

KG
11365
219

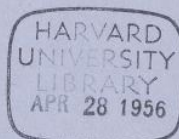
K.9

Lones No 9

May 31st to Sept. 8th
1853.

KG 11365.219

KG 11365.219



May 31st 1853

Zone 55 & 56

Passing 90° 01' - 01'
 used 90° 00'
 Very bad vision
 Zone 55

From 15° 00' 00" to 0° 00' 00"
 to June 1st to 0° 20'

Zone 55

Zone 56

15° 01' 8.40 12.40

1.20.3 24.2

2.04.2 8.0

2.19.2 23.3

B

3.22.2 26.0

3.34.6 38.6

4.14.4 18.4

5.00.9 4.9

5.28.6 32.5

6.39.0 43.0

7.39.1 43.2

8. 9.0 12.9

D

8.53.5 57.5

10.58.9 30.0

11.02.95

11.14.5 18.6

12.31.7 35.6

12.36.5 40.4

BB

13. 1.8 5.9

13.30.8 39.8

15.14.7 18.2

15.20.5 24.5

DD

15.56.2 00.0

16. 5.3 9.2

BB

17.04.2 8.2

15° 1.08.7 12.6

1.20.5 24.6

2. 4.3 8.4

2.19.4 23.4

BB

3.22.3 26.4

3.34.8 38.8

4.14.6 18.6

5. 1.0 5.0

6.28.9 32.8

6.39.2 43.1

7.39.3 43.3

8. 9.1 13.1

B

8.53.6 57.5

10.59.0 2.9

11.14.8 18.7

12.31.8 35.8

12.36.6 40.6

D

13.14.5 5.9

13.30.8 34.8

15.14.5 18.4

15.20.2 24.4

BB

15.56.2 00.1

16. 5.2 9.3

D

17.04.5 8.4

55

Lom 56 June 1st 1853May 31st 1853R 15^h 02^m 0^s 10' to 0^s 20'E.C. 13^h 59^m 00^s Bar. 30.300 alt. 65 Est 48.7
30.305 63 45.0E.C. 14^h 06^m 00^s Bar. 30.370 Gr Est 49.0
16^h 10^m 00^s 30.341 67 45.5

7 12 3^h 17^m
 11 12 7^h 23^m
 12 9^h 11^m
 13 0^h 24^m

B

12 5^h 19^m
 12 9^h 48^m
 11 12 4^h 54^m
 8 0^h 31^m
 12 4^h 21^m
 10 11 0^h 39^m
 12 4^h 26^m
 13 -0^h 30^m

D

12 6^h 19^m
 12 10^h 09^m
 12 4^h 49^m
 10 2^h 04^m
 10 9^h 02^m

B.B.

11 1^h 13^m
 9 8^h 11^m
 12 10^h 41^m
 12 1^h 33^m

D.D.

12 2^h 33^m
 10 5^h 19^m

B.B.

12 0^h 10^mR 15^h 01^m 14^s
13^h 14^m

mag.

12 3^h 17^m
 12 7^h 23^m
 13 9^h 11^m
 13 0^h 25^m
 B.B.
 12 5^h 18^m
 12 9^h 46^m
 11 12 4^h 54^m
 8 0^h 29^m
 12 4^h 21^m
 11 0^h 38^m
 12 4^h 26^m
 x 13 -0^h 30^m

B

12 6^h 18^m
 x 12 10^h 02^m
 12 4^h 50^m
 10 11 2^h 13^m
 10 11 9^h 00^m

D

11 1^h 13^m
 10 8^h 11^m
 13 10^h 40^m
 13 1^h 33^m

B.B.

12 13 2^h 32^m
 10 5^h 19^m

D

13 0^h 10^m

cent

art

ms

ms

55

17. 12.2 16.3

16 17. 58.4 12.3

18. 48.2 22.2

18. 44.9 49.2

19. 2.9 46.9

19. 4.3 4.3

B

21. 27.4 31.3

21. 33.3 39.4

22. 49.7 53.8

24. 14.3 18.2

25. 1.1 5.1

25. 10.1 13.9

26. 25.0 29.0

26. 58.7 2.6

27. 53.7 57.6

28. 6.2 10.0

D S

29. 12.0 16.0

29. 41.7 45.7

30. 58.1 2.2

31. 26.8 30.8

= 31. 54.6 58.6

33. 17.7 21.7

B

36. 00.7 4.7

36. 24.7 28.8

37. 6.2 10.2

37. 41.5 45.3

39. 43.4 47.4

40. 43.3 47.5

B B D

42. 25.6 29.3

42. — 34.7

42. 54.3 58.2

56

15 ~~17. 58.4 2.3~~

17. 58.4 2.3

18. 18.3 22.2

18. 45.1 49.1

19. 3.1 7.1

19. 4.5 8.4

D S

21. 27.7 31.6

21. 33.6 39.6

22. 49.8 53.9

24. 14.5 18.5

25. 1.3 5.2

25. 10.2 14.1

26. 25.1 29.1

26. 58.7 2.7

27. 53.9 57.8

28. 6.0 10.0

B

29. 12.1 16.1

29. 41.9 45.9

30. 58.4 2.4

31. 27.6 30.9

= 31. 54.7 58.8

33. 17.9 21.9

D

36. 00.7 4.7

36. 24.8 28.8

37. 6.2 10.2

37. 41.5 45.6

39. 43.4 47.4

40. 43.5 47.4

B B D

42. 25.7 29.7

42. 30.7 34.7

42. 54.4 58.4

55

56

No R.

13 0.09
 12 1.57
 11 4.12
 12 1.02
 12 0.09
 12 8.30

B

12 10.10
 12 9.20
 13 3.00
 10 9.10
 10 0.06
 12 9.44
 12 5.29
 12 2.36
 12 7.09
 12.13 6.59

DD

10 4.13
 9 9.37
 12 0.59
 8 0.30

~~12 1.31~~

= 12 1.31
 = 12 2.41

B

12 5.48
 12 3.10
 12 4.12
 12 - 0.08
 8 1.25
 11.12 3.01

B B B

10 2.58
 11 8.12
 12 4.52

Very Bad vis.

