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HENRY DRAPER MEMORIAL.

Spectra to be Confirmed in
Cat of III Stars.

2.

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" " " 3h. " 36, 96,
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Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	Bd.
BD.+27° 4066	21h 23.1m	+27° 27'	8.0	1270, 1316, 2176, 2232	Ma	..	..
+61° 2134	23.3	+62 9	8.8	1228, 1269, 2850, 1732	..	E	Bands. III.?, IV.?, III.?
−9° 5753	23.5	−9 25	7.5	1669, 1493, 4387, 1411	..	K	IIIa IIIa
+23° 4319	23.8	+24 11	9.1	2541, 1270, 1316, 2176	..	E. S.	III.!!; IIIa!!!
+25° 4542	24.2	+25 31	6.5	2541, 1270, 1316, 2176	..	E,	III!
29459	24.2	−14 28	7.0	1475, 1337, 1420, 1855	..	E	—
+21° 4555	24.5	+21 45	8.5	1720, 4407, 1270, 1316	..	D. S.	IIIa; IIIa!!
+5° 4790	24.6	+6 9	6.5	1703, 781, 2953, 1615	..	V. S.	IIa.?IIIa; IIa.?IIIa
29469	24.6	−25 38	7	5301, 3720, 5217, 5443	..	E	—
.. ..	24.8	+59 19	..	4885, 4021, 2850, 2952	..	E. S.	III.!!; IIIa.!!
+20° 4939	25.3	+20 31	7.2	4407, 1270, 1316, 2176	..	E	III
+25° 4549	25.4	+25 22	8.3	1270, 1316, 2176, 2232	..	E	III
+23° 4325	25.4	+23 12	4.5	1720, 3053, 3175, 5301	2	E, II or III; D. E. S.	IIIa; III.?; IIIa!
+72° 986	25.7	+72 37	8.8	2278, 2398, 1269, 2322	2?	..	..
+49° 3535	25.8	+49 54	9.4	4885, 4021, 4955, 3995	..	E.	IV.?
+25° 4553	26.7	+25 37	9.0	1270, 1316, 2176, 2232	..	E.	III!
+50° 3352	26.7	+51 10	9.5	4955, 3987, 3995, 4903	..	E.	F
29495	26.9	−45 18	6.0	3443, 3669, 3935, 4482	2?	..	..
29498	27.0	−12 43	7.0	1475, 3929, 1337, 1420	Ma?	..	..
+47° 3436	27.1	+47 14	7.9	2419, 2177, 2215, 5114, 7487	2, Ma,	..	..
+20° 4950	27.2	+20 33	7.5	4407, 1720, 1270, 1316	..	E	III!
+48° 3405	27.9	+48 13	9.0	2419, 4089, 2177, 5114	Ma?	..	..
−12° 6032	28.9	−12 46	9.1	1420, 3929, 1475, 1337	O?	..	..
−14° 6072	29.3	−14 20	8.8	3929, 1337, 1420, 1475	2	..	..
+45° 3584	29.6	+45 25	6.5	1862, 2868, 5114, 2419	..	E	III.?
+1° 4503	29.6	+1 24	7.7	4180, 1703, 1707, 1778, 10117, 12371	Mb, Mb, Mb	..	..
+44° 3861	29.8	+44 39	8.5	2215, 2419, 5114, 2177	Ma	..	..
29571	30.1	−4 25	6.2	2903, 1703, 1477, 4234	..	K	IIIa IIa
29567	30.2	−40 46	7.5	3935, 4234, 3710, 5225	Ma	..	..

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Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Magn.	Plate No.	Class Sp.	A.	Cel.
A. 29533	21 30.4	−77 50	3.8	6695, 5603B, 5721a, 4110B	2	..	..
+17° 4607	30.5	+17 53	9.3	4407B, 1803B, 1720B	..	V.S. IIIa²:IIIb; IIIa²:IIIb	
+5° 4824	31.2	+5 42	8.3	4180a, 781B, 1707B, 1778B	..	V.S. IIIa²; IIIa²	
+31° 4504	32.2	+31 39	7.8	2225, 2256a, 2030B, 1954B	2	E	III!!!
−12° 6048	32.8	−12 29	8.3	3929, 1337B, 1420B, 1475B	Ma	..	..
+52° 2989	33.6	+52 30	9.2	4903, 4625a, 3995B, 3965B	2; ~~Ma~~	..	..
29635	33.8	−58 11	7.5	6825, 4093b, 5278a, 5577a 11544	Ma², Ma	..	..
+48° 3451	34.8	+48 16	7.6	2419a, 5114a, 2419a, 2215a	Ma	E	II or III
29662	35.0	−19 21	7.5	1420, 1337B, 1475B, 1855a	2²	..	..
29654	35.2	−68 31	7	5577a, 5694a, 5685a, 5603B 8651 10096 11771 11132 11930 12071	Ma, Ma, Ma, Ma, Ma, Ma	E	—
+54° 2586	35.6	+54 17	8.2	4903, 4885a, 4021B, 4625a	Ma²	..	..
29691	36.3	−26 19	7.2	5662, 3720a, 5443, 3885B, 8330, 11394 9844	Ma, Ma, Ma, Ma	..	..
+77° 827	36.4	+78 11	var.	4868a, 3127a, 3128a, 3126B	..	D.E.S. IIIb; −; IIIb!	
29695	36.9	−57 47	6.4	4093, 5278a, 3428B, 5277B	2²	..	..
29696	36.9	−57 44	6.8				
+53° 2684	37.3	+53 52	8.6	4625a, 3965B, 4903, 3995B 11500	Mb	E	III!!!
+5° 4850	37.3	+5 14	5.5	Visual 1778B, 781B, 1707B, 1703B 10345 10346	III₂ Ma², Ma², Ma²	D.V.S. IIIa; IIIa!!; −; IIIa²; D IIIa!	
.. ..	37.8	+42 23	..	2177a, 2215a, 2419a, 5114a	..	E	IIIc
29781	38.7	−49 57	6.6	3443, 4482a, 5712a, 5343B	M	..	..
29727	38.7	−63 0	7.0	5694, 5703a, 5577a, 5694a	2	..	..
+70° 1192	39.1	+70 20	7.0	2275a, 2398a, 2322a, 2783a	..	E	OR′
+37° 4407	39.2	+37 33	7.8	2256a, 2225B, 2373a, 2434a 11237 11490	2, ?	D.E.S. IIIb; −; IIIb!	
29744	39.2	−5 11	6.7	1477B, 2903B, 2955B, 12040a	..	K	IIa IIIa
+9° 4891	39.2	+9 25	2.3	1707, 2953B, 1688B, 1707B, 1778B	2	E	—
29749	39.7	−28 35	7	5443, 5662a, 3686B, 3720a	N	..	..
+70° 1193	40.4	+70 51	5.0	1732, 2783a, 2928a, 2322a	Ma	..	..
+44° 3924	40.4	+44 56	9.5	2419a, 2177a, 2215a, 5114a	Mc²	..	
+53° 2692	40.6	+54 8	9.5	4885a, 4021B, 4625a, 3965B	..	E	nebs.? III.?
+53° 2693	40.6	+53 15	9.2	4885a, 4625a, 3965B, 4021B	..	E	III.?

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Ident.	R.A. 1900 h m	Dec. 1900 ° ′	Magn.	Plate Nos.	Class Sp.	A. Cl.
A. 29782	21 41.4	−2 40	6.8	2903, 1703, 747, 1477	Mc, Mc, Mc, Mc	D.E.S. IIIa; –; IIIa''
+25° 4616	41.7	+25 27	8.0	808, 3053, 3175	..	E. III or II; E III?
29815	42.5	−28 40	7.8	6575, 5662, 5443, 3685	Ma	.. ..
29829	43.1	−29 50	8	6575, 3685, 5662, 5443	Ma	.. ..
+60° 2294	44.5	+60 14	6.0	2850, 2519, 1732, 23686	..	E.S. II; D.S. IIIa; IIIa
29868	45.0	−51 3	9.5	6670, 5712, 6343, 4240	N?	.. ..
+0° 4783	45.0	+0 29	9.5	4180, 747, 1707, 1778	..	D.E.S. IIIa; –; IIIa
Approx Pos.	45.5	−34 25	..	6575, 4033, 5444, 6288	Mb	.. ..
+68° 1251	45.7	+68 14	9.5	2519, 2322, 2278, 2348	Mc	.. ..
−1° 4212	46.9	−1 45	8.3	1477, 747, 2903, 12040	..	K IIIa
+74° 938	48.2	+74 31	8.7	4868, 2278, 2398, 2322	Ma	.. ..
+25° 4636	48.6	+25 17	8.5	808, 3175, 3053,	..	E IIIa!!!
+18° 4881	49.5	+19 6	9.0	1803, 2971,	..	V.S. IIIa; IIIa
+17° 4657	49.5	+17 33	7.5	1803, 2971,	..	V.S. IIIa; IIIa
29962	49.5	−66 10	8	6278, 4482, 5712, 5343	Ma?	.. ..
+48° 3536	49.6	+48 53	9.0	4903, 4625, 3965, 2162	Mc?	.. ..
−21° 6120	50.0	−21 36	7.2	4120, 5662, 5676, 1743, 5455	2?, Mb?, Ma, Mb	.. ..
+46° 3481	50.4	+46 32	7.7	2060, 2162, 2060, 5114	Ma	.. ..
30005	51.0	−38 8	7.5	4042, 4033, 5444, 6288	..	E –
+49° 3673	51.6	+50 2	9.1	4625, 3965, 4903, 2162	..	D.E.S. IIIb; –; IIIb
+53° 2740	51.7	+53 42	8.0	4903, 4625, 3965, 4885	Ma	E. II or III
+46° 3497	52.3	+47 0	8.4	2060, 2162, 4625, 3965	O?	.. ..
+17° 4665	52.5	+17 18	8.6	2971, 1803, 767	..	V.S. IIIa; IIIa
+55° 2652	53.2	+55 27	9.0	4885, 4021, 4625, 3965	Mc	.. ..
+78° 768	53.3	+79 5	6.5	3128, 4868, 2322, 29557	..	D.S. IIIa; IIIa
+13° 4816	53.6	+13 34	6.5	1803, 825, 6393, 762	Q?	.. ..
30063	53.7	−48 8	8	3936, 5712, 5343, 5490	N?, Ma,	.. ..
+62° 2007	53.8	+63 9	5.7	3139, 1732, 2850, 2519	Q	D.E.S. IIIa; –; IIIa!
+65° 1691	54.7	+65 41	6.5	2850, 2519, 1732, 5730	..	E OR?

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Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Mag.	Plate Nos.	Class Sp.	A.	cl.
A. 30099	21 55.0	− 37 2	6.9	4042, 4033, 5288, 584	Ma	..	..
+23° 4442	55.2	+ 23 27	7.5	2971, 2767, 797, 1825	Mc	E.S. III.!!!; IIIa!!!	
30105	55.5	− 57 11	5.2	6676, 5278, 5589, 19407	2?	..	..
+74° 946	56.9	+ 74 31	6.4	2928, 3128, 2783, 2964	2	..	..
+61° 2233	57.6	+ 61 60	7.0	5730, 4500, 2519, 5369	A2	..	..
+36° 4740	57.6	+ 36 27	8.3	2373, 2434, 2333, 1954	Ma	..	..
+37° 4471	57.7	+ 37 17	8.5	2373, 2434, 2333, 1421	Ma?	..	..
+ 4° 4791	58.5	+ 4 59	7.3	1721, 769, 756, 2102, 10345	.. Ma	V.S. IIIa; IIIa	
30178	58.6	− 30 24	7.0	5663, 3711, 3700, 584	..	E.	
30181	58.8	− 36 11	8	6575, 4033, 8700, 5586	Ma, Mb, Mb, Mb,	..	..
+27° 4243	59.4	+ 27 52	7.7	808, 1805, 1825, 797	..	D.E.S. IIIa; − IIIa!!	
30209	22 0.1	− 40 2	4.7	4033, 4042, 5700, 5841	M	..	..
+ 4° 4800	0.7	+ 4 34	5.0	1707, 1778, 1721, 10174	..	V.S. IIIa!; IIIa!	
+74° 951	1.2	+ 74 52	8.0	2783, 2322, 2278, 2398	Ma?	..	..
+73° 957	1.4	+ 73 20	7.8	3128, 2322, 2278, 2398	Mb	..	..
+45° 3793	1.3	+ 45 54	9.5	2162, 3695, 1862, 1909	O2?	..	..
+62° 2029	2.0	+ 62 18	6.0	2379, 3189, 4500, 5730	..	E	III!
+28° 4289	2.0	+ 28 43	8.6	808, 1805, 1825,	..	E	III!!
+62° 2030	2.1	+ 62 35	9.0	2519, 3189, 4500, 5730	O2?	..	..
30258	2.5	− 43 32	7.0	5713, 3936, 5342, 4042	Ma?	..	..
30272	3.1	− 32 59	8.5	5663, 3711, 4033, 3700	8364, 8394, 9514, 8503, 11756, 12032, 18554 Mb, Ma, Ma Mb, Ma, Mb	..	..
+26° 4352	3.5	+ 26 31	8.6	1805, 808, 1825	..	E	III!
+11° 4738	3.9	+ 12 3	9.2	6393, 3079, 1803, 18251	..	E	−
Zc. 72	4.2	− 68 26	9½	6773, 4810, 5577, 5694	A2	..	..
−2° 5705	4.4	− 2 31	8.7	1979, 1477, 1856, 747	12040 Ma	E.S. III.!; IIIa!	
Approx. Pos.	4.6	+ 34 0	..	2373, 2434, 2333, 1908	O2?	..	..
+47° 3711	5.1	+ 48 2	7.0	3695, 3242, 3264, 2162	Ma	..	..
30313	5.2	− 11 19	6.8	2862, 2904, 1855, 12254	Ma	..	..
+10° 4701	5.7	+ 11 8	6.0	3079, 6393, 1803, 18251	..	V.S. IIIa; IIIa	

* For additional stars in 21h see p. 72.

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Plates 6773, Defect?

Measures on Plates 2712. Not on Dec Chart.

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Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	Cl.
A 30332	22h 6.3m	−56° 27′	7.5	5278, 5712, 5602, 5601 (6676, 4454, 9837)	Ma, Ma, Ma, Ma, Mb	..	..
+72° 1017	6.5	+72 27	7.2	2398, 2278, 2322, 4868	Ma	..	..
+37 4506	7.4	+37 55	7.3	2434, 2373, 2333, 1421	Ma	..	..
−0° 4322	8.2	−0 15	7.4	1979, 747, 1477, 1856	..	V.S.	IIIa; IIIa
+33° 4456	8.4	+34 7	5.8	2373, 1908, 1894, 808	..	C	–
−5° 5738	8.6	−4 57	7.3	1477, 1856, 1979, 747	..	C.S.	–; IIa(IIIa)
+56 2732	8.9	+56 47	9.5	4687, 4676, 4698, 4521	..	C.	F
+38° 4711	9.5	+39 13	4.9	1908, 1894, 1421, 3802	..	C	–
+48° 3655	10.6	+48 19	8.0	2060, 2162, 3695, 2200	O?	..	..
30430	11.5	−8 17	4.3	2882, 1856, 1477, 12041	2	..	..
Zc. 815	11.5	−34 18	8.5	6973, 5836, 5762, 5732	Ma?	..	..
+37° 4526	11.6	+37 15	4.8	1908, 1894, 2373, 2434	..	C	III
+12° 4793	11.8	+12 27	7.5	6393, 3079, 18257, 26020	..	V.S.	IIa(IIa); IIa IIa
+43° 4166	11.9	+43 48	9.1	3802, 1421, 1617, 1527	Ma	..	..
+4° 4887	12.5	+4 39	7.8	1721, 747, 2102, 10174	..	C.S.	B III?; IIIa?
30459	13.4	−40 48	8.2	6573, 4042, 5713, 3936	Ma?	..	..
+23° 4507	13.5	+23 36	8.8	1805, 2971, 767, 27807	..	C.	III!!!
30468	14.0	−58 1	6.8	5723, 5278, 5601, 5602	Ma?	..	..
30481	14.3	−44 0	7.8	3936, 5713, 4042, 20549	Ma?	..	..
+45° 3881	15.0	+46 1	9.4	2162, 3695, 2200, 3242	O	..	..
+57° 2505	16.3	+57 24	9.0	4521, 4676, 4687, 4500	..	C	III? B
+26° 4410	16.4	+26 26	6.5	1805, 808	..	C.	III!!
+52° 3186	17.0	+52 55	9.5	4676, 4521, 4687, 4012	Mc	..	..
30520	17.1	−75 31	6.5	5721, 4110, 11987, 17046	..	C	–
+38° 4482	17.0	+38 24	9.1	2373, 2434, 2333, 2290	Mc	..	..
+40° 4791	17.1	+40 46	8.8	3802, 1421, 3695, 1617	Ma?	..	..
+44° 4106	17.3	+45 8	8.9	3802, 2162, 3695, 2200	Mb	..	..
+16° 4724	18.7	+17 9	7.5	2971, 1753, 1779, 19798	..	V.S.	IIa?; IIa?; IIa?; IIIa
+39° 4822	19.2	+40 5	8.7	3802, 1421, 1617, 3695	Ma	..	..

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Identt.	R.A. 1900 h m	Dec. 1900 ° ′	Magn.	Plate Nos.	Clears Sp.	A. bl.
BD. +30° 4703	22 19.3	+30 46	6.6	B a a 808, 1908, 1894,	..	E III.''
+51° 3358	19.7	+51 44	4.7	a B a a 3242, 3264, 1696 7535	..	E —
+45° 3916	19.7	+45 41	9.3	a a B B 3802, 2162, 3695, 2200	Ma	.. ..
+15° 4642	19.7	+15 38	9.0	a c c a 2971, 1753, 1779, 1979	..	V.S. IIIa²:IIIb; IIIa²:IIIb
+48° 3711	20.1	+48 19	7.8	a a B a 2060, 2162, 2200, 3242	O²	.. ..
+0° 4872	20.2	+0 53	4.5	B B c a 747, 1721, 756, 10174	..	E —
+57° 2524	21.2	+57 20	9.4	a a a B a 4521, 4676, 4687, 4012, 4500	..	E. III² net.
.. ..	21.8	−30 44	..	B a a 6570, 3711, 3721, 5836	Md²	.. ..
30647	22.3	−44 0	4.2	a B a 3444, 5713, 3936, 4042	M²	.. ..
+43° 4209	24.0	+43 16	9.0	a B B 3802, 1421, 3695, 2200	Ma	.. ..
+8° 4874	24.1	+8 38	5.8	B a B a 1721, 3079, 3241, 1497	..	V.S. IIIa; IIIa
+39° 4857	24.7	+39 48	8.8	a a a 3202, 1421, 3802, 1617	Md	.. ..
+57° 2548	25.4	+57 54	var.	a a a B 4521, 4676, 4500, 4012	..	E —
+46° 3719	25.4	+47 11	4.8	a a B a 1909, 3242, 3264, 2851	..	E —
+27° 4333	26.1	+28 2	9.0	B B a 1805, 3276, 3288	..	E III.'''
30709	26.2	−62 29	5.5	4423 5485 5578 5601 5702 5723 5748 5781 6804 5453 B 5278 a 7959 6746 7960	M, Mb, Mb, Ma, Ma, Ma, Mb, Mb, Ma, Ma, Ma	M&
+56° 2793	26.4	+56 29	8.4	a B a a 4521, 4013, 4698, 4676	..	E OR
30727	27.1	−58 43	8.2	a a B 5723, 5602, 5601, 5453	Ma²	.. ..
+15° 4665	27.3	+15 18	8.0	a B c c 2971, 3081, 1753, 1779	..	V.S. IIIa²; IIIa²
+61° 2309	28.4	+61 26	8.7	a a a 5463, 4500, 5730, 4847	2²	.. ..
+41° 4535	28.5	+41 38	9.2	a a a 2200, 1421, 3802, 1617	Mc	.. ..
+0° 4894	28.6	+0 41	8.7	B a B 1979, 2957, 1721, 10157	Ma	E III.'''
+45° 3979	28.7	+45 34	8.0	a B B 3802, 2162, 3695, 2200	Mb	.. ..
+40° 4850	29.2	+40 18	6.7	a a a 1894, 3202, 3275, 3285	Ma²	.. ..
+42° 4441	29.3	+42 58	7.8	a a a 2200, 1421, 3802, 1617	Ma	E. II or III
.. ..	29.4	+0 51	..	B a B c 1979, 2957, 1721, 1980	..	E —
−0° 4383	29.5	+0 6	7.5	B a B c 1979, 2957, 1721, 1980	..	V.S. IIIa; IIIa
+41° 4545	29.8	+42 7	9.3	a a a 2200, 1421, 3802, 1617	2²	.. ..
30798	30.2	−28 59	8.8	a B a 4034, 3721, 3711, 4481	2	.. ..

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Plate 6570, Defect ?

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Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	bl.
BD. +74 971	22h 30m.3	+74 51	9.1	4868, 3128a, 2928a, 2964B	2?	..	..
+57° 2562	30.8	+57 39	7.5	4500a, 5730a, 4521a, 4698a	..	E	OR^2
Approx. Po.	31.5	+42 52	..	3802a, 1421a, 1617a, 3695B	Ma	..	..
30822	31.5	−26 34	8.2	6570a, 4481a, 4034a, 3721a	Ma?	..	..
+12° 4850	31.8	+12 39	7.2	6332B, 6393B, 5281a, 3079a	Ma?	V.S.	IIIa; IIIa
+11° 4838	32.1	+12 4	6.8	6780B, 6393B, 5281a, 3079a	Ma?	..	..
+42° 4453	32.4	+43 2	8.5	3802B, 3695B, 1421a, 1617a	Ma	..	..
+57° 2568	32.6	+57 55	7.3	4521a, 4012B, 4698a, 4676a	..	E	III
30842	32.6	−4 44	5.2	2876, 1979B, 2957a, 1856a	Ma?	..	..
+42° 4456	32.7	+43 3	8.1	2200a, 3802a, 1421a, 1617a	Ma	..	..
30849	32.8	−27 23	8.5	4034a, 4481a, 4034a, 3721a	O.	..	..
30858	33.3	−28 47	8.8	4034a, 4481a, 4034a, 3721a	Mb?2,	..	..
+8° 4906	33.4	+8 44	7.3	5281a, 1721B, 6393B, 3241B	..	V.S.	IIIa; IIIa
.. ..	33.4	−28 4	..	4034, 3721a, 4481a, 3711B	O?	..	..
+40° 4871	34.8	+40 23	8.6	1617, 1421a, 3802a, 1491B	Ma?	..	..
Approx. Po.	35.	−80 48	..	6783, 5721a, 4110B, 5332c	Ma?	..	..
Zb. 1081	35.4	−28 2	8.0	4034, 3721a, 4481a, 3711B	N?	..	..
+25° 4787	35.9	+26 14	8.0	1805B, 3288a, 3276B, 3206c	..	E.	III !!!
+43° 4266	36.1	+43 46	4.8	1909a, 1895a, 2851a, 3202a	..	E	–
+47° 3884	36.6	+47 54	8.8	2200B, 3695B, 4168B, 2851a	N	..	..
+45° 4014	36.6	+45 41	8.7	3802B, 2200B, 3695B, 4168B	Ma	..	..
✓ 30920	36.9	−5 37	6.7	2876, 1856a, 3033B, 10118, 10166, 11534, 12064, 14124	Mb, Mb, Mb, Mb, Mb, Ma, E. K., Kr.	–; IIIa', III	
+13° 4974	37.0	+14 0	6.2	6332, 6780, 3079a, 3241B	2, Ma	..	..
✓ +5° 5059	37.8	+6 8	8.4	5281a, 3241B, 2817c, 2250a.	9781, 14423, 14385 Ma, Ma, Ma	V.S.	IIIa'; IIIa'
+4° 4896	37.9	+4 26	7.0	2957a, 2817c, 1845B, 1884B	..	V.S.	IIIa; IIIa
30954	38.5	−27 43	8.5	4034a, 3721a, 4481a, 5589a.	Mb	..	..
30962	39.1	−41 17	7.0	4111a, 5620B, 5749c, 20531a	..	E	–
+33° 4573	39.3	+33 24	8.5	2290a, 1894a, 3288a, 3276B	..	E	III
+26° 4489	39.4	+27 2	8.2	3288a, 3276B, 3092a, 1863B	..	E	III !!

