

KG

11366

n842

*Dates of Observations of
Zone Stars for 1883 and 1884*

18

List

DM.

1475.0

No. Jan

0 0 27. ⁰ ¹ +51.5138.7 1 91 5158.0

0 0 6.6 +52 43.2 8.4 1 80 5249.9 1

0 0

Dr. Star requiring observation. 1883 + 1884.

Dr. 1883		1883		No. Obs.		1883	
0	6.6	52 43.2	84	1	8.0	52 49.9	1 Nov 7-17
0	38.2	52 59.1	80	1	39.7	53 58	2 Oct 3 Jan 3
X 0	38.2	49 52.5	89	1	39.7	49 59.2	2
X 0	40.3	52 43.7	9.0	1	41.8	52 50.4	2 Nov 7-17
X 2	16.6	49 06.6	90	3	16.3	50 33	2
X 5	14.3	51 78	84	6	16.5	52 4.5	2
X 6	8.2	51 51.2	86	7	10.6	51 57.9	2
6	56.9	52 58.0	90	7	59.4	58 47	2 Nov 7 Jan 3
7	9.5	54 10.1	84	8	12.0	54 16.8	2 " 17 Jan 3
7	13.5	52 26.9	89	8	16.0	52 33.6	2 " 12-14
X 7	26.1	51 50.3	76	8	24.6	51 57.0	2
X 9	18.6	51 47.1	90	10	24.4	51 53.8	2
X 10	3.4	51 86	87	11	6.3	51 15.3	2
10	30.3	54 39.9	85	11	33.4	54 46.6	1 Nov 7-12-14
X 11	13.7	51 22.5	78	12	16.5	51 28.9	2
X 12	18.4	51 5.2	89	13	21.6	51 11.9	2
15	4.2	53 31.7	83	16	8.0	53 38.4	10 Dec 3-10
X 15	34.8	51 54.8	86	16	38.5	52 1.5	2
X 16	47.9	51 48.7	83	17	54.7	51 50.4	2
X 17	50.6	51 11.9	90	18	59.5	51 16.6	1
X 23	18.0	54 29.9	90	24	24.2	54 36.5	2
29	30.0	48 56.5	80	30	35.4	50 0.1	2
33	0.1	52 58.6	90	34	6.6	53 5.2	2
44	41.4	48 58.6	92	45	50.3	50 5.2	2
43	59.0	50 36.1	9.5	45	6.6	50 42.7	2
47	42.3	54 34.5	92	48	51.4	54 41.1	2
X 47	41.2	54 35.0	81	48	50.3	54 41.6	1
49	11.4	55 4.5	92	50	21.0	55 11.1	2 Nov 7-17
50	21.0	55 11.1	83	50	46.5	55 8.9	2 Nov 27-28
49	36.8	55 2.4					
49	52.6	53 38.5	91	51	1.8	53 45.0	1 Nov 17 Dec 22-29

17 Nov 27-28
 Nov 7-17 27-28
 Nov Dec 22-29
 " 17 Dec 22-29
 " 12-14

0.57 13.2 54 48.4 9.0 52 23.0 54 54.9 2
 52 33.7 50 59 7.6 53 42.4 50 12.4 1
 53 30.5 55 7.7 8.0 54 13.9 55 14.2 2
 54 10.4 52 4.3 7.3 55 19.8 52 10.8 1 2
 55 33.4 55 4.1 8.2 56 43.9 55 10.6 2
 55 41.9 52 5.4 8.8 56 51.5 52 11.9 1
 56 8.6 51 5.9 9.2 57 18.0 51 12.4 2
 57 46.6 54 28.6 9.0 58 57.3 54 35.1 1

Nov 17 Dec 11

11 17 Jan 3-10

Nov 7-12-14

Nov 7-12-14

Nov 7-12-14

Dec 22-29

Nov 7-12-14

Nov 7-12-14

16

36
 14
 22

28-5

^h
 1 4 3.5 50 10.0 8.5 5-16.4 55 16.4 2 Dec 6 Dec 22-29
 8 27.3 55 9.3 8.1 9 40.0 55 15.9 2 Dec 6 Dec 22-29
 X 10 11.9 50 51.3 9.0 11 23.2 50 57.7 2 Dec 3-6
 11 26.7 51 22.1 7.0 12 31.4 51 28.5 1 Dec 3-6
 14 14.4 55 1.6 8.0 18 28.5 55 2.9 2 Dec 6 - Dec 22-29
 18 21.9 52 43.2 8.0 20 35.2 52 48.5 2 Dec 6, Dec 22-29
 20 53.6 52 36.0 8.5 22 7.1 52 42.3 1 Dec 11-13
 23 1.4 51 43.3 7.8 24 14.8 51 48.6 1 fall Dec 11-13
 24 9.5 55 4.1 7.5 25 24.6 55 10.4 2 Dec 11-13
 26 26.3 53 22.3 8.1 27 40.9 53 28.5 2 not seen (Dec 22-29) not seen
 29 21.3 54 28.6 8.9 30 36.9 54 31.7 2 Nov 27 Dec 3
 29 36.8 51 51.8 8.6 30 51.2 51 58.0 2 Dec 22-29
 30 23.5 55 2.7 3.5 31 35.9 55 8.5 2 Dec 13-6-10
 X 32 57.3 52 46.0 9.2 34 12.5 52 52.1 2
~~33 8.2 53 57.6 8.5 34 25.1 54 3.7 2~~
 X 34 19.8 52 33.6 9.0 35 35.1 52 38.9 2 Nov 27-28
 34 24.4 55 8.8 7.4 35 41.1 55 14.9 2 Dec 3-6-10
 X 36 44.1 49 52.9 7.8 35 58.3 49 15.0 2

1 $\frac{1}{42}$ 37.8 52.5 8.9 48 54.5 53 4.1 2 ~~Dec 10~~ 10-16-17

X 44 45 51 55.9 9.4 45 20.9 52.1 2

46 15.7 55 7.1 8.5 47 34.3 55 13.1 2 Dec 3-10

46 49.9 50 80.0 9.5 48 5.8 50 86.0 2 Dec 11-13

49 52.2 55 4.9 8.2 51 11.2 55 10.8 2 Dec 6-10

49 54.6 55 0.3 7.9 51 13.6 55 6.2 2 Dec-22-29

50 18.9 49 88.7 8.7 51 31.0 49 59.6 1

50 31.7 50 40.5 8.8 51 33.1 50 40.7

X 51 31.7 50 40.5 8.8 52 48.3 50 46.4 2

not even Jan 10

53 3.5 52 50.5 8.8 54 21.6 52 56.4 2 Dec 3-6-10

54 3.9 55 4.4 8.8 55 23.5 55 10.3 2 Dec 3-6-10

59 4.8 55 9.8 9.2 1 6.3 55 15.8 2 Dec-22-29

19

(28) 24 ~ 4
23

2 X $\frac{1}{2}$ 8.7 49 57.7 8.9 3 26.3 52 2.1 5.5 1 Dec-22-29

2 54.7 52 40.4 8.8 4 14.0 52 46.1 2 Dec 6-10

3 59.8 54 10.3 5.0 5 20.3 54 16.0 1 Dec 6-10

4 10.5 53 2.9 9.4 5 21.2 53 8.6 2

X 4 58.4 52 15.5 9.2 6 17.7 52 21.0

5 2.5 55 4.0 8.0 6 23.8 55 9.7 2 Dec 6-10

5 5.6 55 12.5 8.0 6 27.0 55 12.6 2 Jan 10-16-17

7 35.7 55 5.3 8.5 8 57.3 55 11.0 2 Dec. 22-29

7 43.5 55 10.0 9.1 9 50 55 15.7 2 Jan 10-16-17

9 43.0 49 50.1 9.0 11 10 49 55.7 #1 Jan 10-16-17

9 54.2 51 52.0 9.0 11 13.9 51 58.1 1 Dec 6-10

10 34.6 53 31.3 8.8 11 55.5 53 36.9 1 Dec-22-29

10 48.5 55 5.8 8.0 12 10.5 55 14.5 2 Jan 10-16-17

13 59.7 51 41.6 8.0 15 19.7 51 47.2 1 Dec 22-29

X 16 13.4 50 50.5 9.0 17 33.1 50 56.0 1 Dec 22-29

16 24.6 53 27.9 8.9 17 46.3 53 33.4 1

^{h - 5}
 217138 55 9.8 8.9 14 36.6 55 11.3 2 Dec-11-19
 20 63 50 80.7 8.5 21 26.4 50 41.2 2 Dec-11-19
 22 22.9 55 8.5 9.5 28 46.6 55 13.9 2 Dec-11-19
 23 34.7 57 39.4 9.5 24 55.9 57 44.8 2 Jan 17-21-22
 26 43.6 55 68.8 28 7.9 55 12.2 2 Jan 3-10
 27 9.8 55 15 9.3 28 34.2 58 6.9 2 Jan 3-10
 27 16.2 51 35.8 8.9 28 37.9 51 41.2 2 Dec-11-19
 X 28 20.7 51 14.0 8.5 29 42.3 51 18.3 1 Jan 22
 X 29 46.6 49 53.4 8.9 31 7.4 49 4.4 2 Dec-11-19
 30 43.7 53 4.2 9.3 32 6.9 38 9.5 1 Dec-11-19
 X 33 44.1 49 57.2 8.8 35 5.3 50 3.4 2
 34 18.9 58 1.2 8.5 35 44.0 55 12.4 2 Dec-11-19
 X 34 37.7 49 54.7 9.9 36 19.0 49 5.9 2
 36 11.5 52 33.4 8.0 37 34.9 52 38.6 1 Jan 3-10
 36 18.6 58 27.1 8.8 37 43.8 53 32.3 1
 37 48.1 55 9.0 7.5 38 13.8 55 14.2 2 Jan 3-10
 38 15.5 50 50.9 9.2 39 37.9 51 10 2 Jan 21-22
 38 27.0 53 32.0 7.8 39 51.5 53 37.1 1 Jan 3-10
 39 23.7 53 18.8 8.5 40 48.1 53 23.9 1 Jan 3-10
 39 30.4 54 53.0 7.5 40 16.2 54 57.1 2 Jan 21-22
 40 23.8 51 40.0 7.5 41 47.1 51 45.7 2 Jan 3-10
 X 44 52.6 50 28.1 8.5 46 11.3 50 28.1 1
 46 46.3 55 3.5 9.0 48 13.1 55 8.5 2 Jan 3-10
 51 52.4 58 47.0 7.3 53 18.7 53 17.9 1 Jan 3-10
 X 54 20.0 50 47.7 8.8 55 44.0 50 52.6 2
 57 26.7 55 8.8 8.0 58 54.8 55 8.6 2 Jan 27-29

