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Rh 38.

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January 9, 191X

June 10:15

I37427

No.	Class	Int.	Remark
1	B	6	E. Cannot subdivide.
2	K	4	E
3	F	4	E
4	A	3	E
5	K2	2	E
6	A0	10	E. Burned plt.
7	F2	4	
8	A0	4	
9	A0	9	E
10	B8	5	
11	B0	6	
12	B9	8	
13	A2	7	
14	A	2	
15	K5	3	
16	A0	2	
17	F	2	
18	B9	9	E
19	A5	5	
20	A	2	E
21	K5	2	
22	A	1	
23	F5	3	
24	F5	2	E
25	F8	2	E
26	A	2	E
27	B3	3	

No.	D. M.	R. A.	Dec	Mag.
1	+56 798	3 4 40.0	+56 35.4	6.0 ✓
2	+55 766	3 9 27.2	+55 0.2	7.2 ✓
3	+54 672	3 12 8.2	+54 42.0	7.0 ✓
4	+55 776	3 12 23.7	+55 36.1	8.2 ✓
5	+55 785	3 15 11.3	+55 37.5	7.8 ✓
6	+54 684	3 18 59.4	+54 57.2	4.8 ✓
7	+55 794	3 20 40.6	+55 56.8	8.1 ✓
8	+55 797	3 22 25.5	+55 3.5	8.2 ✓
9	+54 693	3 22 38.1	+54 27.7	6.0 ✓
10	+55 801	3 25 11.1	+55 23.4	7.0 ✓
11	+56 824	3 26 26.0	+56 14.0	6.6 ✓
12	+56 826	3 26 57.6	+56 28.1	6.5 ✓
13	+55 803	3 28 26.8	+55 54.2	7.0 ✓
14	+56° 835	3 31 56	+56 0.2	8.5 ✓
15	+55 815	3 31 30.1	+55 5.3	8.2 ✓
16	+55 820	3 33 30.7	+55 43.2	8.2 ✓
17	+55 821 815	3 34 3.8 47.7	+55 54.1 5.3	8.4 ~~7.5~~ ✓
18	+55 824	3 36 13.6	+55 28.3	6.5 ✓
19	+54 707	3 34 39.5	+54 30.5	6.5 ✓
20	+54 711	3 36 50.3	+54 35.5	8.5 ✓
21	+55 b 825	3 36 58.1	+55 39.7	8.5 ✓
22	+55 7 826	3 37 41.7	+55 24.9	8.5 ✓
23	+54 715	3 39 38.5	+54 54.2	8.0 ✓
24	+54 713	3 38 32.6	+54 15.8	8.0 ✓
25	+54 714	3 39 31.1	+54 20.2	7.8 ✓
26	+54 717	3 40 5.6	+54 15.3	8.0 ✓
27	+56 845	3 37 9.6	+56 34.0	8.5 ✓

Could make out

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January 9, 1911 (Cont)

I 37427

No.	Class	Dur.	Remark
28	Bg	6	Partly superposed
29	Q0	4	" "
30	Q2	10	
31	Z	4	Hazy. Auxiliar star may be superposed.
32	Q5	7	
33	Y5	2	
34	Q0	7	
35	K	2	
36	Y	3	
37	Q0	5	
38	Q	2	
39	Q0	7	
40	Z2	4	
41	K	2	
42	K0	5	
43	Z5	6	
44	Z5	.6	
45	Q2	6	
46	K0	6	
47	Q	5	E
48	Q	3	E
49	B8	3	E. Difficult
50	B3	5	Hz bright. Irregular Edge. Kismell marked.
51	Y	3	
52	Y	3	
53	Q	4	Difficult. owing to auxiliar superposed.

No.	Q. M.		R. A.		Dec.		Mg.	
28	+5°6	846	3 37	48.6	+5°6	39.5	7.0	✓
29	+5°6	847	3 37	53.1	+5°6	40.1	7.5	✓
30	+5°7	752	3 41	8.3	+5°7	31.8	6.0	✓
31	+56°	855	3 43	17.1	+66	59.3	8.0	✓
32	+5°6	~~857~~ 854	3 44	12.1	+5°6	~~3.5~~ 54.4	~~8.2~~ 7.0	✓
33	+5°7	757	3 44	30.0	+5°7	28.6	8.5	✓
34	+5°7	760	3 47	8.0	+5°7	1.1	7.0	✓
35	+5°7	761	3 47	32.1	+5°7	34.0	8.9	✓
36	+5°7	762	3 48	25.2	+5°7	28.0	8.7	✓
37	+5°7	769	3 51	42.6	+5°7	17.9	8.0	✓
38	+56	872	3 51	33.1	+5°6	58.3	8.7	✓
39	+5°5	839	3 49	51.1	+5°5	37.2	7.5	✓
40	+5°5	844	3 51	22.0	+5°5	50.5	7.5	✓
41	+5°6	875	3 53	0.2	+56	20.0	8.0	✓
42	+5°6	879	3 55	21.0	+5°6	20.5	7.6	✓
43	+5°4	734	3 53	13.6	+5°4	40.2	7.0	✓
44	+5°4	740	3 57	58.2	+5°4	25.9	6.0	✓
45	+5°7	785	4 3	10.6	+5°7	5.5	6.5	✓
46	+5°7	787	4 5	10.5	+5°7	29.1	6.0	✓
47	+5°6	899	4 5	31.7	+5°6	48.8	7.3	✓
48	+5°8	572	3 8	41.6	+5°8	10.8	8.2	✓
49	+5°9	687	3 1	9.0	+5°9	22.0	8.3	✓
50	+5°9	689	3 2	40.9	+5°9	0.2	7.4	✓
51	+5°8	581	3 5	41.6	+5°8	36.0	8.5	✓
52	+5°8	583	3 6	19.0	+5°8	14.7	8.4	✓
53	+5°9	618	3 4	46.2	+5°9	29.5	7.9	16 superposed. ✓

Curve made ok

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No.	Class	Dist.	Remark
54	A	3	
55	B8	5	Difficult.
56	B8	3	Difficult
57	B8?	3	Difficult
58	B8	3	Difficult
59	A5	4	
60	K0	4	
61	F0	3	
62	K0	4	
63	B5	4	
64	A	4	
65	F	2	
66	B	10+	Burred out
67	A0	8	
68	A	2?	
69	B	10+	Burred out
70	B8	7	
71	A2	5	
72	A5	3	Another star superposed?
73	B8	3	
74	K0	3	
75	A	2?	
76	A	2?	
77	K	2?	
78	F5	6	
79	A0	3	
80	K0	8	

No.	D.m.		R.A.		Dec.		mg.	
54	+5°9	621	3h 5m	10.6	+5°9	27.0	8.3 v	
55	+5°9	625	3 5	27.5	+5°9	31.3	7.1 v	
56	+5°9	630	3 7	16.2	+5°9	6.0	8.4 v	
57	+5°9	634	3 9	14.8	+5°9	29.9	8.4 v	
58	+5°8	588	3 9	49.5	+5°8	38.2	8.4 v	
59	+5°8	594	3 11	57.5	+5°8	12.2	8.2 v	
60	+5°8 (5°8)	576	3 12	7.0	+5°8	11.7	6.9 v	
61	+5°7	720	3 12	26.5	+5°6	56.7	8.0 v	
62	+5°8	599	3 13	52.5	+5°8	10.7	7.4v	
63	+5°8	600	3 14	13.4	+5°8	54.9	8.2 v	
64	+5°8	602	3 15	52.9	+5°8	42.9	7.8 v	
65	+5°7	724	3 15	28.6	+5°7	45.8	8.5 v	
66	+5°8	607	3 18	21.9	+5°8	22.1	5.0 v	
67	+5°8	608	3 18	33.6	+5°8	57.7	6.6 v	
68	+5°9	656	3 16	22.3	+5°9	5.9	8.5 v	
69	+5°9	660	3 17	21.9	+5°9	26.0	4.5 v	
70	+5°9	657	3 16	38.6	+5°9	44.1	6.7 v	
71	+5°9	655	3 15	3.3	+5°9	53.1	7.3 v	
72	+5°9	654	3 14	50.8	+5°9	45.6	8.0 v	
73	+5°9	648	3 13	31.7	+5°9	57.8	8.0 v	
74	+6°0	678	3 13	54.2	+6°0	53.9	8.4 v	
75	+6°0	693	3 20	25.3	+6°0	28.2	9.5 v	
76	+5°9 (6°9)	671 (701)	3 22	6.3	+5°9	54.5	8.9 v	
77	+5°9 (5°9)	670	3 22	4.6	+5°9	48.3	8.5 v	
78	+5°9	675	3 23	13.8	+5°9	32.6	7.0 v	
79	+5°9	672	3 22	34.2	+5°9	14.4	8.0 v	
80	+5°8	617	3 21	42.8	+5°8	55.8	8.0 v	

Cards made out

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January 9, 191[illegible] (cont)
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No.	Class	Dist.	Remark
81	A2	8	
82	B8	3	
83	A0	2	
84	F8	6	
85	K	2	
86	B8	4	
87	B9	3	
88	A3	21	
89	B9	3	Difficult.
90	K0	3	
91	K0	43	
92	G	2	
93	F0	6	
94	B8	3	
95	B8	4	Kline is stronger than normal for this class.
96	F8	3	
97	M	2	
98	F5	3	
99	K0	6	
100	A	21	Nearly all superposed on 99
Time 10.40	101	A	3
" 10.55	102	A0	4
	103	A2	7
	104	A	2
	105	K0	6
	106	G5	2
	107	K0	21

No	Q.M.		R.A.		Dec.		Mg.	
81	+5.8	6.19	3 21	56.6	+5.8	16.4	7.0	v
82	+5.8	6.23	3 23	8.3	+5.8	5.5	8.4	✓
83	+5.7	7.29	3 22	6.6	+5.7	45.3	8.0	✓
84	+5.7	7.30	3 22	14.6	+5.7	~~14.6~~ 22.2	7.0	✓
85	+5.8	6.28	3 25	48.3	+5.8	11.2	9.0	✓
86	+5.9	6.77	3 23	47.7	+5.9	2.1	8.0	✓
87	+5.9	6.88	3 25	~~58.8~~ 44.1	+5.9	1.4 18.8	8.8	✓
88	+5.9	6.83	3 25	58.8	+5.9	10.9	8.9	✓
89	+5.9	6.85	3 27	0.7	+5.9	6.0	8.3	✓
90	+5.8	6.31	3 27	37.3	+5.8	47.1	7.4	✓
91	+5.8	6.32	3 27	46.6	+5.8	57.2	7.1	✓
92	+5.8	6.33	3 27	51.4	+5.8	53.6	7.8	✓
93	+5.8	6.37	3 29	29.3	+5.8	22.3	6.3	✓
94	+5.8	6.38	3 30	21.6	+5.8	16.5	8.9	✓
95	+5.7	7.39	3 31	28.9	+5.7	5.6	8.0	✓
96	+5.7	7.40	3 34	10.1	+5.7	24.1	8.5	✓
97	+5.7	7.47	3 36	50.6	+5.7	18.7	8.4	✓
98	+5.8	6.46	3 34	0.9	+5.8	23.4	8.4	✓
99	+5.9	6.98	3 30	48.0	+5.9	29.6	6.0	✓
100	+5.9	7.00	3 30	50.8	+5.9	30.8	9.0	J
101	+5.9	7.03	3 31	57.2	+5.9	2.8	8.7	✓
102	+5.9	7.08	3 33	21.7	+5.9	5.3.0	8.0	✓
103	+6.0	7.35	3 32	46.0	+6.0	5.7.8	7.3	✓
104	+6.0	7.40	3 35	5.5	+6.0	24.0	8.6	✓
105	+6.1	6.39 (46)	3 37	15 (41)	+6.1	26.0 (1.2)	7.0 8.8	✓
106	+6.1	6.44 (2)	3 37	41 (8 28)	+6.1	21.2 (18.7)	8.5 7.0	✓
107	+6.0	7.46	3 37	22.6	+6.0	32.7	8.8	✓

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No.	Class	Int.	Remark
108	Ko	2	
109	Y	3	
110	A	2	
111	Y5	2	
112	B5	4	
113	Ko	5	
114	Ko	4	
115	Comp	8	Br = Ko Str = A
116	Ao	2	
117	Ko	7	
118	F8	3	
119	F5	2	
120	Fo	2	
121	Ao	2	
122	G3	6	
123	Fo	10+	Burned out
124	K2	2	
125	Ko	3	
126	Fo	2	
127	A2	3	
128	B9	6	
129	Ko	6	
130	Fo	3	
131	Ao	3	
132	Ao	5	
133	A	2	
134	A	3	

No	R.A.		Dec.		Mg.	
108	3 38 37.5	+60	48.6	8.8		
109	3 39 14.3	+60	54.9	8.4		
110	3 39 21.9	+60	8.5	8.7		
111	3 37 47.6	+60	2.9	8.8		
112	3 38 36.0	+59	40.4	8.5		
113	3 39 52.9	+59	53.0	7.2		
114	3 42 36.4	+60	44.3	7.8		
115	3 44 49.3	+60	40.0	5.8		
116	3 42 43.3	+59	46.1	9.0		
117	3 44 14.3	+59	12.1	7.0		
118	3 46 35.9	+58	11.9	8.2		
119	3 47 51.6	+58	3.6	8.6		
120	3 48 17.9	+59	7.0	9.0		
121	3 48 ~~17.3~~ 41.2	+58	~~55.0~~ 52.0	~~7.0~~ 8.8		
122	3 50 45.1	+58	31.8	8.0		
123	3 52 25.5	+58	44.7	5.0		
124	3 53 6.9	+58	10.0	8.0		
125	3 54 7.2	+58	53.1	8.4		
126	3 54 18.6	+58	51.7	8.7		
127	3 55 13.6	+59	44.5	8.6		
128	3 55 57.4	+60	29.1	7.8		
129	3 57 11.6	+59	32.5	6.5		
130	3 58 8.6	+59	46.0	8.3		
131	3 58 46.4	+59	47.5	8.0		
132	3 59 3.2	+59	41.5	7.5		
133	4 0 20.9	+59	47.9	8.9		
134	4 0 20.8	+59	8.9	8.2		

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No.	Class	Int.	Remark
135	Fo	6	
136	Go	3	
137	B8	3	
138	B8?	2	E.
139	F5	3	E
140	Ao	6	E
141	A2	2	
142	A	1	
143	B9	6	E
144	A	4	E
145	K	6	E
146	A2	3	E
147	Ao	6	E
148	A	2	
149	B8	4	
150	Ao	4	
151	B	8	E. Burned out
152	A	3	E.
153	K	2	Focus poor
154	B8	8	
155	F8	3	
156	Ao	4	
157	G	3	
158	F8	4	
159	Ao	3	
160	Ao	2	
161	B	3	Look up.

No.	D. M.	R. A.	Dec.	Mg.
135	+5°8 7 08	3 57 25.6	+5°8 9.5	7.5 ✓
136	+5°8 7 15	3 57 52.8	+5°8 22.8	8.4 ✓
137	+5°9 7 79	4 3 37.5	+5°9 33.5	8.8 ✓
138	+5°9 7 80	4 4 0.1	+5°9 14.6	8.5 ✓
139	+5°8 7 86	4 5 26.9	+5°8 40.3	9.0 ✓
140	+5°8 7 87	4 5 49.3	+5°8 24.7	7.1 ✓
141	+5°9° 781	4 4 26.6	+5°9 56.8	8.5 ✓
142	+6°0 790	4 5 25.6	+6°0 2.1	9.0 ✓
143	+6°0 792	4 6 6.2	+6°0 7.1	7.0 ✓
144	+6°0 798	4 8 37.6	+6°0 25.8	8.7 ✓
145	+6°0 799	4 9 13.9	+6°0 23.7	5.7 ✓
146	+6°0 633	2 59 22.6	+6°0 23.9	8.2 ✓
147	+6°0 636	3 0 0.0	+6°0 4.4	7.0 ✓
148	+6°0 640	3 1 11.5	+6°0 15.2	8.8 ✓
149	+6°0 651	3 3 56.2	+6°0 34.8	8.0 ✓
150	+6°1 540	3 2 48	+6°1 9.5	7.0 ✓
151	+6°1 523	2 57 8	+6°1 49.1	6.5 ✓
152	+6°1 535	3 0 32	+6°1 57.7	8.5 ✓
153	+6°1 547	3 5 44	+6°1 49.2	8.6 ✓
154	+6°1 559	3 9 22	+6°1 28.1	6.5 ✓
155	+6°2 549	3 10 1	+6°2 12.9	7.5 ✓
156	+6°2 561	3 10 16	+6°2 11.5	7.8 ✓
157	+6°0 667	3 8 48.7	+6°0 45.0	8.6 ✓
158	+6°0 671	3 11 28.9	+6°0 46.1	8.0 ✓
159	+6°0 676	3 11 12.9	+6°0 7.8	9.2 ✓
160	+6°0 673	3 11 48.6	+6°0 13.1	9.0 ✓
161	+6°1 570	3 12 2.6	+6°1 0.9	8.3 ✓

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January 9, 191[illegible] (cont)
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No.	Class	Int.	Remark
162	A2	4	
163	K	2	
164	F5	5K	
165	B	3	lines not distinct enough to put dividers
166	K0	6	
167	B9	3	
168	A0	3	
169	A	2	
170	A	1	
171	B9	3	
172	A	1	
173	K	2	
174	F8	2	
175	A2	2	
176	A	2	
177	A	9	Diffuse edges.
178	F5	6	
179	F8	4	Focus poor
180	A	4	E.
181	K2	6	
182	B9	4	
183	B5	5	
184	B9	4	
185	K2	3	
186	A	3	Maybe 188. Hel. lines not seen
187	K2	2	
188	A	1	

No	Q. M.	R. A.	Dec.	Mg.
162	+61 5·74	3 13 15	+61 5·7.9	8.0 ✓
163	+62 5·71 (6.)	3 13 17	+62 20.1	8.3 ✓
164	+62 5·66	3 14 19	+62 40.3	7.5 ✓
165	+61 5·87	3 16 27	+61 5·8.9	8.6 ✓
166	+61 6·02	3 19 5·7	+61 46.2	7.0 ✓
167	+62 5·74	3 20 2	+62 2.4	8.4 ✓
168	+61 6·04 (3)	3 21 10	+61 44.2	7.7 (9) ✓
169	+61 6·02 (4)	3 21 23	+61 39.9	8.1 ✓
170	+61 6·05	3 21 24	+61 11.2	7.1 ✓
171	+60 7·05	3 23 43.1	+60 40.6	8.7 ✓
172	+60 7·11	3 24 48.5	+60 32.8	9.1 ✓
173	+60 7·20	3 27 17.6	+60 50.9	8.3 ✓
174	+60 7·27	3 28 57.8	+60 34.6	8.3 ~~7.2~~ ✓
175	+60 7·28	3 29 4.8	+60 10.8	8.6 ✓ 727a superposed
176	+60 7·29	3 29 ~~45.6~~ 24.4	+60 ~~57.3~~ 23.3	8.~~4~~ (3) ✓
177	+63 3·90	2 55 14	+63 30.0	6.0 ✓
178	+63 3·95	2 57 11	+63 44.5	7.0 ✓
179	+63 3·98	2 58 45	+63 14.5	7.0 ✓
180	+63 3·99	2 59 52	+63 49.5	8.5 ✓
181	+64 3·91	3 12 9	+64 3.6	6.0 ✓
182	+62 5·75	3 21 19	+62 06.6	9.0 ✓
183	+63 4·26	3 22 1	+63 23.5	7.3 ✓
184	+63 4·30	3 23 9	+63 44.9	8.5 ✓
185	+62 5·82	3 23 37	+62 50.1	8.2 ✓
186	+62 5·79	3 22 17	+62 ~~2.4~~ 9.8	8.~~7~~ (5) ✓
187	+62 5·81	3 22 46	+62 1.9	8.1 ✓
188	+61 6·10	3 23 9	+61 47.4	8.8 ✓

Cancels made

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No.	Class	Int	Remark
189	A5	5	
190	F0	3	
191	F8	7	
192	F5	5	
193	Ma	8	
194	A	1	
195	A	1	
196	G	2	
197	Comp	10	Be = F5 Ft = A Kline = 1/10 of H.
198	B5	4	
~~199~~ 199	A3	8	
200	A	3	Hazy. Another star superposed?
201	K5	1	
202	B9	3	
203	A2	7	
204	A	10+	Burned out
205	F2	3	
206	A0	2	
207	B8	4	
208	B5	5	
209	F5	4	
210	B2	7	Difficult. Definition not very good
211	M	2	0, 6, 10
212	A0	5	
213	F	3	
214	A0	2	
215	Cont.	3	Cluster of Neb. No bright lines

No	Q. M.		R. A.		Dec		Mg.	
189	+62	5·84	3	24 56	+62	28.1	8.5 ✓	Comp. made
190	+62	5·90	3	27 10	+62	40.3	8.5 ✓	
191	+63	4·37	3	27 17	+63	24.5	7.0 ✓	
192	+63	4·36	3	27 15	+63	49.2	7.2 ✓	
193	+62	5·97	3	29 36	+62	45.5	5.0 ✓	
194	+61	6·24	3	28 35	+61	55.7	9.1 ✓	
195	+61	6·28	3	29 47	+61	49.0	8.6 ✓	
196	+62	6·00	3	31 5	+62	38.6	9.0 ✓	
197	+62	6·04	3	33 24	+62	53.1	5.3 ✓	
198	+62	6·08	3	34 50	+62	0.5	7.8 ✓	
199	+62	6·12	3	36 56	+62	56.8	6.5 ✓	
200	+63	4·58	3	40 25	+63	2.4	7.8 ✓	
201	+62	6·18	3	40 57	+62	57.0	8.0 ✓	
202	+62	6·17	3	41 30	+62	52.7	8.2 ✓	
203	+61	6·44	3	39 49	+61	53.2	7.0 ✓	
204	+62	6·28	3	44 46	+62	38.4	5.2 ✓	
205	+62	6·29	3	44 59	+62	20.7	8.0 ✓	
206	+61	6·51	3	46 8	+61	24.4	8.7 ✓	
207	+62	6·46	3	49 17	+62	5.9	7.9 ✓	
208	+62	6·43	3	50 14	+62	0.8	7.5 ✓	
209	+61	6·65	3	52 10	+61	55.4	7.3 ✓	
210	+61	6·68	3	53 28	+61	39.6	7.0 ✓	
211	+61	6·67	3	53 18	+61	23.5	7.5 N	
212	+61	6·68	3	53 21	+61	12.2	7.5 ✓	
213	+60	7·73	3	49 38	+60	20.3	8.5 ✓	
214	+60	7·74	3	49 57	+60	16.4	8.5 ✓	
215	+61	6·76	3	54 2	+61	55.7	8.0 ✓	

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January 9, 1912 (cont)
I 37427

	No.	Class	Sect.	Remarks
	216	A0	6	
	217	B	8	Too hazy to psbdinde. Chris superposed?
	218	G5	4	
	219	K	2	
	220	A5	2	
11.21	221	B8?	10	Binned slit.
11 27	222	K0	3	
	223	B9?	5	E
	224	A3	3	E
	225	Ma	2	
	226	G	3	
	227	Ma	9	E
	228	A	3	
	229	F8	5	
	230	F8	4	
	231	A3	3	E
	232	A	2	
	233	K	2	Poor focus
	234	G0	3	
	235	K0	5	
June 11.30	236	A2	4	E

No.	D. M.	R.A.	Dec.	Mg.
216	+61 673	3 54 43	+61 59.8	8.3 ✓
217	+61 676	3 55 9	+61 56.0	6.5 ✓
218	+62 65 (62)	3 57 (8) 18 (66)	+62 27.0 (39.8)	8.7 ✓ (7.3)
219	+61 681	3 58 0	+61 20.1	7.3 ✓
220	+60 784	3 59 40.7	+60 50.3	9.2 ✓
221	+61 687	4 4 9	+61 29.0	5.5 ✓
222	+61 689	4 4 36	+61 25.6	7.9 ✓
223	+61 692	4 5 24	+61 32.7	7.3 ✓
224	+61 694	4 6 32	+61 14.6	7.8 ✓
225	+61 690	4 4 52	+61 58.7	7.0 ✓
226	+62 226 (669)	4 4 29	+62 13.2	8.0 ✓
227	+64 (65) 488 (369)	3 35 (6) 56 (17)	+64 (3) 17.7 (2.6)	6.7 (4.3) ✓
228	+64 406	3 33 58	+64 10.5	8.8 ✓
229	+64 408	3 35 56	+64 17.9	8.7 ✓
230	+64 482	3 40 34	+64 16.9	8.5 ✓
231	+64 414	3 42 43	+64 59.0	8.3 ✓
232	+63 466	3 45 35	+63 54.1	8.5 ✓
233	+63 469	3 48 31	+63 27.5	8.1 ✓
234	+62 645	3 50 30	+62 51.9	8.2 ✓
235	+63 480	3 53 28	+63 19.9	7.0 ✓
236	+63 491	3 55 56	+63 35.8	8.0 ✓

Count by Miss Allan Jan. 12
Checked by J. C. M. Jan. 25 12

Clouds made out

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June 3h 13m

January 10, 1911

Portion of I 14302

No.	Class	Dist.	Remarks
1	Ao	5	
2	A	2	
3	F8	1	
4	Ao	8	
5	A	10	Burned out.
6	Kp2	4	
7	F5	21	
8	F	8	Near edge
9	A	1	
10	A	1	
11	G5	1	
12	B9	5	
13	F0	4	
14	G5	3	
15	A	1	
16	A	1	
17	Ao	8	
18	A	3	
19	F8	2	
20	F8	2	
21	Go	3	
22	G5	1	
23	Ao	2	
24	Ko	3	
25	A3	4	
26	Go	2	

No.	Dm	Nr.	R.A.	Dec.	Mag.	
1	+51	992	4 43 53.6	+51 20.6	~~8.6~~ 7.0	Cards made out
2	+51	996	4 44 17.6	+51 36.0	8.0 ✓	
3	+51	999	4 44 54.3	+51 51.5	8.2 ✓	
4	+52	898	4 44 39.9	+52 37.3	6.5 ✓	
5	+53	829	4 45 41.3	+53 30.3	5.0 ✓	
6	+52	906	4 48 18.9	+52 53.8	6.4 ✓	
7	+53	836	4 48 20.0	+53 12.6	8.0 ✓	
8	+51	1024	4 55 20.3	+51 23.7	8.2 ✓	
9	+5228	915	4 54 53.2	+52 28.4	8.5 ✓	
10	+53	850	4 55 51	+53 18.6	8.7 ✓	
11	+53	854	4 57 ~~35~~ 17.5	+53 38.8	8.5 ✓	
12	+53	858	4 58 28.1	+53 ~~28.1~~ 21.0	8.1 ✓	
13	+53	863	4 59 54.5	+53 1.3	7.9 ✓	
14	+53	864	5 0 18.0	+53 15.6	7.5 ✓	
15	+52	930	4 59 28.1	+52 34.0	8.6 ✓	
16	+52	928	4 58 26.2	+52 7.1	8.5 ✓	
17	+53	872	5 3 8.4	+53 1.6	6.5 ✓	
18	+51	1046	5 4 38.5	+51 48.0	8.0 ✓	
19	+51	1043	5 2 38.8	+51 14.9	8.0 ✓	
20	+5212	942	5 7 11.5	+52 40.0	8.2 ✓	
21	+53	869	5 2 26.7	+53 50.3	8.0 ✓	
22	+54	874	~~55~~ 5 11.8	+54 0.2	7.5 ✓	
23	+54	878	~~55~~ 6 58.4	+54 13.5	8.5 ✓	
24	+55	945	4 44 54.5	+55 33.1	7.5 ✓	
25	+55	952	4 ~~54~~ 47 48.0	+55 21.2	7.4 ✓	
26	+54	852	4 51 27.7	+54 42.8	7.8 ✓	

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January 10, 1912 (Cont.)
I 14302

No.	Class	Sta.	Remark
27	Q2	4	
28	Q0	2	
29	Y5	3	
30	Bq	4	
31	Y5	2	
32	F8	4	
33	K0	3	
34	A0	2	
35	Bq	4	
36	Bq	3	
37	A0	3	
38	A0	4	
39	Y5	2	
40	A3	7	
41	A0	3	
42	Y5	3	E
43	A2	5	E
44	K	3	
45	A	4	Poor focus
46	Ma	3	
47	Y5	2	
48	Y5	4	
49	B3	10+	Burned out
50	A0	2	
51	Y5	3	
52	Y5	2	
53	3	4	

Mod 5,19
June 3.20

No.	Q.M.	R.A.	Dec.	Mag.
27	+5°4 85'68	4h 52m 37.7	+5°4 39.9	8.0 ✓
28	+5°4 85.7	4 52 48.7	+5°4 46.4	8.4 ✓
29	+5°4 85.9	4 54 36.9	+5°4 11.1	7.2 ✓
30	+5°4 86.2	4 55 [illegible]	+5°4 47.8	7.5 ✓
31	+5°5 95.6	4 54 38.8	+5°5 9.1	7.2 ✓
32	+5°5 95.8	4 55 35.0	+5°5 19.8	7.3 ✓
33	+5°5 95.9	4 55 47.2	+5°5 32.9	7.1 ✓
34	+5°5 96.1	4 56 35.1	+5°5 54.2	8.0 ✓
35	+5°7 85.7	4 56 30.3	+5°7 13.5	7.8 ✓
36	+5°6 101.0	4 58 4.4	+5°6 52.7	8.0 ✓
37	+5°6 101.4	5 1 47.7	+5°6 19.7	7.8 ✓
38	+5°5 97.7	5 5 37.5	+5°5 20.7	7.3 ✓
39	+5°5 96.6	5 0 4.2	+5°5 23.6	8.8 ✓
40	+5°9 82.6	4 30 46.6	+5°9 14.4	6.9 ✓
41	+5°8 86.7	4 30 14.2	+5°8 38.1	8.6 ✓
42	+5°9 82.9	4 32 55.2	+5°9 36.4	8.2 ✓
43	+5°8 87.5	4 35 42.5	+5°8 58.3	8.0 ✓
44	+5°8 77.7	4 36 20.0	+5°8 7.4	8.2 ✓
45	+5°8 78.5	4 41 48.4	+5°8 23.3	8.0 ✓
46	+5°8 78.8	4 44 37.1	+5°8 57.8	7.0 ✓
47	+5°8 79.0	4 45 54.3	+5°8 22.9	7.5 ✓
48	+5°8 79.6	4 48 38.6	+5°8 25.9	8.0 ✓
49	+5°8 80.4	4 53 34.5	+5°8 45.0	6.0 ✓ +58°805 superposed
50	+5°9 85.0	4 54 23.7	+5°9 7.7	8.3 ✓
51	+5°8 80.7	4 54 57.2	+5°8 22.9	8.4 ✓
52	+5°6 99.4	4 49 3H.9 4.6	+5°6 53.4 21.7	8.0 ✓
53	+5°6 86.9	4 33.8	+5°6 54	8.8 ✓ 38778.

Checked March 26, 1912. J.C.M.

Cards made out

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January 10, 1918

June 3.27 — B 2219

No.	Class	Int.	Remarks
1	A	8	E. Poor focus
2	A0	7	"
3	A	3	Very poor
4	A	8	
5a	A2	3	
5	F	10+	Burned spot
6	A	3	
7	F2	5	
8	B8?	3	Austin star superposed?
9	K5	2	E
10	A0	5	
11	A0	3	
12	A	2	E
13	F8	3	
14	F8	4	
15	A	21	
16	A2	1	
17	A	21	
18	K0	3	
19	A2	5	
20	A3	3	
21	F5	2	
22	A0	3	
23	B8	4	Difficult
24	B8	5	"
25	A	2	
26	K5	6	
27	A	3	

Cards made out

No.	Q.M.	Dec.	R.A. h m s	Mg.
1	1043	+43 4.9	4 32 37.9	5.7 ✓
2	1081	+42 20.0	4 42 34.5	6.2 ✓
3	1096	+43 19.2	4 41 13.6	7.0 ✓
4	1116	+43 49.0	4 44 28.3	6.3 ✓
5a	1079	+44 10.7	4 51 1.1	7.5
5	1166	+43 36.2	4 51 34.6	var ✓
6	1177	+43 31.3	4 54 8.2	8.0 ✓
7	1170	+42 58.5	4 56 29.5	6.8 ✓
8	1142	+42 21.2	4 52 41.4	8.0 ✓
9	1023	+41 38.8	4 49 32.3	7.1 ✓
10	1044	+41 13.8	4 53 8.5	6.5 ✓
11	1050	+41 40.1	4 54 46.5	8.0 ✓
12	987	+45 13.0	4 37 23.4	7.0 ✓
13	992	+45 36.1	4 41 4.2	6.5 ✓
14	995	+45 40.7	4 41 47.7	6.6 ✓
15	1052	+44 47.6	4 45 25.8	7.5 ✓
16	1074	+44 38.5	4 49 44.8	7.5 ✓
17	1023	+45 12.9	4 50 43.9	7.5 ✓
18	1024	+45 41.6	4 50 46.5	7.0 ✓
19	1032	+45 34.2	4 53 41.4	6.8 ✓
20	1091	+44 31.6	4 56 6.8	7.3 ✓
21	11187	+44 32.6	5 x0 57.2	8.8
22	1062	+45 28.0	5 1 14.4	8.0 ✓
23	1126	+44 14.8	5 2 7.2	7.5 ✓
24	1128	+44 22.9	5 2 36.8	7.0 ✓
25	921	+46 56.3	4 38 43.5	8.1 ✓
26	1162	+48 28.8	4 40 17.4	5.8 ✓
27	1251	+49 19.2	4 38 42.2	7.5 ✓

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January 10, 1911 (cont)
B2219

No.	Class	Dist.	Remarks
28	F8	2	
29	Ko	5	
30	Bq	4	
31	K5	2	
32	Bq	4	
33	F8	4	
34	F2	8	
35	Bq	3	
36	Bq	3	
37	G3	5	
38	G	2	
39	Bq	5	
40	F5	2	
41	B8	4	Difficult due to superposition of another star.
42	B	2	
43	G3	3	
44	F0	3	
45	F0	10	2

Time 3:35

Cards made out

No.	Q.M.	Dec	R.A.		Mg.
28	1264	+49 ~~24.3~~ 18.8	4 ~~4.7~~ 3	~~20.6~~ 11.8	~~8.5~~ 7.5 v
29	1271	+49 40.6	4 45	57.7	7.0 v
30	1077	+47 38.7	4 46	16.5	7.7 v
31	1089	+47 27.1	4 53	13.1	7.3 v
32	952	+46 ~~32.6~~ 26.	4 52	~~27.4~~ 4.0	7.6 v
33	~~957~~	+46 42.4	4 54	42.6	6.5 v
34	970	+46 46.6	4 59	56.6	6.0 ✓
35	972	+46 45.3	5~~4~~ 0	55.4	8.0 ✓
36	1214	+48 27.3	4 55	8.7	7.9 v
37	1226	+48 55.3	4 58	2.7	7.0 v
38	~~1247~~ 1222	+49 18.3	4 52	58.4	7.9 v
39	1300	+49 51.0	4 54	46.9	7.5 v
40	1301	+49 46.3	4 55	7.3	7.8 v
41	1122	+50 7.3	4 56	12.9	7.5 ✓
42	1043	+51 14.9	5 2	39.8	8.0 ✓
43	1136	+50 23.0	5 4	29.3	7.7 v
44	1323	+49 40.6	5 2	4.1	7.8 v
45	1084	+51 23.7	4 55	20.3	5.2 ✓

Identified by Miss Allen
Checked by A.M.C.