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Look up on Lc. Plate.

Is this Z.C. 982 May. 8. 19m Pos. $22^h\ 33.^m4 - 28^\circ$?

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	Ident.	R.A. 1900 h m	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	Cl.
√	BD. -16°6149	22 40.1	-16° 6'	6.9	2972, 1744a, 1794B, 5677a	10402 9774 14210 Ma2, Ma2, Ma, Ma	..	..
	30991	40.2	-27 30	8.2	4034, 3721a, 5589a, 5842a	Md2	..	..
√	30994	40.6	-51 34	7.5	6504, 5684a, 5664a, 3937B	9701 9790 12363 14412 Ma, Ma, Ma, Ma, Ma	..	..
	+61° 2338	40.9	+61 40	8.0	2485a, 4841, ~~2481~~ 5274, 5319B	Ma	..	..
	+46° 3815	40.9	+46 41	7.7	2200, 3802a, 4168, 2851a	Ma, Mb	..	..
√	31005	40.9	-11 41	7.0	6331, 2876B, 1744a, 1794B	10247 Ma, Ma	..	..
	31024	41.7	-34 41	6.5	6689, 5840a, 5604B, 4304B	Ma2	..	..
	+14° 4868	42.1	+14 21	8.3	5281a, 1846B, 1886B, 2250a	..	V.S. IIIa; IIIa	
	31041	42.1	-20 8	5.4	1497, 2940a, 5677a, 3061B	Ma2	..	..
	31044	42.5	-51 50	3.5	3937, 5584a, 5664a, 4241c	A2	..	..
	+0° 4926	43.0	+0 49	8.5	2957a, 1515B, 1941B, 2530B	..	E —	
	+9° 5109	43.9	+10 0	8.2	5281a, 2250a, 2182B, 2015B	..	V.S. IIIa; IIIa	
	+26° 4507	44.3	+26 50	8.8	3288a, 3276B, 3092a, 1863B	..	E. III!!!	
	31082	44.3	-14 7	4.2	Visual 2972, 6331a, 1744B, 2876	III2 2:, Ma	D.E.S. IIIa; —; IIIa!	
	31078	44.4	-63 21	7.0	5723, 5748a, 5601a, 5602a	Ma2	..	..
	+54° 2865	44.5	+54 36	8.5	4521a, 4013B, 4698a, 4676a	..	E.S. IV2:; IIIb	
	+40° 4920	45.4	+40 30	9.1	1617a, 1491B, 1527B, 3202a	..	E.S. III!!; IIIa!!!	
	+4° 4914	46.3	+4 15	8.7	4826B, 1845B, 1884B, 2420B	..	V.S. IIIa2; IIIa2	
	+47° 3946	47.1	+47 51	8.9	2200B, 4168, 1895a, 2851a	Ma	..	..
	+26° 4519	47.1	+26 30	9.5	3092a, 1863B, 3288a, 3276B	..	E. III2 B.	
	+42° 4521	47.5	+42 47	5.0	1895, 1491, 3202a, 3275a	Ma, 2 2:	E, Ka. IIIa, IIIa	
	+42° 4527	49.1	+43 7	8.5	2200, 1617a, 1527B, 3802a	Ma	..	..
	+39° 4964	49.5	+39 50	5.8	1527, 3202a, 3275a, 3285a	2e	..	..
√	+16° 4833	49.7	+16 24	7.0	6476, 1846B, 3081B, 1886B	8589 9684 Mb, Mb, Mb,	V.S. IIIa!; IIIa!	
√	31171	49.9	-30 9	8	3721a, 4034a, 5589a, 5842a	10398 10399 8612 12090 12246 Mc, Mc, Mc, Mc5d, Mc,	E —	
	+42° 4532	50.1	+42 32	9.4	2200a, 1617B, 1527B, 1491B	Md2	..	..
	+18° 5067	50.1	+19 1	7.3	3081B, 1846B, 1886B, 1798a	..	V.S. IIIa; IIIa	
	+8° 4960	50.2	+8 56	8.0	5281a, 2250a, 2182B, 2015B	..	V.S. IIa2: IIIa; IIa2: IIIa	
	+42° 4533	50.3	+42 50	9.4	2200a, 1617B, 1527B, 1491B	Md2	..	..

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	Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	class Sp.	A.	bl.
✓	A. 31191	22h 51.0m	−57° 56′	7.2	5664, 5602a, 5601a, 5723a	Mc, Mc, Mosd*, Mc	..	..
	+35 4917	51.1	+35 50	6.0	2100a, 2290a, 3202a, 3275a	..	E	cont.
	~~+32° 4550~~	~~51.2~~	~~+33 8~~	~~9.4~~	..	..	~~S IIIa!!~~	
✓	31207	51.7	−20 53	var.	1497, 1626B, 5589a, 5842a	2: Md, Md, Md,	E	—
	+40° 4949	51.9	+41 4	6.2	3202a, 3275a, 3285a, 1895a	B	E	—
	+13° 5024	52.0	+13 53	7.5	4169B, 4971B, 2250a, 2182B	..	V.S. IIIa; IIIa!	
	+48° 3887	52.1	+49 12	4.6	2851a, 1895a, 854B, 83B	..	E	—
✓	31208	52.2	−72 22	7.8	6506, 5621a, 5748a, 5578B	Ma, Ma, Ma	..	..
	+32° 4552	53.2	+33 11	8.0	2290a, 2259a, 2226B, 3288a	..	E	III!! III; IIIa!!
	+20° 5252	53.2	+20 59	7.6	6476, 3081B, 2864B, 3092a	Ma	..	..
	+84° 516	53.4	+84 30	8.0	2841, 133B, 92B, 2804B	Mb	..	..
	31257	54.7	−25 42	6.1	4034a, 5589a, 5842a, 5837a	..	E	—
	31267	55.0	−26 10	6.6	4034a, 5589a, 5842a, 5837a	M	..	..
✓	+0° 4955	56.2	+0 32	8.5	1515B, 1941B, 2506B, 1834B	Ma	V.E.S. IIIa; IIIa	
✓	+31° 4826	56.8	+32 4	7.4	2290a, 2259a, 3288a, 3276B	Mb	E.S. III!!; IIIa!!	
	+19° 5048	57.0	+19 17	7.1	3081B, 2869B, 3054B, 1886B	..	V.S. IIa2; IIIa; IIa2 IIIa	
	31304	57.0	−36 57	6.6	6642, 5604B, 4111a, 4616a	2	..	..
	+56° 2927	57.3	+56 34	6.1	2435, 1838B, 86B, 2979a	Ma	..	..
	+79° 759	57.4	+79 48	7.5	2804a, 2841a, 133B, 92B	Ma	..	..
	+43° 4875	57.6	+44 2	6.2	1895a, 2818a, 2798B, 4168B		E	—
✓	31331	58.1	−41 21	6.9	6642, 4111a, 4616a, 5620B	2, Ma, Ma, Ma, Ma	..	..
	+1° 4675	58.7	+2 4	8.5	2506B, 1834B, 2530B, 2473B	Ma	..	..
*	76. 1690	58.8	−33 35	8	6498, 5445B, 4281B, 3721a	2?	..	..
	+27° 4487	23h 0.3m	+27 40	8.3	3092a, 1863B, 3288a, 3276B	..	E	III
✓	31380	1.2	−44 4	4.2	6649, 5620B, 4111a, 4616a	2?, 2	..	..
	+18° 5105	1.3	+18 27	7.4	4169B, 4971B, 2869B, 3054B	..	V.S. IIa?; IIIa; IIa?; IIIa	
	+41° 4676	1.5	+41 16	7.6	1491, 1527B, 1617a, 1665B	Ma?	..	..
✓	+9° 5158	1.7	+10 1	var.	4807, 5262a, 4628B, 2250a	?, ?, N.S., Md	..	..
	+4° 4959	1.8	+4 31	7.8	4826, 5190B, 1884B, 2530B	Ma	..	..

* For additional class in 22h. see p. 74.

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* var ?. * var ? (no evidence of variation; 3872, 4017, 4084, 4367, 6353, 6356, 7960.
Plate 7960 var ? The following chart plates (B Series) which are all there are of this region as far as now examined, show

var. var. var. S. Aquarii.

IIIa

Plate 6642, Br. line between F + G. On plate B 4111 Nos. 1398 + 1410 are shown to be Class I with no evidence of peculiarity. The bright lines are probably due to the smaller dispersion used in B 6642.

IIIa

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Ident.	RA. 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A. bl.
BD.+8°4997	23h 2.0m	+8° 5′	5.2	B 3241, B 1845, B 1884, a 2250	1928 L	D.V.E.S. IIIa; IIIa!; –; IIIa! D IIIa!
+48 3952	5.7	+48 28	7.0	a 3157, a 3141, a 1895, a 2857	E	–
✓ +4° 4975	6.2	+ 4 28	7.1	1854 1884 1941 2420 2473 2506 4826 5190 4950 a 2957 Mb 1653 Mc 11455 Mb 11530 Ma 11535 Mb Mc Ma Mb	D.V.E.S. IIIa; IIIa!!; IIIa!! D IIIa!!	
+52 3390	7.7	+52 17	8.2	a 4825, a 3157, a 3141, B 3140 ..	E, S. III!!!; IIIa!!!	
✓ Zb. 164	8.3	–78 26	9	Bc 6783, a 5232, c 5621, 5579 2075 Ma, Ma	.. ..	
-14° 6424	8.6	– 13 56	6.8	B 4009, a 1744, B 2876, B 3063 ..	E –	
+10° 4904	9.0	+10 26	8.8	2250, a 5262, B 1982, B 2015 Ma	.. ..	
+5° 5750	10.4	+ 5 39	7.5	B 4826, B 4628, B 5190, B 1884 ..	V.S. IIa?; IIIa; IIa?; IIIa	
31545	10.6	– 9 38	4.1	B 3063, B 2033, a 3064, B 2008 ..	E –	
✓ 31550	11.1	–27 38	7.8	a 6481, a 5589, a 5842, a 5837 9193, 10406 Ma?, Ma, Ma?	.. ..	
31558	11.3	– 41 45	6.7	a 4616, B 4111, B 5620, B 4043 2?	.. ..	
+13° 5084	11.8	+13 48	9.0	a 4807, a 5262, a 2250, B 4622 Ma	.. ..	
+26° 4596	13.4	+27 3	7.3	a 2813, a 3092, B 1863, B 3087 2	.. ..	
31605	13.8	– 14 0	5.5	a 1744, B 2876, B 3063, B 1794 ..	E –	
+22° 4808	15.2	+22 32	6.3	a 3092, B 1863, B 2869, B 3054 ..	E.S. III; IIIa	
+61° 2427	15.8	+61 26	6.5	a 4825, a 2979, a 3176, a 2435 Ma?	.. ..	
-14° 6453	16.1	– 13 49	7.3	B 4009, B 1744, B 3063, a 2057 ..	E.K –; IIa IIIa	
+61° 2428	16.2	+61 40	6.0	a 4825, a 2979, a 3176, a 2435 2?	.. ..	
+19° 5091	16.9	+20 6	7.5	B 2869, B 3054, a 3092, B 1863 ..	V.S. IIIa; IIIa	
+48° 4013	17.4	+48 15	7.5	a 3141, B 3157, a 3140, B 1895, B 2421 Ma	.. ..	
31676	17.7	– 20 39	3.9	a 5587, a 3062, a 5714, a 5839 2	.. ..	
+11° 4993	18.1	+ 11 46	5.3	B 2054, B 1846, a 1886, 2250 Ma?	.. ..	
✓ 31690	18.3	– 31 40	7.2	B 6481, B 5608, B 4281, B 5445 10406, 12992 Ma?, Ma, Ma,	.. ..	
31694	18.4	– 0 16	6.4	a 3071, a 3064, B 2008, B 2530 ..	V.S. IIIa(IIa); IIIa(IIa)	
+33° 4701	18.6	+33 46	8.4	2226, a 2259, a 2290, a 2100 Ma?	.. ..	
✓ +39° 5073	18.7	+39 41	8.5	1813, a 1421, B 1665, a 2259 7640 Ma?, Ma	E.S. III; IIIa	
+59° 2712	19.2	+59 55	8.7	2435, a 4825, B 4023, a 2979 ..	E. {B. III?}	
✓ +40° 5065	19.3	+41 5	6.5	1813, a 2818, B 2798, a 1895 7640 Mb, Mb	D.E.S. IIIa; –; IIIa	
+58° 2586	19.4	+58 38	9.0	a 2435, a 4825, B 4023, a 2979 ..	E.S. IV?; III?	

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Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A. Cl.
BD. +60° 2532	28h 19.8m	+61° 3′	8.4	a 2435, a 4825, B 4023, a 2979	..	E. S. III:??; IIIa??
✓ 31724	20.1	− 30 34	7.5	6554, B 5608, B 5445, B 4281, 10405	Ma, Ma?	.. ..
+60° 2535	20.3	+ 61 5	mb.	a 2435, a 4825, B 4023, a 2979	..	E III?
31734	20.8	− 21 12	4.4	5587, a 3062, a 5714, a 5839	2	.. ..
+52° 3440	21.0	+52 27	7.0	3157, B 2421, a 3141, B 2980	2?	S. IIIa!
+52° 3446	21.7	37	7.8	a 3157, a 3141, B 2421, B 2980	..	E III! IIIa!
+48° 4051	22.2	+48 58	9.3	B 2421, a 1895, a 1920, a 3141	..	E OR
+5° 5173	22.9	+ 5 50	4.7	3071, B 2047, a 1988, a 4736	2	.. ..
+0° 5004	24.4	+ 0 32	9.4	B 224, B 2612, a 3071, B 4161	..	V. E. S. IIIa; −; IIIa
31791	24.4	− 46 27	8	4048, a 4483, B 5583, a 10407	2	.. ..
+50° 4056	24.8	+51 8	8.0	8141, B 2421, a 2164, a 3157	Ma	.. ..
✓ 31793	24.9	− 81 23	7.8	a 6694, 5621, 6770, 12075, 14357	Ma, Ma, Ma	.. ..
+0° 5009	25.6	+ 0 19	7.7	B 2612, B 224, a 3071, B 4161	..	E −
✓ 31823	26.2	− 74 45	7.8	a 6770, 5621, 6694, 11705, 12075, 14357	Ma, Ma, Ma, Ma	.. ..
+51° 8630	26.6	+51 52	7.3	B 2421, a 2164, a 3141, B 3157	..	E. S. III:!; IIIa:!
+30° 4969	27.0	+30 41	8.9	a 2259, B 2226, B 3087, a 23138	..	E. III
+45° 4252	27.1	+45 21	7.0	a 1920, a 1895, a 3141, a 3157	..	E. III!
+62° 2242	27.4	+62 51	8.9	4812, a 2435, a 4940, a 2979	2?	.. ..
+23° 4759	27.5	+23 18	6.8	a 3092, B 1863, B 2869, B 3054	..	D. E. S. IIIa; −; IIIa?
+45° 4259	28.2	+45 35	7.0	a 1920, a 8141, a 3157, B 3199	..	E III!
−0° 4532	30.0	− 0 21	9.0	3064, B 2612, B 224, a 3071	Ma?	.. ..
+7° 5059	30.4	+ 7 58	6.5	a 2047, B 1988, B 4161, B 1634	..	V. E. S. IIIa; −; IIIa
+34° 4964	31.9	+34 42	8.3	2259, B 2226, a 2109, B 3087	Ma	.. ..
+45° 4283	32.6	+45 56	8.5	a 1920, a 1895, a 3141, B 3199	..	E −
−6° 6248	32.7	− 6 32	8.2	3064, C 1627, B 2008, B 3063	Ma	.. ..
+76° 928	35.2	+77 4	8.5	a 2804, B 2841, B 2864	2	.. ..
✓ 32013	35.9	− 24 43	7.2	6571, a 5605, a 5839, a 5837, 10405	Ma?, Ma	.. ..
32019	36.4	− 18 35	5.8	Visual, a 3062, a 5714, a 2007	Bands!	.. ..
+9° 5268	38.3	+ 9 46	5.0	a 2047, B 1988, B 2054, B 1872	..	D. V. E. S. IIIa; IIIa:; −; IIIa:; D IIIa

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Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	Cl.
BD.-20°6636	2h 38.6m	-20° 19'	7.8	6790, 3062a, 5714a, 5587B, 10404, 12841, 14430	Ma, Ma, Ma, Ma	..	..
32063	38.5	-46 1	7.1	4043, 4483a, 5583B, 5617B, 10279	Mb, Ma?	..	..
32068	38.7	-15 51	var.	1422B, 1433B, 2007a, 5714a, 10364, 10422, 14211, 14430	Md, Md?, Md, Md	D. E. S. IIIa; IIIa!	
+28°4627	39.0	+28 49	5.2	3087B, 3265B, 1873c, 23138a	..	E. II?	
+45°4317	39.7	+45 43	7.5	1920a, 2164a, 2421B, 3141a	..	E III!!!	
+55°3011	40.0	+55 55	8.6	2979a, 4812a, 3176a, 4825a, 86B	..	E III!	
+19°5147	40.4	+19 52	6.2	3207B, 3054B, 2869B, 1872B	Ma?	..	..
32121	41.5	-56 22	7.2	5618a, 5581a, 4094B, 8323, 10408, 10432	Ma, Ma, Ma	E	–
32126	41.8	-71 52	7	6506, 5621a, 12074a, 19968a	Ma?	..	..
+27°4619	41.9	+27 52	7.0	3087B, 3265B, 1873a	..	E. S. III!!!; IIIa!!!	
+7°5086	43.2	+7 38	8.2	5302B, 5481B, 2047a, 1988B	..	V. S. IIa?:IIIa; IIa?:IIIa	
+44°4498	44.0	+44 38	9.5	1920a, 2818a, 1813B, 1665B	..	E	–
+5°5223	44.0	+5 50	8.7	5431a, 4736a, 1634B, 5302B, 10363, 12340	2?, IVc5d, 2!!	..	..
32185	45.1	-69 39	8	6696, 5621a, 5232c, 5581a, 11714, 11715	Ma, Ma, Ma	..	..
32198	45.7	-49 13	6.9	4043, 5617B, 5583B, 4483a	Ma?	..	..
+48°4170	46.2	+49 14	9.2	1920, 2164a, 2421B, 6732a	Mb? c?	..	..
+8°5127	46.3	+8 45	6.5	2047a, 1988B, 3098c, 9912, 10374	Mb, Ma?	V. S. IIIa!; IIIa!	
+2°4725	46.9	+2 23	6.5	3071a, 224B, 2047a, 4736a;	..	V. S. IIIa; IIIa	
-16°6879	47.1	-16 25	9.1	6790, 1422B, 1433B, 5714a	Ma	..	..
+20°5386	47.3	+21 7	5.8	3082, 2869B, 3054B, 1872B	Ma?	E	III or II
+0°5065	47.4	+0 31	9.2	224B, 2612B, 4736a, 5431B	..	V. S. IIIa?; –; IIIa?	
+74°1047	47.5	+74 59	6.3	2864B, 2841a, 2804B,	..	E	–
-17°6836	47.5	-16 55	7.3	6790, 1422B, 1433B, 2007a, 8654, 10364, 10432, 12841	Ma, Ma, Ma, Ma	Mb ..	..
Z.C. 1267	47.8	-28 55	8.5	6554, 5605a, 5608B, 10204a	Ma	..	..
+56°3111	49.4	+56 57	5.0	2979a, 3176a, 86B, 13696a	..	E	–
+7°5097	49.9	+7 50	8.1	1634B, 2047a, 1988B, 10374a	..	V. S. IIIa; IIIa	
+2°4732	50.9	+2 59	8.5	3282, 224B, 2612B, 4736a	Md	..	..
+21°4999	51.6	+22 5	6.0	2869B, 3054B, 1873B, 19059a	..	E. IIIa or II E –	
+31°5003	51.9	+31 46	8.5	3265B, 2259a, 2226B	..	E	–

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Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	bl.
BD. -13 6490	23 51.9	-13 31	8.3	6790, 1422B, 1433B, 2007a	Ma	..	..
32304	52.0	-27 11	6.4	5605a, 5608B, 10424a, 14688a	..	E	—
.. ..	52.3	-65 56	..	6775, 3621a, 5581a, 4094B	Md	..	..
+31° 5008	53.1	+31 43	8.8	3265B, 2259a, 2226B	..	E	III
.. ..	53.9	+62 19	..	Visual, 4812a, 4940a, 2979a	Sp. not Rec.	E	— ~~III~~
32344	54.6	-25 12	7.5	5605a, 5714a, 5608B, 3062a	..	E	—
+10° 5018	54.7	+11 8	7.3	1872B, 2047a, 1634B	..	V.S. IIIa; IIIa	
Same star? +19° 5184	55.0	+19 41	9.1	1872B, 1873c, 3054B, 3207B	..	E. III!!!	
+19° 5185	55.0	+19 30	9.1	1872B, 1873c, 3054B, 3207B	..	S. IIIa!!!	
+12° 5055	55.1	+12 55	8.3	2047a, 1988B, 1634B, 1872B	..	V.S. IIIa?; IIIa?	
32353	55.1	-0 55	7.4	224B, 2612B, 3064a, 2008B	..	V.S. IIa?; IIIa; IIa?; IIIa	
+59° 2806	55.3	+59 48	9.0	4812a, 4940a, 2979a, 3176a	Ma?	..	..
+0° 5080	55.4	+0 30	8.8	224B, 2612B, 4736a, 5431B	..	V.E.S. IIIa?; —; IIIa?	
✓ 32372	56.2	-50 54	5.6	✓5617, (4483), 5618a, 5581a	✓Ma, (M?)	..	..
32376	56.4	-77 37	5.4	6783, 5232c, 5721a, 5621a		..	..
↓ 32383	56.8	-6 35	4.4	2008 2893 2927 2958 3064 3966 4134 2248 2612B 297 3B 3B 1830 Master	Ma Mb? Ma Mb Mb Ma Ma Ma Ma Md	K.S. IIIa; IIIa!; IIIa!!	
+7° 5120	57.4	+7 50	8.5	1634B, 5431B, 5302B, 2047a, 1610a	..	V.S. IIa?; IIIa; IIa?; IIIa	
✓ +64° 1893	59.1	+64 36	6.9	3073, 4812a, 1795a, 4940a, 7713	Ma, Mb, Ma, Ma	..	..
+42° 4823	59.2	+43 3	8.6	1814B, 1822B, 2164a, 1754a	..	E.S. IV.; IIIb!	
32413	59.2	-17 5	5.7	2007, 1857B, 5611a, 2905B	Ma?	..	..
32417	59.4	-11 4	5.3	2893, 2958B, 2007a, 1857B	Ma?	..	..
.. ..	59.6	+68 7	..	4940a, 5015B, 3073a, 7505a	..	E	net? —

For additional stars in 23h see p. 76.

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IIa

?

Ia

7032, 7690 8222 10248

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0h.

Additional Red Stars.