23

41

33

26-15

24

3	0 ⁵	299	52	388	70	1	558	52	405	2	Jan 21
	5	29.2	50	24.9	6.7	6	54.0	50	29.5		Jan 21
X	5	48.5	51	14	78	7	89	~~51~~	~~60~~	2	
	5	493	52	53.1	89	7	146	50	577	2	Jan 3-10
	9	272	55	0.2	72	10	567	55	97	2	Jan 3-10
	11	18.1	55	3.1	85	12	428	55	76	2	Jan 3-10
	14	317	55	9.2	9.3	19	2.2	65	18.5	2	Jan 3-10
X	18	108	54	2.0	8.1	19	402	54	6.3	1	
	21	58.0	50	59.4	9.0	28	24.9	51	3.7	2	Jan 3-10
	22	25.5	55	3.5	8.2	23	26.5	55	77	2	Jan 3-10
	23	877	53	5.6	88	25	6.7	58	8.8	1	Jan 3-10
	26	540	54	41.2	8.3	28	250	54	45.4	1	Jan 3-10
	31	428	55	4.1	89	3.3	147	55	8.1	2	Jan 3-10
X	37	32.4	51	35.3	8.3	39	128	~~51~~	~~39.2~~	1	
	37	579	52	28.7	90	39	257	52	27.6	1	Jan 3-26
	38	16.5	50	14.9	87	39	24.1	50	14.8	1	Jan 21-26
	38	32.6	54	15.8	80	70	4.3	54	19.7	2	Jan 3
	38	388	54	56.3	87	40	5.2	50	0.2	1	Jan 21-26
	51	48.3	52	20.8	8.7	53	19.1	52	24.3	2	Jan 21-26
	52	50.7	51	29.3	8.5	54	20.7	51	32.8	1	Jan 21
X	54	9.3	52	24.8	91	55	40.3	~~52~~	~~24.3~~	1	
	54	220	52	54.0	89	55	18.5	52	57.5	2	Jan 21
	54	58.2	52	36.0	9.2	56	26.0	52	39.5	2	Jan 21
	57	353	50	33.0	77	59	474	50	36.2	1	Jan 21
	57	54.2	49	52.8	8.5	59	23.1	49	56.2	2	
	59	41.2	51	5.3	9.5	1	11.2	51	8.6	1	Jan 21-26

(22)
2
19

11 11

13

4	6	40.1	50	35.5	9.0	8	10.2	50	38.4	2	Jan 21-26
X 7	22.0	49	56.0	4.5	8	51.5	~~49~~	~~59.1~~	~~2~~		
9	30.6	55	9.2	8.0	11	6.0	55	12.3	2	Jan 21-26	
9	48.6	49	53.5	9.0	11	18.3	49	56.6	2	Feb 23	
X 10	26.6	58	55.0	9.0	12	0.5	~~58~~	~~58.1~~	1	Jan 21	
14	54.2	58	16.4	8.4	16	27.8	58	19.4	1	Jan 21-26	
X 16	26.5	50	28.0	8.6	17	~~57.0~~	~~50~~	~~25.9~~	2	Jan 21	
17	13.1	53	35.2	8.4	18	47.1	53	38.0	2	Jan 26 Feb 21	
21	33.1	58	8.9	9.5	23	9.3	55	11.7	2	Feb 20 Feb 29	
24	14.3	55	8.1	8.5	26	10.6	55	10.8	2		
30	31.9	49	55.2	9.0	32	2.8	49	57.7		Jan 26 (Feb 2) Feb 20	
24	55.2	52	34.6	7.9	26	28.8	52	47.0	2		
35	36.4	49	52.8	7.8	37	7.6	49	55.2	2		
35	46.6	51	38.7	9.5	37	19.5	51	41.1	2		
38	16.6	47.5	8.5	38	53.5	54	48.5	2		Jan 26 (Feb 2)	
39	36.0	58	6.9	9.0	41	13.4	55	8.2	2	Jan 26 (Feb 2) 16-26	
41	6.0	51	44.1	9.2	42	39.3	51	46.4	2	Jan 26 Feb 2	
41	7.5	51	7.6	8.3	42	40.1	51	9.9	2		
41	13.5	51	~~4.2~~	^{6.5} 9.2	42	46.1	51	~~6.5~~	1	Corr. fr. Charles C. full short at southernmost of group of four	
43	14.1	55	1.2	5.8	44	51.6	55	3.4	2		
43	47.0	52	47.9	8.8	45	21.7	52	50.1	2	Jan 26	
48	15.9	52	53.8	6.4	49	50.9	52	55.9	2	Jan 26 Feb 16-20	
50	57.0	50	2.1	8.5	52	28.9	50	4.1	X ²	Jan 26 - Feb 16-20	
X 51	~~24.1~~	~~51~~	~~50.2~~	~~9.0~~	~~52~~	~~58.1~~	~~51~~	~~52.2~~	~~1~~		
53	46.8	53	7.7	9.3	55	22.4	53	9.6	1		
54	38.8	55	9.1	7.4	56	16.8	55	11.0	2		
X 55	~~9.8~~	~~52~~	~~46.5~~	~~8.9~~	~~56~~	~~45.0~~	~~52~~	~~48.4~~	~~2~~		
56	23.5	52	1.2	9.0	57	57.9	52	3.0	2		
X 58	~~9.4~~	~~52~~	~~31.8~~	~~9.4~~	~~59~~	~~44.4~~	~~52~~	~~33.6~~	~~1~~		
X 59	~~28.1~~	~~52~~	~~34.0~~	~~8.6~~	~~1~~	~~3.2~~	~~52~~	~~35.7~~	~~2~~		

74

21 7

20

26

⁵ hrs	² 11.6	¹ 49° 51.8	^{9.4} mag.	³ 47.2	² 49 53.5		
⁵ hrs	⁵ 31.0	53 24.6	9.0	⁷ 7.4	53 26.2	1	
6	34.2	55 3.5	8.9	8 12.8	55 5.0	2	Mar-4
~~8~~	~~31.2~~	~~50 51.0~~	~~8.0~~	~~10 4.7~~	~~50 52.5~~	~~2~~	
11	2.4	52 35.6	8.5	12 38.0	52 37.0	2	Mar-1-4
16	0.1	53 56.9	9.2	17 37.5	53 57.2	1	
~~16~~	~~42.2~~	~~53 56.4~~	~~9.3~~	~~18 19.7~~	~~53 57.7~~	~~1~~	
16	51.7	54 49.1	8.5	18 30.5	54 50.4	1	Mar-1-4
~~17~~	~~7.5~~	~~50 49.4~~	~~8.7~~	~~18 41.2~~	~~50 50.7~~	~~2~~	
18	12.6	53 17.3	7.3	19 49.3	53 18.5	1	Mar-4
19	30.3	53 13.4	8.2	21 6.9	53 14.6	1	Mar-4
22	30.7	53 8.8	9.4	24 7.3	53 9.9	1	Mar 4
26	25.4	54 51.4	8.5	28 4.4	54 52.4	1	Mar-4
~~26~~	~~56.8~~	~~50 25.6~~	~~8.0~~	~~28 30.2~~	~~50 26.6~~	~~2~~	
~~27~~	~~16.9~~	~~49 52.5~~	~~8.5~~	~~28 49.9~~	~~49 53.5~~		Mar-4
27	42.8	53 46.8	9.0	29 20.0	53 47.8	1	
28	35.4	55 1.1	8.0	30 14.7	55 2.0	2	Mar-4
~~33~~	~~39.4~~	~~52 34.5~~	~~8.2~~	~~35 15.5~~	~~52 35.3~~	~~2~~	
35	22.0	51 2.0	8.8	36 56.2	51 2.7	1	
37	11.3	55 4.0	9.2	38 50.8	55 4.7	2	
38	26.6	50 24.1	9.0	40 0.2	50 24.7	1	Mar-4
39	31.5	53 22.8	8.9	41 8.8	53 23.4	~~2~~	fell Mar 1 Mar 10
40	55.0	50 22.8	9.0	42 28.6	50 23.4	1	Bot Mar
41	12.0	53 52.8	9.2	42 49.9	53 53.4	~~2~~	
41	47.8	50 15.4	8.3	43 21.3	50 15.9	1	Mar 10
~~42~~	~~8.2~~	~~52 35.5~~	~~8.5~~	~~43 44.5~~	~~52 36.0~~	~~2~~	
42	20.9	50 7.6	9.0	43 54.2	50 8.1	1	Mar - 20
~~43~~	~~49.6~~	~~52 18.2~~	~~9.1~~	~~45 25.5~~	~~52 18.7~~	~~2~~	
~~44~~	~~49.9~~	~~53 18.6~~	~~8.5~~	~~46 27.1~~	~~53 19.0~~	~~2~~	
~~46~~	~~14.4~~	~~52 7.9~~	~~9.0~~	~~47 50.1~~	~~52 8.3~~	~~1~~	
47	34.7	52 37.5	8.9	49 11.1	52 37.8	1	Mar 10
~~47~~	~~42.1~~	~~52 23.2~~	~~8.4~~	~~49 18.2~~	~~52 23.5~~	~~2~~	
~~47~~	~~45.2~~	~~53 11.8~~	~~8.7~~	~~49 22.9~~	~~53 12.1~~	~~2~~	

5 ⁴	48	6.6	54	22.3	8.5	49	48.2	54	22.6	1	Feb w Mar 16
	49	22.6	49	57.3	8.3	50	55.8	49	57.6	2	Feb w Mar 16
	50	0.8	55	8.0	9.0	51	40.6	55	8.3	2	Feb w
	52	27.1	50	14.3	9.0	54	0.6	50	14.5	2	Feb w
	54	53.0	49	57.6	8.8	56	26.2	49	57.7	2	Feb w Mar 10 - 18
	55	52.6	49	57.6	8.3	57	25.8	49	57.7	1	Feb w Mar 10 - 18
	56	6.9	51	25.2	8.5	57	41.8	51	25.3	2	Mar 10 - 18
	57	0.4	50	22.2	9.0	58	34.1	50	22.3	2	Feb w Mar 10 - 18