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January 18, 1912

Time 10.03

B 8860

No.	Class	Dur.	Remark
1	B8	10	Burned out
2	K0	3	
3	K5	4	
4	K5	5	
5	K2	4	
6	K5	6	
7	K	2	
8	K0	4	
9	K2	3	
10	K0	3	
11	K5	3	
10.08 12	K3	2	
10.24 13	K3	5	
14	K5	3	
15	K0	6	
16	K0	3	
17	K5	4	Difficult
18	K0	6	2
19	K5	2	
20	K8	3	
21	K	2	
22	K5	3	
23	K	3	
24	K0	2	
25	K	1	
26	K3	4	

1	-48° 637	2	22.4	-48	15.9	4.2	∧	✓
2	-46° 722	2	22.1	-46	33.7	7.5	∧	✓
3	-46° 746	2	27.6	-46	25.5	7.2	∧	✓
4	-45° 843/4	2	33.9	-45	16.6 ~~15.0~~	7.4 ~~7.7~~	∧	✓ Two stars superposed Which is As?
5	-47° 804	2	32.9	-47	11.2	7.6	∧	✓
6	-47° 832	2	37.6	-47	3.0	6.4	∧	✓
7	-47° 829	2	37.2	-47	39.7	7.7	∧	✓
8	-46° 797	2	40.8	-46	49.0	7.0	∧	✓
9	-45° 882	2	40.5	-45	53.5	8.0	∧	✓
10	-45° 913	2	44.5	-45	36.5	7.0	∧	✓
11	-46° 817	2	44.4	-46	52.0	7.3	∧	✓
12	-46° 831	2	46.8	-46	30.6	8.1	∧	✓
13	-47° 922	2	55.9	-47	55.0	7.8	∧	✓
14	-48° 829	2	57.7	-48	3.1	7.6	∧	✓
15	-47° 932	2	58.7	-47	28.1	6.3	∧	✓
16	-48° 839	2 3/4	0.0	-48	20.8	7.6	∧	✓
17	-49° 875	3	5.3	-49	26.3	8.1	∧	✓
18	-49° 884	3	6.4	-49	12.4	6.4	∧	✓
19	-48° 856	3	4.5	-48	29.8	8.3	∧	✓
20	-48° 630	2	19.4	-48	29.0	7.9	∧	✓
21	-48° 625	2	18.6	-48	50.6	7.8	∧	✓
22	-48° 615	2	17.0	-48	53.0	7.7	∧	✓
23	-50° 681	2	17.4	-50	5.7	7.5	∧	✓
24	-50° 675	2	15.8	-50	52.7	7.7	∧	✓
25	-51° 562	2	15.1	-51	21.2	8.3	∧	✓
26	-51° 571	2	18.5	-51	39.7	6.2	∧	✓

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January 18, 1912 (Contd)
B8860

No.	Class	Dist.	Remark
27	F5	3	
28	K0	3	
29	F2	4	
30	F	3	
31	F5	7	
32	G5	4	
33	G	3	
34	F8	7	
35	F5	8	
36	G5	4	
37	Md	3	Hδ bright = 10 Hδ = 1 Hγ=Hp not bright
38	A	3	
39	K2	2	
40	K5	4	
41	G	2	
42	G0	4	
43	F0	8	
44	F8	3	
45	F0	6	
46	K	2	
47	A2	7	
48	A5	3	
49	F0	9	E
50	A3	3	
51	K0	2	
June 10.32	52	K0	4

27	−52°	302	2	22.3	−52	15.9	7.8	1	V
28	−50°	722	2	23.8	−50	51.8	7.3	1	V
29	−51°	598	2	26.1	−51	55.8	7.6	1	V
30	−52°	310	2	26.7	−52	33.3	7.9	1	V
31	−51°	611	2	29.6	−51	38.5	6.5	1	V
32	−51°	616	2	31.3	−51	23.9	7.0	1	V
33	−48°	681	2	29.2	−48	56.4	7.7	1	V
34	−51°	641	2	38.3	−51	20.5	6.6	1	V
35	−50°	800	2	38.4	−50	15.7	7.6	1	V
36	−49° (50°)	848	2	47.8	−50	22.6	7.2	1	V
37	−50°	860	2	49.7	−50	24.2	10.	1	V R Moral.
38	−49°	804	2	52.2	−49	49.8	8.4	1	V
39	−49°	798	2	51.3	−49	26.3	7.8	1	V
40	−51°	683	2	50.1	−51	22.9	6.3	1	V
41	−52°	346	2	49.7	−52	1.1	7.6	1	V
42	−51°	704	3	0.6	−51	48.4	7.6	1	V
43	−53°	457	2	33.3	−53	5.3	6.3	1	V
44	−53°	462	2	34.7	−53	29.6	7.5	1	V
45	−53°	465	2	35.1	−53	28.5	7.0	1	V
46	−53°	468	2	37.5	−53	51.2	8.4	1	V
47	−53°	475	2	40.2	−53	6.0	6.8	1	V
48	−53°	477	2	40.5	−53	18.9	8.2	1	V
49	−55°	446	2	36.8	−56	5.2	6.1	1	V
50	−53°	487	2	47.2	−53	33.1	8.0	1	V
51	−54°	494	2	55.2	−54	11.4	7.6	1	V
52	−54°	497	2	55.9	−54	24.4	7.1	1	V

Identified by J. C. M. March 12, 1912.
Checked April 1 1912 L.D.W.

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January 18, 1912.

June 16.47

B 20263

No.	Class	Int.	Remark
1	G	4	g
2	G5	6	
3	K0	3	
4	F	3	g
5	K0	7	
6	F0	4	
7	F2	5	
8	F	1	
9	F0	6	
10	G	3	
11	F2	4	
12	K0	4	
13	A0	5	
14	F2	4	
15	F5	4	
16	A2	6	g
17	F2	4	g
18	K0	7	g
19	K0	6	
20	F8	5	
21	F0	6	
22	K0	8	
23	G	3	
24	K0	3	
25	A0	5	
26	F5	3	g
27	K0	7	

1	-49° 779	2	46.5	-49	23.0	8.0	∧	∨
2	-50° 848	2	47.8	-50	22.6	7.2	∧	∨
3	-50° 849	2	47.9	-50	43.5	7.8	∧	∨
4	-50° 843	2	47.0	-50	49.3	9.3	∧	∨
5	-51° 683	2	50.1	-51	22.9	6.3	∧	∨
6	-51° 686	2	51.4	-51	45.7	8.4	∧	∨
7	-52° 346	2	49.7	-52	1.1	7.6	∧	∨
8	-50° 868	2	52.2	-50	59.9	9.0	∧	∨
9	-50° 882	2	53.8	-50	39.0	7.9	∧	∨
10	-49° 790	2	49.8	-49	53.0	8.4	∧	∨
11	-49° 791	2	49.8	-49	13.7	8.2	∧	∨
12	-49° 798	2	51.3	-49	26.3	7.8	∧	∨
13	-49° 804	2	52.2	-49	49.8	8.4	∧	∨
14	-49° 820	2	54.9	-49	57.2	8.6	∧	∨
15	-50° 899	2	58.7	-50	21.3	8.0	∧	∨
16	-47° 922	2	55.9	-47	55.0	7.8	∧	∨
17	-48° 829	2	57.7	-48	3.1	7.6	∧	∨
18	-48° 932	2	58.7	-47	28.1	6.3	∧	∨
19	-48° 839	3	0.0	-48	20.8	7.6	∧	∨
20	-49° 859	3	2.0	-49	16.5	8.4	∧	∨
21	-49° 875	3	5.3	-49	26.3	8.1	∧	∨
22	-49° 884	3	6.4	-49	12.4	6.4	∧	∨
23	-48° 856	3	4.5	-48	29.8	8.3	∧	∨
24	-48° 878	3	9.0	-48	15.4	8.0	∧	∨
25	-47° 990	3	8.8	-47	37.4	7.5	∧	∨
26	-47° 994	3	9.4	-47	39.8	8.5	∧	∨
27	-48° 900	3	13.4	-48	12.7	6.2	∧	∨

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3202.63

No.	Class	Int.	Remark
28	Ko	5	
29	Ko	3	
30	Ao	4	
31	Ko	3	
32	Ko	2	
33	Ko	2	
34	Ko	1	
35	A	1	Difficult
36	G5	4	
37	F2	4	
38	K	1	
39	K	10	Burned out
40	Ko	3	
41	Ko	2	
42	G5	3	
43	Go	5	
44	F	6	Too near edge. Focus poor
45	K2	2	
46	B1	10	Burned out.
47	K	3	E
48	F1	5	E
49	G	2	E
50	F2	3	E
51	F5	3	E
52	F	2	E
53	G	2	
54	Ma	3	

28	-48°	930	3	17.5	-48	13.5	7.0	1 ✓
29	-49°	895	3	9.2	-49	47.8	7.7	1 ✓
30	-49°	912	3	13.9	-49	44.7	8.5	1 ✓
31	-50°	1015	3	19.4	-50	26.7	8.5	1 ✓
32	-50°	1026	3	20.9	-50	26.9	8.3	1 ✓
33	-48°	940	3	19.8	-48	38.7	8.4	1 ✓
34	-48°	946	3	21.0	-48	22.5	8.6	1 ✓
35	-48°	945	3	21.0	-48	46.3	9.3	1 ✓
36	-49°	961	3	23.3	-49	17.8	7.4	1 ✓
37	-50°	1066	3	28.2	-50	18.6	8.1	1 ✓
38	-50°	1065	3	27.8	-50	31.8	8.2	1 ✓
~~38~~ 39	-50°	1071	3	28.9	-50	48.2	5.9	1 ✓
~~39~~ 40	-49°	991	3	28.3	-49	35.0	7.5	1 ✓
41	-49°	998	3	29.3	-49	20.1	8.1	1 ✓
42	-49°	1011	3	31.5	-49	50.1	7.7	1 ✓
43	-50°	1090	3	33.2	-50	22.2	7.7	1 ✓
44	-49°	1034	3	34.5	-49	46.6	7.6	1 ✓
45	-49°	1026	3	34.0	-49	25.0	7.3	1 ✓
46	-53°	475	2	40.2	-53	6.0	6.8	1 ✓
47	-53°	472	2	39.6	-53	23.1	8.5	1 ✓
48	-53°	477	2	40.5	-53	18.9	8.2	1 ✓
49	-53°	478	2	41.2	-53	14.4	8.7	1 ✓
50	-52°	343	2	~~44.5~~ 45.0	-52	~~5.4~~ 40.8	~~8.2~~ 4	1 ✓
51	-52°	341	2	44.5	-52	5.4	8.2	1 ✓
52	-51°	664	2	44.3	-51	33.6	8.9	1 ✓
53	-51°	678	2	47.8	-51	59.9	9.1	1 ✓
54	-53°	482	2	45.8	-53	16.6	8.9	1 ✓

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No.	Class	Int.	Remark
55	Y	4	
56	F	6	E
57	F5	4	
58	K5	2	
59	K5	2	
60	F	1	
61	K0	5	
62	K0	7	
63	K5	3	
64	K	1	
65	F8	4	
66	K0	5	
67	G2	5	
68	K5	1	
69	K0	45	
70	G5	6	
71	F8	5	
72	K0	7	
73	Ma	3	
74	G2	3	
75	F2	2	
76	F8	1	
77	K0	2	
78	K0	6	
79	K5	1	
80	K0	2	
81	K	1	

55	-54°	489	2	47.8	-54	4.4	8.4	∧ ✓
56	-54°	487	2	47.2	-54	33.1	8.0	∧ ✓
57	-54°	491	2	48.6	-54	23.6	8.2	∧ ✓
58	-54°	492	2	48.7	-54	35.7	8.8	∧ ✓
59	-54°	488	2	50.0	-54	14.4	8.8	∧ ✓
60	-54°	491	2	52.8	-54	22.3	8.9	∧ ✓
61	-54°	494	2	55.2	-54	11.4	7.6	∧ ✓
62	-54°	497	2	55.9	-54	24.4	7.1	∧ ✓
63	-52°	349	2	55.0	-52	35.7	8.0	∧ ✓
64	-52°	356	3	0.0	-52	44.2	9.0	∧ ✓
65	-53°	515	3	1.0	-53	2.8	8.6	∧ ✓
66	-53°	514	3	1.0	-53	19.0	8.4	∧ ✓
67	-53°	522	3	2.6	-53	4.0	8.4	∧ ✓
68	-53°	529	3	5.2	-53	22.6	9.6	∧ ✓
69	-53°	538	3	8.9	-53	21.3	8.7	∧ ✓
70	-53°	540	3	10.0	-53	8.1	8.4	∧ ✓
71	-51°	699	2	59.9	-51	54.1	7.8	∧ ✓
72	-51°	704	3	0.6	-51	48.4	7.6	∧ ✓
73	-51°	720	3	3.5	-51	56.2	8.3	∧ ✓
74	-51°	718	3	2.6	-51	1.5	8.6	∧ ✓
75	-50°	917	3	2.1	-50	20.7	8.6	∧ ✓
76	-49°	857	3	1.8	-49	59.8	8.2	∧ ✓
77	-50°	928	3	4.2	-50	54.6	8.3	∧ ✓
78	-51°	737	3	6.2	-51	18.3	7.7	∧ ✓
79	-51°	738	3	6.8	-51	13.3	8.8	∧ ✓
80	-50°	940	3	7.0	-50	30.4	8.1	∧ ✓
81	-50°	946	3	7.7	-50	44.4	8.7	∧ ✓

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No.	Class	Dist	Remark
82	Ko	2	
83	F5	6	
84	Ko	3	
85	K	2	
86	K2	2	
87	F0	6	
88	F5	5	
89	G5	4	
90	Ao	4	
91	Ma	3	
92	F8	6	
93	F	2	
94	~~F8~~ B8?	10	Burned out.
95	G5	3	
96	F5	4	
97	G0	3	
98	G5	3	
99	F5	2	Difficult
100	G5	3	
101	A	4	E focus lo[illegible]
102	G5	3	
103	F	8	focus lo[illegible]
104	F	8	"
105	Ko	5	
106	K5	2	
107	F8	3	
108	F0	3	

82	-50°	961	3	10.0	-50	22.5	8.4	1 ✓
83	-51°	749	3	11.0	-51	1.3	7.5	1 ✓
84	-51°	743	3	9.4	-51	34.1	8.3	1 ✓
85	-50°	981	3	13.4	-50	25.5	8.5	1 ✓
86	-51°	757	3	13.2	-51	7.0	9.0	1 ✓
87	-51°	764	3	14.8	-51	45.0	7.7	1 ✓
88	-51°	768	3	15.5	-51	19.9	8.3	1 ✓
89	-52°	388	3	16.5	-52	28.7	8.3	1 ✓
90	-52°	394	3	19.4	-52	20.2	8.3	1 ✓
91	-52°	393	3	19.4	-52	0.1	8.6	1 ✓
92	-51°	779	3	19.2	-51	45.2	7.7	1 ✓
93	-51°	778	3	18.3	-51	26.5	9.2	1 ✓
94	-51°	780	3	20.9	-51	30.0	6.8	1 ✓
95	-51°	801	3	22.2	-51	14.5	8.2	1 ✓
96	-51°	809	3	23.4	-51	4.8	8.5	1 ✓
97	-50°	1038	3	23.6	-50	53.7	8.6	1 ✓
98	-51°	833	3	28.5	-51	14.7	8.3	1 ✓
99	-51°	849	3	30.9	-51	23.2	8.8	1 ✓
100	-54°	854 / 485	3 / 2	32.5 / ~~47.5~~	-54	37.2 / 57.5	8.4 / 7.6	1 ✓
101	-54°	485	2	47.5	-54	57.5	7.6	1 ✓
102	-55°	470	2	47.7	-55	35.4	8.3	1 ✓
103	-56°	474	2	50.7	-56	23.2	7.2	1 ✓
104	-55°	476	2	54.0	-55	31.0	7.2	1 ✓
105	-56°	480	2	55.6	-56	3.8	7.6	1 ✓
106	-55°	482	2	59.0	-55	27.5	8.7	1 ✓
107	-54°	518	3	5.1	-54	28.5	8.9	1 ✓
108	-54°	519	3	6.4	-54	15.9	8.9	1 ✓

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No	Class	Int.	Remarks
109	K2	2	
110	F0	5	
111	K5	4	
112	K	2	
113	Cont.	2	Cluster or Neb.
114	F5	3	
115	F5	4	Focus poor
116	K0	3	
117	F8	2	
118	G0	3	
119	G5	3	
120	G	2	
121	G5	3	
122	G5	4	
123	K0	5	
124	F2	3	
125	B5	5	Focus poor
126	B	6	Cannot subdivide
127	K0	4	Q
128	F2	4	Q
129	K	3	Q
130	K5	5	Q
131	Q0	5	Q
132	K	1	
133	Q	5	Q
134	K	2	
135	K	1	

107	-55°	494	3	6.2	-55	29.9	7.0	∧ ∨
110	-55°	500	3	7.7	-55	21.5	8.1	∧ ∨
111	-55°	495	3	6.4	-55	57.8	8.4	∧ ∨
112	-55°	499	3	7.6	-55	38.0	8.9	∧ ∨
113	-55°	501	3	8.8	-55	41.1	mb.	∧ ∨
114	-55°	502	3	9.2	-55	38.9	8.8	∧ ∨
115	-55°	503	3	11.2	-55	42.5	8.6	∧ ∨
116	-55°	506	3	12.0	-55	5.3	8.8	∧ ∨
117	-53°	541	3	10.2	-53	47.5	9.2	∧ ∨
118	-53°	547	3	13.2	-53	23.0	8.9	∧ ∨
119	-53°	548	3	14.5	-53	18.7	9.2	∧ ∨
120	-53°	549	3	15.3	-53	12.1	9.2	∧ ∨
121	-53°	552	3	17.5	-53	30.3	8.9	∧ ∨
122	-53°	555	3	17.8	-53	18.4	8.4	∧ ∨
123	-52°	399	3	21.8	-52	49.3	8.1	∧ ∨
124	-52°	404	3	23.8	-52	13.8	8.6	∧ ∨
125	-52°	415	3	28.5	-52	53.7	7.6	∧ ∨
126	-52°	421	3	32.2	-52	58.2	7.1	∧ ∨
127	-53°	587	3	33.0	-53	11.4	7.8	∧ ∨
128	-53°	585	3	32.3	-53	37.2	7.8	∧ ∨
129	-53°	588	3	33.7	-53	29.2	8.1	∧ ∨
130	-56°	504	3	8.7	-56	52.4	8.0	∧ ∨
131	-56°	506	3	10.4	-56	31.8	8.0	∧ ∨
132	-55°	512	3	14.3	-55	56.4	8.9	∧ ∨
133	-56°	520	3	15.1	-56	16.6	7.7	∧ ∨
134	-55°	519	3	19.0	-55	8.1	8.7	∧ ∨
135	-54°	547	3	19.4	-54	53.8	9.0	∧ ∨

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January 18, 1912 (Cont.)

B 2021 6 3

No.	Class	Int.	Remark
136	G5	3	
137	K	1	
138	Fo	2	
139	K0	2	
140	K2	3	
141	G5	4	
Time 11.10 142	K5	4	
~~148~~			

136	-54°	545	3	18.2	-54	28.1	8.7	↑	✓
137	-54°	~~545~~ 4	3	~~18.2~~ 17.7	-54	~~28.1~~ 50.3	~~8.7~~ 9.2	↑	✓
138	-54°	548	3	19.7	-54	27.6	8.9	↑	✓
139	-54°	550	3	20.0	-54	36.5	9.0	↑	✓
140	-55°	525	3	23.0	-55	19.7	8.7	↑	✓
141	-55°	534	3	27.1	-55	14.2	8.0	↑	✓
142	-55°	537	3	28.1	-55	40.5	7.7	↑	✓

Identified by J. C. M. March 13, 1912

Checked April 20 1912 D.W.

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January 21, 1912

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Time 11.54

No.	Class	Dist.	Remark
1	Fo	4	
2	Go	4	
3	Fo	3	
4	F5	2	Poor focus
5	Go	3	
6	G5	5	
7	Mi	3	
8	G5	3	
9	Go	3	Partly superposed
10	Go	4	" "
11	G	10	Burned out
12	K3	4	
13	Ko	5	
14	F8	1	
15	Go	3	
16	Ko	2	
17	Ko	4	
18	Ko	6	
19	G5	3	
20	G	1	
21	Fo	3	
22	K3	10	
23	F2	5	
24	G	7	Burned out
25	Fo	3	
26	F8	4	
27	G5	21	

1	−24°	205	0	27	26.6	−24	4.8	8.8	✓	✓	
2	−24°	196	0	26	31.8	−24	59.6	8.6	✓	✓	
3	−25°	190	0	26	41.6	−25	17.0	9.0	✓	✓	
4	−24°	202	0	27	2.9	−24	58.6	9.1	✓	✓	
5	−25°	205	0	28	43.6	−25	7.0	9.0	✓	✓	
6	−25°	207	0	29	12.0	−25	33.2	7.7	✓	✓	
7	−25°	212	0	29	37.0	−25	34.1	8.0	✓	✓	
8	−25°	213	0	29	47.9	−25	18.6	8.3	✓	✓	
9	−25°	221	0	30	34.0	−25	11.0	8.2	✓	✓	
10	−25°	222	0	30	37.6	−25	10.0	8.3	✓	✓	
11	−25°	225	0	30	55.6	−25	27.4	5.8	✓	✓	
12	−25°	233	0	32	12.3	−25	21.2	8.6	✓	✓	
13	−25°	234	0	32	36.2	−25	47.8	6.5	✓	✓	
14	−25°	236	0	32	51.8	−25	43.8	9.1	✓	✓	
15	−25°	242	0	33	13.8	−25	12.6	8.8	✓	✓	
16	−24°	255	0	33	31.5	−24	52.5	8.8	✓	✓	
17	−25°	245	0	33	39.3	−25	42.8	8.5	✓	✓	
18	−25°	264	0	35	24.0	−25	52.8	6.8	✓	✓	
19	−25°	265	0	35	31.2	−25	26.9	8.1	✓	✓	
20	−25°	268	0	35	50.5	−25	37.8	9.3	✓	✓	
21	−24°	219	0	28	47.0	−24	9.8	8.4	✓	✓	
22	−23°	220	0	29	53.6	−23	31.8	6.1	✓	✓	
23	−24°	244	0	32	24.1	−24	17.2	7.2	✓	✓	
24	−24°	263	0	34	15.1	−24	29.0	6.3	✓	✓	
25	−24°	256	0	34	51.6	−23	58.0	8.6	✓	✓	
26	−25°	280	0	37	48.8	−25	33.5	8.3	✓	✓	
27	−26°	245	0	39	53.7	−26	3.9	8.0	✓	✓	

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No.	Class	Dist.	Remark
28	A	5	
29	Y_5	3	
30	Y	4	
31	Y_5	3	
32	Y_5	5	
33	A_3	5	
34	Y_0	4	
35	F_2	4	
36	A_3	6	
37	F8	3	
38	K_0	4	
39	F_5	2	
40	F8	4	
41	F_5	2	
42	Y_0	5	
43	K_0	3	
44	F_2	4	
45	K_0	4	
46	F8	3	
47	Y	2	
48	Y	2	
49	F_0	4	
50	F_0	4	
51	Y_0	2	
52	K_0	4	Hδ is too strong compared with the other Hyd. lines
53	F_2	6	
54	K_0	4	

28	−26°	247	0	40	5.8	−26	13.2	8.0	✓	✓	
29	−26°	252	0	41	11.4	−26	3.5	8.4	✓	✓	
30	−26°	254	0	41	25.6	−26	4.5	8.3	✓	✓	
31	−25°	306	0	41	52.8	−25	45.4	8.1	✓	✓	
32	−26°	171	0	28	48.9	−26	48.9	7.2	✓	✓	
33	−26°	173	0	29	20.0	−26	5.6	8.0	✓	✓	
34	−26°	187	0	31	17.6	−26	26.0	8.4	✓	✓	
35	−26°	188	0	31	27.0	−26	14.9	8.1	✓	✓	
36	−26°	196	0	32	42.5	−26	17.1	8.3	✓	✓	
37	−26°	204	0	33	13.8	−26	40.9	8.2	✓	✓	
38	−26°	206	0	33	57.7	−26	44.0	8.0	✓	✓	
39	−26°	226	0	36	20.7	−26	52.4	8.5	✓	✓	
40	−26°	230	0	37	15.1	−26	36.0	7.9	✓	✓	
41	−27°	212	0	36	48.1	−27	18.0	8.8	✓	✓	
42	−27°	223	0	38	16.4	−27	11.6	7.4	✓	✓	
43	−27°	229	0	39	4.6	−27	48.9	8.8	✓	✓	
44	−28°	226	0	39	2.6	−28	27.3	8.4	✓	✓	
45	−28°	229	0	39	27.1	−28	33.7	8.0	✓	✓	
46	−27°	148	0	26	0.6	−27	29.0	9.0	✓	✓	
47	−27°	164	0	28	18.7	−27	26.0	9.2	✓	✓	
48	−27°	166	0	28	50.2	−27	25.7	9.2	✓	✓	
49	−27°	169	0	29	26.4	−27	33.0	8.1	✓	✓	
50	−27°	173	0	30	0.3	−27	26.7	8.0	✓	✓	
51	−27°	176	0	30	13.9	−27	15.7	9.1	✓	✓	
52	−27°	178	0	30	28.8	−27	58.0	8.0	✓	✓	
53	−28°	168	0	30	32.0	−28	6.8	7.5	✓	✓	
54	−28°	177	0	31	56.6	−28	18.3	7.5	✓	✓	

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January 21, 1912 (Cont.)
B 20456

No.	Class	Dist.	Remark
55	G_0	2	
56	F_2	3	
57	G_0	3	
58	F_8	5	
59	G	2	
60	G	2	
61	K	1	
62	G	2	
63	G_5	3	
64	G_5	2	
65	G_5	2	
66	G_5	3	
67	G_0	2	
68	K_0	3	
68a	K_0	7	
69	G	2	
70	G_5	5	
71	K_0	4	
72	K_0	4	
73	G_5	3	
74	K_0	2	
75	K	1	
76	G_5	2	Prelij. supposed, on 77
77	G_5	3	" " " 76
78	K_0	1	
79	K_0	4	
80	G_0	3	
June 12-15 81	G_5	8	

cont. on page 200

55	−27°	187	0	32	33.9	−27	51.7	8.9	✓✓
56	−27°	196	0	33	45.4	−27	22.3	8.8	✓ ✓
57	−27°	200	0	34	21.3	−27	57.0	8.3	✓✓
58	−28°	195	0	34	37.9	−28	3.4	7.8	✓✓
59	−27°	206	0	35	29.1	−27	56.0	8.6	✓✓
60	−27°	203	0	34	57.7	−27	31.3	8.8	✓✓
61	−28°	206	0	36	28.6	−28	35.3	8.8	✓✓
62	−28°	210	0	36	42.8	−28	23.8	8.7	✓✓
63	−28°	144	0	24	26.5	−28	38.3	8.2	✓✓
64	−28°	148	0	25	36.5	−28	30.8	9.0	✓ ✓
65	−28°	150	0	26	25.1	−28	40.3	8.9	✓ ✓
66	−29°	151	0	27	1.4	−29	39	8.7	✓ ✓
67	−29°	155	0	27	23.3	−29	1.4	9.1	✓ ✓
68	−28°	158	0	28	29.9	−28	43.3	8.7	✓ ✓
68a	−29°	146	0	26	22.3	−29	26.4	8.2	✓ ✓
69	−29°	149	0	26	57.3	−29	46.4	8.8	✓ ✓
70	−29°	160	0	28	18.3	−29	32.9	8.5	✓ ✓
71	−29°	164	0	29	4.4	−29	53.5	8.4	✓ ✓
72	−29°	171	0	30	23.6	−29	32.4	8.2	✓ ✓
73	−30°	175	0	30	49.8	−30	23.8	8.2	✓ ✓
74	−30°	178	0	31	51.8	−30	11.8	8.5	✓ ✓
75	−29°	179	0	31	52.4	−29	26.4	8.9	✓ ✓
76	−28°	186	0	32	59.9	−28	48.3	8.5	✓ ✓
77	−28	187	0	33	7.3	−28	50.3	8.2	✓ ✓
78	−29°	189	0	33	21.7	−29	46.4	8.5	✓ ✓
79	−30°	186	0	33	23.7	−30	30.8	7.6	✓ ✓
80	−30°	194	0	34	22.7	−30	33.3	8.3	✓ ✓
81	−30°	195	0	34	25.2	−30	6.8	6.6	✓ ✓

Cards not used

Sdnt. by A. D. D. Feb. 2, '12.

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January 21, 1912 (~~Sept~~)

June 12.18

B 1511 2 B 20456

No.	Class	Int.	Remarks
1 ~~855~~	K5	2	
2 ~~83~~	K5	5	
3	F5	5	
4	K	2	
5	K0	4	
6	K5	4	
7	a	8	
8	K	2	
9	K5	7	
10	Ma	5	Hδ bright = 7 Whole hyd lines not bright. S Sculptoris
11	X 75	4	E
12	K5	3	
13	K5	5	
14	A	3	
15	F	3	E
16	F	3	E
17	K	4	
18	K	3	
19	F5	2	
20	F5	2	
21	G	1	
22	Ma	10	
23	K	2	
24	K5	1	
25	K	1	
26	F0	4	
27	F2	2	

1	−29°	128	0	22	30.3	−29	35.4	8.4 ✓
2	−29°	125	0	22	1.6	−29	43.9	6.7 ✓
3	−29°	126	0	22	12.4	−29	58.5	6.9 ✓
4	−30°	124	0	20	59.2	−30	16.5	8.1 ✓
5	−31°	154	0	18	48.7	−31	22.6	7.4 ✓
6	−31°	162	0	19	42.3	−31	26.6	7.2 ✓
7	−31°	138	0	16	57.7	−31	42.7	6.6 ✓
8	−32°	108	0	16	29.3	−32	23.7	8.0 ✓
9	−32°	72	0	9	49.7	−32	8.0	5.9 ✓
10	−32°	69	0	9	3.8	−32	44.7	7.5 ✓
11	−32°	66	0	8	34.8	−32	50.9	7.6 ✓
12	−33°	71	0	10	14.6	−33	27.4	7.3 ✓
13	−33°	73	0	10	24.3	−33	22.9	6.5 ✓
14	−34°	88	0	12	37.2	−34	1.1	8.5 ✓
15	−34°	81	0	12	1.4	−34	52.3	8.3 ✓
16	−34°	93	0	12	58.7	−34	35.9	8.5 ✓
17	−34°	104	0	15	16.6	−34	51.4	8.0 ✓
18	−33°	118	0	17	1.5	−33	52.2	8.5 ✓
19	−33°	121	0	17	18.1	−33	33.9	8.4 ✓
20	−34°	126	0	18	26.4	−34	2.1	8.7 ✓
21	−33°	134	0	19	9.7	−33	48.2	9.0 ✓
22	−33°	152	0	21	44.1	−33	42.2	5.2 ✓
23	−32°	119	0	18	53.7	−32	32.3	8.2 ✓
24	−33°	148	0	20	57.0	−33	7.1	8.5 ✓
25	−33°	151	0	21	27.6	−33	4.5	8.6 ✓
26	−32°	136	0	21	16.2	−32	38.7	7.5 ✓
27	−31°	164	0	20	9.8	−31	49.9	8.6 ✓

Wide Wide Wide

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January 22, 1912 (Cont.)

B 1511 21

No.	Class	Int.	Remark
28	F8	3	
29	F8	1	
30	F5	2	
31	K0	4	
32	K0	2	
33	F8	4	
34	G	3	
35	G5	7	
36	G5	2	
37	F8	2	
38	G5	1	
39	K0	3	
40	G0	2	
41	G5	4	
42	G5	2	
43	G	1	
44	G0	2	
45	F8	2	
46	G	1	
47	G	2	Partly superposed on 48
48	G0	4	
49	G5	4	
50	A5	4	
51	F0	6	
52	G5	3	
53	K0	3	
54	K	1	

28	−31°	167	0h	21m	0.8s	−31°	42.7	8.0 ✓
29	−31°	175	0	22	7.2	−31	41.2	8.1 ✓
30	−32°	151	0	22	52.1	−32	18.7	8.3 ✓
31	−32°	154	0	23	37.3	−32	48.3	6.5 ✓
32	−32°	156	0	23	42.5	−32	57.5	7.6 ✓
33	−33°	163	0	23	22.8	−33	15.9	7.4 ✓
34	−30°	138	0	23	44.4	−30	55.2	8.4 ✓
35	−30°	156	0	27	30.1	−30	14.5	5.8 ✓
36	−31°	215	0	27	50.1	−31	0.6	7.5 ✓
37	−29°	164	0	29	4.4	−29	53.5	8.4 ✓
38	−30°	175	0	30	49.8	−30	23.8	8.2 ✓
39	−30°	186	0	33	28.7	−30	30.8	7.6 ✓
40	−30°	194	0	34	22.7	−30	33.3	8.3 ✓
41	−30°	195	0	34	25.2	−30	6.8	6.6 ✓
42	−31°	253	0	34	39.4	−31	32.2	7.6 ✓
43	−31°	252	0	34	23.2	−31	50.7	8.0 ✓
44	−31°	262	0	36	13.8	−31	29.7	8.1 ✓
45	−31°	266	0	37	34.5	−31	7.1	8.3 ✓
46	−31°	271	0	38	2.5	−31	6.1	8.3 ✓
47	−31°	280	0	39	42.1	−31	21.0	8.0 ✓
48	−31°	282	0	39	52.4	−31	28.5	7.4 ✓
49	−30°	228	0	40	31.8	−30	52.6	6.5 ✓
50	−30°	240	0	41	50.4	−30	1.3	7.2 ✓
51	−29°	225	0	42	34.9	−29	10.4	6.5 ✓
52	−32°	274	0	38	40.4	−32	44	7.5 ✓
53	−32°	302	0	41	37.9	−32	2.0	6.8 ✓
54	−31°	292	0	41	25.3	−31	48.4	8.3 ✓

Circle Wall E

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January 22, 1912 (Cont.)