.13 0.09
 .13 1.57
 .12 4.11
 .12 1.01
 .12 0.08
 ns .12 8.30

DD

+ .13 10.10
 .12 9.19
 .13 3.00
 .10 9.09
 .10 0.05
 .12 9.43
 .13 5.28
 .12 2.36
 .12 7.09
 .13 6.56

B

.10 4.14
 .9.10 9.37
 .12 1.00
 .8 0.30

lost

.12 1.30
 .12 2.41

D

.12 5.47
 12.13 3.10
 .12 4.12
 x 12 - 0.04
 .8 1.26
 .12 3.00

D B D

.10 2.57
 .12 8.10
 .12 4.51

1st lost1st lost

55

15^h 43.12.2 16.0
 45. 44.5 48.6
 46. 34.6 38.7
 46. 50.9 54.3

B

47. 37.1 41.0
 47 — 44.9
 50. 04.8 8.7

D

52. 08.9 12.8
 52. 44.9 48.9
 53. 49.5 53.5
 54. 35.9 39.9
 57. 39.8 43.8
 58. 44.9 48.9

BB

59. 30.9 34.8
 15. 59. 39.6 43.5
 16. 00. 10.6 14.7
 0. 40.8 44.8
 1. 34.7 38.4
 2. 8.1 11.8

B

2. 52.3 56.3
 4. 14.7 18.6
 4. 24.9 28.8
 4. 33.9 37.9

D

6. 11.1 14.7
 6. 39.5 43.3
 6. 58.8 2.6
 8. 52.4 56.3

BB

10. 32.9 36.9
 11. 24.6 28.7
 12. 30.6 34.5
 13. 07.6 11.6

56

15^h 43.12.3 16.3
 45. 44.8 48.8
 46. 34.7 38.6
 46. 50.6 54.4

47. 37.2 41.1
 47 — 44.9
 50 4.8 8.8

B

52. 09.0 12.9
 52. 44.9 48.9
 53. 49.6 53.5
 54. 35.9 40.0
 57. 39.8 43.7
 58. 45.0 49.0

DD

59. 30.9 34.9
 15. 59. 39.6 43.6
 16. 00. 10.7 14.7
 0. 41.0 45.0
 1. 34.7 38.8
 2. 8.0 12.0

D

2. 52.3 56.2
 4. 14.8 18.7
 4. 24.8 28.8
 4. 33.9 37.9

B

6. 11.2 15.2
 6. 39.5 43.5
 6. 58.8 2.7
 8. 52.4 56.3
 8. 52.4 56.3

BB

10. 33.2 37.2
 11. 24.9 28.9
 12. 30.6 34.6
 13. 07.8 11.8

55

56

10 8.55

12 2.47

12 1.30

13 8.20

B

11 10.09

11.12 5.56

9.10 10.18

D

12 6.37

12 2.09

12 0.50

12 8.31

10 8.02

9.10 2.21

B B

12 1.13

12 7.53

12 -0.14

12 5.21

12 6.14

13 9.25

B

12 2.41

10 7.28

10 2.22

9 6.23

D

12 3.44

10 4.20

12 7.59

12 0.03

B B

12 -0.28

12 2.57

12 0.40

13 2.00

.11 8.50

.11 2.46

.13 1.30

.13 8.20

~~B~~

.11 9.59

.11.12 5.57

.9 10.17

B

.12 6.36

.13 2.06

.12 0.53

.13 8.30

.10 8.00

.9 2.23

D D

.12 1.13

.13 7.52

x 12 -0.14

.12 5.21

.12 6.13

.13 9.20

D

.12 2.41

.11 7.28

.10.11 2.21

.9 6.22

B

.12 3.40

.11 4.20

.12 7.51 -0.01

.12 0.03

D B

x 12 -0.28

.11 2.56

.12 0.40

.13 1.59

cent

cent-
1st wire lost

cent

cent

55

16.13.37.9 41.8
 16.01.6 5.4
 15.29.5 33.6
 D

17.18.7 22.7

18.37.6 41.4

B.B

19.53.9 57.8

20.48.6 52.5

22.24.4 28.3

22.33.1 37.1

23. 4.2 8.0

24.14.1 18.1

24.21.0 24.9

D.B.D

25.19.9 23.9

25.33.8 37.8

26.17.0 21.0

27.45.9 49.7

29.38.4 42.5

B

33.39.6 43.4

5. 2.4 6.6

35.39.3 43.1

35 53.7 ^{doubtful}

35 — 58.2

37.22.3 26.4

38.27.7 31.7

D

40.20.1 24.0

41.12.6 16.6

41.32.9 36.9

41.45.3 49.2

2 sheet fell back 3 (about)

B.B

47.47.0 51.0 47.50.0 54.0

66

16 13 37.9 41.9
 13 54.9 58.9
 15 01.4 5.5
 15.29.6 33.6
 B

18.37.7 41.7
D

20.48.7 52.7

22.24.5 28.3

22.33.3 37.3

23. 4.1 7.9

24.14.2 18.2

24.20.9 24.9

B.D

25.19.9 23.8

25.33.7 37.7

26.17.0 21.0

27.45.6 49.8

28.14.8 18.8

29.38.8 42.5

D

35.02.6 6.6

35.39.3 43.3

37.22.5 26.4

38.27.7 31.7

B

40.20.1 23.9

41.12.4 16.3

41.32.9 36.9

41.45.2 49.2

16.45.30.7 334.6

D.B

47.49.9 53.9

55

56

$$\begin{array}{r} 12 \quad 4.00 \\ 12 \quad 3.09 \\ \hline 11 \quad 1.33 \end{array}$$

D

$$12.13 \quad 7.47$$

$$12 \quad 4.29$$

B B

$$11 \quad 9.24$$

$$12.13 \quad 7.33$$

$$8 \quad 2.05$$

$$11 \quad 4.13$$

$$9 \quad 0.15$$

$$9 \quad 6.43$$

$$12 \quad 6.50$$

D B D

$$12 \quad 8.08$$

$$11.12 \quad 8.46$$

$$11 \quad 8.50$$

$$10 \quad 4.26$$

$$10 \quad 5.29$$

B

$$12 \quad 0.48$$

$$x \quad 11 \quad 9.13$$

$$11 \quad 2.27$$

$$12 \quad 2.37$$

$$12 \quad 2.56$$

$$13 \quad 1.50$$

$$11 \quad 4.27$$

D

$$12 \quad 5.05$$

$$10 \quad 5.13$$

$$9 \quad 5.48$$

$$9 \quad 1.05$$

$$9 \quad 7.03$$

B B

$$9.10 \quad 10.08$$

$$\begin{array}{r} 12 \quad 3.59 \\ 13 \quad 3.09 \\ \hline 11 \quad 1.34 \end{array}$$

