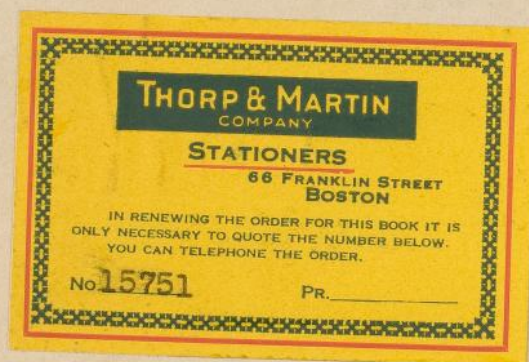


1



Positions of new nebulae on A. plate

Constance D. Boyd

All positions 1900
(neb.)

2

7

6

20

57

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	6453	103
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	6751	104

No

RA

Dec

146 18 47 4 } -46

47 2 }

18 47 3

18 46 56 -46 52

18 47 30 -46 38

147

$$\frac{mm}{8} = \frac{x}{14} = 15.2$$

$$\frac{15.2}{14} = \frac{x}{8}$$

A12546

R.A. 1900

Dec. 1900

3

No. 29 ✓

C.P.D. -25°	7598	23:51:20.2	-25°15'7.69	96.2	296.9
-25°	7601	23:54:26.7	-25°03'6.10	138.1	311.2
$1'' = 4.4$ of R.A.			#27	106.9	308.5
$1'' = 1'$ of Dec.				+10.7	+7.1
				-31.2	-7.7

#29 R.A.	23:52:07.4	-25°08'6
	23:52:11.4	-25°11'3
	<u>23:52:09</u>	<u>-25°09'9</u>

✓ (on card)

129 ✓ C.P.D. -25°	7601	23:54:26.7	-25°03'6.10	138.1	311.2
-25°	7610	23:57:46.2	-25°30'0.10	182.4	289.6
				159.5	299.6
#129 R.A.	23:56:00.9	Dec. -25°15'2	+21.4	+11.6	
	23:55:59.4	-25°15'0	-22.9	-15.0	
	23:56:00.1	-25°15'0	✓		

30 ✓ C.P.D.	-25° 7601	23:54:26.7	-25° 03' 6.10	138.1	311.2
	-25° 7597	23:50:57.7	-25° 51' 4.9	91.3	262.4
				111.0	282.8
		23:52:27.5	-25° 32' 0	-27.1	+28.4
		23:52:24.4	-25° 31' 0	+19.7	-20.4
		<u>23:52:25.9</u>	<u>-25° 31' 5</u>	✓	

26 ✓ C.P.D.	-25° 7594	23:47:30.7	-25° 32' 6.6	43.7	280.7
	-26° 7524	23:45:31.3	-26° 27' 8.8	18.2	224.1
	# 26			38.0	255.0
		23:47:05.6	-25° 58' 3	-5.7	+25.7
		23:46:58.4	-25° 56' 9	+19.8	-30.9
		23:47:02.0	-25° 57' 6	✓	

4

C.F.D

R.A 1900

Dec 1900

graph

A 12546

 $-26^{\circ} 75' 29''$ $23:45:31.3$ $-26^{\circ} 27' 8''$

18.2

224.1

 $-25^{\circ} 75' 97''$ $23:50:57.7$ $-25^{\circ} 51' 4''$

91.1

262.6

#25 ✓

 $23:46:23.7$ $-26^{\circ} 24' 4''$

30.1

227.5

 $23:46:28.4$ $-26^{\circ} 26' 5''$

+ 11.9

- 3.4

 $23:46:26.0$ $-26^{\circ} 25' 4''$

- 61.0

+ 35.1

24 ✓

 $23:46:53.1$ $-26^{\circ} 24' 1''$

36.8

227.8

 $23:46:58.8$ $-26^{\circ} 26' 2''$

+ 18.6

- 3.7

 $23:46:55.9$ $-26^{\circ} 25' 1''$

- 54.3

+ 34.8

28 ✓

 $23:48:07.9$ $-25^{\circ} 53' 3''$

53.1

258.6

 $23:48:06.1$ $-25^{\circ} 55' 0''$

+ 34.9

+ 34.5

 $23:48:07.0$ $-25^{\circ} 54' 1''$

- 38.0

+ 4.0

27 nebula? ✓

 $23:48:55.7$ $-26^{\circ} 01' 1''$

64.2

250.8

yes A.

 $23:48:59.3$ $-26^{\circ} 03' 2''$

+ 46.0

+ 26.7

 $23:48:57.5$ $-26^{\circ} 02' 1''$

✓ - 26.9

+ 11.8

31 ✓

 $23:49:25.8$ $-26^{\circ} 01' 3''$

71.5

250.6

 $23:49:31.5$ $-26^{\circ} 03' 4''$

+ 53.3

- 26.5

 $23:49:28.6$ $-26^{\circ} 02' 3''$

✓ - 19.6

+ 12.0

39 ✓

 $23:49:39.0$ $-26^{\circ} 17' 1''$

74.5

234.8

 $23:49:44.7$ $-26^{\circ} 19' 1''$

+ 56.3

- 10.7

 $23:49:41.8$ $-26^{\circ} 18' 1''$

✓ - 16.6

+ 27.8

C.P. D.

R.A. 1900

Dec. 1900

grahls 5

A 12546 75✓	-26° 7530	23:50:58.0	-26° 27'9	8.6	91.7	225.7
	-25° 7610	23:57:40.2	-25° 30'0	10	182.0	284.9
475		23:51:13.5	-26° 04'5		95.8	249.1
		23:51:20.9	26° 05'8		+3.5	-23.4
		<u>23:51:17.2</u>	<u>26° 05'1</u> ✓		-86.2	+35.8

c✓	+c	23:52:09'3	26° 02'1	107.9	251.5
		23:52:14.2	26° 03'4	+16.2	-25.8
		<u>23:52:11.7</u>	<u>26° 02'7</u> ✓	-74.1	+33.4

d not found AA.		23:52:28'2	-26° 10'4	112.2	243.2
		23:52:33.2	-26° 11'5 *	+20.5	-17.5
		<u>23:52:30.7</u>	<u>-26° 10'9</u>	-69.8	-41.7

76✓		23:53:46'5	-25° 58'7	130.0	254.9
		23:53:51.4	26° 00'0	+38.3	-29.2
		<u>23:53:48.9</u>	<u>25° 59'3</u> ✓	-52.0	+30.0

71✓		23:55:04.8	25° 44'1 ✓	147.8	269.5
		23:55:09.7	25° 45'4	+56.1	-43.8
		<u>23:55:07.2</u>	<u>25° 44'7</u>	-34.2	+15.4

78✓		23:55:07.3 *	25° 44'4		
		23:56:12.2	25° 45'7	162.0	269.2
		<u>23:55:09.7</u>	<u>25° 45'0</u>	+70'3	-43'5
				20.0	+15.7

6

C.P.D

R.A. 1900

Dec. 1900

m

graph

A 12546 77 ✓

23:57:22

-25:43.8

179.0

269.2

+87.3

-44.1

23:57:27

-25:45.0

-3.0

+15.1

23:57:24.5-25:44.4 ✓

#72 not found AA

23:55:00.4

-26:13.2

146.8

240.4

55.1

-14.7

23:55:05.3

-26:14.2

-35.2

+44.2

23:55:02.4-26:13.7 ✗

S.M.	X	Y		X	Y
Nebulula			Neb		
18 127	192.6	262.1	⑤	279.1	229.0
18 169	204.2	266.1	19 190	274.0	217.0
18 126	210.0	260.3	19 176	261.2	230.0
18 125	215.5	268.2	19 174	264.1	224.1
18 124	214.5	289.5	19 170	263.1	236.5
①	235.0	305.0	19 165	254.2	246.0
19 132	235.6	277.2	19 133	241.4	231.5
20 131	236.8	295.8	19 171	246.0	214.3
20 167	243.0	287.7	19 172	250.6	204.6
20 166	248.2	288.5	28 147	241.0	203.2
20 168	245.8	274.9	19 138	228.0	202.9
20 175	252.9	272.8	19 139	226.1	201.8
20 189	279.5	283.9	19 173	212.5	225.0
20 206	289.1	299.8	19 135	204.2	222.2
20 209	299.8	283.1	19 140	200.6	210.2
20 199	287.5	269.5	⑥	189.9	196.4
20 198	292.3	264.1	18 134	186.8	233.5
20 208	309.1	255.6	18 128	186.0	228.0
20 207	305.8	262.0	⑦	168.1	234.2
20 241	318.0	284.2	17 80	156.1	227.0
②	322.0	284.1	17 73	149.0	218.6
21 242	350.2	299.5	17 81	148.0	210.8
21 243	343.1	299.0	17 74	122.2	213.8
21 240	352.0	287.5	⑧	136.9	189.4
21 257	379.9	305.9	17 38	100.3	182.6
③	404.2	313.7	17 8	89.8	187.2
21 253	406.0	308.9	17 23	46.0	187.0
④	426.1	251.0	⑩	11.2	150.3
21 250 ?	424.9	243.3	⑨	67.8	158.1
21 239	352.9	290.0	29 a	127.0	162.0

8 Nels.

x

y

Nels

x

y

29 69	136.6	155.0	21 254	404.9	177.2
29 P3	160.0	159.9	22 255	404.8	176.0
(11)	174.4	152.8	22 252	395.4	169.2
30 70	146.9	177.0	22 237	364.9	152.4
29 P6	171.0	167.8	22 236	360.0	133.8
29 P2	178.1	176.9	22 213	342.2	129.0
28 P5	183.4	167.6	(15)	336.1	128.0
28 P7	183.8	163.7	23 214	320.0	129.2
28 147	188.2	173.7	23 215	308.2	151.2
24 137	203.0	175.6	23 201	308.4	148.0
24 136	203.4	179.6	23 216	305.0	138.2
24 142	209.5	176.5	23 202	311.8	132.0
24 146	229.0	164.5	203 (16)	299.0	112.2
24 152	232.9	164.4	27 193	283.0	108.5
24 143	238.0	164.9	27 192	273.1	114.0
24 141	241.1	176.9	27 197	280.9	119.1
23 177	267.2	174.0	23 178	257.4	152.0
23 179	259.8	162.8	23 189	266.0	133.6
22 204	293.0	187.4	27 183	265.6	124.6
22 200	300.1	198.4	23 180	252.4	141.5
22 205	311.2	185.0	23 181	248.7	142.3
22 203	300.0	175.0	23 191	245.7	138.7
(13)	313.8	169.2	(12)	241.7	137.0
21 222	322.2	196.5	28 186	249.8	131.9
22 E	336.0	170.0	28 185	246.1	117.8
22 238	368.7	168.1	23 184	240.0	113.5
22 244	378.1	182.5	28 150	233.0	117.5
21 245	384.9	193.0	2 151	237.5	108.8
21 256	403.8	190.8	28 148	228.0	116.8
(14)	423.6	200.4	28 149	212.0	117.9

	Nov	x	y	Nov	x	y
23	145	227.6	145.4	34 34	92.4	146.1
24	144	212.6	155.0	32 40	90.1	150.0
23	184	207.0	139.1	32 33	88.9	144.9
28	120	187.5	146.5	32 32	83.3	144.5
29	88	183.0	153.0	33 02	84.0	106.3
24	121	197.2	137.6	32 21	71.9	125.0
28	122	186.7	136.7	32 22	69.9	128.1
28	89	178.0	143.0	32 19	61.0	114.5
29	98	170.6	146.0	32 ^{bio} 21	43.0	119.9
31	155	196.0	105.0	32 20	18.1	109.7
31	<u>bio 164</u>	190.0	100.0	34 ^{uncertain} a	30.9	95.0
29	119	187.0	107.9	32 16	35.1	100.1
29	99	180.2	107.1	32 17	36.2	102.3
29	100	170.4	100.5	(19)	8.1	76.6
28	153	180.1	117.6	34 14	20.0	71.3
29	93	170.0	123.0	34 13	33.1	75.9
30	94	165.6	126.1	34 15	44.9	77.7
30	95	161.0	123.0	34 12	43.0	68.5
29	96	161.8	135.5	34 10	48.4	64.0
30	91	157.4	129.1	34 11	54.7	62.6
30	92	156.8	128.2	34 18	78.0	86.7
30	123	180.7	147.2	34 42	77.1	80.7
29	84	149.8	150.2	33 64	97.0	69.5
29	68	143.0	146.6	34 41	104.9	87.5
29	96	144.5	134.6	33 65	113.8	71.0
29	67	148.0	106.1	31 59	136.9	45.0
29	97	129.8	124.9	31 113	141.5	41.6
	(18)	118.2	100.0	31 58	134.1	63.8
32	37	103.0	140.0	31 101	131.8	81.2
32	36	92.1	129.0	31 118	153.2	88.6
32	35	92.6	130.9	31 66	151.5	71.3

10

	h _{rel}	x	y		h _{rel}	x	y
31	117	156.3	71.9	25	247	368.0	111.3
31	163	155.9	51.0	24	248	376.0	104.0
31	166	169.0	47.5	24	246	396.0	94.9
31	116	165.4	75.0	24	249	396.9	83.8
30	114	191.5	56.1	(20)		410.2	118.5
30	115	196.6	61.4	(21)		400.2	68.3
30	(17)	196.3	76.8	25	250	368.7	43.9
31	164	196.0	56.1	25	224	344.8	26.1
31	165	200.0	48.8	25	229	330.0	49.0
30	159	207.6	72.7	25	223	324.4	23.4
30	156	204.7	94.5	26	225	317.3	17.4
30	154	218.2	94.6	26	228	308.7	27.2
30	189	217.4	47.6	26	226	318.6	20.7
30	160	224.0	57.4	(22)		323.9	4.4
27	161	243.4	65.5	26	230	305.0	55.1
27	162	243.5	79.2	27	231	312.6	50.6
27	158	234.9	94.0	26	204	295.3	48.4
27	157	241.0	92.5	26	205	299.6	40.4
27	187	249.1	95.0	(23)		308.2	60.4
27	188	256.8	80.6	26	212	278.5	34.4
25	203	311.9	85.4	26	227	282.2	32.2
25	233	323.2	72.2	26	194	286.8	24.4
25	219	334.1	231.9	26	195	280.1	18.6
25	217	343.1	160.4	(24)		226.4	36.9
25	218	346.7	97.3	26	196	241.2	25.2
25	220	344.9	84.0	35	108	163.0	30.0
25	221	349.1	85.0	35	107	155.4	31.6
25	234	354.0	73.5	35	105	159.6	21.8
25	225	344.5	64.8	35	104	175.2	13.3
25	232	353.9	57.3	31	62	148.1	34.2
25	235	360.2	117.0	35	63	148.1	28.7

Neb				Neb			
35	61	150.0	16.0	36	50	292.1	305.8
	(25)	138.4	10.2	36	51	291.8	300.7
35	57	142.0	30.1	37	53	295.0	290.0
34	60	131.9	31.0		(31)	262.8	322.6
34	56	121.8	23.3	36	112	260.0	290.2
33	54	101.8	36.3	36	103	254.1	295.3
33	55	92.8	45.6	36	109	252.2	310.3
33	43	97.7	37.6	36	110	239.0	313.0
	(26)	99.1	32.3	36	111	239.9	302.9
33	45	101.3	21.4	36	208	235.3	303.2
33	44	97.9	31.0	36	207	218.9	311.5
33	9	71.4	45.2		(24)	194.4	267.3
33	8	75.3	39.1	see p. 10.	196.25	179.7	272.8
31	5	66.1	17.8		(32)	170.0	320.6
33	6	41.6	32.9	35	206	165.6	313.3
33	7	44.6	36.4	35	209	143.4	312.0
33	4	38.5	18.4	35	209	149.9	308.6
	(27)	16.4	12.7	35	251	147.1	304.5
				35	211	134.3	316.9
					(33)	127.1	297.3
		South up					
	(28)	388.7	319.2				
37	3	376.1	289.9				
37	1	374.7	298.4				
37	2	361.6	292.3				
	(29)	357.7	283.8				
	(30)	320.7	289.8				
37	52	304.3	295.2				
36	49	307.3	302.2				
36	46	301.1	311.0				
36	48	296.6	304.9				
36	47	292.4	309.7				

C.D.B.