B 15112

No.	Class	Int.	Remark
55	Ko	3	
56	Ko	2	
57	G	1	
58	Ko	2	
59	F5	1	
60	Ao	2	
61	K5	2	
62	Ko	2	
63	Ko	1	
64	Fo	3	
65	A2	2	Difficult.
66	Ko	2	
67	Ko	1	
68	K5	2	
69	F8	6	
70	F8	2	
71	F8	2	
June 12 34 72	F5	1	
73	Ko	7	
74	K5	2	
75	Ko	3	Poor focus
76	K5	2	
77	F	3	
78	K	4	
79			

Most of this region also covered by B12013

55	− 32°	17.6	0	26	15.6	−32	45.0	8.1 v
56	− 32°	18.3	0	27	55.8	−32	58.9	7.8 v
57	− 32°	20.0	0	29	52.7	−32	18.9	8.4 v
58	− 32°	21.7	0	32	12.9	− 32	43.2	8.0 v
59	− 32°	23.9	0	34	22.6	− 32	57.2	9.0 v
60	− 32°	25.4	0	36	13.8	− 32	35.8	8.6 v
61	− 34°	14.6	0	21	5.8	− 34	34.5	7.7 v
62	− 34°	15.6	0	22	26.1	− 34	40.0	8.3 v
63	− 34°	16.3	0	23	39.8	− 34	6.6	8.7 v
64	− 34°	17.9	0	26	42.6	− 34	51.7	8.5 v
65	− 34°	18.1	0	26	54.7	− 34	28.0	9.0 v
66	− 34°	18.9	0	27	43.7	− 34	6.6	8.0 v
67	− 34°	20.2	0	30	5.3	− 34	35.5	8.5 v
68	− 34°	21.5	0	32	23.0	− 34	8.5	8.3 v
69	− 34°	22.4	0	33	48.9	− 34	38.5	6.7 v
70	− 33°	26.7	0	37	12.4	− 33	37.4	8.4 v
71	− 33°	29.3	0	40	26.8	− 33	49.4	8.2 v
72	− 33°	30.0	0	41	36.0	− 33	8.6	8.5 v
73	− 35°	17.0	0	27	36.5	− 35	40.3	6.5 v
74	− 35	16.8	0	27	29.4	− 35	51.6	8.6 v
75	− 36°	20.6	0	31	12.4	− 36	5.9	7.7 v
76	− 35°	14.7	0	22	45.7	− 35	34.6	7.9 v
77	− 36°	14.9	0	23	12.4	− 36	24.6	8.3 v
78	− 36°	11.2	0	16	31.8	− 36	5.2	7.5 v

Identified by A.D.St. Feb. 1, '12.
Checked by J.C.M. March 12, 1912

Corrected

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January 2121, 1912

Time 10.25

I 37428

No.	class	Int.	Remark
1	a	3	
2	25	5	
3	Q	2	
4	Q B9	4	
5	K0	5	
6	K5	6	
7	?	7	
8	?8	6	
9	K2	2	
10	B5	5	
11	Q0	6	
12	Q5	3	
13	K2	3	
14	Q2	5	
15	Q	1	
16	K5	3	
17	Q	2	
18	K	2	
19	Q5	3	
20	K0	4	
21	Q3	4	
22	[illegible]	3	Poor focus
23	Q0	6	
24	Q2	3	
25	Q0	3	
26	K5	4	
27	Q	5	E

No.	D. M.	R. A.	Dec.		Mg.	
1	+43 1404	5 49 46.7	+43	9.6	7.8	✓
2	+43 1332	5 49 43.1	+43	34.6	7.0	✓
3	+44 1338	5 51 12.4	+44	17.9	8.7	✓
4	+43 1423	5 52 8.2	+43	46.8	8.2	✓
5	+43 1421	5 52 25.1	+43	22.3	7.3	✓
6	+42 1473	5 52 53.8	+42	04.6	6.4	✓
7	+42 1477	5 54 37.9	+42	57.2	6.8	✓
8	+44 1353	5 53 04.7	+44	15.9	7.4	✓
9	+44 1359	5 55 12.5	+44	42.0	8.0	✓
10	+42 1486	5 57 27.7	+42	40.9	6.8	✓
11	+43 1466	5 57 13.6	+43	7.5	7.4	✓
12	+43 1478	6 1 3.3	+43	11.3	6.9	✓
13	+43 1474	6 1 0.9	+43	49.5	7.0	✓
14	+44 1383	6 0 56.8	+44	9.5	7.3	✓
15	+43 1480	6 1 42.7	+43	20.6	8.5	✓
16	+44 1381	6 0 34.6	+44	58.5	7.0	✓
17	+45 1257	6 1 10.8	+45	3.3	7.9	✓ +45° 1259 Independent
18	+44 1396	6 2 12.5	+44	47.0	7.0	✓
19	+44 1399	6 4 3.9	+44	37.4	7.7	✓
20	+44 1426	6 11 29.0	+44	7.6	4.7	✓
21	+44 1429	6 11 44.3	+44	28.4	7.3	✓
22	+42 1533	6 9 51.6	+42	50.8	7.4	✓
23	+42 1536	6 10 57.0	+42	23.6	6.5	✓
24	+42 1543	6 12 32.1	+42	58.2	7.7	✓
25	+43 1522	6 12 44.4	+43	17.9	7.4	✓
26	+43 1524	6 13 50.3	+43	17.7	6.9	✓
27	+43 1527	6 14 18.7	+43	36.5	6.9	✓

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January 22, 1912 (cont)

I 3728

No.	Class	Diff	Remark
28	A	3	2
29	Ma	7	
30	A0	3	
31	A0	2	
32	A2	4	
33	A	2	
34	A0	5	
35	B3	6	
36	K0	3	
37	A3	3	
38	Mb	2	Vermilion of the stars
39	A2	7	
40	B9	5	
41	K	1	
42	?	1	
43	B8	6	
44	A	2	
45	A	1	
46	A5	5	
47	G5	3	
48	A0	3	
49	F0	6	
50	K0	4	
51	F5	5	
52	A0	3	
53	G5	2	
54	F0	2	

No.	Q. m.	R. A.	Dec.		Mag.	
28	+44 1442	6 15 33.7	+44	48.4	7.7	✓
29	+45 1217	5 47 11.2	+45	54.7	4.8	✓
30	+45 1225	6 00 38.7	+45	8.7	7.7	✓
31	+45 1227	5 01 26.8	+45	40.8	8.2	✓
32	+45 1235	5 03 49.0	+45	34.1	7.0	✓
33	+45 1239	5 04 39.1	+45	00.0	8.5	✓
34	+45 1248	5 57 37.0	+45	33.2	7.0	✓
35	+46 1091	5 53 48.0	+46	35.0	7.0	✓
36	+46 1105	5 57 21.3	+46	45.8	7.2	✓
37	+47 1260	5 59 59.3	+47	32.3	7.7	✓
38	+47 1258	5 59 22.3	+47	43.1	8.0	✓
39	+47 1261	6 0 10.8	+47	54.9	7.2	✓
40	+47 1265	6 1 40.5	+47	20.8	7.8	✓
41	+47 1267	6 2 26.7	+47	18.0	8.5	✓
42	+46 1116	6 3 7.2	+46	33.4	9.0	✓
43	+46 1119	6 4 9.7	+46	24.9	7.3	✓
44	+45 1270	6 4 52.0	+45	08.0	8.0	✓
45	+45 1278	6 6 12.5	+45	40.8	8.3	✓
46	+46 1121	6 6 29.7	+46	4.1	7.0	✓
47	+45 1281	6 6 38.7	+45	53.3	7.2	✓
48	+46 1123	6 7 5.0	+46	1.0	7.7	✓
49	+46 1122	6 6 47.2	+46	26.6	6.5	✓
50	+46 1124	6 7 29.5	+46	23.2	6.5	✓
51	+47 1285	6 8 9.6	+47	25.7	6.8	✓
52	+47 1287	6 9 41.3	+47	10.2	8.2	✓
53	+46 1129	6 9 18.6	+46	42.3	8.2	✓
54	+46 1127	6 8 47.7	+46	17.3	9.1	✓

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January 22, 1912 (Cont.)
I 3728

No.	Class	Dist.	Remark
55	A 2	6	
56	K0	3	
57	F5	3	
58	A0	4	E
59	B8	3	
60	B9	7	E
61	K0	5	E
62	A0	4	
63	B8?	8	Burned out
64	F5	6	
65	K0	2	
66	F5	1	
67	F0	2	
68	B0	6	Difficult
69	A	1	
70	A0	3	
71	A	2	
72	K5	2	
73	A0	2	
74	A	2	
75	A0	8	
76	A0	2	
77	B5	6	
78	A	4	
79	A5	1	
80	K5	8	E Focus poor
81	F8	4	"

No	Q. m.		R. A.		Dec.		Mg.	
56	+46	1135	6 11	38.7	+46	14.4	6.9	✓
56	+45	1289	6 11	3.4	+45	40.9	7.0	✓
57	+47	1292	6 13	37.2	+47	11.4	7.8	✓
58	+46	1141	6 14	37.3	+46	36.1	8.2	✓
59	+46	1142	6 15	30.4	+46	52.7	8.3	✓
60	+47	1299	6 16	07.2	+47	29.3	7.0	✓
61	+46	1149	6 19	12.7	+46	46.9	6.8	✓
62	+48	1330	5 49	16.8	+48	12.6	8.3	✓
63	+46	1227	5 49	08.1	+46	52.0	6.0	✓
64	+47	1236	5 51	44.7	+47	47.7	6.7	✓
65	+47	1237	5 52	6.8	+47	58.0	7.0	✓
66	+48	1079	5 49	36.7	+48	36.7	8.5	✓
67	+48	1084	5 51	38.6	+46	37.4	8.3	✓
68	+48	1339	5 54	48.8	+48	10.4	6.8	✓
69	+48	1346	5 56	57.3	+48	42.6	8.3	✓
70	+49	1454	5 56	8.6	+49	28.7	8.0	✓
71	+49	1457	5 57	50.7	+49	7.1	8.3	✓
72	+49	1459	5 58	32.0	+49	4.1	7.9	✓
73	+48	1349	5 59	2.1	+48	58.7	8.3	✓
74	+49	1463	6 0	7.0	+49	2.5	8.2	✓
75	+48	1352	6 0	30.2	+48	44.9	6.0	✓
76	+48	1358	6 2	7.7	+48	30.7	8.0	✓
77	+48	1361	6 4	3.3	+48	52.1	7.7	✓
78	+49	1474	6 6	9.8	+49	31.7	7.0	✓
79	+49	1477	6 7	15.0	+49	12.6	8.0	✓
80	+49	1488	6 13	44.3	+49	21.3	6.0	✓
81	+48	1387	6 16	31.8	+48	51.7	7.0	✓

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January 22, 1912 (cont)
I 37428

No.	Class	Dur.	Remark
82	Q2	3	E
83	K	2	Poor focus
84	F	3	
85	K	3	Poor focus
86	B8	8	
87	Q3	2	
88	Q0	4	
89	A	2	
90	Q3	2	
91	F	1	
92	G5	6	
93	G5	6	
94	Q2	3	
95	F5	3	
96	A	2	
97	K0	6	
98	A	2	
99	A	2	
100	A	2	
101	A	2	
102	A	2	Difficult
103	G5	6	E
Trace 10.45 104	Q3?	1	

No.	D.M.		R.A.		Dec.		Mg.	
82	+48	1297	5 30	48.7	+48	22.4	7.0	✓
83	+48	1302	5 34	27.7	+48	07.9	8.9	✓
84	+48	1450	5 35	20.6	+48	3.9	7.7	✓
85	+50	1225	5 36	3.3	+50	1.5	7.1	✓
86	+48	1398	5 34	42.5	+48	46.0	5?7	✓
87	+50	1232	5 37	47.6	+50	2.2	8.7	✓
88	+48	1409	5 38	39.2	+48	47.2	8.1	✓
89	+48	1411	5 39	36.4	+48	1.7	8.7	✓
90	+48	1311	5 40	16.7	+48	33.8	8.0	✓
91	+48	1414	5 40	23.8	+48	18.0	8.5	✓
92	+48	1423	5 40	56.6	+48	0.0	6.5	✓
93	+48	1428	5 48	7.7	+48	54.3	6.0	✓
94	+49	1432	5 49	22.6	+49	07.3	8.3	✓
95	+49	1436	5 50	7.6	+49	28.6	8.1	✓
96	+48	1331	5 49	17.6	+48	02.0	8.6	✓
97	+48	1333	5 50	36.7	+48	06.8	6.5	✓
98	+49	1441	5 51	34.6	+49	02.3	6.0	✓
99	+50	1263	5 52	27.1	+50	14.3	9.0	✓
100	+49	1443	5 52	07.7	+49	03.3	8.8	✓
101	+49	1452	5 55	52.6	+49	07.6	8.3	✓
102	+49	1484	6 07	17.0	+49	08.2	8.8	✓
103	+51	1163	6 2	20.4	+51	11.9	6.0	✓
104	+49	1464	6 1	5.6	+49	58.2	8.3	✓

Identified by C.R.A. Feb. 15, 1912
Checked by A.M.C. Feb. 26, 1912

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January 22, 1912

Time 10.48 — J I 37429

No.	Class	Int.	Remark
1	Bo	3	
2	B5	8	
3	K	2	
4	A5	2	
5	A	2	
6	A5	3	
7	B5	9+0	
8	A2	1	
9	A2	6	
10	B8	4	
11	K2	7	Poor focus
12	F5	6	
13	A5	4	
14	A	3	
15	K	2	
16	A0	2	
17	B8	10+	Burned out
18	A	2	
19	A	2	
20	A	2	
21	F5	2	
22	A	4	Partly superposed on 23
23	B5	4	
24	B8	5	
25	B0	4	
26	A	1	
27	A3	8	

1	+39°	1416	5	38	47.0	+39	28.7	6.5	✓
2	+39°	1418	5	39	8.1	+39	7.6	4.7	✓
3	+38°	1303	5	39	21.1	+38	41.0	7.0	✓
4	+38°	1305	5	39	41.3	+38	38.3	7.9	✓
5	+39°	1421	5	39	58.1	+39	31.3	8.0	✓
6	+40°	1424	5	40	5.8	+40	3.1	7.4	✓
7	+39°	1429	5	41	26.6	+39	6.0	4.0	✓
8	+39°	1430	5	41	51.1	+39	31.2	7.7	✓
9	+39°	1435	5	42	34.6	+39	31.9	7.8	✓
10	+38°	1318	5	42	14.6	+38	31.1	7.2	✓
11	+37°	1336	5	41	9.9	+37	15.5	5.0	✓
12	+37°	1347	5	43	36.2	+37	17.7	6.8	✓
13	+36°	1297	5	46	0.8	+36	54.1	7.3	✓
14	+36°	1301	5	46	34.7	+36	51.2	7.5	✓
15	+37°	1365	5	47	56.0	+37	29.6	7.2	✓
16	+37°	1374	5	48	57.5	+37	33.6	8.4	✓
17	+37°	1380	5	49	50.8	+37	12.1	3.0	✓
18	+36°	1324	5	50	0.5	+36	1.7	8.0	✓
19	+36°	1332	5	51	49.1	+36	30.5	7.8	✓
20	+37°	1385	5	50	56.5	+37	43.21	8.3	✓
21	+38°	1350	5	50	57.8	+38	4.4	8.5	✓
22	+38°	1356	5	52	0.9	+38	26.7	8.1	✓
23	+38°	1357	5	52	4.9	+38	42.7	7.3	✓
24	+38°	1366	5	54	39.5	+38	34.8	7.0	✓
25	+37°	1405	5	55	5.7	+37	58.0	6.7	✓
26	+38°	1368	5	55	18.1	+38	23.9	8.8	✓
27	+38°	1377	5	56	36.5	+38	29.9	6.0	✓

Cards made out

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January 22, 1912 (cont.)

I 37429

No.	Class	Int.	Remarks
28	G5	2	
29	A3	4	
30	F2	1	
31	A0	4	
32	A	2	
33	F5	2	
34	B9	6	E
35	K0	2	
36	A	2	
37	A0	7	
38	A0	3	
39	F0	6	
40	G5	3	
41	K	1	
42	A	2	
43	F0	5	
44	F8	3	
45	G	2	
46	A2	3	
47	F0	7	
48	A5	2	
49	A2	5	
50	A	2	
51	A	2	
52	A0	3	
53	K5	2	
54	K	2	

28	+38°	1382	5	57	33.5	+38	54.4	7.0	✓
29	+37°	1421	5	58	14.7	+37	59.7	7.2	✓
30	+37°	1422	5	58	24.8	+37	44.9	8.2	✓
31	+38°	1391	5	59	35.5	+38	19.0	7.5	✓
32	+37°	1426	5	59	23.8	+37	48.3	8.9	✓
33	+37°	1428	5	59	58.8	+37	35.4	8.0	✓
34	+36°	1360	5	57	38.8	+36	11.1	6.8	✓
35	+36°	1364	5	58	8.1	+36	4.6	7.4	✓
36	+37°	1434	6	0	58.4	+37	43.4	8.5	✓
37	+37°	1443	6	3	38.5	+37	11.4	7.0	✓
38	+37°	1448	6	4	9.7	+37	21.2	7.9	✓
39	+36°	1388	6	5	53.3	+36	11.5	6.6	✓
40	+37°	1459	6	6	11.3	+37	41.9	7.5	✓
41	+38°	1447	6	8	40.5	+38	16.7	7.8	✓
42	+38°	1450	6	8	56.3	+38	19.2	8.6	✓
43	+38°	1452	6	9	43.7	+38	29.4	7.0	✓
44	+40°	1433	5	41	56.5	+40	55.2	7.8	✓
45	+40°	1435	5	42	21.2	+40	6.5	8.5	✓
46	+40°	1846	5	43	24.0	+40	22.8	8.1	✓
47	+41°	1304	5	45	41.2	+41	17.5	7.0	✓
48	+40°	1466	5	47	40.4	+40	46.6	8.1	✓
49	+40°	1469	5	48	6.5	+40	45.8	7.5	✓
50	+39°	1453	5	46	4.1	+39	40.7	8.5	✓
51	+38°	1331	5	46	31.1	+38	25.5	8.1	✓
52	+38°	1333	5	46	47.0	+38	33.6	7.8	✓
53	+38°	1335	5	46	58.3	+38	14.8	7.3	✓
54	+38°	1337	5	47	28.2	+38	36.3	7.3	✓

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January 22, 1912 (Cont.)
I 3729

No.	Class	Int.	Remark
55	K2	4	
56	F	2	
57	F5	4	
58	G5	2	
59	B8	3	
60	Ko	5	
61	B8	3	
62	Ko	5	
Trine 11.00	63	K	2
" 11.03	64	A	1
65	Bq	4	
66	A	2	
67	F8	3	
68	A	3	
69	F5	2	
70	F8	2	
71	A2	4	
72	A3	2	
73	A0	8	Trine 4128-31 Ring
74	A	3	
75	A0	3	
76	F	3	
77	K0	4	
78	A	2	
79	A0	5	
80	G0	3	
81	Bq	6	

55	+38°	1341	5	48	32.3	+38	51.9	7.0	✓
56	+38°	1347	5	50	21.3	+38	32.8	8.7	✓
57	+40°	1472	5	49	8.4	+40	0.8	7.6	✓
58	+39°	1480	5	50	13.9	+39	51.5	7.3	✓
59	+40°	1488	5	55	43.4	+40	41.3	7.5	✓
60	+41°	1357	5	57	8.0	+41	51.8	6.3	✓
61	+41°	1369	5	58	47.8	+41	33.8	7.7	✓
62	+41°	1365	5	58	8.2	+41	4.2	6.7	✓
63	+41°	1371	5	59	15.4	+41	15.5	7.5	✓
64	+41°	1378	6	0	19.3	+41	9.8	8.6	✓
65	+41°	1383	6	0	48.6	+41	14.8	7.5	✓
66	+41°	1385	6	1	5.5	+41	27.1	8.2	✓
67	+40°	1506	6	0	26.3	+40	35.8	7.7	✓
68	+40°	1508	6	0	54.2	+40	33.3	7.9	✓
69	+39°	1522	5	58	0.5	+39	13.3	8.0	✓
70	+39°	1512	5	56	33.4	+39	6.5	8.3	✓
71	+39°	1533	5	59	32.6	+39	11.4	8.0	✓
72	+40°	1513	6	2	54.1	+40	54.1	8.4	✓
73	+41°	1392	6	3	25.0	+41	43.9	7.3	✓
74	+41°	1394	6	3	38.8	+41	29.6	8.0	✓
75	+41°	1396	6	4	31.7	+41	47.2	8.0	✓
76	+42°	1510	6	4	35.2	+42	10.0	8.0	✓
77	+42°	1514	6	5	31.0	+42	4.6	8.1	✓
78	+42°	1509	6	4	3.9	+42	50.3	8.8	✓
79	+40°	1540	6	7	5.7	+40	56.0	7.6	✓
80	+40°	1543	6	7	29.7	+40	21.6	7.5	✓
81	+40°	1545	6	7	37.3	+40	14.0	7.4	✓

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January 22, 1912 (Cont.)
I 3742.9

No.	Class	Det.	Remark
82	Ko	3	
83	a	2	
84	K	3	Another star superposed ?
85	Lo	3	
86	Ao	5	
87	Mk	2	
88	fo	2	
89	f8	2	
90	g	3	Focus poor
91	f	2	E
92	g5	4	
93	K	2	E
94	g	3	Focus poor
95	a	2	
96	A2	2	
97	g5	2	
98	A	4	Focus poor
99	Ao	5	
100	f5	4	
101	K	2	
102	a	3	
103	a	2	
104	f	2	
105	B5	5	
106	A	2	
107	B	1	
108	B9	4	the N.p. of two plates

82	+39°	1575	6	7	29.0	+39	54.1	7.0	✓
83	+39°	1578	6	7	47.0	+39	57.5	8.6	✓
84	+39°	1576	6	7	39.4	+39	31.0	6.9	✓
85	+39°	1579	6	7	49.0	+39	10.6	8.2	✓
86	+39°	1553	6	4	14.4	+39	42.6	7.9	✓
87	+39°	1559	6	5	9.5	+39	58.9	8.0	✓
88	+39°	1584	6	9	1.4	+39	49.8	8.2	✓
89	+39°	1589	6	9	29.4	+39	52.5	8.1	✓
90	+41°	1415	6	9	20.6	+41	8.8	8.0	✓
91	+40°	1576	6	12	12.5	+40	34.1	8.0	✓
92	+40°	1581	6	13	27.0	+40	35.1	7.0	✓
93	+40°	1583	6	13	41.3	+40	52.6	8.3 7.7	✓
94	+42°	1429	5	42	2.6	+42	12.9	8.4	✓
95	+43°	1379	5	45	1.4	+43	33.2	8.2	✓
96	+42°	1434	5	44	19.4	+42	18.9	8.7	✓
97	+42°	1440	5	46	29.1	+42	29.1	8.2	✓
98	+41°	1319	5	48	13.2	+41	44.4	8.1	✓
99	+41°	1322	5	49	4.3	+41	53.8	7.5	✓
100	+41°	1329	5	50	47.3	+41	55.1	7.9	✓
101	+42°	1466	5	50	51.3	+42	9.6	8.5	✓
102	+41°	1338	5	52	47.4	+41	57.6	8.1	✓
103	+41°	1342	5	53	44.4	+41	17.8	8.4	✓
104	+41°	1343	5	53	52.6	+41	11.2	8.1	✓
105	+42°	1486	5	57	27.7	+42	40.9	6.8	✓
106	+42°	1493	5	59	0.0	+42	25.2	8.5	✓
107	+41°	1384	6	0	54.7	+41	56.8	7.8	✓
108	+42°	1502	6	1	14.6	+42	12.0	7.9	✓

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January 22, 1912 (cont)
I 37429

No.	Class	Dist.	Remark
109	f8	2	
110	f8	2	
Time 11.12 111	f8	3	

Cards made out

109	+42°	14.50	5	47	42.9	+42	49.1	8.0 N
110	+42°	14.63	5	50	18.4	+42	43.5	8.2 ✓
111	+42°	14.69	5	52	13.5	+42	52.5	8.3 ✓

Identified by A.D.K. Feb. 3, '12.
Checked by J. C. M. Feb. 26, 1912

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January 22, 1921

Time 11.18

I 37227

No.	Class	Att.	Remark
1	Ko	4	
2	Ko	6	
3	Ao	3	
4	Ao	5	
5	A2	4	
6	Ao	7	
7	A3	6	
8	A	1	
9	Ko	3	
10	Ao	5	
11	Ao	4	Line 4026 prem
12	K5	3	
13	Ao	5	
14	A	2	
15	Ao	7	Partly prefurfured
16	Fo	4	R " "
17	G5	2	
18	B9	4	
19	G	2	
20	G	2	
21	B9	9	
22	G5	3	
23	K	1	
24	Ao	3	
25	B9	7	
26	A3	8	
27	F2	3	

1	+82° 76	2	46.8	+82	19.9	8.0	✓
2	+80° 86	2	27.2	+80	49.8	5.9	✓
3	+79° 69	2	10.0	+79	56.8	8.3	✓
4	+80° 70	2	3.3	+80	2.8	7.7	✓
5	+79° 61	1	50.7	+79	57.5	7.5	✓
6	+80° 64	1	51.8	+80	35.8	6.1	✓
7	+80° 65	1	52.6	+80	45.7	6.7	✓
8	+80° 61	1	46.9	+80	17.2	8.6	✓
9	+80° 58	1	39.7	+80	10.6	6.8	✓
10	+80° 55	1	34.1	+80	9.8	7.5	✓
11	+80° 57	1	34.9	+80	39.2	7.5	✓
12	+81° 61	1	38.4	+81	14.3	6.8	✓
13	~~+81° 61~~ +80° 50	~~1~~ 1	~~38.4~~ 25.0	~~+81~~ +80	~~14.3~~ 40.6	~~6.8~~ 7.4	✓
14	+81° 51	1	28.9	+81	44.8	8.7	✓
15	+80° 36	1	6.2	+80	7.9	6.7	✓
16	+80° 35	1	5.6	+80	5.8	7.3	✓
17	+80° 34	1	4.4	+80	47.5	8.0	✓
18	+81° 30	0	52.5	+81	10.9	8.3	✓
19	+81° 29	0	51.6	+81	28.1	8.6	✓
20	+81° 27	0	50.9	+81	19.3	8.6	✓
21	+81° 25	0	49.6	+81	5.6	var.	✓
22	+81° 18	0	38.5	+81	10.5	7.6	✓
23	+80° 19	0	36.2	+80	20.4	8.4	✓
24	+80° 10	0	21.2	+80	34.1	7.9	✓
25	+79° 10	0	17.9	+79	14.5	7.0	✓
26	+78° 1	0	1.5	+78	54.8	6.5	✓
27	+79° 798	23	55.4	+79	29.5	7.5	✓

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January 22, 1913 (Cont)

I 37 27

No.	Class	Int	Remarks
28	A5	3	Y band perhaps asso. Mayfr. Comps.
29	F	2	
30	A	2	
31	A	1	
32	K	1	Difficult
33	A2	2	
34	A5	3	
35	A0	4	
36	F2	2	
37	A	2	
38	A	3	E
39	A5	2	
40	A5	3	
41	A2	5	
42	A3	5	Partly superposed
43	A2	3	" "
44	F0	4	
45	F	3	
46	F	3	
47	K0	4	
48	G5	3	
49	G	5	
50	G5	2	
51	A	2	
52	G5	2	
53	K	2	
54	A	2	

28	+78° 85	1	23	50.1	+78	57.0	7.8 ✓
29	+79° 79 (6)	5	23	46.1	+79	2.4	8.3 ✓
30	+79° 79 (93)	3	23	41.8	+79	45.2	8.3 ✓
31	+80° 78 (93)	3	23	58.2	+80	16.6	8.8 ✓
32	+80° 79	1	23	51.0	+80	32.5	8.4 ✓
33	+81° 83	8	23	45.4	+81	1.8	8.0 ✓
34	+80° 78	4	23	40.6	+80	33.9	8.0 ✓
35	+80° 78	0	23	37.1	+80	29.9	7.8 ✓
36	+80° 77 (6)	4	23	30.9 29.7	+80	41.9 (3) 52.9	8.X ✓
37	+80° 77	0	23	25.8	+80	12.4	8.2 ✓
38	+79° 79	0	23	34.0	+79	1.1	8.2 ✓
39	+79° 75		2	18.4	+79	4.8	7.5 ✓
40	+79° 68		2	7.2	+79	6.5	7.7 ✓
41	+78° 73		1	59.9	+78	29.0	7.3 ✓
42	+79° 63		1	56.6	+79	0.1	6.7 ✓
43	+78° 71		1	56.2	+78	59.5	7.3 ✓
44	+78° 69		1	53.2	+78	38.3	7.3 ✓
45	+78° 66		1	47.6	+78	10.9	8.1 ✓
46	+76° 63		1	50.8	+76	34.8	5.3 ✓
47	+77° 73		1	48.5	+77	12.0	6.3 ✓
48	+77° 65		1	40.4	+77	28.0	6.5 ✓
49	+77° 58		1	27.6	+77	13.5	6.5 ✓
50	+78° 62		1	43.8	+78	59.7	8.3 ✓
51	+79° 56		1	36.7	+79	29.5	8.6 ✓
52	+78° 62		1	28.2	+78	35.7	8.0 ✓
53	+79° 51		1	31.2	+79	31.3	8.0 ✓
54	+78° 49		1	22.8	+78	24.8	8.5 ✓

Corrections made

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January 22, 1912 (cont.)

I 37 21 27

No.	Class	Int.	Remark
55	K	2	
56	K	2	
57	A2	8	Lines sharp.
58	K0	3	
59	A0	4	
60	F2	6	
61	A0	10	
62	K0	4	
63	F2	5	
64	A2	2	
65	A0	4	Line 4128-31 strong and perhaps 4077 strong.
66	G5	1	
67	A5	6	
68	K0	3	
69	K	1	
70	A	2	Very poor
71	K0	4	
72	G5	5	
73	B8	7	Focus poor
74	A	4	E
75	G5	6	
76	A3	5	
77	K	2	
78	K2	1	
79	F5	3	
Time 11.38	80	G5	4
	81	K	1

55	+78° 45	1	18.8	+78	24.2	8.5	✓
56	+78° 40	1	12.4	+78	20.1	8.3	✓
57	+77° 49	1	11.2	+77	57.5	6.0	✓
58	+78° 36	1	9.3	+78	15.1	7.5	✓
59	+79° 39	1	9.2	+79	21.6	8.0	✓
60	+79° 36	1	3.9	+79	8.0	6.5	✓
61	+78° 34	1	0.0	+78	54.3	5.6	✓
62	+79° 29	0	57.1	+79	13.5	6.4	✓
63	+79° 24	0	48.6	+79	46.4	6.5	✓
64	+78° 28	0	51.0	+78	37.3	8.1	✓
65	+79° 19	0	41.6	+79	2.2	7.8	✓
66	+77° 29	0	41.2	+77	49.2	8.2	✓
67	+77° 27	0	40.5	+77	9.7	6.7	✓
68	+77° 25	0	38.4	+77	40.8	7.0	✓
69	+78° 21	0	32.8	+78	23.6	8.0	✓
70	+76° 12	0	25.8	+76	42.1	8.4	✓
71	+76° 14	0	30 8.5	+76	4.7	7.0	✓
72	+76° 10	0	21.7	+76	12.9	6.5	✓
73	+76° 5	0	8.1	+76	8.8	6.5	✓
74	+75° 8	0	10.2	+75	27.7	7.4	✓
75	+75° 86	1	51.8	+75	24.8	5.0	✓
76	+75° 59	1	10.3	+75	28.3	6.2	✓
77	+75° 58	1	10.3	+75	57.7	7.1	✓
78	+76° 39	2	7.6	+76	0.7	7.0	✓
79	+76° 42	1	14.1	+76	54.8	8.0	✓
80	+76° 40	1	8.4	+76	47.5	6.4	✓
81	+76° 82	3	35.0	+81	10.8	8.3	✓

Comp. by J. C. M. Jan. 29 '12.

Checked by A.M.C. Mar. 19, 1912

Carr made out

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January 27, 1912

I 37 [illegible]

June 10:12)

No.	Class	Int.	Remark
1	Bg	9	E
2	Q2	10	E
3	75	4	E
4	Q0	4	E
5	Q	6	E
6	75	3	E
7	K2	3	E
8	75	5	E
9	72	6	
10	Q	2	
11	78	4	
12	70	10	
13	95	2	
14	Q5	10	
15	Q5	2	
16	K	1	
17	K	2	
18	78	4	
19	B8	8	
20	K	1	
21	K0	4	
22	Q0	1	
23	Q2	6	
24	70	4	
25	K0	2	
26	95	3	
27	Q3	8	Nebulosities visible interec for this class.