B

$$12 \quad 4.29$$

D

$$11 \quad 9.20$$

$$12.13 \quad 7.31$$

$$8 \quad 2.03$$

$$12 \quad 4.13$$

$$10 \quad 0.16$$

$$9 \quad 6.40$$

$$12 \quad 6.47$$

B D

$$13 \quad 8.02$$

$$12 \quad 8.41$$

$$11 \quad 8.47$$

$$10 \quad 4.25$$

$$12.13 \quad 6.30$$

$$10 \quad 5.29$$

$$11 \quad 9.12$$

$$11 \quad 9.12$$

$$10.11 \quad 2.24$$

$$12 \quad 1.50$$

$$11 \quad 4.26$$

B

$$12 \quad 5.04$$

$$11 \quad 5.12$$

$$10 \quad 5.47$$

$$9 \quad 1.05$$

$$8 \quad 7.01$$

D D

$$x \quad 9.10 \quad 10.08$$

* This star by comparison with
Mira - Lenticular & Salade has a
rather rather proper motion in
Declination of -1.60
reddish
R lost

MS.

ms

comp 13^m 13^s 5. p.

End of Book

1st time lostreddish
R lost

16..49.. XXS	5X2	16..49..50.3	54.2
5X XX	XX	50..13.1	17.2
5X XX	2X 5	51..27.6	31.6
5X XX 5	XX	52..00.3	4.3
B			
5X 5XX	XX	53..00.1	4.0
5X 36 2	XX 3	53..39.3	43.3
5X 20 XX	XX 9	54..23.7	27.7
5X 33 A	XX X	4..35.9	39.8
5X 5X B	XX	63..00.4	4.2
5X 18 9	2X 0	56..20.9	24.9

16..49..50.1	54.1
50..13.2	17.1
51..27.7	31.6
52..00.3	4.4
D 58	
16..53..00.1	4.4.1
53..39.3	43.2
54..23.8	27.8
54..35.9	39.9
55..00.3	4.2
56..21.3	25.2
58..14.3	18.3

55

11 5.03
 11 7.33
 12 2.26
 12 10.06

B

φ 13 1.33
 13 2.57
 12 2.11
 12 5.18
 12 4.54
 12/3 8.38
 11 2.23

1.11

1.51

56

11.12 5.02
 .12 7.32
 .12 2.23
 * 12 10.00

B

φ 13 1.32
 13 2.56
 12 2.10
 12 5.18
 12 4.54
 12 8.38
 12 2.25

φ

Zone 57
June 6th 1853-

10⁶ 20

58

Begin R 17^h Dec 10⁶ 20
to
join at end of 55 & 56

57

16..53..00.3 4.3
3..39.3 43.3
54..23.9 27.9
54..36.1 39.9
B
55..00.3 4.3
55..21.4 25.3
16..58..14.5 18.4
D
17..00..49.5 53.5
0 55.8 59.7
1..12.7 16.7
2..52.8 56.8
4..31.7 35.5
4..46.2 50.0
BB
5..40.0 43.9
5..50.6 54.7
6..53.3 57.2
9..43.7 47.7
9..48.8 52.8
D
14..41.4 45.4
15..17.8 21.7
15..32.6 36.6
16..52.1 56.1

1st = ϕ of 55 & 56

58

16..52..59.8 cin. broken
53..38.7 42.8
54..23.2 27.2
54..35.4 39.4
D
54..59.8 4.0
55..20.8 24.8
16..58..13.9 17.9
B
17..00..48.9 52.9
~~1..11.9~~ 15.9
1..11.9 15.9
2..52.8 56.3
4..30.9 39.9
4..45.5 49.6
DD
5..39.3 43.3
5..50.0 54.0
6..52.6 56.6
9..43.1 47.1
9..48.2 52.8
B
14..40.9 44.8
15..17.0 21.1
16..51.4 55.3