Identification of Comparison stars A 12546

-25°	①	C.D.B. -25° 4	¹⁹⁰⁰ 0:01:33.1	¹⁹⁰⁰ -25° 10.4	8.0
	②	-25° 17	0:07:48.1	-25° 36.4	9.4
	③	-25° <u>23</u>	0:13:48.2	-24° 59.7	8.4
-26°	⑦	-26° 7540	23:56:43.5	-24° 20.7	8.4
	⑤	-26° 9	0:04:53.1	-26° 25.8	7.2
	④	-26° 23	0:15:42.2	-26° 01.2	8.6
	⑩	-26° 22	0:15:39.2	-26° 51.2	9.1
-27°	⑩	-27° 7586	23:44:58.2	-27° 41.2	9.4
	⑨	-27° 7584	23:49:11.8	-27° 36.0	6.4
	⑧	-27° 7594	23:54:21.7	-27° 05.1	6.7
	⑪	-27° 7603	23:57:07.8	-27° 41.4	7.8
	⑥	-27° <u>7605</u>	23:58:17.8	-26° 58.3	8.5
	⑬	-27° 8	0:07:32.2	-26° 24.8	7.9
-28°	⑬	-28° 7736	23:52:53.7	-28° 33.4	8.5

1900

1900

-28° ⑫ -28° 2 0:02:09.4 -27°57'3 8.4

⑬ -28° 6 0:06:29.2 -28°21'3 6.7

⑭ -28° 12 0:09:16.5 -28°05'1 7.5

⑮ -28° 23 0:14:50.9 -28°12'5 9.1

-29° ⑯ -29° 6872 23:44:33.2 -28°53'9 8.6

⑰ -29° 6915 23:58:45.1 -28°56'9 7.6

⑱ -29° 13 0:07:14.8 -29°12'5 9.4

⑲ -29° 25 0:14:12.7 -29°02'6 8.4

⑳ -29° 6886 23:51:21.3 -29°40'0 8.6

㉑ -29° 6926 0:01:03.1 -29°42'4 7.6

-30° ㉒ -30° 6793 23:45:01.2 -29°57'5 8.1

㉓ -30° 6799 23:46:08.2 -30°31'3 8.8

㉔ -30° 6803 23:48:32.9 -29°57'2 8.2

㉕ -30° 6808 23:51:21.4 -30°03'9 8.2

㉖ -30° 6823 23:55:47.9 -30°37'4 7.6

㉗ -30° 3 0:02:56.5 -30°35'3 8.6

(25) $-30^{\circ} 68'17''$ 23:54:19⁵9 $-30^{\circ} 02'5''$ 7.1

(33) $-30^{\circ} 15''$ 0:06:12⁵8 $-30^{\circ} 11'6''$ 8.8

(22) $-30^{\circ} 20''$ 0:08:30⁵8 $-30^{\circ} 07'7''$ 8.0

⑧	-27° 7594	23:54:21.7 _{56.5}	-27°05'1	136.9	189.4
⑩	-27° 7580	23:44:58.2	-27°41'2	11.2 _{12.7}	150.3

47.35

23 ✓		23:47:35.1	-27°07'5	46.0	187.0
		23:47:34.6	-27°04'5	-90.9	+2.4
		23:47:34.8	-27°06'0	✓ +34.8	-36.7

to not seen

	23:50:29.7	-27°07'3	89.8	187.2	50.54
	23:50:42.4	-27°04'3	-47.1	+2.2	
	23:50:36.0	-27°05'8	✗ +78.6	-36.9	

38 ✓

	23:51:57.1	-27°11'9	100.3	182.6	
	23:51:40.2	-27°08'9 ✓	✓ -36.6	+6.8	51.37
	23:51:48.6	-27°10'4	+89.1	-32.3	

⑨	-27° 7584	23:49:11.8	-27°36'0	67.8	158.1
⑦	-26° 7540	23:56:43.5	-26°20'7	168.1	234.2

74 ✓		23:53:10.0	-26°31'3	122.2	213.8
		23:53:17.4	-26°41'1 ✓	+54.4	-55.7
		23:53:13.7	-26°36'4	+45.9	+20.4

⑧	-27° 7594	23:54:21.7	-27°05'1	136.9	189.4
⑦	-26° 7540	23:56:43.5 _{141.8}	-26°20'7 _{44.9}	168.1	234.2

81 ✓		23:55:14.1 _{10.8}	-26°43'9 ✓	148.0	210.8
		(12) old method			

73 ✓		23:55:18 ✓	-26°36'1 ✓	149.0	218.6
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80 ✓		23:55:49	-26°27'7 ✓	158.1	227.0
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⑦	-26° 7540	23:56:43.5	-26° 20' 7	168.1	234.2
⑧	-25° 4	0:01:33.1	-25° 10' 4	235.0	305.0

~~138~~

127	✓	<u>23:58:33</u>	<u>-25° 53' 0</u> ✓	192.6	262.1
169	✓	<u>23:59:17</u>	<u>-25° 49' 0</u> ✓	204.2	266.1
126	✓	<u>23:59:42</u>	<u>-25° 54' 8</u> ✓	210.0	260.3
125	✓	<u>0:00:07</u>	<u>-25° 46' 9</u> ✓	215.5	268.2
124	✓	<u>0:00:02</u>	<u>-25° 25' 6</u> ✓	214.5	289.5

①	-25° 4	0:01:33.1	-25° 10' 4	231.3	305.1
⑧	-27° 7594	23:54:21.7 ¹⁸	-27° 05' 1	133.9	189.8

130	✓	<u>23:57:13</u>	<u>-26° 06' 3</u> ✓	172.2	248.9
79	✓	<u>23:56:34</u>	<u>-26° 07' 8</u> ✓	163.1	248.0

new profile readings for all	⑦	-26° 7540	23:56:43.5	-26° 20' 7	165.2	234.3
	⑧	-27° 7605	23:58:17.8	-26° 58' 3	187.7	196.7

134	not seen	<u>23:57:59</u>	<u>-26° 21' 2</u> ✗	183.1	233.9
128	not seen.	<u>23:57:30</u>	<u>-26° 26' 8</u> ✗	176.1	228.2

⑥	-27°	7605	23:58:17.8	-26°58'3	189.9	196.9
⑤	-26°	9	0:04:53.1	-26°25'8	279.1	229.0
140	✓		<u>23:59:02</u>	<u>-26°44'5</u> ✓	200.6	210.2
135	✓		<u>23:59:11.5</u>	<u>-26°32'5</u> ✓	204.2	222.2
173	✓		<u>23:59:56</u>	<u>-26°29'7</u> ✓	212.5	225.0
139	✓		<u>00:00:58</u>	<u>-26°52'9</u> ✓	226.1	201.8
138	✓		<u>0:01:07.</u>	<u>-26°51'8</u> ✓	228.0	202.9
171	✓		<u>0:02:25</u>	<u>-26°40'4</u> ✓	246.0	214.3
172	✓		<u>0:02:45</u>	<u>-26°50'1</u> ✓	250.6	209.6
190	✓		<u>0:04:30</u>	<u>-26°37'7</u> ✓	274.0	217.0
174	✓		<u>0:03:47</u>	<u>-26°30'6</u> ✓	264.1	224.1
⑤	-26°	9	0:04:53.1	-26°25'8	279.1	229.0
①	-25°	4	0:01:33.1	-25°10'4	235.0	305.0
176	✓		<u>0:03:35</u>	<u>-26°25'1</u> ✓	261.2	230.0
170	✓		<u>0:03:43</u>	<u>-26°18'6</u> ✓	263.1	236.5
165	✓		<u>0:03:02</u>	<u>-26°09'1</u> ✓ ^{10.8} _{9.4} AX	254.2	246.0
133	✓		<u>0:01:51</u>	<u>-26°23'6</u> ✓	241.4	231.5

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⑤	-26°9	0:04:53.1	-26°25'8	279.1	229.0
①	25°4	0:01:33.1	-25°10'4	235.0	305.0
132	✓	<u>0:01:36</u>	<u>-25°37'9</u>	<u>235.6</u>	✓ 277.2
131	mt seen AA.	<u>0:01:41</u>	<u>-25°20'1</u>	236.8	✗ 295.0
167	star	<u>0:02:09</u>	<u>-25°27'4</u>	<u>243.0</u>	<u>287.7</u>
168	✓	<u>0:02:20</u>	<u>-25°40'2</u>	245.8	✓ 274.9
166	✓	<u>0:02:32</u>	<u>-25°26'6</u>	248.2	✓ 288.5
175	✓	<u>0:02:55</u>	<u>-25°42'3</u>	252.9	✓ 272.8
⑤	26°9	0:04:53.1	-26°25'8	279.1	229.0
③	-25°23	0:13:48.2	-24°59'7	404.2	313.7
189	✓ = K.B.C. 24	<u>0:04:57</u>	<u>-25°30'4</u>	✓ 279.5	283.9
199	mt seen AA.	<u>0:05:32</u>	<u>-25°44'6</u>	✗ 287.5	269.5
198	✓	<u>0:05:51</u>	<u>-25°50'0</u>	✓ 292.3	264.1
208	✓	<u>0:07:03</u>	<u>-25°58'5</u>	✓ 309.1	255.6
207	✓	<u>0:06:49</u>	<u>-25°52'1</u>	✓ 305.8	262.0
206	✓	<u>0:05:38</u>	<u>-25°14'4</u>	✓ 289.1	299.8
209	✓	<u>0:06:24</u>	<u>-25°31'0</u>	✓ 299.8	283.1
241	✓	<u>0:07:41</u>	<u>-25°29'9</u>	✓ 318.0	284.2

243 ✓	<u>0:09:30</u>	<u>-25°15'1</u>	✓	343.1	299.0
242 ✓	<u>0:09:58</u>	<u>-25°14'6</u>	✓	350.2	299.5
240 ✓	<u>0:10:07</u>	<u>-25°26'6</u>	✓	352.0	287.5
257 ✓	<u>0:12:06</u>	<u>-25°08'2</u>	✓	379.9	305.9

③	-25° 23	0:13:48.2	-24°59'7	404.2	313.7
④	-26° 23	0:15:42.2	-26°01'2	426.1	251.0

253 ✓	<u>0:13:56</u>	<u>-25°04'1</u>	✓	406.0	308.7
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④	-26° 23	0:15:42.5	-26°01'2	426.1	251.0
⑬	-27° 8	0:07:32.2	-27°24'8	313.8	169.2

239 ✓	<u>0:09:52</u>	<u>-26°23'1</u>	✓	352.9	230.0
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no. 250 ✓	<u>0:14:01</u>	<u>-26°09'7</u>	✓	424.9	243.3
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222 ✓	<u>0:08:14</u>	<u>-26°55'2</u>	✓	322.2	196.5
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⑭	-26° 22	0:15:39.2	-26°51'2	423.6	200.4
⑮	-28° 12	0:09:16.5	-28°05'1	336.1	128.0

256 ✓	<u>0:14:09</u>	<u>-27°02'0.5</u>	✓	403.8	190.8
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245 ✓	<u>0:12:47</u>	<u>-26°59'3</u>	✓	384.9	193.0
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254 ✓	<u>0:14:14</u>	<u>-27°15'1</u>	✓	404.9	177.2
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255 ✓		<u>00:14:13</u>	<u>-27° 16' 3</u>	✓ 404.8	176.0
252 ✓		<u>0:13:33</u>	<u>-27° 23' 1</u>	✓ 395.4	167.2
244 ✓		<u>0:12:19</u>	<u>-27° 09' 8</u>	✓ 378.1	182.5
e	~~star SFM~~	~~0:09:16~~	~~-27° 22' 3~~	336.0	170.0
238	Mitrew A	<u>0:11:36</u>	<u>-27° 24' 2</u>	✗ 368.7	168.1
237 ✓		<u>0:11:21</u>	<u>-27° 39' 9</u>	✓ 364.9	152.4
236 ✓		<u>0:11:00</u>	<u>-27° 58' 5</u>	✓ 360.0	133.8
213 ✓		<u>0:09:44</u>	<u>-28° 03' 3</u>	✓ 342.2	129.0
⑬	-27° 8	<u>0:07:32.2</u>	<u>-27° 24' 8</u>	313.8	169.2
⑮	-26° 9	<u>0:04:53.1</u>	<u>-26° 25' 8</u>	279.1	229.0
203 ✓		<u>0:06:28</u>	<u>-27° 19' 4</u>	✓ 300.0	175.0
204 ✓		<u>0:05:58</u>	<u>-27° 07' 0</u>	✓ 293.0	187.4
205 ✓		<u>0:07:21</u>	<u>-27° 09' 4</u>	✓ 311.2	185.0
200 ✓		<u>0:07:16</u>	<u>-26° 56' 0</u>	✓ 310.1	198.4

(6)	-27° 7605	23:58:17.8	-26°58'3	189.9	196.4
(15)	-28° 12	0:09:16.5	-28°05'1	336.1	128.0

✓ 214		<u>0:08:02</u>	-28°04'7 ^{with (5)+(6)} -28°05'3 ^{with (15)+(16)} <u>mean -28°05'0</u>	✓ 320.0	129.2
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✓ 202		<u>0:07:24</u>	-28°01'9	✓ 311.8	132.0
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216	star S.F.M.	~~0:07:39~~	~~-27°55'7~~	~~305.0~~	~~138.2~~
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✓ 201		<u>0:07:10</u>	-27°45'9	✓ 308.4	148.0
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✓ 215		<u>0:07:09</u>	-27°42'7	✓ 308.2	151.2
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✓ 177		<u>0:04:05</u>	-27°19'9	✓ 267.2	174.0
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✓ 179		<u>0:02:47</u>	-27°31'1	✓ 259.8	162.8
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✓ 178		<u>0:03:22</u>	-27°41'9	✓ 257.4	152.0
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✓ 180		<u>0:02:58</u>	-27°52'4	✓ 252.4	141.5
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✓ 181		<u>0:02:43</u>	-27°51'6	✓ 248.7	142.3
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✓ 182		<u>0:04:00</u>	-28°00'3	✓ 266.0	133.6
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✓ 191		<u>0:02:28</u>	-27°55'2	✓ 245.7	138.7
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not seen	145	<u>0:01:07</u>	-27°48'5	✗ 227.6	145.4
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✓ 184		<u>23:59:34</u>	-27°54'8	✓ 207.0	139.1
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⑥	-27° 7605	23:58:17.8	-26° 58' 3	189.9	196.4
⑮	-28° 12	0:09:16.5	-28° 05' 1	336.1	128.0
✓ 121		<u>23:58:50</u>	<u>-27° 56' 3</u> ✓	197.2	137.6
✓ 144		<u>23:59:13</u>	<u>-27° 38' 9</u> ✓	212.6	155.0
✓ 142		<u>23:59:45</u>	<u>-27° 17' 5</u> ✓	209.5	176.5
✓ 136		<u>23:59:17</u>	<u>-27° 14' 3</u> ✓	203.4	179.6
✓ 137		<u>23:59:15</u>	<u>-27° 18' 3</u> ✓	203.0	175.6
152	star S.F.Am.	<u>0:01:30</u>	<u>-27° 29' 5</u> ✓	~~232.9~~	~~164.4~~
✓ 146		<u>0:01:13</u>	<u>-27° 29' 4</u> ✓	229.0	164.5
✓ 141		<u>0:02:07</u>	<u>-27° 17' 0</u> ✓	241.1	176.9
✓ 143		<u>0:01:52</u>	<u>-27° 29' 0</u> ✓	238.0	164.9
②①	-28° 23	0:14:50.9	-28° 12' 5	410.2	118.5
②③	-29° 13	0:07:14.8	-29° 12' 5	308.2	60.4
246 ✓		<u>0:13:49</u>	<u>-28° 16' 5</u> ✓	396.0	114.9
249 ✓		<u>0:13:52</u>	<u>-28° 48' 1</u> ✓	396.9	83.8
★ 248 ✓		<u>0:12:18</u>	<u>-28° 27' 9</u> ✓	376.0	104.0

247 ✓	<u>0:11:43</u>	<u>-28°:20'6</u> ✓	368.0	111.3
235 ✓	<u>0:11:06</u>	<u>-28°:14'9</u> ✓	360.2	117.0
217 <i>star</i>	~~<u>0:09:50</u>~~	~~<u>-28°:31'5</u>~~	~~343.1~~	~~100.4~~
218 ✓	<u>0:10:06</u>	<u>-28°:34'6</u> ✓	346.7	97.3
220 ✓	<u>0:09:57</u>	<u>-28°:47'9</u> ✓	344.9	84.0
221 ✓	<u>0:10:17</u>	<u>-28°:46'9</u> ✓	349.1	85.0
234 ✓	<u>0:10:40</u>	<u>-28°:58'4</u> ✓	354.0	73.5
219 ✓	<u>0:09:10</u>	<u>-28°:50'0</u> ✓	339.1	81.9
203 ✓	<u>0:07:29</u>	<u>-28°:46'5</u> ✓	311.9	85.4
225 ✓	<u>0:09:56</u>	<u>-29°:07'1</u> ✓	344.5	64.8
233 ✓	<u>0:08:21</u>	<u>-28°:59'7</u> ✓	323.2	72.2

(21) -29° 25	0:14:12.7	-29°:02'6	400.2	68.3
(22) -30° 20	0:08:30.8	-30°:07'7	323.9	4.4

232 <i>not seen Alt.</i>	<u>0:10:44</u>	<u>-29°:13'7</u> ✗	353.9	57.5
250 <i>star S.F.M.</i>	~~<u>0:11:52</u>~~	~~<u>-29°:27'6</u>~~	~~368.7~~	~~42.9~~
229 ✓	<u>0:08:57</u>	<u>-29°:22'5</u> ✓	330.0	49.0
224 ✓	<u>0:10:03</u>	<u>-29°:45'4</u> ✓	344.8	26.1
223 ✓	<u>0:08:34</u>	<u>-29°:48'1</u> ✓	324.4	23.4

(22)	$-30^{\circ} 20$	0:08:30.8	$-30^{\circ} 07' 7$	323.9	4.4
(24)	$-29^{\circ} 6926$	0:02:03.1	$-29^{\circ} 42' 4$	226.4	30.9
225 ✓		0:08:04	$-29^{\circ} 55' 3$ ✓	317.3	17.4
228 ✓		0:07:15	$-29^{\circ} 45' 5$ ✓	308.7	27.2
226 not seen At		0:08:09	$-29^{\circ} 52' 0$ ✗	318.6	20.7
194 ✓		0:06:02	$-29^{\circ} 48' 3$ ✓	286.8	24.4
195 ✓		0:05:36	$-29^{\circ} 54' 7$ ✓	280.1	18.0
196 star SKM:		~~0:03:02~~	~~$-29^{\circ} 41' 5$~~	~~241.2~~	~~25.2~~
(23)	$-29^{\circ} 13$	0:07:14.8	$-29^{\circ} 12' 5$	308.2	60.4
(24)	$-29^{\circ} 6926$	0:02:03.1	$-29^{\circ} 42' 4$	226.4	30.9
227 ✓		0:05:27	$-29^{\circ} 40' 9$ ✓	282.2	32.2
212 ✓		0:05:17	$-29^{\circ} 38' 7$ ✓	278.5	34.4
205 ✓		0:06:43	$-29^{\circ} 32' 5$ ✓	299.6	40.4
204 ✓		0:06:26	$-29^{\circ} 24' 9$	295.3	48.4
230 ✓		0:07:07	$-29^{\circ} 18' 0$	305.0	55.1

(22)	-30° 20	0:08:30.8	-30° 07' 7	323.9	4.4
(23)	-29° 13	0:07:14.8	-29° 12' 5	368.2	60.4
231 ✓		0:07:35	-29° 21' 9 ✓	312.6	50.6
(16)	-28° 6	0:06:29.2	-28° 21' 3	299.0	112.2
(24)	-29° 6926	0:02:03.1	-29° 42' 4	226.4	30.9
161 ✓		0:03:06	-29° 07' 9 ✓	243.4	65.5
162 ✓		0:03:07	-28° 54' 2 ✓	243.5	79.2
188 ✓		0:03:58	-28° 52' 8 ✓	256.8	80.6
157 ✓		0:02:57	-28° 40' 9 ✓	241.0	92.5
187 ✓		0:03:27	-28° 38' 4 ✓	249.1	95.0
158 ✓		0:02:34	-28° 39' 4 ✓	234.9	94.0
193 ✓		0:05:37	-28° 24' 9 ✓	283.0	108.5
151 ✓		0:01:45	-28° 24' 6 ✓	237.5	108.8
(16)	-28° 6	0:06:29.2	-28° 21' 3	299.0	112.2
(11)	-27° 7603	23:57:07.8	-27° 41' 4	174.4	152.8
192 ✓		0:04:39	-28° 19' 8 ✓	273.1	114.0
197 ✓		0:05:05	-28° 14' 7 ✓	280.9	119.1
183 ✓		0:03:56	-28° 09' 2 ✓	265.6	124.6

⑩	-28°6	0:06:29.2	-28°21'3	299.0	112.2
⑪	-27°7603	23:57:07.8	-27°41'4	174.4	152.8
186	not seen	0:02:44	-28°01'9 ✗	249.8	131.9
185	not seen	0:02:27	-28°16'0 ✗	246.1	117.8
153	not seen	23:57:32	-28°16'2 ✗	180.1	117.6
150	✓	0:01:26	-28°16'4 ✓	233.0	117.5
148	✓	0:01:04	-28°17'0 ✓	228.0	116.8
149	✓	23:59:58	-28°15'9 ✓	212.0	117.9
89	✓	23:57:23	-27°45'1 ✓	178.0	149.0
122	✓	23:58:02	-27°57'1 ✓	186.7	136.7
120	✓	23:58:01	-27°47'3 ✓	187.5	146.5
⑥	-27°7605	23:58:17.8	-26°58'3	189.9	196.4
⑧	-28°7736	23:52:51.7	-28°33'4	118.2	100.0
✓ 82		23:57:17	-27°17'1 ✓	178.1	176.9
✓ 147		23:58:02	-27°20'3 ✓	188.2	173.7
✓ 85		23:57:41	-27°26'4 ✓	183.4	167.6
✓ 87		23:57:42	-27°30'3 ✓	183.8	163.7