1	+11°	639	4	32.0	+11	55.2 6.0 ✓
2	+12°	618	4	30.1	+12	13.1 4.0 ✓
3	+12°	620	4	31.0	+12	43.0 6.8 ✓
4	+10°	598	4	29.2	+10	32.8 8.3 ✓
5	+11°	632	4	28.3	+11	7.0 6.7 ✓
6	+11°	627	4	26.7	+11	10.6 8.3 ✓
7	+10°	592	4	24.2	+10	26.9 8.1 ✓
8	+10°	588	4	23.0	+10	25.7 7.8 ✓
9	+12°	598 (608)	4	25.6	+12	56.4 7.0 ✓
10	+13°	692	4	23.4	+13	2.6 8.3 ✓
11	+13°	691	4	23.3	+13	35.3 8.0 ✓
12	+13°	690	4	22.5	+13	25.2 5.7 ✓
13	+13°	688	4	21.4	+13	35.3 7.5 ✓
14	+12°	598	4	20.7	+12	43.4 5.0 ✓
15	+11°	618	4	21.6	+11	51.2 8.2 ✓
16	+12°	597	4	20.4	+12	3.8 8.7 ✓
17	+11°	616	4	20.4	+11	20.4 8.0 ✓
18	+11°	614	4	19.7	+11	25.9 7.5 ✓
19	+10°	577	4	19.5	+10	52.6 6.4 ✓
20	+11°	606	4	17.0	+11	38.7 8.3 ✓
21	+11°	604	4	16.2	+11	49.3 7.0 ✓
22	+11°	602	4	15.7	+11	10.5 8.5 ✓
23	+11°	601	4	15.3	+11	2.6 6.8 ✓
24	+12°	585	4	16.6	+12	34.3 8.2 ✓
25	+12°	584	4	16.0	+12	38.1 7.4 ✓
26	+13°	674	4	15.6	+13	28.9 8.3 ✓
27	+13°	668	4	13.9	+13	43.4 5.7 ✓

Comb wide out

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January 28, 1912 (cont)

I 37487 511

No.	Class	Sect.	Remarks
28	Q5	5	
29	F2	6	
30	F2	6	
31	F0	7	
32	G5	3	
33	F2	3	
34	K0	3	
35	A	2	
36	F8	4	
37	B8	3	
38	G5	1	
39	G5	5	
40	G	2	Very hazy.
41	G0	4	
42	K0	5	
43	A0	3	
44	A2	4	E
45	F5	4	E
46	A3	4	E
47	F	3	E
48	A0	9	E
49	A2	9	E. Seven hyd. lines seen beyond K.
50	A2	9	" " "
51	F0	5	
52	G0	3	
53	G0	4	
54	F8	5	

28	+13° 667	4	13.6	+13	14.5	7.5 ✓
29	+14° 687	4	13.4	+14	4.3	7.4 ✓
30	+13° 665	4	12.7	+13	31.1	6.5 ✓
31	+13° 663	4	11.8	+13	40.6	5.7 ✓
32	+13° 662	4	11.6	+13	56.1	8.0 ✓
33	+13° 661	4	11.0	+13	21.4	7.0 ✓
34	+12° 577	4	11.7	+12	45.1	8.0 ✓
35	+12° 575	4	10.8	+12	33.7	8.8 ✓
36	+12° 592	4	11.5	+11	36.5	7.5 ✓
37	+10° 560	4	12.7	+10	52.7	8.7 ✓
38	+12° 573	4	10.5	+12	12.3	8.5 ✓
39	+13° 659	4	9.6	+13	28.7	6.5 ✓
40	+12° 566	4	6.4	+12	5.0	8.4 ✓
41	+11° 583	4	6.2	+11	58.4	7.0 ✓
42	+12° 564	4	5.8	+12	24.2	6.0 ✓
43	+10° 555	4	9.7	+10	40.7	8.5 ✓
44	+10° 552	4	7.1	+10	22.4	8.1 ✓
45	+10° 551	4	6.6	+10	20.4	7.8 ✓
46	+10° 550	4	6.0	+10	39.5	8.0 ✓
47	+10° 548	4	4.8	+10	48.7	8.2 ✓
48	+13° 648	4	0.9	+13	0.8	6.3 ✓
49	+15° 666	4	31.0	+15	38.4	5.3 ✓
50	+15° 665	4	30.9	+15	30.1	5.3 ✓
51	+15° 661	4	29.9	+15	44.6	6.5 ✓
52	+14° 728	4	29.3	+14	51.0	7.9 ✓
53	+14° 726	4	28.7	+14	57.9	7.5 ✓
54	+15° 656	4	28.4	+15	33.9	7.0 ✓

Comm. Wade

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January 28, 1912 (Cont.)

5 41
I 37437

No.	Class	Dist.	Remarks
55	K	3	
56	K5	10+	Classified from trail.
57	K5	3	
58	F8	4	
59	F0	10	
60	G	3	
61	F0	7	
62	B8?	1	
63	G5	1	
64	G5	1	
65	F0	7	
66	F2	4	
67	F2	6½	
68	F0	10	
69	F0	8	
70	F0	7	
71	Ma	5	
72	F5	3	
73	G5	9½	
74	G	1	Difficult
75	G0	4	
76	A0	5	
77	F0	8	
78	F8	5	
79	F0	10	
80	G0	9	
81	G5	8	

55	+13°	702	4	30.8	+13	48.6	8.3 ✓
56	+16°	629	4	27.6	+16	12.9	1.1 ✓
57	+15°	653	4	27.3	+15	52.1	7.7 ✓
58	+15°	651	4	26.3	+15	11.4	8.5 ✓
59	+14°	720	4	25.7	+14	32.4	6.4 ✓
60	+15°	649	4	25.4	+15	39.3	8.8 ✓
61	+16°	621	4	25.3	+16	1.3	7.5 ✓
62	+15°	648	4	25.2	+15	39.1	9.1 ✓
63	+15°	647	4	24.7	+15	30.2	8.6 ✓
64	+15°	646	4	24.5	+15	41.6	8.8 ✓
65	+15°	645	4	23.6	+15	31.7	6.5 ✓
66	+15°	643	4	23.1	+15	29.4	8.3 ✓
67	+15°	640	4	22.5	+15	48.9	7.5 ✓
68	+15°	637	4	22.3	+15	52.7	5.0 ✓
69	+15°	639	4	22.4	+15	28.1	5.5 ✓
70	+15°	636	4	21.9	+15	19.0	6.0 ✓
71	+14°	711	4	22.9	+14	47.1	7.8 ✓
72	+14°	712	4	23.0	+14	23.2	8.0 ✓
73	+14°	708	4	22.3	+14	28.1	9.0 ✓
74	+14°	707	4	22.1	+14	18.3	8.9 ✓
75	+13°	689	4	21.9	+13	59.9	8.2 ✓
76	+14°	704	4	20.6	+14	31.5	8.5 ✓
77	+14°	702	4	20.2	+14	24.0	6.5 ✓
78	+15°	633	4	20.7	+15	50.8	6.5 ✓
79	+15°	632	4	20.4	+15	32.9	4.0 ✓
80	+15°	631	4	20.3	+15	38.8	4.0 ✓
81	+16°	605	4	20.2	+16	2.5	5.0 ✓

Corrected made 6M

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January 28, 1912 (Cont.)

I 37489 511

No.	Class	Sect.	Remarks
82	Go	4	
83	Fo	10	
84	Go	4	
85	~~Ko~~ F8	6	
86	G5	7	
87	G5	1	
88	G	2	
89	Go	4	
90	Go	5	
91	G5	1	
92	Fo	9	
93	G	10	Burned out.
94	F2	1	Difficult
95	A	2	
96	G5	5	
97	F5	8	
98	G5	2	
99	Ko	1	
100	Go	2	
101	G	2	Poor focus
102	Ao	4	
103	Ao	5	
104	B8	6	
105	B8	4	E
106	Ko	6	
107	B8	4	E
108	Fo	6	E

82	+15°	627	4	19.3	+15	15.5 8.2 ✓
83	+15°	625	4	18.1	+15	16.8 5.0 ✓
84	+15°	624	4	17.8	+15	10.9 7.7 ✓
85	+15°	621	4	17.4	+15	36.3 6.8 ✓
86	+14°	697	4	18.4	+14	24.3 5.0 ✓
87	+13°	686	4	19.9	+13	32.2 9.1 ✓
88	+13°	682	4	18.5	+13	53.5 9.0 ✓
89	+14°	693	4	16.0	+14	25.3 7.8 ✓
90	+14°	690	4	14.6	+14	43.6 7.8 ✓
91	+14°	689	4	14.5	+14	34.0 8.5 ✓
92	+14°	682	4	12.4	+14	44.4 5.9 ✓
93	+15°	612	4	11.5	+15	17.3 3.5 ✓
94	+14°	680	4	11.7	+14	31.4 8.8 ✓
95	+14°	679	4	11.4	+14	20.1 8.0 ✓
96	+15°	607	4	8.6	+15	51.1 7.1 ✓
97	+15°	603	4	7.6	+15	2.3 6.3 ✓
98	+14°	673	4	6.3	+14	15.3 8.5 ✓
99	+14°	672	4	6.2	+14	10.6 7.5 ✓
100	+14°	667	4	5.4	+14	11.3 8.7 ✓
101	+14°	663	4	4.0	+14	34.3 8.8 ✓
102	+15°	594	4	2.9	+15	13.7 8.0 ✓
103	+15°	592	4	2.7	+15	34.6 7.5 ✓
104	+16°	567	4	2.8	+16	15.2 6.5 ✓
105	+16°	561	4	0.5	+16	53.6 8.0 ✓
106	+16°	560	3	59.7	+16	57.3 5.6 ✓
107	+16°	559	3	59.7	+16	8.3 7.5 ✓
108	+14°	657	3	59.5	+14	45.8 6.5 ✓

Cloudy

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January 28, 1921 (Cont.)

5h 11

I 37459

No.	Class	Dist.	Remark
109	F	4	E
110	A	3	E
111	Y	5	Pm faint
112	Q2	3	
113	K0	4	
114	K5	4	
115	F2	4	
116	B8	4	
117	B8	8	
118	F	1	
119	Q3	2	
120	K	1	
121	B9	6	
122	F8	6	
123	G0	5	
124	G0	4	
125	K0	4	
126	G0	3	
127	G5	3	
128	G0	4	
129	F0	5	
130	Q0	10	
131	G0	3	
132	F8	4	
133	Q5	10	Burned out
134	G	10	"
135	G	2	

109	+17°	759	4	30.3	+17	6.3	7.9 ✓
110	+18°	666	4	30.1	+18	26.6	8.5 ✓
111	+18°	661	4	28.8	+18	14.2	6.5 ✓
112	+18°	658	4	28.0	+18	21.4	8.0 ✓
113	+16°	624	4	26.6	+16	40.9	7.3 ✓
114	+16°	625	4	26.7	+16	53.4	7.0 ✓
115	+17°	751	4	26.3	+17	26.3	8.0 ✓
116	+18°	652	4	26.5	+18	6.6	7.8 ✓
117	+17°	750	4	25.2	+17	41.7	6.5 ✓
118	+17°	747	4	24.3	+17	32.1	9.0 ✓
119	+16°	614	4	23.5	+16	53.4	9.2 ✓
120	+17°	741	4	22.9	+17	14.3	9.3 ✓
121	+17°	735	4	21.4	+17	22.0	8.5 ✓
122	+17°	732	4	21.1	+17	33.0	7.0 ✓
123	+17°	731	4	21.0	+17	12.9	7.3 ✓
	+16°	606	4	20.5	+16	57.1	7.8
124	+17°	731	4	21.0	+17	12.9	7.3 ✓
125	+16°	602	4	18.5	+16	42.1	7.2 ✓
126	+16°	601	4	18.3	+16	25.4	8.2 ✓
127	+16°	600	4	18.2	+16	49.3	7.6 ✓
128	+16°	598	4	18.1	+16	30.7	8.3 ✓
129	+17°	722	4	17.6	+17	6.0	8.0 ✓
130	+17°	719	4	17.1	+17	35.6	4.7 ✓
131	+16°	592	4	16.1	+16	33.2	8.2 ✓
132	+16°	591	4	16.0	+16	44.0	8.0 ✓
133	+17°	714	4	15.7	+17	7.3	4.8 ✓
134	+17°	712	4	14.6	+17	12.2	3.7 ✓
135	+16°	584	4	14.4	+16	59.6	8.8 ✓

Cards made out

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January 29, 1912 (cont.)

5-11

T 37757

No.	Class	Dist.	Remark
136	G	1	Nearly st. Subsequent on 137
137	G	2	" " on 136
138	A0	2	
139	A2	8	
140	G5	2	
141	G0	5	
142	G5	21	
143	A2	4	
144	G5	4	
145	G5	2	
146	G0	3	
147	G5	6	
148	F8	6	
149	G5	7	
150	A	5	E
151	F	5	E
152	G	21	E
153	A2	5	E
154	F8	6	Partly superposed on 155 E
155	F8	4	E " on 154
156	G5	4	
157	F5	5	
158	G5	10	Burned out.
159	A0	4	"
160	G0	3	
161	G0	3	
162	F0	7	

136	+16°	59.0	4	15.9	+16	3.6	9.0 ✓
137	+16°	58.9	4	15.9	+16	2.1	8.8 ✓
138	+16°	58.7	4	15.2	+16	16.5	8.0 ✓
139	+16°	58.6	4	15.1	+16	27.6	6.0 ✓
140	+16°	58.5	4	14.4	+16	26.9	8.0 ✓
141	+16°	57.9	4	11.6	+16	10.6	7.3 ✓
142	+17°	70.7	4	10.8	+17	9.8	8.6 ✓
143	+17°	70.5	4	10.3	+17	27.5	8.7 ✓
144	+17°	70.3	4	9.6	+17	53.2	7.7 ✓
145	+16°	57.7	4	9.3	+16	34.3	8.4 ✓
146	+16°	57.6	4	9.2	+16	13.5	8.5 ✓
147	+16°	56.9	4	4.2	+16	54.9	6.0 ✓
148	+18°	59.4	4	2.3	+18	3.0	6.5 ✓
149	+19°	67.2	4	0.7	+19	14.0	6.2 ✓
150	+19°	66.8	3	59.9	+19	20.8	8.0 ✓
151	+18°	58.1	3	58.2	+18	45.2	7.5 ✓
152	+19°	74.5	4	28.2	+19	10.8	8.5 ✓
153	+19°	74.4	4	28.1	+19	27.9	7.6 ✓
154	+19°	74.2	4	27.2	+19	35.0	6.5 ✓
155	+19°	74.0	4	27.2	+19	40.5	7.0 ✓
156	+19°	73.5	4	24.6	+19	2.3	7.5 ✓
157	+19°	73.1	4	21.8	+19	30.8	7.7 ✓
158	+18°	64.0	4	20.1	+18	51.9	3.7 ✓
159	+17°	72.4	4	18.7	+17	52.3	6.9 ✓
160	+18°	63.7	4	18.6	+18	46.0	7.5 ✓
161	+18°	63.6	4	17.4	+18	31.8	7.5 ✓
162	+18°	63.3	4	16.5	+18	42.3	6.5 ✓

Cards made out

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January 28, 1912 (cont)

I 37857

No.	Class	Int.	Remark
163	B9	4	
164	F5	4	
165	O2e	3	
166	F0	6	
167	F8	4	
168	O	4	E
169	F8	2	
170	K	2	
171	F5	5	
172	K	2	
173	F0	4	
174	G	3	
175	O2e	4	E
176	O	8	E
177	O	2	E
178	O	4	E
179	O	4	E
180	B8	8	
181	Comp.	5	Bv = K, Fv = A, Band K barely seen.
182	A0	4	Partly superposed
183	A0	5	"
184	B8	8	E
June 11.02 185	A3	8	E

If faintest plates are needed see I 33567

163	+18°	632	4	16.3	+18	33.3	7.5 ı
164	+18°	629	4	13.1	+18	4.1	7.0 √
165	+17°	709	4	13.0	+17	54.6	8.0 √
166	+18°	624	4	12.0	+18	22.1	6.0 √
167	+18°	623	4	11.8	+18	52.9	7.9 √
168	+19°	698	4	11.0	+19	35.0	8.2 ı
169	+19°	697	4	10.8	+19	22.1	8.7 √
170	+19°	692	4	9.2	+19	12.4	8.0 √
171	+19°	689	4	8.6	+19	18.4	7.8 √
172	+18°	603	4	6.9	+18	36.2	8.5 √
173	+18°	598	4	5.8	+18	30.4	8.0 √
174	+19°	679	4	5.9	+19	12.4	8.3 √
175	+19°	675	4	4.4	+19	8.8	8.0 √
176	+20°	785	4	29.7	+20	23.7	6.0 √
177	+20°	767	4	21.6	+20	39.8	8.7 ı
178	+20°	761	4	20.2	+20	20.9	8.3 √
179	+19°	721	4	18.6	+19	31.3	7.8 √
180	+20°	751	4	15.0	+20	37.9	6.2 √
181	+20°	744	4	13.9	+20	28.3	6.5 √
182	+20°	741	4	13.1	+20	50.3	7.2 √
183	+20°	740	4	13.0	+20	42.2	7.0 √
184	+20°	733	4	10.9	+20	47.7	6.2 √
185	+20°	724	4	8.8	+20	13.6	5.7 √

Clouds made out

Sent by J.C.M. Jan. 29' 12.
Checked by A.D.W. Jan. 31, '12.

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February 9, 1912

Time: 11.15

Eq. B 23762 (checked)

No.	Class	Int.	Remark
1.	g_5	4	E.
2.	g_5	4	E.
3	Ma	4	
4	A	9	E.
5	g_5	6	
6	g_2	5	
7	g_5	7	
8	g_5	4	
9	A_5	3	
10	g_5	7	
11	g_0	4	
12	g_5	1	
13	A_2	8	
14	F_0	8	
15	F_0	5	
16	K_0	2	
17	K_0	7	
18	K_5	1	
19	F_8	6	
20	K_0	5	
21	F_0	5	
22	g	3	
23	F_8	5	
24	K_0	3	
25	F_5	6	
26	g_5	10	Burned out
27	A_2	10	" "

1	Com.	-26° 29′7	0′ 49.6	-26	38.9	8.5	v
2		-27° 29′9	0′ 50.0	-27	1.9	8.2	v
3		-26° 30′0	0′ 50.2	-26	13.5	7.7	v
4		-26° 30′3	0′ 50.7	-26	2.6	7.1	v
5		-26° 31′4	0′ 52.1	-26	33.4	7.0	v
6		-26° 32′1	0′ 53.8	-26	32.4	7.9	v
7		-26° 32′6	0′ 54.5	-26	28.3	7.6	v
8		-26° 32′7	0′ 54.6	-26	37.8	8.2	v
9		-26° 33′4	0′ 55.8	-26	32.7	7.1	v
10		-26° 34′3	0′ 57.2	-26	51.4	7.7	v
11		-26° 35′6	0′ 59.8	-26	58.3	8.0	v
12		-27° 35′3	0′ 59.8	-27	19.8	9.1	v
13		-27° 35′5	0′ 59.9	-27	24.1	8.6	v
14		-27° 35′2	0′ 59.6	-27	36.8	7.7	v
15		-26° 35′7	0′ 59.8	-26	9.2	8.1	v
16		-25° 43′1	1′ 0.6	-25	47.7	8.4	v
17		-25° 43′8	1′ 1.1	-25	31.0	7.3	v
18		-25° 44′4	1′ 1.9	-25	16.6	8.4	v
19		-24° 50′3	1′ 2.4	-24	54.4	8.0	v
20		-24° 44′8	0′ 55.7	-24	3.2	8.1	v
21		-23° 38′3	0′ 57.1	-23	51.2	8.3	v
22		-24° 45′8	0′ 58.9	-24	32.8	8.8	v
23		-24° 47′1	0′ 58.2	-24	56.7	8.7	v
24		-24° 47′4	0′ 58.8	-24	31.8	8.5	v
25		-24° 48′0	0′ 59.7	-24	15.8	8.4	v
26		-24° 48′4	1′ 0.1	-24	39.4	6.3	v
27		-24° 49′6	1′ 1.1	-24	39.4	6.4	v

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B 23762 (about)

No.	Class	Int.	Remark
28	G5	6	
29	G8	5	E.
30	K2	3	
31	F	3	
32	F0	3	
33	G0	4	
34	G5	6	
35	A5	9	
36	A0	2	
37	K2	3	
38	K2	5	
39	G5	5	
40	K0	4	
41	F2	4	E.
42	G0	6	
43	A5	3	
44	K0	5	
45	G	4	
46	A3	9	
47	G	3	
48	A5	2	
49	G5	5	
50	A2	2	
51	A	2	
52	G5	5	
53	K0	7	
54	F5	3	

28	CDM	-23 403	1	0.7	-23	31.0	7.7 v
29	CDM	-22 391	1	0.8	-22	58.9	8.0 v
30	CDM	-23 432	1	5.4	-23	23.9	8.3 v
31	CDM	-24 529	1	6.1	-24	37.8	8.9 v
32	CDM	-24 538	1	7.8	-24	55.8	9.0 v
33	CDM	-24 540	1	8.3	-24	57.8	8.7 v
34	CDM	-24 546	1	9.4	-24	37.0	8.3 v
35	CDM	-24 548	1	9.9	-24	38.0	7.4 l
36	CDM	-24 549	1	10.1	-24	33.7	9.4 v
37	CDM	-23 457	1	8.5	-23	6.5	7.8 v
38	CDM	-23 458	1	8.7	-23	11.0	7.6 v
39	CDM	-22 437	1	9.2	-22	57.1	7.2 l
40	CDM	-22 ~~438~~ 439	1	9.3	-22	23.7	7.5 v = Dm -22° 221 1 (1855.) 8.4 -22 29.6 (1855.) 8
41	CDM	-22 445	1	10.7	-22	27.8	8.2 l = Dm -22° 224 1 (1855.) 7.8 -22 30.7 8.1
42	CDM	-23 461	1	9.1	-23	33.4	7.5 v
43	CDM	-23 462	1	9.3	-23	35.1	5.8 l
44	CDM	-23 468	1	9.9	-23	58.3	8.1 v
45	CDM	-23 473	1	11.1	-23	53.2	8.5 l
46	CDM	-23 477	1	12.4	-23	40.4	7.2 v
47	"	-23 478	1	12.6	-23	29.0	8.4 v
48	"	-23 483	1	13.4	-23	45.7	8.5 v
49	"	-24 863	1	12.3	-24	8.5	8.0 v
50	"	-24 862	1	12.1	-24	23.8	9.1 v
51	"	-25 517	1	12.5	-25	30.4	8.8 l ^ (11.8) 9.1
52	"	-25 524	1	13.5	-25	36.1	7.7 v
53	"	-25 531	1	14.8	-25	45.6	7.5 v
54	"	-24 578	1	14.1	-24	50.0	9.0 v

Carde made

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Fst, 9. 1912

B23762 (sheet)

No.	Class	Fst.	Remark
55	b_0	6	
56	A_5	10	
57	b_5	2	
58	A_2	6	
59	F_5	7	
60	b_5	4	
61	b_0	4	
62	b	3	
63	B_0	2	
64	b_0	2	
65	b_5	7	
66	b_0	2	
67	A_2	3	
68	b_5	4	
69	B	2	
70	B_0	2	
71	A	1	
72	b_5	3	
73	b_0	5	
74	b_0	4	
75	b_0	4	
76	b_0	6	
77	b_0	4	
78	F_8	5	
79	K_0	5	
80	K_5	4	Maybe Mar
81	b_5	3	

		Corr. No.					
55	-24°	588	1	15.8	-24	47.4	8.0 ✓
56	-25°	555	1	17.6	-25	0.8	6.5 ✓
57	~~-25~~ -24	599	1	17.8	-24	42.7	8.4 ✓
58	-25	563	1	18.6	-25	58.6	8.0 ✓
59	-25°	569	1	19.6	-25	22.1	7.6 ✓
60	-27°	365	1	1.8	-27	39.4	8.2 ✓
61	-26°	369	1	2.7	-26	31.8	8.1 ✓
62	-26°	372	1	3.6	-26	11.9	8.5 ✓
63	-26°	376	1	4.6	-26	61	9.0 ✓
64	-25°	462	1	4.4	-25	33.7	9.2 ✓
65	-26°	377	1	4.1	-26	51-3	7.4 ✓
66	-26°	384	1	5.7	-26	37.3	8.6 ✓
67	-27°	389	1	5.5	-27	1.3	9.3 ✓
68	-26°	387	1	6.2	-26	~~-26~~ 58.3	8.0 ✓
69	-27°	393	1	7.2	-27	5.5	8.2 ✓
70	-26°	381	1	5.1	-26	2.6	9.0 ✓
71	-25°	480	1	6.7	-25	53.6	8.3 ✓
72	-26°	417	1	10.7	-26	19.9	7.9 ✓
73	-26°	424	1	12.7	-25	33.3	8.4 ✓
74	-27°	424	1	11.7	-27	40.7	8.7 ✓
75	-27°	426	1	12.2	-27	32.3	9.1 ✓
76	-27°	430	1	12.8	-27	9.4	8.2 ✓
77	-27°	442	1	14.6	-27	24.2	9.1 ✓
78	-27°	451	1	15.8	-27	19.6	8.7 ✓
79	-27°	453	1	16.2	-25	24.6	9.2 ✓
80	-27°	454	1	16.1	-27	53.6	8.0 ✓
81	-26°	459	1	17.8	-26	50.8	8.5 ✓

Under made out

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B 23762 (chart)

Nr.	Class	Int.	Remark
82	K_5	2	
83	A_3	6	
84	K	8	E.
85	K_0	3	
86	K	1	
87	K	2	
88	A_2	4	
89	G	7	Almost continuous for as $H\varepsilon$
90	K_0	6	
91	F_0	2	
92	G_5	6	
93	A_2	5	
94	G_0	4	
95	F_0	5	
96	F_8	3	
97	F_5	3	
98	K	1	
99	G_5	5	
100	G_0	5	
101	G	3	
102	G	3	
103	K	3	
104	G_0	4	
105	G_5	7	
106	G_5	6	
107	G_0	4	
108	K	2	

	Cism No					
82	-26° 467	1	18.9	-26	54.8	9.1
	~~-26° 467 1 17.8 -26 54.8 8.5 ✓~~ -26° 46th 1 18.9 -26 54.8 Large 9.4 Sutherland					
83	-27° 478	1	19.6	-27	6.3	8.1 ✓
84	-28° 288	0	49.9	-28	27.4	8.3 ✓
85	-27° 308	0	52.2	-27	45.8	7.6 ✓
86	-28° 314	0	53.5	-28	7.6	8.5 ✓
87	-27° 341	0	57.2	-27	46.4	8.4 ✓
88	-27° 345	0	58.3	-27	49.8	8.5 ✓
89	-28° 322	0	57.3	-28	32.5	7.9 ✓
90	-28° 336	0	59.5	-28	59.6	8.0 ✓
91	-28° 344	1	0.0	-28	16.0	9.1 ✓
92	-28° 348	1	1.6	-28	22.5	7.8 ✓
93	-29° 333	1	1.6	-29	22.5	8.0 ✓
94	-29° 353	1	3.9	-29	26.2	8.3 ✓
95	-28° 359	1	4.6	-28	26.5	8.4 ✓
96	-28° 359.5	1	4.4	-28	0.6	8.7 ✓
97	-27° 371	1	8.7	-27	32.8	7.3 ✓
98	-29° 374	1	6.5	-29	42.8	8.7 ✓
99	-29° 376	1	6.7	-29	51.3	8.3 ✓
100	-30° 396	1	8.9	-30	3.3	8.3 ✓
101	-30° 400	1	9.4	-30	14.0	8.5 ✓
102	-29° 398	1	10.5	-29	52.4	8.5 ✓
103	-28° 383	1	9.4	-28	54.8	8.5 ✓
104	-28° 394	1	11.8	-28	51.6	8.5 ✓
105	-29° 411	1	12.6	-29	23.0	7.5 ✓
106	-28° 407	1	13.8	-28	53.6	7.6 ✓
107	-29° 414	1	13.1	-29	31.1	8.5 ✓
108	-29° 418	1	13.8	-29	31.5	8.6 ✓

Cards made on

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B.D. +3°762 (short)

No.	Class	Int.	Remark
109	G5	8	
110	G5	3	
111	K0	3	
112	K0	7	
113	G	3	
114	G0	5	
115	Ge	6	Focus favor
116	A5	6	
~~117~~			

Time 11.38

Card made EA

Cam. No.							
109	-29°	42.2	i	14.5	-29	38.5	7.4 v
110	-29°	42.8	i	13.5	-29	26.5	8.0 v
111	-29°	43.9	i	16.9	-29	9.0	8.2 v
112	-29°	44.7	i	18.5	-29	8.0	7.6 v
113	-28°	43.1	i	18.5	-28	42.1	8.8 v
114	-28°	48.3	i	18.9	-28	29.1	7.5 v
115	-29°	43.4	i	19.6	-29	25.5	8.0 v
116	-30°	43.4	i	14.5	-30	15.3	7.6 v

Identified HDW. March 7 1912

Checked by J. C. M. March. 11, 1912

Cam. Bk. ~~45, 188~~

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Feb 9, 1912

B 20245 (short)

No.	Class	Int.	Remarks
1	K	6	E.
2	B?	10+	Burned out.
3	Go	8	
4	F	4	
5	F	3	E.
6	F8	5	
7	A2	2	
8	A0	2	
9	F5	5	
10	G5	2	
11	G5	9	
12	G5	4	
13	F8	3	
14	G5	3	
15	K0	2	
16	F5	4	
17	G0	3	
18	G	1	
19	K	1	
20	G	1	
21	A5	7	
22	F5	2	
23	F5	5	
24	K	10	
25	K5	3	
26	G5	4	
27	F5	9	

1	~~-31° 325~~	0	469	-31	2.2	6.8	
	~~-30 297~~	0	52.6	-30	1.8	4.2	✓
2	-30° 297	0	52.6	-30	1.8	4.2	✓
3	-30 325	0	57.3	-30	11.8	6.5	v
4	-30° 332	0	58.5	-30	28.0	8.9	v
5	-31° 418	0	57.7	-31	4.1	8.0	v
6	-31° 426	0	58.6	-31	9.5	7.5	✓
7	-30° 308	1	1.1	-30	17.0	8.5	v
8	-29° 334	1	1.6	-29	57.3	8.3	v
9	-30° 360	1	2.9	-30	17.1	7.7	✓
10	-31° 455	1	3.0	-31	36.3	8.1	✓
11	-31° 484	1	6.5	-31	27.8	6.6	✓
12	-31° 497	1	7.8	-31	46.7	7.6	✓
13	-32° 484	1	8.6	-32	0.3	8.3	✓
14	-32° 492	1	10.3	-32	2.8	8.1	✓
15	-32° 499	1	10.9	-32	4.2	8.1	✓
16	-31° 526	1	11.2	-31	34.5	8.2	v
17	-32° 517	1	14.1	-32	2.3	8.3	v
18	-30° 415	1	11.3	-30	39.2	8.8	v
19	-30° 422	1	12.7	-30	50.1	8.3	✓
20	-30° 426	1	13.1	-30	38.2	8.8	✓
21	-30° 434	1	14.5	-30	16.3	7.6	✓
22	-30° 435	1	14.7	-30	28.6	8.4	✓
23	-31° 558	1	17.0	-31	16.7	8.2	v
24	-31° 562	1	17.7	-31	36.1	6.1	✓
25	-32° 536	1	16.5	-32	4.8	8.0	✓
26	-31° 560	1	17.5	-31	55.0	7.6	✓
27	-32° 548	1	18.4	-32	28.0	6.9	✓

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B 20245 (clear)

No.	Class	Int.	Remark
28	K	2	
29	F2	3	
30	K0	5	
31	G5	7	
32	G	3	
33	F	6	Focus poor
34	F5	2	" "
35	B/M	2	One bright line seen.
36	F5	6	E.
37	K0	3	
38	F	3	
39	K0	6	
40	F0	3	
41	A0	10	Burned out
42	K0	5	
43	G0	2	
44	G0	3	
45	G5	4	
46	G5	4	
47	G5	3	
48	G0	4	
49	F8	1	
50	K0	3	
51	K	2	The southerne of two stars
52	F8	4	
53	G5	6	
54	G5	8	

28	-32° 552	1 18.8	-32	13.0	8.4 ✓
29	-31° 572	1 19.2	-31	18.7	8.4 ✓
30	-30° 472	1 20.7	-30	55.5	7.3 ✓
31	-30° 478	1 21.3	-30	53.0	7.0 ✓
32	-31° 589	1 21.2	-31	37.3	8.5 ✓
33	-32° 575	1 22.6	-32	8.8	7.3 ✓
34	-32° 577	1 23.1	-32	41.0	8.5 ✓
35	-33° 525	1 21.2	-33	12.1	8.0 ✓
36	-33° 338	0 48.0	-33	0.7	7.5 ✓
37	-31° 376	0 51.7	-31	9.5	7.5 ✓
38	-31° 385	0 53.4	-31	15.5	8.1 ✓
39	~~-32° 396~~	~~0 53.8~~	-32	0.9	7.4
	~~-30° 415~~	~~1 11.3~~	-30	37.2	8.8
	-32° 406	0 56.2	-32	18.1	8.3 ✓
40	-32° 410	0 56.5	-32	13.4	8.6 ✓
41	-32 410	0 56.5	-32	13.4	8.6 ✓
42	-32° 412	0 57.5	-32	44.9	7.6 ✓
43	-32° 415	0 57.9	-32	27.4	8.5 ✓
44	-32° 429	0 59.8	-32	37.1	8.6 ✓
45	-32° 430	1 0.1	-32	31.7	8.0 ✓
46	-32° 452	1 2.8	-32	49.9	7.7 ✓
47	-33° 409	1 1.8	-33	29.1	7.7 ✓
48	-32° 469	1 5.3	-32	54.8	7.7 ✓
49	-33° 441	1 6.7	-33	2.4	8.6 ✓
50	-32° 479	1 7.5	-32	34.0	8.0 ✓
51	-33° 448	1 7.6	-33	29.0	8.3 ✓
52	-33 467	1 10.5	-33	22.6	8.4 ✓
53	-33° 479	1 12.1	-33	47.8	7.0 ✓
54	-33° 498	1 15.9	-33	53.5	6.9 ✓

= C.P.D. -31° 379 1 21.2 - 31 37.0 8.8 mag.
C.P.D. -31° 378 1 21.2 -31 36.4 9.2 "
Subsequent - see chart plate
B 35410 = C.P.D. -31° 378 as set in Cent. Vatican a Van.

Feb. 9, 1912

B 20245 (chart)

No.	Class	Int.	Remarks
55	K0	9	
56	G5	10	Focus poor
57	K0	3	
58	G5	9	
59	G0	3	
60	A5	2	
61	A3	2	
62	G0	5	
63	F	2	
64	A3	6	
65	F2	6	Focus poor
66	A3	7	
67	F	6	
68	G5	4	
Feine 11.56 April 23, 1912			
69	F2	2	
[Additional plates] 70	K2	4	
71	F5	7	
72	G5	8	
73	G5	10	
74	F	4	E.
75	K2	4	E.
76	K5	3	
77	K5	2	
78	K0	5	
79	K2	2	
80	Q	5	E

cont. on p. 178.

55	-34° 334	1	17.5	-34	12.9	6.7	✓
56	-34° 346	1	18.9	-34	47.7	6.6	✓
57	-34° 387	0	55.4	-34	1.9	7.3	✓
58	-34° 411	0	58.7	-34	12.5	6.5	✓
59	-34° 414	1	3.2	-34	16.3	8.5	✓
60	-34° 439	1	2.8	-34	39.2	8.7	✓
61	-35° 407	1	4.4	-35	10.5	8.6	✓
62	-35° 416	1	6.0	-35	27.5	8.3	✓
63	-34° 467	1	7.9	-34	23.5	8.5	✓
64	-35° 483	1	10.3	-34	48.1	8.0	✓
65	~~-34°~~ 35° 411	1	11.5	~~-34~~ 35	17.4	8.0	✓
66	-34° 494	1	12.3	-34	47.7	7.5	✓
67	~~-34°~~ 35° 452	1	13.5	~~-34~~ 35	8.8	8.0	✓
68	~~-34°~~ 35° 472	1	16.7	~~-34~~ 35	19.1	7.5	✓

Identified March 1 1912 L.D.W.