$\frac{2}{18}$ $\frac{1}{20}$
18 20

6 ⁴	9	52.0	55	0.1	9.0	11	31.6	54	58.8	2	Feb. w Mar 4
	14	23.3	51	56.9	9.0	15	58.8	51	56.5	2	Mar y Mar 10 - 15
	18	52.7	52	13.0	9.0	20	28.5	52	12.4	2	Mar 10 - 15
	~~22~~	~~27.2~~	~~51~~	~~6.5~~	~~9.0~~	~~24~~	~~1.6~~	~~51~~	~~5.8~~	~~2~~	
	27	5.3	55	9.0	9.0	28	44.8	55	8.2	2	Feb w Mar 10 - 15
	28	58.6	55	1.6	9.0	30	34.9	55	0.7	2	Feb w Mar y
	34	56.7	55	7.7	9.4	36	36.0	55	6.7	2	Feb w Mar y
	39	36.1	51	18.2	8.7	41	10.4	51	17.1	1	Mar 16 - 18
	~~39~~	~~40.9~~	~~50~~	~~44.9~~	~~9.4~~	~~41~~	~~14.6~~	~~50~~	~~43.8~~	~~2~~	?
	40	22.0	51	46.2	9.3	41	56.8	51	45.1	2	
	41	41.9	55	2.7	8.1	43	20.9	55	1.5	2	Mar 15 - 16 - 18
	48	48.9	55	8.4	9.0	50	27.8	55	7.0	2	Feb 16 - 20
	49	21.3	55	2.1	7.0	51	0.1	55	0.7	2	Feb 27 - Mar 1
	50	56.6	51	31.4	9.3	52	30.8	51	29.9	1	Feb 27 - Mar 1
	51	20.8	55	4.7	8.7	52	59.5	55	3.2	2	Feb 16 - w
	53	22.9	52	23.3	8.8	54	58.1	52	21.8	2	Feb 16 - w
	54	7.6	52	57.1	6.7	55	43.4	52	58.5	1	Feb 16 - w

6^h

55² 2.1³ 49 53.0 9.5 56 34.3 49 57.4 ~~X²~~ Feb 16-20
 55 19.1 57 47.4 9.1 56 57.3 54 46.1 2 in S Mar 16-18
~~X 56 43.2 54 20.7 8.5 58 20.7 54 19.1 2~~
 57 20.8 53 54.3 9.0 58 57.7 53 52.6 2 Feb 16-20

174

15

7

7

~~X 1 48.8 49 52.2 9.0 3 20.7 49 50.5~~ Feb 27-Mar 4
~~1 58.3 52 54.1 8.9 3 33.8 52 52.3 2~~
 2 24.2 55 4.9 9.3 4 2.5 55 3.1 2 Feb 27-Mar 4
 2 29.1 50 48.0 8.2 4 2.0 50 46.2 1 Mar 16-18
 4 13.5 51 40.7 7.5 5 47.4 51 38.9 1 Feb 27-Mar 4
 4 48.8 55 8.4 8.7 6 27.0 55 6.6 2 Feb 27-Mar 4
 5 44.6 51 20.0 9.2 7 18.0 51 18.1 1 Feb 27-Mar 4
 8 3.0 55 8.9 8.0 9 41.1 55 7.0 2 Feb 27-Mar 4
 10 42.3 50 3.0 8.5 12 14.2 50 1.0 1 Feb 27-Mar 4
 11 44.0 50 2.0 9.0 13 15.8 49 59.9 1 Feb 27-Mar 4
 17 54.6 51 2.2 9.0 19 27.2 51 0.0 1 Feb 27-Mar 4
 18 51.8 50 15.3 8.8 20 23.4 50 13.0 2 Feb 27-Mar 4
 18 57.5 49 57.4 6.0 20 28.9 49 55.1 1 Mar 16-18
 20 2.3 50 20.5 7.8 21 34.0 50 18.2 1 Feb 27-Mar 4
 27 55.9 52 52.9 7.3 29 30.1 52 50.4 1 in S Mar 16-18
 29 37.3 55 5.4 8.8 31 14.2 55 2.8 2 Mar 16-18
 30 11.3 55 7.0 6.7 31 48.1 55 4.4 2 Mar 16-18
 39 47.8 55 6.1 7.1 41 23.9 55 3.3 2 Feb 27-Mar 4
 42 42.6 55 5.1 7.0 44 18.5 55 2.2 2 Mar 18-22
 46 17.6 55 3.1 8.2 47 53.2 55 0.1 2 Feb 27-Mar 4
 50 43.1 55 0.5 8.0 52 18.3 54 57.4 2 Feb 27-Mar 4
~~X 52 13.4 54 33.5 8.7 53 48.0 54 30.3 1~~

7 53 13.0 55 9.4 7.5 54 48.2 55 6.2 2 Feb 27 Mar 3
 59 46.4 54 40.3 8.0 1 20.5 54 37.0 2 Feb 27 Mar 3 Mar 18-29 / 2

2 1
 13 10

8 6 5.0 52 49.3 9.3 7 36.4 52 45.9 1 in 8 Mar 3 Mar 18
 7 12.8 55 1.4 6.7 8 46.7 54 57.9 2 Mar 3-15-18
 12 4.7 55 3.0 7.8 13 47.9 54 59.4 2 Mar 22-25-31
 13 0.6 52 0.1 8.5 14 30.6 51 56.4 1 Mar 22-25-31
 17 12.2 55 9.8 9.0 18 45.3 55 0.6 2 Mar 22-25-31
 18 38.4 50 39.6 9.0 20 6.7 50 35.8 2 Mar 25-31
 18 54.6 51 48.6 9.2 20 23.9 51 44.8 1 Mar 25-31 Aug
 21 51.4 51 59.3 9.4 23 20.7 51 55.5 1 in 8 May 15-18
 22 9.6 51 15.3 8.8 23 38.1 51 11.5 2 Mar 15-18
 27 29.2 55 2.0 9.3 29 1.2 54 58.0 2 Mar 15-18
 29 35.3 52 17.9 9.2 31 4.2 52 13.9 1 in 8 Mar 15-18
 35 58.1 50 32.8 8.5 37 24.8 50 28.6 2 Mar 15-18
 51 26.2 50 17.1 8.2 52 51.2 50 12.6 2 in 8 Mar 22-24-31
 51 53.5 55 4.7 8.3 53 22.9 55 0.2 2 Mar 22-24-31
 53 14.5 55 8.3 9.2 54 43.9 55 3.7 2 Mar 22-31
 58 54.8 49 53.6 7.5 0 18.7 49 48.9 2 Mar 22 Aug 14
 59 20.6 55 4.7 9.0 0 49.2 55 0.0 2 Mar 22 Aug 14
 59 26.1 50 3.1 9.0 0 50.1 49 58.4 2 Mar 22-31
 59 38.5 55 3.1 9.2 1 7.0 54 58.4 2 Aug 14
 59 58.7 52 58.7 8.0 1 25.2 52 54.0 2 Mar 22-31

2 1
 14 5

15

9⁴

2	51.8	50	21.4	9.2	4	15.8	50	16.7	1	Mar 12-22
11	58.2	51	35.1		13	22.2	51	30.2	1	Mar 24-31
12	12.9	54	11.5	9.0	13	39.1	54	6.6	2	Mar 12-14
13	9.2	51	23.5	9.1	14	32.9	51	18.5	2 in 5	Mar 24-31
13	29.2	55	6.2	9.5	14	56.1	55	1.2	2	Mar 12-14
13	38.0	51	55.7	9.4	15	2.1	51	50.7	1 in 5	Mar 24-31
19	5.7	50	42.5	9.0	20	28.2	50	37.4	1	Mar 24-31 Mar 12-14
19	6.4	50	39.1	7.7	20	28.9	50	34.0	1	Mar 12-14
23	6.7	52	20.8	3.0	24	30.0	52	15.6	1	Mar 24-31
24	52.6	52	42.5	5.0	25	16.0	52	37.3	1	Mar 24-31
26	1.9	53	57.2	8.3	27	26.2	53	52.0	2	Mar 24-31
26	17.5	51	44.8	9.4	27	40.0	51	39.6	1	Mar 24-31 not seen
28	57.7	50	54.0	8.80	30	19.2	50	48.7	1	Mar 12-22
31	6.7	53	16.4	8.0	32	29.8	53	11.1	2	Mar 12-22
31	31.7	55	6.4	9.5	32	56.2	55	1.1	2	Mar 12-22
33	4.3	55	1.8	6.7	34	28.6	54	56.4	2	Mar 12-22
33	10.5	51	14.8	8.0	34	31.8	51	9.4	1	Mar 24-31
X 33	41.6	53	39.5	8.3	35	4.6	53	34.1	1	
34	7.9	54	25.6	9.0	35	31.5	54	20.2	2	Mar 12-22
34	51.7	52	2.9	8.8	36	13.4	51	57.5	1	Mar 12-22
39	56.6	53	33.8	7.2	41	18.8	53	28.4	1	Mar 12-22
40	10.3	49	54.3	9.3	41	29.9	49	48.9	2	Mar 24-31
40	52.6	53	48.1	9.0	42	14.8	53	42.6	1	Mar 12-24-31
42	18.2	53	49.3	8.7	43	40.3	53	43.8	1	Mar 12-24-31
X 42	25.5	50	25.3	7.5	43	45.2	50	19.8	1	
42	50.1	49	57.2	7.6	44	9.4	49	51.7	2	Mar 24-31

9

46	45.5	55	0.2	9.5	48	7.9	54	54.7	2	Mar 22-31
48	39.9	52	6.3	9.4	49	59.9	52	0.7	1	Mar 22-24-31
52	31.8	53	40.7	9.3	53	52.4	53	35.1	1	Mar 12-22
53	53.4	49	54.1	8.2	55	11.4	49	48.5	2	Mar 12-22
54	58.6	55	3.4	8.8	56	20.1	54	57.7	2	Mar 24-31
57	52.6	49	56.5	9.0	59	10.2	49	50.7	2	Mar 12-22
2	28.5	50	11.4	6.8	3	45.6	50	5.6	1	
4	59.6	54	16.7	8.4						
$\frac{2}{14}$	$\frac{1}{18}$									

14

10

2	28.5	50	11.4	6.8	3	45.6	50	5.6	1	Mar 24-31
4	59.6	54	16.7	8.4	6	18.9	54	10.9	1	Mar 24-31
8	10.1	53	0.8	8.0	9	28.1	52	54.9	1	Apr 12-14
9	40.8	49	56.1	8.8	10	56.9	49	50.2	2	Apr 12-14
17	4.3	55	8.2	7.0	18	22.4	55	2.2	2	Apr 12-14
18	25.4	55	9.5	9.3	19	43.3	55	3.5	2	Apr 12-14
31	55.8	55	5.2	9.0	33	11.6	54	59.0	2	Apr 12-14
33	26.5	52	26.1	9.4	34	40.7	52	19.9	2	Apr 12-14
33	41.7	55	8.6	9.2	34	57.2	55	2.4	2	Apr 23-26
39	48.2	55	6.4	9.4	41	2.7	55	0.1	2	Apr 12-14
41	28.0	52	1.2	8.4	42	40.9	51	54.9	1	Apr 12-14
42	54.8	51	1.7	8.3	44	7.1	50	55.4	1	Apr 3-26
~~51~~	~~50.1~~	~~54~~	~~0.7~~	~~8.9~~	~~53~~	~~2.3~~	~~53~~	~~54.3~~	~~1~~	
52	10.2	55	7.2	8.9	53	22.8	55	0.8	2	
$\frac{2}{8}$	$\frac{1}{6}$									