Zone 57 10' to 20'
Height - put on Dec. axis

E.L. 15.25.00 Bor. 30.040 69° Est. 54.5
17.08.00 30.012 68 53.4

Zone 58 10' to 20'
June 6th

E.L. 15.23.00 Bor. 30.190 68 54.9
17.10.00 30.210 68 50.0

57

13 1.23
12 2.46
12 2.01
12 5.08

B

11/12 4.44
13 8.27
11 2.13

D

12 0.14
12 8.03
10/11 3.38
12 3.12
12 4.09
12 3.16

B B

11 8.17
11 4.05
12/13 6.21
10/11 3.37
10.11 0.16

D

12 6.02
12 9.13
12 10.36
12 9.49

57

13 1.40
12 3.04
12 2.17
11/12 5.24

D

12 5.01
13 8.45
11 2.32

B

12 0.22

est

x 11 3.56
13 3.29
12/13 4.26
13 3.33

D D

11 8.34
12 4.23
12/13 6.39
10 3.53
10.11 0.31

B

13 6.19
12 9.31

x 12 10.08

ms

57

17, 17.34.6 38.6

17, 17.52.2 56.2

DB

12 18, 58.4 2.3

13 19, 17.9 11.9

12 20, 6.9 10.9

12 20, 21.7 25.8

12 21, 13.0 17.1

10 21, 34.2 38.2

22, 38.8 42.8

BB

26, 42.3 46.3

26, 20.8 24.7

26, 21.7 25.7

26, 49.0 53.0

27, 49.5 51.7

28, 7.9 11.8

28, 18.0 21.9

28, 31.7 35.6

B

28, 58.3 2.3

30, 21.0 25.0

31, 47.7 51.7

32, 2.4 6.4

32, 59.3 3.3

33, 22.7 26.7

35, 10.2 14.1

35, 33.9 37.9

36, 6.0 10.1

DB

39, 24.0 28.0

40, 21.9 25.9

40, 36.5 40.4

41, 18.6 22.6

44, 29.3 33.3

45, 00.7 4.5

45, 17.2 21.0

46, 23.7 27.8

58

17, 17.34.0 38.0

BB

18 57.6 1.7

20 — 10.1

21, 12.4 16.4

21, 33.8 37.7

22, 38.1 42.1

B

24, 22.0 25.9

25, 41.7 45.7

26, 20.2 24.1

26, 21.1 25.1

26, 4 ^{acc. break} 52.3

28 — 11.1

28, 30.8 34.9

D

28, 57.7 1.6

30, 20.5 24.3

31, 47.0 51.1

32, 1.7 5.8

32, 58.7 2.7

33, 22.1 26.9

35, 9.7 13.5

35, 33.1 37.2

36, 5.4 9.4

BD

39, 23.2 27.2

40, 21.1 25.1

~~41, 17.8 21.8~~

41, 17.8 21.8

accidental break

46, 23.0 27.0

57

10.11 8.59
12.13 8.29

DB

12 2.06
13 1.06
12 3.46
12 6.05
12 10.17
12 -0.07
10 1.17

DBB

9 2.37
11.12 2.48
11.12 5.51
12.13 -0.08
12 10.36
12 9.23
12 1.05
12 8.16

B

12 7.30
11 2.54
11 9.46
13 9.01
12 7.58
11.12 2.57
11 8.24
12 1.55
11 6.05

DB

12 5.08
12.13 9.43
12.13 7.50
12 9.37
12.13 8.16
13 10.29
11 8.03
11.12 1.57

10 9.17

DB

12 2.16

12 4.02
12 6.23
12 10.33
10.11 0.11
10 1.36

B

yellow

8 -0.26
9 2.57
12 3.07
12 6.08
13 0.11

and

12 9.42

11.12 8.33

B

12 7.46
11.12 3.02
12 10.03
13 9.20
12 8.15
11 3.14
11 8.42
12 2.12
11 6.23

BD

12 5.24
13 10.01
12.13 8.09
11.12 9.53
12.13 8.34

11 8.20

11.12 2.15

58

Wiper R is 2.5 too large

1.111111
No H

-0.36 by zones 59 & 60

yellow

ms

twins

Na H

57

17.47.16.0 19.0

B D B

49.05.2 9.3

49.46.1 50.0

50.5.2 9.3

50.8.2 12.1

50.35.9 39.9

50.48.6 52.5

51.26.8 30.8

51.47.7 51.6

51.54.4 58.3

52.40.5 44.5

52.43.1 47.0

B

53.27.6 31.5

53.30.9 34.7

54.3.5 7.5

55.42.9 46.9

56.17.1 21.1

56.26.3 30.1

B B B

57.21.9 25.8

58.28.0 32.0

17.58.34.7 38.7

18.00.22.6 26.6

~~00.45.2 45.2~~~~00.48.8 48.8~~

D

2.08.6 12.6

3.55.7 59.7

3.59.0 2.9

4.22.2 26.1

6.26.3 30.4

6.54.1 58.1

7.13.6 17.5

7.56.8 0.9

8.17.6 21.8

~~8.28.2 32.2~~18.00. ~~lost~~ 48.8 by a new reading

18.00.46.2 lost

58

17.47.14.4 18.5

B

49.04.5 8.6

49.45.2 49.2

50.07.6 11.9

50.35.1 39.1

50.1 57.9

51.26.1 30.1

51. 51.3 doubt

5

52.39.9 43.9

53.27.0 31.0

B

54.02.7 6.9

56.16.6 20.5

B

57.21.2 25.1
~~57.21.2 25.1~~

17.58.34.0 38.0

18.00.22.0 26.0

0.44.0 48.1

0.44.6 48.6

B B

2.7.9 11.9

3.55.0 59.0

3 — 2.1

6.25.8 29.8

6.53.4 57.4

7.13.0 16.8

7.56.2 0.9

8.

} certain

57

58

12 1.06
B D B

12 7.39

10 3.03

12 10.14

11 6.56

12 2.24

12 1.36

11 4.29

13 10.13

12 5.04

9 0.53

13 1.53

B

12 8.28

12 9.03

12 2.00

12 8.07

12 7.15

12 0.30

B B B

11.12 4.58

13 9.42

12 7.38

12 10.16

12 5.34

12 2.48

D

13 8.45

12 1.04

11 8.04

12 0.23

11 -0.18

12 2.22

12 9.49

9 10.00

12 4.40

+10"

x

.12 1.26

B

.11 7.56

.10 3.19

~~11.11~~

.11 7.13

.12 2.43

.12 1.53

.11.12 4.47

x 12 10.30

.9 1.11

4 m. p.

comp. of 14 m. p.

ms

~~12 8.46~~

.12 8.46

13 ~~2.18~~

13 2.18

.12 8.08

B

.11.12 5.14

.12 7.54

.13 10.33

.12 5.48

.12 3.07

B B

.13 9.01

.12 1.23

.11 8.23

~~11 0.00~~

11 0.00

12 2.40

12 10.08

9.10

0.18

2 agree with
Runkler & Tripe lists
of these declinations are
to be increased
by 10"

1 m. p. lost

1 m. p. lost
2 m. p. lost

57

8,, 28.2	32.2
8,, 09.39.9	43.9
10,, 34.3	38.3
11,, 09.5	13.6
12,, 7.2	11.2
12,, 12.2	16.2
12,, 17.9	21.9

B

14,, 53.5	67.5
15,, 54.0	58.0
15,, 59.0	3.0
18,, 34.3	38.3

DDB

19,, 58.5	—
20,, 13.2	17.1
21,, 20.7	24.7
21,, 42.3	46.2
22,, 10.3	14.3
23,, 3.0	6.9
23 21.4	25.2
23,, 44.1	48.2
25,, 31.9	35.9

58

9,, 39.2	43.3
9,, 39.2	43.3
10,, 33.9	37.8
11,, 9.0	13.0
12,, 6.6	10.6
12,, 11.7	15.6

BBB

14,, 52.7	66.7
15,, 53.3	37.3
15,, 58.4	2.2
18,, 33.6	37.6

20,, 12.4	16.4
21,, 20.0	24.0
21,, 41.5	45.5
22,, 9.6	13.6
23,, 2.2	6.2
23,, 20.6	24.7
23,, 43.3	47.4
25,, 31.3	35.2