				184.5?	
✓	88	<u>23:57:40</u>	<u>-27°41'0</u> ✓	183.0	153.0
✓	86	<u>23:56:47</u>	<u>-27°26'2</u> ✓	171.0	167.8
				8.7?	
✓	98	<u>23:56:45</u>	<u>-27°48'0</u> ✓	171.4	145.6
				170.6	146.0
✓	90	<u>23:56:06</u>	<u>-27°58'5</u> ✓	161.8	135.5
✓	a	<u>23:53:32</u>	<u>-27°32'0</u> ✓	127.0	162.0
✓	69	<u>23:54:13</u>	<u>-27°39'0</u> ✓	136.6	155.0
✓	83	<u>23:55:57</u>	<u>-27°34'1</u> ✓	160.0	159.9
✓	84	<u>23:55:13</u>	<u>-27°43'3</u> ✓	149.8	150.2
✓	68	<u>23:54:44</u>	<u>-27°47'4</u> ✓	143.0	146.6
✓	96	<u>23:54:48</u>	<u>-27°59'4</u> ✓	144.5	134.6
✓	97	<u>23:53:44</u>	<u>-28°09'1</u> ✓	129.8	124.9
✓	67	<u>23:55:04</u>	<u>-28°27'9</u> ✓	148.0	106.1
✓	100	<u>23:56:44</u>	<u>-28°33'4</u> ✓	170.4	100.5
✓	99	<u>23:57:27</u>	<u>-28°26'9</u> ✓	180.2	107.1
✓	119	<u>23:57:57</u>	<u>-28°26'1</u> ✓	187.0	107.9
✓	93	<u>23:56:43</u>	<u>-28°11'0</u> ✓	170.0	123.0

⑥	-27° 7605	23:58:17.8	-26° 58' 3	159.9	196.4
⑧	-28° 7736	23:52:53.7	-28° 33' 4	118.2	100.0
✓ 91		23:55:46	-28° 04' 9 ✓	157.4	129.1
✓ 92		23:55:43	-28° 05' 8 ✓	156.8	128.2
✓ 95		23:56:02	-28° 11' 0 ✓	161.0	123.0
✓ 70	<u>double</u> M.	23:54:59	-27° 17' 0 ✓	146.9	177.0
✓ 94		23:56:22	-28° 07' 9 ✓	165.6	126.1
123	Mt. seen M.	23:55:17	-27° 46' 8 ✗	150.7	147.2
→ ②④	-29° 6926	0:02:03.1	-29° 42' 4	226.4	30.9
⑧	-28° 7736	23:52:53.7	-28° 33' 4	118.2	100.0
156 ✓		~~0:01:54~~ 59 25	-28° 38' 8 ✓	204.7	94.5
154 ✓		~~0:01:22~~ 00 27	-28° 38' 8 ✓	218.2	94.6
160 ✓		0:01:50	-29° 15' 9 ✓	224.0	57.4
(189) ✓		0:01:18	-29° 25' 8 ✓	217.4	47.6
159 ✓		0:00:28	-29° 00' 6 ✓	207.6	72.7
114 ✓		23:59:07.5	-29° 17' 2 ✓	191.5	56.1
115 ✓		23:59:30	-29° 11' 9 ✓	196.0	61.4

163	star	~~23:56:05~~	~~-29° 22' 3~~	~~155.9~~	~~57.0~~
164 ✓		23:59:30	-29° 17' 2 ✓	196.0	56.1
165 ✓		23:59:50	-29° 24' 5 ✓	200.0	48.8
106 ✓		23:57:11	-29° 25' 9 ✓	169.0	47.5
62 ✓		23:55:26	-29° 39' 1 ✓	148.1	34.2
116 ✓		23:56:54	-28° 58' 4 ✓	165.4	75.0
117 ✓		23:56:07	-29° 01' 4 ✓	156.3	71.9
118 ✓		23:55:50	-28° 44' 7 ✓	153.2	88.6
66 ✓		23:55:43	-29° 02' 0 ✓	151.5	71.3
101 ✓		23:54:01	-28° 52' 1 ✓	131.8	81.2
58 ✓		23:54:13	-29° 09' 5 ✓	134.1	63.8
59	not seen H	23:54:28	-29° 28' 3 ✗	136.9	45.0
113	not seen H	23:54:51	-29° 31' 7 ✗	141.5	41.6
①①	-27° 76.3	23:57:07.8	-27° 41' 4	174.4	152.8
①⑦	-29° 69.15	23:58:45.1	-28° 56' 9	196.3	76.8
bis 164	not seen.	23:58:17	-28° 33' 9 ✗	190.0	100.0
155		23:58:44	-28° 28' 9 ✓	196.0	105.0

(18)	-28° 7736	23:52:53.7	-28:33.4	118.2	100.0
(10)	-27° 7580	23:44:58.2	-27:41.2	11.2	150.3
40	Star	~~23:50:58~~ ⁴⁷	~~-27:41.0~~ ^X	90.1	150.0
33	✓	~~23:50:57~~ ⁴²	~~-27:47.5~~ [✓]	88.9	144.9
32	✓	~~23:50:18~~	~~-27:49.9~~ [✓]	83.3	144.5
34	not seen	~~23:50:29~~ ⁵⁸	~~-27:46.3~~ ^X	92.4	146.1
37	✓	~~23:51:07~~ ⁴⁴	~~-27:52.4~~ [✓]	103.0	140.0
35	✓	~~23:50:59~~	~~-28:01.5~~ [✓]	92.6	130.9
36	✓	~~23:51:51~~ ⁰	~~-28:03.4~~ [✓]	92.1	129.0
22	✓	~~23:49:19~~	~~-28:04.3~~ ^{04 X} [✓]	69.9	128.1
21	✓	~~23:49:28~~	~~-28:07.4~~	71.9	125.0
21 bis	✓	~~23:47:17~~	~~-28:12.5~~	43.0	119.9
20	✓	~~23:45:28~~	~~-28:22.7~~	18.1	109.7
17	✓	~~23:46:47~~	~~-28:30.2~~	36.2	102.3
16	✓	~~23:46:44~~	~~-28:33.4~~ ^{found}	35.1	100.1
19	star	~~23:48:40~~	~~-28:27.9~~	61.0	104.5

102	2 stars M.	23:49:53	-28:26:1	89.0	106.3
(18)	-28° 7736	23:52:53.7	-28:33:4	118.2	100.0
(27)	-30° <u>6793</u>	23:45:01.2	-29:57:5	16.4	12.7
4 ✓		23:46:34	-29:53:5 ✓	38.5	18.4
6 ✓		23:46:58	-29:38:9 ✓	41.6	32.9
7 ✓		23:47:13	-29:35:4 ✓	44.6	34.4
8 ✓		23:49:35	-29:32:7 ✓	75.3	39.1
9 ✓		23:49:14	-29:26:2 ✓	71.4	45.2
5 ✓		23:48:52	-29:54:0 ✓	66.1	17.8
45 ✓		~~✓~~ 23:51:36	-29:50:4 ✓	101.3	21.4
44 ✓		~~✓~~ ^{51 18} 23:50:34.5	-29:40:8 ✓	97.9	31.0
(43) ✓	= I.C. 5314	~~✓~~ 23:51:18	-29:34:2 ✓	97.7	37.6
54 ✓		~~✓~~ ^{2 20 1} 23:51:39	-29:35:3 ✓	~~111.8~~	36.3
55 ✓		23:50:55	-29:26:2 ✓	92.8	45.6
65	star	~~23:52:33~~	~~-29:00:8~~	~~113.8~~	~~71.0~~
64 ✓		23:51:15	-29:02:3 ✓	97.0	69.5

(18)	-28° 7736	23:52:53.7	-28° 33' 4	118.2	100.0
(27)	-30° 6793	23:45:01.2	-29° 57' 5	16.4	12.7

41 ✓		<u>23:51:53</u>	<u>-28° 44' 3 ✓</u>	104.9	87.5
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42 ✓		<u>23:49:43</u>	<u>-28° 51' 1 ✓</u>	77.1	80.7
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18 ✓		<u>23:49:38</u>	<u>-28° 45' 1 ✓</u>	76.0	86.7
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(13) = I.C. 5362 ✓		<u>23:46:19</u>	<u>-28° 56' 0 ✓</u>	33.1	75.1
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14 ✓		<u>23:45:19</u>	<u>-29° 00' 5 ✓</u>	20.0	71.3
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15 ✓		<u>23:47:15</u>	<u>-28° 53' 8 ✓</u>	44.9	77.7
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10 ✓		<u>23:47:32</u>	<u>-29° 07' 8 ✓</u>	48.4	69.0
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11 ✓		<u>23:48:00</u>	<u>-29° 09' 2 ✓</u>	54.7	62.6
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(12) = I.C. 5363 ✓		<u>23:47:29</u>	<u>-29° 03' 3 ✓</u>	48.0	68.5
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<i>measured on 2/9</i>	<i>big star SPM.</i>	<u>~~23:46:10~~</u>	<u>~~-29° 36' 8 ✓~~</u>	<u>~~30.9~~</u>	<u>~~95.0~~</u>
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(26)	-29° 6886	23:51:21.3	-29° 40' 0	99.1	32.3
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(25)	-30° 6817	23:54:19.9	-30° 02' 5	138.4	10.2
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60 ✓		<u>23:53:43</u>	<u>-29° 41' 5 ✓</u>	131.9	31.0
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56 ✓		<u>23:53:02</u>	<u>-29° 49' 2 ✓</u>	121.8	23.3
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(17)	-29° 69'15	23:58:45.1	-28°:56'9	196.3	76.8
(25)	-30° 68'17	23:54:19.9	-30°:02'5	138.4	10.2
57 ✓		23:54:35	-29°:43'1 ✓	142.0	30.1
107 ✓		23:55:34	-29°:41'6 ✓	155.4	31.6
63 ✓		23:55:01	-29°:44'5 ✓	148.1	28.7
61 ✓		23:55:32	-29°:57'2 ✓	150.0	16.0
108	star	26:56:07	-29°:43'2	163.0	30.0
104 ✓		23:56:59	-29°:59'9 ✓	175.2	13.3
105 ✓		23:55:52	-29°:51'6 ✓	159.6	21.6
(33)	-30° 15	0:06:12.8	-30°:11'6	127.1	297.3
(32)	-30° 3	0:02:56.5	-30°:35'3	170.0	320.6
(206) = K6.C.7 ✓		0:03:16	-30°:27'8 ✓	165.6	313.3
209 ✓		0:04:28	-30°:22'9 ✓	149.9	308.6
210 ✓		0:04:57	-30°:26'5 ✓	143.4	312.0
211 ✓		0:05:38	-30°:31'4 ✓	134.3	316.9
251 ✓		0:04:39	-30°:19'5 ✓	147.1	304.5

(31)	-30° 6823	23:55:47.9	-30° 37' 4	262.8	322.6
(24)	-29° 6926	01:02:03.1	-29° 42' 4	194.4	267.3
112 ✓		23:55:59	-30° 05' 0 ✓	260.0	290.2
103 ✓		23:56:32	-30° 10' 2 ✓	254.1	295.3
111 ✓		23:57:51	-30° 17' 8 ✓	239.9	302.9
109	<i>star</i>	~~23:56:42~~	~~-30° 25' 2~~	~~252.2~~	~~310.3~~
110 ✓		23:57:55	-30° 27' 9 ✓	239.0	313.0
208 ✓		23:58:16	-30° 18' 1 ✓	235.3	303.2
207 ✓		23:59:46	-30° 26' 7 ✓	218.9	311.8
(31)	-30° 6823	23:55:47.9	-30° 37' 9	262.8	322.6
(30)	-30° 6808	23:51:21.4	-30° 03' 9	320.7	289.8
46 ✓		23:52:48	-30° 25' 4 ✓	301.1	311.0
47 ✓		23:53:29	-30° 26' 1 ✓	292.4	309.7
50 ✓		23:53:30	-30° 20' 2 ✓	292.1	305.8
48 ✓		23:53:11	-30° 19' 3 ✓	296.6	304.9
49 ✓		23:52:21	-30° 16' 6 ✓	307.3	302.2
51 ✓		23:53:32	-30° 15' 1 ✓	291.8	300.7

52 ✓ 23:52:34 -30° 09' 6" ✓ 304.3 295.2

53 ✓ 23:53:18 -30° 04' 4" ✓ 295.0 290.0

(28) -30° 67' 9" 23:46:08.2 -30° 31' 3" 388.7 319.2

(29) -30° 68' 03" 23:48:32.9 -29° 57' 2" 357.7 283.8

1 ✓ 23:47:11 -30° 11' 1" ✓ 374.7 298.4

2 ✓ 23:48:14 -30° 06' 10" ✓ 361.6 292.3

3 ✓ 23:47:05 -30° 02' 6" ✓ 376.1 289.9

A 2185 B.D. +22° 510 3:28:36.4 +22° 26' 1" ✓ 49.3 58.9

3:33 +23° 8 B.D. +21° 489 3:31:31.7 +22° 01' 3" 89.7 33.8

3 3:29:58 +12° 12' 3" 68.1 45.0

B.D. +22° 526 3:33:43.1 +22° 32' 4" 119.7 63.3

B.D. +23° 481 3:30:36.6 +23° 27' 5" 77.3 121.6

6 3:31:03 +23° 58' 0" ^{measured} { 59.1
55.9 } 92.6 90.0

B.D. +23° 481 3:30:36.6 +23° 27' 5" ✓ 77.3 121.6

B.D. +24° 523 3:32:40.1 +24° 16' 3" 106.8 169.9

5 3:31:06 +24° 49' 1" { 98.9
99.4 } 91.8 143.0

B.D. +24° 523 3:32:40.1 +24° 16' 3" 106.8 169.9

B.D. +23° 496 3:37:46.7 +23° 21' 1" 177.2 112.4

7 3:35:24 +22° 41' 6" { 142.9
139.1 } 142.9 139.1

H 2188

5:30 -68°0

CPD -67° 356 4:52:35.6 -67° 18.7

2.0 174.4

CPD -66° 353 5:00:13.5 -66° 09.5

37.8 249.9

1 4:53:22 -66° 51.3 5.5 203.82 4:56:26 -66° 36.4 20.0 220.03 4:58:38 -66° 33.3 30.3 223.34 4:59:21 -66° 26.9 33.6 230.4

CPD -66° 353 5:00:13.5 -66° 09.5 37.8 249.9

CPD -65° 396 4:57:15.0 -65° 25.8 13.8 290.9

5 4:59:08 -66° 08.9 29.3 250.26 4:58:49 -65° 41.6 26.5 276.07 4:59:30 -65° 35.1 32.0 282.0

8 same position as CPD -64° 413 5:06:51.8 -64° 57.5

Already known.

14 " " " CPD -65° 444 5:13:19.5 -65° 34.4

-64° 413 5:06:51.8 -64° 57.5 65.0 320.4

-65° 446 5:14:03.5 -65° 48.8 120.5 278.5

13 5:11:26 -65° 48.6 100.7 278.79 5:07:55 -65° 49.1 72.9 278.4

10		<u>5:09:57</u>	<u>-65:22:6</u>	89.6	299.7
11		<u>5:10:25</u>	<u>-65:19:4</u>	92.9	302.3
12		<u>5:11:26</u>	<u>-65:16:8</u>	100.7	304.2
	-65° 446	5:14:03.5	-65:48:8	120.5	278.5
	-65° 465	5:23:32.5	-65:15:3	178.5	314.8
15		<u>5:14:13</u>	<u>-65:28:1</u>	121.3	300.8
16		<u>5:14:45</u>	<u>-65:20:8</u>	134.7	308.7
17		<u>5:20:07</u>	<u>-65:22:6</u>	157.5	306.8
18		<u>5:19:28</u>	<u>-65:28:7</u>	153.8	300.1
19		<u>5:21:21</u>	<u>-65:19:2</u>	165.1	310.4
20		<u>5:21:20</u>	<u>-65:33:5</u>	164.9	294.8
	-65° 465	5:23:32.5	-65:15:3	178.5	314.8
	-66° 431	5:32:58.8	-66:00:6	237.8	270.0
21		<u>5:24:06</u>	<u>-65:39:7</u>	181.9	290.4
22		<u>5:26:26</u>	<u>-65:39:5</u>	196.7	290.6
23		<u>5:30:45</u>	<u>-65:38:5</u>	223.3	291.3
24		<u>5:31:48</u>	<u>-65:35:2</u>	231.1	295.0
25		<u>5:31:31</u>	<u>-65:14:5</u>	228.5	315.5
26		<u>5:31:38</u>	<u>-65:18:8</u>	228.9	310.9

	-66° 431	5:32:58.8	-66°00'6	237.8	270.6
	-65° 492	5:42:15.5	-65°10'5	297.2	318.9
27		<u>5:34:53</u>	<u>-65°21'0</u>	249.8	308.4
28		<u>5:36:27</u>	<u>-65°20'6</u>	260.0	309.0
29		<u>5:38:49</u>	<u>-65°27'4</u>	275.0	302.0
30		<u>5:39:14</u>	<u>-65°41'7</u>	278.0	288.2
31	rather indefinite	<u>5:42:24</u>	<u>-65°26'6</u>	298.0	303.1
	-65° 492	5:42:15.5	-65°10'5	297.2	318.9
	-65° 514	5:51:55.0	-65°35'6	356.2	289.6
32		<u>5:43:56</u>	<u>-65°19'6</u>	307.3	308.1
33		<u>5:48:37</u>	<u>-65°20'7</u>	336.0	306.9
34		<u>5:49:06</u>	<u>-65°16'7</u>	339.3	311.6
35		<u>5:50:36</u>	<u>-65°21'0</u>	348.2	306.3
36		<u>5:49:46</u>	<u>-65°31'3</u>	343.0	294.1
	-65° 530	5:59:03.0	-65°23'7	397.0	302.0
	-66° 460	5:49:43.5	-66°04'5	340.4	261.3
37		<u>5:51:48</u>	<u>-65°54'4</u>	353.0	271.4
38		<u>5:51:35</u>	<u>-65°57'3</u>	351.5	268.5