69	-30°	475	1	21.4	-30	22.6	8.3 ✓
70	-30°	490	1	22.9	-30	32.2	8.5 ✓
71	-30°	497	1	23.9	-30	42.2	8.4 ✓
72	-30°	504	1	25.7	-30	37.9	6.8 ✓
73	-30°	506	1	25.9	-30	55.5	6.0 ✓
74	-30°	509	1	26.3	-30	21.2	8.1 ✓
75	-30°	513	1	27.6	-30	34.9	8.0 ✓
76	-31°	614	1	28.4	-31	56.9	7.9 ✓
77	-32°	589	1	28.1	-32	6.1	8.5 ✓
78	-32°	614	1	29.4	-32	2.2	8.3 ✓
79	-32°	582	1	28.8	-32	39.9	8.6 ✓
80	-33°	583	1	22.7	-33	39.5	8.7 ✓

March 11, 1912

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Feb. 9, 1912
B 14372 (short)

Time 11.56

Nr.	Class	Int.	Remarks
1	F	4	E.
2	A0	4	E.
3	A3	3	
4	G5	6	
5	A	6	
6	F8	6	
7	A	10	Burned out.
8	G	2	
9	G5	4	
10	G	3	
11	G0	5	
12	G5	7	
13	A	8	
14	G5	3	
15	F8	6	
16	K	1	
17	K0	4	N.E. of three
18	F5	5	
19	F0	5	
20	A0	10	
21	F8	7	
22	F5	3	
23	G5	2	
24	G5	5	
25	A0	2	
26	K	3	
27	G5	9	

1	-35°	320	0	50.8	-35	20.5	8.5	↑	✓
2	-36°	327	0	50.4	-36	17.8	8.5	↑	✓
3	-36°	357	0	53.4	-36	9.8	8.5	↑	✓
4	-35°	336	0	53.5	-35	18.6	7.5	↑	✓
5	-35°	361	0	58.1	-35	21.2	8.5	↑	✓
6	-35°	374	1	0.4	-35	28.2	8.0	↑	✓
7	-36°	417	1	0.6	-36	19.8	6.5	↑	✓
8	-36°	437	1	3.3	-36	48.3	8.5	↑	✓
9	-37°	434	1	4.3	-37	12.6	7.5	↑	✓
10	-35°	408	1	4.5	-35	43.2	8.7	↑	✓
11	-35°	416	1	6.0	-35	27.5	8.3	↑	✓
12	-35°	420	1	7.0	-35	52.4	6.9	↑	✓
13	-36°	460	1	7.1	-36	24.8	7.3	↑	✓
14	-36°	470	1	8.1	-36	50.3	8.0	↑	✓
15	-37°	467	1	8.6	-37	40.3	8.0	↑	✓
16	-37°	475	1	9.6	-37	59.0	8.3	↑	✓
17	-37°	488	1	11.7	-37	55.5	7.5	↑	✓
18	-37°	493	1	12.1	-37	11.3	8.5	↑	✓
19	-36°	501	1	12.8	-36	54.6	8.3	↑	✓
20	-36°	510	1	14.6	-36	53.6	7.0	↑	✓
21	-35°	441	1	11.5	-35	19.4	8.0	↑	✓
22	-35°	448	1	12.8	-35	29.0	8.7	↑	✓
23	-36°	515	1	15.4	-36	15.9	8.5	↑	✓
24	-35°	474	1	16.9	-35	38.6	8.0	↑	✓
25	-36°	482	1	17.8	-35	58.6	9.0	↑	✓
26	-36°	538	1	18.2	-36	22.5	8.3	↑	✓
27	-37°	521	1	17.0	-37	14.8	6.6	↑	✓

Small scale

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Feb. 9, 1912

B 14872 (chart)

No.	Class	Int.	Remark
28	A3	10	
29	K5	5	
30	A0	5	
31	A5	5	
32	K0	5	
33	F	7	E. Poor focus
34	K5	3	" " "
35	Ae	6	
36	Ma	5	
37	F	4	E.
38	K0	8	
39	G	10	
40	G	10	
41	G	4	
42	G?	3	Too much superposed on 41
42	G5	3	Partly superposed
44	G5	3	1 " "
45	G0	5	
46	G0	3A	
47	G	2	
48	K0	3	
49	G	3	
50	G5	2	
51	G0	2	
52	K	3	
53	A5	10	Burned out
54	F8	4	

28	-37°	516	1	16.5	-37	42.0	6.6	^	✓
29	-38°	484	1	17.4	-38	20.9	7.3	^	✓
30	-38°	491	1	20.0	-38	49.7	8.5	^	✓
31	-38°	499	1	22.2	-38	19.4	8.3	^	✓
32	-38°	505	1	23.0	-38	36.3	7.7	^	✓
33	-38°	518	1	25.2	-38	26.4	8.0	^	✓
34	-39°	~~446~~ 439	1	~~26.7~~ 25.7	-39	41.0	7.5		✓
35	-37°	544	1	21.2	-37	2.1	8.5	^	✓
36	-37°	564	1	23.2	-37	28.9	7.5	^	✓
37	-37°	572	1	24.4	-37	4.6	8.0	^	✓
38	-36°	367	0	64.7	-36	54.8	6.9	^	✓
39	-38°	344	0	55.7	-38	53.0	7.0	^	✓
40	-39°	260	0	56.5	-39	35.3	5.6	^	✓
41	-37°	378	0	57.0	-37	59.2	8.2	^	✓
42	-37°	379	0	57.0	-37	57.0	8.1	^	✓
43	-37°	389	0	58.5	-37	58.2	8.6	^	✓
44	-38°	362	0	58.5	-38	4.0	8.5	^	✓
45	-38°	372	0	59.3	-38	14.0	7.6	^	✓
46	-37°	404	1	0.6	-37	36.2	8.3	^	✓
47	-37°	390	0	58.9	-37	16.2	8.4	^	✓
48	-38°	377	1	0.3	-38	54.6	7.7	^	✓
49	-38°	388	1	2.2	-38	34.4	8.9	^	✓
50	-38°	391	1	2.4	-38	57.3	8.5	^	✓
51	-39°	402	1	2.7	-39	2.3	9.0	^	✓
52	-38°	418	1	6.3	-38	36.0	8.5	^	✓
53	-38°	420	1	7.0	-38	31.1	6.1	^	✓
54	-38°	419	1	6.6	-38	56.0	8.8	^	✓

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Feb. 9, 1912

B 14372 (chart)

No.	Class	Dist.	Remark
55	Ko	5	
56	g5	2	
57	go	4	
58	go	2	
59	g5	3	
60	go	7	
61	Ko	2	
62	F5	4	
63	g5	5	
64	go	4	
65	Ao	4	
66	go	7	
67	g5	3	
68	Ko	7	
69	Fo	8	
70	Ao	6	
71	g5	4	
72	F5	8	
73	Fo	6	
74	go	5	
75	Ko	4	
76	g5	4	

Time 12:10

Cont. in Bk. 59, 154

55	-38°	445	1	11.0	-38	47.2	7.6	^	√
56	-39°	374	1	14.3	-39	13.9	8.7	^	√
57	-39°	379	1	15.3	-39	10.9	8.0	^	v
58	-39°	370	1	13.9	-39	37.3	8.7	^	√
59	-39°	372	1	14.0	-39	50.8	8.5	^	√
60	-40°	309	1	13.9	-40	1.1	7.6	^	√
61	-39°	378	1	14.6	-39	45.8	9.0	^	v
62	-39°	398	1	18.7	-39	33.8	8.4	^	v
63	-40°	336	1	19.5	-40	1.1	7.8	^	√
64	-39°	276	0	57.7	-39	47.8	8.5	^	v
65	-39°	284	0	59.6	-39	29.3	8.5	^	v
66	-40°	239	0	58.9	-40	9.1	7.5	^	v
67	-40°	244	0	0.3	-40	5.1	8.7	^	√
68	-40°	247	1	0.7	-40	31.1	7.0	^	√
69	-40°	240	0	59.6	-40	57.0	7.0	^	v
70	-40°	256	1	3.8	-40	48.7	8.3	^	√
71	-39°	316	1	6.3	-39	49.8	7.7	^	√
72	-40°	273	1	7.7	-40	11.6	7.3	^	√
73	-40°	284	1	10.1	-40	36.5	8.3	^	√
74	-40°	291	1	11.2	-40	11.6	7.5	^	v
75	-40°	294	1	11.8	-40	33.5	8.4	^	v
76	-40°	303	1	12.8	-40	45.5	8.0	^	√

Identified by J. C. M. March 14, 1912.
Checked March 19 1912 J.C.M.

Cards made out

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Time 22 hrs 25 min. I 37578

No.	Class	Int.	Remark
1	A2	6	
2	g5	8	
3	F	2	
4	Ao	6	Line 4128, 31 strongest except hyd.
5	g5	3	
6	Bq	4	
7	F5	2	
8	A	2	
9	F5	4	
10	B8	8	
11	Ao	3	
12	F5	3	
13	g0	4	
14	F0	2	
15	g0	6	
16	A	2	
17	Ao	4	
18	K	2	
19	Bq	3	
20	Bq	5	
21	Ao	3	
22	A2	4	
23	K	1	
24	F0	2	
25	A	1	
26	A2	3	
27	F2	4	

1	+42°	614	2	34.2	+42	55.0	6.8	∧ ✓
2	+43°	566	2	34.7	+43	40.8	5.6	∧ ✓
3	+43°	563	2	34.2	+43	48.3	8.3	∧ ✓
4	+43°	551	2	31.2	+43	28.0	7.0	∧ ✓
5	+44°	552	2	30.5	+44	14.4	8.2	∧ ✓
6	+44°	550	2	30.2	+44	13.0	8.0	∧ ✓
7	+43°	536	2	28.1	+43	19.1	8.4	∧ ✓
8	+43°	534	2	27.8	+43	0.7	8.7	∧ ✓
9	+41°	496	2	27.9	+41	25.9	7.3	∧ ✓
10	+41°	495	2	27.4	+41	45.8	7.3	∧ ✓
11	+41°	485	2	25.7	+41	8.9	8.5	∧ ✓
12	+41°	480	2	24.0	+41	11.3	7.5	∧ ✓
13	+42°	550	2	24.9	+42	8.9	7.7	∧ ✓
14	+42°	548	2	24.5	+42	21.3	8.4	∧ ✓
15	+42°	546	2	24.0	+42	15.5	7.0	∧ ✓
16	+42°	542	2	23.3	+42	5.0	9.0	∧ ✓
17	+41°	474	2	22.3	+41	54.9	7.7	∧ ✓
18	+42°	555	2	26.5	+42	57.1	7.9	∧ ✓
19	+43°	529	2	26.4	+43	33.7	8.2	∧ ✓
20	+44°	534	2	26.2	+44	0.2	7.4	∧ ✓
21	+43°	519	2	24.3	+43	53.5	8.5	∧ ✓
22	+43°	518	2	23.8	+43	48.8	8.3	∧ ✓
23	+43°	527	2	25.9	+43	14.6	8.4	∧ ✓
24	+42°	552	2	25.4	+42	47.2	9.0	∧ ✓
25	+42°	541	2	23.2	+42	30.6	9.2	∧ ✓
26	+42°	530	2	21.0	+42	31.9	8.1	∧ ✓
27	+43°	507	2	21.4	+43	1.6	7.8	∧ ✓

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No.	Class	Int.	Remark
28	$g5$	2	The following of two stars
29	$g5$	4	
30	$g5$	6	
31	$F2$	2	
32	$A2$	2	
33	g	2	
34	K	1	
35	A	2	
36	A	2	
37	$A0$	2	
38	$F5$	2	
39	A	5	E.
40	$K0$	4	
41	$F0$	9	
42	$A0$	3	
43	$A0$	2	
44	$A2$	4	
45	$A0$	3	
46	$g5$	3	
47	Bg	7	
48	$g5$	5	
49	$F0$	4	
50	$A0$	3	
51	A	2	
52	Bg	5	
53	$g0$	4	
54	A	2	

28	+43°	511	2	22.4+43	51.1	8.7	^ ∨
29	+44°	515	2	21.4+44	24.0	8.0	^ ∨
30	+44°	512	2	21.1+44	46.6	7.5	^ ∨
31	+44°	506	2	19.8+44	52.9	8.4	^ ∨
32	+44°	500	2	18.6+44	43.1	8.3	^ ∨
33	+44°	499	2	18.6+44	5.9	8.7	^ ∨
34	+43°	504	2	20.6+43	30.1	8.0	^ ∨
35	+43°	499	2	19.6+43	14.3	8.5	^ ∨
36	+43°	496	2	17.9+43	6.3	8.8	^ ∨
37	+42°	525	2	19.2+42	8.5	8.6	^ ∨
38	+42°	523	2	19.2+42	35.6	8.5	^ ∨
39	+40°	517	2	18.3+40	52.0	8.2	∨
40	+41°	453	2	15.0+41	26.4	6.9	^ ∨
41	+40°	500	2	13.9+40	43.5	6.3	∨
42	+42°	509	2	14.1+42	20.8	8.1	^ ∨
43	+42°	507	2	13.8+42	45.6	8.0	^ ∨
44	+42°	506	2	13.7+42	51.8	7.3	^ ∨
45	+42°	505	2	13.6+42	54.8	8.2	^ ∨
46	+43°	475	2	12.6+43	9.1	7.8	^ ∨
47	+42°	502	2	12.0+42	17.1	6.5	^ ∨
48	+42°	489	2	8.9+42	13.9	6.7	^ ∨
49	+41°	435	2	8.7+41	55.1	7.9	^ ∨
50	+41°	433	2	8.4+41	42.6	8.4	^ ∨
51	+42°	482	2	7.4+42	22.7	8.3	^ ∨
52	+42°	480	2	7.0+42	2.1	7.5	^ ∨
53	+43°	459	2	7.7+43	6.3	7.7	^ ∨
54	+43°	454	2	6.2+43	1.7	9.0	^ ∨

Stars made

S not in catalogue
Two stars, the brighter and most following, the latter is superposed.
m +43 475 a 2 12.6 7.8
+43 489 9.1
is superposed on No. 46

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No.	Class	Int.	Remark.
55	Ko	8	
56	F5	3	
57	Ao	2	
58	A	4	E.
59	B8	5	E.
60	F5	3	E.
61	F5	4	
62	ly	3	
63	A	3	
64	B8	3	
65	ly5	6	
66	gs	3	
67	Ao	4	
68	F8	3	
69	B9	3	
70	F8	4	
71	Ma	2	
72	ly	2	
73	F5	2	
74	Ao	5	
75	F5	3	
76	A	2	
77	F5	3	
78	Ao	4	
79	K	2	
80	F2	7	
81	A5	7	

55	+43°	447	2	4.2	+43	32.9	5.2	∧ ∨
56	+43°	446	2	3.9	+43	9.5	8.3	∧ ∫
57	+41°	418	2	2.5	+41	57.7	8.3	∧ /
58	+41°	412	2	0.7	+41	18.7	8.0	∧ ∫
59	+41°	411	2	0.2	+41	16.5	7.5	∧ ∨
60	+41°	47~~0~~8	1	~~0.2~~ 59.7	+41	~~16.5~~ 29.0	~~7.5~~ 8.0	∧ ∫
61	+42°	4~~58~~56	2	~~58.4~~ 0.1	+42	~~56.0~~ 10.2	~~7.1~~ 7.2	∧ ∫
62	+42°	449	1	59.5	+42	31.2	7.5	∧ ∫
63	+42°	448	1	59.0	+42	27.7	7.8	∧ ∫
64	+42°	445	1	58.4	+42	56.0	8.1	∧ ∨
65	+43°	431	1	59.5	+43	45.0	6.9	∧ ∨
66	+43°	429	1	58.8	+43	39.5	8.0	∧ ∨
67	+44°	573	2	36.8	+44	50.2	8.1	∧ ∫
68	+44°	569	2	35.3	+44	58.4	8.0	∧ ∨
69	+45°	653	2	32.7	+45	1.7	8.7	∧ ∫
70	+44°	558	2	32.3	+44	51.7	8.2	∧ ∨
71	+44°	560	2	32.4	+44	23.1	7.8	∧ ∨
72	+45	650	2	31.1	+45	11.9	8.8	∧ ∨
73	+45°	647	2	30.5	+45	8.1	9.0	∧ ∨
74	+45°	646	2	29.7	+45	34.5	7.8	∧ ∫
75	+45°	641	2	28.8	+45	27.1	8.2	∧ ∨
76	+45°	628	2	26.0	+45	18.8	9.2	∧ ∫
77	+45°	627	2	25.4	+45	17.3	8.2	∧ ∨
78	+46	590	2	25.0	+46	3.5	8.0	∧ ∫
79	+45°	621	2	22.5	+45	31.5	8.4	∧ ∨
80	+45°	620	2	22.4	+45	56.8	7.2	∧ ∨
81	+45°	619	2	21.8	+45	44.8	7.3	∧ ∫

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No.	Class	Int.	Remark
82	g_5	5	
83	A	2	
84	f_2	5	
85	g_5	5	
86	g_5	2	
87	A_3	3	
88	A_2	6	
89	A_0	2	
90	A_2	6	1
91	K_5	2	
92	A_2	9	
93	A	2	Another star superposed.
94	A_0	6	
95	F_5	3	
96	B8	7	
97	A	3	
98	A	2	
99	g_5	2	
100	F_5	5	
101	g	3	Focus poor
102	A_3	3	
103	g_5	2	
104	Mb	5	E.
105	F_5	6	
106	B2?	4	Near edge
107	F_0	4	
108	A_0	5	

82	+45°	614	2	20.4	+45	22.1	6.5	∧ ∨
83	+45°	609	2	16.9	+45	53.7	8.7	∧ ∨
84	+45°	608	2	16.1	+45	15.8	8.2	∧ ∨
85	+44°	483	2	15.8	+44	59.1	7.6	∧ ∨
86	+43°	482	2	14.2	+43	42.3	8.2	∧ ∨
87	+43°	478	2	12.9	+43	36.4	8.0	∧ ∨
88	+43°	474	2	12.4	+43	55.6	6.5	∧ ∨
89	+44°	473	2	13.5	+44	50.4	8.8	∧ ∨
90	+45°	605	2	14.0	+44	30.1	7.8	∧ ∨
91	+45°	600	2	12.2	+45	44.6	7.8	∧ ∨
92	+45°	589	2	9.9	+45	48.2	6.3	∧ ∨
93	+44°	458	2	9.5	+44	57.6	8.7	∧ ∨
94	+45°	583	2	7.9	+45	9.6	7.7	∧ ∨
95	+45°	578	2	6.9	+45	59.6	8.2	∧ ∨
96	+46°	539	2	5.5	+46	0.6	7.0	∧ ∨
97	+45°	570	2	4.5	+45	2.0	8.6	∧ ∨
98	+45°	561	2	2.0	+45	31.4	9.2	∧ ∨
99	+45°	557	2	1.5	+45	14.2	8.2	∧ ∨
100	+45°	554	2	0.1	+45	8.9	7.4	∧ ∨
101	+43°	434	2	0.5	+43	58.7	8.1	∧ ∨
102	+45°	523	1	54.1	+45	4.8	8.3	∧ ∨
103	+44°	406	½	53.0	+44	34.5	8.4	∧ ∨
104	+44°	398	1	49.8	+44	42.3	8.0	∧ ∨
105	+46°	622	2	34.9	+46	13.6	7.2	∧ ∨
106	+46°	617	2	33.9	+46	20.3	7.9	∧ ∨
107	+46°	614	2	32.9	+46	24.8	7.6	∧ ∨
108	+46°	605	2	31.6	+46	56.2	7.7	∧ ∨

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No.	Class	Int.	Remark
109	A	3	
110	g5	7	
111	A	3	
112	F	3	
113	A	3	
114	A	8	Focus poor
115	A0	3	
116	K	2	
117	g5	5	
118	K0	3	
119	g0	4	
120	F8	5	
121	B9	6	
122	g0	3	
123	F	2	
124	K0	2	
125	A5	1	
126	F8	1	
127	A	2	
128	A	2	
129	B5	9	
130	A0	10	
131	A3	7	
132	A3	3	
133	g5	6	
134	F2	8	
135	A	2	

109	+47°	679	2	31.4+47	3.8	9.0	∧ ∨
110	+47°	683	2	33.3+47	38.8	6.7	∧ ∨
111	+47°	681	2	33.0+47	44.3	8.0	∧ ∨
112	+48	734	2	32.2+48	0.7	8.4	∧ ∨
113	+47°	675	2	30.8+47	48.9	8.0	∧ ∨
114	+48°	722	2	30.6+48	55.7	6.7	∧ ∨
115	+48°	710	2	27.5+48	35.3	8.2	∧ ∨
116	+47°	648	2	23.7+47	6.4	8.2	∧ ∨
117	+47°	641	2	21.1+47	9.7	7.3	∧ ∨
118	+47°	640	2	20.9+47	12.2	7.4	∧ ∨
119	+47°	638	2	20.7+47	51.5	7.5	∧ ∨
120	+47°	635	2	19.0+47	38.4	7.5	∧ ∨
121	+47°	631	2	18.1+47	34.4	7.8	∧ ∨
122	+46°	581	2	21.8+46	23.7	8.6	∧ ∨
123	+46°	566	2	15.5+46	23.6	8.6	∧ ∨
124	+46°	565	2	15.1+46	42.3	7.5	∧ ∨
125	+47°	625	2	16.0+47	19.5	8.7	∧ ∨
126	+47°	624	2	15.9+47	23.9	8.5	∧ ∨
127	+47°	621	2	14.7+47	47.6	8.7	∧ ∨
128	+47°	615	2	13.3+47	42.6	8.9	∧ ∨
129	+46°	557	2	11.3+46	38.0	6.5	∧ ∨
130	+46°	552	2	9.9+46	41.8	5.2	∧ ∨
131	+47°	604	2	8.8+47	29.3	7.2	∧ ∨
132	+47°	592	2	7.0+47	33.3	8.8	∧ ∨
133	+47°	590	2	6.6+47	8.0	6.7	∧ ∨
134	+46°	536	2	4.8+46	49.2	6.2	∧ ∨
135	+47°	581	2	3.4+47	11.9	8.8	∧ ∨

Carbon wall on

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Nr.	Class	Fil.	Remark
136	A	3	
137	B8	4	
138	A	3	
139	A	2	
140	A	2	
141	A5	2	
142	A0	4	
143	F8	5	
144	G0	3	
145	K	3	
146	B8	7	
147	A	4	
148	K2	4	E.
149	A	6	E.
150	A0	4	
151	B9	7	
152	G5	3	" " " "
153	Ma	3	The southern, superposed on 154
154	A	5	
155	A	4	
156	F2	7	
157	K2	8	
158	G5	9	
159	G5	4	
160	A2	2	
161	B9	3	
162	G	3	

~~136~~								
136	+47°	580	2	3.1	+47	33.8	8.2	^ ✓
137	+46°	582	2	2.3	+46	32.8	8.0	^ ✓
138	+46°	528	2	1.7	+46	39.3	8.0	^ ✓
139	+46°	527	2	1.2	+46	47.2	8.3	^ ✓
140	+46°	524	2	0.2	+46	29.4	8.8	^ ✓
141	+46°	521	1	59.6	+46	51.0	8.8	^ ✓
142	+46°	515	1	57.8	+46	32.4	8.2	^ ✓
143	+46°	511	1	57.0	+46	10.2	7.0	^ ✓
144	+45°	532	1	55.9	+45	52.5	8.4	^ ✓
145	+45°	521	1	54.0	+45	39.4	7.8	^ ✓
146	+46°	497 (3)	1	53.2	+46	8.7	7.3	^ ✓
147	+50°	591	2	29.0	+50	7.6	8.2	^ ✓
148	+49°	724	2	28.4	+49	51.2	6.6	^ ✓
149	+49°	719	2	27.8	+49	36.2	7.2	^ ✓
150	+49°	701	2	25.5	+49	13.4	7.8	^ ✓
151	+49°	696	2	25.0	+49	25.5	7.0	^ ✓
152	+48°	696	2	24.1	+48	52.0	8.1	^ ✓
153	+49°	682	2	22.4	+49	38.9	7.0	^ ✓
154	+49°	683	2	~~22.4~~ 25.6	+49	33.9	7.8	^ ✓
155	+48°	680	2	19.1	+48	38.3	8.1	^ ✓
156	+49°	666	2	18.2	+49	55.0	6.5	^ ✓
157	+49°	656	2	16.0	+49	36.9	4.9	^ ✓
158	+49°	649	2	14.8	+49	20.5	5.8	^ ✓
159	~~+48°~~ +48.0	~~658~~ 659	~~2~~ 2	~~13.7~~ 13.9	~~+48~~ +48	~~26.9~~ 31.1	~~8.8~~ 8.0	✓
160	+48°	655	2	13.2	+48	16.3	8.5	^ ✓
161	+48°	653	2	11.6	+48	7.7	8.5	^ ✓
162	+48°	652	2	11.5	+48	41.1	8.3	^ ✓

Was made on

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No.	Class	Int.	Remark
163	A	2	
164	Fo	9	
165	A3	3	
166	G5	2	
167	G5	5	
168	Ko	3	
169	Ko	3	
170	A5	3	
171	F5	3	
172	B9	4	
173	Go	5	
174	B3	5	Focus too from to subdivide
175	A2	2	
176	F5	6	
177	B8	10	Burned out
178	K5	2	
179	B9	4	
180	A5	2	
181	F5	6	
182	A	3	E.
183	G5	4	E.

Time 23 hrs 7 min.

163	+48°	650	2	10.5	+48	34.8	9.0 ^ ✓
164	+48°	648	2	10.0	+48	15.7	6.7 ^ ✓
165	+48°	647	2	9.5	+48	14.2	8.3 ^ ✓
166	+48°	642	2	7.1	+48	12.1	7.6 ^ ✓
167	+48°	633	2	5.5	+48	6.7	6.8 ^ ✓
168	+48°	628	2	4.8	+48	24.5	8.0 ^ ✓
169	+46°	621	2	3.7	+48	42.4	7.5 ^ ✓
170	+49°	583	2	3.3	+49	6.1	8.1 ^ ✓
171	+48°	618	2	2.5	+48	54.7	7.8 ^ ✓
172	+47°	565	1	58.0	+47	22.4	8.5 ^ ✓
173	+47°	552	1	53.9	+47	54.7	7.9 ^ ✓
174	+48°	600	1	56.9	+48	27.7	8.0 ^ ✓
175	+48°	598	1	56.6	+48	30.2	8.8 ^ ✓
176	+49°	544	1	56.1	+49	56.5	7.0 ^ ✓
177	+49°	640	2	11.4	+49	29.1	6.2 ^ ✓
178	+49°	628	2	9.7	+49	28.2	7.2 ^ ✓
179	+49°	614	2	7.1	+49	8.6	7.5 ^ ✓
180	+49°	629	2	9.7	+49	58.8	8.1 ^ ✓
181	+50°	522	2	10.6	+50	16.8	7.0 ^ ✓
182	+50°	530	2	11.8	+50	37.3	8.3 ^ ✓
183	+50°	500	2	7.2	+50	51.2	7.5 ^ ✓

Ident. by A.M.C. Feb. 27, '12
Checked L.W. March 2 1912

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March 17, 1921

Time 11.48

B 20539 Shrx disp

No	class	Ext.	Remarks
1	K5	4	E
2	K0	4	E
3	Q3	4	E
4	K5	4	E
5	?	3	
6	K	2	
7	K0	4	
8	Q5	5	
9	ma	5	
10	K0	4	
11	K	1	
12	K0	3	
13	K0	8	
14	K0	3	
15	B8	3	
16	M+	1	
17	Q5	8	
18	K	1	
19	K	2	
20	?2	10	
21	M+	4	
22	K5	7	
23	K0	2	
24	K0	2	
25	K5	7	
26	?5	3	
27	K0	3	

1	-72°	166	2	16.4	-72	2.6	8.1	✓
2	-72°	176	2	20.2	-72	14.4	8.2	✓
3	-72°	177	2	20.9	-72	24.8	8.6	✓
4	-72°	173	2	19.7	-72	52.8	9.0	✓
5	-72°	181	2	25.2	-72	8.1	8.7	✓
6	-71°	131	2	24.1	-71	22.7	8.8	✓
7	-71°	135	2	28.1	-71	9.8	8.4	✓
8	-71°	138	2	28.6	-71	28.1	8.2	✓
9	-71°	144	2	32.5	-71	18.8	8.4	✓
10	-70°	164	2	30.9	-70	39.9	8.8	✓
11	-71°	147	2	34.8	-71	20.9	9.4	✓
12	-71°	149	2	36.8	-71	41.4	8.9	✓
13	-71°	154	2	37.6	-71	12.9	7.6	✓
14	-70°	173	2	39.0	-70	27.2	8.5	✓
15	-70°	176	2	42.2	-70	5.9	8.3	✓
16	-70°	182	2	48.5	-70	19.6	9.6	✓
17	-70°	181	2	48.0	-70	44.1	7.7	✓
18	-71°	163	2	43.8	-71	20.2	9.2	✓
19	-71°	164	2	44.4	-71	26.1	9.1	✓
20	-71°	165	2	44.7	-71	45.8	6.8	✓
21	-71°	159	2	41.8	-71	44.0	8.2	✓
22	-71°	156	2	40.4	-71	59.5	7.8	✓
23	-72°	200	2	45.0	-72	22.2	8.8	✓
24	-72°	203	2	46.3	-72	10.1	8.6	✓
25	-72°	214	2	55.8	-72	18.7	8.2	✓
26	-71°	182	3	1.1	-71	41.9	8.6	✓
27	-71°	175	2	54.7	-71	3.4	8.9	✓

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No.	Class	Dist.	Remark
28	G5	2	
29	K	2	
30	Q3	7	
31	G	1	
32	K0	5	
33	K0	3	
34	K0	4	
35	G5	10	
36	F2	4	
37	B9	7	
38	K2	2	
39	F5	5	
40	Q2	10	
41	Q2	8	
42	K	1	
43	F5	4	
44	Q3	10	
45	F2	10	
46	Q0	5	
47	K0	4	
48	F5	6	E
49	K2	4	
50	G5	3	
51	K	10+	
52	B9	5	
53	G5	4	
54	K2	1	

28	-70°	190	2	53.0	-70	33.3	8.6 ✓
29	-69°	157	2	49.8	-69	41.8	8.8 ✓
30	-69°	162	2	55.6	-69	23.2	7.7 ✓
31	-70°	197	2	58.4	-70	11.4	9.0 ✓
32	-70°	201	3	0.8	-70	10.4	8.3 ✓
33	-71°	183	3	1.3	-71	0.9	8.8 ✓
34	-70°	204	3	2.7	-70	57.8	8.6 ✓
35	-69°	174	3	6.8	-69	44.5	6.8 ✓
36	-68°	191	3	6.2	-68	55.8	7.9 ✓
37	-67°	211	3	9.0	-67	58.7	7.4 ✓
38	-68°	197	3	9.9	-68	41.2	8.4 ✓
39	-68°	208	3	16.7	-68	36.8	7.7 ✓
40	-67°	217	3	16.6	-67	22.7	6.3 ✓
41	-68°	206	3	20.1	-68	59.0	7.0 ✓
42	-68°	207	3	21.1	-68	55.1	8.8 ✓
43	-68°	210	3	24.0	-68	46.2	8.1 ✓
44	-70°	230	3	23.5	-70	3.9	6.7 ✓
45	-69°	192	3	25.0	-69	46.4	6.8 ✓
46	-70°	240	3	33.0	-70	17.1	8.2 ✓
47	-68°	224	3	36.3	-68	50.7	8.1 ✓
48	-67°	238	3	32.0 / ~~29.3~~	-67	50.0 / ~~57.9~~	7.5 / ~~8.7~~ ✓
49	-73°	161	2	19.7	-73	52.9	8.8 ✓
50	-73°	163	2	20.3	-73	54.7	8.9 ✓
51	-74°	194	2	22.1	-74	12.7	7.7 ✓
52	-73°	175	2	29.0	-73	48.7	8.6 ✓
53	-73°	173	2	28.0	-73	5.3	8.7 ✓
54	-73°	171	2	26.2	-73	19.8	9.8 ✓

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No.	Class	Dist.	Remark
55	K5	2	
56	K0	6	
57	F8	8	
58	K0	2	
59	F5	6	
60	K0	5	
61	F2	6	
62	K	1	
63	F5	6	
64	K2	5	
65	Q0	4	
66	Q5	2	
67	K	1	
68	M	1	
69	F5	4	
70	B	10+	Burned out. Probably B8.
71	K0	5	
72	K5	2	
73	K0	6	
74	Q0	3	
75	K0	7	
76	K5	5	
77	K5	2	
78	K5	1	
79	Q0	2	
80	K2	2	
81	B9	6	

55	-72°	189	2	31.3	-72	43.8	9.2	✓
56	-72°	190	2	32.3	-72	59.7	8.0	✓
57	-72°	191	2	32.8	-72	53.8	7.2	✓
58	-73°	178	2	32.1	-73	14.5	9.0	✓
59	-73°	180	2	32.6	-73	13.1	7.9	✓
60	-73°	183	2	36.4	-73	13.1	8.3	✓
61	-73°	185	2	37.7	-73	24.1	8.0	✓
62	-73°	188	2	42.0	-73	20.1	9.3	✓
63	-73°	191	2	46.4	-73	27.0	8.2	✓
64	-73°	193	2	49.2	-73	17.0	8.6	✓
65	-73°	192	2	48.2	-73	0.7	8.6	✓
66	-72°	205	2	58.6	-72	43.4	9.1	✓
67	-72°	208	2	52.1	-72	42.8	9.5	✓
68	-72°	211	2	53.4	-72	56.8	9.2	✓
69	-73°	197	2	57.8	-73	2.7	8.3	✓
70	-72°	219	3	2.0	-72	23.5	5.6	✓
71	-72°	221	3	2.8	-72	57.0	8.2	✓
72	-73°	202	3	6.4	-73	5.9	9.3	✓
73	-72°	224	3	5.3	-72	29.0	8.2	✓
74	-72°	226	3	5.8	-72	41.7	8.6	✓
75	-72°	228	3	6.7	-72	30.1	7.6	✓
76	-72°	230	3	7.7	-72	47.8	8.6	✓
77	-72°	232	3	9.0	-72	29.2	9.1	✓
78	-72°	231	3	8.1	-72	11.6	9.2	✓
79	-72°	225	3	5.5	-72	11.9	8.8	✓
80	-72°	234	3	13.6	-72	33.4	9.3	✓
81	-72°	235	3	13.3	-72	42.0	8.0	✓