Continued on p 34

10

3

11 ⁴	3	2.2	53	33.9	mag. 9.0	11	12.5	53	27.4	2	Mar 23-26
	4	12.8	51	51.1	9.2	5	22.4	51	44.6	1	
	5	21.6	51	58.9	8.8	6	31.0	51	52.4	1 = 5	
11	16	22.3	52	48.0	mag. 9.2	17	30.4	52	41.4	1	Mar 23-26
	30	10.0	51	11.0	9.5	31	15.7	51	4.4	2	Mar 26 ² Mar 30 Aug ¹²
	37	26.5	54	45.5	8.0	38	31.6	54	38.9	1	Mar 25-26 ² 28-30
	47	14.3	54	16.1	9.4	48	17.8	54	8.4	1	Aug ¹²
	52	21.7	52	46.4	9.3	53	24.2	52	34.7	1	Mar 28-30
	52	58.6	49	57.5	9.2	54	1.0	49	50.8	1	Mar 28-30 Aug ¹²
<u>4</u>		<u>7</u>									

12	11	17.3	51	26.4	9.4	12	17.0	51	19.7	1	Aug 12
	12	34.2	52	17.0	9.4	13	33.6	52	10.3	1	Aug 12
	13	13.1	54	5.2	9.3	14	12.4	53	58.5	1	Aug 12
	13	16.7	50	8.7	9.5	14	16.2	50	2.0	2	
	15	44.9	50	50.5	8.8	16	44.0	50	43.8	1	Aug 12
	~~36~~	~~57.1~~	~~54~~	~~54.2~~	~~8.9~~	~~37~~	~~52.4~~	~~54~~	~~47.6~~	~~1~~	
	~~38~~	~~54.4~~	~~54~~	~~11.1~~	~~9.0~~	~~39~~	~~49.5~~	~~54~~	~~4.5~~	~~1~~	
	2	1									
	2	6									

12^h 59^m 8.3 51° 46.8' 8.8^{mag} 13 0^m 1.1 51° 40.3' 2 May 26-31 2

13	0	33.7	52	47.5	9.0	1	25.9	52	41.0	1	June 2
	11	22.7	50	32.4	7.7	12	14.2	50	26.0	1	May 26-31
	11	31.4	52	7.4	9.0	12	22.3	52	1.0	1	May 26-31
	30	44.9	50	13.7	6.5	31	33.9	50	7.5	2	June 3-4-5
	32	55.2	52	20.2	9.4	33	42.9	52	14.0	1	May 26-31
	34	56.9	51	33.0	8.7	35	44.8	51	26.9	1	May 26-31
	36	19.4	53	9.6	8.9	37	6.2	53	3.5	1	June 3-5
	36	27.4	50	18.7	8.7	37	15.7	50	12.6	1	June 3-4-5
	37	26.4	50	18.2	7.7	38	14.6	50	12.1	2	May 26-31
	38	35.5	54	34.6	8.8	39	21.3	54	28.5	1	May 26-31
	40	20.5	50	3.9	9.5	41	8.4	49	57.8	1	May 26-31
	42	40.4	54	47.3	9.2	43	25.5	54	41.3	2	May 26-31
	42	44.4	55	4.2	9.5	43	29.3	54	58.2	1	June 9
	43	32.5	50	8.4	8.1	44	20.0	50	2.4	1	May 26-31
	46	49.0	52	52.0	9.4	47	34.5	52	46.0	1	June 3-4-5
	46	51.8	50	43.4	8.7	47	38.5	50	37.4	1	May 26-31
	50	48.0	53	8.3	9.2	51	32.9	53	2.4	1	May 26-31
	54	29.0	52	53.0	8.9	55	13.5	52	47.1	2	May 26-31
	58	1.7	55	2.2	Feb.	58	44.2	54	54.4	2	Not done
	Σ										
	5										14

14

0	45.3	50	20.9	7.8	1	30.5	50	15.1	1
3	31.4	51	18.9	8.3	4	15.7	51	13.1	1
4	59.3	52	47.0	8.5	5	42.5	52	41.3	2
5	2.0	51	46.4	9.4	5	45.8	51	40.7	1
10	2.8	51	44.9	8.3	10	46.0	51	37.2	1
11	7.8	52	11.9	8.0	11	51.1	52	6.3	1
20	16.7	52	31.3	4.0	20	58.1	52	28.8	2
27	51.3	50	23.9	9.2	28	33.3	50	18.5	2
30	11.5	50	26.1	8.8	30	53.2	50	19.7	2
31	27.0	50	9.5	7.8	32	8.8	50	4.2	1
33	39.2	54	38.8	5.8	34	17.2	54	33.5	2
34	45.6	54	3.5	7.3	35	24.0	53	58.3	2
39	33.1	50	29.1	9.5	40	13.7	50	23.9	2
41	22.3	50	54.0	9.1	42	2.5	50	48.9	1
41	40.3	51	0.0	7.0	42	20.3	50	54.9	1
42	53.3	51	2.4	8.5	43	33.2	50	57.3	1
44	31.1	54	6.8	8.8	45	8.3	54	1.8	2
48	31.5	54	7.2	9.5	49	8.2	54	2.2	1
51	4.0	54	14.9	7.7	51	40.2	54	9.9	2
55	8.0	50	0.6	7.5	55	47.3	49	55.7	1

2 1
9 11

My 26-31

My 26-31

My 26-31

Jun 4-9-14

My 26-31

Jun 4-9-14

Fundamental

Jun 4-9-14

Jun 4-9-14

Jun 4-9-14

Jun 4-9-14

Jun 9-14

Jun 9-14

Jun 9-14

Jun 9-14

Jun 9-14

Jun 9-14 Jun 9-14-16-17

Jun 9-14 16-17

Jun 9-14

Jun 16-17

9

15 X 2 9.9 55 7.1 5.5 2 44.0 55 2.4 2

17 46.7 51 58.2 9.5 18 22.2 51 50.8 2

23 43.4 50 16.0 8.5 24 19.9 50 11.7 1

24 8.4 49 59.7 9.0 24 45.0 49 55.4 2

26 16.7 53 36.2 9.2 26 50.6 53 32.0 1

27 39.9 53 49.6 8.5 28 12.6 53 45.4 1

Jun 16-17

Jun 16-17 Jun 19-21

Jun 16-17

Jun 16-17

Jun 16-17

15	28	52.2	52	50.6	9.2	29	25.7	52	46.4	1	June 16-17
	32	12.5	55	6.2	6.0	32	43.4	55	2.1	2	June 16-17
	34	27.8	53	2.6	9.3	35	0.6	52	58.6	1	June 16-17
	~~37~~	~~30.5~~	~~49~~	~~54.8~~	~~8.1~~	~~38~~	~~6.0~~	~~49~~	~~60.8~~	~~1~~	
	38	58.4	55	0.9	8.7	39	28.6	54	56.9	2	June 16-17
	42	58.0	52	22.8	9.4	43	30.8	52	18.9	2	June 16-17
	43	55.6	50	27.4	7.6	44	30.2	50	23.6	1	June 19-21
	46	59.2	52	40.7	8.4	47	31.3	52	36.9	1	June 19-21
	59	38.9	53	51.3	8.9	0	8.6	53	47.9	2	June 19-21
	59	48.4	50	53.7	8.8	0	21.4	50	50.3	1	June 19-21
	59	51.9	53	48.5	8.8	0	21.8	53	45.1	1	June 30, Aug 1
	$\frac{2}{7}$	$\frac{1}{10}$									

16	1	37.9	54	48.8	9.3	2	6.4	54	45.5	1	June 19-21
	10	12.5	50	26.8	8.5	10	45.2	50	23.7	2	July 26-30 31
	15	57.9	51	54.7	8.9	16	28.7	51	51.7	2	June 30, 31
	~~21~~	~~53.0~~	~~50~~	~~38.0~~	~~8.0~~	~~22~~	~~24.8~~	~~50~~	~~35.2~~	~~1~~	
	24	9.9	51	32.5	9.0	24	40.6	51	29.7	1	June 30-31
	24	33.7	54	32.5	8.8	25	0.8	54	29.7	1	July 3 10
	~~25~~	~~1.2~~	~~51~~	~~45.4~~	~~6.2~~	~~25~~	~~31.6~~	~~51~~	~~42.6~~	~~1~~	
	28	28.9	53	18.0	8.0	28	57.3	53	15.3	2	July 3-10
	39	16.8	49	50.4	8.8	39	48.4	49	48.1	1	July 15-16
	39	20.4	53	51.8	8.9	39	47.4	53	49.5	1	July 15
	42	42.2	53	0.7	9.0	43	10.1	52	58.5	2	July 14-15
	47	43.3	51	1.1	7.7	47	52	51	0.5		July 14-15-16
	52	36.7	50	21.6	9.0	53	7.2	50	19.6	2	July 14-15
	~~58~~	~~4.6~~	~~53~~	~~54.1~~	~~8.8~~	~~58~~	~~30.6~~	~~53~~	~~52.2~~	~~2~~	~~5~~
	$\frac{2}{6}$	$\frac{1}{7}$									