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39		<u>5:54:55</u>	<u>-65°:53'2</u>	371.8	272.5
40		<u>5:59:00</u>	<u>-65°:33'3</u>	396.7	292.3
	CPD -66° 473	5:53:21.0	-66°:28'8	360.5	249.0
	CPD -67° 551	6:04:28.0	-67°:20'4	419.4	174.6
41		<u>5:58:28</u>	<u>-66°:37'1</u>	387.8	236.9
47		<u>5:55:07</u>	<u>-66°:48'8</u>	370.0	219.8
48		<u>5:55:51</u>	<u>-66°:59'5</u>	373.6	204.6
42		<u>6:01:51</u>	<u>-66°:57'3</u>	405.9	207.7
56		<u>6:03:07</u>	<u>-67°:00'6</u>	412.6	203.0
43		<u>6:03:52</u>	<u>-67°:06'5</u>	416.5	194.3
40		<u>5:57:19</u>	<u>-66°:31'7</u>	386.5	244.2
44		<u>6:00:45</u>	<u>-67°:06'8</u>	399.9	191.8
46		<u>5:56:38</u>	<u>-67°:13'0</u>	382.0	185.0
	-67° 551	6:04:28.0	-67°:22'6	419.4	174.6
	-68° 454	5:55:54.5	-68°:38'1	368.5	162.3
48		<u>6:01:07</u>	<u>-67°:35'8</u>	396.5	161.8
49		<u>6:01:38</u>	<u>-67°:43'2</u>	400.1	154.7
50		<u>6:00:54</u>	<u>-67°:44'7</u>	394.9	153.4

51 5:58:37 -67°55'4 394.3 143.2

52 5:59:44 -68°00'7 401.0 138.4

53 6:02:30 -67°54'6 406.0 144.0

St. Cluster 54 6:00:37 -68°05'2 393.2 134.2

St. Cluster 55 6:01:53 -68°21'7 401.5 118.3

58 CPD - 68°459 5:59:44.5 -68°31'1

-67°551 6:04:28.0 -67°22'6 419.4 174.6

-67°553 6:05:19.0 -67°41'3 421.1 154.6

57 6:05:47 -67°39'0 422.5 157.0

CPD - 68°454 5:55:54.5 -68°38'1 360.5 102.3

CPD - 68°471 6:07:18.5 -68°59'6 420.0 74.9

59 6:01:30 -68:39'2 388.5 101.0

CPD - 68°471 6:07:18.5 -68°59'6 420.0 74.9

-70°480 6:02:18.0 -70°00'9 386.9 17.3

60 6:05:29 -69°09'8 408.1 64.8

61 6:04:36 -69°34'7 402.1 41.8

62 6:07:03 -69°21'3 418.2 54.0

Sub

43

CPD -70° 480	6:02:18.0	-70°00'9	71.9	284.1
CPD -70° 471	5:56:03.2	-70°31'5	107.3	311.2

63	6:01:34	-70°00'0	76.4	283.3
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64	5:58:17	-70°25'0	94.0	305.0
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65	5:57:07	-70°20'2	100.5	300.9
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A 13019	-20°45'24	16:29:10.9	-20°51'3	64.2	235.7
16:30 -22'5	-21°43'94	16:31:51.2	-21°48'0	101.7	178.2

b globular cluster?	16:30:35	-21°11'7	84.0	214.5
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See & Miss Sawyer

<u>A 13035</u>	CPD -30° 35'30	12:37:25.9	-30°24'0	334.3	254.3
12:30 -32'5	CPD -29° 38'28	12:38:35.9	-30°07'4	353.8	267.8

2 stars: cf. A 14733

1	~~12:37:45~~	~~-30°13'4~~	340.0	261.4
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CPD -30° 35'19	12:32:15.8	-30°41'0	268.9	233.6
-30° 35'23	12:33:10.8	-30°38'3	280.4	241.0

defects {	3	12:32:27	-30°41'0	272.7	238.3
	4	12:32:23	-30°40'9	271.8	238.4

CPD -30° 35'30	12:37:25.9	-30°24'0	334.3	254.3
CPD -30° 34'85	12:40:18.9	-31°15'3	370.3	201.3

star 2	12:39:13	-30°59'0	356.8	224.4
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QD	-30° 35'08	12:27:15.3	-30° 44'1.3	201.8	236.3
	-30° 35'18	12:29:34.6	-30° 51'1.8	231.8	227.7
d		<u>12:28:06</u>	<u>-30° 49'4</u>	213.0	230.0
	-32° 32'61	12:27:14.5	-32° 38'0	201.3	120.6
	-32° 32'64	12:28:02.5	-32° 11'9	212.1	147.1
9		<u>12:27:41</u>	<u>-32° 23'2</u>	207.4	135.5
-32°	32'46	12:21:16.0	-32° 42'7	125.4	115.5
	-33° 32'56	12:23:13.9	-33° 24'7	150.6	72.3
8		<u>12:22:05</u>	<u>-32° 58'8</u>	136.0	99.0
-33°	32'56	12:23:13.9	-33° 24'7	150.6	72.3
	-34° 51'92	12:21:46.9	-34° 25'1	133.1	12.4
5		<u>12:22:24</u>	<u>-33° 52'5</u>	141.0	45.0
6		<u>12:22:03</u>	<u>-33° 49'9</u>	137.6	47.6
9		<u>12:22:28</u>	<u>-34° 12'6</u>	144.0	25.3
	-34° 51'92	12:21:46.9	-34° 25'1	308.8	288.9
	-34° 52'00	12:22:45.0	-34° 52'7	296.4	311.6
m		<u>12:22:06</u>	<u>-34° 31'0</u>	303.2	288.6

A13017	CPD -21° 59' 68	15:19:09.3	-21° 41' 3	363.1	186.7
15:10 -22.5	CPD -22° 60' 08	15:20:56.6	-22° 06' 3	387.4	158.3
3		15:20:17.5	-21° 54' 2	379.1	172.0
	CPD -23° 61' 76	15:20:25.3	-23° 42' 7	379.0	64.2
	CPD -23° 61' 91	15:23:15.0	-23° 21' 1	418.7	84.9
1		15:21:04	-23° 23' 9	387.9	82.1
	CPD -21° 58' 98	15:05:40.4	-21° 27' 9	173.5	201.4
	CPD -21° 58' 87	15:03:21.0	-21° 50' 1	141.0	178.9
17		15:04:57	-21° 39' 8	163.0	190.3
	CPD -21° 58' 98	15:05:40.4	-21° 27' 9	173.5	201.4
	CPD -21° 59' 35	15:10:34.1	-22° 01' 9	242.5	157.4
20		15:06:45	-21° 29' 2	188.2	199.3
4		15:08:17	-21° 41' 5	210.3	183.5
	CPD -21° 59' 35	15:10:34.1	-22° 01' 9	242.5	157.4
	CPD -22° 59' 40	15:11:58.4	-22° 12' 3	262.0	217.3
11		15:11:29	-21° 48' 9	255.4	173.4
	CPD -21° 58' 53	14:59:08.4	-21° 07' 7	81.2	221.1
	CPD -21° 58' 58	14:59:58.6	-21° 47' 0	93.7	180.9
9		14:59:17	-21° 18' 9	83.5	209.0
	BP -19° 40' 49	15:06:39	-20° 09' 5	187.6	280.1
	BP -20° 41' 84	15:09:54	-20° 41' 5	234.9	255.9
7		15:07:54	-20° 20' 0	203.0	272.0

CPD -24° 5592	15:11:04.2	-24°:19'.0	248.9	29.0
CPD -23° 6159	15:16:23.9	-23°:16'.0	323.2	92.0

I.C. 4038 d	15:15:26	-23°:18'.3	309.0	90.0
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? 5	15:13:18	-23°:27'.3	279.0	80.7
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N.C. 5903 15	15:12:49	-23°:32'.3	272.1	76.0
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N.C. 5998 16	15:12:28	-23°:43'.8	266.9	64.3
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14	15:14:38	-24°:06'.7	298.1	41.4
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CPD -23° 6090	15:04:00.5	-23°:36'.1	151.1	71.9
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CPD -23° 6119	15:08:41.1	-23°:53'.0	216.0	55.3
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18	15:06:00	-23°:41'.4	181.0	68.5
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CPD -23° 6119	15:08:41.1	-23°:53'.0	216.0	55.3
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CPD -22° 5950	15:06:31.1	-22°:58'.0	185.8	110.6
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8	15:07:11	-23°:02'.6	195.0	106.0
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19	15:07:55	-23°:17'.6	205.0	90.9
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CPD -22° 5950	15:06:31.1	-22°:58'.0	185.8	110.6
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CPD -21° 5935	15:10:34.1	-22°:01'.9	242.5	157.4
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10	15:09:19	-22°:19'.0	225.0	143.0
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A 13036	CPD -21°5689	14:14:08.2	-21°33'5	2.4	190.0
14:30 -22°	CPD -22°5747	14:15:52.5	-22°22'5	27.7	141.0
15a		14:14:32	-22°14'7	10.2	148.1
	CPD -21°5713	14:21:17.4	-21°13'0	113.1	212.0
	CPD -21°5727	14:23:31.7	-21°17'8	144.7	207.3
11a		14:23:02	-21°15'2	137.5	209.7
	CPD -21°5716	14:21:48.1	-22°06'6	120.6	158.0
	-22°5778	14:29:52.0	-22°30'2	163.6	134.2
C		14:22:25	-22°18'7	129.0	145.8
13		14:23:40	-22°29'5	147.0	135.5
	-21°5733	14:26:14.2	-21°53'7	182.9	171.3
	-22°5778	14:24:52.0	-22°30'2	163.6	134.2
11b		14:25:47	-21°55'9	177.0	169.2
	-21°5753	14:32:04.9	-21°36'4	269.6	188.2
	-21°5757	14:33:08.6	-22°06'4	279.4	157.9
= I.C. 4468	10	14:32:40	-21°55'7	273.9	168.3
	-21°5777	14:41:03.0	-21°44'8	390.8	177.7
	-21°5765	14:37:26.5	-21°06'9	340.4	217.1
3		14:38:43	-21°14'4	358.3	210.6
	-21°5781	14:43:23.6	-22°03'5	423.4	158.3
	-21°5777	14:41:03.0	-21°44'8	390.8	177.7
= I.C. 4501	4	14:41:40	-21°58'8	399.6	163.0
b		14:41:44	-21°51'1	400.5	170.7

-22° 58'16	14:35:56.7	-22° 49'2	307.8	114.1
-23° 59'84	14:41:45.2	-23° 46'19	397.7	54.4

5	14:37:38.5	-22° 53'0	332.2	110.2
6	14:38:11	-23° 00'9	342.4	101.7
7	14:39:30	-23° 21'9	362.7	80.0
8	14:40:15	-23° 46'8	379.8	54.7

-23° 59'62	14:34:18.2	-23° 40'2	294.3	62.9
-24° 58'49	14:31:58.8	-24° 28'3	261.6	14.6

9	14:33:53	-23° 55'6	288.3	47.6
15b	14:33:42	-24° 00'4	286.0	42.6

-24° 53'49	14:31:58.8	-24° 28'5	261.6	14.6
-23° 59'44	14:28:08.2	-23° 54'3	207.8	49.5

d	14:29:31	-24° 05'0	227.5	38.7
S. up.	-24° 53'25	14:24:10.1	-25° 05'7	278.4
	-24° 53'37	14:26:26.3	-25° 38'0	246.2

14.	14:25:46	-25° 16'6	255.1	311.1
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BD.	-20° 40'80	14:38:33	-20° 13'3	361.2
	-20° 40'81	14:39:57	-20° 41'2	378.3

-7.6.C.5734	14:39:16	-20° 26'5	370.1	256.8
-7.6.C.5742	14:39:18	-20° 28'3	370.4	254.3

Checked by S.F.M. New method. positions are means. 1 get plate back & correct error 49

13041 $-37^{\circ} 619.3$ $40^{\circ} 4.3$ $\begin{cases} 14:37:03.6 \\ 14:43:47.9 \end{cases}$ $\begin{cases} -37^{\circ} 06.9 \\ -38^{\circ} 07.1 \end{cases}$ 7.8 $\begin{cases} 319.8 \\ 398.6 \end{cases}$ 6.2 $\begin{cases} 158.6 \\ 95.4 \end{cases}$

$\checkmark 15$ $14:39:34.9$ $-37^{\circ} 07.7$ 349.3 157.7
 $\checkmark C$ $14:41:59.1$ $-37^{\circ} 26.6$ 377.4 139.1
 not a neb. $\times$ $14:41:09.9$ $-37^{\circ} 03.3$ 367.8 99.4

$-35^{\circ} 633.0$ $17^{\circ} 5.4$ $\begin{cases} 14:36:39.9 \\ 14:39:35.3 \end{cases}$ 37.0 $\begin{cases} -36^{\circ} 05.1 \\ -36^{\circ} 42.1 \end{cases}$ 45.4 $\begin{cases} 305.8 \\ 351.2 \end{cases}$ 38 $\begin{cases} 221.2 \\ 182.7 \end{cases}$

$\checkmark 14$ $14:39:01.7$ $-36^{\circ} 36.3$ 342.5 188.7
 not a neb. $\times$ $14:38:01.8$ $-36^{\circ} 30.3$ 327.0 195.0
 $\checkmark 9$ $14:37:00.2$ $-36^{\circ} 08.8$ 311.0 217.3
 $\checkmark 10$ $14:37:21.2$ $-36^{\circ} 10.5$ 316.5 215.6

$-34^{\circ} 615.7$ 223.2 $\begin{cases} 14:33:00.3 \\ 14:36:43.5 \end{cases}$ 5 $\begin{cases} -34^{\circ} 48.9 \\ -34^{\circ} 31.4 \end{cases}$ 45.0 $\begin{cases} 275.0 \\ 320.0 \end{cases}$ 16.9 $\begin{cases} 298.2 \\ 315.1 \end{cases}$

$\checkmark 4$ $14:34:17.1$ $-34^{\circ} 41.4$ 290.5 305.4
 $\checkmark 5$ $14:34:00.3$ $-34^{\circ} 43.9$ 293.9 303.9
 Correction by S.F.M.
 $\checkmark 6$ $14:36:29.6$ $-34^{\circ} 39.1$ 317.2 307.7
 73.1 74.0

$-35^{\circ} 628.6$ 295.4 $\begin{cases} 14:27:35.6 \\ 14:32:31.0 \end{cases}$ $\begin{cases} -35^{\circ} 49.8 \\ -37^{\circ} 02.9 \end{cases}$ 59.2 $\begin{cases} 205.8 \\ 265.0 \end{cases}$ $\begin{cases} 237.4 \\ 163.4 \end{cases}$

I.C. 4451 7 $14:28:31.0$ $-35^{\circ} 50.4$ 216.9 236.3
 I.C. 4464 8 $14:31:39.1$ $-36^{\circ} 27.1$ 254.6 199.6
 not a neb. $\times$ $14:29:56.3$ $-36^{\circ} 36.6$ 234.0 190.0
 12 $14:31:13.1$ $-36^{\circ} 56.7$ 249.4 168.7

			40.7	46.6
	-37° 6193	180.1 { 14:37:03.6	-37° 06'9	36.8 { 319.8 { 158.6
	-37° 6171	14:34:02.9	-37° 47'6	283.0 { 118.0
✓ 13		14:35:17.1	-37° 07'6	298.1 158.0
not a sub.		14:34:25.0	-37° 41'9	287.5 123.6
			20.6	20.6
	-37° 6122	14:27:01.1	-37° 49'3	199.3 116.7
	-38° 5887	14:28:39.5	-38° 09'9	218.6 76.1
not a sub.		14:28:14.5	-38° 01'6	213.7 104.9
			76.0	76.7
	-35° 6286	152.9 { 14:27:35.6	-35° 49'8	30.4 { 205.8 { 237.4
	-36° 6449	14:25:02.7	-37° 05'8	175.4 { 160.7
✓ 16		14:26:02.1	-36° 29'4	187.2 197.4
			29.6	31.3
	-36° 6449	14:25:02.7	-37° 05'8	175.4 160.7
	-37° 6077	14:19:44.0	-37° 35'4	112.0 129.4
I.C. 4421	17	14:22:22	-37° 08'6	143.4 157.7
	a	14:22:21	-37° 34'6	129.1 130.2
		14:21:26		
		14:21:25		
			10.6	19.3
Something over in declination? comp stars?	-38° 5810	14:15:40.9	-38° 13'4	55.9 { 64.6 { 98.0
	-38° 5853	14:20:49.4	-38° 24'0	120.5 { 70.7
✓ 1		14:17:52	-38° 14'2	88.5 88.3
2		14:18:59.1	-36° 16'9	100.5 88.3
			68.3	64.
	-38° 5779	14:11:18.9	-38° 50'7	112.5 { 413.3 { 249.8
	-39° 6309	14:20:41.3	-39° 59'0	300.8 { 313.8
I.C. 4389	B	14:13:10.7	-39° 55'7	391.0 310.8

not sub.	3	~~14:16:17.5~~	~~-39°50'5~~	353.6	305.8
	8	~~14:12:48~~	~~-39°19'8~~	395.4	286.4
not sub.	e	~~14:16:28.1~~	~~-38°52'0~~	351.4	251.0
" "	f	~~14:16:29.~~	~~-38°58'9~~	351.5	257.5
" "	g	~~14:17:10.1~~	~~-38°50'3~~	343.0	249.5
✓w		~~14:20:12.1~~	~~-39°52'3~~	306.6	307.5

-39°6'30.9	362.4	14:20:41.3	65.3	-39°59'0	300.8	66.8	(313.8)
-38°58'81	362.4	14:26:43.7		-38°53'7	231.8		(247.0)

not sub.	14	25:50.4	-39°06'1	241.9	259.7
	14	25:39.5	-39°20'7	244.0	274.6
	14	22:15.8	-39°16'2	282.8	270.0
	14	23:06.8	-39°52'9	273.1	307.7

-39°6'36.5	418.5	14:28:36.4	38.0	-40°05'4	209.3	317.0
-39°6'40.3	418.5	14:35:34.9		-39°27'4	128.2	280.9

B	Can throw the error	14:29:01.2	-39°55'7	203.5	307.8
	C.D. Basalt type	14:29:06.2			
	undisturbed measurement				

19	14	14	53	-38	4.4	-38 5210
	14	14	54	-38	4.4	-36 6323
	14	14	54	-38	4.4	14 15 41 -38 13.4
	$\Delta\alpha = 121''$	$\Delta\delta = 78.1'$	14	13	40	-36 55.3
	= 26.2mm.	= 77.9mm.				

20	14	14	12	-37	09.3
	14	14	12	-37	09.3
	14	14	12	-37	9.3

p.f.m.

13039

:30-32.5

*must be
done again*

CRD -29° 39' 59"

-31° 38' 29"

14:14:33.5 -29° 39' 15"

14:27:39.1 -31° 57' 15"

785.6

143.0

172.6

141.4

3.

14:16:58.7

-31° 51' 0"

31.9

135.0

14:16:59.1

-31° 51' 0"

140.7

6.4

14:16:58.9

-31° 51' 0"

13

14:21:29.4

-30° 54' 5"

91.4

79.1

14:21:29.7

-30° 54' 5"

81.2

62.3

14:21:29.5

-30° 54' 5"

12

14:22:45.6

-31° 13' 8"

108.1

98.2

14:22:45.6

-31° 13' 8"

64.5

43.2

14:22:45.6

-31° 13' 8"

9.