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No.	Class	Int.	Remarks
82	Z8	2	
83	K0	6	
84	K0	2	
85	K0	5	
86	K5	4	
87	K0	7	
88	K0	3	
89	K0	2	
90	K0	5	
91	A3	8	
92	F	9	
93	K	1	
94	F0	7	
95	F0	5	
96	F0	6	
97	G5	6	Poor focus
98	A2	8	
99	G5	3	The most following of two.
100	F5	6	
101	F8	7	
102	K0	3	
103	A	2	Maybe A5 - Focus poor.
104	G5	4	
105	K5	4	Maybe Ma Confirm.
106	K0	7	
107	A	9	Focus too poor.
108	K	2	

82	-71°	199	3	16.6	-71	46.3	8.5 ✓
83	-71°	202	3	19.6	-71	53.5	8.2 ✓
84	-71°	204	3	21.5	-71	57.3	9.1 ✓
85	-72°	238	3	20.3	-72	25.6	8.5 ✓
86	-70°	220	3	17.5	-70	56.0	9.0 ✓
87	-70°	217	3	14.3	-70	14.4	7.5 ✓
88	-70°	214	3	10.7	-70	15.6	8.5 ✓
89	-73°	207	3	19.0	-73	17.3	9.1 ✓
90	-73°	208	3	19.2	-73	30.9	8.7 ✓
91	-74°	248	3	17.0	-74	0.3	7.4 ✓
92	-74°	250	3	20.1	-74	25.8	7.2 ✓
93	-73°	211	3	20.8	-73	44.3	9.4 ✓
94	-73°	213	3	24.7	-73	47.1	8.0 ✓
95	-73°	216	3	27.2	-73	50.9	8.4 ✓
96	-73°	218	3	27.8	-73	53.9	8.1 ✓
97	-73°	220	3	28.7	-73	52.4	8.5 ✓
98	-73°	221	3	29.4	-73	58.7	8.3 ✓
99	-73°	225	3	31.2	-73	24.1	8.8 ✓
100	-72°	247	3	31.8	-72	47.5	8.1 ✓
101	-73°	231	3	35.2	-73	16.5	8.3 ✓
102	-73°	234	3	37.7	-73	48.1	8.8 ✓
103	-73°	236	3	42.4	-73	18.4	8.7 ✓
104	-73°	237	3	43.9	-73	43.0	9.0 ✓
105	-72°	260	3	44.8	-72	59.9	9.0 ✓
106	-75°	172	2	23.7	-75	0.1	8.0 ✓
107	-74°	215	2	33.9	-74	34.1	7.2 ✓
108	-75°	191	2	35.3	-75	2.5	9.0 ✓

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No.	Class	Dist.	Remark
109	A	4	
110	K0	6	
111	F0	3	
112	K5	6	
113	K5	2	Focus poor. Maybe Ma
114	A2	8	
115	A0	5	
116	K0	2	
117	A5	7	
118	F0	4	
119	A2	3	
120	K0	8	
121	F5	10	
122	F5	2	
123	A5	7	Poor focus.
124	A2	2	
125	K0	7	
126	A3	8	
127	A0	10	
128	K0	5	
129	A5	5	
130	F0	5	Partly superposed on 131
131	K	10	
132	A5	5	
Time 12.10	133	A	4	Focus poor
~~134~~			
~~135~~			

109	-74°	222	2i	36.6	-74	55.3	8.4	✓
110	-74°	226	2	41.0	-74	51.2	8.7	✓
111	-74°	231	2	48.5	-74	30.5	8.7	✓
112	-74°	232	2	48.9	-74	21.3	8.2	✓
113	-74°	233	2	49.6	-74	5.1	9.1	✓
114	-73°	195	2i	54.5	-73	57.4	7.8	✓
115	-74°	238	2i	59.3	-74	16.8	8.4	✓
116	-73°	199	3	3.4	-73	39.1	9.1	✓
117	-73°	201	3	5.9	-73	57.1	7.8	✓
118	-74°	240	3	7.3	-74	0.0	8.5	✓
119	-73°	204	3	12.2	-73	54.2	8.6	✓
120	-74°	239	3	5.8	-74	48.1	7.9	✓
121	-74°	242	3	11.3	-74	46.4	7.1	✓
122	-74°	243	3	11.7	-74	32.4	8.7	✓
123	-74°	245	3	12.8	-74	28.9	7.5	✓
124	-74°	244	3	12.5	-74	55.8	9.1	✓
125	-75°	225	3	12.7	-75	8.0	8.2	✓
126	-75°	231	3	22.9	-75	2.2	7.6	✓
127	-75°	236	3	31.9	-75	1.1	7.7	✓
128	-74°	268	3	37.8	-74	22.9	8.5	✓
129	-74°	234	2i	52.0	-74	55.0	8.3	✓
130	-75°	205	2i	51.8	-75	28.3	8.1	✓
131	-75°	204	2i	51.3	-75	34.5	6.5	✓
132	-75°	207	2i	54.7	-75	56.3	8.1	✓
133	-76°	222	3	55.7	-76	20.0	8.6	✓

Identified by A.M.C. May 4, 1912

Checked by J.C.M. May 23, 1912.

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March 18, 1912

June 12, 19

BH2098 Ghost disp.

No.	Class	Sect	Remark
1	γ_0	5	
2	γ_5	2	
3	γ_0	6	
4	γ_0	8	
5	A	10	Look up
6	γ_5	4	
7	γ	2	
8	γ_5	3	
9	γ	1	
10	γ_5	9	
11	γ_5	8	
12	Q2	8	
13	K0	5	
14	γ_5	4	
15	γ_8	21	
16	γ_8	4	
17	γ_8	3	
18	Q3	3	
19	γ	2	
20	γ_0	4	
21	γ	2	Difficult
22	γ_5	2	"
23	γ	3	
24	γ_0	4	
25	K0	2	
26	γ	2	
27	γ_0	3	

1	-44°	309	1	2.1	-44	27.5	8.0 ✓
2	-43°	335	1	3.3	-43	18.7	8.2 ✓
3	-43°	336	1	3.4	-43	4.1	7.3 ✓
4	-42°	389	1	1.8	-42	24.8	7.0 ✓
5	-42°	391	1	2.1	-42	9.3	5.4 ✓
6	-42°	378	1	0.3	-42	30.2	7.4 ✓
7	-42°	380	1	0.4	-42	10.2	8.4 ✓
8	-42°	377	1	0.0	-42	12.1	8.0 ✓
9	-42°	376	0	59.9	-42	2.2	8.6 ✓
10	-40°	240	0	59.6	-40	57.0	7.0 ✓
11	-41°	264	0	58.2	-41	12.0	7.3 ✓
12	-41°	263	0	58.1	-41	19.5	7.0 ✓
13	-41°	260	0	57.5	-41	41.8	7.3 ✓
14	-43°	317	1	0.4	-43	14.7	8.0 ✓
15	-43°	313	0	59.9	-43	32.2	8.7 ✓
16	-43°	308	0	59.1	-43	44.1	7.7 ✓
17	-43°	304	0	58.4	-43	58.6	8.2 ✓
18	-43°	291	0	54.8	-43	59.6	8.8 ✓
19	-43°	284	0	53.3	-43	56.4	8.7 ✓
20	-43°	266	0	50.5	-43	21.3	8.0 ✓
21	-41°	252	0	56.5	-41	44.4	8.9 ✓
22	-41°	248	0	54.7	-41	47.3	9.0 ✓
23	-42°	340	0	53.3	-42	24.9	8.5 ✓
24	-41°	241	0	51.8	-41	55.6	8.0 ✓
25	-41°	231	0	48.3	-41	3.0	8.5 ✓
26	-40°	190	0	45.9	-40	59.0	9.0 ✓
27	-41°	215	0	44.2	-41	18.3	8.7 ✓

Cards made and

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March 17, 1912 (Cont.)

B 42098

No.	Class	Int.	Remark
28	f8	2	
29	K5	2	
30	B9	8	
31	f0	4	
32	A	2	Maych A 3
33	K0	2	
34	A	2	Difficult
35	K0	4	
36	g	3	
37	f5	2	Focus very poor.
38	A	7	
39	g0	3	
40	K0	3	
41	g0	6	
42	g	3	
43	K	2	
Time 12.30	44	B5	3

cont. in 129.50

28	−42°	282	0	44.9	−42	14.2	8.8	1
29	−43°	229	0	43.5	−43	1.9	8.7	1
30	−43°	226	0	43.2	−43	14.6	7.5	1
31	−43°	241	0	46.1	−43	19.3	7.9	1
32	−43°	244	0	46.5	−43	27.8	9.3	1
33	−43°	250	0	47.3	−43	29.1	8.8	1
34	−42°	253	0	40.7	−42	50.7	9.0	1
35	−42°	249	0	39.8	−42	35.4	7.8	1
36	−42°	223	0	35.7	−42	42.2	8.6	1
37	−41°	178	0	34.8	−41	53.5	8.7	1
38	−41°	180	0	34.9	−41	13.5	8.5	1
39	−42°	209	0	33.8	−42	20.6	8.1	1
40	−42°	207	0	33.1	−42	35.2	7.7	1
41	−42°	198	0	32.1	−42	16.8	7.4	1
42	−41°	165	0	31.9	−41	35.4	8.5	1
43	−41°	168	0	32.6	−41	10.0	8.0	1
44	−41°	164	0	31.8	−41	10.5	8.5	1

Identified by J. C. M. March 26, 1912.
Checked by AMC Feb. 24, 1913
cards made out by M. C. W.
Cards checked by EWB.

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March 21, 1912

June 23.40 B 38366 Short disp.

No.	Class	Dist.	Remarks
1	A	9	E
2	K	5	E
3	F	7	E Focus very poor
4	G	4	
5	G	5	
6	G5	6	
7	A	4	
8	K2	3	
9	A	4	
10	G5	2	P
11	G	2	Partly superposed on 10
12	F5	8	Focus poor
13	G	2	
14	K	2	
15	K0	4	
16	F5	6	
17	G0	3	
18	F5	3	
19	K0	4	
20	A3	8	
21	F5	6	
22	F5	4	
23	F8	3	
24	F5	4	
25	G5	4	
26	A0	9	
27	K0	5	

1	−72°	262	3	46.0	−72	2.7	6.2	✓
2	−70°	259	3	48.8	−70	44.1	8.1	✓
3	−70°	257	3	47.7	−70	16.0	7.5	✓
4	−70°	255	3	45.0	−70	24.4	7.8	✓
5	−70°	254	3	44.8	−70	24.6	7.6	✓
6	−68°	224	3	36.3	−68	50.7	8.1	✓
7	−68°	231	3	39.8	−68	16.0	8.7	✓
8	−67°	251	3	41.6	−67	40.5	9.1	✓
9	−67°	246	3	39.0	−67	37.8	8.8	✓
10	−68°	222	3	34.4	−68	16.5	8.8	✓
11	−68°	221	3	34.2	−68	14.8	8.8	✓
12	−67°	237	3	32.0	−67	50.0	7.5	✓
13	−67°	235	3	29.3	−67	57.9	8.7	✓
14	−67°	234	3	28.6	−67	38.5	9.0	✓
15	−68°	213	3	25.2	−68	3.1	8.8	✓
16	−68°	210	3	24.0	−68	46.2	8.1	✓
17	−69°	190	3	22.8	−69	0.5	8.8	✓
18	−69°	189	3	22.4	−69	12.1	8.6	✓
19	−68°	207	3	21.1	−68	55.1	8.8	✓
20	−68°	206	3	20.1	−68	59.0	7.0	✓
21	−68°	203	3	16.7	−68	36.8	7.7	✓
22	−67°	219	3	18.5	−67	36.4	9.1	✓
23	−67°	223	3	22.5	−67	21.1	8.7	✓
24	−66°	192	3	24.7	−66	55.3	8.5	✓
25	−67°	215	3	12.7	−67	7.1	8.5	✓
26	−67°	211	3	9.0	−67	58.7	7.4	✓
27	−68°	197	3	9.9	−68	41.2	8.4	✓

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March 21, 1912 (cont.)
B 38366

No.	class	dist	Remark
28	78	4	
29	K0	2	
30	K2	3	
31	Q2	10	E.
32	75	3	
33	K	4	E
34	78	4	E
35	K	45	
36	Q	3	E
June 23.49 37	Q	7	E
38	4	A5	

cmk. 130, 194

28	-68°	198	3	11.7	-68	47.1	8.6	✓
29	-68°	188	3	4.9	-68	28.5	9.8	✓
30	-68°	186	3	3.4	-68	21.0	9.3	✓
31	-63°	188	3	46.2	-63	19.6	5.5	✓
32	-63°	185	2	45.3	-63	28.9	7.9	✓
33	-63°	183	2	43.0	-63	14.9	8.1	✓
34	-63°	179	2	40.8	-62	26.8	7.7	✓
35	-63°	175	2	36.8	-62	13.8	8.2	✓
36	-62°	210	2	32.0	-62	56.9	8.0	✓
37	-63°	169	2	30.5	-63	8.2	6.5	✓

Identified by A.M.C. May 3, 1912
Checked by J. C. M. May 23, 1912.

38	-67	195	2	56.0	-67	21	8.6	89 on B 20449

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March 21, 1912

Time: 23.50

B20430 short disp.

No.	Class	Int.	Remark
1	K0	8	
2	F0	5	
3	A5	7	
4	G5	3	
5	K	2	
6	K0	3	
7	G0	10	
8	G5	3	
9	F8	2	
10	K	1	
11	K0	3	
12	F5	4	
13	F2	5	
14	F5	7	
15	A2	4	
16	F0	8	
17	K0	5	
18	G5	4	
19	A	10+	
20	F0	5	
21	K	10+	
22	F8	4	
23	G0	5	
24	F5	5	
25	G0	7	
26	F5	4	
27	G0	3	

1	−63°	275	3	54.5	−63	49.5	6.6 ✓
2	−64°	287	3	56.3	−64	22.6	8.2 ✓
3	−64°	294	3	59.5	−64	46.2	7.6 ✓
4	−64°	296	4	0.6	−64	53.1	8.7 ✓
5	−64°	298	4	1.5	−64	24.0	9.1 ✓
6	−64°	302	4	4.3	−64	15.9	9.0 ✓
7	−64°	305	4	6.0	−64	33.8	6.2 ✓
8	−64°	306	4	6.7	−64	56.1	8.4 ✓
9	−65°	310	4	9.5	−65	7.1	9.2 ✓
10	−65°	311	4	9.5	−65	32.0	9.8 ✓
11	−65°	309	4	9.4	−65	39.2	8.8 ✓
12	−65°	312	4	10.6	−65	48.3	8.4 ✓
13	−65°	317	4	12.2	−65	55.8	8.4 ✓
14	−65°	320	4	13.3	−65	16.6	7.7 ✓
15	−64°	311	4	11.4	−64	34.2	8.2 ✓
16	−64°	317	4	15.5	−64	37.3	7.5 ✓
17	−64°	320	4	16.6	−64	12.8	8.5 ✓
18	−63°	314	4	15.9	−63	23.8	8.3 ✓
19	−63°	316	4	16.3	−63	33.5	5.4 ✓
20	−63°	320	4	18.9	−63	28.0	8.2 ✓
21	−63°	324	4	20.5	−63	40.9	6.4 ✓
22	−63°	327	4	22.6	−63	35.0	8.8 ✓
23	−64°	328	4	23.1	−64	28.4	8.8 ✓
24	−64°	329	4	23.1	−64	33.1	8.9 ✓
25	−64°	334	4	24.0	−64	22.8	8.4 ✓
26	−64°	337	4	25.3	−64	18.3	9.0 ✓
27	−64°	338	4	26.0	−64	25.0	9.0 ✓

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March 31, 1912

B 20430 about diff.

No.	Class	Int	Remark
28	F5	4	
29	G5	4	
30	A0	10+	
31	K	10+	
32	K	10+	
33	Md	5	Hγ + Hδ bright. δ = 1.3 γ
34	Mc	10	
35	A2	9	E.
36	F8	4	E.
37	F0	6	
38	K0	8	
39	A	4	
40	G5	4	
41	K0	7	
42	K0	3	
43	G5	3	
44	A5	7	
45	A	5	
46	K0	3	
47	K0	5	
48	G5	4	
49	F	4	E.
50	G5	2	
51	G	10+	
52	K0	6	
53	F8	3	
54	F8	3	

28	−64°	329	4	26.4	−63	3.6	8.6	✓
29	−63°	330	4	24.8	−63	2.0	8.6	✓
30	−63°	332	4	25.7	−63	4.6	6.7	✓
31	−62°	357	4	26.3	−62	47.7	6.5	✓
32	−63°	342	4	32.3	−63	4.9	6.9	✓
33	R Reticuli		4	32.5	−63	14	(1900 position)	✓
34	−62°	372	4	35.3	−62	19.3	6.9	✓
35	−62°	376	4	37.4	−62	37.4	6.5	✓
36	−63°	356	4	39.5	−63	2.3	8.2	✓
37	−63°	358	4	41.2	−63	26.9	7.6	✓
38	−63°	365	4	43.8	−63	27.2	7.3	✓
39	−64°	365	4	42.3	−64	9.3	8.8	✓
40	−63°	369	4	44.9	−63	46.9	8.5	✓
41	−63°	372	4	47.0	−63	41.7	7.7	✓
42	−63°	373	4	47.1	−63	57.7	8.8	✓
43	−64°	371	4	48.0	−64	36.1	8.7	✓
44	−63°	370	4	46.0	−63	2.9	7.5	✓
45	−63°	374	4	47.5	−63	11.7	8.2	✓
46	−63°	379	4	52.2	−63	48.9	8.6	✓
47	−64°	262	3	40.9	−64	35.5	8.5	✓
48	−64°	269	3	43.5	−64	7.1	8.3	✓
49	−64°	270	3	44.5	−64	27.9	8.5	✓
50	−64°	272	3	48.7	−64	43.2	8.8	✓
51	−65°	263	3	42.6	−65	12.2	4.8	✓
52	−65°	272	3	46.5	−65	13.3	8.2	✓
53	−65°	279	3	50.0	−65	39.6	8.4	✓
54	−66°	225	3	51.4	−66	17.8	9.0	✓

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March 21, 1912

B 20430 short diefs.

No.	Class	Int.	Remark
55	Fz	4	
56	Ly0	3	
57	Fe	7	
58	Ly5	2	
59	Ma	6	
60	Ly5	6	
61	Az	5	
62	Ly0	2	
63	Ly	2	
64	A	2	
65	Ly5	7	
66	Ky0	5	
67	Ly5	4	
68	Ly5	6	
69	Ly5	3	
70	Ly5	7	
71	Ly0	6	
72	Ky0	3	
73	Ao	5	
74	Fe	4	
75	Ky0	7	
76	Fe	5	
77	Ao	8	
78	Ly0	2	
79	Fe	4	
80	Fe	6	
81	Ly5	7	

55	-66°	229	3	52.6	-66	26.9	8.5 ✓
56	-65°	291	3	54.1	-65	38.9	8.7 ✓
57	-65°	294	3	54.6	-65	33.0	7.7 ✓
58	-66°	235	3	55.7	-66	9.7	9.1 ✓
59	-66°	240	3	57.9	-66	13.9	8.3 ✓
60	-66°	244	3	59.5	-66	31.5	8.3 ✓
61	-67°	276	3	57.2	-67	11.8	8.7 ✓
62	-67°	280	4	0.2	-67	29.8	9.2 ✓
63	-67°	282	4	3.9	-67	30.5	9.2 ✓
64	-66°	251	4	3.3	-66	51.2	9.5 ✓
65	-66°	257	4	6.7	-66	46.6	8.3 ✓
66	-65°	305	4	7.2	-65	54.3	8.2 ✓
67	-66°	259	4	8.9	-66	22.1	8.7 ✓
68	-66°	264	4	11.4	-66	56.4	8.3 ✓
69	-67°	287	4	6.6	-67	30.1	9.0 ✓
70	-68°	244	4	6.0	-68	2.3	8.8 ✓
71	-67°	290	4	9.6	-67	38.8	9.0 ✓
72	-67°	292	4	11.6	-67	52.5	8.9 ✓
73	-67°	297	4	13.8	-67	28.2	8.7 ✓
74	-67°	296	4	~~16.9~~ 13.6	-66	~~0.9~~ 3.4	8.4 ✓
75	-66°	270	4	16.2	-66	59.1	8.3 ✓
76	-66°	267	4	15.1	-66	31.5	8.3 ✓
77	-66°	269	4	15.8	-66	13.0	8.0 ✓
78	-65°	323	4	16.0	-65	56.1	8.7 ✓
79	-66°	271	4	16.9	-66	0.9	8.1 ✓
80	-66°	272	4	18.5	-66	15.9	8.2 ✓
81	-66°	276	4	20.3	-66	32.0	8.2

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March 22, 1912

B2043 0 short disp.

No.	Class	Int.	Remark
82	F2	2	
83	G0	2	
84	G5	3	
85	G5	4	
86	F2	5	
87	G5	5	
88	G5	3	
89	F2	7	
90	K0	5	
91	G	2	Partly superposed on 90
92	F5	7	
93	A0	8	
94	G0	4	
95	Ma	4	
96	F0	3	
97	G5	4	
98	K0	4	The northern of Two.
99	G0	6	
100	K0	3	
101	F0	3	
102	K0	3	
103	G	2	
104	G5	4	
105	K0	6	
106	F5	6	
107	A0	5	
108	F5	5	

82	−65°	322	4	15.6	−65	27.1	8.7 ✓
83	−65°	325	4	16.5	−65	23.1	9.2 ✓
84	−65°	327	4	17.2	−65	16.4	8.9 ✓
85	−65°	328	4	18.5	−65	24.2	8.8 ✓
86	−66°	280	4	21.9	−66	1.3	8.8 ✓
87	−66°	282	4	22.6	−66	8.6	8.8 ✓
88	−65°	335	4	24.4	−65	50.6	9.2 ✓
89	−66°	285	4	24.8	−66	5.5	8.1 ✓
90	−65°	339	4	26.6	−65	55.7	8.8 ✓
91	−65°	340	4	26.8	−65	51.6	9.1 ✓
92	−65°	344	4	27.7	−65	57.2	8.5 ✓
93	−65°	349	4	28.8	−65	38.8	7.9 ✓
94	−65°	347	4	28.0	−65	10.5	8.8 ✓
95	−64°	342	4	28.0	−64	50.2	8.9 ✓
96	−64°	345	4	28.8	−64	59.8	9.0 ✓
97	−65°	352	4	31.6	−65	6.9	8.8 ✓
98	−65°	355	4	31.8	−65	15.7	8.9 ✓
99	−65°	356	4	32.0	−65	20.7	8.6 ✓
100	−65°	351	4	31.2	−65	22.6	9.1 ✓
101	−64°	353	4	33.8	−64	55.3	9.0 ✓
102	−65°	362	4	37.8	−65	20.3	9.0 ✓
103	−65°	361	4	37.5	−65	42.0	9.1 ✓
104	−65°	364	4	38.6	−65	31.0	8.9 ✓
105	−65°	365	4	39.1	−65	54.2	8.7 ✓
106	−66°	303	4	33.9	−66	26.7	8.8 ✓
107	−66°	307	4	36.4	−66	40.7	8.6 ✓
108	−66°	310	4	37.2	−66	42.5	8.6 ✓

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March 22 1912

B 20430 chart disp.

No.	Class	Int.	Remark
109	F8	4	
110	G	3	
111	G5	2	
112	K0	5	
113	G0	2	
114	F0	4	
115	A2 5	4	
116	G5	4	
117	A	3	
118	F?	3	Partly superposed on 117
119	F0	8	
120	A2	5	
121	K0	5	
122	F5	5	
123	G0	6	
124	G	2	
125	F5	5	Time 0.13
126	F8	2	" 22.0
127	K	2	
128	K5	8	
129	F5	4	
130	K2	3	
131	Cont.	4	N8 liner spew.
132	G	5	E.
133	Pec	4	
134	G5	6	
135	A	7	E.

109	-66°	309	4	37.2	-66	21.9	8.8 ✓
110	-66°	312	4	39.0	-66	15.6	8.9 ✓
111	-66°	314	4	41.2	-66	8.5	9.2 ✓
112	-65°	371	4	41.2	-65	45.0	8.7 ✓
113	-65°	369	4	40.6	-65	32.7	8.7 ✓
114	-65°	376	4	43.4	-65	44.0	8.7 ✓
115	-65°	374	4	42.0	-65	16.3	8.8 ✓
116	-65°	377	4	44.1	-65	12.0	8.9 ✓
117	-64°	363	4	40.2	-64	40.8	8.7 ✓
118	-64°	364	4	40.4	-64	42.5	8.7 ✓
119	-66°	320	4	45.5	-66	17.9	7.5 ✓
120	-66°	322	4	46.7	-66	13.5	8.5 ✓
121	-67°	340	4	41.4	-67	8.0	8.8 ✓
122	-66°	317	4	42.7	-66	45.7	8.6 ✓
123	-66°	319	4	43.3	-66	58.3	8.4 ✓
124	-67°	343	4	43.5	-67	1.8	9.0 ✓
125	-66°	321	4	45.6	-66	44.7	8.6 ✓
126	-66°	328	4	48.1	-66	41.3	8.9 ✓
127	-66°	329	4	48.9	-66	46.2	9.0 ✓
128	-66°	338	4	53.3	-66	52.5	8.0 ✓
129	-67°	356	4	52.6	-67	21.1	8.8 ✓
130	-67°	360	4	54.4	-67	28.9	9.0 ✓
131	-67°	364	4	55.2	-67	21.9	9.0 ✓
132	-67°	380	4.5	1.5	-67	37.4	9.0 ✓
133	-68°	304	5	1.9	-68	12.2	9.1 ✓
134	-68°	305	5	2.0	-68	1.1	9.01
135	-66°	203	3	40.4	-66	52.5	7.9 ✓

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B 2043 0 short disp.

No.	Class	Int.	Remark
136	A	4	E.
137	K2	3	
138	F5	6	
139	A3	8	
140	G5	3	E.
141	K0	3	
142	A5	7	
143	G0	5	
144	G	3	
145	K0	5	
146	K2	6	
147	A5	4	
148	A3	4	Focus poor
149	F5	3	
150	F0	6	
151	K0	2	
152	A	1	
153	G5	5	
154	F2	4	
155	K2	3	
156	K0	2	
157	A0	4	
158	A0	8	
159	K0	3	
160	G0	3	
161	A3	2	
162	K0	4	

136	-68.7°	246	3	39.0	-68.7	37.8	8.8	✓
137	-68.7°	251	3	41.6	-68.7	40.5	9.1	✓
138	-68.7°	253	3	43.3	-68.7	5.3	8.2	✓
139	-66°	215	3	45.3	-66	53.4	7.5	✓
140	-68.7°	255	3	45.9	-68.7	11.8	8.8	✓
141	-68.7°	258	3	46.7	-68.7	4.6	9.2	✓
142	-66°	223	3	49.6	-66	43.1	7.8	✓
143	-66°	232	3	54.0	-66	48.9	8.3	✓
144	-67.7°	271	3	53.5	-67	47.3	9.0	✓
145	-68°	241	3	58.3	-68	41.8	8.6	✓
146	-69°	234	4	2.6	-69	17.2	8.6	✓
147	-69°	236	4	5.7	-69	44.0	9.0	✓
148	-69°	239	4	6.8	-69	35.4	9.0	✓
149	-69°	240	4	7.8	-69	22.7	9.0	✓
150	-69°	242	4	8.5	-69	1.6	8.7	✓
151	-68°	248	4	11.7	-68	31.7	9.4	✓
152	-69°	245	4	11.0	-69	0.1	9.4	✓
153	-69°	252	4	13.5	-69	26.0	8.9	✓
154	-69°	254	4	15.1	-69	2.6	8.9	✓
155	-69°	256	4	16.5	-69	5.5	9.2	✓
156	-69°	259	4	17.5	-69	17.3	9.3	✓
157	-69°	263	4	19.0	-69	2.0	8.9	✓
158	-68°	253	4	20.1	-68	59.8	8.0	✓
159	-68°	251	4	19.2	-68	37.2	9.2	✓
160	-68°	256	4	20.9	-68	23.6	9.0	✓
161	-68°	255	4	20.6	-68	4.8	9.2	✓
162	-68°	250	4	17.3	-68	0.4	9.0	✓

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B2043 0 short disp.

No.	Class	Int.	Remark
163	F5	2	
164	A3	10	Line strong.
165	G5	3	
166	A5	2	
167	A2	5	
168	G0	7	
169	G	2	
170	G	2	
171	G0	3	
172	G	1	
173	G	2	
174	K	3	Pair or two stars. Look up.
175	K2	3	
176	F8	3	
177	K0	4	
178	G5	5	
179	F8	3	
180	A0	8	
181	K0	5	
182	F5	4	
183	F8	9	
184	F5	3	
185	F5	6	
186	F8	3	
187	A2	8	
188	G	8	
189	K	3	

163	-67°	30.7	4	18.6	-67	38.0	9.2	✓
164	-67°	31.6	4	28.5	-67	1.5	6.8	✓
165	-67°	31.7	4	25.7	-67	51.0	9.1	✓
166	-68°	26.2	4	23.0	-68	10.0	9.2	✓
167	-68°	26.6	4	27.7	-68	16.3	8.6	✓
168	-68°	26.8	4	30.1	-68	9.4	8.1	✓
169	-67°	32.4	4	30.6	-67	41.3	9.2	✓
170	-67°	32.1	4	28.6	-67	13.1	9.0	✓
171	-66°	29.3	4	29.0	-66	56.7	8.9	✓
172	-67°	32.2	4	29.3	-67	0.2	9.2	✓
173	-66°	29.4	4	29.5	-66	22.8	9.2	✓
174	-66°	29.6	4	30.2	-66	15.1	8.9	✓
175	-67°	32.7	4	33.0	-67	34.4	9.0	✓
176	-67°	33.0	4	34.2	-67	32.9	8.9	✓
177	-67°	33.1	4	35.5	-67	9.7	8.8	✓
178	-67°	33.3	4	36.5	-67	28.9	8.9	✓
179	-68°	27.0	4	35.9	-68	29.4	9.0	✓
180	-69°	28.4	4	28.6	-69	8.3	7.6	✓
181	-68°	27.1	4	41.9	-68	50.4	8.8	✓
182	-68°	27.6	4	46.9	-68	57.7	8.9	✓
183	-68°	27.7	4	47.0	-68	45.9	7.7	✓
184	-68°	27.8	4	48.4	-68	58.9	8.8	✓
185	-68°	27.2	4	45.3	-68	14.9	7.9	✓
186	-67°	34.2	4	42.7	-67	38.2	8.9	✓
187	-67°	35.2	4	49.0	-67	55.6	7.6	✓
188	-68°	28.0	4	51.6	-68	16.7	7.6	✓
189	-68°	28.1	4	51.8	-68	38.7	9.2	✓

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March 22, 1912.

B 2043 0 short disp.

Nr.	Class	Int.	Remark
190	A	6	
191	Mb	7	
192	A	5	E.
193	A5	9	
194	A	3	
195	F5 v.	5	
196	A	1	
197	G5	9	
198	K0	2	
199	K2	5	
200	K2	6	
201	F8	3	
202	F0	6	
203	F8	3	
204	K0	5	
205	F2	5	
206	G5	7	
207	K2	3	
208	F0	5	
209	F8	2	
210	F8	2	
211	F0	4	
212	K2	4	
213	K0	4	
214	K0	5	
June 22.23 215	F	10	
~~216~~			

cont. = 53 126

190	-69°	30.0	4	53.1	-69	36.3	8.6	✓
191	-70°	32.1	4	51.6	-70	2.3	8.9	✓
192	-70°	27.4	4	2.9	-70	36.8	8.3	✓
193	-70°	27.6	4	6.4	-70	12.2	7.8	✓
194	-70°	27.7	4	6.8	-70	34.5	9.1	✓
195	-69°	25.3	4	14.7	-69	51.0	8.8	✓
196	-69°	25.5	4	15.4	-69	50.6	9.4	✓
197	-70°	29.0	4	17.2	-70	1.9	8.2	✓
198	-69°	26.2	4	18.5	-69	37.6	9.2	✓
199	-69°	26.5	4	20.0	-69	24.8	8.8	✓
200	-69°	26.6	4	20.4	-69	41.4	8.8	✓
201	-69°	26.4	4	19.5	-69	59.9	8.9	✓
202	-69°	26.8	4	21.9	-69	54.3	8.3	✓
203	-70°	29.6	4	22.2	-70	9.7	9.0	✓
204	-69°	27.3	4	24.8	-69	16.4	8.6	✓
205	-69°	27.5	4	25.5	-69	40.0	8.6	✓
206	-70°	30.0	4	26.4	-70	16.2	8.2	✓
207	-70°	30.4	4	28.1	-70	1.8	9.0	✓
208	-69°	27.7	4	29.6	-69	52.9	8.2	✓
209	-69°	27.8	4	31.2	-69	41.0	9.1	✓
210	-69°	27.9	4	33.2	-69	37.4	8.9	✓
211	-69°	28.2	4	35.3	-69	20.0	8.8	✓
212	-69°	28.6	4	39.4	-69	41.6	8.9	✓
213	-70°	31.2	4	38.2	-70	18.9	8.7	✓
214	-70°	29.4	4	21.1	-70	44.5	8.8	✓
215	-70°	28.7	4	13.9	-70	44.0	7.7	✓

Identified by A.M.C. May 7, 1912

Checked by J.C.M. May 24, 1912

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March 27, 1912

Time 23.33

B 20538 short disp.