17^h 0^m 43.4 53° 24.4 mag 7.8 1^m 10.0 53° 22.5 2^m 5 July 15-16

X 1 7.6 53 0.9 8.2 1 34.6 52 59.2 2

1 45.0 53 20.5 8.5 2 11.6 53 18.8 1

July 15-16

X 2 36.1 53 56.1 8.3 3 2.0 53 55.4 2

2 44.7 51 39.4 9.3 3 13.4 51 37.7 2

July 15-16

2 45.8 53 22.8 9.3 3 12.3 53 21.1 1

July 22-26

3 3.6 51 39.3 9.5 3 32.3 51 37.6 2

July 22-26

4 4.8 52 52.4 9.3 4 32.0 52 50.7 2

1. 22-26

7 55.9 52 7.8 9.0 8 23.9 52 6.3 1

1. 22-26

9 2.6 54 18.8 7.0 9 27.8 54 17.3 2

July 15-17

15 21.0 53 13.0 9.3 15 47.3 53 11.6 1

" 15-17

16 52.6 52 14.4 9.0 17 20.1 52 13.0 1

" 15-17

X 17 51.7 50 3.7 9.2 18 21.8 50 2.4 1

24 54.3 50 17.2 8.3 25 23.9 50 16.0 2

" 17-22

25 22.0 50 33.5 9.2 25 51.3 50 32.5 1

" 26 not seen

25 56.4 50 23.6 9.0 26 25.9 50 22.6 2

" 15-17

X 27 2.3 53 11.0 8.9 27 28.3 53 10.0 1

27 28.3 49 50.9 8.8 27 58.2 49 49.9 1

" 15-17

29 14.3 52 11.6 8.0 29 41.5 52 10.6 1

" 15-17

X 29 40.4 50 37.6 9.4 30 9.5 50 36.6 2

33 54.4 50 45.3 8.1 34 23.3 50 44.5 2-8

" 15-17

X 33 59.8 50 32.6 8.5 34 28.8 50 31.8 2

34 48.6 53 27.5 9.0 35 14.2 53 26.7 2

" 15-17

39 13.5 51 40.7 9.0 39 41.2 50 40.1 2

not seen " 15-17

39 14.8 51 20.0 8.5 39 42.9 51 19.4 1

" 15-17

X 39 52.7 49 56.1 8.3 40 22.3 49 55.5 2

42 53.3 49 48.4 8.3 43 17.2 49 47.9

" 15-17

41 46.3 53 21.5 9.0 42 11.9 53 21.0 2

" 15-17

43 26.4 53 37.7 7.5 43 51.6 53 37.2

" 15-17

45 10.9 53 36.1 8.7 45 36.1 53 35.7 1

" 15-17

49 33.6 50 8.7 8.8 50 3.0 50 8.3 1

" 15-17

49 39.5 50 18.2 8.9 50 8.7 50 17.8 2

50 0.3 50 23.2 9.0 51 29.4 50 22.8 1

" 15-17

17	55	53.2	51	54.7	8.5	56	20.5	51	54.6	1	Aug 21-22
	56	50.3	52	40.4	8.8	57	16.6	52	40.3	1	" 21-22
	58	52.4	51	26.9	8.4	59	20.2	51	26.9	1	Aug 18-21-22
	59	34.9	50	3.9	8.0	0	4.4	50	3.9	1	" 17-26
	59	52.2	52	34.9	8.6	0	18.7	52	34.9	1	" 17-26
	2	1									
	17	19									

5.1
5.5
5.1

18	0	55.7	50	47.4	8.5	1	24.3	50	47.4	1	" 17-21-22
X	2	13.3	51	55.9	6.7	2	40.5	51	55.9	2	
	2	33.3	55	5.4	7.2	2	56.4	55	5.4	1	July 26-30-Aug 2
X	9	52.4	51	45.8	9.0	10	19.9	51	46.0	2	
X	10	4.7	53	39.5	8.8	10	29.8	53	39.8	2	
	11	56.2	52	6.9	8.2	12	22.3	52	7.2	2	Aug 21-22
X	12	32.2	50	29.3	6.8	13	1.2	50	29.6	2	
X	15	40.8	51	40.2	9.0	16	8.4	51	40.6	2	
	16	2.3	51	3.9	9.1	16	30.7	51	4.3	1	July 26-Aug 2
X	16	35.0	54	33.9	8.5	16	58.9	54	34.4	2	
	19	0.2	55	3.7	7.4	19	23.5	55	4.2	1	" 26-Aug 2
	19	1.7	50	24.1	9.2	19	30.9	50	24.7	2	Aug 21-22
X	21	0.4	54	39.4	9.3	21	24.2	54	40.0	2	
X	22	24.4	50	14.6	8.9	22	53.8	50	15.2	2	
X	30	31.0	51	37.1	8.2	30	58.9	51	38.0	2	
	30	40.2	52	14.6	5.5	31	7.4	52	15.5	2	Aug 21
X	36	28.0	50	4.0	9.0	36	57.9	50	5.0	2	" 21
	37	32.5	54	11.0	9.2	38	7	54	12		" 21-Aug 2
	40	8.8	51	16.4	8.9	40	37.4	51	17.6	2	" 21-26
	38	37.6	49	59.8	8.8	39	7.0	50	0.9		" 21-26
	44	25.0	53	15.0	8.3	44	51.2	53	16.2	1	" 21-22

18 X 46 ~~53.5 50 33.9 8.7 47 23.1 50 35.2 2~~

53 32.1 51 18.4 7.7 54 0.9 51 19.9 1 in 5

55 8.6 52 53.8 9.2 55 35.7 52 53.4 2

July 21-28

11. 28-Aug ✓

6

2
16

1
6

19 X 2 22.1 51 50.2 9.0 2 50.7 51 52.0 1

X 5 5.7 51 55.9 9.2 5 34.4 51 55.8 2

X 10 28.0 55 7.7 9.0 10 52.8 55 9.7 1?

X 15 23.6 51 18.2 9.0 15 53.4 51 20.3 2

16 3.3 50 26.4 8.8 16 34.1 50 28.5 1 in 5 Aug 2-6

17 53.3 51 24.9 9.3 18 23.1 51 27.1 1 11/28-Aug 2

18 46.0 51 50.7 7.6 19 15.4 51 52.9 1 11. 28 Aug 2

19 49.9 52 28.1 8.7 20 18.5 52 30.3 2 11. 28 Aug 2

X 20 26.7 49 58.5 8.9 20 58.2 50 0.7 1

21 35.7 54 6.1 9.0 22 2.5 54 8.3 1 11/28 Aug 2

23 27.8 50 33.3 8.6 23 58.8 50 35.7 1 in 5 11. 28 -6

23 31.5 50 6.3 8.5 24 3.0 50 8.7 1 Aug 2

X 25 20.1 51 26.0 9.3 25 50.2 51 28.4 2?

27 29.1 49 59.6 6.0 28 0.9 50 2.1 2 Aug 2-6

X 29 27.9 51 25.7 9.4 29 58.3 51 28.2 2?

29 50.7 51 43.4 8.6 30 38.8 51 46.0 1 in 5

32 22.3 51 45.5 8.4 32 51.0 51 48.1 1?

33 22.5 51 38.0 8.9 33 52.9 51 40.6 1 in 5

34 45.4 51 51.2 9.0 35 15.6 51 53.9 1 in 5

X 36 34.9 51 36.2 9.0 36 31.9 51 38.9 2

36 4.2 51 42.7 8.9 36 34.7 51 45.4 1 in 5

11. 28 Aug 2-6

Aug 2

19	37	57.1	51	31.6	8.9	38	27.9	51	34.3	1	28 Aug 2
	38	0.2	50	11.0	6.2	38	32.4	50	13.8	2	Aug 2
	38	58.9	51	15.1	9.3	39	30.0	51	17.9	2	11 28
	39	50.9	51	38.9	9.0	40	21.6	51	40.7	1	28 Aug 2
	40	10.8	52	15.9	7.4	40	40.9	52	18.7	1	
	40	13.4	52	14.0	8.9	40	43.5	52	16.8	1	
	40	26.3	52	28.5	9.0	40	66.2	52	31.3	2	July 28 Aug 2
	40	49.8	52	47.9	8.5	41	19.3	52	50.7	1	Oct 10
	40	52.6	50	10.7	8.3	41	25.1	50	13.5	2	Oct 11-17
	40	57.8	50	26.1	7.9	41	29.9	50	28.9	2	5 July 28
X	42	7.4	51	13.0	9.0	42	38.8	51	15.9	2	Oct 10-17
	42	19.6	51	18.4	8.2	42	50.9	51	21.3	2	5 Oct 11-22
	42	58.4	49	50.9	8.9	43	31.2	49	53.8	2	Oct 10-11
	43	44.1	51	42.4	8.8	44	15.1	51	45.3	2	5 Oct 18
	43	56.4	50	58.6	8.1	44	28.1	51	1.5	2	Oct 10-11
	44	1.0	51	6.9	9.3	44	32.6	51	9.8	1	Aug 2
	44	14.1	50	33.6	8.9	44	43.0	53	36.5	2	Oct 77
	44	16.3	50	28.1	9.0	44	48.6	50	31.0	2	Aug 2
X	44	24.0	51	45.7	9.2	44	54.9	51	48.6	2	Oct 10-11
	46	48.5	49	59.1	7.8	47	21.4	50	2.1	2	11 10-11
X	47	27.0	51	35.3	9.0	47	58.3	51	38.3	1	Oct 16-17
	47	47.9	50	8.6	8.0	48	20.7	50	11.6	2	11 10-11
	48	44.3	51	55.5	9.0	49	5.4	51	58.5	2	Oct 16-17
	49	18.0	50	41.1	8.1	49	50.4	50	44.1	2	5 11 10-11
	50	7.8	50	51.0	8.9	50	40.1	50	54.1	2	5 11 16-17
X	50	34.9	51	28.5	9.0	51	6.5	51	31.6	2	11 10-11
	51	20.7	50	35.9	8.7	51	53.3	50	39.0	2	5 11 16-17
	51	26.5	52	25.8	9.0	51	57.2	52	28.9	1	11 10-11
	52	46.7	50	31.1	6.2	53	19.5	50	34.2	2	5 11 10-11
	54	13.7	50	41.8	8.8	54	46.4	50	45.0	2	11 10-11
	54	14.0	50	37.7	8.8	54	46.8	50	40.9	1	11 16 17

19	X	55	15.6	51	36.3	8.6	55	47.4	51	39.5	2	Oct-10
		56	32.3	50	15.9	8.0	57	5.7	50	19.1	2	Oct-10-11
		56	46.5	50	35.3	9.2	57	19.5	50	38.5	1	Oct-17-18
		57	19.9	52	38.0	9.0	57	50.8	52	41.3	2	" 10-16? -18-22
	X	58	26.8	51	48.5	8.5	58	57.6	51	51.8	2	" 10-11
		33	24									23

20	0	1.9	51	5.7	9.0	0	34.6	51	9.0	2	Oct-22 Nov-1
20	0	37.9	50	57.0	9.2	1	10.9	50	54.3	1	Oct-10-11
	1	41.1	50	36.9	8.1	2	14.5	50	40.2	1	Oct-11-9-10
	3	32.1	52	27.7	8.8	4	3.7	52	30.1	1	Oct-11-9-10
	5	31.9	51	50.6	7.9	6	4.3	51	54.1	2	" 9-10
X	5	41.5	50	16.1	9.4	6	15.4	50	19.6	1	" 17
	5	43.8	50	59.5	9.0	6	17.0	51	3.0	2	Oct-11-17
	5	54.1	50	53.7	9.0	6	27.5	50	57.2	2	Oct-30 Nov-1
	6	55.4	52	17.2	8.8	7	27.4	52	20.7		
	6	58.5	51	43.7	8.7	7	31.1	51	47.2	1	" 9-10
	10	6.0	50	35.0	9.1	10	40.0	50	38.6	2	Oct-11-9-10
	12	4.7	50	37.8	8.5	12	38.8	50	41.4	2	" 9-10
	12	15.0	51	33.1	7.5	12	48.2	51	36.7	1	" 11-16-17
	12	37.0	49	56.4	8.2	13	11.8	50	0.0	2	" 11-17
	12	44.5	49	50.2	8.0	13	19.3	49	53.8	2	" 9-10
X	13	27.0	50	42.1	7.3	14	1.1	50	45.8	2	" 11-16-17
	14	7.3	53	51.8	6.5	14	38.2	53	55.5	1	" 9-10
	15	0.2	50	52.6	7.8	15	34.7	50	29.8	2	" 9-10
	16	47.8	53	57.4	9.4	17	18.8	54	1.1	1	Oct-11-16-17