14:24:40.1

-31° 38' 9"

133.1

123.0

14:24:39.3

-31° 38' 9"

39.5

18.4

14:24:39.7

-31° 38' 9"

14

14:24:31.8

-30° 37' 9"

144.5

62.7

14:24:31.2

-30° 37' 9"

28.1

78.7

14:24:31.5

-30° 37' 9"

15

14:26:43.1

-29° 38' 8"

160.2

4.3

14:26:42.6

-29° 38' 8"

12.4

137.1

14:26:42.8

-29° 38' 8"

25

12:27:01.0

-31° 15' 8"

164.0

99.9

12:27:00.0

-31° 15' 5"

8.6

41.5

12:27:00.5

-31° 15' 6"

26	12:26:30.2	31° 14' 5"	170.5	98.8
	12:26:29.5	31° 14' 4"	2.1	42.6
	<u>12:26:29.8</u>	<u>31° 14' 4"</u>		

The camp
stars are
too far
apart to
be repeated
with accuracy
1

C.P.D. - 33°	3603	14:13:04.3	- 33° 12' 3"	
31°	3829	14:27:39.1	- 31° 57' 5"	
	874.8		74.8	183.9
		14:14:37.1	- 32° 53' 4"	19.5
		14 14 36.9	- 32° 53' 4"	164.4
		<u>14:14:37.0</u>	<u>- 32° 53' 4"</u>	80.2
				20.3
				59.9

41			38.1	47.5
			195.8	32.7

4.			76.6	51.7
			107.3	28.5

e			93.8	59.3
			90.1	35.9

8			130.0	16.1
			53.9	64.1

9			116.5	24.7
			67.4	55.5

10

106.9

31.3

77.0

48.9

11

113.2

46.9

70.7

33.3

f

118.9

62.8

65.0

17.4

16

149.9

73.3

34.0

6.9

see p. 52

-30 38 38 14:18:51.1 -30° 46.6

-31° 38 18 14:22:49.4 -31° 17.7

238.3 31.1

52.0

30.4

13

14:21:19.2 -30° 54.6

32.3

7.8

14:21:19.0 -30° 54.6

19.7

22.6

14:21:19.1 -30° 54.6

12

-30 38 41 14:19:54.1 -31° 02.9

-31° 38 18 14:22:49.4 -31° 17.7

175.3 14.6

37.8

14.3

14:22:37.6 -31° 14.6

36.2

11.5

14:22:31.9 -31° 14.6

2.6

2.8

14:22:34.7 -31° 14.6

13a -30° 3844 14:19:54.1 $-31^{\circ}02'9$
 -30° 3846 14:22:46.2 $-30^{\circ}48'9$
 2 stars: of A15376 172.1 14.0 36.8 14.9

14:21:19.3 $-30^{\circ}55'0$ 18.2 8.4
 14:21:19.2 $-30^{\circ}55'0$ 18.6 6.5
 14:21:19.3 $-30^{\circ}55'0$

13b -31° 3804 14:20:15.4 $-31^{\circ}19'7$
 star: of A15376 -31° 3844 14:22:19.2 $-30^{\circ}43'6$
 123.8 36.1 26.1 37.2

14:21:34.2 $-30^{\circ}55'1$ 14.5 25.4
 14:21:24.2 $-30^{\circ}55'1$ 11.6 11.8
 14:21:29.0 $-30^{\circ}55'1$

See p. 53. -33° 3603 14:13:04.3 $-33^{\circ}12'3$
 -32° 3611 14:15:40.3 $-32^{\circ}43'8$
 156.0 28.5 32.3 30.0

1 14:14:38.2 $-32^{\circ}53'1$ 19.4 20.2
 14:14:37.9 $-32^{\circ}53'1$ 12.9 9.8
 14:14:38.0 $-32^{\circ}53'1$

-31° 3786 14:15:02.2 $-31^{\circ}22'2$
 -32° 3620 14:17:49.2 $-32^{\circ}08'0$
 167.0 45.8 37.3 45.1

3 14:16:13.8 $-31^{\circ}47'8$ 16.0 25.2
 14:16:13.8 $-31^{\circ}47'8$ 21.3 19.9
 14:16:13.8 $-31^{\circ}47'8$

	-32° 36 11	14:15:40.3	-32° 43' 8		
	-32° 36 20	14:17:49.2	-32° 08' 0		
		128.9	35.8	26.2	36.9
		14:16:08.8	-32° 26' 5	5.8	17.8
		14:16:09.2	-32° 26' 5	20.4	19.1
41		14:16:09.0	-32° 26' 5		
	-32° 36 20	14:17:49.2	-32° 08' 0		
	-32° 36 26	14:19:34.6	-32° 31' 1		
		105.4	23.1	22.9	22.8
4		14:19:13.0	-32° 24' 0	18.2	15.8
		14:19:13.0	-32° 24' 0	4.7	7.0
		14:19:13.0	-32° 24' 0		
	-31° 38 28	14:28:07.3	-31° 30' 8		
	-31° 38 31	14:29:30.4	-31° 59' 9		
		83.1	29.1	18.0	29.2
24		14:28:36.4	-31° 39' 2	6.3	8.4
		14:28:36.4	-31° 39' 2	11.7	20.8
		14:28:36.4	-31° 39' 2		
	-30° 38 57	14:25:56.8	-31° 06' 5		
	-31° 38 28	14:28:07.3	-31° 30' 8		
		70.5	24.3	28.3	24.6
25		14:26:31.2	-31° 16' 4	13.8	10.0
		14:27:31.2	-31° 16' 4	14.5	14.6
		14:27:31.2	-31° 16' 4		
26		14:27:47.1	-31° 15' 0	20.2	8.6
		14:27:47.3	-31° 15' 0	8.1	16.0
		14:27:47.2	-31° 15' 0		

-30° 38'46	14:22:46.2	-30° 48'9		
-30° 38'55	14:25:54.9	-30° 28'4		
	188.7	20.5	40.6	21.2

14.	14:25:29.4	-30° 37'3	35.1	12.0
	14:25:29.2	-30° 37'3	5.5	9.2

	14:25:29.3	-30° 37'3		
-29° 39'90	14:25:07.7	-29° 29'6		
-29° 39'98	14:28:20.2	-30° 00'4		
	192.5	30.8	42.3	31.8

15	14:26:44.2	-29° 41'2	21.2	12.0
	14:26:44.2	-29° 41'2	21.1	19.8
	14:26:44.2	-29° 41'2		

-32° 36'26	14:19:34.6	-32° 31'1		
-32° 36'39	14:21:51.3	-32° 11'3		
	136.7	19.8	28.8	20.7

<i>star</i> e	14:20:22.6	-32° 23'4	10.0	8.1
	14:20:22.0	-32° 23'6	18.8	12.6
	14:20:22.3	-32° 23'5		

-29° 40'16	14:34:27.9	-30° 06'7		
-30° 38'98	14:39:10.8	-30° 55'6		
	282.9	48.9	60.5	50.0

34	14:37:35.4	-30° 16'8	20.4	10.5
	14:37:35.4	-30° 16'9	40.1	40.1
	14:37:35.4	-30° 16'8		

35	14:36:31.3	-30°:29'3	26.4	23.2
	14:36:31.4	-30°:29'1	34.1	27.4
	<u>14:36:31.3</u>	<u>-30°:29'2</u>		

27	14:36:36.0	-30°:18'0	27.4	11.7
	14:36:36.1	-30°:18'6	33.1	38.9
	<u>14:36:36.0</u>	<u>-30°:18'0</u>		

32	14:36:57.0	-30°:36'0	31.9	30.3
	14:36:56.4	-30°:36'0	29.6	20.3
	<u>14:36:56.7</u>	<u>-30°:36'0</u>		

36	14:38:28.7	-30°:43'4	51.5	38.0
	14:38:28.7	-30°:43'4	9.0	12.6
	<u>14:38:28.7</u>	<u>-30°:43'4</u>		

badly placed: repeat with another pair of stars	33	14:36:46.3	-30°:54'9	29.6	49.9
		14:36:46.3	-30°:54'9	30.9	0.7
		<u>14:36:46.3</u>	<u>-30°:54'9</u>		

see p. 66

-30° 3896	14:40:36.8	-30°:25'2		
-29° 4042	14:42:34.5	-30°:01'6		
	117.7	23.6	26.3	23.2

37	14:41:27.4	-30°:13'4	11.3	11.6
	14:41:27.3	-30°:13'4	15.0	11.6
	<u>14:41:27.3</u>	<u>-30°:13'4</u>		

-30° 3874	14:31:15.4	-30°:50'5		
-31° 3848	14:33:16.1	-31°:17'1		
	120.7	26.6	25.8	26.0

28	14:32:38.2	-30°55'9	11.7	5.3
	14:32:38.2	-30°55'9	14.1	20.7
	<u>14:32:38.2</u>	<u>-30°55'9</u>		

h	14:32:10.2	-31°09'9	8.1	19.0
	14:32:10.1	-31°09'9	17.7	7.0
	<u>14:32:10.1</u>	<u>-31°09'9</u>		

-31°38'68	14:39:45.2	-31°23'6		
-31°38'77	14:41:51.3	-31°49'6		
	126"1	26'0	26.4	26.9

38	14:40:48.8	-31°30'9	13.3	7.5
	14:40:48.7	-31°30'8	13.1	19.4
	<u>14:40:48.7</u>	<u>-31°30'9</u>		

-32° 3651	14:24:03.7	-32°18'8		
-31° 3823	14:25:56.0	-32°00'3		
	112"3	18'5	23.8	18.8

16.	14:24:56.5	-32°02'9	11.2	16.2
	14:24:56.6	-32°02'9	12.6	2.6
	<u>14:24:56.5</u>	<u>-32°02'9</u>		

-32°3'639	14:21:51.3	-32°11'3		
-32° 3651	14:24:03.7	-32°18'8		
	132"4	7"5	28.3	7.4

f	14:22:33.4	-32°13'2	9.0	1.9
	14:22:33.5	-32°13'2	19.3	5.5
	<u>14:22:33.4</u>	<u>-32°13'2</u>		

60

-32° 36 48	14:23:28.0	-32° 37' 2		
-32° 36 39	14:23:51.3	-32° 11' 3		
	96.7	25.9	21.2	26.0
	14:23:14.3	-32° 19' 1	3.0	18.2
	14:23:14.3	-32° 19' 1	18.2	7.8
	14:23:14.3	-32° 19' 1		

11

-33° 36 27	14:20:54.7	-33° 16' 4		
-32° 36 48	14:23:28.0	-32° 37' 2		
	153.3	-39' 2	32.1	40.1

10

14:21:27.2	-32° 44' 7	6.8	32.4
14:21:27.3	-32° 44' 7	25.3	7.7
14:21:27.2	-32° 44' 7		

9

14:22:15.9	-32° 51' 7	17.0	25.3
14:22:15.9	-32° 51' 7	15.1	14.8
14:22:15.9	-32° 51' 7		

8

I.C. 4430

14:23:20.8	-33° 00' 1	30.6	16.7
14:23:20.8	-33° 00' 1	1.5	23.4
14:23:20.8	-33° 00' 1		

-32° 36 79	14:30:52.2	-33° 06' 3		
-32° 36 87	14:33:13.9	-32° 56' 8		
	141.7	9.5	30.1	9.4

30

14:32:08.5	-33° 01' 3	16.2	5.0
14:32:08.4	-33° 01' 2	13.9	4.4
14:32:08.4	-33° 01' 2		

-31° 38 34	14:29:30.5	-31° 59' 8		
-32° 36 84	14:32:16.8	-32° 23' 6		
	165.3	23.8	35.2	23.7

29

14:30:43.6	-32°04'5	15.6	4.7
14:30:44.3	-32°04'5	19.6	19.0
<u>14:30:39.9</u>	<u>-32°04'5</u>		

-32° 36'84

14:32:16.8 -32°:23'6

-33° 36'77

14:36:13.9 -33°:12'3

236.5

48.7

49.6

49.7

43

14:33:25.6 -32°:37'6 14.3 13.6

14:33:24.9 -32°:37'7 35.3 36.1

14:33:25.0 -32°:37'6

44

14:34:35.1 -32°:52'6 29.0 36.9

14:34:35.0 -32°:52'1 20.6 12.8

14:34:35.0 -32°:52'1

4

14:34:38.4 -32°:52'6 29.7 18.6

14:34:38.4 -32°:53'2 19.9 30.1

14:34:38.4 -32°:52'8

31

14:35:36.6 -32°:53'0 41.9 30.0

14:35:36.6 -32°:53'0 7.7 19.7

14:35:36.6 -32°:53'0

-32° 39'94

14:35:40.0 -32°:41'3

-32° 39'99

14:36:55.1 -32°:22'7

75.1

18.6

16.2

18.4

42

14:36:33.3 -32°:37'5 11.5 3.8

14:36:33.3 -32°:37'5 4.7 14.6

14:36:33.3 -32°:37'5

	-33° 3682	14:37:29.5	-33° 21' 0		
	-32° <u>3713</u>	14:39:48.1	-33° 05' 3		
		138.6	15.7	29.6	15.5
m		14:39:11.1	-33° 16' 2	7.9	4.7
		14:39:11.1	-33° 16' 2	21.7	10.8
		<u>14:39:11.1</u>	<u>-33° 16' 2</u>		
	-33° 3695	14:41:38.9	-33° 16' 5		
	-32° 3726	14:42:52.4	-32° 50' 6		
		73.5	25.9	16.4	25.7
6		14:41:10.7	-33° 02' 0	7.1	14.4
		14:41:10.7	-33° 02' 0	9.3	11.3
		<u>14:41:10.7</u>	<u>-33° 02' 0</u>		
	-33° 3641	14:26:69.9	-33° 38' 3		
	-33° 3654	14:29:04.1	-33° 10' 5		
		174.2	27.8	36.5	28.4
17		14:27:54.9	-33° 19' 7	14.5	19.0
		14:27:54.9	-33° 19' 7	22.0	9.4
		<u>14:27:54.9</u>	<u>-33° 19' 7</u>		
18		14:27:44.4	-33° 21' 9	16.7	16.8
		14:27:44.4	-33° 21' 9	19.8	11.6
		<u>14:27:44.4</u>	<u>-33° 21' 9</u>		

19	14:28:02.1	-33°26.1	23.5	12.5
	14:28:02.1	-33°26.1	13.0	15.9
	<u>14:28:02.1</u>	<u>-33°26.1</u>		

-33°36.41	14:26:09.9	-33°38.3		
-34°6.19	14:27:09.2	-34°16.6	12.5	38.5
	59.3	38.3		
20	14:26:26.0	-33°52.9	3.4	14.7
	14:26:25.9	-33°52.9	9.1	23.8
	<u>14:26:26.0</u>	<u>-33°52.1</u>		

-33°36.50	14:27:33.2	-33°33.0		
-33°36.55	14:29:13.3	-33°56.5	21.2	23.5
	100.1	23.5		

22	14:28:56.8	-33°42.2	5.0	9.2
22	14:28:56.8	-33°42.2	16.2	14.3
	<u>14:28:56.8</u>	<u>-33°42.2</u>		

23	14:28:06.7	-33°42.7	14.1	9.7
	14:28:06.7	-33°42.7	7.1	13.8
	<u>14:28:06.7</u>	<u>-33°42.7</u>		

-34°60.95	14:23:42.3	-34°19.2		
-33°36.41	14:26:09.9	-33°38.3		
	147.6	40.9	30.3	41.7

7	14:24:12.5	-33°47.8	6.2	32.0
	14:24:12.6	-33°47.8	24.1	9.7
	<u>14:24:12.5</u>	<u>-33°47.8</u>		

d	14:24:50.5	-34°01.5	14.0	18.0
	14:24:50.5	-34°01.5	16.3	23.7
	<u>14:24:50.5</u>	<u>-34°01.5</u>		

2)	14:25:24.1	-33°56.6	20.9	23.1
	14:25:24.1	-33°56.5	9.4	18.6
	<u>14:25:24.1</u>	<u>-33°56.5</u>		

see h. 61

41

$-32^{\circ} 36' 87$ $14:33:13.9$ $-32^{\circ} 56' 8$
 $-33^{\circ} 36' 77$ $14:36:13.2$ $-33^{\circ} 12' 4$

2

$-33^{\circ} 36' 15$ $14:15:53.3$ $-34^{\circ} 05' 7$
 $-33^{\circ} 36' 24$ $14:18:55.1$ $-33^{\circ} 45' 1$
 $181^{\circ} 8$ $20' 6$ 27.3 21.6

 $14:17:47.3$ $-33^{\circ} 50' 3$ 13.9 16.1
 $14:17:47.3$ $-33^{\circ} 50' 3$ 23.4 5.5
 $14:17:47.3$ $-33^{\circ} 50' 3$

a

$-33^{\circ} 36' 24$ $14:18:55.1$ $-33^{\circ} 45' 1$
 $-34^{\circ} 60' 95$ $14:23:42.3$ $-34^{\circ} 19' 2$
 $287^{\circ} 2$ $34' 1$ 60.6 33.6

 $14:19:42.5$ $-34^{\circ} 00' 3$ 10.0 15.0
 $14:19:42.3$ $-34^{\circ} 00' 3$ 50.6 18.6
 $14:19:42.3$ $-34^{\circ} 00' 3$

5

5

$14:21:34.0$ $-33^{\circ} 56' 1$ 33.5 10.8
 $14:21:33.8$ $-33^{\circ} 56' 1$ 27.1 22.8
 $14:22:33.9$ $-33^{\circ} 56' 1$

6

$14:22:30.1$ $-34^{\circ} 15' 6$ 45.3 30.1
 $14:22:29.7$ $-34^{\circ} 15' 7$ 15.3 3.5
 $14:22:29.8$ $-34^{\circ} 15' 7$

-34° 6119	14:27:09.2	-34° 116' 6		
-34° 6126	14:28:49.1	-34° 41' 6		
	99".9	25'.0	20.9	25.2

b

14:28:07.5	-34° 27' 8	8.7	11.3
14:28:07.5	-34° 27' 8	12.2	13.9
14:28:07.5	-34° 27' 8		

-34° 6145	14:31:29.7	-34° 11' 2		
-33° 3669	14:32:31.1	-33° 52' 7		
	61".4	18'.5	13.2	18.4

very hard to
measure
on graphs -40

14:32:06.4	-34° 05' 2	7.9	6.0
14:32:06.4	-34° 05' 2	5.3	12.4
14:32:06.4	-34° 05' 2		

-34° 6157	14:33:09.3	-34° 48' 9		
-34° 6165	14:36:12.4	-34° 18' 9		
	183".1	30'.0	38.7	28.9

23

39 correction by S.F.M.