No.	Class	Int.	Remark
1	f7	7	E.
2	f5	10	E.
3	f7	5	E.
4	fg5	2	
5	fg5	1	
6	fg0	3	
7	K0	6	
8	K	1	
9	fg5	9	
10	K0	3	
11	f	5	Focus poor
12	A3	2	
13	fg	10+	Burned out.
14	K0	5	
15	F0	5	
16	F5	5	
17	K0	2	
18	fg5	8	
19	K	3	Somewhat foc. Another star superposed?
20	K0	3	
21	K5	1	
22	F8	4	
23	A2	6	
24	K0	8	
25	fg	1	
26	fg5	2	
27	f	10	

1	-79°	50′	1″	58.5	-79°	22.2	7.7	✓
2	-79°	51′	2″	1.8	-79°	28.2	7.8	✓
3	-79°	52′	2″	4.7	-79°	17.8	8.2	✓
4	-79°	53′	2″	9.0	-79°	34.6	9.0	✓
5	-79°	56′	2″	15.2	-79°	36.3	8.9	✓
6	-79°	57′	2″	17.6	-79°	36.1	8.3	✓
7	-79°	58′	2″	17.9	-79°	46.0	8.4	✓
8	-79°	59′	2″	18.0	-79°	13.5	9.1	✓
9	-78°	48′	2″	19.6	-78°	39.7	8.6	✓
10	-79°	65′	2″	32.4	-79°	7.4	8.7	✓
11	-78°	57′	2″	33.4	-78°	54.9	8.1	✓
12	-79°	64′	2″	31.7	-79°	44.6	8.6	✓
13	-79°	66′	2″	34.4	-79°	39.3	6.4	✓
14	-79°	68′	2″	35.8	-79°	34.7	8.1	✓
15	-79°	71′	2″	41.1	-79°	16.1	8.0	✓
16	-80°	51′	2″	38.0	-80°	9.1	8.3	✓
17	-80°	55′	2″	40.9	-80°	0.9	8.8	✓
18	-80°	54′	2″	40.6	-80°	20.9	8.0	✓
19	-80°	58′	2″	46.6	-80°	18.7	8.9	✓
20	-80°	59′	2″	47.0	-80°	32.1	8.6	✓
21	-80°	65′	2″	55.2	-80°	44.2	9.0	✓
22	-81°	63′	2″	59.0	-81°	3.8	8.8	✓
23	-80°	69′	2″	59.9	-80°	48.8	8.3	✓
24	-80°	70′	3″	0.6	-80°	5.4	8.2	✓
25	-80°	71′	3″	6.0	-80°	17.2	8.8	✓
26	-79°	87′	3″	6.8	-79°	15.4	8.4	✓
27	-79°	91′	3″	11.8	-79°	27.8	5.6	✓

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March 24, 1912

B 20538 short disp.

No.	Class	Int.	Remark
28	F0	7	
29	F5 8	3	
30	A0	3	
31	A2	3	
32	K5	3	
33	F8	2	
34	A	2	
35	K	1	
36	K2	2	
37	K	2	The northern of two stars.
38	A0	2	
39	F0	9	
40	F2	3	
41	F5	3	
42	F5	3	
43	A0	2	
44	A5	3	
45	A2	8	
46	K5	1	
47	A3	4	
48	F8	5	
49	K2	4	
50	F5	1	
51	F0	7	
52	F5	8	
53	K2	2	
54	K2	4	

28	-79°	9.8	3	18.3	-79	16.9	7.1	✓
29	-78°	9.1	3	16.0	-78	22.6	8.0	✓
30	-78°	6.3	2	44.3	-78	20.0	8.2	✓
31	-78°	7.1	2	48.9	-78	2.4	8.1	✓
32	-78°	7.7	2	55.8	-78	22.0	8.3	✓
33	-78°	8.1	2	57.7	-78	34.8	8.2	✓
34	-78°	6.9	2	46.7	-78	58.4	8.6	✓
35	-78°	7.6 ~~6.8~~	2	~~46.3~~ 47.6	-78	5.37 ~~57.22~~	8.6 ~~9.2~~	✓
36	-79°	7.8	2	58.8	-79	11.7	8.6	✓
37	-81°	6.6	3	6.2	-81	9.8	8.9	✓
38	-81°	6.5	3	5.3	-81	23.4	8.9	✓
39	-81°	6.7	3	6.9	-81	34.5	7.6	✓
40	-81°	7.0	3	10.6	-81	4.20	8.4	✓
41	-81°	7.5	3	15.1	-81	27.8	8.4	✓
42	-81°	7.1	3	10.6	-81	0.2	8.6	✓
43	-81°	7.4	3	13.8	-81	3.9	8.9	✓
44	-80°	7.7	2	23.0	-80	56.1	8.8	✓
45	-81°	7.8	3	22.3	-81	20.4	8.1	✓
46	-81°	7.9	3	22.8	-81	16.0	9.1	✓
47	-81°	7.7	3	21.6	-81	44.8	8.6	✓
48	-82°	5.7	3	17.2	-82	16.9	8.7	✓
49	-82°	6.3	3	28.4	-82	11.4	9.0	✓
50	-82°	6.2	3	28.2	-82	28.9	9.2	✓
51	-82°	6.4	3	30.3	-82	41.9	7.8	✓
52	-82°	6.5	3	32.0	-82	54.7	8.0	✓
53	-82°	6.7	3	34.2	-82	49.8	9.2	✓
54	-82°	6.8	3	37.9	-82	43.3	8.8	✓

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B 2038 short dist.

No	Class	Int	Remarks
55	g_0	3	
56	K_5	1	
57	F_2	2	
58	g_5	5	
59	F_5	2	
60	K?	1?	
61	A_2	5	
62	K_2	2	
63	K_0	6	
64	K_0	4	
65	A_5	4	Partly superposed on 64
66	K	1	Another star superposed? no.
67	B_9	4	
68	F_8	8	74 & double. Two stars? yes.
69	K_2	4	
70	K	8	
71	A_0	3	
Time: 33.48	72	A_0	2
" 0.30	73	g_5	3
	74	g_5	2
	75	K	10
	76	K	10+
	77	K_0	5
	78	F	10+
	79	g_5	4 E.
	80	A_2	4
	81	g_0	3

55	-82°	70	3	46.8	-82	42.6	8.8 ✓
56	-82°	75	3	52.9	-82	52.2	9.2 ✓
57	-82°	73	3	52.0	-82	21.6	9.0 ✓
58	-82°	72	3	50.8	-82	10.9	8.7 ✓
59	-81°	86	3	40.5	-81	38.1	9.3 ✓
60	-81°	81	3	32.3	-81	44.9	9.0 ✓
61	-80°	81	3	30.4	-80	57.3	8.4 ✓
62	-81°	82	3	33.0	-81	5.8	9.0 ✓
63	-81°	83	3	36.1	-81	7.8	8.1 ✓
64	-81°	88	3	45.5	-81	15.0	9.0 ✓
65	-81°	89	3	45.8	-81	15.4	9.0 ✓
66	-81°	90	3	46.8	-81	24.9	9.4 ✓
67	-80°	97	3	51.5	-80	51.1	8.9 ✓
68	-80°	93	3	49.5	-80	24.3	8.5 ✓
69	-80°	98	3	53.8	-80	30.8	9.0 ✓
70	-79°	109	3	42.1	-79	30.0	7.7 ✓
71	-79°	112	3	45.9	-79	52.1	8.6 ✓
72	-79°	114	3	47.5	-79	57.7	8.7 ✓
73	-79°	113	3	47.4	-79	9.4	8.9 ✓
74	-78°	112	3	46.5	-78	41.3	9.0 ✓
75	-78°	105	3	41.3	-78	43.5	7.7 ✓
76	-78°	101	3	34.6	-78	46.1	6.2 ✓
77	-78°	99	3	31.8	-78	2.4	7.8 ✓
78	-77°	134	3	19.1	-77	50.6	5.8 ✓
79	-77°	131	3	7.2	-77	38.6	7.8 ✓
80	-79°	121	3	59.2	-79	42.0	8.7 ✓
81	-80°	102	4	0.5	-80	10.1	8.9 ✓

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March 25, 1912

B20538 short disp.

No.	Class	Int.	Remarks
82	K	1	
83	F2	5	
84	A5	4	Maybe comps. Look up.
85	A3	5	
86	ly	2	
87	K5	5	
88	F8	9	
89	K2	3	
90	F0	3	
91	F5	3	
92	K0	9	
93	A2	4	
94	A2	10	
95	ly	10+	Burned out.
96	F5	3	
97	F	10+	Burned out
98	K2	4	
99	A0	4	
100	K5	3	
101	K0	4	
102	F5	4	
103	F	6	E.
104	A	7	E.
105	F	10+	
106	F	4	
107	ly5	3	
108	K0	3	

82	−80°	105	4	3.7	−80	26.0	9.3 ✓
83	−80°	104	4	1.5	−80	56.0	8.5 ✓
84	−81°	96	4	6.9	−81	0.6	8.9 ✓
85	−81°	97	4	8.5	−81	45.2	8.7 ✓
86	−81°	99	4	10.4	−81	30.9	9.1 ✓
87	−81°	102	4	13.1	−81	13.0	8.9 ✓
88	−81°	~~97~~ 104	4	~~8.5~~ 15.8	−81	~~45.2~~ 2.8	8.8 ✓
89	−81°	108	4	21.0	−81	18.1	9.0 ✓
90	−79°	129	4	7.3	−79	32.7	8.4 ✓
91	−78°	123	4	7.3	−78	58.1	8.5 ✓
92	−78°	125	4	8.4	−78	58.0	7.7 ✓
93	−79°	134	4	16.5	−79	19.9	8.0 ✓
94	−79°	141	4	26.6	−79	48.5	6.8 ✓
95	−79°	~~116~~ 80	4	~~26.8~~ 5	−79	~~48.5~~ 20.3	~~6.8~~ 6.5 ✓
96	−79°	~~117~~ 80	4	~~27.6~~ 28.2	−79	~~33.1~~ 24.2	~~8.1~~ 8.5 ✓
97	−81°	115	4	32.1	−81	51.6	6.3 ✓
98	−82°	89	4	33.5	−82	8.1	8.4 ✓
99	−81°	116	4	35.9	−81	50.7	8.2 ✓
100	−81°	122	4	42.0	−81	30.8	8.8 ✓
101	−81°	125	4	54.6	−81	42.9	8.6 ✓
102	−80°	32	1	44.8	−80	21.8	8.2 ✓
103	−80°	30	1	42.7	−80	32.4	7.7 ✓
104	−80°	29	1	42.3	−80	40.9	7.3 ✓
105	−80°	35	1	49.0	−80	47.7	6.3 ✓
106	−80°	37	1	51.4	−80	59.4	8.4 ✓
107	−80°	40	1	57.0	−80	58.4	9.2 ✓
108	−81°	37	1	54.2	−81	38.1	8.9 ✓

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March 25, 1912

B 205 38 short disp.

No.	Class	Int.	Remark
109	K0	7	
110	F0	10	
111	K0	3	
112	F5	3	
113	A2	4	
114	F0	3	
115	Ma	3	
116	A3	5	
117	K2	3	
118	G0	10	
119	F2	4	
120	B9	5	
121	K0	3	
122	G0	3	
123	K0	3	
124	K0	4	
125	A5	6	
126	A5	3	
127	F0	7	
128	G	3	Another star superposed?
129	G5	4	
130	K0	6	
131	A0	6	
132	K0	6	
133	G5	4	
134	F5	3	
135	F0	8	

109	−81°	32.6	1	52.0	−81	58.5	8.3 / 4.0	✓
110	−82°	34	1	59.7	−82	6.3	7.0	✓
111	−81°	39	2	3.2	−81	7.7	8.7	✓
112	−81°	43	2	17.1	−81	9.7	8.6	✓
113	−81°	44	2	18.7	−81	6.7	8.4	✓
114	−81°	50	2	30.4	−81	30.1	8.4	✓
115	−82°	42	2	27.2	−82	6.8	9.0	✓
116	−82°	43	2	33.4	−82	34.3	8.2	✓
117	−82°	44	2	35.8	−82	28.0	9.2	✓
118	−82°	46	2	42.1	−82	46.1	7.5	✓
119	−82°	45	2	40.0	−82	2.1	8.8	✓
120	−81°	56	2	42.8	−81	41.1	8.3	✓
121	−82°	47	2	44.0	−82	0.1	8.6	✓
122	−82°	48	2	51.0	−82	0.1	8.7	✓
123	−82°	51	3	1.8	−82	3.4	8.9	✓
124	−82°	53	3	5.8	−82	15.0	9.0	✓
125	−82°	54	3	8.8	−82	28.1	8.6	✓
126	−82°	52	3	3.5	−82	44.5	8.9	✓
127	−83°	51	2	56.5	−83	33.2	8.7	✓
128	−84°	30	2	56.4	−84	9.1	9.1	✓
129	−84°	31	2	58.9	−84	7.3	9.1	✓
130	−84°	34	3	1.2	−84	4.3	8.8	✓
131	−84°	32	2	59.5	−84	25.2	8.7	✓
132	−83°	58	3	12.5	−83	49.0	8.7	✓
133	−83°	60	3	15.0	−83	32.4	8.9	✓
134	−83°	61	3	16.2	−83	34.1	8.9	✓
135	−83°	64	3	22.8	−83	59.3	7.7	✓

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March 25, 1912

B2053 8 short disp.

No.	Class	Int.	Remark
136	F2	2	
137	G0	2	
138	F8	2	
139	K0	5	
140	F5	4	
141	A5	3	
142	K2	4	
143	G0	3	
144	A	4	
145	F2	8	
146	F2	5	
147	F8	2	
148	K2	5	
149	G	2	
150	K0	2	
151	A0	5	
152	F8	4	
153	F2	7	
154	A2	10+	Burned out
155	K	8	
156	K	4	
157	K5	5	
158	G0	3	Faint prism
159	F8	2	
160	F0	5	
161	G5	4	
162	A5	7	

136	−84°	41	3	24.4	−84	7.7	9.0 ✓
137	−83°	67	3	26.0	−83	48.8	9.1 ✓
138	−83°	65	3	25.0	−83	6.0	9.0 ✓
139	−83°	70	3	36.3	−83	37.8	8.8 ✓
140	−83°	71	3	42.4	−83	47.7	8.9 ✓
141	−83°	73	3	45.3	−83	44.5	9.1 ✓
142	−83°	74	3	51.1	−83	50.3	9.0 ✓
143	−84°	42	3	53.0	−84	33.0	8.9 ✓
144	−84°	43	3	54.2	−84	34.0	8.8 ✓
145	−84°	44	3	59.1	−84	27.4	7.6 ✓
146	−83°	78	4	5.9	−83	45.4	8.6 ✓
147	−83°	77	4	3.9	−83	25.4	9.0 ✓
148	−83°	79	4	6.6	−83	22.7	8.7 ✓
149	−82°	79	4	4.5	−82	41.0	8.9 ✓
150	−83°	82	4	15.4	−83	12.3	9.1 ✓
151	−83°	85	4	24.5	−83	24.8	8.2 ✓
152	−82°	85	4	23.0	−82	53.8	8.7 ✓
153	−83°	90	4	31.5	−83	16.8	8.0 ✓
154	−83°	91	4	37.5	−83	10.0	6.6 ✓
155	−83°	94	4	54.0	−83	43.3	8.3 ✓
156	−83°	96	4	58.4	−83	24.9	8.9 ✓
157	−82°	99	4	57.4	−82	43.8	8.6 ✓
158	−83°	29	1	44.4	−83	24.9	8.7 ✓
159	−83°	31	1	48.2	−83	22.5	9.0 ✓
160	−83°	32	1	50.7	−83	17.6	7.9 ✓
161	−82°	37	2	2.8	−82	53.8	8.5 ✓
162	−83°	35	2	5.5	−83	6.4	7.5 ✓

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March 25 1912

B 205 38 about disp.

No.	Class.	Int	Remark
163	B8	9	
164	K0	4	
165	A2	7	
166	F8	4	
167	A0	5	
168	K0	6	
169	F5	2	
170	K	1	
171	G5	2	
172	Mb	5	
173	K	9	
~~174~~	~~B0~~	~~8~~	
174	B0	8	
175	K5	3	
176	G	4	E.
177	Mb	3	
178	K0	3	
179	K	5	
180	G5	7	
181	F8	4	
182	K5	2	
183	G	4	
184	K0	9	
185	G0	5	
186	Mb	3	
187	K0	3	

Time 0.50

~~K8~~

~~K8~~

Contin in B 128, 158

163	-82°	39	2i	9.6	-82	53.5	7.6	
164	-83°	37	2i	9.1	-83	19.9	8.7	✓
165	-83°	42	2i	22.0	-83	5.1	8.2	✓
166	-83°	43	2i	22.7	-83	7.5	8.5	✓
167	-83°	45	2i	29.4	-83	1.1	8.2	✓
168	-83°	44	2i	26.4	-83	31.2	8.2	✓
169	-83°	41	2i	21.4	-83	20.9	8.9	✓
170	-83°	~~33~~ 40	2i	19.9	-83	28.2	9.2	✓
171	-83°	46	2i	31.0	-83	57.7	9.6	✓
172	-85°	30	2i	31.5	-85	9.7	8.6	✓
~~173~~	~~-83°~~	~~43~~	~~2i~~	~~49.4~~	~~-83~~	~~28.2~~	~~9.2~~	
173	-85°	33	2i	51.4	-85	32.6	8.1	✓
174	-85°	35	3	6.1	-85	15.5	8.1	✓
175	-85°	34	3	2.3	-85	40.0	8.9	✓
176	-85°	37	3	25.1	-85	43.9	8.7	✓
177	-86°	34	3	25.8	-86	6.0	9.1	✓
178	-84°	38	3	20.6	-84	59.2	9.0	✓
179	-84°	40	3	24.2	-84	37.0	8.7	✓
180	-85°	40	3	46.6	-85	7.5	8.2	✓
181	-85°	41	3	47.8	-85	42.0	8.6	✓
182	-85°	~~43~~ 43	4	~~6.0~~ 2.3	-85	~~37.6~~ 34.0	~~6.7~~ 9.0	✓
183	-85°	42	3	59.1	-85	1.5	8.7	✓
184	-84°	47	4	35.2	-84	27.8	7.8	✓
185	-83°	87	4	28.6	-83	53.9	8.2	✓
186	-85°	50	4	52.4	-85	2.5	9.1	✓
187	-84°	55	4	54.2	-84	36.3	8.9	✓

Identified by AMR. June 4, 1912

Checked by J. C. M. June 5, 1912

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April 23, 1917 Continued from page 108

B 20245 (Hunt)

No.	Int.	Class	Remark
81	1	K	
82	5	F0	
83	1	K	
84	10	A	E. Very poor focus.
85	3	K0	
86	1	K	
87	3	F8	
88	1	K	
89	2	G0	
90	3	G5	
91	2	F8	
92	2	G	Partly superposed on No. 51
93	2	G0	
94	1	G	Partly superposed on No. 93
95	3	G0	
96	2	G0	
97	2	F8	
98	3	G0	
99	3	G0	
100	2	K2	
101	3	G0	
102	2	K0	
103	3	A2	
104	2	G5	
105	2	G5	
106	2	F5	

81	−33°	53.8	1′	23.3	−33	59.8	9.1 ✓	
82	−33°	54.1	1′	23.7	−33	58.5	8.3 ✓	
83	−33°	54.5	1′	24.2	−33	41.8	8.4 ✓	
84	−34°	57.6	1′	23.0	−34	24.9	6.7 ✓	
85	−34°	50.5	1′	13.9	−34	22.9	8.5 ✓	
86	−34°	51.4	1′	14.8	−34	3.5	8.5 ✓	
87	−33°	47.5	1′	11.8	−33	51.8	8.8 ✓	
88	−34°	48.4	1′	12.8	−33	50.8	8.7 ✓	
89	−33°	47.8	1′	12.3	−33	19.1	9.1 ✓	
90	−33°	46.6	1′	10.5	−33	41.8	8.8 ✓	
91	−33°	46.2	1′	9.9	−33	18.6	9.1 ✓	
92	−33°	44.7	1′	8.5	−33	24.6	8.9 ✓	
93	−32°	50.4	1′	12.0	−32	39.9	8.6 ✓	
94	−32°	50.8	1′	12.0	−32	39.9 41.2	8.6 8.9 ✓	Ef this is a trail of −32°504. a ½
95	−32°	53.8	1′	16.6	−32	57.3	8.5 ✓	
96	−33°	51.0	1′	18.9	−33	12.6	8.6 ✓	
97	−32°	48.9	1′	9.7	−32	17.0	9.0 ✓	
98	−31°	50.1	1′	8.2	−31	1.1	9.0 ✓	
99	−30°	38.6	1′	7.8	−30	58.6	8.8 ✓	
100	−31°	48.0	1′	5.6	−31	13.6	8.5 ✓	
101	−30°	37.8	1′	7.0	−30	20.9	8.2 ✓	
102	−30°	37.6	1′	5.8	−30	35.9	8.5 ✓	
103	−30°	33.0	0′	58.3	−30	41.3	9.2 ✓	
104	−30°	31.5	0′	56.0	−30	39.7	8.8 ✓	
105	−31°	41.1	0′	56.4	−31	3.6	8.7 ✓	
106	−31°	40.6	0′	55.6	−31	35.8	8.5 ✓	

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April 23, 1912 (Cont)
B 20240 (short)

No.	Int.	Class.	Remark
107	3	g_5	
108	2	g	s.f. of 110
109	3	f	
110	4	f_5	
111	2	g	
112	3	g_5	Partly superposed on No. 111
113	2	g_0	
114	2	g_0	
115	4	g_5	
116	6	f_0	
117	7	K_0	

Feb. 4, 1916

118	6	A_2	s
119	1	g_0	
120	5	g_0	
121	3	f_0	

107	− 31°	39.1	0	53.9	− 31	56.3	8.5 ✓		
108	− 31°	39.2	0	54.0	− 31	6.9	8.7 ✓		
109	− 32°	39.5	0	53.5	− 32	38.0	9.0 ✓		
110	− 33°	38.8	0	57.3	− 33	25.1	8.7 ✓		
111	− 33°	41.2	1	2.4	− 33	3.7	9.3 ✓		
112	− 33°	41.5	1	2.5	− 33	6.0	8.5 ✓		
113	− 32°	43.9	1	1.6	− 32	19.4	8.7 ✓		
114	− 33°	42.2	1	3.3	− 33	52.5	9.0 ✓		
115	− 34°	47.8	1	9.8	− 34	41.3	9.0 ✓		
116	− 35°	44.8	1	12.8	− 35	29.0	8.7 ✓		
117	− 35°	47.4	1	16.9	− 35	38.6	8.0 ✓		

Additional Stars Identified by A.M.C. April 24, 1912
" " Checked by J.C.M. April 25, 1912.

118	− 29	45.4	1	19.6	− 29	2.6	8.0	115 m	B 23762
119	− 29	38.8	1	10.5	− 28	55.2	8.5	102 "	"
120	− 28	32.2	0	57.3	− 28	32	7.9	89 "	"
121	− 36	50.1	1	12.8	− 36	35	8.3	8 m	B 10635

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April 23, 1912

B 12228
~~B 10228~~

Trios

No.	Int.	class	Remarks
1	5	45	
2	2	a	
3	6	a	
4	6	Ma	
5	5	a	
6	5	F	
7	4	F	
8	7	F5	
9	21	Ka	
10	10	K	
11	3	F8	
12	6	F5	
13	6	Ma	Focus poor

Cont. in Bk. 48 P. 194

1 - 35°	474	1	16.9 - 35	38.6	8.0 ✓
2 - 35°	482	1	17.8 - 35	58.6	9.0 ✓
3 - 37°	544	1	21.2 - 37	2.1	8.5 ✓
4 - 37°	564	1	23.2 - 37	28.9	7.5 ✓
5 - 37°	572	1	24.4 - 37	4.6	8.0 ✓
6 - 36°	568	1	23.7 - 36	2.9	8.3 ✓
7 - 36°	580	1	25.2 - 36	19.6	8.5 ✓
8 - 35°	532	1	26.3 - 35	8.8	8.5 ✓
9 - 37°	584	1	26.7 - 37	45.6	8.6 ✓
10 - 37°	589	1	27.4 - 37	30.4	5.8 ✓
11 - 37°	586	1	26.8 - 37	56.0	8.5 ✓
12 - 37°	593	1	27.7 - 37	57.4	8.0 ✓
13 - 37°	603	1	30.4 - 37	5.6	7.6 ✓

Identified by AMC Aug. 29, 1912
Checked by J. C. M. Sept. 30, 1912
cards made out by M. C. W.

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April 24 1912

Time 1:00

I 37724

No.	Int.	Class	Remark
1	7	K0	E
21	7	K0	
3	3	A	E
4	9	K5	
5	H	G0	
6	6	F5	
7	8	F5	
8	4	F5	
9	3	G0	
10	4	F8	
11	10	K2	
121	3	Ma	
13	21	B5	
14	2'	B5	
15	3	F2	
16	3	F2	
17	5	B9	E
18	4	F0	E
19	7	K0	E
20	3	K0	E
21	3	G5	E
22	6	G5	
23	5	F5	
24	5	A0	
25	5	F5	
26	3	F5	
27	2	G5	

1	+9°	2262	9	48.8	+9	38.5	6.2	✓
21	+9°	2269	9	50.5	+9	1.5	6.8	✓
3	+8°	2296	9	51.5	+8	7.0	8.7	✓
4	+8°	2301	9	52.5	+8	44.3	5.0	✓
5	+9°	2280	9	53.3	+9	39.6	8.1	✓
6	+8°	2311	9	53.6	+8	56.2	8.2	✓
7	+8°	2316	9	57.4	+8	24.5	7.5	✓
8	+8°	2319	9	58.7	+8	28.6	8.5	✓
9	+9°	2289	9	59.5	+9	21.1	8.8	✓
10	+9°	2301	9	59.5	+9	27.8	8.8	✓
11	+10°	2112	10	0.2	+10	43.4	5.0	✓
12	+10°	2116	10	1.8	+10	17.6	7.5	✓
13	+9°	2311	10	2.6	+9	55.4	9.0	✓
14	+9°	2307	10	1.2	+9	21.7	9.0	✓
15	+8°	2327	10	3.3	+8	24.1	8.5	✓
16	+8°	2331	10	5.0	+8	24.0	9.0	✓
17	+7°	2245	10	1.2	+7	25.4	8.8	✓
18	+6°	2262	10	0.1	+6	59.9	8.5	✓
19	+6°	2265	10	1.7	+6	58.0	7.1	✓
20	+6°	2268	10	3.6	+6	53.2	8.9	
21	+7°	2259	10	4.8	+7	22.9	8.5	✓
22	+9°	2317	10	~~4.8~~ 5.8	+9	54.2	8.0	✓
23	+9°	2324	10	7.3	+9	56.8	8.5	✓
24	+10°	2132	10	9.4	+10	50.1	8.5	✓
25	+12°	2185	10	10.0	+12	0.6	8.6	✓
26	+11°	2203	10	10.7	+11	38.5	8.8	✓
27	+10°	2135	10	11.0	+10	51.2	9.2	✓

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I 37724

No.	Dur.	Class
28	5	K2
29	6	F5
30	6	F0
31	3	K5
32	6	A2
33	2	G5
34	4	F5
35	6	A Mayer 88
36	4	F0
37	8	F5
38	3	A
39	8	K0
40	2	K0
41	6	K5
42	9	Ma
43	7	F0
44	8	K2
45	3	F2
46	6	F5
47	6	K0
48	8	G5
49	4	G5
50	6	K0
51	10	A0
52	6	F8
53	2	G5
54	2	K0

28	+10°	2139	10	11.8	+10	37.0	8.0 ✓
29	+9°	2336	10	11.7	+9	56.4	8.1 ✓
30	+9°	2385	10	11.8	+9	43.8	8.2 ✓
31	+10°	2140	10	11.9	+10	1.0	8.7 ✓
32	+9°	2381	10	10.7	+9	25.3	8.2 ✓
33	+8°	2336	10	9.3	+8	57.7	8.8 ✓
34	+8°	2341	10	10.6	+8	15.0	8.7 ✓
35	+7°	2274	10	11.0	+7	59.9	8.5 ✓
36	+7°	2272	10	10.2	+7	8.0	8.5 ✓
37	+7°	2282	10	13.0	+7	8.8	8.0 ✓
38	+8°	2344	10	12.2	+8	20.5	9.0 ✓
39	+7°	2289	10	15.4	+7	16.6	6.5 ✓
40	+9°	2337	10	12.6	+9	22.2	8.2 ✓
41	+9°	2344	10	14.6	+9	42.1	7.0 ✓
42	+9°	2351	10	17.6	+9	32.5	6.0 ✓
43	+9°	2352	10	18.0	+9	29.6	7.8 ✓
44	+11°	2217	10	16.7	+11	19.6	7.3 ✓
45	+11°	2220	10	17.3	+11	35.9	9.0 ✓
46	+11°	2219	10	17.3	+11	53.0	8.4 ✓
47	+11°	2222	10	17.8	+11	52.5	8.0 ✓
48	+12°	2211	10	19.5	+12	3.0	7.2 ✓
49	+12°	2215	10	20.8	+12	18.2	8.0 ✓
50	+11°	2225	10	18.8	+11	13.8	7.7 ✓
51	+10°	2152	10	20.0	+10	29.4	7.0 ✓
52	+10°	2160	10	21.5	+10	53.4	7.7 ✓
53	+10°	2157	10	21.3	+10	18.2	8.7 ✓
54	+10°	2147	10	17.4	+10	43.1	8.5 ✓

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April 24, 1912 (Cont)
I 37724

No.	Int.	Class	Remark
55	1	B5	
56	3	B0	
57	2	K0	
58	5	K0	
59	2	B5	
60	7	F8	
61	6	B5	
62	2	F0	
63	2	B0	
64	1	B	
65	6	A2	
66	2	B5	
67	5	K0	
68	4	B5	
69	4	K0	
70	2	B	
71	4	F2	
72	2	B	
73	8	A2	
74	10	A	Burned out
75	2	F5	
76	8	F	E
77	5	K	E
78	5	K0	
79	3	K	
80	5	F5	
81	4	K2	

55	+11°	2221	10	17.6	+11	13.6	9.0 ✓
56	+11°	2206	10	12.3	+11	51.8	8.7 ✓
57	+11°	2207	10	12.6	+11	34.9	8.5 ✓
58	+12°	2193	10	12.7	+12	4.8	8.1 ✓
59	+11°	2210	10	13.8	+11	47.9	8.8 ✓
60	+11°	2212	10	14.2	+11	25.2	8.0 ✓
61	+12°	2200	10	14.4	+12	2.7	8.1 ✓
62	+12°	2203	10	14.9	+12	12.9	9.0 ✓
63	+13°	2244	10	14.3	+13	9.3	9.0 ✓
64	+13°	2248	10	16.3	+13	41.6	9.4 ✓
65	+13°	2252	10	17.3	+13	28.5	8.0 ✓
66	+13°	2254	10	18.3	+13	58.7	8.5 ✓
67	+14°	2244	10	19.0	+14	22.5	7.8 ✓
68	+13°	2256	10	18.9	+13	12.5	8.1 ✓
69	+13°	2258	10	19.6	+13	10.8	8.1 ✓
70	+12°	2213	10	20.2	+12	49.2	9.2 ✓
71	+12°	2217	10	21.7	+12	55.5	7.8 ✓
72	+13°	2261	10	20.8	+13	54.9	9.0 ✓
73	+14°	2251	10	21.0	+14	1.5	7.8 ✓
74	+13°	2183	9	50.4	+13	7.2	6.5 ✓
75	+12°	2128	9	51.9	+12	17.0	9.0 ✓
76	+11°	2134	9	50.9	+11	39.4	7.3 ✓
77	+11°	2136	9	51.0	+11	9.3	7.2 ✓
78	+12°	2132	9	54.1	+12	50.9	8.0 ✓
79	+13°	2194	9	54.3	+13	35.1	8.5 ✓
80	+14°	2193	9	55.8	+14	10.0	7.7 ✓
81	+14°	2196	9	56.6	+14	17.8	8.2 ✓

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April 24, 1912 (cont.) I 37724

No.	Int.	class	Remarks
82	3	F2	
83	3	K5	
84	8	A0	
85	7	F2	
86	3	F2	
87	3	K0	
88	2	K5	
89	10+	A	
90	4	G5	
91	4	K0	
92	4	K5	
93	2	F ~~0K~~	Difficult
94	9	F5	
95	3	A3	
96	3	F0	
97	10	Ma	
98	4	A0	
99	2	B0	
100	3	F8	
101	2	G	
102	6	G5	
103	4	G5	
104	2	B	
105	3	A2	
106	2	G0	
107	2	G	
108	1	G	Confirm

82	+13°	2197	9	56.8	+13	34.7	8.5 ✓
83	+12°	2137	9	56.0	+12	49.4	8.2 ✓
84	+12°	2138	9	56.4	+12	20.2	7.5 ✓
85	+10°	2100	9	55.8	+10	36.2	7.2 ✓
86	+11°	2162	10	57.2	+11	20.1	8.9 ✓
87	+11°	2163	9	57.9	+11	36.7	8.5 ✓
88	+11°	2166	9	59.0	+11	52.6	8.7 ✓
89	+12°	2149	10	0.6	+12	40.1	1.3 ✓
90	+12°	2160	10	2.7	+12	18.1	8.5 ✓
91	+12°	2161	10	2.9	+12	31.7	8.6 ✓
92	+12°	2162	10	3.8	+12	45.0	8.2 ✓
93	+13°	2217	10	2.8	+13	38.0	9.1 ✓
94	+14°	2217	10	3.8	+14	4.0	7.0 ✓
95	+14°	2221	10	6.1	+14	35.6	9.0 ✓
96	+14°	2225	10	8.0	+14	10.3	9.0 ✓
97	+14°	2228	10	8.9	+14	27.0	5.7 ✓
98	+13°	2230	10	9.2	+13	38.2	8.5 ✓
99	+13°	2232	10	9.7	+13	1.0	8.9 ✓
100	+11°	2171	10	6.2	+12	24.4	8.5 ✓
101	+12°	2172	10	6.4	+12	26.6	9.2 ✓
102	+12°	2177	10	7.4	+12	24.0	7.9 ✓
103	+11°	2190	10	6.1	+11	38.5	8.2 ✓
104	+11°	2192	10	6.5	+11	13.4	9.0 ✓
105	+11°	2186	10	4.9	+11	0.9	9.0 ✓
106	+10°	2127	10	7.1	+10	19.9	9.1 ✓
107	+12°	2181	10	8.4	+12	24.1	9.0 ✓
108	+12°	2182	10	8.5	+12	9.3	9.2 ✓

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April 24, 1912 (Cont.)