Identn	R.A.	Dec.	Magn.	Plate Nos.	Class Sp.	A.	Cl.
Z.6.23 1632	0h 0.9m	−39° 42′	8½	6799, B 4112, B 4615, B 4653,	Ma	..	..
" 0h 96	47	−64 9	8	6775, a 4487, a 5622, 11550 11715 11776	Ma, Ma, Ma, Ma	..	..
+33° 117	46.5	+33 21	7.0	7553, a 3289, a 1848, a 4674	Ma	..	..
+36° 145	47.4	+36 24	8.6	7581, a 4674, a 3251, a 1848	Mb	E	III or II
+36° 170	53.7	+36 18	8.5	7548, a 3266, a 3257, a 4674,	Ma	..	..
+38° 162	54.0	+39 8	8.2	7581, a 3266, a 3251, a 4674	Mb	..	..
+39° 2	2.4	+39 31	7.2	7669, a 1754, B 3099, B 1814, B 2048	Ma	..	..
+51° 6	4.2	+51 27	9.0	7415 a 3257, a 2543, a 2940, a 1921	Ma?	..	..
+27° 7	5.3	+28 6	7.9	7504, a 3222, a 3286, B 2022,	Ma	E.	III !!!
+43° 18	7.0	+43 16	8.0	7669, B 1814, a 1754, B 1822, 7929	Ma, Ma	..	..
+45° 24	7.2	+45 23	8.0	7669, a 1754, a 3259, a 7929	Ma	..	..
+59° 21	10.0	+59 36	9.3	7702, a 3265, a 2101, a 2543, a 1820	Ma	..	..
+40° 45	11.7	+40 23	9.1	7669, B 1822, a 1754, B 1814,	Ma	..	..
+43° 44	12.5	+43 27	8.1	7669, B 1822, B 1814, a 1754, 7929	Ma, Ma	..	..
+61° 128	30.4	+62 8	8.7	7702, a 3265, a 2101, a 1795	Mb	..	..
−4° 12	8.9	−4 27	7.8	7690, B 3232, B 3966, B 4134	Lo-Ma	..	..
+61° 43	15.3	+61 19	7.3	7661, a 1795, a 3265, a 2101	Ma	..	..
−5° 58	19.4	−5 12	7.8	7690, B 1830 10574, 10359	Ma, Ma, Ma	..	..
+57° 77	20.2	+57 25	7.5	7661 a 1820, a 2940, a 1921, a 1897	Ma	..	..
~~−4° 11~~	~~7.8~~	~~−3 56~~	~~7.2~~	~~7690~~		~~Kr.~~	~~III~~
+39° 5219	0.9	+39 51	6.7	B 2048, B 3099, B 1814, B 1822		Kr.	III
A. 14	2.2	−17 57	6.3	a 5611, B 2905, B 7068, B 7069,		Kr.	III
+39° 11	3.7	+39 56	6.8	B 3099, a 1754, B 2048, B 1814		Kr.	III
−18° 14	7.1	−18 30	5.7	B 2905, a 5611, B 7068, B 7069		Kr.	III
+23 82	30.9	+23 29	7.0	B 2022, B 855, d 17222, d 28017		Kr.	III
851	51.0	−11 49	5.7	B 7156, B 7031, B 2941, B 2099		Kr.	III
+28° 157	52.4	+28 27	6.0	a 3289, B 3277, B 3223, B 1887		Kr.	II
✱ ..	15.4	+51 3	..	7711, a 2940, a 2543, a 1897,	Md? Ma?	..	..
+50° 60	17.8	+51 13	8.3	7711, a 2940, a 2543, 2164	Ma	..	..

For additional stars in 0h see p. 78.

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Plate 7711 var.? An examination of this star on plates I 2688, 2736, 2901, 2914, 2977, 4478, 4604, 5279 shows no evidence (of variability

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Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class &c.	A.	Cl.
..	1 28.0	− 78° 55′	..	6577, 5629, 5665, 23772	P_2	..	..
..	1 56.8	− 74 54	..	6577, 5629, 5616, 11732	$O_2 2_2$		
Zl 1369	1 53.1	− 60 41	9	6826, 5623, 23773, 12034	Mc	..	..
+34° 270	1 28.2	+ 35 6	7.2	4674, 3266, 2088, 7901		Kr.	III
+72° 84	29.1	+ 72 50	8.8	8259, 564, 11772, 12006	O.	..	..
+37° 387	45.2	+ 37 32	6.9	8028, 7999, 8028, 19645	Ma	..	..
+33° 308	45.8	+ 33 17	8.5	7999, 7901, 8028	Ma	..	..
+32° 358	52.9	+ 32 22	8.7	8028, 7999	Ma	..	..
1443	25.7	− 68 41	7 3/4	8524, 11724, 12083, 19960	Ma, Ma?	..	..
2048	58.6	− 66 50	8	8524, 8657, 12106, 15184	Mb, Ma?	..	..
+60° 327	38.8	+ 60 32	8.5	2291, 2521, 3229, 7496		E.	III
+60° 335	39.2	+ 60 29	9.4	2291, 2521, 3229, 7496		E.	III!
+59° 319	40.2	+ 59 52	9.0	2291, 2521, 3229, 7496		E.	III!!
+57° 403	43.9	+ 58 2	8.8	2291, 2521, 3229, 7496		E.	III!!
+60° 375	47.1	+ 60 37	9.5	2291, 2521, 3229, 7496		E.	B III?, IV?
+60° 401	50.5	+ 60 45	9.2	2496, 5403, 19649, 25942		E.	III!!
+61° 211	1.6	+ 62 7	8.3	3229, 3265, 4214, 19265		Kr	III
+55° 278	11.2	+ 55 53	8.3	4700, 5288, 5403, 7745		Kr	III
+57° 237	11.6	+ 57 17	7.0	2183, 2291, 2520		Kr.	III
+63° 176	14.4	+ 64 9	6.6	3229, 3265, 4214, 7496		Kr.	III
+62° 241	15.5	+ 62 17	8.5	3229, 3265, 4214, 19265		Kr.	III
+62° 281	31.0	+ 62 17	9.1	3229, 4214, 7496, 19265		Kr.	B
+55° 388	36.5	+ 56 0	9.0	2183, 2291, 2520, 5403		Kr.	III
+55° 394	37.7	+ 56 1	9.0	2183, 2291, 2520, 5403		Kr.	III?
AGC. 1788	45.4	− 13 22	7.0	10134, 10631, 12240, 12248, 14433, 12674	Ma?, Ma, Ma, Ma, Ma, Ma	..	..
" 1953	54.7	− 14 22	7.0	10134, 10384, 10433, 10631, 12242, 12893, 14433	Mb, Ma, Ma, Ma, Ma, Ma	..	..
..	49.7	+ 58 46	..	2183, 2291, 2520, 3229		E	IV? var.
+53° 445	58.0	+ 53 55	9.5	2291, 2496, 2520, 9411		E.	B?
−2° 185	9.2	− 2 43	8.8	10389, 23757, 23768, 23789	Mc	..	..

Continued on p. 166

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1882phae.proj..890F

Not confirmed on I 8215.

K gives Ee as authority. Not in III Cat.

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2 h.

Ident.	R.A. 1900 h. m.	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	Cl.
..	2 16.9	− 71° 48	..	6577, 3 5616, a 5629, a 5624	Ma	..	..
+63° 828	14.0	+ 63 28	9.0	7496, a 2521, a 3074, a 3230	Ma	..	..
✓	Appx. Pos.	~~49.7 − 50 21~~ 50.5 − 50 15	..	6884, 94 B 4730, a 5619, 8860	Md, Md,	..	..
	+17° 457	50.2	+ 17 56	6.0	2251, 2267, 2394, 2079a, 2156, 7568, 2079, 9893, 11529	Mb, Mb5e, Mb, Mc, Mc, Mb5e	Mb, Mc, ..
	2698	29.8	− 8 17	5.6	a 2907, B 2174, 7022		Kr. III
✓	2295	11.4	− 41 32	7.0	8250 10586 a 12285, a 20247	Ma, Ma	.. ..
	2634	26.3	− 69 58	7½	8524, a 12106, a 20429, a 20261	Mb	.. ..
	+58° 389	3.0	+ 58 28	8.4	a 2522, a 2790, a 2986, a 6108		E. III!!
	+58° 390	3.9	+ 58 32	9.3	a 2522, a 2790, a 2986, a 6108		E. III!!
	+48° 616	4.6	+ 48 28	9.4	a 3045, a 19650, a 19655, a 25946		E. III!!!
	+57° 524	8.1	+ 57 41	9.1	a 2522, a 2790, a 2986, a 6108		E. III!!
	Persei	12.2	+ 58 30	var.	a 2522, a 2790, a 2986, a 6108		E. III!!
	+42° 563	32.5	+ 42 48	8.1	a 19646, a 19821, a 24140, a 26324		E. III!!
	+49° 755	37.8	+ 49 47	8.7	a 2310, a 19650, a 25946, a 29102		E. III!!
	..	42.3	+ 62 1	..	a 3046, a 3074, a 3075, a 3230		E. B? III?
	+42° 683	55.2	+ 42 54	8.8	a 19821, a 24140, a 26324		E III!!
	..	56.3	+ 59 25	..	a 645, a 2437, a 3046, a 3230		E B, III?
	+59° 694	59.7	+ 60 6	9.5	a 645, a 3046, a 3211, a 3230		E. B, III?, Nv?
	+55° 501	0.2	+ 55 54	8.8	a 2183, a 2291, a 2496, a 2520		Kr. III?
	+55° 529	3.4	+ 56 5	7.5	a 2291, a 2496, a 2520, a 9411		Kr. III
	+10° 437	3.4	− 10 31	7.0	a 10384, a 12342, a 12393, a 21944		Kr. III?
	+56° 512	11.8	+ 56 58	9.0	a 2291, a 2520, a 2951, a 9411		Kr. III
	+63° 322	13.0	+ 63 25	7.8	a 2521, a 3074, a 3229, a 7496		Kr. III
	+56° 583	15.0	+ 56 39	8.6	a 2291, a 2520, a 2951, a 9411		Kr. III
	+56° 595	16.1	+ 56 44	8.5	a 2291, a 2520, a 2951, a 9411		Kr. III
	+56° 597	16.3	+ 56 46	8.6	a 2291, a 2520, a 2951, a 9411		Kr. III
	+4° 418	30.6	+ 5 9	5.3	a 10311, a 10368, a 12387, a 24375		Kr. ?
	+27° 424	37.6	+ 27 18	5.0	a 20038, a 21690, a 25992		Kr. ?
	−19° 518	40.4	− 19 0	4.0	a 10426, a 12367, a 12626, a 14876		Kr. Cont.

For additional plates in 2h. see p. 84.

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Var. E.C.P.

Kr. gives Espin as authority. Not in III Cat.

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3h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate No.	Class &c.	A.	Cl.
..	3h 42 m	+11 19	..	7020, 7044, 7058, 7083, 7132, 2961a 2979a 2079	2 Md2; Md2, 2, 2, Me,	..	..
✓ ..	55	+14 24	..	7132, 7058, 7083, 7110, 2961a 2079B 4835	11789 11814 Me, Me, Md, Md, Md, Md.	..	..
+14°534	7.8	+15 3	9.5	7020, 2961a, 2079R, 4835B	2.2 Md2,	..	..
+59° 699	34.5	+59 39	6.0	3090B, 2298a, 2983a, 639a		Kr.	III
..	23.5	+58 11	8.5	659a, 2260a, 3020a, 3211a		E.	var.2
-21° 636	24.8	-21 42	7.8	2141, 12368B, 20525B, 24326B	Ma		
✓ A.G.C. 4427	52.7	-76 12	8	8267, 12076, 12077	Ma, Ma, Ma2		
✓ 3607	15.1	-22 7	3.4		5669 7154 8884 8994 10764 M, Ma, Mb, Mb, Ma, Ma, Mb, Ma2, Mb..		
+56° 779	1.0	+57 16	8.0	645a, 2437a, 3046a, 3211a		E	III
+55° 843	54.6	+56 7	8.2	659a, 2260a, 3020a, 24534a		E	III!
+58° 698	57.8	+59 1	8.4	659a, 2260a, 3020a, 3212a		E	III!
+60° 753 +58° 881	42.6	+60 14	8.7	659a, 677a, 2260a, 3212a		E.	III!!
+58° 596	15.6	+58 22	6.9	639a, 659a, 677a, 3211a		Kr.	III
+58° 599	17.4	+58 20	7.4	639a, 659a, 677a, 3211a		Kr.	III
+61° 644	43.7	+62 3	7.0	639a, 659a, 677a, 3211a		Kr.	III
+43° 726	20.9	+43 50	8.9	26713a, 26771a, 26774a, 26876a		E.	IV!
+50° 829	41.3	+50 33	9.0	2953a, 3028a, 24534a, 25943a		E.	III!!!
+41° 796	56.1	+41 27	9.0	3027, 4402, 4637, 16114		E.	III!!
+36 712	25.4	+36 39	8.5	10415 3027a 4402a 4637a	Ma	..	..
✓ A +523	59.3	-24 44	7	8647 10587 12369 12654	Mb, Mb, Mb, Mb	..	..
+10° 513	53.2	+10 44	7.7	10443, 10309Rd, 10592Ra, 12044Ra	Ma	..	..
✓ -7° 728	58.5	-7 11	8.2	10595 12679 12750 22319a	Ma, Ma, Ma	..	..
Gb. 14	1.1	-59 38	8.5	12035, 12067Ra, 15203Ra, 24208Ra	Ma	..	..
+0° 541	8.3	+1 4	8.4	12389, 10311Ra, 12226a, 24375a	Ma	..	..
+1° 567	9.7	+1 14	8.8	12226Ra 10311, 12389Ra, 24375Ra	Ma	..	..
+17° 525	11.5	+17 12	7.8	11999a 7568a 26122a	Ma	..	..
+3° 507	34.2	+3 14	8.6	12044Ra, 10369Ra, 12680Ra, 24328Ra	Ma	..	..
✓ G.C. 1404 ~~-7° 685~~	46.7 ~~43.9~~	-43 50 ~~-7 19~~	8.5 ~~7.0~~	12268 12637 12721	2N, N, N2,	..	..
+30° 591	49.1	+30 46	6.5	10669a, 21691a	A2	..	..

Continued on p 96

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1992phae.proj..890F

Var.? Plates 2865, 4850, 3281, 5328, 5462, 5197, show no evidence of var.
Prof. Schaeberle's new var. in Aries.
May be a defective class A5p. Look up on chart Plates.

Ku gives Eas authority. Not in III Cat.
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Plate 10669, F line bright.

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4h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class of Sp.	A.	Cl.
−12°1020	4h 49.4m	−12° 37′	8.0	7569, 492 4678 2298	Ma	..	..
+56° 881	4 0.3	+56 37	8.5	2942, 2953 3211, 24534		E	III !!!
+56° 898	8.7	+57 0	8.7	2260 3020		E	III !
+55° 867	12.7	+55 52	8.5	2719, 2942, 2987, 24132		Kr.	III ?
+56° 941	27.5	+57 6	8.5	2719		Kr.	III
+57° 829	32.5	+57 28	9.2	2719		Kr.	III
− 8° 929	39.3	− 8 41	5.8	12378, 12685, 12753 12769		Kr.	cont.
+55° 933	40.5	+55 30	8.8	2719 2987, 19794, 24535		Kr.	III ?
−16° 986	49.7	−16 11	9.3	10604, 12406, 12628, 22310		Kr.	III ?
+63° 551	49.7	+63 13	8.4	554, 12244, 12362 12447		Kr.	III
+38°1010	56.5	+38 56	9.5	2314, 2536, 3267 26092		Kr.	IV
+62° 729	59.1	+62 9	9.2			Kr.	III
~~+68° 868~~ Examine.	30.4	+65 59	var.	554, 12244, 12362, 12447		Kr.	B.
√ alg6. 5429	43.8	−36 23	7.5	8682, 12287, 12422, 20526	N, N,	..	..
√	−10° 863	8.7	−10 38	7.7	8862, 10637, 10595, 10596, 11798	Mb, Ma, Mb, Ma, Mb	..
√	−17° 856	16.3	−17 4	7.0	8862, 10604, 10596, 12406, 12407	Ma, Ma, Ma Ma Mb	..
	−17° 869	19.5	−16 58	9.1	8862, 10604, 10596, 2406	Ma ?	..
	−13° 893	24.5	−13 17	5.8	8862, 10596, 12378, 12406	A2	..
	+41° 824	40	+41 57	8.5	2313, 24133, 24524, 26325	E.	III !!
	+53° 748	7.5	+53 27	8.2	2942, 2953, 24132, 24534	E.	III !!
	+47° 960	8.3	+47 55	9.4	3148, 3213, 19657, 25947	E.	III !!
	+ ..	32.6	+41 23	..	3213, 19657, 25947 28553	E.	IV !! var.?
	+61° 734	40.1	+61 19	7.7	639 649 677 3212	E.	III !!!
	..	32.5	−63 14	..	12069, 15186, 24125, 24442	Md ?	..
	−9° 807	0.3	− 9 32	8.0	10595, 12679, 12750, 22319	Ma ?	..
√	−10° 834	1.1	−10 34	6.8	10595 11798 12679 22319	Mb, Mb, Ma	..
√	+1° 713	5.9	+ 2 4	8.2	10593, 12680 15135 22140	Ma, Ma	..
√	−2° 867	15.3	− 2 52	6.7	10594, 10595 12685 12750	Ma, Mb, Ma, Ma	..
	−18° 802	14.3	−17 57	7.0	12627, 12406, 12407, 17359	Ma	..

continued on p. 88

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Ke. gives E. as authority. Not in III cat.

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5h.

	Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
·	+27° 799	5h 28m.3	+27 50	8.2	5510, a 2323, 5542, 5557, 5571	Ma	..	..
·	+33° 1104	31.8	+33 28	9.0	5942, a 498, a 4679, a 3240, a 5557	Ma?	..	..
·	+34° 1132	33.4	+34 14	8.0	5942 a 498, a 4679, a 3240, a 5557	Ma	..	..
·	+32° 1021	25.7	+32 12	9.8	5859, a 4679, a 3240, a 5542, a 5557	2!	..	..
√	+62° 759	20.7	+62 59	6.0	7507, a 3101, a 2013, 12365	Ma, Ma,	..	..
	−10° 1192	22.6	−10 46	8.5	7871, a 2187, a 4678, B 3372,	Ma	..	..
	+4° 1115	59.6	+4 36	9.2	7872, a 499, a 690, a 1082	Ma	..	..
·	−15° 1047	23.0	−15 20	8.7	7920, Qa 10762, Qa 12379, Qa 18522	Ma	..	..
·	+32° 998	22.4	+32 5	8.9	7921, a 3240, a 4679, a 5638	Ma	..	..
·	+34° 1092	28.3	+34 13	9.0	7921 a 3240, a 4679, a 5619	Ma	..	..
	+45° 1209	50.6	+45 6	8.4	a 24526		E	III!
	+54° 971	57.6	+54 33	7.0	19465, 19795, 24131, 28555		E	III?
	+44° 1331	52.7	+44 59	8.1	a 24526		E	III
	+57° 931	56.2	+57 52	8.2			E	III!
	+44° 1366	59.7	+44 10	9.0	a 24526,		E	III?
	+68° 368	0.7	+68 32	8.8	a 542, a 3076, a 12237, a 12254		Kr.	III
	+55° 991	17.0	+55 19	8.8	a 19795, a 24131, a 24535, a 28555		Kr.	III
	+84° 1171	40.3	+84 31	8.2	a 498, a 3240, a 4679, a 5510		Kr.	III
	+55° 1025	45.6	+55 51	9.0	a 24131, a 28555		Kr.	III
	+55° 1044	53.8	+55 19	8.0	a 24131, a 28555		Kr	III?
	+84° 1249	57.4	+84 23	8.2	a 3258, a 12214		Kr.	III
	~~+27° 887~~	~~44.5~~	~~+27 39~~	~~7.7~~	, 10394	~~Ma, Ma, Mb~~		
	−5° 1323	30.6	−4 58	9.0	10414 a 2316, a 10603, Qa 14699	Na?	..	..
·	alg. 6448	28.9	−25 26	7.5	9041, 12370, Qa 17395, Qa 18442	Mb, Ma,	..	..
√	" 6773	42.0	−23 41	7.2	9054, 8915, 10588, Qa 17395	Mb, Mb, Mb	..	..
·	" 6246	20.1	−39 46	6.2	9061, Qa 18523, Qa 20648, Qa 20707	Ma	..	..
√	" 6720	39.6	−33 28	7	9061 12423, 12665, 14690	Mb, Ma, Ma	..	..
·	−8° 1099	17.6	−8 45	7.0	10366, a 5355, Qa 14664, a 22300	2	..	..
	+39° 1225	8.2	+40 1	8.8	a 2816, a 3030, a 10164, a 26326		E	III!!

continued on p. 90.

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Kr. gives E as authority. Not in III Cat.

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10414 IV type? Plate A 95 shows this star to be Cl. A without any peculiarity.

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6h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class. Sp.	A.	Cl.
..	h. m. 6 0.	− 86° 30′	..	6833, a 5633, a 5895, a 5898, a 5901	Md?	..	..
+7° 1121	0.2	+ 7 32	9.0	7872, a 2406, a 499, a 690,	Ma	..	..
+11° 1096	10.8	+11 29	8.8	7872, a 2406, a 543, a 2324	Ma	..	..
+6° 1192	13.5	+ 6 59	9.0	7872, a 499, a 690, a 2400, a 2406	Ma	..	..
+5° 1198	15.5	+ 5 47	8.3	7872, a 499, a 690, a 565, a 2400	Ma	..	..
+6° 1258	23.5	+ 6 50	9.0	7872, a 2400, a 2447, a 565	Ma	..	..
+53° 997	3.8	+53 50	8.2	a 19465, a 24131, a 28555		E	III!
+45° 1259	3.9	+45 5	7.9	a 24526, a 24537		E	III!
+54° 997	4.87	+54 0	8.9	a 19465, a 24131, a 28555		E	III!
+44° 1388	4.9	+44 8	8.4	a 495, a 24526, a 24537		E	III!
+45° 1264	6.0	+45 4	8.0	a 24526, a 24537		E	III!
+57° 947	6.1	+57 48	7.7			E	III!
+53° 1002	9.0 8.9	+53 40	9.1	a 19465, a 24131		E	III?
+54° 1012	11.8	+54 17	8.9	a 19465, a 24131		E	B
+45° 1288	14.0	+45 9	8.2	a 24526, a 24537, a 28470		E	III!!!
+45° 1296	17.2	+45 14	8.0	a 24526, a 24537, a 28470		E	III!!
+44° 1445	19.4	+44 52	8.6	a 24526, a 24537, a 28470		E	III!
+54° 1033	20.5	+54 38	9.2	a 19465, 24131, 28555		E	B, III?
+45° 1302	20.7	+45 34	9.3	a 3274, a 3396, a 24526, a 28470		E	III!!
+47° 1311	25.8	+47 18	8.0	a 3274, a 3396		E	III!!
+48° 1403	28.3	+48 28	8.9	a 3274, a 3396		E	III!
+59° 1006	33.7	+59 47	8.3			E	III!!
+57° 1228	34.6	+57 12	8.7	a 3274, a 3396, a 19465		E	III!!
+50° 1341	35.3	+50 25	8.9	a 3274, a 3396, a 19465		E	B
+57° 999	35.6	+57 14	9.0	a 1051		E	B III?; var?
+49° 1541	38.0	+49 34	9.4	a 3274 a 3396, a 19465		E	B, III?, var.?
+55° 1131	38.8	+55 54	8.0	a 4836,		E	III? var.?
+52° 1136	44.0	+52 6	8.0	a 4836, a 19466		E	III!!
+51° 1255	48.0	+51 50	8.8	a 4836, a 19466		E	III!

For additional stars see p. 92.

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Var?

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7h.

Ident.	R.A. 1900 h m	Dec. 1900 ° ′	Magn.	Plate No.	Class Sp.	A.	Cl.
A. 9326	7 14.8	− 36° 33	5.3	7382, 4784, 18386, 20670	A2	..	..
+17° 1502	7 2.3	+17 1	9.0	2722, 2956, 2989, 24368	Md2, I1,		..
+30° 1439	4.8	+30 25	4.7	2092, 2002, 1902, 21684		Kr.	II
+5° 1636	17.1	+5 48	8.3	8230, 12755, 15139, 15243	Ma	..	..
+9° 1715	31.3	+9 30	8.5	8230, 3006, 3031, 3196	Ma	..	..
~~+14 1738~~	~~38.5~~	~~+14 25~~	~~7.9~~				
+50° 1401	4.3	+49 57	7.0	4836, 19466, 24961		E	III!!
+52 1189	9.9	+52 9	9.0	4836, 19466		E	B, III?
+49 1621	17.7	+49 51	8.0	4836, 19466, 24961		E	III!
+48° 1537	21.4	+48 8	7.2	3274, 3396		E	III!!!
+50 1439	23.4	+50 15	7.8	4836, 19466, 24961		E	III!!!
+56° 1241	43.0	+56 39	8.6			E	III! Faint
+31° 1534	13.8	+31 34				for	
~~+10° 1882~~	~~3.8~~	~~−10 28~~	~~9.7~~	12219, 21684, 28613		~~&~~	III
−20° 1877	17.2	−20 45	9.8	2477, 18288, 18301, 18983		Kr.	B
+33 1585	41.1	+33 40	5.3	1964, 12219, 28613		Kr.	III
+31° 1540	14.3	+31 40	8.7	12219, 21684, 28613		Kr.	III3
+32° 1613	37.1	+32 40	7.8	10177, 1964, 12219, 28613	Ma	..	..
+37° 1769	40.0	+37 46	5.3	10407, 10663, 26094	Ma, 2,	..	..
−18° 1957	35.9	−18 19	8.8	10430, 10933, 18288, 18983	O2	..	..
−15° 1966	35.1	−15 36	7.5	10605, 546, 18776, 18983	Ma	..	..
~~+13° 1737~~	~~36.3~~	~~+13 44~~	~~6.5~~	~~10604~~	~~Ma~~	..	..
~~+14° 1729~~	~~36.4~~	~~+14 26~~	~~6.0~~	~~10604~~	~~Ma~~	..	..
~~+14° 1738~~	~~38.5~~	~~+14 25~~	~~7.9~~	~~10604~~	~~Ma~~	..	..
−14° 2332	57.0	−14 29	8.2	10605, 12684, 12773, 20896	Ma	..	..
A16. 9063	5.7	−27 43	7.5	8905 12662 12666 24433	Mb, Ma, Ma	..	..
+12° 1594a	28.4	+11 57	var.	10604 10692 10771 10429 10737 12025 12089 12144 12497	Ma 2, 2, 2, 2, 2, 2, 4, 2	..	
A. 9474	19.0	−67 0	8.2	8913, 15223 15274	Mb	..	..
..	19.3	+9.1	..	10734, 3196, 11792, 15139	O	..	..
+22 1679	20.1	+22 7	9.3	8072, 2475, 2722, 20211	N2	..	..

