	59·6	44„ 59·55
45„ 29·4	33·3	45„ 33·35
45„ 43·2	—	45„ 47·20
45„ 50·7	54·7	45„ 54·70
46„ 23·3	—	46„ 27·30
46„ 27·2	31·2	46„ 31·20
47„ 52·3	56·2	47„ 56·25
48„ 19·7	23·7	48„ 23·70
48„ 32·2	36·1	48„ 36·15
48„ 57·9	2·0	49„ 02·95
49„ 05·9	9·9	49„ 09·90
49„ 13·3	14·5	49„ 17·40
7„ 49„ 33·1	37·0	~ 7„ 49„ 37·05

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Zone 39 R 5.59 Dec 0°.00'
to 7.50 to 0.10

12	6.59	
12	3.08	
12	9.53	
11	5.53	
12	3.30	
12	8.35	
12	7.44	
12	5.26	
11	1.11	
11	8.05	crash 13 may 41 8.1
10	7.17	
12	7.42	
11	9.26	
12	2.31	
11	0.25	
12	1.34	
12	9.53	
12	1.28	2 win lost
11	7.54	
10 11	1.38	2 win lost
12	0.12	no rec
11	6.36	
11	7.19	
10 11	3.30	
12	2.30	
11	2.55	
11	3.08	
12	3.52	

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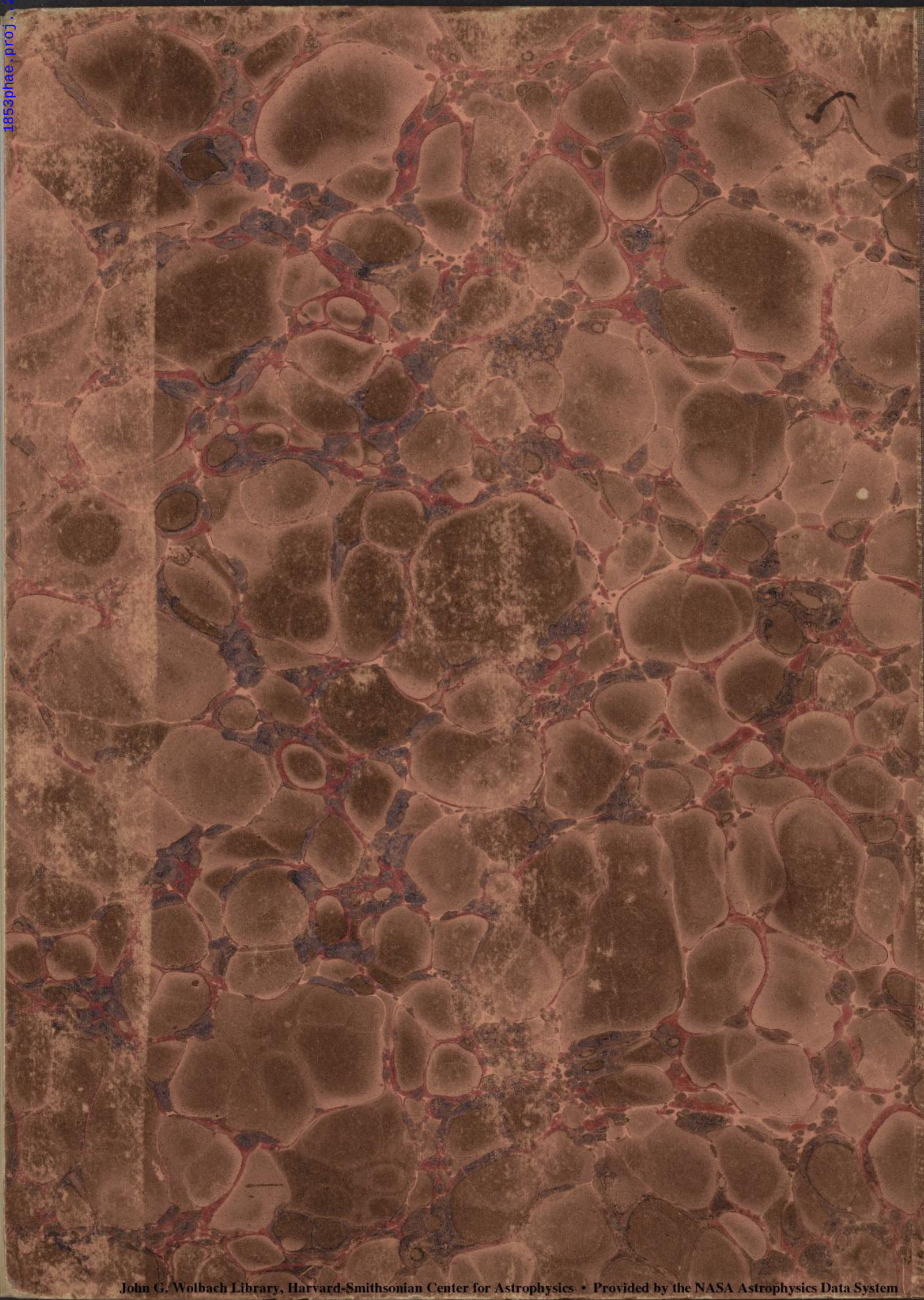
Zone 34

α 2h 42m 05s Ch
Δ +0° 18' 43"

" 35 is 34 Repeated "

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