14:34:59.1	-34° 41' 3	15.5	7.3
14:34:59.1	-34° 41' 3	23.2	21.6
14:34:59.1	-34° 41' 3		

24

24

nos 445

on p. 49

45

14:34:38.7	-34° 43' 0	18.9	5.7
14:34:38.7	-34° 43' 0	19.8	23.2
14:34:38.7	-34° 43' 0		

sep. 58

33

 $-30^{\circ}38'87''$ $14^{\circ}36'22.5'' - 30^{\circ}59'9''$ $-30^{\circ}38'93''$ $14^{\circ}38'10.3'' - 30^{\circ}27'0''$ $107''.8$ $32'.9$ 23.6 32.7 $14^{\circ}36'45.8'' - 30^{\circ}55'4''$ 5.1 4.5 $14^{\circ}36'45.6'' - 30^{\circ}55'4''$ 18.5 28.1 $14^{\circ}36'45.7'' - 30^{\circ}55'4''$

A 13045

 $-51^{\circ}70'16''$ $14^{\circ}31'03.2'' - 52^{\circ}01'2''$ $14^{\circ}30'52'.5$ $-51^{\circ}70'32''$ $14^{\circ}33'07'.2 - 51^{\circ}37'.9$ $74''.0$ $23'.3$ 11.7 23.2

1

 $14^{\circ}32'24'.2 - 51^{\circ}47'.7$ 4.9 13.4 $14^{\circ}32'24.2 - 51^{\circ}47'.7$ 6.8 9.8 $14^{\circ}32'24.2 - 51^{\circ}47'.7$ $-53^{\circ}59'24''$ $14^{\circ}08'55.8'' - 53^{\circ}25'8''$ $-53^{\circ}59'34''$ $14^{\circ}10'16.2'' - 53^{\circ}22'.8$ $73''.2$ $3''.0$ 12.2 3.8 two stars

a

 $14^{\circ}09'15.8'' - 53^{\circ}24'.6$ 3.8 1.5 $14^{\circ}09'15.7'' - 53^{\circ}24'.4$ 8.4 2.3 $14^{\circ}09'15.8'' - 53^{\circ}24'.2$

A 13065 -47° 7762

16:30 -47.5 -47° 7772

16:25:59.8 -48° 03'2

16:27:28.9 -47° 46'6

89.1

16.6

14.7

16.4

N.B.C.

(1)

16:26:38.6 -47°56'3 6.4 8.8

16:26:38.6 -47°56'3 8.3 9.6

16:26:38.3 -47°56'3

N.B.C.

(2)

16:27:09.5 -47°51'9 3.2 11.2

16:27:09.5 -47°51'9 11.5 5.2

16:27:09.5 -47°51'9

N.B.C.

-48° 8658

16:32:00.1 -48° 51'1

-48° 8736

16:34:48.7 -48° 22'2

nebula covers

168.6

28.9

28.5

28.5

very large area &

is very diffuse (3)

16:33:23.0 -48°35'9 14.0 15.0

16:33:22.9 -48°35'9 14.5 13.5

16:33:22.9

-45° 8128

16:39:47.5 -45° 59'3

-46° 8240

16:41:17.2 -46° 09'5

double star

89.7

10.2

15.1

10.8

(a)

16:40:49.9 -46°03'9 10.5 4.9

16:40:49.9 -46°03'9 4.6 5.9

16:40:49.9 -46°03'9

A 6604

 $-67^{\circ} 39' 67''$

23:23:26.0

 $-67^{\circ} 46' 1''$ 3:51 $-67^{\circ} 4'$ $-67^{\circ} 39' 68''$

23:29:47.0

 $-67^{\circ} 08' 9''$

Companion stars

381.0

37.2

33.0

40.7

first four between

21

23:29:14.7

 $-67^{\circ} 13' 8''$

30.2

35.4

23:29:14.7

 $-67^{\circ} 13' 7''$

2.8

5.3

23:29:14.7 $-67^{\circ} 13' 7''$

22

23:29:24.6

 $-67^{\circ} 18' 7''$

31.0

30.0

23:29:23.9

 $-67^{\circ} 18' 7''$

2.0

10.7

23:29:23.9 $-67^{\circ} 18' 7''$

27

23:28:38.7

 $-67^{\circ} 26' 7''$

27.1

21.7

23:28:39.6

 $-67^{\circ} 26' 7''$

5.9

19.5

23:28:38.9 $-67^{\circ} 26' 7''$ $-67^{\circ} 39' 67''$

23:23:26.0

 $-67^{\circ} 46' 1''$ $-68^{\circ} 35' 72''$

23:25:58.0

 $-68^{\circ} 28' 4''$

152.0

42.3

18.7

40.9

26

22:25:38.5

 $-68^{\circ} 07' 5''$

16.3

20.7

22:25:38.5

 $-68^{\circ} 07' 5''$

2.4

20.2

22:25:38.5 $-68^{\circ} 07' 5''$

Two stars

 $-68^{\circ} 35' 72''$

23:25:58.0

 $-68^{\circ} 28' 4''$ $-67^{\circ} 39' 71''$

23:32:17.2

 $-67^{\circ} 35' 9''$

379.2

52.5

31.0

55.7

I.C. 5335-

23

23:29:59.0

 $-67^{\circ} 56' 3''$

19.7

33.9

23:29:59.0

 $-67^{\circ} 56' 6''$

11.3

21.8

23:29:59.0 $-67^{\circ} 56' 5''$

25	23:25:57.8	-68°09'2	14.7	20.9
	23:28:57.9	-68°08'9	16.3	34.8
	<u>23:28:57.8</u>	<u>-68°09'1</u>		

-67°39'74	23:35:49.5	-67°15'0		
-68°35'77	23:36:23.5	-68°19'5		
	34.0	64.5	14.6	54.6

24	23:35:57.9	-67°42'5	3.6	23.3
	23:55:57.9	-67°42'5	11.0	31.3
	<u>23:55:57.9</u>	<u>-67°42'5</u>		

-68°35'77	23:36:23.5	-68°19'5		
-68°35'78	23:37:51.3	-68°11'9		
	87.8	7.6	7.8	8.3

17	23:36:55.0	-68°14'7	2.8	5.2
	23:36:55.0	-68°14'7	5.0	3.1
	<u>23:36:55.0</u>	<u>-68°14'7</u>		

-68°35'78	23:37:51.3	-68°11'9		
-68°35'80	23:41:03.7	-68°36'6		
	192.4	24.7	19.3	24.6

16	23:38:18.2	-68°16'0	2.7	4.1
	23:38:18.2	-68°16'2	16.6	20.5
	<u>23:38:18.2</u>	<u>-68°16'0</u>		

-68° 3581	23:41:56.7	-68° 45' 4		
-68° 3584	23:44:06.0	-68° 29' 7		
	129' 3	15.7	11.4	16.0

✓ 15	23:43:51.2	-68° 39' 4	10.1	6.1
	23:43:51.3	-68° 39' 4	1.3	9.9
	23:43:51.3	-68° 39' 4		

-68° 3587	23:50:34.0	-68° 36' 7		
-68° 3589	23:51:44.5	-68° 09' 2		
	70' 5	27.5	6.6	27.9

✓ 9	23:50:43.6	-68° 26' 7	9	10.1
	23:50:43.7	-68° 26' 7	5.7	17.8
	23:50:43.6	-68° 26' 7		

-68° 3595	23:57:31.0	-68° 11' 5		
-68° 3597	00:00:17.0	-68° 22' 3		
	166"	10.8	15.2	11.6

✓ 29	23:58:34.4	-68° 14' 1	5.8	2.8
	23:58:34.4	-68° 14' 1	9.4	8.8
	23:58:34.4	-68° 14' 1		

Mangel

2358-6813.8

			✓ 7.6	9.5
✓ 8	23:58:54.0	-68° 20' 3	7.6	2.1

Mangel

2358-6820.4

	23:58:54.0	-68° 20' 3		
	23:58:54.0	-68° 20' 3		

$-68^{\circ} 35.97$ $00:00:17.0$ $-68^{\circ} 22.3$
 $-68^{\circ} 1$ $00:04:52.0$ $-68^{\circ} 00.4$
Mengel 275.0 21.9 26.6 21.6
 $68.16.2$
 $0002-1629.1$

4

$0:02:45.9$ $-68^{\circ} 16.3$ 14.4 5.8
 $0:02:45.1$ $-68^{\circ} 16.3$ 12.2 15.2
 $0:02:45.1$ $-68^{\circ} 16.3$

badly placed, $-68^{\circ} 1$ $0:04:52.0$ $-68^{\circ} 00.4$
but no better $-68^{\circ} 4$ $0:11:14.5$ $-68^{\circ} 27.3$
 382.5 26.9 33.9 29.7

3

Mengel
 $0007-6813.8$
 $0:07:57.1$ $-68^{\circ} 13.7$ 16.4 14.7
 $0:07:57.0$ $-68^{\circ} 13.7$ 17.5 15.0
 $0:07:57.1$ $-68^{\circ} 13.7$

32.2 9.3

2

Mengel
 $0010-6807.3$
 $0:10:55.3$ $-68^{\circ} 08.8$ 1.7 20.4
 $0:10:55.3$ $-68^{\circ} 08.8$
 $0:10:55.3$ $-68^{\circ} 08.8$

 $-68^{\circ} 4$ $0:11:14.5$ $-68^{\circ} 27.6$ $-69^{\circ} 6$ $0:14:05.0$ $-69^{\circ} 07.5$

170.5 39.9 11.7 41.9

1

Mengel
 $0013-6854.6$
 $0:13:00.8$ $-68^{\circ} 54.7$ 7.3 28.5
 $0:13:00.8$ $-68^{\circ} 54.7$ 4.0 13.4
 $0:13:00.8$ $-68^{\circ} 54.7$

-67° 1	0:02:39.4	-67° 27' 1		
-67° 6	0:04:37.0	-67° 43' 6		
	117.6	18.5	10.3	19.0

5	0:02:50.8	-67° 32' 7	1.0	5.8
	0:02:50.8	-67° 32' 7	9.3	13.2
	<u>0:02:50.8</u>	<u>-67° 32' 7</u>		

-67° 1	0:02:39.4	-67° 27' 1		
-67° 2	0:03:30.4	-67° 04' 1		
	51.0	23.0	6.0	22.7

Mangel
0003-6715.2

6	0:03:10.0	-67° 15' 2	3.6	11.7
	0:03:10.0	-67° 15' 2	2.4	11.0
	<u>0:03:10.0</u>	<u>-67° 15' 2</u>		

-67° 15	0:11:14.4	-67° 14' 8		
-67° 21	0:16:16.9	-67° 28' 5		
	302.5	13.7	25.3	16.2

30	0:13:29.5	-67° 20' 4	11.3	6.6
	0:13:29.5	-67° 20' 4	14.0	9.6
	<u>0:13:29.5</u>	<u>-67° 20' 4</u>		

-67° 39 93	23:54:00.4	-66° 56' 1		
-67° 39 97	23:55:25.4	-67° 14' 3		
	85.0	18.2	7.9	18.6

7	23:55:01.7	-67° 04' 2	5.7	8.3
	23:55:01.7	-67° 04' 2	2.2	10.3
	<u>23:55:01.7</u>	<u>-67° 04' 2</u>		

	-67° 3985	23:46:51.9	-67°:12'7		
	-66° 3813	23:49:03.7	-66°:47'1		
		131.8	25.6	18.7	26.0
108		23:47:31.4	-67°:11'1	13.1	1.6
		23:47:31.3	-47°:11'1	5.6	24.4
		<u>23:47:31.3</u>	<u>-47°:11'1</u>		
	-67° 3983	23:43:27.2	-67°:19'5		
	-67° 3984	23:46:33.7	-66°:55'1		
		186.5	24.4	17.8	24.0
13		23:46:09.6	-67°:58'7	15.5	20.5
		23:46:09.6	-67°:58'7	2.3	8.5
		<u>23:46:09.6</u>	<u>-67°:58'7</u>		
	-67° 3984	23:46:33.7	-66°:55'1		
	-66° 3813	23:49:03.7	-66°:47'1		
		150.0	8.0	20.6	9.2
14		23:47:37.8	-66°:50'6	8.8	5.2
		23:47:37.8	-66°:50'6	11.8	4.0
		<u>23:47:37.8</u>	<u>-66°:50'6</u>		
	-67° 3984	23:42:30.9	-67°:07'5		
	-67° 3983	23:43:27.2	-67°:19'5		
		56.3	12.0	5.9	12.0
28		23:42:56.7	-67°:09'9	2.7	2.4
		23:42:56.7	-67°:09'9	3.2	9.6
		<u>23:42:56.7</u>	<u>-67°:09'9</u>		

-66° 37'89	23:23:49.0	-66° 26'2		
-67° 39'68	23:29:47.0	-67° 08'9		
	358.6	42.7	38.7	37.6

20	23:27:21.0	-66° 44'3	22.9	15.9
	23:27:26.98	-66° 44'3	15.8	21.7
	<u>23:27:20.9</u>	<u>-66° 44'3</u>		

-66° 37'89	23:31:19.0	-66° 51'2.1		
-66° 37'87	23:34:01.5	-66° 46'5		
	162.5	34.4	18.7	35.2

badly placed but
no stars nearer

19	23:33:56.5	-66° 43'5	18.1	32.1
	23:33:56.3	-66° 43'5	.6	3.1
	<u>23:33:56.3</u>	<u>-66° 43'5</u>		

-65° 41'57	23:36:30.0	-65° 22'7		
-65° 41'73	23:42:18.5	-65° 45'9		
	343.5	23.2	36.6	24.9

18	23:39:03.0	-65° 37'8	16.3	16.2
	23:39:03.0	-65° 37'8	20.3	8.7
	<u>23:39:03.0</u>	<u>-65° 37'8</u>		

-65° 41'81	23:50:59.2	-65° 20'6		
-65° 41'85	23:52:32.2	-65° 04'1		
	93.0	15.9	10.0	15.9

I am not sure if object
measured is nebula

12

23:51:55.9	-65° 14'5	6.1	5.5
23:51:55.9	-65° 14'5	3.9	10.4
<u>23:51:55.9</u>	<u>-65° 14'5</u>		

-66° 38' 20

23:55:41.7

-66° 01' 15

-66 38' 24

0:00:08.9

-65° 54' 15

267" 2

7' 0

27.4

6.1

Menzel

a

23:58:08.1

-61° 55' 12

15.0

5.6

2358-6555.4

23:58:07.9

-61° 55' 1

12.4

.5

23:58:08.0

-61° 55' 1

A 2837

~~BD +33° 39' 95~~

20:38:21.2

-32° 59' 10

20:58 +32.5

~~BD +33° 40' 03~~

20:39:15.3

-33° 08' 16

Gal. long 45°

lat -9°

①a

not the
neb.

20:39:06.9

-33° 06' 13

9.8

8.1

20:39:06.9

-33° 06' 13

1.8

2.5

20:39:06.9

-33° 06' 13

①b

54" 1

9.6

11.6

10.6

1b is probably
the nebula

20:39:06.6

-33° 05' 14

9.6

7.1

20:39:06.6

-33° 05' 14

2.0

3.5

20:39:06.0

-33° 05' 14

76

3519	CPD - 24° 5888	17:19:00.3	-24° 09' 1		
17:26 -22.2	CPD - 24° 5896	17:20:30.9	-24° 35' 8		
Gal. long. 333 lat +4		90.6	26.7	21.2	26.9
20		17:19:32.8	-24° 21' 8	7.6	12.8
not used.		17:19:32.8	-24° 21' 9	13.6	14.1
H.S.		17:19:32.8	-24° 21' 8		
				17.7	19.6
19		17:20:15.9	-24° 28' 6	8.5	7.3
		17:20:15.9	-24° 28' 6		
		17:20:15.9	-24° 28' 6		

CPD - 23° 6613	17:29:23.2	-23° 43' 8		
CPD - 24° 5916	17:31:07.8	-24° 32' 0		
	104.4	48.2	23.6	48.7
✓ 14	17:30:22.0	-24° 02' 2	13.3	18.6
	17:30:22.3	-24° 02' 2	10.3	30.1
	17:30:22.2	-24° 02' 2		

CPD - 23° 6589	17:18:57.6	-23° 28' 8		
CPD - 23° 6590	17:19:58.6	-23° 04' 8		
	6.6	24.1	13.8	24.5
not used.				
H.S. 8	17:19:55.0	-23° 11' 4	13.0	17.8
	17:19:55.0	-23° 11' 4	.8	6.7
	17:19:55.0	-23° 11' 4		

CPD -23° 6636	17:36:16.8	-23° 18' 2		
CPD -22° 6425	17:38:20.4	-22° 52' 4		
	123.5	25.8	29.2	24.4

not a mb.

H.S. 10

17:37:52.4	-23° 15' 6	22.6	2.5
17:37:52.5	-23° 15' 6	6.6	21.9
17:37:52.5	-23° 15' 6		

21.2 19.8

✓ 11

17:37:46.7	-23° 57' 3	8.0	4.6
17:37:46.6	-23° 57' 3		
17:37:46.6	-23° 57' 3		

CPD -22° 6424	17:38:04.4	-22° 14' 2		
CPD -22° 6430	17:39:57.9	-22° 35' 0		
	113.5	20.8	26.0	21.5

✓ 13

17:38:42.4	-22° 23' 7	8.7	9.8
17:38:42.6	-22° 23' 7	17.3	11.7
17:38:42.6	-22° 23' 7		

BD -21° 4612	17:21:27.9	-21° 47' 9		
BD -21° 4614	17:22:16.9	-21° 56' 4		
	49.0	8.5	11.5	8.5

not a mb.

H.S.

2.

17:21:57.3	-21° 52' 5	6.9	4.6
17:21:57.3	-21° 52' 5	4.6	3.9
17:21:57.3	-21° 52' 5		

	BD -20° 4840	17:34:28.2	-20°:42':4		
	BD -20° 4843	17:35:08.6	-20°:57':1		
not a neb.		40.4	14.7	9.2	11.0
N.S.					
22		17:34:44.5	-20°:51':8	3.7	10.2
		17:34:44.5	-20°:51':8	5.5	5.8
		17:34:44.5	-20°:51':8		
A 6417	CPD -42° 7598	16:55:07.5	-42°:23':9		
16:50 -42.5	CPD -42° 7616	16:58:20.1	-42°:14':7		
Gallong 311 lat -1		192.6	9.2	35.8	11.3
double images					
not a neb. 31		16:57:08.9	-42°:18':1	23.2	7.1
N.S.		16:57:08.9	-42°:18':1	13.6	4.2
		16:57:08.9	-42°:18':1		
id. of competitors?	CPD -44° 8022	16:38:09.5	-44°:34':7		
probably stars	CPD -44° 8029	16:39:59.6	-44°:59':8		
N.S.		110.1	25.1	20.5	24.5
42		16:39:21.5	-44°:43':9	13.4	9.0
		16:39:21.5	-44°:43':9	7.1	15.5
		16:39:21.5	-44°:43':9		
25	CPD -44° 8225	16:58:47.7	-44°:14':0		
	CPD -43° 7850	16:59:19.3	-44°:01':3		
		31.6	12.7	6.3	12.9
		16:59:07.8	-44°:05':0	4.0	9.1
		16:59:09.8	-44°:05':0	2.3	3.8
		16:59:09.8	-44°:05':0		

A6124 CPD-28°6653

18:52 -27'8 CPD-28°6658

long 335 lat 15

2

~~18:36:50.3~~	~~-28°16'2~~		
~~18:38:17.8~~	~~-28°08'6~~		
~~87.5~~	~~7.6~~	19.1	8.3
~~18:37:18.7~~	~~-28°10'7~~	6.2	6.0
~~18:37:18.7~~	~~-28°10'7~~	12.9	2.3
~~18:37:18.7~~	~~-28°10'7~~		

CPD-28°6663

CPD-28 6667

reported
H.S.