57
 12 0.46
 12 5.51
 12 1.07
 11.12 6.30
 12 3.02
 13 1.19
 12 9.59
 B
 11 3.02
 9 6.17
 12 6.51
 12 10.01
 DDB
 12 10.44
 12.13 1.51
 12 0.30
 9 3.54
 10.11 3.01
 9.10 7.02
 9.10 9.53
 11 5.18
 11.12 8.41

the two last marks right

ns

2 in lost

58

12 6.08
 13 1.25
 12 6.47
 12 3.48
 12 1.35

ns

B B

12 3.19
 9 6.34
 13 7.08
 12 10.18

ns

13 2.08
 12 0.48
 9 4.10
 10 3.17
 9 7.16
 10 10.09
 12 5.36
 11 8.58

Wone 69

July 2nd Wone 600.6 to 10^{hr}

15..51..20.9 24.9 51..24.90
 51..55.7 59.7 51..59.70
 52..20.3 24.3 52..24.30
 52..30.2 34.2 52..34.20
 54.. 9.9 13.8 54..13.85
 55.. 7.2 11.2 55..11.20

D

56..52.0 55.9 56..66.95
 58..29.9 33.9 58..33.90
 58..37.8 41.8 58..41.80

B

16..00..40.9 44.8 00..44.85
 3..23.1 27.1 3..27.10
 4.. 6.2 10.2 4..10.20
 5..39.7 43.7 5..43.70

DB

6..19.6 23.6 6..23.60
 7..19.9 24.0 7..23.95
 8..09.2 13.1 8..13.15
 8..52.8 56.7 8..56.75
 10..00.0 4.0 10..04.00

D

10..33.4 37.4 10..37.40
 10..40.0 44.0 10..44.00
 11..57.9 1.8 11..1.85
 12..10.9 14.8 12..14.85
 13..21.8 25.8 13..25.80
 15..32.1 36.2 15..36.15

15..51..21.0.. 25.0

51..56.0 0.0

52..20.6 24.7

52..30.6 34.5

54..10.2 14.2

55.. 7.3 11.3

B

56..52.0 56.0

58..30.2 34.2

58..38.1 42.1

DD

16..00..41.1 45.0

3..23.2 27.3

4.. 6.4 10.5

BD

6..19.8 23.8

7..20.1 24.1

8.. 9.4 13.4

8..53.0 56.9

10..00.2 4.2

B

10..33.6 37.4

10..40.2 44.2

11..58.0 2.1

12..11.0 15.0

13..21.9 25.9

15..32.5 36.5

K of 2 52

1853

July 1st Pm. clear with strong breezeZero of Position $89^{\circ} 58'$

Height applied to dec. axis

E.C. 16.05.30 Bar. 29.900 75° 72.0

18.38.00 29.930 75° 68.5

Zones 59 60

July 2 Pm calm - clear

Height applied to dec. axis

E.C. 16.39.00 Bar. 30.070 Alt. 72° Ext. 66.8

18.14.00 30.100 71 " 60.0

11 3.06

12 5.26

12.13 5.49

12 6.21

12 2.45

9 -0.06

D

11 7.31

12 8.00

9 2.05

B

12 5.12

10.11 7.39

12 6.54

12 2.09

D B

12 4.35

9 6.47

12 9.57

x 12 10.03

11 8.36

D

12 9.30

12.13 7.04

12 0.56

12 3.19

13 4.58

9 5.06

12 3.07

12 5.27

13 5.50

13 6.22

13 2.46

* 9 -0.04

B

11.12 7.33

12 8.01

yellowish. 9 2.06

D

12 5.13

12 7.40

12 6.54

B D

12 4.36

9.10 6.50

12 9.59

x 13 10.04

11 8.37

B

12 9.31

13 7.05

13 0.57

12 3.20

12 4.59

9 5.07

59

16..48.8 52.8 16..52.80
 17..54.6 58.6 17..58.60
 18..45.6 49.8 18..49.70

B

23..4.6 8.4 23..08.50
 23..37.9 41.9 23..41.90
 23..51.1 54.9 23..59.00
 24..11.2 15.3 24..15.25

D

26..01.1 5.0 26..05.05
 26..35.5 39.4 26..39.45
 29..19.5 23.5 29..23.50
 30..19.8 23.9 30..23.85
 31..15.8 19.8 31..19.80

B B

33..06.9 10.8 33..10.85
 33..7.2 11.2 33..11.20
 35..18.4 22.2 35..22.30
 36..38.0 41.9 36..41.95
 39..4.8 8.8 39..8.80

B D

39..46.9 50.9 39..50.90
 40..25.4 29.4 40..29.40
 41..7.4 11.5 41..11.45
 41..55.1 59.0 41..59.05
 42..16.9 20.9 42..20.90

B

43..01.5 5.5 43..05.50
 43..6.1 10.0 43..10.05
 43..40.1 44.2 43..44.15
 43..57.1 1.1 44..1.10
 45..20.7 24.6 45..24.65

D

46..51.8 55.8 46..55.80
 48..7.6 11.6 48..11.60
 48..39.1 43.1 48..43.10
 50..57.9 2.1 50..2.00
 51..43.0 47.1 51..47.05