1883

20	17	19.5	50	21.7	8.7	17	54.3	50	25.4	2	Oct-11-16-17
	18	16.1	51	32.1	8.3	18	49.8	51	35.9	2	" 11-16-17
	18	56.7	52	57.4	7.6	19	29.0	53	1.2	2	Oct-9-10
	19	24.2	51	39.1	9.4	~~18~~ ¹⁹	57.9	51	42.9	1	" 11-16-17
	20	31.2	53	34.0	9.0	21	3.0	53	37.8	1	" 9-10- ~~11~~
	20	37.9	53	4.9	6.2	21	10.2	53	8.7	1	" 11-16-17
	20	55.8	51	55.8	9.0	21	29.3	51	59.6	2	Oct 30 Nov 1
	21	24.5	50	4.9	9.0	21	59.9	50	8.7	1 in 5	" 9-10
	22	19.0	50	2.1	8.7	22	54.4	50	6.0	2	" 9-11-16-17
	23	25.2	50	29.8	8.6	24	0.4	50	33.7	1	" 9-10
	26	19.1	51	48.8	7.1	26	53.3	51	52.7	2	" 9-10
	27	38.2	51	49.0	9.0	28	12.5	51	53.0	1 in 5	" 9-10
	30	24.2	51	32.3	9.4	30	58.9	51	36.4	2	" 9-10
	31	36.4	50	13.0	8.4	32	12.5	50	17.1	2	" 9-10
	32	7.8	50	26.9	9.0	32	43.7	50	31.0	2 in 5	" 11-16-17
	32	37.6	50	13.5	8.9	33	13.8	50	17.6	2	" 9-10
	33	52.9	51	29.6	7.2	34	28.0	51	33.8	2	" 9-10
	34	44.7	52	28.9	9.3	35	19.0	52	33.1	1	" 11-16-17
	34	53.4	50	47.7	8.5	35	29.3	50	51.9	2	" 9-10
	36	37.7	52	35.6	9.0	37	12.0	52	39.8	1 in 5	" 9-10
	36	41.9	55	6.0	8.7	37	13.6	55	10.2	1	" 11 Oct 30 Nov 1
	36	44.6	54	9.3	8.1	37	17.3	54	13.5	1	" 16-17
	37	42.7	52	46.0	9.0	38	17.0	52	50.2	2	" 9-10
	37	48.0	52	54.9	9.1	38	22.1	52	59.1	2	" 11-16-17
	38	28.7	52	6.6	7.9	39	3.7	52	10.8	1	" 16-17
	38	41.3	52	38.4	9.0	39	15.8	52	42.7	2	" 10 Oct 30 Nov 1
	38	49.6	51	50.3	9.0	39	24.8	51	54.6	2	Nov 5
	39	20.7	50	40.5	8.5	39	57.1	50	44.8	1 in 5	Oct 30 Nov 1
	39	34.4	54	46.2	6.7	40	6.8	54	50.5	2	" 10-11
	39	58.9	51	12.0	8.5	40	34.8	51	16.3	2	" 16-17
X	39	59.9	50	52.7	8.9	40	36.1	50	57.0	2	" 9-10

20	41	32.5	52	25.6	9.1	42	7.5	52	29.9	2	Oct-9-10
	41	47.1	50	32.3	9.3	42	23.8	50	32.3	1 in 5	Oct-17?
	42	36.4	54	20.6	8.8	43	9.5	54	25.0	2	" 9-10
	42	49.4	50	14.9	9.0	43	26.4	50	19.3	1 in 8	" 11? Oct 30 Nov
	42	53.7	52	4.8	7.3	43	29.0	52	9.2	2	" 16-17
	43	33.9	51	52.9	6.0	44	9.6	51	57.3	2	" 9-11
	44	19.9	51	22.4	6.0	44	56.1	⁵¹ ~~52~~	26.8	1	" 11-15-16-17
	45	2.7	50	14.4	7.3	45	40.0	50	18.8	1	" 15-16-17
	45	43.2	52	10.8	9.0	46	18.8	52	15.2	1	" 9-11
	46	37.9	50	52.6	7.2	47	14.7	50	57.0	1 in 5	" 15-16
	46	44.0	51	50.9	6.8	47	20.0	51	55.3	2	" 9-11, Nov 5-17
	47	47.7	50	5.3	8.6	48	25.3	50	9.8	1 in 8	" 9-11
	48	0.3	52	26.7	9.2	48	35.9	52	31.2	1	" 15-16
	48	24.6	50	4.9	8.6	49	2.3	50	9.4	2	" 11-15-16
	49	42.4	52	54.6	8.9	50	17.7	52	59.1	1	" 11-18-22
	50	0.5	50	57.5	9.0	50	37.6	51	2.0	1	" 15-16
	51	43.2	52	39.2	9.3	52	19.0	52	43.7	1	" 11-15-16
	52	17.4	51	21.6	8.5	52	54.4	51	26.2	2	" 11-15-16
	53	28.7	50	18.6	8.4	54	6.7	50	23.2	2	" 11-15-16
	53	54.4	54	39.3	9.0	54	28.4	54	43.9	1	" 18-22 Nov 4
	54	16.0	50	6.9	9.5	54	54.2	50	11.5	1 in 5	" 15-17 Nov 7-8
	54	21.6	51	45.8	8.0	54	58.4	51	50.4	2	" 9-11
	55	49.1	52	6.7	8.5	56	25.8	52	11.3	2	" 9-11
	56	28.0	50	49.1	9.1	57	5.9	50	53.7	1 in 5	" 15-16
X	57	21.3	53	47.3	9.0	57	56.6	53	52.0	1	" 9-18-22
	57	40.0	50	17.8	9.4	58	18.4	50	22.5	1 in 5	" 15-16
	57	48.9	50	50.4	9.0	58	26.9	50	55.1	2	" 9-11
	58	40.1	50	13.8	7.7	59	18.6	50	18.5	1 in 5	" 9-11
	59	52.2	50	12.6	8.1	0	30.9	50	17.3	1	" 9-11 58

 $\frac{2}{39}$
 $\frac{1}{31}$

21 ^h	0 ^m	34.0	50 34.2	8.5	1 12.5	50 38.7	1	001-15-16
	1	3.8	51 47.9	9.0	1 41.3	51 52.6	2	001-9-11
	2	14.3	51 25.1	8.4	2 52.2	51 29.9	2	" 9-11
	2	57.9	51 07.0	7.2	3 36.2	51 4.8	2	" 9-11
	3	36.2	50 9.8	9.0	4 15.3	50 14.6	1 in 8	" 15-16
	4	6.5	51 12.3	9.0	4 44.8	51 17.1	2	" 9-11
	7	7.7	50 3.0	9.2	7 47.2	50 7.8	1 in 8	" 11-15-16
	8	5.4	51 13.9	7.9	8 44.1	51 18.7	2	" 9-11
	8	33.3	52 5.0	8.9	9 11.4	52 9.9	2	" 15-16
	8	46.5	50 14.9	8.7	9 26.1	50 19.8	1 in 8	" 18-22
	9	8.4	51 68.0	8.8	9 46.6	52 2.9	1	" 9-11
	11	3.9	52 27.8	9.1	11 42.0	52 32.7	1	" 9-11
~~X~~	~~14~~	~~3.8~~	~~51 37.2~~	~~9.2~~	~~14 43.9~~	~~51 42.2~~	~~2~~	~~" 9-15-16~~
	14	38.6	52 58.5	8.8	15 14.6	53 3.5	1	" 9-11
~~*~~	~~16~~	~~54.3~~	~~50 12.6~~	~~8.9~~	~~17 34.8~~	~~50 17.6~~	~~2~~	~~" 9-11~~
	17	39.6	51 40.8	8.5	18 19.0	51 45.9	2	" 9-11
	19	7.1	51 2.3	6.7	19 47.1	51 7.4	1	" 9-11
	19	9.7	55 10.0	9.3	19 46.3	55 15.1	1	" 15-16
	25	31.5	52 19.2	6.3	26 11.2	52 24.4	2	~~" 15-16~~
	26	33.6	50 59.8	9.0	27 14.5	51 50	2	" 22
	26	35.4	51 58.9	6.5	27 15.6	52 4.1	2	" 9-15-16
~~*~~	~~30~~	~~45.1~~	~~52 30.0~~	~~8.5~~	~~31 25.3~~	~~52 38.3~~	~~2~~	~~" 9-15-16~~
	32	13.8	52 43.6	7.3	32 34.1	52 48.9	1	" 9-15-18-22
	32	20.8	53 6.6	9.4	33 0.8	53 11.9	1	Nov 7-8
	32	23.0	54 28.1	7.5	33 1.9	54 33.4	1	" 15-17
	32	29.0	52 11.7	8.5	33 9.7	52 17.0	1	Nov 12-14
	33	14.0	50 47.9	8.8	33 58.8	50 53.3	1	" 9-18-22
	33	30.1	49 55.8	9.4	34 12.5	50 1.2	1	" 15-16
	34	11.8	53 7.5	8.0	34 52.0	53 12.9	1	" 9-15-16
	35	9.0	53 18.8	7.6	35 49.2	53 24.2	1	" 9-15-16
	37	8.5	52 42.4	8.7	37 49.4	52 47.8	2	" 15-16
	39	32.9	54 42.9	7.7	40 12.6	54 48.3	1	" 9-11

21	X	40	7.3	52	13.6	8.8	40	48.9	52	19.0	2	Oct-15-16
	X	40	50.1	52	14.5	8.8	41	31.8	52	19.9	1	Oct-9-11
		42	3.1	52	38.0	8.5	42	44.7	52	43.5	2	" 9-11
		47	7.6	55	5.8	7.5	47	48.0	55	11.4	2	" 9-11
		47	31.5	54	37.2	9.0	48	12.2	54	42.8	2 = 5	11-16
		48	38.0	53	7.3	9.4	49	20.1	53	12.9	1 = 8	" 9-11
		49	56.4	53	49.0	9.0	50	38.1	53	54.6	1	" 9-11
		53	26.8	49	52.4	9.0	54	11.5	49	58.1	2 = 5	" 9-11
		54	53.9	51	12.7	9.4	55	38.0	51	18.4	1	" 9-15
		58	22.2	52	30.5	8.3	59	6.0	52	36.2	1 = 5	" 9 Oct 30 Nov 1
		58	42.1	55	7.5	7.8	59	24.0	55	13.2	2	" 15-16