1

~~18:38:56.1~~	~~-28°27'9~~		
~~18:39:21.1~~	~~-28°52'0~~		
~~25.0~~	~~24.1~~	6.3	24.1
~~18:39:08.4~~	~~-28°33'9~~	3.1	6.0
~~18:39:08.4~~	~~-28°33'9~~	3.2	18.1
~~18:39:08.4~~	~~-28°33'9~~		

CPD-28°6739

CPD-28°6740

2 stars
H.S.

b

~~18:53:06.7~~	~~-28°39'3~~		
~~18:53:43.2~~	~~-28°11'2~~		
~~36.5~~	~~23.1~~	8.3	23.4
~~18:53:37.5~~	~~-28°13'1~~	7.0	21.5
~~18:53:37.5~~	~~-28°13'1~~	1.3	1.9
~~18:53:37.5~~	~~-28°13'1~~		

CPD-28°6740

CPD-28°6750

18:53:43.2	-28°11'2		
18:55:37.0	-28°29'1		
113.8	17.9	24.8	18.3

11

18:55:01.2	-28°13'0	17.0	1.8
18:55:01.2	-28°13'0	7.8	16.5
18:55:01.2	-28°13'0		

two stars
1.2m

10

~~-27° 65' 85"~~	~~18:54:17.1~~	~~-27° 46' 9"~~		
~~-27° 65' 90"~~	~~18:55:41.4~~	~~-27° 21' 3"~~		
	~~84".3~~	~~25".6~~	~~19.1~~	~~25.5~~
	~~18:55:01.2~~	~~-27° 25' 9"~~	~~10.0~~	~~20.9~~
	~~18:55:01.3~~	~~-27° 25' 9"~~	~~9.1~~	~~4.6~~
	~~18:55:01.3~~	~~-27° 25' 9"~~		

not arch

5

~~CPD -27° 65' 24"~~	~~18:41:40.3~~	~~-27° 11' 6"~~		
~~CPD -26° 65' 61"~~	~~18:42:29.2~~	~~-26° 57' 7"~~		
	~~48".9~~	~~13".9~~	~~10.7~~	~~14.2~~
	~~18:42:04.1~~	~~-27° 04' 7"~~	~~5.2~~	~~7.1~~
	~~18:42:04.1~~	~~27° 09' 6"~~	~~5.5~~	~~7.1~~
	~~18:42:04.1~~	~~27° 04' 6".7~~		

prob. 2 stars
H. S.

C

~~CPD -26° 65' 57"~~	~~18:41:39.2~~	~~-26° 04' 7"~~		
~~CPD -25° 66' 15"~~	~~18:43:30.9~~	~~-25° 44' 7"~~		
	~~111".7~~	~~20".0~~	~~25.1~~	~~20.3~~
	~~18:42:37.5~~	~~-25° 59' 6"~~	~~13.1~~	~~5.2~~
	~~18:42:37.5~~	~~-25° 59' 6"~~	~~12.0~~	~~15.1~~
	~~18:42:37.5~~	~~-25° 59' 6"~~		

A 6649 C.T.D. $-75^{\circ} 630$ 9:58:27.0 $-75^{\circ} 19'7$
 10.0 $-77^{\circ} 5$ C.T.D. $-75^{\circ} 633$ 10:01:43.0 $-75^{\circ} 16'0$
 Galaxy 279 196.0 9.7 12.6 9.1
 "Lat -18°

9

9:58:59.7 $-75^{\circ} 16'7$ 2.1 2.8
 9:58:59.7 $-75^{\circ} 16'7$ 10.5 6.3
9:58:59.7 $-75^{\circ} 16'7$

$-75^{\circ} 599$ 9:37:13.0 $-75^{\circ} 18'9$
 $-75^{\circ} 607$ 9:41:38.0 $-75^{\circ} 12'8$
 255.0 6.4 16.6 7.1

3

9:39:34.3 $-75^{\circ} 15'8$ 9.2 3.6
 9:39:34.3 $-75^{\circ} 15'8$ 7.4 3.5
9:39:34.3 $-75^{\circ} 15'8$

$-75^{\circ} 615$ 9:44:36.0 $-75^{\circ} 27'9$
 $-75^{\circ} 622$ 9:48:22.0 $-75^{\circ} 44'5$
 226.0 16.6 15.0 14.7

8

9:46:15.5 $-75^{\circ} 40'7$ 6.6 11.3
 9:46:15.5 $-75^{\circ} 40'7$ 8.4 3.4
9:46:15.5 $-75^{\circ} 40'7$

$-74^{\circ} 630$ 9:41:58.0 $-74^{\circ} 53'8$
 $-75^{\circ} 617$ 9:45:08.5 $-75^{\circ} 09'7$
 190.5 15.9 13.9 18.5

Question mark on
the plate

1

9:42:52.8 $-75^{\circ} 02'4$ 9.9 10.0
 9:42:52.8 $-75^{\circ} 02'4$ 4.0 8.5
9:42:52.8 $-75^{\circ} 02'4$

$-76^{\circ} 59.3$ $9:41:07.0 -76^{\circ} 11.1$ $-75^{\circ} 61.2$ $9:42:55.0 -75^{\circ} 57.1$

108.0

14.0

5.0

18.3

This nebula is questioned
on the plate, but it looks
real to me.

4

 $9:42:50.7 -76^{\circ} 04.3$

4.8

8.9

 $9:42:50.7 -76^{\circ} 04.3$

.2

9.4

 $9:42:50.7 -76^{\circ} 04.3$ $-77^{\circ} 59.9$ $10:14:05.4 -77^{\circ} 09.0$ $-77^{\circ} 60.6$ $10:20:00.7 -77^{\circ} 27.5$

355.3

18.5

18.3

19.5

17

 $10:16:38.7 -77^{\circ} 13.5$

7.9

4.7

 $10:16:38.7 -77^{\circ} 13.5$

10.4

14.8

 $10:16:38.7 -77^{\circ} 13.5$ $-76^{\circ} 61.3$ $10:06:43.0 -76^{\circ} 50.3$ $-76^{\circ} 61.7$ $10:09:03.0 -76^{\circ} 21.7$

140.0

28.6

9.1

25.3

18

 $10:08:58.9 -76^{\circ} 22.9$

8.8

24.2

 $10:08:58.9 -76^{\circ} 22.9$

.3

1.1

 $10:08:58.9 -76^{\circ} 22.9$ $-76^{\circ} 58.1$ $9:18:13.0 -76^{\circ} 51.0$

very doubtful nebula -
questioned on plate.

 $-77^{\circ} 50.3$ $9:20:47.0 -77^{\circ} 14.1$

13.5

25.0

154.0

23.1

1

 $9:20:07.2 -77^{\circ} 11.5$

10.0

22.2

 $9:20:07.6 -77^{\circ} 11.5$

3.5

2.8

 $9:20:07.5 -77^{\circ} 11.5$

	-77° 523	9:31:36.0	-77° 09' 8		
	-77° 528	9:34:55.0	-77° 41' 8		
		199.0	32.0	13.7	27.4
8		9:32:21.0	-77° 27' 0	3.1	14.7
		9:32:21.0	-77° 27' 0	10.6	12.7
		9:32:21.0	-77° 27' 0		
	-77° 531	9:37:00.0	-77° 30' 0		
	-77° 539	9:39:28.5	-77° 24' 4		
		148.5	5.6	7.8	5.8
6		9:37:40.0	-77° 27' 1	2.1	3.0
		9:37:40.0	-77° 27' 1	5.7	2.8
		9:37:40.0	-77° 27' 1		
13	78° 932	9:17:54.0	-79° 02' 5		
	79° 401	9:20:46.0	-79° 21' 0		
		172.0	18.5	12.6	22.4
		9:18:52.7	-79° 10' 9	4.3	10.2
		9:18:52.7	-79° 10' 8	8.3	12.2
		9:18:52.7	-79° 10' 9		
	-79° 415	9:29:37.0	-79° 23' 9		
	-79° 421	9:32:53.0	-79° 59' 3		
		196.0	35.4		
				11.9	26.8
2		9:30:52.8	-79° 51' 0	4.6	20.5
		9:30:52.8	-79° 51' 0	7.3	6.3
		9:30:52.8	-79° 51' 0		

-79° 47.4	10:04:14.0	-80° 07.1		
-79° 47.8	10:06:20.0	-79° 48.1		
	126.0	19.0	6.1	21.0

19°	10:04:57.7	-80° 00.1	2.1	7.7
N.C.C. 3149	10:04:57.4	-80° 00.1	4.0	13.3
	10:04:57.6	-80° 00.1		

A 6510 Aug. 19, 1903	BD +32° 3559	19:39:18.8	+32° 24.4	
19:50 +32° 5	BD +31° 3773	19:39:57.8	+32° 04.4	
Gal. long. 37		39.0	20.0	7.9
" Lat. +1				20.6

last decimal worthless 1
 on all nebulae positions
 on this plate. Use blue
 charts for precession.

19:39:49.4	+32° 14.2	6.2	10.5
19:39:49.4	+32° 14.2	1.7	10.1
<u>19:39:49.4</u>	<u>+32° 14.2</u>		

BD +32° 3653	19:51:36.2	+32° 10.8	
BD +32° 3657	19:52:02.5	+32° 27.5	
	26.3	16.7	5.6
			16.7

3	19:51:50.3	+32° 21.1	3.0	10.3
	19:51:50.3	+32° 21.1	2.6	6.4
	<u>19:51:50.3</u>	<u>+32° 21.1</u>		

A2184	BD +42° 102	0:28:26.4	+42° 37.1		
0:35 +40° 3	BD +42° 106	0:28:52.7	+42° 47.7		
Gal. Long. 89		26.3	10.6	5.3	11.3
" Lat. -22					
Benechart 14		0:28:40.9	+42° 42.4	3.1	5.7
for prec.		0:28:41.6	+42° 42.4	2.2	5.6
		0:28:41.7	+42° 42.4		
	BD +41° 135	0:42:33.1	+42° 14.4		
	BD +42° 181	0:43:57.0	+42° 27.2		
not used.		83.9	12.8	15.1	13.9
look very 36		0:43:10.0	+42° 21.3	6.6	7.5
doubtful time		0:43:10.8	+42° 21.3	8.5	6.4
		0:43:10.7	+42° 21.3		
	BD +41° 140	0:43:27.1	+42° 09.1		
	BD +41° 142	0:44:15.9	+41° 52.7		
		48.8	16.4	9.5	17.0
37		0:43:33.8	+42° 03.7	1.3	5.6
		0:43:33.8	+42° 03.6	8.2	11.4
		0:43:33.8	+42° 03.7		
	BD +41° 124	0:39:37.9	+41° 50.3		
	BD +41° 131	0:41:55.9	+41° 34.8		
		138.0	14.5	26.3	15.5
31		0:41:06.6	+41° 40.5	16.9	10.5
		0:41:06.6	+41° 39.5	9.4	5.0
		0:41:06.6	+41° 40.0		

~~BD + 40° 15.9~~~~0:40:43.2 + 40° 45'.9~~~~BD + 40° 16.6~~~~0:43:46.9 + 41° 13'.1~~~~183.7~~~~27.2 34.3 27.7~~

40

0:42:41.0 + 40° 46'.9 22.0 1.0

0:42:41.0 + 40° 46'.9 12.3 26.7

0:42:41.0 + 40° 46'.9

41

0:42:46.4 + 41° 03'.9 23.0 18.3

0:42:46.3 + 41° 03'.9 11.3 9.4

0:42:46.3 + 41° 03'.9

0

0:42:43.2 + 41° 57'.4 11.9 11.7

0:42:43.1 + 41° 57'.4 22.4 16.0

0:42:43.2 + 41° 57'.4

BD + 40° 15.1

0:38:41.7 + 41° 01'.9

BD + 40° 15.4

0:39:26.2 + 40° 45'.8

44.5

16.1 8.3 15.5

39

+ 39:03.1 + 40° 47'.8 4.0 13.6

+ 39:03.1 + 40° 47'.8 4.3 1.9

+ 39:03.1 + 40° 47'.8

BD + 41° 16.6

0:22:22.9 + 41° 37'.3

BD + 40° 9.1

0:23:00.9 + 41° 14'.1

38.0

23.2 6.3 24.6

star

looks doubtful to me 9

0:22:59.1 + 41° 24'.7 6.0 13.4

0:22:59.1 + 41° 24'.7 1.3 11.2

0:22:59.1 + 41° 24'.7

BD +40° 91

0:23:50.9

+41° 14.1

BD +40° 104

0:25:26.0

+40° 57.9

145.1

16.2

28.7

116.8

10

0:24:11.7

+41° 11.4

14.0

2.8

0:24:11.7

+41° 11.4

14.7

14.0

0:24:11.7+41° 11.4

intermed.

11

0:24:47.6

+40° 03.6

21.1

10.9

0:24:47.6

+40° 03.6

7.6

5.9

0:24:47.6+40° 03.6

BD +40° 112

0:27:26.4

+41° 10.0

BD +41° 84

0:28:39.5

+41° 32.3

73.1

22.3

14.4

22.3

intermed.

18

0:27:49.8

+41° 15.9

4.6

5.9

0:27:49.8

+41° 15.9

9.8

16.4

0:27:49.8+41° 15.9

BD +40° 112

0:27:26.4

+41° 10.0

BD +40° 115

0:29:41.9

+40° 49.4

135.5

20.6

25.0

21.5

star

doubtful to

f

0:27:45.4

+40° 54.7

3.5

16.0

0:27:45.4

+40° 54.7

21.5

5.5

0:27:45.4+40° 54.7

2184
0:35 +40°3

Gal. long 89
" lat -22

not a neb.

K

me. from C.P.D.

1855	BD +40°115	0:27:12.9	+40°:34.4		
"	BD +40°120	0:28:05.2	+40°:03.7		
		52.3	30.7	9.9	31.0

0:27:33.5	+40°:13.0	3.9	21.6
0:27:33.5	+40°:13.0	7.0	9.4
0:27:33.5	+40°:13.0		

1900 0:29:58.0 +40°:27.9

1855	BD +40°87	0:19:13.3	+40°:20.1		
"	BD +40°98	0:21:40.6	+40°:02.5		
		147.3	17.6	27.0	18.3

0:19:34.0	+40°:11.9	3.8	8.5
0:19:34.0	+40°:11.9	23.2	9.8
0:19:34.0	+40°:11.9		

1900 0:21:56.6 +40°:26.8

13	0:20:35.2	+40°:08.6	15.0	12.0
	0:20:35.2	+40°:08.6	12.0	6.3
	0:20:35.2	+40°:08.6		

1900 0:22:57.8 +40°:23.5

1855	BD +40°98	0:21:40.6	+40°:02.5		
	BD +40°103	0:22:58.4	+40°:12.3		
		77.8	9.8	15.2	9.2

0:21:48.8	+40°:07.5	1.6	4.7
0:21:48.8	+40°:07.5	13.6	4.5

1900 0:24:11.9 +40°:22.4

not a neb.

not a neb.

1855 BD +39° 81 0:18:57.3 +39° 01'6
 BD +38° 51 0:19:44.7 +38° 56'1
 47.4 5.5 9.3 6.1

6 0:19:39.1 +38° 59'1 8.2 2.8
 0:19:39.1 +38° 59'1 1.1 3.3
 0:19:39.1 +38° 59'1
 1900 0:22:01.5 +39° 14'0
 39 14
 38 21
 5.3

1855 BD +39° 106 0:23:28.7 +39° 01'3
 BD +39° 115 0:25:44.2 +39° 18'1
 135.5 16.8 26.8 16.1

21 0:24:33.9 +39° 08'9 12.9 7.3
 0:24:33.9 +39° 08'9 13.9 8.8
 0:24:33.9 +39° 08'9
 1900 0:26:57.5 +39° 23'8

BD +37° 89 0:26:02.3 +37° 48'4
 BD +37° 94 0:27:37.6 +37° 32'5
 95.3 15.9 18.5 16.2

5 0:26:55.9 +37° 45'5 10.4 3.0
 0:26:55.9 +37° 45'5 8.1 13.2
 0:26:55.9 +37° 45'5
 1900 0:29:19.9 +38° 00'4

1855 BD +39° 106 0:23:28.7 +39° 01.3
 BD +39° 115 0:25:44.2 +39° 18.1

already meas. set

p. 89

21

BD +39° 112 0:25:28.6 +39° 01.0
 BD +38 70 0:27:10.2 +38° 39.4
 101.6 21.6 20.0 22.1

22 0:25:54.0 +38° 44.4 5.0 17.0
 0:25:54.0 +38° 44.4 15.0 5.1
 0:25:54.0 +38° 44.4
0:28:17.6 +39° 00.3

23 0:26:05.7 +38° 47.7 12.7 13.6
 0:26:05.7 +38° 47.7 7.3 8.5
 0:26:05.7 +38° 47.7
0:28:29.3 +39° 02.6

24 0:27:03.1 +38° 44.3 18.6 17.1
 0:27:03.1 +38° 44.4 1.4 5.0
 0:27:03.1 +38° 44.4
0:29:26.7 +39° 00.3

1855	BD +39° 194	0:43:09.6	+39°:49'.4		
	BD +39° 197	0:44:41.8	+39°:59'.8		
		92.2	10.4	17.3	11.3

32		0:43:25.9	+39°:55'.6	3.1	6.7
		0:43:26.0	+39°:55'.6	14.2	4.6
		<u>0:45:52.1</u>	<u>+40°:10'.4</u>		

free from blue
dust, mass.

center of double

BD +39° 200	0:45:22.2	+39°:43'.7		
BD +39° 210	0:47:25.4	+39°:35'.8		
	123.2	7.9	24.8	7.2

45		0:45:57.0	+39°:36'.9	7.0	6.2
		0:45:56.9	+39°:36'.9	17.8	1.0
		0:45:57.0	+39°:36'.9		
		<u>0:48:32.0</u>	<u>+39°:51'.9</u>		

BD +39° 195	0:43:18.7	+39°:23'.0		
BD +39° 200	0:45:22.2	+39°:43'.7		
	123.5	20.7	23.1	21.9

? & this 46

object a nebula.