60

16..49.1 53.0
 17..54.8 58.7
 18..45.8 49.8

D

23..04.7 8.7
 23..38.1 42.1
 23..51.2 55.2
 24..11.7 15.7

B B

26..01.2 5.2
 26..35.6 39.6

30..19.9 23.9
 31..15.9 19.9

D

33..06.9 10.8
 33..7.3 11.3
 35..18.5 22.5
 36..38.2 42.2
 39..5.0 9.0

B B

39..47.0 51.0
 40..25.7 29.7
 41..7.7 11.6
 41..55.3 59.3
 42..17.1 21.1

D

43..01.7 5.7
 43..6.3 10.3
 43..40.2 44.3
 43..57.3 1.3
 45..20.9 24.9

B

46..51.9 55.9
 48..7.9 11.9
 48..39.5 43.4
 50..58.2 2.3
 51..43.4 47.3

Wone 59

60

reddish

. 10 8.48
 . 12 8.37
 . 11 7.04

B

x 9.10 10.13
 . 13 3.38
 . 12 4.09
 . 12 4.23

D

. 11 7.41
 . 12 4.15
 . 12 1.54
 . 13 4.28
 . 12 3.03

B B

. 12 8.25
 . 10 8.16
 . 12 0.52
 . 11 3.02
 . 12 8.14

B B

. 11 4.00
 . 13 7.55
 . 11 5.37
 . 13 9.24
 . 13 2.37

B

. 12.13 5.13
 . 12 1.34
 . 12.13 3.25
 . 13 7.19
 . 11 6.21

D

. 13 9.15
 . 12 9.16
 . 12 6.28
 . 13 8.30
 . 13 5.48

reddish 10. 8.51
 12. 8.38
 11. 7.06

D

No stars q. than 14 m

x 9.10 x 10.16 x this star is in a remarkable occurrence
 13. 3.39 *triple is too small*

12.13 4.10
 12.13 4.24
 B B

11.12 7.42

{ Group of
 13 mag. x³

12. 4.16
 13.
 13. 4.24
 12. 3.04

D

double - 12. 8.22
 comp. 12^m 10^m 11.

8.18
 12. 0.54
 11. 3.09
 13. 8.16

B B

12. 4.02
 13. 7.56
 11.12. 5.38
 13. 9.26
 13. 2.39

D

12. 5.15
 12. 1.36
 12.13. 3.27
 13. 7.20
 12. 6.22

B

12. 9.16
 12. 9.17
 12. 6.30
 13. 8.32
 13. 5.49

duplex
 companion



ms

59

16.53.11.7 15.7 53.15.70

55.02.6 6.6 55.06.60

56. 6.1 10.2 56. 10.15

B.D.B.

58.38.9 42.9 58. 42.90

59.31.4 35.4 16.59.35.40

17. 00.20.7 24.7 17 00.24.70

0.49.8 53.8 0. 53.80

1. 53.3 57.3 1. 57.30

2. 08.6 12.4 2. 12.50.60

3. 39.6 43.6 3. 43.65

4. 17.2 21.2 4. 21.20

B B

5. 27.4 31.6 5. 31.45

6. 9.2 13.2 8. 13.20

8. 26.3 29.2 8. 29.25

9. 49.2 53.1 9. 53.15

9. — 57.3 9. 57.30

10. 21.0 24.9 10. 24.95

10. 30.1 33.9 10. 34.00

D

11. 46.8 50.8 11. 50.80

11. 53.7 57.7 11. 57.70

15. 38.1 42.0 15. 42.05

16. 04.2 8.0 16. 8.10

B

18. 57.9 1.9 19. 1.90

19. 21.0 25.1 19. 25.05

20. 15.0 18.9 20. 18.95

21. 34.8 38.8 21. 38.80

21. 41.9 45.9 21. 45.90

D D

22. 31.2 35.2 22. 35.20

24. 1.7 5.7 24. 5.70

24. 23.0 26.9 24. 26.95

B B B

25. 11.2 15.1 25. 15.15

60

16.53.12.0 15.9

55. 2.9 6.8

56. 6.5 10.6

D

58.39.2 43.2

16.59.31.7 35.7

17. 00.20.8 24.9

0. 50.0 54.0

1. 53.5 57.5

2. 8.8 12.8

3. 06.1 10.2

3. 34.9 43.8

4. 17.6 21.6

B

5. 27.7 31.7

8. 9.5 13.5

8. 25.6 29.5

9. 49.3 53.3

10. 20.9 25.0

10. 30.2 34.2

B B

11. 46.9 50.9

11. 53.9 57.9

15. 38.2 42.2

16. 4.1 8.2

D

18. 58.1 2.1

19. 21.3 25.3

20. 15.1 19.1

21. 34.8 38.8

21. 42.1 46.2

B

22. 31.3 35.4

24. 1.8 5.8

24. 23.1 27.1

D D

25. 11.3 15.4

11 0.24
 Region remarkably destitute of stars
 11.12 1.23
 7 4.00
 8 B D B
 11 7.52
 11 1.34
 11 5.33
 x 12 10.13
 11 1.39
 9 8.50
 12 4.39
 12 B 6.53
 B B
 x 11 -0.08
 x 13 10.23
 13 8.21
 x 11 10.23
 12 8.24
 12 6.34
 10.11 7.17
 D
 10.11 4.58
 11 2.20
 12 5.30
 12 2.31
 B
 11 1.13
 12 8.11
 x 12 -0.02
 x 10 10.03
 10 3.25
 D D
 12 8.56
 12 2.03
 6 5.22
 B D B
 11.12 6.32

white

1st break night

? 2 min 0.2 early

1st min lost

11 0.31
 12 1.24
 7.8 4.01
 D doubt
 11 7.51
 12 1.36
 11 5.35
 12 x 10.15
 11 1.42
 9 8.51
 12 4.40
 13 6.53
 13 6.55
 11 x -0.06
 13 x 10.25
 13 8.25
 11 x 10.26
 12 6.37
 11.12 7.19
 B B
 10.11 4.58
 11 2.24
 12 5.31
 12 2.34
 D
 11 1.15
 12 8.13
 12 0.01
 9.10 x 10.08
 10 3.26
 B
 12 8.57
 12 2.04
 7 9.25
 D D
 12 6.34

23.065
 1.52
 1.67.49
 2.2.49
 2.2.49
 17.02.11.02
 11.30
 12.20
 by Salade
 by Muff
 by our zone
 {ripe, R is 1' smaller but it was
 observed in two cones 88 & 95 a
 proper motion of 4.027 is
 probable But it is
 different only by 0.27 - right
 direction

59

17.25.41.1 45.1 25.45.10
 26.55.3 — 26.59.30
 26.58.7 — 27.2.80
 27.11.1 16.0 27.15.05
 B
 28.46.2 50.2 28.50.20

29.40.7 44.7 29.44.70
 30.8.7 — 30.12.70
 30.11.6 15.6 30.15.60
 31.2.8 6.9 31.6.85
 31.19.1 23.1 31.23.10
 D

31.50.3 54.6 31.54.45
 32.11.0 15.1 32.15.05
 33.11.7 15.7 33.15.70

B

33.55.2 59.2 33.59.20
 37.54.8 58.8 37.58.80
 40.25.7 29.7 40.29.80
 41.32.7 36.7 41.36.80
 41.35.4 39.3 41.39.35