I 3772 4

No.	Int.	Class	Remark
109	4	Ko	
110	8	Go ~~Fk~~	
111	21	F8	
112	3	Go	
113	2	G	
114	4	Go	
115	21	K	
116	21	Ko	
117	2	G5	
118	10	Bq	
119	6	G5	
120	4	G5	
121	4	F0	
122	21	K	
123	3	K	E
124	6	F5	E
125	5	K0	E
126	7	K0	
127	7	A0	
128	5	A3	
129	7	G0	
June 13 0130	2	G5	
131	8	A5	
132	4	F8	
133	3	K	
134	3	F8	

cont. 134, 168

109	+13°	22 33	10	10.0	+13	50.8	8.3 J	
110	+13°	22 37	10	10.7	+13	21.1	7.5 J	
111	+13°	22 38	10	10.8	+13	31.2	8.4 J	
112	+13°	22 39	10	11.2	+13	0.7	8.6 J	
113	+12°	21 90	10	11.6	+12	42.2	9.0 J	
114	+14°	22 30	10	10.7	+14	39.8	8.3 J	
115	+15°	21 88	10	11.5	+15	23.4	8.5 J	
116	+15°	21 89	10	11.9	+15	23.4	8.7 J	
117	+14°	22 32	10	12.1	+14	54.4	9.0 J	
118	+15°	21 92	10	14.1	+15	42.3	6.3 J	
119	+16°	21 16	10	15.0	+16	5.1	7.3 J	
120	+15°	21 95	10	16.0	+15	34.1	8.7 J	
121	+14°	22 37	10	15.7	+14	38.4	8.7 J	
122	+14°	22 40	10	17.0	+14	18.8	9.0 J	
123	+16°	21 22	10	19.7	+16	31.0	7.5 J	
124	+16°	21 23	10	20.7	+16	31.3	7.0 J	
125	+15°	22 05	10	20.7	+15	30.6	7.7 J	
126	+15°	22 06	10	21.0	+15	5.8	7.2 J	
127	+15°	21 56	9	54.6	+15	17.0	8.0 J	
128	+15°	21 57	9	54.7	+15	1.7	8.2 J	
129	+15°	21 67	9	59.8	+15	52.8	7.5 J	
130	+13°	21 99	9	57.1	+13	33.1	8.5 J	
131	+13°	22 06	9	58.8	+13	29.5	7.3 J	
132	+13°	22 08	9	59.8	+13	43.7	8.0 J	
133	+15°	21 71	10	3.1	+15	12.3	8.5 J	
✓ 134	+16	2066	9	54.2	+16	4	8.3	6 m I 37571

Identified by A.M.C. May 3, 1912
Checked by J.C.M. June 5, 1912

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Tuesday, May 21, 1912

B 15173 abs't disp.

Time	Nr.	Int.	Class	Remark
12.24	1	4	K2	
	2	5	A2	
	3	4	A5	
	4	10	A5	
	5	7	F0	
	6	4	F5	Difficult
	7	6	F5	
	8	3	A	
	9	5	A2	
	10	5	K0	
	11	7	K5	
12.27	12	9	K5	
2.41	13	4	K5	
	14	7	G5	
	15	8	K0	
	16	5	G0	
	17	4	A	
	18	5	F5	
	19	3	A	
	20	9	B9	
	21	2	F5	
	22	7	B8	
	23	8	F0	
	24	7	K0	
	25	10	K0	
	26	4	G0	
	27	2	K5	

1	−83°	7′30″	21″	51′.21	−83°	57′.7	8.2 ✓
2	−84°	6′39″	22″	8′.4	−84°	8′.6	7.7 ✓
3	−83°	7′38″	22″	28′.9	−83°	27′.6	8.0 ✓
4	−83°	7′39″	22″	24′.2	−83°	53′.9	6.7 ✓
5	−84°	6′46″	22″	29′.7	−84°	23′.6	7.8 ✓
6	−84°	6′42″	22″	28′.9	−84°	46′.8	8.6 ✓
7	−84°	6′50″	22″	42′.0	−84°	1′.0	7.7 ✓
8	−83°	7′41″	22″	38′.1	−83°	52′.6	8.9 ✓
9	−84°	6′56″	23″	27′.3	−84°	31′.8	8.0 ✓
10	−84°	6′58″	23″	39′.2	−84°	33′.4	8.1 ✓
11	−83°	7′58″	23″	46′.2	−83°	42′.2	8.0 ✓
12	−85°	2′	0″	8′.5	−85°	41′.3	7.5 ✓
13	−85°	7′	0″	36′.4	−85°	56′.2	8.7 ✓
14	−86°	8′	0″	38′.8	−86°	5′.8	8.0 ✓
15	−86°	9′	0″	39′.9	−86°	23′.2	7.7 ✓
16	−86°	10′	0″	46′.0	−86°	34′.5	8.0 ✓
17	−86°	11′	0″	46′.5	−86°	57′.7	8.3 ✓
18	−87°	8′	0″	37′.3	−87°	23′.6	8.5 ✓
19	−87°	1′	0″	5′.3	−87°	0′.2	8.4 ✓
20	−86°	2′	0″	2′.1	−86°	44′.1	6.8 8.6 ✓
21	−86°	4′24″	23″	46′.9	−86°	23′.6	8.6 ✓
22	−86°	4′23″	23″	44′.3	−86°	35′.5	7.7 ✓
23	−87°	3′39″	23″	27′.0	−87°	6′.4	7.8 ✓
24	−86°	4′18″	23″	16′.4	−86°	23′.8	8.0 ✓
25	−88°	2′04″	23″	8′.3	−86°	10′.1	7.1 ✓
26	−88°	2′02″	22″	6′.4	−88°	14′.2	8.4 ✓
27	−88°	2′01″	22″	46′.0	−88°	38′.1	9.2 ✓

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Tuesday, May 21, 1912

B 15173 chart displ.

No.	Int.	Class	Remark
28	2	Ao	
29	5	Ko	
30	3	ly5	
31	3	A2	
32	2	K5	
33	2	K0	
34	8	Ao	
35	5	K0	
36	10	ly5	
37	4	F8	
38	6	F5	
39	2	ly5	
40	4	K5	
41	6	A2	
42	8	A2	
43	8	K0	
44	9	K0	
45	8	K2	
46	5	F8	
47	2	K	Partly superposed on 48.
48	7	F0	
49	8	Bq	
50	1	ly	
51	2	K2	
52	1	ly	
53	3	K2	
54	2	K0	

28	−88°	19.7	22	20.7	−88	32.0	8.8 J
29	−87°	32.3	22	1.9	−87	57.1	8.3 ✓
30	−87°	31.8	21	47.2	−87	52.8	8.8 J
31	−87°	32.4	22	3.9	−87	36.3	8.8 ✓
32	−87°	32.7	22	7.0	−87	27.8	9.0 J
33	−87°	32.0	21	56.3	−87	16.5	9.0 -
34	−87°	31.8	22	41.6	−87	4.8	8.0 J
35	−86°	40.3	22	0.9	−86	46.5	8.6 ✓
36	−86°	40.6	22	7.0	−86	36.0	7.0 J
37	−86°	39.8	21	34.6	−86	29.4	8.6 J
38	−86°	39.6	21	21.8	−86	24.1	8.1 J
39	−86°	39.1	20	53.0	−86	14.0	9.1 J
40	−86°	39.0	20	50.1	−86	8.8	8.7 J
41	−86°	38.9	20	50.0	−86	2.9	8.3 J
42	−85°	51.8	20	52.9	−85	47.9	7.8 J
43	−85°	51.6	20	47.0	−85	42.0	8.1 J
44	−85°	52.8	21	28.6	−85	36.4	7.6 J
45	−85°	51.9	21	4.6	−85	20.4	7.9 J
46	−85°	51.7	20	50.8	−85	16.4	8.0 ✓
47	−84°	62.7	20	57.1	−84	47.0	8.5 J
48	−84°	62.6	20	55.0	−84	49.1	7.6 J
49	−84°	63.3	21	28.3	−84	31.8	7.2 J
50	−84°	63.1	21	19.7	−84	41.7	8.7 J
51	−85°	52.7	21	29.5	−85	6.8	8.7 ✓
52	−86°	41.2	22	26.4	−86	8.1	9.0 ✓
53	−86°	41.0	22	22.3	−86	4.3	8.7 ✓
54	−86°	40.9	22	21.7	−86	2.9	9.0 ✓

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Tuesday, May 21, 1912

B 5173 short disp.

Nr.	Int.	Class	Remark
55	2	A	
56	1	K	
57	2	A	
58	3	K0	
59	5	K0	
60	6	A3	
61	10	B9	
62	3	K0	
63	5	F5	
64	3	K0	
65	7	F0	
66	5	A2	
67	7	F5	
68	5	A	
69	3	A	
70	4	F5	
71	2	A5	Difficult.
72	6	A	E.
73	4	F2	
74	2	F5	
75	5	F5	
76	6	K0	
77	3	K0	
78	18	F	
79	5	A0	
80	4	K2	
Time: 2.57	84		

Cont on page 218

55	−85°	555	23	11.5	−85	11.7	8.9 ✓
56	−85°	550	22	54.2	−85	33.1	9.2 ✓
57	−85°	512	20	30.8	−85	28.4	8.8 ✓
58	−85°	508	20	21.9	−86	54.3	8.5 ✓
59	−86°	379	20	43.0	−86	28.0	8.3 ✓
60	−86°	386	20	0.5	−86	41.8	8.3 ✓
61	−87°	298	20	9.1	−87	12.8	7.4 ✓
62	−87°	306	20	50.8	−87	18.7	8.9 ✓
63	−87°	303	20	34.4	−87	32.4	8.9 ✓
64	−87°	305	20	46.0	−87	42.0	8.9 ✓
65	−87°	295	19	22.0	−87	48.4	8.4 ✓
66	−87°	293	19	17.9	−87	59.7	8.7 ✓
67	−88°	169	18	55.1	−88	6.0	8.5 ✓
68	−88°	170	19	9.1	−88	26.8	8.7 ✓
69	−84°	6	0	17.6	−84	26.2	8.3 ✓
70	−83°	6	0	23.1	−83	49.9	7.8 ✓
71	−84°	7	0	28.6	−84	15.0	8.2 ✓
72	−83°	10	0	36.8	−83	43.2	7.8 ✓
73	−84°	10	0	36.9	−84	46.4	8.1 ✓
74	−84°	13	0	45.7	−84	41.0	8.4 ✓
75	−84°	16	0	49.4	−84	25.4	7.7 ✓
76	−84°	20	1	6.1	−84	15.5	8.2 ✓
77	−83°	21	1	3.6	−83	55.5	8.3 ✓
78	−85°	17	1	44.8	−85	24.0	6.7 ✓
79	−85°	32	2	3.4	−85	38.5	7.7 ✓
80	−85°	24	2	5.4	−85	21.2	8.0 ✓

Identified by ams. June 3, 1912

Checked by J.C.M. June 5, 1912

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Thursday, Mar. 17, 1913.

Time: 1.35

B 20456 chart corr. (cont. fr. pg. 48)

	Nos.	Int	Class	Remark
	82	2	H0	
	83	2	G5	
	84	1	G2	
	85	3	G0	
	86	2	F8	
	87	2	G5	
	88	1	G0	
	89	3	F8	
	90	1	K	
	91	1	K	
	92	3	A	
	93	4	A2	
	94	4	G5	
	95	1	B5	
	96	1	B0	
	97	5	F0	
	98	2	B8	
11.38	99	7	B0	
1.05	100	7	A2	
	101	3	F5	
	102	3	B0	
	103	5	B0	
	104	7	A5	
	105	3	B5	
Time: 1.10	106	2	B5	
	107			
	108			

82	-36°	196	0°	35.0	-30	12.1	8.9	✓
83	-29°	190	0°	34.0	-29	14.9	8.9	✓
84	-29°	192	0°	34.1	-29	11.9	9.1	✓
C.D.M.	-28°	196	0°	34.7	-28	21.4	9.0	✓
C.P.D. 85	-28°	57	0°	34.7	-28	21.9	9.2	
C.D.M.	-28°	188	0°	33.2	-28	13.3	9.0	✓
C.P.D. 86	-28°	48	0°	33.2	-28	13.9	10.2	
C.D.M.	-27°	196	0°	33.0	-27	63.3	9.2	✓
C.P.D 87	-27°	46	0°	33.1	-27	53.0	9.8	
C.D.M.	-27°	192	0°	33.3	-27	55.0	9.5	✓
C.P.D 88	-27°	47	0°					
C.D.M.	-28°	167	0°	29.8	-28	57.9	9.0	✓
C.P.D 89	-28°	42	0°	29.9	-28	67.6	9.7	
90	-29°	165	0°	29.5	-29	10.9	9.1	✓
91	-29°	161	0°	28.6	-29	28.4	9.5	✓
92	-29°	213	0°	39.4	-29	22.4	8.9	✓
93	-29°	218	0°	40.0	-29	31.4	8.9	✓
94	-29°	219	0°	40.4	-29	13.9	8.4	✓
C.D.M.	-28°	225	0°	38.9	-28	21.8	9.6	✓
C.P.D. 95	-28°	57	0°	38.9	-28	32.2	9.6	
C.D.M.	-28°	226	0°	39.8	-28	26.1	9.0	✓
C.P.D 96	-28°	62	0°	39.8	-28	24.9	9.8	
C.D.M.	-27°	243	0°	41.5	-27	39.4	9.6	✓
C.P.D 97	-27°	60	0°	41.6	-27	39.4	8.8	
C.D.M.	-27°	247	0°	42.1	-27	2.9	8.8	✓
C.P.D 98	-27°	62	0°	42.1	-27	3.1	9.8	
C.D.M.	-27°	250	0°	42.4	-27	2.9	8.8	✓
C.P.D 99	-27°	64	0°	42.4	-27	3.2	8.0	
C.D.M.	-28°	260	0°	43.3	-28	17.5	8.5	✓
C.P.D 100	-28°	67	0°	43.3	-28	17.2	7.8	
C.D.M.	-28°	264	0°	44.5	-28	6.8	8.6	✓
C.P.D 101	-28°	71	0°	44.5	-28	7.1	8.8	
C.D.M.	-28°	265	0°	45.9	-28	18.5	8.5	✓
C.P.D 102	-28°	71	0°	45.9	-28	18.2	8.8	
C.D.M.	-27°	277	0°	46.2	-27	4.1	8.4	✓
C.P.D 103	-27°	69	0°	46.2	-27	4.7	8.2	
104	-29°	244	0°	45.7	-29	19.9	8.1	✓
105	-29°	255	0°	47.2	-29	12.9	8.1	✓
106	-29°	258	0°	47.8	-29	28.9	8.0	✓

Identified by Mr. C. W.
Checked by AHC. April 25. 1913
cards made out by Mr. C.W.
Cards checked by AHC.

cont. in 127, 178

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Tuesday, Mar 18, 1913.

Time: 9.30 B 39504 shot dispo. 0 47 −23.2

No.	Int.	Class	Remarks
1	4	Jf0	
2	2	Jm	
3	2	Jg5	
4	4	Jg5	Partly superposed on 5.
5	5	Jg5	
6	10	Jg	Burned out.
7	4	A5	
8	7	Jf0	
9	6	A3	
10	1	Jg0	
11	3	Jg0	
12	2	Jg0	
13	1	Jf0	
14	9	Jf5	
15	2	Jf5	
16	10	Jg0	
17	1	Jf5	
18	3	Jf2	
19	2	Jf5	
20	1	Jf0	
21	2	Jg0	
22	5	Jg0	
23	8	Jf0	
24	1	Jg0	
25	1	Jg0	
26	5	Jg0	
27	1	Jf5	

1	−25°	207	0	29.2	−25	33.2	7.7	1 ↓
2	−25°	212	0	29.6	−25	34.1	8.0	1 ↓
3	−24.5°	213 ~~255~~	0	29.8 ~~33.5~~	−24.5	18.6 ~~52.5~~	8.3 ~~8.8~~	1 ↓
4	−25°	221	0	30.6	−25	11.0	8.2	↓
5	−25°	222	0	30.6	−25	10.0	8.3	1 ↓
6	−25°	225	0	30.9	−25	27.4	5.8	↓
7	−25°	233	0	32.2	−25	21.2	8.6	↓
8	−25°	234	0	32.6	−25	47.8	6.5	↓
9	−26°	196	0	32.7	−26	17.1	8.3	↓
10	−25°	236	0	32.9	−25	43.8	9.1	↑ ↓
11	−25°	245	0	33.7	−25	42.8	8.5	↓
12	−25°	242	0	33.2	−25	12.6	8.8	↑ ↓
13	−24°	255	0	33.5	−24	52.5	8.8	↑ ↓
14	−24°	244	0	32.4	−24	17.2	7.2	↓ .
15	−24°	262	0	34.2	−24	7.2	9.3	↑ ↓
16	−24°	263	0	34.3	−24	29.0	6.3	↓
17	−24°	269	0	34.9	−24	12.8	9.3	↑ ↓
18	−23 ~~−23~~	256	0	34.9	−23	50.0	8.6	↑ ↓
19	−23°	262	0	36.0	−23	40.8	8.3	↑ ↓
20	−23°	263	0	36.2	−23	58.3	8.9	↑ ↓
21	−24°	284	0	36.6	−24	56.3	8.7	↑ ↓
22	−25°	265	0	35.5	−25	26.9	8.1	↓
23	−25°	264	0	35.4	−25	52.8	6.8	↓
24	−25°	268	0	35.8	−25	37.8	9.3	↑ ↓
25	−25°	277	0	37.4	−25	24.9	8.9	↑ ↓
26	−25°	280	0	37.8	−25	33.5	8.3	↑ ↓
27	−25°	287	0	39.0	−25	35.8	9.2	↑ ↓

cards made out

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Tuesday, May. 14, 1913.

B 3950 Ephot. corr.

No.	Int.	Class	Remarks
28	4	F8	
29	3	F5	
30	2	Ly0	
31	2	Ly5	E.
32	5	F8	E.
33	2	F5	
34	7	Ly0	
35	3	Ly5	
36	4	A5	
37	3	Ly0	
38	4	Ly5	
39	3	Ly5	
40	2	F10	
41	5	Ly5	
42	10	Ly5	
43	4	F10	
44	3	A5	
45	4	Ly5	
46	7	Ly5	
47	10	A3	
48	5	Ly0	
49	5	Ly5	
50	2	Ly5	
51	7	Ly0	
52	2	Ly5	
53	2	Ly0	
54	1	Ly0	

28	− 26°	230	0	37.3	− 26	36.0	7.9
29	− 26°	206	0	34.0	− 26	44.0	8.0
30	− 26°	201	0	33.2	− 26	40.9	8.4
31	− 27°	200	0	34.4	− 27	57.0	8.3
32	− 28°	195	0	34.6	− 28	3.4	7.8
33	− 27°	212	0	36.8	− 27	18.0	8.8
34	− 27°	223	0	38.3	− 27	11.6	7.4
35	− 26°	245	0	39.9	− 26	3.9	8.0
36	− 26°	247	0	40.1	− 26	13.2	8.0
37	− 26°	252	0	41.2	− 26	3.5	8.4
38	− 26°	254	0	41.4	− 26	4.5	8.3
39	− 25°	306	0	41.9	− 25	45.4	8.1
40	− 25°	309	0	42.8	− 25	15.2	8.1
41	− 24°	339	0	42.6	− 24	49.0	8.3
42	− 24°	345	0	43.1	− 24	48.6	6.1
43	− 24°	351	0	43.8	− 24	48.1	8.0
44	− 23°	311	0	42.6	− 23	45.2	8.7
45	− 24°	346	0	43.2	− 24	0.2	8.2
46	− 23°	315	0	43.2	− 23	54.6	7.3
47	− 24°	347	0	43.4	− 24	2.8	6.5
48	− 24°	358	0	44.6	− 24	21.2	8.3
49	− 24°	365	0	45.4	− 24	15.6	7.8
50	− 23°	332	0	45.3	− 23	35.1	8.3
51	− 23°	334	0	46.1	− 23	18.0	7.1
52	− 22°	150	0	46.4	− 22	59.7	8.5
53	− 23°	344	0	48.1	− 23	33.4	8.9
54	− 24°	383	0	48.0	− 24	16.8	9.2
						cards	made out

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Tuesday, May 18, 1913.

1339 $\frac{50}{4065}$ short disp.

No	Int.	Class	Remark
55	4	fg5	
56	2	fg0	
57	4	f8	
58	2	fg0	
59	3	fg0	
60	4	f8	
61	5	f5	
62	1	fg	
63	4	fg0	
64	2	f8	
65	2	fg0	
66	9	A2	
67	3	ma	
68	3	fg0	
69	2	fg0	
70	2	fg5	
71	7	fg5	
72	6	fg0	
73	1	fg	Mostly all superposed on 72.
74	1	fg0	
75	3	f5	
76	10	f5	
77	1	fg0	
78	10	fg0	
79	1	fg0	
80	1	fg	
81	6	fg0	

55	-24°	378	0	47.4	-24	41.8	8.5 ✓
56	-24°	389	0	48.6	-24	35.9	8.6 ✓
57	-24°	408	0	50.5	-24	20.3	8.6 ✓
58	-24°	420	0	53.0	-24	22.3	9.0 ∧✓
59	-25°	388	0	53.8	-25	13.8	8.0 ✓
60	-25°	389	0	53.8	-25	6.7	8.3 ✓
61	-24°	435	0	54.6	-24	56.3	8.7 ✓
62	-25°	397	0	54.8	-25	6.7	9.0 ✓
63	-25°	399	0	55.0	-25	25.5	8.3 ✓
64	-25°	394	0	54.3	-25	46.6	8.5 ∧✓
65	-25°	382	0	53.0	-25	37.6	8.5 ∧✓
66	-26°	303	0	50.7	-26	2.6	7.1 ✓
67	-26°	300	0	50.2	-26	13.5	7.7 ✓
68	-26°	297	0	49.6	-26	38.9	8.5 ∧✓
69	-25°	299	0	~~50.0~~ 49.7	-25	~~13.8~~ 1.9	8.2 ∧✓
70	-26°	294	0	49.1	-26	16.8	8.3 ∧✓
71	-25°	355	0	49.3	-25	20.1	7.2 ✓
72	-25°	347	0	47.9	-25	42.9	8.5 ✓
73	-25°	345	0	47.9	-25	40.1	9.0 ∧✓
74	-25°	347	0	48.0	-25	18.5	9.0 ∧✓
75	-25°	336	0	47.0	-25	37.6	9.0 ✓
76	-25°	338	0	47.1	-25	27.4	6.6 ✓
77	-25°	328	0	45.7	-25	52.6	8.1 ∧✓
78	-24°	376	0	46.5	-24	40.7	5.7 ✓
79	-25°	264	0	43.2	-25	7.8	8.4 ∧✓
80	-27°	247	0	42.1	-27	2.9	8.8 ∧✓
81	-27°	250	0	42.4	-27	2.9	7.8 ∧✓

cards made out

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Tuesday, May 18, 1913.

TS 39504 clear wisp.

No.	Int	Class	Remark
82	3	Fo	E.
83	6	F2	E.
84	3	K3	E.
85	2	Fo	
86	5	Ko	
87	2	Ko	
88	3	G2	
89	1	F	
90	7	G0	
91	6	F8	
92	8	G0	
93	5	G0	
94	1	K5	
95	6	G5	
96	4	F8	
97	2	K0	
98	1	G	
99	6	G2	
100	6	F5	
101	1	K5	
102	5	F8	
103	9	G0	
104	1	G2	
105	3	K5	
106	2	K5	
107	1	K5	
108	2	K0	

82	-27°	243	0	41.5	-27	39.4	8.6	1 V
83	-28°	253	0	43.3	-28	17.5	8.5	1 V
84	-28°	260	0	44.5	-28	6.5	8.6	1 V
85	-27°	273	0	45.7	-27	11.8	9.1	1 V
86	-27°	277	0	46.2	-27	4.1	8.4	1 V
87	-27°	285	0	47.6	-27	7.7	9.0	^ V
88	-27°	308	0	52.2	-27	45.8	7.6	1 V
89	-26°	311	0	51.7	-26	53.9	8.6	^ V
90	-26°	314	0	52.1	-26	33.4	7.0	V
91	-26°	321	0	53.8	-26	32.4	7.9	V
92	-26°	326	0	54.5	-26	25.3	7.6	V
93	-26°	327	0	54.6	-26	57.8	8.2	V
94	-26°	334	0	56.8	-26	32.7	9.1	^ V
95	-26°	343	0	57.2	-26	51.4	7.7	V
96	-24°	471	0	58.2	-24	56.7	8.7	V
97	-24°	458	0	56.9	-24	32.8	8.8	^ V
98	-24°	457	0	56.8	-24	46.8	9.0	^ V
99	-24°	448	0	55.7	-24	3.2	8.1	V
100	-23°	383	0	57.1	-23	51.2	8.3	V
101	-24°	474	0	58.8	-24	31.8	8.5	V
102	-24°	480	0	59.7	-24	15.8	8.4	V
103	-24°	484	1	0.1	-24	39.4	6.3	V
104	-23°	404	2	0.9	-23	54.2	8.7	1 V
105	-23°	231	0	31.7	-23	1.1	7.7	1 V
CWM	-22°	197	0	32.0	-22	51.6	8.6	^ V
106	~~-22°~~	~~136~~	~~0~~	~~31.2~~	~~-22~~	~~58.3~~	~~9.5~~	^ V
107	-23°	230	0	31.5	-23	39.8	8.7	1 V
108	-22°	112	0	32.4	-22	22.5	8.5	^ V

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Tuesday, June 18, 1913.

B 39504 short disp.

Inc.	Int.	Class	Remarks
109	2	h_0	
110	2	H_2	
111	2	H_0	
112	4	H_5	
113	2	Q	
114	6	H_0	
115	2	H_5	
116	1	h_7	Partly superposed on 115.
117	1	h_7	
118	2	h_0	
119	3	H_0	
120	3	H_0	
121	1	H_8	
122	3	H_2	
123	4	H_0	
124	10	H_0	
125	3	H_0	
126	1	H_5	
127	3	Q2	
128	2	h_5	
129	1	H_0	
130	7	h_5	
131	4	H_5	
132	1	H_2	
133	104	P_9	
134	1	h_5	
135	1	Q3	

109	-22°	109	0	31.8	-22	4.5	8.7
110	-21°	80	0	31.0	-21	59.5	8.6
111	-21°	81	0	31.0	-21	20.3	8.7
112	-21°	91	0	34.3	-21	5.5	7.5
113	-20°	118	0	34.1	-20	39.9	8.9
114	-20°	129	0	35.5	-20	59.3	7.0
115	-21°	95	0	35.4	-21	8.8	9.0
116	-21°	96	0	35.6	-21	8.6	8.8
117	-21°	97	0	35.7	-21	25.4	8.7
118	-21°	98	0	36.6	-21	52.0	8.7
119	-22°	118	0	35.6	-22	27.0	8.0
120	-22°	120	0	35.9	-22	30.1	8.3
121	-23°	267	0	35.0	-23	8.8	8.8
122	-23°	268	0	37.3	-23	19.1	8.7
123	-22°	124	0	37.1	-22	51.8	8.0
124	-22°	127	0	37.6	-22	48.0	5.5
125	-22°	128	0	37.7	-22	11.9	8.7
126	-22°	129	0	38.5	-22	0.6	9.0
127	-21°	106	0	38.4	-21	42.1	8.7
128	-21°	107	0	39.0	-21	27.3	8.5
129	-21°	111	0	40.0	-21	39.6	8.9
130	-21°	119	0	41.9	-21	56.1	7.0
131	-22°	138	0	42.1	-22	11.4	8.2
132	-21°	123	0	42.5	-21	55.1	8.5
133	-22°	134	0	40.8	-22	30.5	6.2
134	-23°	300	0	40.8	-23	26.8	8.6
135	-24°	297	0	38.6	-24	21.8	9.1

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Tuesday, May 18, 1913.

F339504 Shot auto.

No.	Int.	Class	Remark
136	4	K0	
137	2	F5	
138	2	K1	
139	1	G5	
140	1	K0	
141	2	G0	
142	7	C5	
143	1	G5	
144	7	K5	
145	1	K	
146	1	G5	
147	7	F5	
148	6	G0	
149	5	K0	
150	3	K0	
151	3	K2	
152	5	K0	
153	2	F5	
154	4	F2	
155	3	K5	
156	2	G0	
157	4	F5	
158	7	F0	
159	1	G	
160	5	F8	
161	2	K2	
162	3	G0	

136	-24°	306	0	39.4	-24	7.8	8.4	✓
137	-24°	314	0	40.2	-24	11.2	9.1	✓
138	-24°	324	0	41.4	-24	12.6	8.6	✓
139	-23°	282	0	38.8	-23	32.8	9.1	✓
140	-24°	299	0	39.0	-24	46.3	9.0	✓
141	-24°	309	0	39.8	-24	50.3	9.1	✓
142	-24°	321	0	40.8	-24	54.1	7.6	✓
143	-25°	303	0	41.1	-25	9.6	9.1	✓
144	-22°	139	0	42.8	-22	53.6	7.8	✓
145	-22°	141	0	44.2	-22	14.8	9.1	✓
146	-22°	144	0	44.8	-22	12.0	9.1	✓
147	-21°	129	0	45.1	-21	53.8	7.3	✓
148	-21°	130	0	45.3	-21	46.7	8.0	✓
149	-22°	147	0	45.5	-22	13.1	7.8	✓
150	-22°	152	0	46.8	-22	4.8	8.5	✓
151	-22°	155	0	47.5	-22	15.4	8.5	✓
152	-22°	161	0	48.2	-22	43.2	8.0	✓
153	-23°	358	0	50.0	-23	10.0	9.1	✓
154	-23°	364	0	51.3	-23	6.0	8.2	✓
155	-23°	367	0	51.9	-23	16.5	7.8	✓
156	-22°	172	0	52.8	-22	59.7	9.0	✓
157	-21°	142	0	51.0	-21	57.9	7.2	✓
158	-21°	141	0	50.8	-21	27.1	7.2	✓
159	-21°	185	0	48.7	-21	38.5	9.1	✓
160	-21°	136	0	48.9	-21	29.6	7.8	✓
161	-21°	143	0	51.2	-21	64	8.8	✓
162	-21°	147	0	52.8	-21	14.3	9.0	✓

Cards run a de out

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T339504 short disp.

No.	Int.	Class	Remark
163	4	Iyo	
164	2	IIIr2	
165	1	Iyo	
166	2	IIr2	
167	2	IIIo	
168	2	IIIr2	
169	4	Ar2	
170	3	Ao	
171	4	IIo	
172	2	IIIr5	
173	4	IIo	
174	3	IIIr2	
175	2	IIIo	
176	5	Iyo	
177	5	IIIr2	
178	3	IIIo	
179	7	Ao	
180	10	Ao	
181	5	Ima	
182	7	IIIo	
183	7	Iyo	
184	5	Iy5	
185	4	Iyo	
186	7	IIIo	
187	2	IIIr5	
188	1	Iy5	
189	4	IIr2	

163	-21°	149	0	53.2	-21	3.8	8.5	^v
164	-21°	148	0	53.0	-21	50.7	9.0	^v
165	-22°	179	0	54.4	-22	13.7	9.1	^v
166	-23°	388	0	58.3	-23	9.0	8.8	^v
167	-22°	195	0	59.3	-22	27.5	9.0	^v
168	-22°	203	1	1.0	-22	23.4	8.7	^v
169	-21°	100	0	36.7	-21	2.8	8.8	v
170	-21°	99	0	36.7	-21	11.7	9.0	v
171	-21°	104	0	37.7	-21	7.5	8.5	v
172	-20°	129	0	39.1	-20	53.5	8.7	^v
173	-20°	131	0	39.5	-20	44.9	8.7	v
174	-20°	133	0	40.1	-20	45.4	8.3	v
175	-20°	138	0	41.8	-20	29.8	8.8	^v
176	-20°	148	0	44.9	-20	12.5	8.3	^v
177	-20°	149	0	45.3	-20	41.0	7.8	v
178	-21°	127	0	43.7	-21	39.7	8.6	^v
179	-20°	167	0	49.3	-20	13.9	7.8	v
180	-19°	147	0	50.5	-19	46.7	7.2	v
181	-20°	174	0	51.6	-20	25.1	7.0	v
182	-20°	175	0	51.9	-20	6.8	7.8	v
183	-20°	179	0	53.3	-20	10.2	8.0	v
184	-20°	183	0	54.6	-20	11.8	8.0	v
186	-20°	186	0	55.0	-20	26.7	8.2	v
186	-20°	181	0	53.5	-20	52.5	7.2	v
187	-21°	158	0	55.6	-21	18.9	9.0	^v
188	-21°	163	0	57.6	-21	76.1	9.0	^v
189	-19°	126	0	41.5	-19	19.9	8.3	v

cards made out

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Tuesday, Mar. 18, 1913.
B39504 short disp.

	No	Int.	Class	Remark
	190	3	Ko	
	191	3.	Ko	
	192	3	K2	
	193	5	K3	
	194	7	K0	
	195	7	Q5	
	196	2	K5	
	197	1	K'	
	198	2	K0	
	199	4	G5	
June 10.13	200	4	F8	
	201	10	G5	
	202	3	G0	
	203	2	cK0	
	204	5	G0	
	205	3	K0	

	190	-19°	183	0	43.5	-19	17.8	8.6 ✓
	191	-19°	140	0	45.6	-19	22.2	8.5 ✓
	192	-19°	144	0	48.7	-19	32.7	8.3 ✓
	193	-19°	143	0	48.6	-19	18.9	8.0 ✓
	194	-18°	163	0	53.5	-18	54.0	7.7 ✓
	195	-18°	143	0	45.9	-18	26.5	7.1 ✓
	196	-20°	112	0	32.0	-20	53.1	8.5 ✓
	197	-20°	118	0	32.0	-20	39.6	9.0 ✓
	198	-20°	109	0	31.4	-20	32.1	8.7 ✓
	199	-20°	97	0	30.1	-20	21.7	7.8 ✓
	200	-19°	104	0	35.5	-19	52.0	8.5 ✓
	201	-23°	293	0	40.0	-23	12.4	5.8 ✓
C.W.M.	202	-22°	248	0	40.0	-22	55.9	8.2 ✓
	203	-21°	90	0	33.2	-21	47.3	9.0 ✓
	204	-20°	128	0	37.8	-20	5.5	8.3 ✓

Identified by AMC Mar. 18, 1913

Identifications with the mark ✓ checked by D.D.C. March 20 1913.

cards made out by Mr. C. W.

Cards checked by AMC

✓ 205 – 23 380 0 58.6 –23 10 F.7 129 on B12235

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Wednesday April 23, 1913

(Cont. from page 198) B 15173

No.	Int.	class	Remark
81	4	K0	
82	10	G0	
83	3	K2	
84	5	K5	

81	−82°	28	1	39.9	−82	54.8	7.8 ✓
82	−83°	27	1	41.3	−83	36.6	6.3 ✓
83	−83°	28	1	42.4	−83	52.5	8.2 ✓
84	−83°	30	1	47.7	−83	59.4	7.7 ✓

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