Continued on p. 94.

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*me.?

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8h

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Obsn Sp.	A.	bl.
..	h. 1900 m 8 38.4	− 39° 4′	..	D² 7234, 4660a, 4957a, 4947a	C²	..	..
✓ 11682	8 35.3	−16 56	6.7	7256, 2368B, 4917B, 8827	90 1/2 Mb, Mb, Mb-5c,	..	..
+20° 2113	8 27.6	+20 48	9.2	7703, 571a, 2339a, 4834a	Ma²	..	..
+21° 1878	8 33.0	+21 31	9.2	7703, 571a, 2339a, 4834a	Mb	..	..
+21° 1896	8 37.5	+20 59	8.7	7703, 571a, 2339a, 4834a	Mb	..	..
+18° 2059	8 45.3	+18 24	8.5	7705, 693a, 669a, 571a, 2339a	Mc²	..	..
+43° 1815	8 15.9	+43 31	5.0	2126a, 2003a, 2424a,		Kr.	II
+18° 1900	8 11.2	+18 24	8.5	7873, 5985a, 2339a, 571a	Ma²	..	..
+19° 2004	8 19.1	+19 29	9.0	7891, 5985a, 2339a, 571a	Ma	..	..
+19° 2008	8 20.5	+19 10	8.7	7891, 5985a, 2339a, 571a	Ma²	..	..
+19° 1979	8 14.2	+19 46	8.5	7925, 5985a, 2339a, 571a	Ma²	..	..
−7° 2433	14.3	− 7 14	7.2	8216, 19136a, 21394a, 24456a	Ma	..	..
−9° 2612	34.9	− 9 14					
~~+1197~~	~~18.0~~	~~− 7 14~~	7.7	8065, 19015a, 19016a, 22289a	Mb	..	..
+48° 1649	21.7	+48 23	8.3	22538a		E	III.!!!
+48° 1708	52.5	+48 40	7.9	3244a, 3363a, 3373a		E	III.!
+50° 1660	54.6	+50 11	8.5	3244a, 3363a		E	III.!
+52° 1358	55.8	+52 40	8.2			E	III.!
+49° 1797	56.5	+49 27	8.4	3244a, 3363a		E	III.!
−17° 2311	0.0	−17 23	6.8	18976a, 20857a, 24954a, 22313a		Kr.	III
+29° 1860	58.4	+29 41	8.0	10396a, 547	Ma	..	..
✓ 6 Dm. −40° 4455	34.0	−40 5	7.3	8890, 13055, 13063, 13073	Ma, Ma, Ma, Ma	..	..
~~+13° 1912~~	~~21.2~~	~~+12 58~~	~~5.8~~	10606	Ma		
✓ 10912	8.1	−35 28	9	8825a, 8897a, 12788a, 13054a	Ma, Ma	..	..
36. 8h. 4670	58.3	−57 32	8.5	9349, 9284a, 13082a, 15189a	Mb-5c	..	..
~~10963~~	~~9.7~~	~~−35 35~~	~~5.3~~	~~8825~~	~~A2.~~		
~~−16° 2541~~	~~35.3~~	~~−16 56~~	~~6.5~~	~~8827~~	~~Mb~~		
✓ A.G. 11942	44.1	−28 17	7.0	9028, 8882a, 13072a, 18994a	Mb, Mb	..	..
" 12234	55.3	−50 25	7.5	9349, 10699a, 13021a, 13029a	Ma	..	..
" 11512	28.8	−62 45	8	8913, 13025a, 13026a	Mb	..	..
C Dm. −22° 5693	3.2	−22 37	8.3	10866a, 15158a, 22530a, 22543a	N	..	..
~~36. 4141~~	~~57.6~~	~~−47 13~~	~~9~~	~~13021~~	~~O~~		

Continued on p. 178.

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A.G.C. magn. should be 6 instead of 9. See note in A.G.C. Catalogue.

V Trybee

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Ident.	Ra 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
	9h. m.						
+37° 2022	43.4	+37° 14′	6.3	B 2044, a 2447,		Kr.	III
+73° 478	49.4	+73 21	6.3	a 3148, a 2509,		Kr.	II
+52° 1362	0.1	+52 3	7.3	a 3244		E	III!
+51° 1499	15.6	+51 26	8.3	a 3244, a 3363, a 25213		E	III! Near Neb.
+50° 1640	20.2	+50 9	8.0	a 3244, a 3363, a 25213		E	III!
+43° 1943	32.9	+43 36	6.5	a 3363, a 3373, a 24964		E	III!
+41° 2021	46.4	+40 52	7.8	a 24964		E	III!
+52° 1446	55.4	+52 19	8.9	a 3244, a 25026, a 25213		E	III! Faint.
..	18.5	−21 50	..	a 9114, a 13323, a 18977, a 22545		Kr.	2
+38°1907	41.4	+38 15	7.5	10179	Ma	..	..
+32°1941	44.9	+31 52	7.2	10179	Ma	..	..
√ alf. 12668	14.6	−33 40	7.4	9085, 13022, 13047, a 18927	Ma, Ma, Ma	..	..
" 12762	18.6	−20 36	6.8	9114, 8882, a 13323, a 18977	Mb, Ma,	..	..
" 12935	24.9	−56 53	8	9284, 9349, a 9374, a 9398	Ma, Ma	..	..
√ " 13008	27.3	−54 48	8	9284, 13082, a 9349, a 9398	Ma, Ma	..	..
" 13430	46.8	−10 52	6.3	9093, a 17392, a 18996, a 21395	Ma?	..	..
√ " 13554	51.6	−57 15	8.5	9284, 13082, a 9374, a 9398	OO	..	..
" 13624	54.8	−58 23	8	9284, 13082, a 9374, a 9398	Md?	..	..
" 13665	56.7	−59 44	7.8	9284, 13082, a 9374, 13761	N	..	..
Approx. Pos.	36.3	−17 21	..	9035, 13154, a 13280, a 13347	N?	..	..
+21° 2140	54.5	+21 44	9.0	10955, a 10934, a 21686, a 21687	?	..	..
Est. Pos.	18.5	−57 52	..	9349, a 9284, a 9398, a 13082	O	..	..
..	9.8	−49 42	..	10749, a 12867, a 13021, a 13032	O	..	..
Zb. 9h. 2317	29.5	−53 37	8½	9349, a 10749, a 12867, a 12890	Ma	..	..
+10° 2067	48.6	+10 44	8.0	9463, a 538, a 653, a 22649	Mb	..	..
√ +5° 2263	53.7	+5 16	7.9	9463, 13361, 13390, a 22649	Ma, Ma, Ma,	..	..
−31° 6877	0.3	−32 3	8.2	13102, a 18927	Ma	..	..
A. 12442	4.7	−24 26	8.5	13144, a 5524, a 18573, a 18977	Ma	..	..
−12° 2872	16.4	−12 57	8.8	13154, a 17246, a 18998, a 22239	Ma	..	..
−13° 2866	24.5	−13 18	7.2	13280, a 17246, a 21395, a 22239	Ma?	..	..

(continued on p. 180)

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Plate 9035, defect. No star on BD. Chart. No star on plate I 282.

Plate 10749; V type. New.

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10h.

Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	Cl.
A. 14685	10h. 40m.1	−55° 16′	8½.	7501, 4825B, 3566a, 9421a, 12976a	Ma?	..	..
..	10 49.8	−58 59	..	7496, 3566a, 4825B, 7526a, 7530	O?	..	..
14970	52.1	−57 31	7	7501 3566a, 4825B, 7526a	Ma	..	..
✓ ..	7.2	−60 8′	..	7392, 5869a, 3566a, 4822a, 9398	O, O	..	..
13940	9.5	−23 19	6.8	5874, 5896a, 5893B, 706a	Ma?	..	..
14329	25.7	−24 22	8½	5896, 6553B, 5874a, 5893a,	Ma?	..	..
..	27.4	−63 28	..	7496, 4822a, 3566a, 4825B,	Mb	..	..
14886	48.4	−56 43	6.0	7236, 5880a, 3566a, 4825B,	A2?	..	..
✓ 15119	58.5	−31 25	6.8	5878, 5870a, 5893B, 7761, 11324	Ma, Mb, Ma	..	..
+32°2066	36.6	+32 14	6.5	2309a, 2094B, 5379B, 22792a		Kr.	III
✓ Zb. 1299	18.3	−71 38	7.5	5890, 8260, 9488, 9489	Mb, Ma, Mb, Ma	..	..
+42 ~~2065~~ 2095	5.4	+42 14	7.5	24964a, 25205a, 26089a		E	III!
+53°1470	~~6.0~~ 5.6	+53 3′	8.5	20238a, 25026a, 25213a		E	B, III?, var.?
+54 1357	6.6	+54 28	9.2	20238a, 25026a, 25213a		E	III!
+47°1756	10.1	+47 27	8.0	25026a		E	III!
+43 2007	12.5	+43 34	7.0	24964a, 25205a,		E	III!
+42°2131	29.3	+42 25	7.1	24965a, 25205a, 26634a		E	III!
+55°1422	48.1	+55 19	8.0	3286a, 696a, 20238a 20239a		E	III!
+52°1522	49.0	+52 40	7.8	3286a, 25026a		E	III!
+55°1429	51.7	+55 21	8.3	696a, 3286a, 20239a		E	III!!!
+56°1490	52.0	+55 58	7.7	696a, 3286a, 20239a		E	III!
+52°1527	52.1	+52 8′	7.8	696a 3286a, 25026a		E	III!
+55°1432	53.0	+55 33	8.0	696a 3286a, 20239a		E	III!
+57°1301	54.4	+56 59	9.0	696a, 3286a, 20239a		E	III!!
+87 2080	22.1	+87 13	4.0	24965a, 26089a, 26634a		Kr.	cont.
+6°2369	50.8	+6 43	6.5	10169a, 9464a, 13394a, 22650a	Mb	..	..
A. 14444	18.9	−89 1	8.2	8184 8165 13459a	Ma, Ma	..	..
" 14392	28.5	−61 11	3.6	9097, 12901a, 13027a, 21154a	A2?	..	..
" 14343	25.8	−64 40	7.2	9489, 12901a, 13027a, 15611a	Ma	..	..

Continued on p. 134

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Plate 7496;
Very faint. See Plate 5003 B.

p Carinae. F line bright? Not confirmed on Pl. B. 4864.

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11h.

Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	bl.
~~A. 15666~~							
A. 15669	11h 23.1	−34 46	6.9	7266, 4988B, 4958a, 7988a	Ma?	..	..
15951	35.2	−27 56	7½	7266, 5179a, 5894B, 13117a	Ma	..	..
15912	33.9	−47 18	7½	7455, 4950a.b, 3445a, 5881a	Ma	..	..
✓ −16° 3206	8.1	−16 43	8.0	5815a, 694a, 5452B, 3413B 13127 13130	Ma, Ma, Ma	..	..
..	5.0	−54 58	..	7496a, 5880a, 4951a, 19030a	Md?	..	..
✓ 15440	10.5	−85 41	7.5	6833 5166, 5898a, 5901a, 5895a	Ma?, Ma	..	..
✓ −15° 3275	23.9	−16 3	7.5	7706, 3413B, 5452B, 4849B 13127 13506	Ma, Ma, Ma	..	..
✓ −16° 3262	25.0	−17 13	7.7	7706, 694a, 3366B, 3413B 11332 13127	Ma, Ma, Ma	..	..
+50° 1852	37.4	+50 30	7.8	5945, 3538B, 3504B, 2142a	Ma	..	..
+52° 1590	45.6	+51 58	7.3	5945, 3538B, 3504B, 2142a	Ma	..	..
+51° 1725	59.9	+50 51	8.2	5945, 3245B, 3538B, 3504B	Ma	..	..
✓ 15296	5.6	−35 33	7.8	7762, 5878a, 4958a, 4988B 9377 11324 13056 13164	Mb, Ma, Ma, Ma, Ma	..	..
+5° 2555	48.9	+5 26	8.0	6013a, 2752B, 3572B, 19342a	Ma	..	..
Z.C. 11h. 962	14.7	−44 33	8	7990a, 4949B, 4988B, 4950b, 13033	Mb, Mc	..	..
15639	21.5	−38 53	8.8	7953a, 5878B, 4988B, 5168a	Md?	..	..
✓ 15879	32.6	−38 48	7¼	7953 7794a, 5878B, 4988B, 5168a, 9400 9377	Mb, Ma, Ma, Ma	..	..
✓ ✓ 16138	43.6	−35 26	7¼	7932, 7953 7794, 4988B, 5168a, 5437a	Me, Me:d, Me	..	..
16162	45.2	−69 40	5.6	8261a, 13024a, 13773a, 15619a	Ma	..	..
✓ 16490	59.8	−69 26	7¼	8261, 13024a, 13773a, 15619a	Ma, Ma	..	..
15755	27.1	−58 53	5.2	8269a, 9454a, 11262a, 21695a	Md?	..	..
+53° 1463	0.1	+52 52	7.2	696a, 3286a	E	III!	
+56° 1498	0.7	+56 36	7.5	696a, 3286a, 20239a	E	III!	
+52° 1541	3.5	+51 55	7.2	3286a, 3511a	E	III!	
+56° 1510	12.7	+55 49	8.7	696a, 3286a, 20239a	E	B.	
+54° 1485	13.3	+53 51	9.2	696a, 3286a, 20239a	E	B.	
+52° 1573	29.2	+56 17	8.5	20239a	E	III:? Faint.	
+56° 1540	37.8	+56 35	8.0	20239a	E	III!	
+36° 2216	40.4	+36 26	7.0	22793a	E	III !!!	
+55° 1494	~~46.3~~ 46.2	+54 51	8.5	20239a	E	III !!!	
A. 15776	27.9	−39 53	6.2	7794a, 9400a, 13057a, 13157a	Ma	..	..

Continued on p. 132

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Plates 4818, 5004, 5799, 7240, 7464 show no evidence of var.

Plate 7958 var.? the time examination was made. are all the chart plates taken of this region up to 8000 with the exception of 7534+7822, which were not in boxes at May to definite U. A. — — B Plates 3351, 5062, 5300, 5369, 5370, 7473, 7488 examined, show no evidence of var. Thes

" " " B (chart) plate 334

Of this region up to 8000, except 7534+7822 which were not in boxes at the time examination was made.
Plate 7958, var.? B Plates (chart) 3340, 3475, 5062, 5369, 5370, 7473, 7488, examined show no evidence of var. These are all the chart plates

Plate 8269, var. (evidence of variability. Looked up on chart plates B 3511, 5003, 5134, 5061, 5199, 5279, 3358, 3370, Show no ^

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12 h.

	Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Selan. Sp.	A.	Sel.
✓	A. 17267	h. m. 12 35.9	− 27° 21	7.2	7708, 5447, 5262, 5180	Ma	..	..
✓	−14° 3573	41.2	− 14 53	8.0	7707, 5816, 6132, 868	Ma, Ma	..	..
	..	4.9	− 45 36	..	7969, 3445, 5281, 4951, 5446	Ma	..	..
✓	..	9.4	− 50 58	..	7969, 4951, 5446, 4951	N, N	..	..
	..	15.7	− 46 2	..	7969, 3445, 5281, 4951, 5446	Ma?	..	..
	+67° 764	43.5	+ 67 20	5.3	2587, 3534, 2260, 3520, 3247		Kr.	III
	+9° 2700	53.8	+ 8 45	8.5	7974, 887, 902, 22317	Mb	..	..
	17195	33.0	− 66 38	6.9	8262, 13438, 13096, 19900	Q	..	..
	+56° 1575	7.4	+ 56 16	7.3	3399, 20240		E	III
	+56° 1578	9.5	+ 56 9	8.5	3399, 20240		E	III!!
	+56° 1583	11.4	+ 56 8	9.0	3399, 20240		E	B? var.?
✓	Z.C. 12h. 2461	42.3	− 29 15	8.8	9060, 18781, 15602, 22825	Ma, Ma	..	..
✓	A. 17659	53.6	− 29 27	7.2	9060, 13890, 11396, 15602	Ma?, Ma	..	..
✓	−17° 3751	55.9	− 17 36	7.0	9071, 13138, 11395	Ma, Ma	..	..
	AG. 17153	30.8	− 33 11	8.5	9060, 13077, 13326, 13842	Ma?, Ma, Ma, Ma	..	..
✓	" 17486	46.3	− 30 32	7.3	9060, 13076, 13781, 11396	Ma, Ma, Ma	..	..
	" 16812	14.7	− 64 5	7.5	9455, 13028, 13438, 21746	Ma	..	..
	" 16870	17.5	− 64 10	7.5	9455, 13028, 13438, 21746	Ma	..	..
✓	+1° 2746	39.3	+ 1 4	8.2	11372, 13396, 1030, 2752	Ma, Ma	..	..
✓	+1° 2776	55.0	+ 0 51	7.8	11372, 9466, 9568	Ma, Ma, Ma	..	..
	Z.C. 12h. 1460	25.1	− 56 30	9	9429, 9455, 11263, 12886	Mb	..	..
	+58° 1897	47.0	+ 58 17	8.0	697, 831, 996, 3405		E.	III!!
	A. 17657	53.6	− 59 29	8.2	9399, 13085, 13794, 19869	Ma	..	..
✓	+6° 2606	19.1	+ 6 32	8.1	9465, 13724, 13396, 22652	Ma, Ma	..	..
	..	28.0	− 54.1		9520, 9399, 12886, 13085	Mc	..	..
	+4° 2683	55.4	+ 4 8	8.0	9466, 1030, 2752, 22317	Ma N.S.	..	..
	(Chandler's Pos.)	28.7	− 3 52	..	12450, 882, 19141, 19233	?	..	..
	Z.C. 11h. 4073	0.1	− 55 36	8.5	13084, 8312, 19005, 19024	Ma	..	..
	A. 16650	6.4	− 26 31	8	13325, 21156, 21432, 22825	Ma	..	..
	" 16664	7.1	− 58 57	8.5	13028, 11263, 16724, 23016	Ma	..	..

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Stars selected for measurement on Plate 5350.

Plate 9520; var. G + h br. "var. Confirmed March 30, 1894. E. C. P."

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13h

Identt.	R.A. 1900 h m	Dec. 1900	Mag.	Plate Nos.	Class Sp.	A.	Cl.
A. 18931	13 51.0	−65 18	6.8	7259, 5212B, 5448a, 5159c	2	..	..
18518	31.7	−50 6	7.5	7716, 7970a, 3417a, 5272a, 4968a	Ma, Ma	..	..
..	45.8	−45 38	..	7652, 5170a, 3722a, 4952a	Ma	..	..
18969	52.6	−47 19	8	7652, 5170a, 3722a, 4952a	Ma	..	..
19014	55.6	−76 19	var.	5488 3488 5585 7597 7676 7995 7996 5431B 5848a 5901a 8135 8329 Mean! Mc a.d? Mb Mb-c Mc Mb-c Mc Mb-c Mc		E.	..
Zb. 619	11.7	−45 53	8½	7970, 4959a, 3567a, 3417a, 5272a	Ma	..	..
" 769	14.0	−25 42	8	7954, 5180a, 3635a, 3634B	Ma	..	..
18347	23.7	−45 40	7½	7970, 3567a, 5170a, 3417a, 5272a	Ma	..	..
−0° 2708	30.7	−0 28	8.5	7892, 6312B, 1019a, 1031a	Ma	..	..
+1°2839	37.3	+1 29	8.0	7892, 6312B, 1337a, 11366	Ma?, Ma	..	..
18548	33.3	−71 22	7.6	8262, 9490, 9491, 3440	Ma, Ma, Ma, Ma	..	..
18663	39.0	−57 45	7½	8282, 8313a, 11264a, 23238a	Ma	..	..
Z.C. 2907	49.0	−58 17	9	8262, 8313, 11264, 23238	Ma	..	..
+53° 1667	49.6	+52 49	6.3	3939a, 22976a, 25364a		E	III!!
+54° 1632	53.3	+54 24	7.3	3939a, 22976a, 25364a		E	III?
+53° 1678	56.3	+52 57	8.0	3939a, 22976a, 25364a		E	III!
+39° 2620	8.4	+38 50	6.8	681a, 3761a, 22965a		Ku.	III
+60° 1401	24.8	+60 28	5.3	697a, 831a, 996a, 3405a		Kr.	?
A 18909	49.7	−25 56	8.2	7990, 13159a, 21218a, 22785a	Mb	..	..
" 17834	1.3	−37 1	8.5	9135, 9455, 13107, 13158	Ma, Ma,	..	..
" 17872	3.2	−62 20	9	8229, 9456a, 13439a, 19892a	O	..	..
Zb. 13h 245	5.6	−38 28	8.5	9135, 13059a, 13107a, 13158a	Ma	..	..
A. 18034	10.0	−41 32	8.2	9135, 9433a, 11397a, 13059a	Ma	..	..
" 18157	15.5	−63 42	8	8229, 9456, 9490, 13096	N, N, N, N	..	..
" 17923	5.5	−56 23	7.5	8313, 9375a, 9422a, 13085a	Ma	..	..
" 17992	8.3	−57 14	8¼	9375, 9399a, 9422a, 13085a	Ma, Ma	..	..
" 18023	9.5	−9 50	7.5	9430, 1031a, 19019a, 19142a	Ma	..	..
" 18071	11.9	−60 48	8	8313, 9375, 13438, 13439, 13794	Ma, Mb, Ma, Ma	..	..
" 18167	15.7	−23 57	7¼	9444, 13390 853a, 13754a	Ma, Ma	..	..

Continued on p. 136

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Kr. gives E as authority. Not in III Cat.

" " " " " " " "

Plate 8229; defect. Br. line not confirmed on O plate 9456 (B Series).

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14h.