19 n

22	X	0	14.5	53	40.3	9.0	0	57.8	53	46.1	2	Oct 15-16
		0	40.8	50	23.2	9.3	1	26.1	50	29.0	2	-15-30 Nov
	X	3	26.2	50	1.3	9.0	4	12.1	50	7.1	2	" 15-16
		5	32.7	49	55.6	8.5	6	18.8	50	1.4	1	Nov 14-17
		6	59.3	51	59.9	9.0	7	44.4	52	5.8	1	" 15-30 Nov
	X	13	40.0	52	52.7	8.9	14	25.6	52	58.7	2	" 15-16
		14	12.4	49	55.8	9.0	14	59.6	50	1.8	1	Oct 30 Nov 1
		15	1.9	54	57.4	8.3	15	46.5	54	57.4	1	55-34
		15	41.4	53	48.8	8.5	16	26.7	53	54.8	1	" 15-16
		17	29.2	54	49.6	9.2	18	14.2	54	55.6	1	" 18-22
		17	53.4	50	21.6	9.1	18	40.9	50	27.6	2	" 18-30 Nov 1
	X	19	0.2	52	1.7	8.9	19	47.0	52	7.7	2	" 18-22
		20	19.0	53	2.5	8.1	21	5.4	53	8.5	1	" 18-22
		21	15.5	50	19.6	8.9	22	3.4	50	25.6	2	" 30 Nov 1
		21	32.4	52	21.9	8.8	22	19.3	52	27.9	1	Nov 6-19
		22	16.9	49	51.5	8.9	23	5.2	49	57.6	1	" 18-30 Nov 1

22	22	48.0	52	58.8	9.3	23	34.9	52	59.9	2	Oct 18 Nov 6
X	23	53.7	52	17.9	9.3	24	41.0	52	24.0	2	" 18-22
X	25	56.8	54	29.7	9.0	26	43.1	54	55.8	2	" 18-22
	28	32.9	52	2.4	9.0	29	21.0	52	8.5	2	" 18-22
	30	1.4	49	50.8	8.8	30	60.7	49	56.9	2	" 18-22
	30	19.9	54	17.8	9.2	31	7.1	64	23.9	1	Oct 30 Nov 1
X	30	21.9	54	18.3	9.0	31	7.1	54	24.4	2	only one seen not seen
	31	18.6	53	29.8	9.4	32	6.4	53	36.0	2	Oct 30 Nov 1
	32	8.6	52	3.2	8.9	32	57.2	52	9.4	1	" 18-22
	32	27.9	54	49.0	9.0	33	16.1	54	53.2	2	" 30 Nov 1
	32	38.7	52	52.9	8.9	33	27.0	52	59.1	2	Nov 27-28
X	33	8.5	54	9.2	8.2	33	56.2	54	15.4	2	Not seen
	33	10.8	54	30.4	8.2	33	58.4	54	36.6	1	" 18-27-28
	33	31.0	50	24.0	7.5	34	15.5	50	30.2	1	" 30 Nov 1
	33	37.7	54	17.5	8.0	34	25.4	54	23.7	1	Nov 5-6
	34	17.6	50	47.8	7.8	35	7.0	50	64.0	1	" 18-22
	34	30.0	54	52.1	8.0	35	17.6	54	58.3	1	" 30 Nov 1
	34	38.9	52	18.3	9.3	35	27.7	52	24.5	1	Nov 5-6
	35	36.6	54	38.4	9.0	36	24.4	54	44.6	1	" 18-27-29-30-Nov 1
X	35	41.4	53	37.6	8.0	36	29.7	53	43.8	X	" 18 Nov 5-6
	36	47.2	53	15.0	9.4	37	35.9	53	21.2	1	" 18-30-Nov 1
	37	59.0	50	3.1	8.2	38	49.2	50	9.3	2	" 18-29-30-Nov 1
	38	43.4	55	5.8	8.3	39	31.3	55	12.1	1	" 18-27 Nov 5-6
	38	50.8	53	19.9	9.0	39	39.7	53	26.2	2	" 30 Nov 1
X	40	8.3	54	46.5	9.5	40	56.8	54	52.8	2	" 30 Nov 1
X	41	13.4	53	59.3	7.6	42	2.4	54	5.6	2	" 18-22
X	42	30.0	55	2.1	8.7	43	18.7	55	8.4	X	" 30 Nov 1
	42	47.4	53	39.2	6.0	43	36.8	53	45.5	1-5	" 18-22
X	43	48.4	55	7.9	5.9	44	37.3	55	14.2	X	" 18-22
X	45	13.3	53	32.5	9.0	46	3.1	53	58.8	X	" 30-Nov 1
	45	39.7	52	25.3	7.9	46	30.0	52	31.6	1	" 22 Nov 5-6
	45	48.5	52	18.1	9.2	46	38.9	52	24.4	1	Nov 27-28

22	46	23.7	49	56.7	7.4	47	15.1	50	3.0	2	Oct 18-22
X	46	26.8	54	38.8	8.9	47	16.3	54	35.5	2	
	46	33.8	49	52.4	9.4	47	25.2	49	48.7	2	Nov. 1? ~~As of faint to obscure~~
X	46	54.3	52	2.0	9.3	47	45.0	51	58.7	2/	
	47	23.8	51	58.1	8.5	48	14.6	52	1.4	1	" 22-30 Nov
	48	39.6	50	12.9	8.8	49	31.2	50	19.2	1-5	" 22 Nov 5-6
	49	24.9	49	51.3	8.8	50	16.7	49	57.7	2	Nov 5-6
	49	47.8	49	54.3	9.0	50	39.6	50	0.7	2	" 22 Nov 2-4
	49	53.0	49	57.2	8.7	50	44.8	50	3.6	2	Nov 5-6
X	49	58.2	53	27.4	9.1	50	48.8	53	33.8	1	
X	50	56.6	52	37.1	9.1	51	47.5	52	43.5	2	
	50	58.9	49	57.0	8.5	51	50.8	50	3.5	2	" 22 Nov 5-6
	52	13.7	49	55.5	7.9	53	5.9	50	1.9	2	" 30 - Nov
	52	21.3	49	56.1	9.2	53	13.5	50	2.5	2	Nov 5-6
X	52	54.3	53	44.7	8.4	53	45.1	53	51.1	2	" 30 - Nov
X	53	17.8	51	58.3	8.7	54	9.4	52	4.7	2	
	55	17.3	51	40.8	9.0	56	9.2	51	47.2	2	" 30 - Nov
X	55	20.0	53	51.7	8.5	56	11.2	53	58.1	2/	
	56	1.5	53	1.7	7.4	56	53.1	53	8.1	1	" 30 - Nov
X	56	18.0	53	23.9	8.9	57	9.5	53	50.3	2/	
	57	27.2	52	47.6	8.8	58	19.1	52	54.0	2	" 30 - Nov

31 29

23	0	9.7	49	52.1	9.0	1	2.9	49	58.5	2	Oct 30 Nov
	3	0.7	50	20.0	9.0	3	54.2	50	26.5	1	" 30 Nov
	4	31.3	52	41.6	8.8	5	24.3	52	48.1	1	" 30 Nov
	4	49.5	49	59.0	6.6	5	43.2	50	5.5	2	Nov 5-6
X	4	53.7	52	10.7	9.3	5	46.9	52	17.2	1	

23	5	32.9	52	33.9	8.5	6	26.1	52	40.4	1	Oct 30 Nov. 1 Nov 5-6
	X 5	~~36.2~~	~~52~~	~~24.0~~	~~8.6~~	~~6~~	~~27.4~~	~~52~~	~~30.5~~	1	
	9	4.0	49	56.9	8.0	9	58.4	50	3.4	2	" 30 Nov 1
	9	47.7	49	52.5	7.1	10	42.2	49	59.0	2	" 30 Nov 1
	10	14.6	50	13.3	9.0	11	9.1	50	19.8	2	Nov 5-6
	X 10	~~39.5~~	~~52~~	~~2.0~~	~~9.5~~	~~11~~	~~33.6~~	~~52~~	~~8.5~~	2	
	11	7.1	53	33.9	9.2	12	0.9	53	40.4	1	" 30 Nov 1
	X 11	~~10.0~~	~~54~~	~~44.6~~	~~9.1~~	~~12~~	~~8.4~~	~~54~~	~~57.1~~	2	
	X 11	~~18.2~~	~~53~~	~~38.1~~	~~8.5~~	~~12~~	~~13.0~~	~~53~~	~~44.6~~	1	
	11	41.5	55	2.9	9.0	12	34.9	55	9.5	1	" 30 Nov 1
	13	56.6	54	43.6	8.8	14	50.5	54	50.2	1	" 30 Nov 1
	X 15	~~47.1~~	~~53~~	~~18.9~~	~~8.5~~	~~16~~	~~41.6~~	~~53~~	~~25.5~~	1	" 30 Nov 1
	X 16	~~35.7~~	~~54~~	~~17.9~~	~~9.0~~	~~17~~	~~50.1~~	~~54~~	~~24.5~~	1	Nov 5-6
	16	48.3	52	10.6	9.0	17	43.2	52	17.2	1	" 30 Nov 1
	X 16	~~57.9~~	~~51~~	~~15.9~~	~~8.4~~	~~17~~	~~47.0~~	~~51~~	~~22.5~~	2	
	X 19	~~19.6~~	~~54~~	~~18.7~~	~~8.8~~	~~20~~	~~14.4~~	~~54~~	~~25.3~~	1	
	19	37.0	52	22.1	7.8	20	32.3	52	28.7	1	" 30 Nov 1
	20	4.4	49	56.0	9.0	21	0.3	50	2.6	2	Nov 5-6
	20	38.7	49	50.9	9.4	21	34.7	49	57.5	2	" 30 Nov 1
	X 20	~~44.9~~	~~54~~	~~24.3~~	~~8.5~~	~~21~~	~~39.9~~	~~54~~	~~30.9~~	2	
	X 21	~~37.4~~	~~54~~	~~30.4~~	~~9.1~~	~~22~~	~~32.6~~	~~54~~	~~37.0~~	2	
	21	47.3	54	35.3	9.0	22	42.4	54	41.9	2	" 30 Nov 1
	X 21	~~49.2~~	~~54~~	~~7.4~~	~~9.0~~	~~22~~	~~44.4~~	~~54~~	~~14.0~~	2	Nov. 7
	22	7.5	51	40.3	9.0	23	3.3	51	46.9	1	Nov 5-6
	22	29.4	50	25.3	9.5	23	25.5	50	31.9	2	" 30 Nov 1 Deep
	X 22	~~36.9~~	~~51~~	~~52.5~~	~~8.5~~	~~23~~	~~32.8~~	~~51~~	~~59.1~~	2	
	X 22	~~37.9~~	~~52~~	~~21.0~~	~~8.7~~	~~23~~	~~38.7~~	~~52~~	~~27.6~~	2	
	23	2.5	49	58.4	8.2	23	58.8	50	5.0	2	Nov 5-6
	23	30.5	51	51.5	9.5	24	26.5	51	58.1	1	" 30 Nov 1
	X 23	~~44.2~~	~~53~~	~~27.7~~	~~8.5~~	~~24~~	~~39.9~~	~~53~~	~~34.3~~	2	
	24	26.7	49	59.1	8.5	25	23.1	50	5.7	2	" 30 Nov 1