DB

45.16.9 19.8 45.19.85
 46.19.0 23.0 46.23.00
 48.5.6 9.6 48.9.60
 48.36.2 40.2 48.40.20
 49.28.3 32.4 49.32.35

B

51.36.9 40.9 51.40.90
 51.55.9 59.8 51.59.85
 52.52.1 56.0 52.56.05
 53.13.9 17.8 53.17.85

D

53.53.8 59.8 53.59.80
 54.34.5 38.5 54.38.50
 54.40.6 44.6 54.44.60

60

17.25.41.4 45.4
 26.55.8 59.6
 26.58.9 2.9
 27.11.3 16.3
 D
 28.46.7 50.5

29.40.9 44.9
 30.8.9 12.8
 30.12.0 15.9
 31. ~~break~~ 7.0
 31.19.3 23.3

B

31.50.7 54.7
 32.11.5 15.5
 33.12.0 16.0
 33.31.7 35.7

DD

33.55.8 59.5
 37.54.9 58.9
~~41.33.0 36.9~~
 41.33.0 36.9
 41.35.8 39.8

DBD

49.28.8 32.7
 D

51.37.2 41.2
 51.56.2 0.1
 52.52.3 56.4
 53.14.1 18.1

B

53.56.0 0.0
 54.34.8 38.7
 54.40.8 44.9

189

60

11 9.20

12 7.39

12 0.19

9 6.06

B

11 5.47

Small stars becoming very numerous

12 3.54

12 6.42

11 1.33

11 3.39

12 5.51

D

12 8.22

11.12 0.27

10.11 6.46

12 4.10

B

10.11 7.39

10 8.19

12 4.39

11 2.27

12 8.24

D 10

Here a new sheet was put on

9.10 0.03

12 4.57

12 8.18

12 0.10

6.7 5.28

B

12 4.22

9.10 2.11

12 7.06

12 2.42

D

9 6.51

12 9.10

9 6.28

2nd wire lost2nd wire lost

comp. 15" 8" s. f.

11 9.21

11 7.42

11.12 0.22

9.10 6.07

D

11 5.49

12 3.57

2nd wire lost

11.12 6.45

10 1.35

11 3.41

12 5.54

B

12 8.25

11 0.29

11 6.49

12 4.13

D

10 7.39

10 6.23

12 4.

11 3.80

12 6.30

D

D B D some stars of 11 may. posed

along in direct. of R? double

7 5.30

D

12 4.26

10.12 2.14

12 7.09

12 2.44

B

9.10 6.53

12 9.13

9.10 6.32

59

17. 56. 12.0	16.1	56. 16.05
56. 41.3	45.4	56. 45.35
58. 7.6	11.6	58. 11.60
58. 19.7	23.7	58. 23.70
BB		
59. 27.5	31.4	59. 31.45
59. 53.1	57.0	59. 57.05
18. 00. 51.6	55.6	00. 55.60
0. 59.1	3.2	0. 3.15
1. 19.3	23.4	1. 23.35

D

1. 39.0	43.0	1. 43.00
4. 8.7	12.7	4. 12.80
4. 10.7	14.7	4. 14.70
4. 21.5	25.5	4. 25.50

BD

5. 14.2	18.2	5. 18.20
5. 42.8	46.8	5. 46.80
6. 18.6	22.3	6. 22.45
6. 25.9	29.8	6. 29.85
6. 46.0	49.9	6. 49.95
6. 58.2	2.2	7. 2.20

DD

7. 56.1	00.0	8. 00.05
8. 1.2	5.2	8. 5.20
8. 52.8	56.8	8. 56.80
9. 2.3	6.6	9. 6.45
9. 51.3	56.4	9. 55.35
11. 27.3	31.3	11. 31.30
12. 20.3	24.4	12. 24.35
14. 33.1	37.2	14. 37.15

B

60

17. 56. 12.5	16.4
56. 41.8	45.7
58. 7.8	11.9
58. 19.8	23.8

DD

59. 27.8	31.7
17. 59. 53.3	57.3
18. 00. 51.9	55.8
0. 59.5	3.5
1. 19.6	23.6

B

3. 54.0	58.1
4. 9.0	12.9
4. 11.0	14.9

DB

5. 14.4	18.4
5. 43.2	47.1
6. 18.7	22.7
6. 26.1	30.1
6. 46.0	4
6. 58.6	2.5

B

7. 56.6	0.6	8. 00.60
8. 1.7	5.7	
8. 53.0	57.0	
9. 3.0	7.0	
9. 51.7	55.6	
11. 27.8	31.8	
12. 20.8	24.8	
18. 14. 33.5	37.4	

59

12 7.03

12 0.38

13.12 4.30

12.13 5.35

BB

11 2.16

12 0.11

10.11 5.55

12 0.24

12 4.17

D

12 2.45

13 5.30

11 5.31

12 10.35

B D

12 9.08

12 0.05

10 3.22

10 9.51

12 5.00

8.9 8.21

DD

10 10.19

11 0.32

12 9.26

12 1.20

12 6.28

12 0.51

12 6.19

8 5.32

B

ms

ms

neel

60

12 7.06

12 0.42

13 4.32

13 5.36

DD

11 2.19

12 0.15

11 5.58

12 0.27

12 4.21

B

2.