Ident.	R.A. 1900	Dec 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
A. 19284	14h 10m.9	−83° 13′	4.7	7302, 5898a, 5901a, 3390B	2	..	..
..	44.0	−85 45	..	6819, 5898a, 5901a, 3390B	2	..	..
..	22.1	+5 2	..	6187, 526B, 1318B, 559B	Md	..	..
19187	3.5	−18 46	7.3	7724, 7947, 486B, 3674B, 3568B, 11360	Ma, Ma, Mb, Mw	..	..
Zb. 14h 518	10.7	−79 15	7.5	7957, 5438B, 3390B, 13442	Mb, Ma	..	..
19793	32.3	−75 24	8	7957, 5438B, 3390B, 11717a	Ma	..	..
Z.C. 3333	54.0	−37 28	8½	7770, 3447a, 3607a, 3679a	Ma	..	..
19251	17.7	−75 37	7	8262, 8301a, 11717a, 19160a	Ma	..	..
Z.C. 389	7.7	−56 2	9	8282, 8321a, 11659a, 19853a	Ma	..	..
−13° 3869	13.8	−13 57	8.0	8334, 9542, 11312, 13352, 13365	Ma, Ma, Mb, Ma, Ma	..	
Zb. 1137	19.6	−59 50	8¼	8275, 11524, 8314a, 11508a	Ma, Ma	..	
19689	27.3	−60 32	7¾	8275, 11508, 11524, 13086, 13764	Mc, Mb:c, Mb, Ma, Mb	..	..
19990	40.6	−62 56	7¼	8275, 9424a, 11525a, 13087a	Ma	..	..
20139	47.1	−60 40	8¼	8275, 11508, 11524, 13764	Mb, Ma, Ma, Ma	..	..
19419	15.9	−55 30	8¼	8282, 11508, 13086, 19893	Ma	..	..
20111	45.6	−63 21	8½	8276, 9424a, 11525a, 13087a	?	..	..
+53° 1703	12.8	+53 23	8.7	855a, 3939a, 20241a, 22976a	E	III!!	
+53° 1706	16.1	+52 51	8.9	855a, 3939a, 20241a	E	III!!!	
+54° 1679	22.3	+54 10	8.8	855a, 3939a, 20241a	E	III!	
+51° 1934	31.7	+51 26	8.7	3586a, 3701a, 25253a, 25356a	E	B	
+53° 1722	32.5	+53 18	9.1	855a, 3939a, 20241a	E	III!!	
+52° 1844	59.4	+52 1	7.3	3601a	E	III!	
+38° 2565	28.1	+38 45	2.8	8067a, 22966a, 24968a, 25239a	Kr,	?	
−17° 4142	34.8	−17 14	var.	11058a, 11384a, 13140a, 25273a	?	..	..
A 19742	32.2	−84 8	8.5	8164a, 13441a, 13442a	Ma	..	..
+13° 2852	45.8	+13 12	7.5	11063a, 14453a, 14457a, 14471a	Ma	..	..
A. 19580	22.6	−44 42	8.2	9118a, 9445a, 11753a, 13060a	Ma	..	..
" 19587	23.2	−43 20	8	9118, 11685, 11753, 13060	Mc, Mc, Mc	..	..
" 19673	26.3	−44 40	8¼	9118a, 9445a, 11753a, 13060a	Ma	..	..

For additional red stars in 14h. see p. 138.

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Confirmed from exam. of Plates B2717, 1179, 3619, 6285, 6321, May 27, 1892.

11058 lies ft. N.S.

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15h.

Identt.	R.A.	Dec.	Mag.	Plate Nos.	Class Sp.	A.	dd.
Approx. Pos.	1900 15h 18.5m	-22°		6605, 6655, 832, 1020, 3636, 11055	Md, 2: Md2, 1 Md	..	..
20937	21.9	-24 49	8	6605, 6933, 6655, 832, 5782, 3636, 11053	0: 2, Md, 2:!!, 2, Nd:	..	..
+36° 2652	47.4	+35 59	5.0	6676, 1418, 2748, 2705	Mb	..	..
+40° 2932	48.0	+40 3	7.5	6595, 3833, 1747, 1842	Ma	..	..
Zc. 15h 819	14.9	-74 55	8.5	6955, 3917, 5431, 3912	N,	..	..
21249	35.4	-28 59	7½	6933, 3448, 3612, 5203, 7718	Ma, Ma,	..	..
20537	3.1	-26 7	7.5	7769, 5182, 3636, 3448, 13079, 13151	Ma, Ma, Ma	..	..
..	11.0	-41 34	..	7719, 3679, 3723, 3690, 4953	Ma	..	..
20862	18.7	-25 18	8	7718, 5182, 3636, 3448	Ma	..	..
20872	19.2	-26 24	8	7718, 5182, 3636, 3448	Ma	..	..
Zc. 1964	30.2	-40 22	8	7719, 3679, 3728, 3690, 4970, 13122	Ma, Ma	..	..
21154	31.3	-39 47	8½	7719, 3647, 5161, 3679, 11399, 13061, 13088	Ma, Ma, Ma	..	..
21593	51.1	-51 28	8¼	7651, 4970, 3930, 3680, 3724, 3690,	Ma, Ma	..	..
Zc. 104	3.1	-32 27	8½	7770, 3448, 3647, 5161,	Ma	..	..
Zc. 388	7.3	-37 10	8	7770, 3647, 3679, 21508	Ma	..	..
20523	2.4	-37 12	7¾	8193, 9486, 13432, 21508	Ma	..	..
21005	25.0	-50 31	7½	8263, 9435, 11689, 11689, 11689, 13827	Ma, Ma, Ma, Mb	..	..
+51° 2003	22.5	+50 56	7.0	3601, 25254	E	III	!!
+53° 1790	30.8	+53 25	8.3	3601	E	III	!!
+50° 2195	32.2	+50 1	7.0	1336, 3601, 25254	E	III	!
+53° 1807	42.6	+53 0	7.7	1336, 3601	E	III	!
+52° 1903	43.7	+52 28	7.5	1336, 3601	E	III	!!
+28° 2477 Coronae	44.5	+28 28	var.	1086, 6154, 6221, 6942	E	var.	
+50° 2218	45.2	+50 9	7.6	1140, 1314, 1336, 3601	E	III	!
Coronae	55.3	+26 12	–	6154, 6221, 6942, 7005	E	B	
+53° 1832	57.1	+53 25	8.0		E	III	!
+41° 2611	28.2	+41 15	4.8	1747, 3602, 3709, 25478	Kr	III	
R. R. Librae.	50.6	-18 1	..	11239, 13133, 22822, 25274	Md, Ma		
21775	58.4	-38 56	7.5	8571, 9415, 13122, 13141	Mb, Mb, Mb, Mb		

For additional stars in 15h. see p. 140.

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Var. Aew.

with G in adjacent slit.
This star has been examined on B 3894 + by matching this with 6955 it is apparently a objective image of a I type star. The break identifies

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16h.

Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class.	A.	bl.
Approx. Pos.	16h 59m	-81° 28'	..	7666, 5229, 5432 B, 5339 B	2N?,	..	..
..	0.3	-85 15	..	6819, 6445, 3390 B, 3917 B, 5431 B	Ma	..	..
21836	1.3	-37 55	8	6823, 3900 a, 3724 a, 4955 a	Ma	..	..
22533 } 22534 }	33.9	-48 34	6¾ 6	6831, 4955 a, 3931 a, 3691 a	A2	..	..
22654	39.8	-41 18	7½	6762, 3609 a, 3637 a, 3931 a, 9417, 8618, 10347	Ma?, Ma, Ma, Ma	..	..
-40° 10889	47.2	-40 18	8.0	6762, 3609 a, 3637 a, 5731 B-a, 13765, 13800	Ma Ma Ma	..	..
..	49.	-39 27	..	6762, 3609 a, 3637 a, 5731 B-a,	2!	..	..
22887	49.3	-40 30	7½	6762, 3609 a, 3637 a, 5731 B-a	2	..	..
22899	49.6	-40 40	6½	6762, 3609 a, 3637 a, 5731 B-a	2	..	..
22914	49.9	-40 22	7½	6762, 3609 a, 3637 a, 5731 B-a	2	..	..
..	18.5	-46 43	..	6823, 4955 a, 4884 B, 4954 a	O?	..	..
Z.C. 1568	24.7	-39 59	9½	6762, 4223 B, 5762 a, 4954 a	O	..	..
..	47.7	-41 40	..	6762, 3609 a, 3931 a, 5731 a-B,	2O?	..	..
Z.C. 3781	54.8	-50 52	8½	6831, 4088 B, 3901 a, 4088 B	2	..	..
21989	9.8	-75 44	7.1	6955, 3917 B, 5431 B, 5229	Ma?	..	..
..	14.9 (15.)	-22 28	..	6665, 3694 a, 5183 a, 3405 a,	N?	..	..
Z.C. 15h 4070	0.1	-55 43	8½	7651, 3900 a, 4023 a, 4971 a	MbP?	..	..
Z.C. 16h 1113	17.6	-29 57	8	6665, 3694 a, 5183 a, 3664 a, 3904 a	Ma?	..	..
+42° 2714	25.4	+42 6	var.	2737, 2748, 8514, 13570, 3805, 7541, 11221, 8619, 11487 a, 5780 B, 2708, 3848	MbSe MbSe MbSe MbSe MbSe MbSe MbSe MbSe MbSe,	IIIa,	IIIa::
..	56.8	-36 46	..	8255, 8294 a, 13766 a, 22853 a	Md	..	..
..	57.7	-36 30	..	8255, 8294 a, 13766 a, 22853 a	Md?		
+53° 1835	0.7	+53 29	8.2			E	III!
+36° 2767	37.5	+36 22	7.8	1449 a, 3805 a, 5780 a, 25567 a		Kr.	III
-5° 4237	0.8	-5 17	9.0	11007, 11166, 11240, 9469	?, ?, ?, 2N,	..	..
-8° 4197	11.3	-8 11	8.7	11015, 1076 a, 13423 a, 18981 a	Ma	..	..
-6° 4419	17.6	-6 59	7.3	11015 11167 11476, 11377, 11314, 12037	Ma, Ma, Ma Ma Ma Ma	..	..
-2° 4189	21.7	-2 46	8.1	11008, 11314 a, 11320 a, 20305 a	Ma	..	..
+37° 2741	16.7	+37 13	6.5	5780, 8619, 11487, 3805 a	Ma, Ma, Ma	..	..

Continued on p-142.

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1882phae.proj..890F

No plate found covering region. Sept. 2, 1892. Ex. later.

Defect.
New. Meas. pos. on plate B. 3529.

Measure pos. on Chart Plate B 6085. Chart Plates B 3832, 5333, 6085 & 6656 show no evidence of var.

7664 which were not in trays at time examination was made.
5987, 5952, 5787, 5988, 7635, 7139. These are all the Chart-plates taken of this region up to 8000, excepting 3529, 6103, 7
Plate 8255, var. confirmed on chart plates, B 3400, 3625, 3784, 3803, 4833, 5153, 5418, 5476, 5487, 5649, 5658,
Plate 8255, var.? Chart-plates (see above remark) examined & show no evidence of variability

Kr. gives E as authority. Not in III Cat.
11007, 6 as faint.

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1882phae.proj..890F

17h.

Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Class &c.	A.	bl.
BD. +15° 3137	17h 10.5m	+ 15° 31'	8.5	6118, 3894a, 3828B, 3730B	Ma	..	..
Approx. Pos.	10.9	- 81 34	..	7666, 5339B, 5732B, 5229	Mb	..	..
✓ ..	25.9	- 86 46	..	6819, 6445, 5229, 5732B, 5339B	Md, Md	..	..
24550	57.7	- 24 22	6.1	6605, 3438a, 5774a, 3696a	2	..	..
✓ -12° 4902	56.7	- 12 18	7.5	6516, 2937B, 5441B, 10161, 13135, 13463, 13383	Mb, Ma, Ma, Ma, Ma	..	..
-18° 4489	14.6	- 18 51	7.5	7721, 5450B, 3437B, 6391B	Ma	..	..
Zh.17 2968	46.1	- 60 8	9 1/4	6787, 3902a, 3906B, 20144a	Md?	..	..
✓ Zh.17 3586	55.3	- 56 16	8	6787, 3902a, 3906B, 8321, 11337	Ma, Ma, Ma	..	..
+52° 2078	33.9	+ 52 32	8.0	3729a, 20121a	E	III!	
+51° 2301	59.9	+ 51 27	8.4	3704a, 25266a	E	III!!	
~~+26° 3844~~	~~11.6~~	~~+ 26 54~~	~~3.0~~				
✓ -4° 4382	37.2	- 4 48	6.8	6503, 7791, 11351, 11878, 13377	Ma, Ma?, Ma, Ma	..	..
✓ A 23220	4.2	- 53 15	7 1/2	8619, 9112, 9460, 9447a	Ma, Mb, Ma	..	..
A 23025	5.4	- 87 11	8 1/4	8164, 19036a, 19406a, 22574a	Ma	..	..
Zh.17 1069	17.9	- 58 55	8 1/4	8360, 11336a, 11994a, 21748a	Ma?	..	..
✓ A. 23598	20.3	- 58 57	7 3/4	8360, 23598, 11509, 11517	Mb, Ma, Ma, Ma	..	..
✓ +3° 3340	0.6	+ 3 54	7.7	11389 9550, 12061 9621 9622	Ma, Mb, Ma, Ma, Ma		
~~23416~~	~~12.1~~	~~- 45 32~~	~~7 1/4~~	~~8596~~	~~O~~	..	..
A. 23152	0.7	- 37 10	8 1/4	8294, 9558, 13765, 22853	Ma	..	..
Approx. Pos.	2.	- 43 0	..	7687, 8596a, 9598a, 10347a	2	..	..
Corr. -30° 13953 Zh.17m 470	8.8	- 30 25.6	8	8294, 13766a, 14152a, 20242a	Mb, Mc,	..	..
✓ Approx. Pos.	11.8	- 34 18	..	8294, 21495, 12046, 20242	O, O, O,	..	..
Zh.17 3191	48.9	- 44 30	9	8295, 12222a, 14361a, 19911a	Ma	..	..
✓ -17° 4771	13.7	- 18 0	8.5	9448, 13844, 10126a, 13153a	Ma, Ma	..	..
✓ -6° 4690	54.0	- 6 7	8.2	11351, 13377, 11378a, 13414a	Ma, Ma	..	..
+63° 1338	13.7	+ 63 28	7.5	25621a	E.	III!!	
+50° 2410	26.0	+ 50 15	8.3	3729a, 20121a, 25266a	E.	III.!!	
+57° 1786	35.3	+ 57 48	9.3	23323a	E.	III.!!	
+58° ..	54.9	+ 58 14	..	23323a	E.	III, III! var.?	
-15° 4493	9.0	- 15 47	8.8	10126 3775a, 12062a, 13153a	Ma	..	..

Continued on p. 170.

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1882phae.proj..890F

Very ft. nebs.

plates 8896 examined & no sign of object appears on them. Position cannot be measured.
Plate 7687: Spectrum of nebulosity. Br. line. – Probably defect. Chart plate 5627 + Spectrum

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1882phae.proj..890F

18 h.

Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Clers Sp.	A.	bl.
Approx. Pos.	18h 29m	−18° 30′	var?	6617, 1624B, 1661B, 6105B	Md?	..	..
−18° 4822	30	−18 54	8.8	6617, 1624B, 1661B, 6119B	O?	..	..
25045	24.0	−85 40	8.8	6819, 6445, 5432B,	Ma	..	..
~~26931~~	~~35.1~~	~~−56 30~~	~~8~~	~~6832~~	Mb	..	..
−16° 5074	49.1	−16 39	8.2	7711, 4024B, 2872a, 2946a, 11321, 11487	Mb, Mb, Mc	..	..
−16° 5108	53.9	−16 15	7.8	7711, 4024B, 2872a, 2946a	Ma	..	..
−20° 5380	57.3	−20 41	9.7	7711, 2946a, 5285a, 5440a,	N?	..	..
Fb.18h. 672	11.6	−27 24	7½	7709, 3816a, 3438a, 5184a, 3706a, 18767, 14354	Mb, Ma, Ma	..	..
25367	29.3	−27 25	8¼	7709, 1570a, 1664B, 3816a, 9829, 12047, 13851	Mb, Ma, Ma, Mb	..	..
25639	40.1	−19 43	6.8	2946, 3638, 6580, 7711, 7722, 2872a, 6230a, 6534a, 8254, 8410, 11066, 8708	Mb, Ma, Mc, Mb, Mb, Mb	..	..
−18° 5092	44.2	−18 27	9.4	7722, 2872a, 6230a, 6534a	Ma?	..	..
−19° 5211	47.9	−19 58	7.8	7775, 2872a, 6230a, 6534a	Ma	..	..
26049	56.6	−25 15	8¼	7775, 5224B, 5285a, 5440a, 5276a	Ma	..	..
−15 4923	13.6	−15 39	9.0	7696, 6516, 8761, 8642	N, (2? Nosd) N, N	..	..
−29° 14520	1.3	−29 29	8.3	~~8196~~ 8233, 13434, 18767, 13791, 13823, 13828	Mb, Mc, Mb, Mb, Mc	..	..
+52° 2159	10.0	+52 2	8.4	20122a	E	III!!	
+51° 2344	14.5	+51 11	7.6	20122a	E	III!!	
+32° 3160	33.6	+33 1	9.3	1199a, 1279a, 1490a, 3895a	E	III!!!	
+40° 3449	36.7	+40 14	8.4	7293a, 20593a, 23421a, 25569a	Ea	III!!!	
+36° 3235	38.3	+36 23	9.0	1490a, 1510a, 3895a, 23421a	E	III!!	
+43° 3072	43.4	+43 27	7.0	7293a, 20122a, 20593a, 25569a	E	III!	
−6° 4938	46.6	−6 2	9.2	1168a, 1787a, 3940a, 17034a	E	B	
+33° 8242	48.8	+33 24	9.1	1199a, 1279a, 1510a, 1966a	E	III!!!	
+33° 3252	50.8	+33 45	9.1	1199a, 1279a, 1510a, 1966a	E	III!!	
+39° 3578	52.1	+39 41	9.1	1490a, 4331a, 7293a, 23421a	E	B, III?	
+36° 3336	53.0	+36 50	9.5	1199a, 1279a, 1490a, 1519a	E	III!!	
+38° 3376	54.7	+38 19	9.1	1490a, 4331a, 7293a, 23421a	E	B III?	
+40° 3555	57.1	+40 33	6.9	1490a, 4331a, 7293a, 7311a	E	III!!	
−21° 4916 / ~~+39° 3630~~	8.3	−21 44	6.3	3816a, 8642a, 9656a, 13462a	Kr.	III	

For additional red stars in 18h see p. 146

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1992phao.proj..890F

Plates I 1690, B 3739, 3753, 3994, 4027, 4159, 5769, 5970 & 6133 show no evidence of var.

Defin.: Plates B 3852 & 4161 show stars in this prs. which would evidently pass the spectrum test for defective & class A.

See chart-plate 4057 (B Series).

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1882phae.proj..890F

19h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate No.	Class. Sp.	A.	Cl.
A. 26931	19h 35m.1	−56° 30′	8	6832, a 4092, B 4233, a 4090, 8223	Mb, Mc, Mb5c,	..	..
27370	54.7	−58 44	8.2	6832, a 4092, B 4233, a 4090	Mb	..	..
26463	15.1	−63 33	8.2	6771, a 4090, a 4118, a 5284, 8223	Ma, Ma	..	..
27271	49.8	−29 27	8.5	6999, B 5287, B 5195, B 3709	Md, Md, Md, Md	..	..
+38° 3518	13.7	+38 52	6.7	7311, a 1654, a 1650, a 2330	Ma	..	..
+37 3403	14.1	+37 26	8.0	7311, a 3933, a 2330, a 247	Ma	E	III, var.?
+43 3457	58.5	+43 50	6.8	7326, B 1658, a 2512, a 2276, a 1661	Ma	..	..
..	15	−66 42	..	6783, B 3915, B 3439, a 3907, a 5284	Ma	..	..
26524	16.7	−29 15	7¾	7736, a 4108, B 3661, B 5286, a 5285	Ma, Ma	..	..
+9° 4369	56.3	+9 14	8.7	7552, a 1608, B 1469, a 3922, a 635	N, N. N,	E	IV!!
+4 4325	58.2	+4 27	7.5	7552, a 635, B 1762, B 647	Ma	..	..
−16° 5249	11.7	−16 16	7.4	7773, a 2872, a 6534, 1622, B 8924	Ma	..	..
..	57.7	−41 26	..	6638, a 6669, a 8232, a 9601	Mc	..	..
F.C. 2285	57.7	−41 32	10				
−3° 4706	42.2	−3 42		8410, a 10355, a 20397, a 22023	?	..	..
..	9.2	+25 50		4167, a 21597, a 22830, a 25485		E.	var.
..	16.1	+37 41		2417, a 7311, a 11222, a 25622		E.	IV:, var.?
+39° 3630	0.7	+39 58		4331, a 7293, a 7311		E	III!!
..	7.7	+26 30	..	4167, a 21597, a 22830, a 25485		E	III!
+39° 3668	7.6	+39 42	7.8	4331, a 7293, a 7311		E	III!
+26° 3486	9.1	+26 36	9.5	4167, a 21597, a 22830, a 25485		E	III!!! var.?
Var.	9.6	+49 35	:.	2163, a 2245, a 2320		E.	III!!
+26° 3523	15.8	+27 0	9.4	1809, a 4167, a 21597, a 22830		E.	III!!!
+50° 2771	16.1	+50 41	8.0	2163, a 2286, a 2320, a 2396		E	III!!
..	16.9	+37 41	..	2417, a 7311, a 11222, a 25622		E.	IV, var.
+34 3554	23.4	+34 39	7.7	2230, a 3933, a 25622, a 27913		E	III! var.?
+33 3461	24.0	+34 1	8.9	2230, a 3933, a 25622, a 27913		E	III!!
..	26.6	+26 26	..	1335, a 1573, a 4167, a 25485		E.	III!!
+29° 3623	27.1	+29 29	8.5	1335, a 1573, a 1668, a 4167		E.	III!

For additional stars in 19h. see p. 150.

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1002phae.proj...890F

New.

Two stars superposed.

Announced as Var. by Deichmüller, A. N. 3191.

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1882phae.proj..890F

20h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	El.
Appar. Pos.	20h 0.1m	−55 59′	..	6832, a 4092, B 4233, a 4091,	Q Pz	..	..
27542	# 2.1	−40 59	7 3/4	6638 B 3427, B 4031, B 3868, B 5206	Ma	..	..
✓ 28497	14.9	−43 23	7 1/4	6661, B 3852, B 3954, a 5207, 6661 9821	Ma, Ma, Ma	..	..
28847	57.8	−43 29	7 1/4	6661, a 3935, a 5207, a 3443, B 3869	Ma	..	..
..	9.4	−39 29	..	B 3427, B 4031, a 5196, a 4025,	Md	..	..
..	0.8	−53 53	..	6832, a 4092, B 4233, B 5205,	Ma	..	..
28615	47.0	−58 49	3.7	6687, a 4091, B 3428, B 5277	Q?	..	..
+51° 2787	7.8	+52 5	7.5	7378, a 2471, a 2715, a 2956, a 2514	Ma	..	..
+53° 2374	12.7	+53 51	7.0	7378, 7544, a 2471, a 2715, a 2956,	Ma, Mc,	..	..
• +45° 3185	23.9	+45 21	8.4	7413, a 1434, a 1410, a 1303, a 1661	Ma	..	..
+53° 2435	30.4	+54 6	6.8	7378 a 2715, a 2956, a 2835,	Ma	..	..
• ..	48.3	+24 22	..	7473, a 1270, a 2249, a 2176	Ma	..	..
✓ +7° 4422	11.0 48.	+ 7 22	8.7	7552, a 1608, B 1469, B 1762 11244	Mb, Mb	..	..
✓ +6° 4490	12.1	+ 6 46	7.6	7552, a 1608, B 1469, B 1762, 11244 10158 10154	Mb, Ma, Ma, Ma	..	..
✓ +8° 4420	18.3	+ 8 8	8.6	7552, a 1608, B 1469, B 1762, 10153	Ma, Ma	..	..
• +16° 4369	43.2	+16 24	8.1	7542, 7580, a 4844, a 1621, a 2542	Ma, Mb	..	..
+19° 4535	47.1	+19 20	8.9	7580, a 4844, a 1621, a 2542	Ma	..	..
+14° 4479	51.8	+14 18	7.2	7542, B 1713, B 1682, a 1608	Ma	..	..
+23° 4201	53.8	+23 30	8.0	7497, a 3944, a 1270, a 2249, a 2176	Ma	..	..
• +18° 4680	57.4	+18 37	8.5	7580, B 4407, a 1682, a 2542	Mb	E	III !!!
✓ 27731	9.9	−36 46	6.5	5186 6609 6666 6667 6638 7984 8554 8553 a 5196, ~~a 5675~~, a 4025, B 4031, B 9982	Mb Sc Ma Ma Ma Ma Ma Mb Mb	..	..
✓ A. 28152	28.0	−60 1	7 3/4	8322, 11542 a 8361, a 13776	Ma?, Ma	..	..
✓ Z.C. 1041	33.8	−59 48	8 1/4	8322, 11675 8361, 13776	Ma, Ma	..	..
27541	2.2	−47 28	7 3/4	8528, a 9608 a 12270, a 20453	Mb	..	..
• ..	48.5	+46 57	..	a 4712, a 7642, a 14839, a 23748		E.	var.?
• ..	12.3	+37 34	..	a 132, a 2231, a 2328, a 4666		E.	IV?
..	13.3	+36 36	..	a 132, a 2231, a 2328, a 4666		E.	IV?
..	5.1	+35 31	..	a 132, a 2231, a 2328, a 4666		E.	IV?
+35° 3989	5.2	+35 57	9.5	a 132, a 2231, a 2328, a 4666		E	B, III?