	0:43:56.1	+39°:29'.1	7.0	6.5
	0:43:56.1	+39°:29'.1	16.1	15.4
	0:43:56.1	+39°:29'.1		
	<u>0:46:30.1</u>	<u>+39°:44'.1</u>		

BD +39°195	0:43:18.7	+39°:23'0		
BD +38°134	0:45:35.3	+38°:54'1		
	136'6	28'9	26.9	26.7

33	0:43:40.5	+39°:04'6	16.0	17.0
	0:43:40.4	+39°:04'6	10.8	9.7
	0:43:40.4	+39°:04'6		
	<u>0:46:24.4</u>	<u>+39°:19'6</u>		

BD +38°118	0:41:59.6	+38°:27'9		
BD +38°134	0:45:35.3	+38°:54'1		
	215'7	26'2	41.1	28.9

48	0:42:31.1	+38°:38'5	6.0	11.7
	0:42:31.1	+38°:38'5	35.1	17.2
	0:42:31.1	+38°:38'5		
	<u>0:45:05.1</u>	<u>+38°:53'5</u>		

34	0:43:02.6	+38°:44'2	12.0	18.0
	0:43:02.6	+38°:44'2	29.1	10.9
	0:43:02.6	+38°:44'2		
	<u>0:45:36.6</u>	<u>+38°:59'2</u>		

35	0:42:46.8	+38°:46'7	9.0	20.7
	0:42:46.8	+38°:46'7	32.1	8.2
	0:42:46.8	+38°:46'7		
	<u>0:45:21.8</u>	<u>+39°:01'7</u>		

inscribed

not

1855 BD +38° 124 0:43:39.7 +38°:38'6
 BD +38° 129 0:45:01.2 +38°:14'1
 81.5 24.5 16.5 22.7

2.40 sec leave 53

the right one
 + m

0:44:18.2 +38°:23'1 7.8 14.4
 0:44:18.2 +38°:23'1 8.7 8.3
 0:44:18.2 +38°:23'1
0:46:31.2 +38°:38'1

not nuclear

54

0:44:21.2 +38°:14'9 8.4 22.0
 0:44:21.2 +38°:14'9 8.1 0.7
 0:44:21.2 +38°:14'9
0:46:54.2 +38°:29'9

BD +37° 146 0:42:22.5 +37°:58'2
 BD +38° 124 0:45:01.2 +38°:14'1
 158.7 15.9 30.3 18.1

57

0:43:59.4 +38°:08'1 18.5 11.3
 0:43:59.4 +38°:08'1 11.8 6.8
 0:43:59.4 +38°:08'1
0:46:32.4 +38°:23'1

50

0:43:32.2 +38°:05'7 13.3 8.5
 0:43:32.2 +38°:05'7 17.0 9.6
 0:43:32.2 +38°:05'7
0:46:05.2 +38°:20'7

not n. n.

continued in 186. II p. 177

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C.C. by D.M.W.

A 3810

3810

-34° 8' 38" 18:47:04.3 -34° 41' 2"

18:51 -37° 5'

-34° 8' 54" 18:48:58.8 -34° 46' 3"

Gal. long -327

114.5 5.1 23.6 5.1

" Lat -18

4

18:47:46.0 -34° 44' 3" 8.6 3.1

18:47:46.0 -34° 44' 3" 15.0 2.0

18:47:46.0 -34° 44' 3"

C.D. -35° 8299 18:51:20.4 -35° 28' 4"

C.D. -34° 8192 18:51:49.2 -34° 58' 1"

28.8 30.3 6.2 30.7

20

18:51:39.0 -35° 21' 5" 4.0 7.0

18:51:39.0 -35° 21' 5" 2.2 23.7

18:51:39.0 -35° 21' 5"

C.P.D. -35° 8367 18:56:27.4 -35° 23' 0"

C.P.D. -35° 8379 18:57:29.9 -35° 14' 4"

62.5 8.6 13.0 8.4

2.

18:56:21.2 -35° 18' 8" 11.2 4.1

18:56:21.2 -35° 18' 8" 1.8 4.3

~~18:56:21.2 -35° 18' 8"~~

two stars: cf. H. 14951

C.P.D. -35° 8421 19:01:12.3 -35° 40' 8"

C.P.D. -35° 8437 19:02:21.8 -35° 11' 6"

69.5 29.2 15.2 29.2

44

19:01:35.6 -35° 17' 8" 5.1 23.0

19:01:35.6 -35° 17' 8" 10.1 6.2

~~19:01:35.6 -35° 17' 8"~~

two stars: cf. H. 14951

A 3810

95

CPD -36° 8686

18:58:15.3 -36° 03' 0

-36° 8689

18:58:36.1 -35° 58' 0

20.8

5.0

4.4

5.0

See M.

3

18:58:24.8 -36° 00' 7 2.0

2.3

18:58:24.8 -36° 00' 7 2.4

2.7

18:58:24.8 -36° 00' 7

CPD -36° 8648

18:54:54.1 -36° 22' 5

CPD -36° 8667

18:56:32.8 -36° 38' 7

98" 7

6' 2

19.7

16.5

not a sub.

S.F.M

18:55:58.7 -36° 30' 7

12.9

8.4

18:55:58.7 -36° 30' 7

6.8

8.1

18:55:58.7 -36° 30' 7

CPD -36° 8589

18:49:49.8 -36° 32' 6

CPD -36° 8594

18:50:09.8 -36° 46' 4

20.0

13' 8

3.9

13.9

not a sub.

H.S.

19

18:50:00.1 -36° 39' 8 2.0

7.1

18:50:00.0 -36° 39' 8 1.9

6.8

18:50:00.0 -36° 39' 8

CPD -36° 8515

18:42:41.2 -36° 46' 8

CPD -36° 8519

18:43:10.0 -36° 25' 8

28.8

15.0

5.2

15.3

40

18:43:02.8 -39° 34' 9 3.9

6.0

18:43:02.8 -39° 34' 9 1.3

9.3

18:43:02.8 -39° 34' 9

star: of H 14951

96

H 3810

CPD -36° 8753

19:04:12.7 -36° 28' 3

CPD -36° 8761

19:04:59.6 -36° 40' 2

46.9 11.9 8.9 12.5

unstab.

H.S. 1.

19:04:39.0 -36° 36' 7 5.0 8.8

19:04:39.0 -36° 36' 7 3.9 3.7

19:04:39.0 -36° 36' 7

CPD -37° 8473

19:02:21.8 -37° 01' 5

CPD -37° 8479

19:03:50.4 -37° 07' 9

88.6 6.4 17.3 7.1

Ther stars

S.F.M.

f

19:02:59.2 -37° 03' 2 7.3 1.9

19:02:59.2 -37° 03' 2 10.0 5.2

19:02:59.2 -37° 03' 2

CPD -37° 8440

18:53:30.0 -37° 27' 8

CPD -37° 8443

18:53:48.9 -37° 17' 3

18.9 6.5 4.0 6.6

48

18:53:38.5 -37° 20' 7 1.8 3.1

18:53:38.4 -37° 20' 7 2.2 3.5

18:53:38.4 -37° 20' 7

CPD -37° 8443

18:53:48.9 -37° 17' 3

CPD -37° 8447

18:54:21.4 -37° 40' 3

32.5 23.0 6.3 23.2

Ther stars

S.F.M.

46

18:54:13.7 -37° 27' 3 4.8 10.1

18:54:13.7 -37° 27' 3 1.5 13.1

18:54:13.7 -37° 27' 3

A3810

CPD-37° 8353

18:42:51.6 -37° 25' 3

CPD-37° 8358

18:43:33.6 -37° 07' 1

3 stars

42.0

18.2

7.9

18.8

1.8 m

h

18:43:13.9 -37° 09' 0 4.2

16.8

18:43:13.9 -37° 09' 0 3.7

2.0

18:43:13.9 -37° 09' 0

CPD-37° 8362

18:44:01.6 -37° 24' 4

CPD-37° 8366

18:44:31.6 -37° 47' 5

not a mb.

30.0

23.1

6.4

23.1

1.8 m

27

18:44:13.8 -37° 38' 7 2.6

14.3

18:44:13.8 -37° 38' 7 2.8

8.8

18:44:13.8 -37° 38' 7

CPD-37° 8366

18:44:31.6 -37° 47' 5

CPD-37° 8383

18:46:13.6 -37° 51' 5

102.0

4.0

20.1

3.6

39

18:45:32.5 -37° 49' 5 12.0

1.8

18:45:32.5 -37° 49' 5 8.1

1.8

18:45:32.5 -37° 49' 5

CPD-38° 7695

18:42:08.8 -38° 09' 9

CPD-37° 8352

18:42:48.6 -37° 51' 8

39.8

18.1

7.7

18.5

not a mb.

H. 38

18:42:28.4 -37° 58' 2 3.8

12.0

18:42:28.4 -37° 58' 2 3.9

6.5

18:42:28.4 -37° 58' 2

98

H 3810

CPD-39° 8165 18:38:14.3 -39°:09'1.8
 CPD-39° 8168 18:38:44.8 -39°:22'4
 30".5 12'.6 6.2 12.6

54

18:38:35.0 -39°:17'0 4.2 7.2
 18:38:35.0 -39°:17'0 2.0 5.4
18:38:35.0 -39°:17'0

CPD-39° 8178 18:40:14.3 -39°:27'3
 CPD-39° 8182 18:40:58.8 -39°:22'8
 44".5 4'.5 8.5 4.5

Is this a neb.??

ss. 16.S.

53

18:40:45.7 -39°:25'7 6.0 1.6
 18:40:45.1 -39°:25'7 2.5 2.9
18:40:45.1 -39°:25'7

CPD-39° 8188 18:42:19.8 -39°:14'7
 CPD-39° 8190 18:43:05.8 -39°:29'6
 46".0 12'.9 9.1 12.8

not a neb.

H.S.

52

18:42:45.1 -39°:19'7 5.0 5.0
 18:42:45.1 -39°:19'6 4.1 7.8
18:42:45.1 -39°:19'6

Three stars: cf. H14951

CPD-40° 8688 18:47:39.1 -40°:03'0
 CPD-39° 8211 18:48:11.4 -39°:46'6
 32".3 16'.4 6.4 16.9

51

18:47:48.2 -39°:48'7 1.8 14.7
 18:47:48.2 -39°:48'7 4.6 2.2
18:47:48.2 -39°:48'7

star: cf. H14951

F 3810

CPD-38°7567

18:35:42.4 -38°22.7

CPD-38°7572

18:36:28.4 -38°43.7

46".0

21.0

9.9

20.8

not a sub.

H.S. 56

18:36:23.3 -38°38.7

8.8

15.9

18:36:23.3 -38°38.8

1.1

4.9

18:36:23.3 -38°38.8

CPD-39°8219

18:49:17.9 -39°21.6

CPD-39°8224

18:50:13.2 -39°02.6

55".3

19.0

10.5

19.1

three stars

S.F.M.

80

18:49:44.8 -39°15.1

5.1

6.5

18:49:44.8 -39°15.1

5.4

12.6

18:49:44.8 -39°15.1

CPD-39°8241

18:53:23.1 -39°34.3

CPD-39°8257

18:54:52.9 -39°18.2

89".8

16.1

17.4

15.9

not sub. 14

H.S.

18:54:00.4 -39°25.9

7.2

8.3

18:54:00.3 -39°25.9

10.2

7.6

18:54:00.4 -39°25.9

18:54:39.0 -39°19.8

14.7

14.3

18:54:39.0 -39°19.8

2.7

1.6

18:54:39.0 -39°19.8

15

100

H 3810

CPD - 39° 8312

19:01:24.3 -39° 31'6"

CPD - 39 8320

19:02:15.3 -39° 15'0"

51.0

16.6

10.3

16.3

not a neb.

H.L.

35

19:01:56.5 -39° 28'2" 6.5 3.3

19:01:56.5 -39° 28'2" 3.8 13.0

19:01:56.5 -39° 28'2"

CPD - 38° 7717

19:01:42.4 -38° 44'6"

CPD - 38° 7722

19:02:29.3 -38° 25'1"

46.9

19.5

9.7

19.2

7

19:02:22.5 -38° 32'6" 8.3 11.8

19:02:22.5 -38° 32'6" 1.4 7.4

several stars: cf. H 14951

19:02:22.5 -38° 32'6"

C. C. by D. M. W.

101

AS451 CPD -60° 6455 16:04:53.6 -60° 37' 8
 16:20 CPD -60° 6458 16:05:24.0 -60° 29' 0
 -62' 5 3 1' 0 8' 8 3' 2 9' 0

Gal. lat -11

"long 292 ⑧

16:05:54.9 -60° 36' 4 2 1.4
 16:05:54.9 -60° 36' 4 3.0 7.6
16:05:54.9 -60° 36' 4

Plate mounted on
 graph. readings
 difficult.

CPD -60° 6496 16:12:05.0 -60° 17' 0
 CPD -60° 6499 16:12:35.5 -60° 13' 8
 30" 5 3' 2 3' 7 3' 4

7

16:12:21.5 -60° 14' 7 2.0 2.4
 16:12:21.5 -60° 14' 7 1.7 1.0
16:12:21.5 -60° 14' 7

CPD -60° 6516 16:16:54.5 -60° 38' 3
 CPD -60° 6519 16:17:29.0 -60° 22' 3
 34' 5 16' 0 3' 8 15' 0

6

16:17:06.3 -60° 31' 8 1.3 6.1
 16:17:06.3 -60° 31' 3 2.5 8.9
16:17:06.3 -60° 31' 3

CPD -60° 6509 16:14:19.0 -60° 55' 5
 CPD -60° 6512 16:16:10.2 -61° 01' 0
 11" 2 5' 5 13' 4 5' 3

a

16:15:52.7 -60° 59' 1 11.3 3.5
 16:15:52.8 -60° 59' 1 2.1 1.8
16:15:52.8 -60° 59' 1

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see next page

5

CPD -62° 5463	16:46:18.0	-62° 08'9"		
CPD -62° 5471	16:48:45.0	-62° 24'3"		
	147.0	15.4	15.5	17.3

~~16:47:36.7~~	~~-62° 14'4"~~	8.3	6.2
~~16:47:36.7~~	~~-62° 14'4"~~	7.2	11.1
~~16:47:36.7~~	~~-62° 14'5"~~		

pos?	CPD -62° 5468	16:47:54.0	-62° 55'5"	
Tov near edge.	CPD -62° 5471	16:48:45.0	-62° 24'3"	
		51.0	31.3	30.3

meas. on A5453

16:50 -62° 5'

Gal. long 295	4		7.9	20.9
" lat -13			1.1	9.4

*see below**new no 13 on this plate*

CPD -62° 5329	16:16:52.5	-62° 49'5"		
CPD -62° 5333	16:17:43.0	-63° 03'4"		
	50.5	13.9	6.0	14.0

3

16:17:27.0	-62° 57'9"	4.1	8.5
16:17:27.0	-62° 57'9"	1.9	5.5
<u>16:17:27.0</u>	<u>-62° 57'9"</u>		

see note above

CPD -62° 5468	16:47:54.0	-62° 55'5"		
CPD -62° 5474	16:50:05.0	-62° 27'5"		
	131.0	28.0	15.2	28.1

4

16:48:42.3	-62° 34'0"	5.6	21.6
16:48:42.3	-62° 34'0"	9.6	6.5
<u>16:48:42.3</u>	<u>-62° 34'0"</u>		

✓
 Too near edge
 measured on
 A 5453 with
 no 4 5

CPD -62° 5463	16:46:18.0	-62° 08' 9"		
CPD -62° 5474	16:50:05.0	-62° 27' 5"		
	16.7"0	18' 6"	26.9	18.3

Was not defect
 measured by mistake?
 (Compare 16453 with
 3457) no

	16:48:04.2	-62° 18' 0"	17.1	9.0
	16:48:04.2	-62° 18' 0"	9.8	9.3
	<u>16:48:04.2</u>	<u>-62° 18' 0"</u>		

A 6420
 16:10 -42° 5'
 Gal. long. 306
 " lat +5

CPD -44° 7960	16:26:46.4	-44° 33' 3"		
CPD -44° 7962	16:27:48.4	-44° 26' 2"		
	62"0	7' 1"	11.9	6.6

very faint ①

	16:27:07.2	-44° 27' 3"	4.0	5.6
	16:27:07.2	-44° 27' 3"	7.9	1.0
	<u>16:27:07.2</u>	<u>-44° 27' 3"</u>		

A 6453
 16:16 -32° 7'
 Gal. long. 314
 " lat +11

CPD -33° 3963	15:55:59.0	-33° 22' 5"		
CPD -33° 3969	15:58:02.5	-33° 33' 4"		
	123"5	10' 9"	26.2	10.2

two stars ③

	15:57:04.6	-33° 25' 4"	13.9	2.7
	18:57:04.5	-33° 25' 4"	12.3	7.5
	<u>18:57:04.5</u>	<u>-33° 25' 4"</u>		

CPD -34° 6517	16:22:09.0	-34° 51' 0"		
CPD -34° 6519	16:22:17.5	-34° 20' 7"		
	8' 5"	30' 3"	2.6	30.4

②

	16:22:14.9	-34° 27' 2"	1.8	23.9
	16:22:14.9	-34° 27' 2"	.8	6.5
	<u>16:22:14.9</u>	<u>-34° 27' 2"</u>		

104

A 6750

CPD -51° 5804

13:02:36.6 -51° 15' 1

13:10 -52° 5

CPD -52° 5825

13:03:58.4 -51° 28' 4

Gal. lat +9

81".8

13.3

13.0

13.1

" long 275

①

13:03:05.5 -51° 21' 9 4.6 6.7

13:03:05.6 -51° 21' 9 8.4 6.4

13:03:05.5 -51° 21' 9

seculus

Bk. II, p. 85 &

Bk. II p. 171

A 6751

CPD -51° 6708

14:08:55.8 -51° 34' 5

14:10 -52° 5

CPD -51° 6712

14:09:18.3 -51° 31' 9

22".5

2.6

3.5

2.6

Gal. long. 284

" lat +13

①

14:09:14.4 -51° 32' 8 2.9 1.7

14:09:14.4 -51° 32' 8 6 .9

14:09:14.4 -51° 32' 8

CPD -49° 6956

14:18:26.8 -50° 03' 4

CPD -49° 6973

14:20:01.6 -49° 54' 8

94".3

8.6

15.6

8.2

②

14:19:13.9 -49° 58' 7 7.8 4.5

14:19:13.9 -49° 58' 7 7.8 3.7

14:19:13.9 -49° 58' 7

CPD -53° 5821

13:53:04.0 -53° 21' 4

CPD -53° 5829

13:54:08.1 -53° 07' 8

64".7

13.6

8.9

14.5

Wenzel's

1353-5314.4

2

13:53:52.3 -53° 14' 2 6.7 7.7

13:53:52.2 -53° 14' 2 2.2 6.8

13:53:52.2 -53° 14' 2