13 5.34

10 5.36

D B

13 9.10

12 0.08

10 3.25

10 9.54

13 5.03

8.9 8.25

B

10 10.23

11 0.36

12 9.28

12 1.24

13 6.31

13 0.53

12 6.21

8 5.36

ms

ms

Zone 61

Zone 62

There is a vacancy unobserved from $AR\ 21^h 25^m$ 10' to 20'
to $21^h 39$ "

Between Zones 15-17 and 20-21 -

Commence with 182 of Zone 15 - $10^h 11^m$ mag-
1853.0 $AR\ 21^h 23^m 28.66$
 $Dec +0^{\circ} 14' 55''$

Start will read thus 4.55 $10^h 11^m$
 $AR\ 21^h 23^m 28.57$ $Dr. 8.58$ 12
24..10.8 4.34 13
25..32.8 10.05 9
27..54.0 9.31 7-8

$h = 2^h E$

Zone must run to $21^h 39^m$ at least where is a bright
star - $Dr. 10' 36''$ reading of scale is $0' 36''$

61

Sept 8th 1853

10' to 20'

21..23..24.7 28.7 23..28.70
24..06.1 9.9 24..10.00
24..6.8 10.8 24..10.80

ms

25..04.3 8.2 25..08.25
26..29.1 33.0 25..33.05
26..44.9 48.9 26..48.90
27..49.8 53.8 27..53.80
28..7.6 11.6 28..11.60

29..37.1 41.0 29..41.05
30..9.9 ~~13.0~~ 30..13.90
30..13.8 17.7 30..17.75
30..24.9 28.9 30..28.90
30..36.2 40.3 30..40.25
31..47.2 51.2 31..57.20

B B

33..14.8 18.9 33..18.85

62

Sept 8th 1853

21..23..24.9 28.9 21..23..28.90
24..6.0 10.0 24..10.00
24..7.0 10.9 24..10.95

B

25..04.2 8.2 25..08.20
25..29.0 33.1 25..33.05
26..46.0 49.0 26..49.00
27..50.0 54.0 27..54.00
28..7.7 11.7 28..11.70

D

29..37.3 41.3 29..41.30
30..14.0 14.0 30..14.0
30-- 17.8 30..17.80
30..26.3 29.3 30..29.30
30..36.5 40.3 30..40.40
31..47.4 51.1 31..51.25

D D

33..14.9 19.0 33..18.95

61 Observed both
Bar Est
EC 19^h 08^m 30.184-67 - 61.2
20^h 09 30.200 67 54.8

62
EC 19^h 0 Same as for 61

+10' # 4^h 56^m
11 4^h 58^m
12 6^h 59^m
13 4^h 34^m
12 4^h 34^m
12 4^h 24^m
10 - 0.04
12 + 2.23
7.8 9.35
12 10.14
10 4.28
12 8.35
10 1.05
11 5.27
11 7.38
12 3.40
B B
11 2.49

61
Clear & calm

Bad vision

10' to 20'

+10' 11 4.57
12 7.00
13 4.35
B
12 1.27
X 10 - 0.03
12 2.26
8 9.38
X 12 10.16

only small stars passing

2nd window
ms

10.11 4.30
12 8.38
11 1.07
12 5.28
12 7.40
12.13 3.44
D D
11 2.53

62

vision improving

1st - lost
1 min ms
of group

61

21 34.40.7 44.5 21.. 34..44.60
35.26.0 28.9 35..28.95

D.D.

36..42.5 46.3 36..46.40
36..57.1 55.0 36..58.05
39.01.6 5.7 39..05.65

✓ 39.19.2 23.3 21.. 39..23.25
40.41.5 45.4 40..45.45

B.D

42..31.6 35.5 42..35.55

44 — 5.7 44..05.70
44.42.8 46.7 44..46.85

B

45..47.7 51.8 45..57.75
46..53.3 57.4 — 21.. 45..57.35
46..54.7 58.6 46..58.65
47..8.9 12.9 47..12.90
49..36.9 40.9 49..40.90

62

21.34.40.7 44.7 21..34..44.70
35.25.1 29.1 35..29.10

B.B.

36..42.5 46.5 36..46.50
6 57.2 55.2 6..55.20
39..1.7 5.6 39..05.65

39.19.5 23.4 21.. 39..23.45
40.41.7 46.7 40..45.70

D.B

42..31.7 35.6 42..35.65

§ 42.57.9 1.9 43..01.90

44.01.8 5.9 44..05.85

44.42.9 46.8 44..46.85

D

45..47.9 51.9 45..57.90
45..53.6 57.6 21.. 45..57.60
46..54.7 58.6 46..58.60
47..9.0 12.9 47..12.95
49.37.2 41.1 49..41.15

For beginning of June 1862 see 15817
For the end of 1862 see 20821.

2, 61
10.11 0..27

12 2..42

DD

12 6..57

11 4..37

12 9..32

8 0..34

11 3..51

B.D.

11 6..56

~~12 4..18~~

9 0..00

12 1..33

B

12 9..35

12 4..34

11 7..40

11 3..10

10 9..49

rtwin best

ms

2 June 62

11 0..29

12 2..43

BB

12 6..59

~~11 4..40~~

12.13 9..36

8 0..39

12 3..56

DB

11 6..59

12 4..22

9 0..03

12-13 1..37

D

12 9..39

12 4..38

11.12 7..43

11 3..13

10 9..54

Vacuuming

ms

For June 63 on

June 12

Zone 56

11. 26 9.12
 11. 6 2.25
 12. e 2.52
 1943

16 14. 28.2 25.1
 14 58.1 1.9
 13.0 17.0

a star of 12.113 ⁵pd. b 3.0
 and is 11" south

$$\begin{array}{r} 14..18..52 \\ 2 \ 24 \\ \hline 16..40 \end{array}$$

$$\begin{array}{r} 14..22..30 \\ 2 \ 21 \ 20 \\ \hline 16..44 \end{array}$$

$$\begin{array}{r} 16 \ 45 \\ 15..10 - \\ \hline 1..35 \end{array}$$

$$\begin{array}{r} 14..41 \\ 10 \ 02 \\ \hline 2..2 \end{array}$$

$$\begin{array}{r} 2,3,4 - (6,3,7) \\ 8 - 42 \\ + 8 \\ \hline 34 \\ 3 \\ \hline 102 \end{array}$$

$$\begin{array}{r} 126 \\ 24 \\ \hline 150 \end{array}$$

$$\begin{array}{r} 24-132 \\ 24 \\ \hline 108 \end{array}$$

Zone 54 = 53	12 ^h 58 ^m to 15 ^h 02	0° 10' to 0° 20'
52 = 51	15 ^h 47 to 15 ^h 53	0° 00' to 0° 10'
56 = 55	15 ^h 02 to 17 ^h 02	0° 10' to 0° 20'
58 = 57	16 ^h 53 to 18 ^h 25	0° 10' to 0° 20'