For additional red stars, see p. 154

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1982phae.proj..890F

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1882phae.proj. .890F

21h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class. Sp.	A.	cl.
A. 29362	21h 20.3m	− 36° 53′	7.8	6639, a 5444, a 3935, a 5675,	Ma	..	..
Zlc. 1661	54.3	− 51 26	8½	6677, a 5712, B 5343, a 5278	N?	..	..
+23° 4233	0.8	+ 23 12	7.8	7497, a 1270, a 2232, a 2249	Ma	E.	II or III
+49° 3514	20.5	+ 50 0	8.3	7487, a 4955, B 3987,	Ma	..	..
28978	2.4	− 16 2	7.7	7778, B 1501, B 1476, 10246	Mb, Ma	..	..
✓ 29634	33.5	− 30 45	7¾	8394, 8369, 12245, 12031	Ma?, Mb, Ma, Ma	..	..
+50° 8265	4.0	+ 50 29	9.4	a 4903, a 4955, a 11795, a 13491		E.	B, III?
+53° 2584	8.0	+ 53 28	9.3	a 4903, a 4955, a 11795, a 13491		E	III!!
+53° 2584	12.1	+ 53 34	9.2	a 4903, a 4955, a 11795, a 13491		E.	III!!!
..	14.4	+ 51 49	..	a 4903, a 4955, a 11795, a 13491		E.	IV?
+60° 2213	15.0	+ 60 27	9.0	a 4885, a 23686		E	III!!,
+53° 2626	23.5	+ 53 28	9.4	a 4903, a 4955, a 11795, a 13491		E	B, III?
+47° 8429	26.1	+ 48 7	9.5	a 2215, a 2419, a 7487, a 25984		E.	B, IV?
+53° 2597	27.5	+ 55 27	8.4	a 4885, a 4903, a 11795, a 13492		E.	II, Var.?
+60° 2267	32.5	+ 60 28	9.5	a 4885, a 23686		E.	B, IV?
+54° 2603	38.8	+ 54 22	9.1	a 4885, a 4903, a 11795, a 13492		E	III!!E
..	42.9	+ 52 52	..	a 2215, a 4903, a 11795, a 13492		E	III?
..	43.0	+ 52 5	..	a 2215, a 4903, a 11795, a 13492		E.	IV
..	43.1	+ 57 36	..7.5	4885, 11795		E	III!!
+52° 3036	43.6	+ 52 13	9.3	a 2215, a 4903, a 11795, a 13492		E	IV?
..	46.7	+ 55 52	..	a 4885, a 7535, a 11795, a 13492		E	III!!!
+62° 1999	54.4	+ 62 47	8.8	a 4508, a 5730, a 13536, a 23686		E	III!!
+61° 2235	58.3	+ 61 41	9.3	a 4508, a 5730, a 13536, a 23686		E	B, III?
+45 3395	1.6	+ 46 9	8.4	a 1230, a 5342, a 11484, a 13508		Kr.	III
+46° 3174	2.1	+ 46 34	8.1	a 1230, a 5342, a 11484, a 13508		Kr.	III
+47° 3286	2.5	+ 47 38	7.1	a 5342, a 7642, a 14839, a 23748		Kr.	III
+44° 3744	10.1	+ 45 7	7.6	a 1825, a 2215, a 2419, a 5342		Kr.	III?
+60° 2223	17.6	+ 60 12	7.8	a 4885, a 23686		Kr.	III
+46° 3167	1.5	+ 46 45	8.3	a 1230, a 5342, a 11484, a 13508		Kr.	III

For additional plates in 21h see p. 158

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1882phae.proj..890F

Plate I 5712 shows the k to be of Class A. Plates 3621 & 3847 show no evidence of variation.

Kr. gives E. as authority. Not in III Cat.

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1882phae.proj...ocr

22 h.

Ident.	R.A. 19m	Dec. 19m	Mag.	Plate Nos.	Class Sp.	A.	bl.
BD. +11 4730	22h m 2.1	+ 11° 16'	7.4	6670, 6393B, 3079a, 10345 14427	Ma, Ma, Ma	..	..
+12 4767	4.4	+ 12 28	8.7	6670, 6393B, 3079a, 18251a	Ma	..	..
+14 4772	14.6	+ 15 3	7.0	6670, 6393B, 3079a, 18251a	Ma	..	..
30556	18.2	- 49 21	7.1	6662, 3937B, 5584a, 5713a,	Ma	..	..
30601	20.4	- 37 46	9	6475, 5836a, 5762a, 4042a	Q?	..	..
30723	26.6	- 35 33	7.5	6475, 5836a, 5762a, 4042a	Ma?	..	..
30881	34.9	- 57 33	7.3	6782, 7957 5664a 9790, 5278a, 5723a, 11549 11775 12081	Ma, Ma, Ma Ma Ma Ma	..	..
31066	43.9	- 55 46	7.1	6782, 5664a, 5278a, 5723a, 7960 7959 9790	Ma, Mb, Ma, Ma	..	..
+48° 3643	9.0	+ 48 52	7.4	7535a, 1009B, 1006a, 2162B, 3695a	Ma	E.	II or III
-1° 4284	14.5	- 1 6	8.8	7572B, 1979a, 1856a, 23252a	Ma?	..	..
+50° 3680	17.7	+ 50 58	8.4	7535a, 4521a, 4676a, 1009a	Ma	..	..
+50° 3694	19.6	+ 51 7	7.7	7535a, 4521a, 4676a, 1009a	Ma	..	..
+50° 3706	21.1	+ 50 45	7.0	7535a, 2851a, 4521a, 1696a, 4676a	Ma	..	..
..	~~23.7~~	~~+ 55 46~~	..	7535	O	..	..
-1° 4299	23.7	- 1 17	8.8	7572B, 1979a, 2957a, 1856a	Mb	..	..
-17° 6598	43.5	- 17 31	7.8	7579, 1497B, 1626B, 2940a, 5677a	Ma	..	..
JC 22h 1423	48.9	- 22 59	8½	7573 1497B, 1626B, 6535a, 4034a	Ma	..	..
31184	50.4	- 33 4	8½	6666, 5840a, 8721a, 5445B	Q?	..	..
-15° 6330	56.9	- 15 31	8.0	7579, 4009B, 1744a, 1794B, 1497B 10358 10896 14210	Ma, Ma, Ma, Ma	..	
-20° 6530	57.5	- 19 55	8.8	7579, 4009B, 1744a, 1497B, 1626B	Ma	..	..
A. 31191	51.0	- 57 56	7¼	5664, 6782, 7960, ~~5618a~~, 5602a, 5661a,	Me, Me, Me sd	..	..
+31° 4645	5.8	+ 31 48	7.1	2373, 2434, 808B, 1908a, 1894a, 2434a	Ma, Mb,	E. K. S.	III!!; III, IIIa!!
-13° 6178	19.2	- 13 41	8.3	8339, 11424, 10349 12254 10242 10243	Ma, Ma, Ma Ma Ma Ma		
+18° 5065	49.2	+ 19 4	8.1	8347, 19798a, 23711a	Ma?		
+60° 2432	40.4	+ 61 12	8.9	2435a, 4698a, 4847a, 13697a		E.	IV
+54° 2863	43.7	+ 54 38	9.5	4687a, 4698a, 9647a, 13534a		E	III!!
+50° 3595	6.7	+ 50 22	8.7	2162a, 7535a, 13492a, 23299a		E	III!!
+57° 2487	10.5	+ 57 31	9.1	4676a, 4687a, 9647a, 13695a		E	III!!!
+53 2834	12.5	+ 53 32	9.0	4676a, 4521a, 7535a, 9647a		E	III!!

For additional red plates see 22h. see p. 160

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1882phae.proj..890E

Defect: var.: examined show no evidence of var.
Lines G & h br. to edge of Chart: Am B6992 Spectrum A. Chart Plate B4823, 5695, 6325-6377

1882phae.proj..890F

23h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
31396	23 1.9	−56 41	8	6782, 5664, 5602, 5581	Ma, Ma, Ma, Ma	..	..
31532	10.2	−70 48	8	6774, 5621, 5748, 5578, 6775	Me:d:, Mc:, Mc, Md::	..	..
..	20.5	−69 30	..	6774, 5621, 5748, 5578,	N:2:2:	..	..
+47° 4318	50.3	+48 5	8.4	7055, 2164, 2421, 1920 7234	Mc, Mc, Mc	E	III !!!
+46° 4105	33.2	+46 39	9.2	7234, 1920, 2164, 2421,	Mb	..	..
+46° 4109	33.9	+46 30	9.1	7234, 1920, 2164, 2421	Mb	..	..
+46° 4154	40.2	+46 22	8.3	7234, 1920, 2164, 2421	Ma	..	..
+46° 4187	45.8	+46 57	8.5	7234, 1920, 2164, 2421	Ma	..	..
+49° 4297	54.2	+49 58	7.2	7348, 1920, 2164, 2421	Ma:	..	..
31369	0.0	−23 2	7¼	7579, 6534, 1447, 1626, 5589	Ma, Ma, Ma:, Ma.	..	
H.23 1512	56.5	−65 19	9	6775, 5621, 6587, 5622	Ma	..	..
..	58.0	−33 56	9	6792, 4035, 5585, 6804	Ma	..	..
+42° 4827	59.5	+43 0	8.4	7669, 1814, 1822, 1754 7929	N, N	E	IV.: var.?
31528	9.5	−11 14	6.5	3063, 1744, 1794, 4009,		Sr.	III
31652	16.5	−61 51	8½	8313, 8352, 10431, 12057	Ma		
31960	32.7	−57 1	7¼	8313, 8362, 8584, 10432	Ma, Ma, Ma, Ma		
32058	38.4	−62 17	8	8313, 11550, 11776, 10431	Ma, Ma, Ma		
32072	39.0	−55 0	7½	8313, 8323, 10408, 10432	Mb, Ma, Ma, Ma		
32075	39.1	−61 42	8½	8313, 10431, 12057, 19969	Ma		
32178	44.7	−61 42	8	8313, 8323, 8584, 10431 11776 12033	Mb, Ma, Mb, Ma, Ma, Ma		
32334	53.9	−57 8	7.1	8313, 12033, 12051, 14382	Mc:, Mb, Mb.		
..	7.0	+52 21	9.1	6721 13502 23307, 25940		E	III !!!
+58° 2583	18.0	+58 46	8.8	4825, 13843, 14272, 14261		E	III !!!
+65° 1884	20.2	+65 58	9.3	2435, 4847, 4812, 4940		E	B, III:
+60° 2537	20.7	+60 49	9.2	2435, 4825, 13696, 13843		E	III !!
+58° 2602	25.5	+58 51	8.4	4825, 13696, 13843, 14272		E	III !!
+57° 2760	30.3	+58 1	9.5	4825, 13696, 13843, 14272		E	B, III:
+45° 4285	32.8	+45 33	8.5	19619, 23305, 23359, 25940		E	III !!
+46° 4188	45.9	+46 57	8.6	6732, 19619, 23971, 25982		E	III !!!

For additional plates in 23h. see p. 164

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1882phae.proj..890F

Plate Examination of Plates B 4020, 5595, & 5705 show no evidence of var.

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1882phae.proj..800F

Continued from p. 30

Additional Red Stars. 0 h.

	Ident.	R.A. h. m.	Dec.	Mag.	Plate Nos.	Class Sp.	A.	Cl.
	+33° 44	0 21.4	+33 38	7.2	7928, 7654a, 28175a	Ma	..	..
	+39° 32	8.8	+39 25	8.5	7919, 7667a, 7929a	Ma	..	..
✓	A.G.C. 140	9.4	−63 20	7.0	8316, 8817, 21854, 22068a	Ma, Ma	..	..
✓	" 225	14.3	−47 4	7¼	8399, 10277, 20257, 23453a	Ma, Ma, Ma,	..	..
	+36° 69	24.2	+36 56	8.9	7919a, 7654	Ma	..	..
✓	" 642	37.8	−36 34	7¼	8399, 10584, 12198a, 15112a	Ma, Ma	..	..
	" 719	42.1	−58 36	8	8317, 11768a, 11991a, 23767a	Ma	..	..
	+23° 126	49.9	+24 1	6.8	8374, 534a, 26637a	Ma	..	..
✓	" 859	51.4	−26 6	8¼	8324, 12288, 12401, 12294a	Ma, Ma, Ma	..	..
✓	−20° 174	53.8	−20 10	7.0	8324, 10628, 23756a, 23814a	Ma, Ma	..	..
✓	+69° 50	46.9	+69 24	7.5	8213, 8402, 12166, 12010, 12006	Mb, Ma, Mb, Ma, Mb, Ma, Ma, Mb,		
	"	16.8	+58 36	..	7661a, 7702a, 8214a	E	B, III:, Irr:, IV	
✓	+47° 113	23.5	+47 51	6.8	11255, 13504, 19647a, 20069a	Ma, Ma	E	III :!
	+48° 183	31.2	+48 24	8.2	11255, 13504, 16113a, 19647a	Mb5e, Me	E.	III :!!
	+52° 241	57.3	+52 36	7.5	4700a, 5288a, 5403a, 7745a		E.	III :!
	+56° 19	7.5	+56 40	7.8	1807a, 1820a, 7661a, 7702a		Kr.	III
	+37° 34	11.9	+38 8	4.5	7919a		Kr.	?
	+62° 125	33.2	+62 18	8.7	3265a, 7713a		Kr.	III
	−1° 114	47.9	−1 41	5.2	12247B, 23757B, 24329B, 24447B		Kr.	III ?
	+62° 174	51.9	+62 17	9.1	3265a, 4214a		Kr.	III
	+55° 224	54.9	+56 4	9.1	1807a, 1820a, 19299a, 19337a		Kr.	III
	+40°148 ~~+60 211~~	~~+17 135~~ 37.2	+40 43	Neb.	10117, 7553a, 8849a, 19644a	Neb.	Kr.	B
	+68° 34	28.6	+68 53	8.5	10402a, 2708a, 3073a, 7713a	Ma?	..	..
	−11° 6199	1.1	−11 20	8.0	10248, 10110, 10364, 10413	Ma, Mb, Ma, Mb,	..	..
✓	A.G.C. 64	4.8	−3 7	7.5	8646, 10248, 10412, 10574a	Mb?, Ma, Ma	..	..
✓	−19° 7	5.9	−19 8	8.0	8654, 10109, 10414, 10575, 12365, 14211	Mb, Mb, Mb, Mb, Mb, Ma	..	..
	A.G.C. 683	40.3	−5 11	6.5	8616, 10416a, 19958a, 21371a	Ma?	..	..
✓	" 927	55.6	−2 12	7.4	8616, 10152, 10384, 10417, 10418	Mb, Ma, Ma, Mb, Mb	..	..
	−7° 3	3.4	−7 21	7.8	10248, 14377a, 14671a, 14807a	Ma	..	..

Continued on p. 82

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1882phae.proj..890F

K gives E. as authority. Not in III Cat.

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Net. or lel. Cent. Sp.

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III Cat. Verifications to be made from Plates.

~~h. m. ° ' 1 57.7 +41 51 = D.C. 11142 11143. Enter remark on which of the two is a III Star.~~

~~6 42.5 -20 42 Assumed to be -21° 1585 Look this up.~~

~~7 36.5 +20 43 Look up on Plate and see if +20° 1882 is same star.~~ (7 36.8 +20 41

18 2.8 -21 16 (Measure pos. in I 1690. Pos. of Br. line indicates Pl. Neb.

18 46.1 +37 38 (Look up on another Plate. Br. line?

18 58.5 -48 50 Measure pos. on L. Plate 3758 (Lewis B.).

19 24.8 +82 45 Var.? Look up on Chart Plates. L. Plate 3977 examined.

19 41.3 +28 57 Var.? Look up on L. Plate.

19 51.8 -42 7 Plate 3247 Var. Measure on L Plate.

20 0.5 -52 52 Var? Look up on H and L Plate.

22 23.4 +55 50 Measure Pos. on L Plate 1895.

Notes crossed off, copied against respective stars in Books 61 and 62.

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Continued from p. 78.

Additional Red Stars in 0^{h}.

	Ident.	R.A.	Dec.	Magn.	Plate Nos.	Stellar Sp.	A.	Cl.
	A.G.	157 0^{h} $10.^{m}4$	$-32°$ 36	8	10582, 15112	Md	..	..
✓	"	258 0 16.3	− 36 22	7.5	10582, 10584, 12332, 15112	Ma Ma	..	..
✓	B.D.	−7° 48 0 17.9	− 7 1	7.6	10574, 14426, 14083, 14807	Ma, Ma	..	..
✓	A.G.	367 0 22.3	− 34 26	8	10582, 10584, 12198, 15112	Ma, Ma, Ma	..	..
	B.D.	+44° 128 0 32.1	+ 45 3	8.5	11255, 8849, 16113, 19647	Mb Ma	..	..
✓	"	+44° 185 0 47.0	+ 44 36	8.2	11255, 8849, 16113, 19647	Ma, Ma	..	..
	"	+5° 38 0 15.9	+ 5 24	9.4	.. 3265, 7661, 7702, 8214	..	E.	III.!!!(:) var.?
	"	+61° 112 0 27.4	+ 61 18	9.5	.. 3265, 7661, 7702, 8214	..	E	III, var.?
	"	+62° 161 0 45.5	+ 62 23	9.4	.. 3265, 4214	..	E	III.!!!, var.
	"	+61° 204 0 59.2	+ 61 50	9.5	.. 4214, 19265, 19337	..	E	B. III.!!(:) var.?
	"	−7° 57 0 22.0	− 7 9	9.1	10359, 14377, 14083, 14807	Md:, Me	..	..
✓	"	+2° 97 0 39.8	+ 2 39	7.7	10418, 14206, 14763, 14899	Ma, Ma	..	..
	"	+2° 114 0 45.2	+ 2 50	8.5	10418, 14206, 14763, 14899	Ma	..	..
	"	−17° 159 0 50.2	− 17 30	8.0	10421, 17406, 23756, 23814	Ma	..	..
	"	−3° 136 0 54.0	− 2 59	7.8	10417, 23757, 23768, 24447	Ma	..	..
✓	"	−12° 183 0 55.6	− 12 43	8.1	10628, 10420, 17406	Ma, Ma	..	..
		+9° 44						
	"	~~2° 185~~ 0 21.7	+ 9 36	8.6	12042	Ma,	..	..
		+12° 95 0 43.7	+ 12 20	8.3	12042, 10419	Ma	..	..
	A.G.	28 0 2.7	− 66 30	7	12066, 11715	Ma	..	..
	Z.	0^{h} 147 0 6.6	− 50 13	8	11545, 10351, 14414, 23453	Ma	..	..
	"	" 205 0 8.8	− 77 18	8½	12075, 11705, 14357	Ma	..	..
	A.G.	147 0 9.5	− 85 33	6.4	12012, 15165	Ma?	..	..
	"	164 0 10.7	− 46 48	8½	12225, 23453, 23747, 23761	Ma	..	..
	"	231 0 14.6	− 50 59	7¼	11545, 10351, 14414, 14881	Ma	..	..
	"	299 0 18.3	− 51 7	7.5	12225, 10351, 14414, 14881	Ma	..	..
	"	306 0 18.8	− 49 55	8	12283, 10351, 14414, 14881	Ma	..	..
	"	488 0 29.1	− 32 51	7¾	12198, 10582, 15112, 23766	Ma	..	..
	"	969 0 58.1	− 72 5	8	11723, 11705, 11731, 12082	Ma?	..	..
	"	973 0 58.7	− 56 36	7¾	12636, 10622, 14383, 17627	Ma	..	..
	"	994 0 59.9	− 71 23	neb.	12082, 11705, 11731, 19960	Cont.	..	..

Continued in Book 63a p. 150.

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1882phae.proj..890F

Plate 10582; $G_J = 1.0$; h 8 = 17

Plate 10359; var.? Very faint. Plates I 1994, 4294, 2730, 2682, 9445, 7416, 7477, 354, 9526, 9487, 9492, 9465, B 2215, 2204, 6708, 8482 & 10566 examined & show slight evidence of var., but as the range crowded amount to only about 0.4 or 0.5 magnitudes the plates have not been measured. Faint on I 7416, bright on B 10566.

Plate 12082, cl. or var.?

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1882phae.proj. .890F

(continued from p. 34)

Additional Red Stars in 2 hours.

	Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class Sp.	A.	Cl.
	+56° 551	2 13.9	+56° 42	8.2	a 2522, a 2790, a 6108, a 9411		Kr.	III
	+57 550	14.6	+57 24	8.5	a 2522, a 2790, a 6108, a 9411		Kr	III
	+56° 609	18.2	+ 57 0	8.4	a 2522, a 2790, 2986, a 6108		Kr.	III'
✓	−17° 384	0.1	− 17 46	7.3	8602, 10433, 12240, 12366	Lo−M, Ma, Ma, Ma	..	..
✓	AG. 2110	2.0	− 40 1	7¼	8634, 12229, 12284, 12394	Ma?, Ma, Ma, Ma	..	..
	+6° 344	13.1	+ 6 15	8.3	10368, a 10381, a 10382, a 20035	Ma	..	..
	+3 327	17.8	+ 3 20	8.3	10368, a 10382, a 12387, a 20035	Ma?	..	..
	AG. 2463	19.0	− 38 2	6.6	8634, a 10586, a 12285, a 20247	Lo−M	..	..
	+45 624	27.0	+45 13	9.1	a 19650, a 24140, a 25946, a 26324		E.	III!!, var.?
	..	37.0	+57 28	..	a 2437, a 2460, a 2507, a 2523		E	III
	+57 639	41.5 H	+ 57 58 50	9.0	a 645, a 2437, a 2460, a 3046		E	III! var.?
	+54 622	49.6	+ 54 14	9.2	a 2388, a 2437, a 2460, a 2507		E	B. var.
	+43 614	53.6	+ 43 43	9.3	a 19656, a 24140, a 26324, a 29102		E	III!!!
✓	−16° 374	2.2	− 16 11	7.8	10433, 12342, 12393, 12376	Ma, Ma, Ma,	..	..
✓	−18° 372	4.0	− 17 52	8.2	10434, 12240, 12366, a 10433	Ma, Ma, Ma	..	..
	A. 2208	6.8	− 18 13	6.7	10433, a 2166, a 10434, a 12248	Ma?	..	..
	+11° 309	11.0	+ 11 56	8.0	10381, 10368	Ma	..	..
	−14° 423	13.4	− 14 35	7.2	10392, 12393, a 10384, a 21944	Mb, Ma,	..	..
✓	A. 2560	23.7	− 30 53	8¼	10427, 12402, a 10585, a 12242	Ma, Ma?	..	..
	" 2592	25.0	− 24 33	7.5	10426, a 10427, a 12242, a 14876	Ma 5-b	..	..
✓	−21° 470	34.1	− 21 28	8.0	10426, 12367, a 12626, a 14876	Ma, Ma	..	..
	A. 2805	34.5	− 26 10	7¼	10426, a 10427, a 12242, a 14876	Mb	..	..
	" 2807	34.5	− 31 1	7¾	10427, a 10585, a 12242, a 12402	Ma	..	..
✓	" 2858	37.4	− 30 30	7¼	10427, 12258, a 10585, a 12402	Ma, Ma	..	..
	−7° 481	39.2	− 6 50	8.1	10410, a 10405, a 10409, a 12225	Mb sc	..	..
	−4° 476	44.0	− 4 39	7.0	10410, a 10405, a 10409, a 12225	Ma	..	..
	+1° 520	54.2	+ 1 15	8.0	10400, a 10311, a 12226, a 24375	Ma	..	..
	−6° 501	28.9	− 6 27	8.2	12388, a 10405, a 10409, a 12225	Ma	..	..
	AG. 2863	37.2	− 38 6	8¼	12035, a 6885, a 23779, a 24229	Ma	..	..