23	24	27.4	51	36.6	7.3	25	23.6	51	43.2	1	Nov 5-6
X	24	28.7	52	5.1	9.0	25	~~24.8~~	52	11.7	1	
X	24	30.5	51	46.5	9.1	25	~~26.0~~	51	53.1	2	
	24	43.8	49	52.3	8.5	25	40.3	49	58.9	2	
X	24	48.5	53	20.6	7.5	25	~~44.4~~	53	27.2	2	
	25	23.8	51	6.7	9.0	26	20.2	51	13.3	1	Oct 30 Nov 1 Nov 5-6
X	25	42.5	53	16.0	9.0	26	~~38.5~~	53	22.6	2	
X	26	0.3	52	59.7	8.5	26	~~56.4~~	53	6.3	1	Nov 7
	26	2.1	52	18.0	9.2	26	58.4	52	24.6	1	" 30 Nov 1
X	26	58.0	55	8.3	9.0	27	~~53.8~~	55	14.9	2	
	27	23.0	52	6.5	9.0	28	19.5	52	13.1	1	" 30? Nov? Nov 5-6
	28	3.0	51	5.0	8.5	28	59.8	51	11.6	2	Oct 30 Nov?
X	28	23.1	51	35.4	8.5	29	~~17.9~~	51	42.0	2	
	28	47.9	52	55.3	8.9	29	44.5	53	1.9	1	Nov 5-6
	28	50.7	53	14.6	9.0	29	47.3	53	21.2	2	" 30 Nov 1
	28	55.1	51	48.9	8.7	29	51.8	51	55.5	2	~~Nov 7~~
X	29	5.2	51	50.2	9.0	30	~~2.0~~	51	56.8	2	
	29	31.9	50	48.3	8.8	30	28.9	50	54.9	2	Oct 30 Nov 1
X	29	34.7	51	49.3	9.0	30	~~31.6~~	51	55.9	2	
	30	2.9	51	29.1	9.4	30	59.9	51	35.7	2	Nov 6? Nov 7
	30	10.4	52	39.1	9.5	31	7.3	52	45.7	1	
X	30	20.7	55	5.0	7.0	31	~~17.2~~	55	11.6	2	
X	30	43.6	54	2.8	9.2	31	~~40.3~~	54	9.4	2	
	30	48.8	49	55.2	8.9	31	46.1	50	1.8	2	" 30 Nov 1
X	31	2.7	52	1.2	7.9	31	~~59.8~~	52	7.8	2	
	31	10.8	55	9.1	8.7	32	7.3	55	15.7	2	Nov 5-6
X	31	45.8	51	51.5	9.0	32	~~42.6~~	51	58.1	1	Oct 30
	33	2.0	53	58.2	9.4	33	59.1	54	4.8	2	Oct 30 Nov 5-6
	33	8.7	51	12.4	9.0	34	6.2	51	19.0	2	Nov 7
	33	12.8	49	58.5	9.0	34	10.5	50	5.1	2	
X	33	45.1	51	45.4	7.3	34	~~42.6~~	51	52.0	2	Oct 30

23	X	33	48.1	51	55.8	8.9	~~34~~	~~45.6~~	52	2.4	1	
		34	52.1	52	22.5	9.0	35	49.7	52	29.1	1	Oct 30 Nov 5-6
	X	34	53.6	51	13.9	8.9	~~35~~	~~45.4~~	51	20.5	2/	
	X	35	21.3	51	34.6	8.8	~~36~~	~~19.1~~	51	41.2	2	
	X	35	42.4	51	29.2	9.0	~~36~~	~~40.2~~	51	35.8	2	Oct 30
	X	36	0.7	51	8.0	6.5	~~36~~	~~45.6~~	51	14.6	2/	
	X	36	9.3	51	26.3	7.6	~~37~~	~~7.2~~	51	32.9	2	Oct 30
	X	37	45.8	55	1.1	6.5	~~38~~	~~43.5~~	55	7.07	2	
		37	57.2	49	58.3	8.9	38	55.6	50	4.9	2	Oct 30 Nov 5-6
		38	56.4	49	51.5	7.0	39	55.0	49	58.1	2	Oct 30 Nov 5-6
		38	58.0	54	13.9	8.9	39	56.0	54	20.5	1	Nov 7
		38	59.5	49	50.8	9.4	39	58.0	49	57.4	2	Nov. 12-14
		39	4.6	49	58.8	7.7	40	3.2	50	5.4	2	
	X	39	16.2	52	49.0	8.7	~~40~~	~~14.4~~	52	55.6	2	
	X	39	30.0	54	21.4	8.1	~~40~~	~~28.1~~	54	28.0	2	
	X	40	7.8	50	5.7	8.8	~~41~~	~~6.4~~	50	12.4	1	
	X	40	23.0	52	25.5	9.1	~~41~~	~~21.4~~	52	32.2	2	
	X	40	47.6	52	29.8	8.8	~~41~~	~~46.1~~	52	36.5	2	
	X	41	12.4	52	8.4	9.1	~~42~~	~~11.0~~	52	15.1	2	
		41	34.7	49	56.7	7.8	42	33.5	50	3.4	2	Oct 30 Nov 5-6
	X	41	38.0	52	18.8	9.0	~~42~~	~~36.7~~	52	25.5	2	
	X	42	46.4	53	54.4	9.3	~~43~~	~~45.1~~	54	1.1	2	Oct 30
	X	42	59.4	52	4.7	9.3	~~43~~	~~58.3~~	52	11.4	2	
	X	43	1.6	53	33.7	9.0	~~44~~	~~0.3~~	53	40.4	2	
		43	16.2	49	52.3	9.2	44	15.2	49	59.0	2	Nov 5-6
		43	24.3	54	18.7	8.9	~~44~~	~~23.4~~	54	25.4	1	
	X	44	31.6	52	17.2	8.4	<u>45</u>	<u>30.7</u>	52	23.9	1	Oct 30
	X	45	35.6	53	25.0	8.6	~~46~~	~~34.7~~	53	31.7	1	
		45	56.8	49	59.2	9.0	46	56.3	50	5.9	2	Oct 30 Nov 5-6
	X	46	19.3	50	42.7	7.0	~~47~~	~~18.7~~	50	49.4	2	Nov 5-6
	X	47	20.8	54	19.4	8.2	~~48~~	~~20.1~~	54	26.1	2	Oct 30

23	X	47	48.3	53	47.0	7.8	~~48~~ 47.8	53	53.7	2	
	X	48	15.3	51	56.0	6.5	~~49~~ 14.9	52	2.7	1	
	X	49	13.1	52	54.5	7.5	~~50~~ 12.8	53	1.2	2	
	X	49	18.8	50	41.1	8.7	~~50~~ 18.6	50	47.8	1	
	X	49	49.0	52	56.9	8.8	~~50~~ 48.9	53	3.6	2	
		49	49.1	51	5.3	9.4	50	49.0	51	12.0	2 Nov 5-6
	X	49	52.5	54	54.6	6.0	~~50~~ 52.3	55	1.3	2	
	X	50	43.2	52	22.2	8.7	~~51~~ 43.1	52	28.9	2	
	X	51	13.5	50	31.0	9.0	~~52~~ 13.6	50	37.7	2	
		51	15.7	49	53.6	9.0	52	15.8	50	0.3	2 Nov 5-6
	X	51	42.0	54	56.9	5.0	~~52~~ 42.3	55	3.6	2	
	X	51	51.8	52	40.8	9.0	~~52~~ 52.0	52	47.5	2	
		52	50.2	49	58.7	8.5	53	50.6	50	6.4	2 Oct 30. Nov 5-6
		52	50.9	54	54.0	9.0	53	51.1	55	0.7	1 in 5 Oct 30 ✓
	X	53	32.0	52	28.1	9.0	~~54~~ 32.4	52	34.8	2	
		53	32.8	49	53.9	9.0	54	33.3	50	0.6	2 Oct 30 Nov 5-6
	X	54	56.3	51	46.7	8.6	~~55~~ 56.9	51	53.4	2	
		55	15.4	49	55.9	9.0	56	16.2	50	2.6	2 Nov 5-6
	X	56	3.3	52	30.5	8.0	~~57~~ 4.1	52	37.2	2	
	X	57	25.4	51	10.3	9.0	~~58~~ 26.4	51	17.0	2	
	X	57	30.5	53	58.0	9.0	~~58~~ 31.5	54	4.7	2	
		57	52.7	52	2.4	9.4	58	53.8	52	9.1	1 Oct 30 Nov 5-6
	X	58	2.9	52	2.4	9.5	~~59~~ 4.0	52	9.1	2	
	X	58	22.5	54	37.4	9.0	~~59~~ 23.6	54	44.1	2	Oct 30
	X	59	5.7	51	27.6	8.8	~~60~~ 7.0	51	34.3	2	
		59	22.4	53	55.1	9.1	0	23.7	54	1.8	2 Oct 30 Nov 5-6
	X	59	32.0	52	21.4	9.0	~~60~~ 33.3	52	28.1	2	

$\approx$ 1
 19 20

2 1
 Total no. 447 311

Star numbers were omitted by Miss Bond in copying

Number of stars to be observed twice in each hour of R.A.

$$p^h = 16$$

$$1 \quad 19$$

$$2 \quad 23$$

$$3 \quad 13$$

$$4 \quad 20$$

$$5 \quad 13$$

$$6 \quad 15$$

$$7 \quad 12$$

$$8 \quad 15$$

$$9 \quad 14$$

$$10 \quad 8$$

$$11 \quad 2$$

$$12 \quad 2$$

$$13 \quad 5$$

$$14 \quad 9$$

$$15 \quad 6$$

$$16 \quad 13$$

$$18 \quad 6$$

$$19 \quad 23$$

$$20 \quad 15$$

$$22 \quad 23$$

$$23 \quad 34$$

$$\underline{306}$$

D. M. Stars observed in 1885

9m 1855

1883phae, pr 6], 1926.