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Kr. gives E as authority. Not in III Cat.

" " " " " "

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2 h.

Ident.	R. A. 1900 h m.	Dec. 1900	Magn.	Plate Nos.	Clare Sp.	A.	El.
+1° 474	2 38.1	+1° 20′	8.5	12387, 10311, 24375	Ma	..	..
-13° 516	2 39.4	-12 54	7.3	12367, 10415, 18191, 20586	Ma	..	..
-15° 491	2 42.1	-15 42	7.5	12367, 10415, 12626, 18191	Ma	..	..
Z.C. 1164	2 42.8	-39 19	9	12035, 6885, 12035, 24229	Ma	..	..
-19° 533	2 44.3	-19 27	8.3	12626, 12367, 20532, 24597	Ma	..	..
Agl. 3043	2 46.4	-58 14	8.5	12035, 6885, 6971, 12067	Ma	..	..
" 3044	2 46.6	-53 11	8 1/4	12035, 6971, 12359, 20262	Mc	..	..
-21° 535	2 56.2	-21 5	7.3	12368, 12626, 20532, 24597	Ma	..	..
-20° 575	2 58.8	-20 37	8.4	12368, 12626, 20532, 24597	Ma	..	..
+8° 462	2 59.3	+8 43	8.2	12026, 7104, 7132, 12005	Ma	..	..
-32° 789	2 0.6	-32 17	9	12257, 6828, 15113, 23790	Ma	..	..
A 2423	2 17.2	-58 18	8.8	12034, 6885, 23779, 24229	Ma	..	..
" 2510	2 20.7	-54 49	7.2	12359, 10352, 12646, 20262	Ma	..	..
" 2830	2 35.6	-37 19	8.2	12277, 10586, 14689	Ma	..	..
" 2854	2 37.0	-41 44	7.5	12267, 22165, 23801, 24090	Ma	..	..
" 2875	2 38.1	-47 34	8	12358, 12054, 12267, 12414	Ma	..	..
" 2879	2 38.4	-42 58	7.8	12267, 22165, 23801, 24090	Ma?	..	..
" 2947	2 41.5	-49 6	7.8	12414, 12054, 12359, 20262	Ma	..	..
Z.C. 2h 88	2 41.2	-49 35	9	12053, 10352, 12358, 12646	Ma	..	..
+31° 466	2 36.2	+31 59	9.2	.. 21690, 25992, 26505 ..		E.	III !!

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1882phae.proj..890F

continued from p. 38.

4h.

Ident.	R.A. h. 1900 m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class	Sp.	A.	cl.
−21° 904	H 27.6	−20° 55′	6.5	12406, 10604, 12407, 12628	Ma		..	..
Chandler's Pos.	H 30.4	+65 57	..	12344 12261 12362 12447	Ma, ?, ?, ?		..	..
+6° 730	H 33.4	+6 38	8.5	12260	Ma		..	..
Agb. 5291	H 37.3	−24 10	7.5	12627, 17402, 23810	Ma		..	..
−21° 1051	H 58.2	−21 24	8.2	12628, 12370, 17402, 22310	Ma		..	..
Agb. 4800	H 12.6	−53 15	8¾	12722, 7014, 14920	Ma		..	..
" 4818	H 13.6	−55 53	8.5	12036, 12722, 14920, 20264	Ma		..	..
" 4915	H 17.3	−76 3	8	12077, 14359, 15162	Ma?		..	..
" 4933	H 19.3	−59 24	8.5	12036, 24125, 24142, 20264	Ma		..	..
" 4975	H 22.3	−40 3	7.5	12287, 12655, 20647, 20784	Ma		..	..
" 5026	H 24.4	−55 26	7.8	12036, 12722, 15154, 20264	Ma		..	..
" 5133	H 29.2	−40 25	8.5	12287, 12655, 20647, 20784	Ma		..	..
Zb. 4h 1100	H 33.1	−59 22	8.5	12760, 15154, 15186, 20264	Ma		..	..
A. 5227	H 33.4	−35 49	7	12287, 12297, 12655, 14649	Ma		..	..
" 5374	H 41.1	−52 44	7.2	12760, 12640, 24588	Ma		..	..
" 5475	H 45.5	−59 18	6.8	12761, 15154, 15186, 20264	Ma		..	..
" 5654	H 53.5	−43 36	8	12421, 12639, 18433, 20647	Ma		..	..
+40° 939	H 14.5	+40 56	9.0	.. 2313, 24133, 24524, 26325 ..	E.	III !!		
+37° 923	H 22.3	+37 25	9.4	.. 3267, 24133, 26092, 26325 ..	E.	III !!		
..	H 22.9	+39 38	..	.. 3267, 24133, 26092, 26325 ..	E.	IV !		
+38° 899	H 22.9	+38 34	8.0	.. 3267, 24133, 26092, 26325 ..	E.	III !!		
+39° 1007	H 23.5	+39 20	8.6	.. 3267, 24133, 26092, 26325 ..	E.	III !!!		
+39° 1019	H 26.3	+40 2′	9.0	.. 3267, 24133, 26092, 26325 ..	E.	III !!		
+40° 1019	H 33.5	+40 39	8.7	.. 2536, 3267, 26092, 26325 ..	E.	III !!		
+38° 924	H 34.9	+38 33	8.3	.. 2536, 3267, 26092, 26325 ..	E.	III !!!		
+37° 958	H 35.7	+37 40	9.2	.. 2536, 3267, 26092, 26325 ..	E.	III !!		
+39° 1105	H 48.2	+39 45	8.4	.. 2536, 3267, 26092, 26325 ..	E.	III !!		
+24° 620	H 0.1	+24 28	9.0	.. 21697, 21710, 26123, 26299 ..	E.	III !		
+37° 914	H 16.2	+37 44	7.8	.. 2313, 2536, 24133, 26092 ..	E.	III !		

continued on p. 98.

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Continued from p. 40.

Additional Red Stars in 5 hours.

Ident.	R. A. 1900 h. m.	Dec. 1900	Magn.	Plate Nos.	Class	Spectrum	A.	bl.
+39° 1235	5 10.2	+ 39° 56′	9.5	472, 3030, 10164, 26326			E.	B III? or IV?
−2° 1448	5 56.8	− 2 21	8.0	12754, 14699, 15125, 15137	Me	5d	..	..
−18° 1048	5 13.7	− 18 43	8.0	10762, 18522, 22130	Ma		..	..
A. 6994	5 51.7	− 28 58	8	10437, 12398, 12423, 12664	Ma		..	..
−0° 895	5 10.5	− 0 4	9.3	12227, 11816, 11979, 14699	2	N?	..	..
−22° 1070	5 14.5	− 22 19	8.7	12370, 17402	2		..	..
Afb. 6127	5 15.4	− 25 13	7.5	10588, 12398, 12370, 12663	Mb,	Mb, Mb, Ma.	..	..
−12° 1269	5 42.6	− 12 51	7.5	12629, 18414, 20800, 20866	Mb		..	..
−21° 1262	5 42.9	− 21 35	7.9	12629, 10588, 12632, 17395	Ma,	Ma 5-b, Ma..	..	..
~~Computed Pos.~~								
+1° 1007	5 19.9	+ 1 5	8.2	12686, 12391, 7718, 14632	Ma,	Ma	..	..
−17° 1263	5 46.3	− 17 9	9.0	12632, 12629, 18522, 22311	Ma		..	..
−21° 1284	5 47.4	− 21 39	8.4	12629, 17395, 18442, 22311	Ma		..	..
A. 5892	5 3.5	− 65 9	8.2	12087, 12078, 12762, 15186	Mb		..	..
−5° 1201	5 9.4	− 5 23	8.5	12769, 2316, 10414, 19387	Ma		..	..
A. 6175	5 17.3	− 47 9	9	12421, 12756, 18482	Ma		..	..
−24° 3058	5 20.0	− 24 38	neb.	12663, 12370, 17402, 18442	Cont.		..	..
A 6390	5 25.6	− 31 2	8	12663, 14690, 24442, 24472	Ma		..	..
" 6452	5 28.2	− 62 0	8.2	12087, 12762, 15186	Ma		..	..
" 6477	5 29.1	− 66 46	7.8	12087, 12078, 12108, 17101	2		..	..
+0° 1177	5 41.6	+ 0 2	neb.	12754, 12681, 12686, 21666	Cont.		..	..
A. 6771	5 41.9	− 27 26	8.8	12423, 12398, 12664	Ma		..	..
" 6831	5 44.4	− 41 37	7.2	12665, 14691, 18434, 20649	Ma		..	..
−6° 1359	5 52.8	− 6 5	6.5	12754, 12754, 18394, 21930	Ma		..	..
−5° 1487	5 59.1	− 5 58	8.5	12754, 3412, 12682, 20894	Ma		..	..
+11° 898	5 33.9	+ 11 28	8.0	14698, 2263, 15136, 21667	Ma		..	..
+20° 982	5 26.7	+ 20 51	8.8	.. 2317, 2538, 2819, 3257	..		E.	III !!
+21° 912	5 32.1	+ 21 50	9.0	.. 2317, 2538, 2819, 3257	..		E.	III !!
+28° 847	5 34.7	+ 28 3	9.5	.. 5507, 5542, 5557, 5571	..		E.	IV ?

Continued in Book 3, p. 160

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IV.?

See remark on Plate 12754, on Card and in Remarks.

Plate 12754, cl. or neb. ?

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 (continued from p. 42.

Additional Red Stars. 6h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class	Spectrum.	A.	Rel.
+44° 1556	6h 49.7	+44 48	8.3	a 3274, a 24537, a 26232,			E	III !!
+51° 1272	55.1	+51 34	8.5	a 4836, a 19466,			E.	III
+45° 1379	56.3	+45 3	9.0	a 3274, a 3396, a 24961,			E.	III !!!
+53° 1100	58.1	+53 46	8.8	a 4836, a 19466,			E	III !!!
+45° 1387	58.8	+44 48	8.2	a 26232, a 28470,			E	III !!
-22° 1330	5.6	-22 46	6.5	a 2438, a 12466, a 22527, a 24622,			Kr.	Be
+35° 1577	7.2	+35 7	9.0	a 3258, a 12218, a 12377, a 26093,			Kr.	III
+37 1565	35.6	+37 12	7.8	a 12377, a 26093,			Kr.	III
+37° 1615	49.3	+37 31	8.7	a 12377, a 26093,			Kr.	III
+31° 1473	56.2	+31 31	7.8	a 21684			Kr.	III
+31° 1487	59.4	+31 34	6.7	a 21684			Kr.	III
+34° 1272	2.4	+34 55	7.7	10139, a 3258, a 12218	Ma		..	..
√ A.G. 7259	0.9	-60 6	7.0	9064, 12087, 12762, a 15147	Mb, Ma, Ma		..	..
√ " 7794	19.8	-56 19	7.2	9064, 12650, 13007, a 18484	Ma:, Ma, Ma		..	..
-10° 1774	52.4	-10 41	7.2	9043, a 692, a 836, a 2441,	A2,		..	..
Approx. Pos.	0.0	-88 20	..	8159, 8184, a 15145, a 15146	Ma, Mb		..	..
√ A.G. 7696	17.1	-30 36	7.8	8999, 10437, 12656, a 10682	Ma:, Ma, Ma		..	..
√ -26° 3056	25.1	-26 3	8.1	10437, 12466, 12656, a 2438	Ma, Ma		..	..
-5° 1499	1.1	-5 52	7.0	12754, a 3412, a 12682, a 15137	Ma		..	..
-22° 1514	40.0	-22 21	8.4	12631, a 2439, a 3193, a 20535	Ma		..	..
-20° 1660	54.9	-21 1	8.5	12631, a 3193, a 20535, a 22542	Ma		..	..
A. 7523	9.9	-65 17	7.5	12762, a 12108, a 15147, a 18485	Ma		..	..
" 7766	19.0	-61 17	7.2	12762, a 15147, a 15176	Ma		..	..
" 7755	19.2	-33 34	7	12657, a 10682, a 12423, a 18385	Ma		..	..
-25° 3194	20.4	-25 26	8.4	12466, a 20535, a 22527, a 24622	Ma		..	..
-20° 1386	22.0	-20 7	7.8	12630, a 10763, a 12466, a 24622	Ma		..	..
A. 7869	22.4	-63 38	6.5	12762, a 15147, a 15176	Ma		..	..
" 7848	22.5	-26 3	7.5	12656, a 2389, a 2439, a 10437	Ma		..	..
" 8004	28.2	-36 52	6.9	12657, a 20527, a 20534	Ma		..	..
" 8307	39.1	-26 1	8.5	12656, a 681, a 20582, a 24433	Ma		..	..

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Ku. gives Pickering as authority. Not in III Cat.

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Additional Red Stars, 7h.

Ident.	R.A. h. m.	Dec.	Magn.	Plate Nos.	Class Sp.	A.	Cl.
+22° 1680	7 20.2	+22 5	9.2	8072, 2475, 2722, 20211	a a a N	..	..
+5° 1652	20.2	+5 3	8.0	11818, 3031, 12755, 15139	a B B Ma	..	..
+11° 1593	23.8	+11 14	8.3	12089, 8221, 8261, 10429	a a a Ma	..	..
+14° 1699	28.7	+14 19	8.0	10734, 8261, 11957, 12025	a a a Ma	..	..
A. 10206	43.6	−66 58	8	10206, 15223, 15274, 19155	Ma a Ma a Mb ?	..	..
" 10447	52.4	−30 1	6.8	8912, 12658, 12788, 15599	Ma Mb, Mb, Mb,	..	..
" 10480	53.0	−61 36	7 3/4	8913, 12764, 12763, 15516	Ma Ma Mb, Ma	..	..
−21° 2115	42.1	−21 17	8.0	10866, 2478, 15263, 18301	a Ma a Ma	..	..
+4° 1599	3.4	+4 20	7.8	12677, 12755, 15243, 19832	Ma a Ma a Ma	..	..
+4° 1635	9.5	+4 20	8.5	12677, 12755, 15243, 19832	Ma a Ma a Ma	..	..
Agl. 9174	9.9	−25 56	7 3/4	12631, 12666, 20856, 22542	Ma a a Mb, Ma	..	..
+0° 1869	10.2	+0 48	8.3	12677, 15243, 20487, 21921	Ma a Ma a Ma	..	..
Agl. 9200	10.8	−22 35	8.0	12631, 18301, 20767, 22542	Ma a Ma a Ma	..	..
" 8981	2.5	−48 55	8.5	12641, 10615, 12780, 20858	Ma a Ma a Ma	..	..
" 9062	5.1	−58 13	8.5	13007, 12757, 15176, 18488	Mc a Ma a Ma	..	..
" 9138	8.7	−31 48	7.8	12666, 12662, 18926, 24475	Ma a Ma a Ma	..	..
" 9188	9.9	−50 8	7.5	12641, 12780, 20786, 20858	Ma a Ma a Ma	..	..
+3° 1658	16.8	+3 19	8.5	12755, 15243, 20487, 21922	Ma a Ma a Ma	..	..
A. 9378	16.9	−25 43	6.7	12666, 18301, 20856, 22542	Ma a Ma a Ma	..	..
+7° 1705	17.4	+7 41	8.5	12671, 3196, 11792, 15189	Ma a a Ma	..	..
A. 9395	17.5	−24 3	8	12666, 18301, 20856, 22542	Ma a Ma a Ma	..	..
+3° 1683	21.4	+3 15	8.8	12755, 15243, 20487, 21922	Ma a Ma a Ma	..	..
+3° 1688	22.0	+3 46	8.5	12755, 15243, 20487, 21922	Ma a Ma a Ma	..	..
−12° 1978	22.7	−12 9	8.5	12673, 3194, 3241, 20801	Ma a a Ma	..	..
A. 9712	28.3	−54 11	6.7	12764, 10615, 10656, 24589	Ma a Ma a Ma	..	..
" 9724	29.1	−31 15	8.2	12666, 15219, 18926, 24475	Ma a Ma a Ma	..	..
" 9731	29.2	−56 25	8	12764, 10615, 10656, 12764	Ma a Ma a Ma	..	..
−1° 1780	32.5	−1 7	8.5	12772, 11995, 12774, 20459	Ma a Ma a Ma	..	..
A. 9821	32.7	−31 6	8	12666, 12658, 15219, 20856	Ma a Ma a Ma	..	..
+0° 2029	33.8	−0 2	7.7	12772, 11995, 12774, 21932	Ma a a Ma	..	..

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3 h.

Ident.	R.A.	Dec.	magn.	Plate Nos.	class	Sp.	A.	Cl.
−2°703	3h 38m.6	− 2° 23′	7.8	12679, 10378, 12675, 24332		Ma	..	..
−7° 731	59.5	− 7 48	8.4	12679, 10595, 12750, 22319		Ma	..	..
+36° 638	2.4	+36 40	8.0	12259, 12268		Ma	..	..
A. 3390	4.3	−26 50	8.8	12353, 20248, 23780		Mb	..	..
N.G.C. 1261	9.5	−55 36	·	11992, 6971, 12035, 15203		Cont.	..	..
Zc. 3h 608	21.7	−50 22	8	12647, 12420, 20263, 23791		Ma	..	..
A. 3836	26.0	−58 14	7.2	12067, 11992, 15203, 24208		Ma	..	..
" 3939	30.1	−66 38	8.2	12085, 12086, 15174, 15175		Ma	..	..
" 4016	34.1	−31 38	7.5	12353, 10428, 12259, 24455		Ma	..	..
" 4152	40.9	−42 12	7.5	12268, 12637		Ma	..	..
−1° 546	46.4	− 1 41	9.0	12675, 22153, 23816, 24332		Mc	..	..
Zc. 3h 1476	49.3	−46 52	8½	12721, 12647		Ma	..	..
A. 4419	53.7	−53 14	8.8	12036, 7014, 12426, 14920		Ma	..	..
Zc. 3h 1663	54.7	−58 47	8.5	12036, 11992, 20264		Ma	..	..
A. 4513	58.1	−66 10	7.5	12085, 12086, 15175, 20430		Ma	..	..
A. 4521	58.5	−62 11	7	12761, 23802, 24125, 24142		Ma	..	..
" 8579	12.0	−76 5	8.8	14358, 15172, 17047, 20539		Ma?	..	..
+31° 580	13.9	+31 39	8.9	.. 20039, 21690, 21691, 26588 ..			E.	III !!!
+31° 588	16.4	+31 53	7.6	.. 20039, 21690, 21691, 26588 ..			E.	III !!
+38° 832	55.0	+38 23	7.3	.. 2313, 24133, 24824, 28553 ..			E.	III ?

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Plate 11992, cl. a neb. ?

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continued from p. 88.

See Pk. 3, p. 86

H h

Ident.	R. A. 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
~~+38° 947~~	~~4h 47m 35s~~	~~+38° 34' 92~~	..	..		E.	III!
+51 1031	4 59.9	+51 59 8.8	..	..		E.	III!

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Stars Suspected by Espin to be of the III Type, and

See Astronomische Nachrichten, Vol. 134 No. 3200 p. 125,

Ident.	R. A. 1900	Dec. 1900	Magn.
+56° 694	2 35.8	+56 45	9.4
+54° 648	3 5.3	+54 58	8.0
+57° 715	3 13.1	+57 31	8.0
+57° 718	3 14.5	+57 45	8.8
+54° 686	3 22.8	+54 34	9.5
+56° 875	3 56.6	+56 28	8.0
+56° 904	4 12.9	+56 28	8.0
+56° 985	4 47.2	+56 36	8.9
+56° 1050	5 34.6	+56 33	6.5
+56° 1062	5 40.6	+56 54	8.7
+43° 1359	5 42.4	+43 40	8.2
+56° 1083	5 52.0	+56 54	7.5
+44° 1359	5 58.5	+44 42	8.0
+43° 1474	6 4.3	+43 50	7.0
+45° 1289	6 14.4	+45 40	7.0
+54° 1026	6 17.7	+54 35	9.0
+55° 1084	6 22.4	+55 49	9.2
+46° 1149	6 22.6	+46 46	6.0
+47° 1310	6 25.4	+47 1	6.8
+50° 1339	6 34.3	+50 25	8.6
+57° 1001	6 35.9	+57 1	7.2
+55 1115	6 36.6	+55 40	8.1
*+53° 1058	6 37.2	+53 11	7.3
+44° 1525	6 37.5	+44 37	7.0
+49° 1546	6 40.1	+49 1	9.1
+54° 1079	6 44.4	+54 8	8.5
+45° 1394	7 3.6	+45 25	7.5
+59° 1071	7 11.2	+59 26	7.0

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not in the Catalogue of III Stars.

*This Bd. No. is in Error against the 1900 Pos. $6^h\ 35^m.6 + 57°\ 14'$

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+52° 1205	7	17.1	+52	5	6.1
+57° 1076	7	21.0	+57	52	8.4
+56° 1227	7	28.8	+56	0	6.0
+57° 1098	7	32.6	+57	18	6.3
+55° 1226	7	43.4	+55	0	7.1
+59° 1113	7	43.6	+59	45	7.5
+47° 1498	7	47.2	+47	38	6.1
+47° 1499	7	47.5	+47	49	5.5
+47° 1553	8	9.1	+47	6	7.0
+56° 1287	8	11.1	+56	34	7.0
+48° 1635	8	15.1	+48	40	8.3
+53° 1369	8	46.4	+53	6	8.8
+49° 1785	8	50.4	+48	52	8.0
+49° 1791	8	53.6	+48	56	8.9
+53° 1305	8	56.3	+53	30	7.0
+50° 1606	8	58.5	+50	42	8.5
+53° 1309	8	59.7	+53	23	7.3
+40° 2168	9	4.9	+40	42	7.5
+51° 1536	9	36.0	+51	44	7.5
+49° 1880	9	41.5	+49	31	8.0
+50° 1690	9	45.4	+50	13	7.5
+55° 1358	9	52.9	+55	45	9.0
+51° 1563	9	53.8	+51	43	8.3
+50° 1706	9	56.3	+50	21	7.5
+56° 1428	9	58.3	+55	57	8.0
+56° 1434	10	2.0	+55	47	8.0
+50° 1725	10	5.4	+49	58	6.8
+55° 1382	10	11.8	+55	1	9.1
+50° 1745	10	24.8	+50	18	9.2
+49° 1968	10	28.3	+49	36	6.9

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	h.	m.		′	
+56° 1476	10	43.8	+56°	35′	9.2
+51° 1632	10	46.2	+50	48	6.2
+53° 1439	10	46.6	+53	6	6.2
+51° 1636	10	49.3	+51	27	8.2
+52° 1528	10	53.4	+52	26	6.0
+51° 1643	10	53.9	+51	27	7.6
+53° 1464	11	0.6	+53	45	8.8
+56° 1511	11	12.8	+56	44	7.1
+56° 1512	11	13.4	+56	27	8.2
+52° 1563	11	20.3	+52	39	7.2
+57° 1327	11	25.8	+57	42	7.2
+52° 1574	11	29.3	+52	32	8.0
+52° 1583	11	38.5	+52	32	8.9
+56° 1542	11	41.0	+55	54	8.1
+52° 1587	11	41.1	+52	29	7.5
+56° 1547	11	43.3	+56	5	8.1
+56° 1582	12	11.2	+56	29	8.2
+57° 1364	12	11.9	+56	51	7.5
+53° 1685	14	0.2	+52	54	7.7
+50° 2043	14	0.7	+49	50	9.2
+52° 1775	14	3.4	+52	41	8.0
+51° 1902	14	11.6	+51	32	8.3
+51° 1904	14	12.1	+51	27	8.2
+52° 1787	14	14.3	+52	19	7.0
+51° 1916	14	21.6	+51	24	7.9
+53° 1711	14	22.1	+53	4	8.4
+53° 1719	14	30.3	+53	20	7.3
+52° 1819	14	37.8	+52	40	6.8
+53° 1734	14	44.3	+53	15	8.2
+53° 1737	14	45.1	+53	3	8.1

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	h.	m.		′	
52° 1832	14	47.6	+51°	57	8.1
+54° 1710	14	48.6	+54	10	8.3
+53° 1750	14	52.6	+52	58	7.5
+53° 1762	15	4.3	+53	8	7.3
+53° 1763	15	4.6	+53	23	7.5
+52° 1858	15	6.8	+52	48	8.0
+54° 1745	15	21.8	+54	34	6.5
+54° 1756	15	32.6	+54	16	6.0
+52° 1910	15	47.7	+52	4	8.0
+51° 2046	15	56.1	+50	56	7.8
+53° 1838	16	1.4	+53	3	9.5
+52° 2067	17	30.2	+52	10	8.0
+51° 2242	17	39.0	+51	32	7.9
+51° 2265	17	48.3	+51	16	7.5
+51° 2308	18	3.2	+51	56	6.7
+51° 2362	18	19.1	+51	14	6.8

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206 Stars observed by Espeni as III! Entered in III cat.
See Astronomische Nachrichten, Bd. 135, No. 3232. p. 273.

Astr. Expl. No.	BD. No.	R.A. 1900 h.	m.	Dec. 1900	Mag.		
1	+45° 4	0	3.1	+46° 9′	7.5	✓	
2	+45° 24	0	7.2	+45 23	8.0	✓	X
3	+50° 28	0	7.6	+50 56	8.0	✓	X
4	+51° 44	0	14.7	+51 20	8.9	✓	
5	+57° 77	0	20.2	+57 25	7.5	✓	X
6	+58° 94	0	27.8	+58 25	9.0	✓	
7	+57° 102	0	28.3	+57 40	9.0	✓	
8	+47° 141	0	30.0	+47 52	8.2	✓	
9	+46° 124	0	32.3	+46 58	7.3	✓	
10	+58° 94	0	35.6	+58 51	9.0	✓	
11	+55° 142	0	36.9	+55 58	8.7	✓	
12	+57° 145	0	41.9	+57 29	8.9	✓	
13	+48° 302	0	58.1	+48 24	7.9	✓	
14	+50° 191	0	53.7	+50 34	8.4	✓	
15	+48° 355	1	5.0	+48 87	7.3	✓	
16	+50° 240	1	7.2	+50 83	8.9	✓	
17	+54° 253	1	10.1	+54 44	8.0	✓	
18	+51° 291	1	16.4	+51 15	7.7	✓	X
19	+47° 404	1	19.0	+47 47	8.4	✓	
20	+48° 448	1	23.4	+48 39	8.3	✓	
21	+61° 284	1	~~24.9~~ 25.4	+61 47	82	✓	
22	+59° 267	1	25.0	+59 27	9.1	✓	
23	+60° 299	1	~~32.6~~ 33.1	+60 24	8.6	✓	
24	+52° 400	1	33.5	+52 24	9.0	✓	Also in list II or III A.N. Bd. 135, No. 3232.
25	+57° 404	1	44.1	+57 59	7.9	✓	X
26	+48° 538	1	48.3	+48 35	8.8	✓	
27	+50° 400	1	50.4	+50 55	9.1	✓	
28	+57° 439	1	52.0	+57 17	8.7	✓	

X Stars having crosses are already in III cat.

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	BD. Hip.	h. m. s	Dec.	mag.	
29	+61° 369	1 55.~~4~~	+61 43	9.2	✓
30	+58° 363	1 57.8	+58 22	9.4	✓
31	+58° 373	2 0.2	+58 18	9.0	✓
32	+57° 540	2 12.7	+58 11	9.5	✓
33	+48° 663	2 17.2	+48 27	8.5	✓
34	+59° 490	2 20.6	+59 17	9.4	✓
35	+51° 580	2 21.3	+51 14	9.0	✓
36	+59° 568	2 47.7	+59 49	9.0	✓
37	+56° 804	3 11.4	+56 33	8.8	✓ X
38	+60° 695	3 24.6	+60 23	9.0	✓
39	+42° 792	3 30.2	+42 56	8.0	✓
		0h. 9.6	+ 66 H	86	
~~40~~	~~+65° 24~~	~~8 10.7~~	~~+65 42~~	~~9.2~~	
41	+38° 3019	17 48.9	+38 43	8.0	✓
42	+38° 3025	17 49.4	+38 52	7.5	✓
43	+51° 2301	17 59.9	+51 27	8.4	✓ X
44	+38° 3093	18 6.2	+38 54	8.5	✓
45	+33° 3122	18 27.3	+33 20	8.7	✓
46	+34° 3226	18 27.6	+34 58	8.1	✓
47	+33° 3129	18 28.5	+33 31	8.7	✓
48	+38° 3217	18 30.7	+38 27	8.7	✓
~~49~~	+34° 3288	18 38.7	+34 27	8.3	✓
50	+31° 3344	18 39.3	+31 54	8.5	✓
51	+32° 3190	18 40.4	+32 12	9.0	✓
52	+39° 3523	18 42.4	+39 36	8.8	✓
53	+41° 3135	18 42.5	+41 17	8.5	✓
54	+33° 3126	18 45.7	+33 31	9.3	✓
55	+33° 3249	18 50.~~4~~2	+33 32	8.5	✓
56	+32° 3250	18 50.9	+32 57	9.0	✓
57	+34° 3350	18 51.1	+34 28	9.2	✓
58	+29° 3392	18 51.1	+29 40	9.1	✓

Entered also in III or II, A.N. Vol. 140, No. 3352, p. 251

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	BD. No.	h.	R.A. 1900 m	Dec. 1900 °	Mag. BD.	
59	+39° 3620	18	59.8	+39 48	7.3	√
60	+41° 3225	19	1.7	+41 16	8.3	√
61	+31° 3473	19	4.7	+31 54	8.4	√
62	+40° 3615	19	7.1	+40 32	9.0	√
63	+36° 3432	19	7.5	+36 32	9.2	√
64	+26° 3475	19	7.5	+27 13	9.0	√
65	+26° 3479	19	8.1	+27 15	8.9	√
66	+40° 3629	19	9.7	+40 31	8.9	√
67	+26° 3490	19	9.7	+26 17	9.0	√
68	+49° 2965	19	11.6	+49 36	8.2	√
69	+40° 3640	19	12.0	+40 30	8.7	√
70	+49° 2976	19	16.0	+50 3	8.0	√
71	+40° 3668	19	16.0	+40 25	8.9	√
72	+29° 3566	19	17.5	+29 37	8.6	√
73	+37° 3422	19	17.4	+37 12	9.1	√
74	+36° 3513	19	17.7	+36 42	8.8	√
75	+26° 3536	19	19.1	+26 56	9.4	√
76	+30° 3564	19	22.8	+30 35	9.1	√
77	+25° 3838	19	23.1	+25 7	9.2	√
78	+24° 3750	19	23.4	+24 20	8.2	√
79	+35° 3639	19	24.7	+35 6	8.7	√
80	+28° 3356	19	25.2	+28 35	9.3	√
81	+27° 3414	19	27.1	+27 33	9.0	√
82	+27° 3417	19	27.3	+27 11	9.0	√
83	+43° 3279	19	29.6	+43 13	8.3	√ X
84	+25° 3876	19	29.9	+25 36	7.0	√
85	+35° 3688	19	30.8	+35 31	8.8	√
86	+35° 3715	19	34.4	+35 37	8.8	√ X
87	+21° 3863	19	35.1	+21 7	7.5	√
88	+34° 3648	19	35.5	+34 43	8.0	√ X

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	BD. No.	R.A. 1910	Decln 1910	BD. Magn.	
89	+29° 3685	19 35.5	+29 42	8.5	J X
90	+40° 3841	19 37.3	+40 50	8.3	J
91	+36° 3668	19 38.3	+37 0	8.7	J
92	+34° 3681	19 39.7	+34 38	8.7	J
93	+36° 3680	19 41.0	+36 28	8.7	J
94	+40° 3866	19 41.4	+40 28	6.3	J X
95	+41° 3481	19 42.6	+41 34	8.6	J
96	+36° 3703	19 43.9	+36 40	8.3	J
97	+26° 3671	19 44.0	+26 39	9.2	J
98	+45° 2974	19 44.4	+45 38	8.6	J
99	+42° 3466	19 44.6	+42 41	8.7	J
100	+40° 3497	19 ~~45.5~~ 46.6	~~+42~~ 40	~~9.5~~ 7.7	~~J~~ 87
101	+26° 3679	19 45.9	+26 55	8.1	J
102	+44° 3275	19 49.2	+44 25	9.3	J
103	+40° 3526	19 ~~49~~ 52.5	+40 ~~8~~ 4	~~9.4~~ 8.5	J
104	+44° 3284	19 51.0	+44 35	8.5	J
105	+35° 3869	19 52.4	+36 6	8.9	J
106	+44° 3290	19 52.9	+44 33	8.5	J
107	+21° 3987	19 53.2	+21 29	7.8	J
108	+41° 3544	19 53.6	+41 18	8.1	J
109	+22° 3871	19 54.7	+22 21	9.2	J
110	+25° 4050	19 54.9	+25 43	8.3	J X
111	+34° 3880	19 56.2	+35 0	8.4	J
112	+40° 3970	19 56.3	+40 44	9.4	J
113	+24° 3978	19 57.8	+24 9	8.8	J
114	+42° 3563	19 58.1	+42 57	7.8	J X
115	+34° 3846	19 58.2	+34 12	8.9	J
116	+26° 3767	19 58.5	+26 29	9.2	J
117	+42° 3566	19 58.6	+42 53	9.3	J
118	+26° 3768	19 58.9	+26 19	9.0	J

Also in list II or III. A.N. Vol. 185, No. 3232.

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	BD. No.	RA. 1900	Dec. 1900	DD. Mag.	
119	+21° 4036	19 59.4	+21 13	6.6	J
120	+36° 3883	20 3.7	+36 17	7.1	J X
121	+36° 3886	20 3.9	+36 39	8.9	J
122	+36° 3892	20 4.5	+36 23	8.3	J X
123	+26° 3811	20 5.7	+27 2	8.1	J
124	+26° 3823	20 7.3	+26 15	9.4	J
125	+40° 4048	20 7.4	+40 24	8.8	J
126	+40° 4057	20 8.3	+40 33	8.7	J
127	+24° 4045	20 9.0	+24 56	8.4	J
128	+34° 3924	20 9.6	+34 50	8.9	J
129	+34° 3926	20 9.8	+35 3	9.5	J
130	+25° 4178	20 12.7	+26 4	8.5	J
131	+26° 3852	20 13.1	+26 14	8.5	J
132	+46° 2904	20 15.1	+46 27	9.0	J
133	+40° 4113	20 15.4	+40 23	9.5	J
134	+54° 2328	20 15.6	+54 13	8.9	J
135	+26° 3874	20 16.8	+27 5	8.4	J
136	+40° 4135	20 18.5	+40 24	9.0	J
137	+26° 3883	20 18.6	+26 49	9.0	J X
138	+36° 4057	20 21.0	+36 45	8.6	J
139	+29° 4031	20 21.9	+30 5	9.4	J
140	+27° 3755	20 24.9	+27 31	8.5	J X
141	+27° 3775	20 26.6	+27 57	8.7	J
142	+40° 4220	20 28.8	+40 58	9.1	J x
143	+24° 4208	20 35.5	+24 63	9.0	J
144	+63° 1640	20 35.6	+64 1	8.0	J
145	+53° 2456	20 36.8	+53 56	8.6	J
146	+53° 2467	20 38.9	+53 28	9.0	J
147	+58° 2162	20 40.2	+58 21	8.5	J
148	+62° 1862	20 47.4	+62 58	8.2	J

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1882phae.proj.1900F

	BD. No.	R. A. 1900 h m s	Dec. 1900	BD Magn.	
149	+60° 2177	20 53.4	+60° 26′	8.8 √	
150	+46° 3244	21 12.1	+46 36	8.5 √	
151	+50° 3309	21 15.6	+50 14	9.2 √	
152	+49° 3505	21 17.7	+50 1	9.3 √	
153	+60° 2225	21 17.8	+60 33	8.5 √	Also in list III probably some of them II, A.N. Vol. 13
154	+47° 3381	21 18.0	+47 44	6.7 √ X	
155	+51° 3056	21 20.8	+51 38	8.8 √	
156	+48° 3392	21 24.7	+48 25	8.5 √	
157	+48° 3394	21 24.9	+49 1	8.8 √	
158	+46° 3347	21 27.0	+46 18	9.0 √	
159	+55° 2601	21 30.9	+55 28	9.1 √	
160	+54° 2585	21 34.6	+54 34	8.5 √	
161	+63° 1759	21 36.2	+63 56	7.0 √	
162	+48° 3503	21 48.1	+48 25	8.8 √	
163	+64° 1596	21 47.2	+64 47	7.5 √	
164	+57° 2419	21 50.4	+57 42	9.3 √	
165	+45° 3740	21 53.1	+45 21	8.5 √	
166	+49° 3694	21 53.7	+49 39	9.2 √	
167	+62° 2010	21 55.9	+62 13	7.0 √ X	
~~168~~	~~+47° 3364~~	21 57.3 6	+47 50 2	9.6 √	
169 8	+57° 2443	21 59.1	+57 19	9.0 √	
170 69	+62° 2030	22 2.1	+62 35	9.0 √ X	
171 0	+58° 2387	22 2.4	+58 16	9.2 √	
172 1	+58° 2390	22 3.0	+58 25	9.4 √	
173 2	+59° 2477	22 6.9	+59 30	8.3 √	
174 3	+54° 2698	22 7.9	+54 46	9.0 √	
175 4	+59° 2485	22 8.7	+59 35	7.6 √	
176 5	+54° 2705	22 9.1	+54 38	9.5 √	
177 6	+52° 3144	22 9.4	+53 7	8.5 √	
178 7	+51° 3309	22 12.3	+51 59	8.8 √	

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d. 137, No. 3286, p. 375.

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BD No.	R.A. 1900 h. m. s.	Dec. 1900. ° ′	PD mag.	
179 +53° 2882	22 12.5	+53 26	8.9	✓
180 +52° 3181	22 15.9	+52 22	7.5	✓
181 +50° 3694	22 19.6	+51 7	7.7	✓X
182 +62° 2079	22 22.4	+62 49	7.0	✓ X
183 +61° 2298	22 23.8	+62 13	8.2	✓
184 +56° 2787	22 25.4	+56 42	8.4	✓
185 +56° 2788	22 25.6	+57 13	8.5	✓
186 +50° 3742	22 27.3	+50 37	8.2	✓
187 +52° 3237	22 28.4	+52 43	8.7	✓
188 +50° 3764	22 32.6	+50 53	9.2	✓
189 +58° 2464	22 35.0	+59 5	8.4	✓
190 +51° 3487	22 35.5	+51 34	8.8	✓
191 +52° 3281	22 40.7	+52 46	7.5	✓
192 +52° 3291	22 42.6	+53 6	8.0	✓
193 +52° 3302	22 45.6	+52 22	9.1	✓
194 +53° 3001	22 46.0	+53 24	8.0	✓
195 +59° 2583	22 47.0	+59 28	9.1	✓
196 +54° 2875	22 48.3	+54 53	8.9	✓
197 +49° 3959	22 48.3	+50 11	7.4	✓
198 +58° 2495	22 48.5	+58 43	8.7	✓
199 +59° 2595	22 49.1	+59 34	6.3	✓
200 +52° 3349	22 56.8	+52 58	8.8	✓
201 +59° 2698	23 14.0	+59 44	8.7	✓
202 +58° 2596	23 23.4	+58 47	7.5	✓
203 +45° 4246	23 25.9	+45 36	8.0	✓
204 +58° 2611	23 27.9	+58 36	8.7	✓
205 +46° 4081	23 30.0	+46 19	8.4	✓
206 +45° 4311	23 38.9	+45 23	8.6	✓
207 +49° 4364	23 47.6	+47 52	9.5	

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Astronomische Nachrichten, Vol. 135, No. 3282.

136 Stars observed by Espin as III or II.

	BD. No.	R.A. 1900 h. m.	Dec 1900	Mag.	
1.	+57° 14	0 5.3	+51° 46'	7.9	
2.	+50° 16	0 5.6	+50 37	8.6	
3.	+47° 23	0 6.9	+47 38	7.0	
4.	+55° 24	0 8.2	+55 53	8.4	
5.	+49° 73	0 19.8	+49 33	8.6	
6.	+54° 66	0 22.6	+54 42	8.0	
7.	+54° 116	0 31.5	+54 41	7.8	
8.	+51° 112	0 32.3	+51 26	9.1	
9.	+57° 151	0 43.1	+57 27	8.5	
10.	+50° 195	0 54.6	+51 4	8.4	
11.	+58° 170	1 0.4	+59 3	9.4	
12.	+56° 223	1 7.0	+57 3	8.0	
13.	+48° 370	1 8.0	+48 42	8.5	
14.	+52° 334	1 18.9	+52 40	8.7	
15.	+51° 335	1 28.7	+51 50	9.1	
16.	+59° 285	1 29.4	+59 42	8.4	
17.	+52° 400	1 33.5	+52 24	9.0	Also in list III! A.N. Vol. 135, No. 3282.
18.	+59° 373	1 52.7	+59 31	7.7	
19.	+48° 578	1 52.9	+48 33	8.7	
20.	+51° 573	2 3.9	+51 20	8.9	
21.	+58° 392	2 5.1	+58 34	8.8	
22.	+48° 626	2 7.3	+48 42	8.8	
23.	+57° 543	2 13.4	+58 8	9.5	
24.	+43° 723	3 20.5	+43 23	9.1	
25.	+59° 731	3 45.6	+60 4	9.0	
26.	+38° 3087	18 14 48.6	+38 9	8.1	
27.	+38° 3095	18 6.4	+38 28	6.7	
28.	+39° 3402	18 19.4	+39 13	7.3	
29.	+38° 3157	18 20.0	+38 15	7.7	

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BD. No.	R.a. 1900	Dec. 1900	BD Magn.	
30.	+ 38° 3160	18 20.6	+ 38 42	6.5
31.	+ 40° 3365	18 22.0	+ 40 31	9.2
32.	+ 40° 3366	18 22.0	+ 40 25	8.5
33.	+ 39° 3419	18 23.4	+ 39 5	8.1
34.	+ 34° 3282	18 29.0	+ 34 42	9.5
35.	+ 34° 3288	18 30.5	+ 34 22	7.5 √X
36.	+ 38° 3219	18 30.8	+ 38 22	7.3 √X
37.	+ 33° 3156	18 33.3	+ 33 9	8.3
38.	+ 37° 3180	18 34.1	+ 37 41	7.0 √X
39.	+ 32° 3171	18 35.2	+ 32 25	9.4
40.	+ 37° 3193	18 36.1	+ 37 26	7.7
41.	+ 34° 3296	18 39.9	+ 34 53	8.5
42.	+ 38° 3276	18 40.7	+ 38 26	7.0 √X
43.	+ 33° 3209	18 44.8	+ 33 40	7.8 √X
44.	+ 34° 3336	18 47.7	+ 34 17	9.1
45	+ 35° 3388	18 49.1	+ 35 21	7.2
46.	+ 33° 3246	18 49.6	+ 33 21	8.3
47.	+ 37° 3279	18 51.0	+ 37 11	8.9
48.	+ 38° 3362	18 53.7	+ 38 39	7.6 √X
49.	+ 32° 3275	18 54.1	+ 32 43	8.5
50.	+ 36° 3391	19 0.9	+ 36 33	9.2
51.	+ 32° 3321	19 2.6	+ 32 10	8.0
52.	+ 32° 3334	19 5.3	+ 32 6	8.4
53.	+ 26° 3478	19 8.0	+ 26 7	9.1
54.	+ 26° 3485	19 8.9	+ 26 28	8.3
55.	+ 40° 3644	19 12.4	+ 40 52	8.5
56.	+ 38° 3509	19 12.8	+ 38 13	9.2
57.	+ 38° 3518	19 13.7	+ 38 52	6.7 √X
58.	+ 40° 3664	19 15.5	+ 40 49	9.1

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	BD. No.	R.A. 1900	Dec. 1900	BD. Magn.	
59.	+35° 3572	19 16.2	+35 9	8.8	
60.	+40° 3670	19 16.3	+40 5	7.1	
61.	+29° 3562	19 16.6	+29 41	9.5	
62.	+35° 3578	19 17.0	+35 9	9.3	
*63.	+30° 3708	19 ~~19.4~~ 39.5	+30 49	8.5	
64.	+29° 3587	19 20.9	+29 38	9.3	
65.	+29° 3588	19 21.1	+29 48	8.9	
66.	+29° 3590	19 21.7	+29 34	9.0	
67.	+24° 3765	19 25.9	+24 50	8.0	
68.	+39° 3784	19 26.3	+39 33	8.5	
69.	+24° 3768	19 26.5	+24 54	8.1	
70.	+31° 3631	19 26.7	+31 45	7.5	
71.	+42° 3367	19 27.5	+42 49	8.1	
72.	+34° 3588	19 27.8	+34 30	9.5	
73.	+29° 3628	19 28.0	+29 59	8.0	√ x x
74.	+31° 3648	19 28.7	+31 8	9.1	
75.	+40° 3773	19 28.8	+40 13	8.5	
76.	+30° 3621	19 29.1	+30 56	8.7	
77.	+35° 3681	19 29.9	+35 50	8.4	
78.	+25° 3877	19 30.1	+25 8	7.3	
79.	+27° 3837	19 31.3	+27 38	8.5	
80.	+31° 3678	19 32.3	+31 18	8.0	
81.	+31° 3681	19 32.6	+31 31	9.1	
82.	+36° 3633	19 33.3	+36 59	9.1	
83.	+42° 3419	19 37.5	+42 50	6.7	√ x
84.	+37° 3560	19 37.5	+37 25	9.5	
*85.	+33° 3597	19 43.7	+34 3	8.2	
86.	+32° 3573	19 44.8	+32 43	9.0	
87.	+26° 3684	19 46.4	+26 27	8.5	

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BD. No.	R.A. 1900	Dec. 1900	BD. Mag.
88.	+23° 3813	19 47.9	+23 11 9.0
89.	+36° 3742	19 48.1	+36 23 8.5
90.	+40° 3914	19 48.6	+40 33 8.8
91.	+26° 3740	19 53.3	+26 53 9.2
92.	+34° 3811	19 54.4	+34 25 9.0
93.	+45° 3022	19 55.3	+45 8 8.4
94.	+34° 3832	19 56.6	+35 4 8.3
95.	+35° 3920	19 58.3	+35 21 8.0
96.	+26° 3768	19 58.9	+26 19 9.0
97.	+20° 4406	19 59.5	+20 46 7.5
98.	+44° 3385	20 1.8	+44 32 8.2
99.	+35° 3978	20 4.2	+35 26 9.4
100.	+34° 3888	20 5.6	+34 26 8.3
101.	+45° 3071	20 6.2	+45 13 9.4
102.	+54° 2324	20 14.4	+54 22 8.8
103.	+34° 3966	20 14.6	+34 43 8.2
104.	+54° 2347	20 22.87	+55 6 8.0
105.	+31° 4129	20 29.5	+31 34 8.5
106.	+53° 2514	20 51.4	+53 23 7.1
107.	+54° 2456	20 57.0	+54 49 6.4
108.	+50° 3267	21 4.2	+51 6 8.0
109.	+60° 2203	21 5.9	+60 40 9.3
110.	+54° 2484	21 6.5	+54 54 9.0
111.	+49° 3476	21 8.2	+50 0 7.7
112.	+47° 3357	21 13.8	+47 38 8.4
113.	+61° 2131	21 21.9	+61 17 7.7
114.	+52° 2935	21 22.5	+52 26 7.5
115.	+52° 2969	21 30.4	+52 15 8.8
116.	+54° 2571	21 30.8	+54 35 9.5

Also in hist of III! A.N. Vol. 135, No. 3232.

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	B.D. No.	R.A. h. 1900 m.	Dec. 1900	B.D. Magn.
117.	+60° 2269	21 32.9	+61 4	9.2
118.	+45° 8659	21 41.8	+45 18	8.0
119.	+59° 2422	21 45.5	+60 6	9.4
120.	+49° 3651	21 49.0	+49 56	9.3
121.	+59° 2438	21 58.~~7~~ 8	+59 43	9.5
122.	+62° 2018	21 58.5	+63 2	9.2
123.	+52° 3087	21 59.9	+52 14	8.0
124.	+52° 3110	22 3.0	+52 33	9.3
125.	+58° 2399	22 6.8	+58 44	8.2
126.	+53° 2814	22 9.3	+54 0	9.0
127.	+52° 3149	22 10.1	+52 46	7.6
128.	+51° 8329	22 15.2	+52 10	8.2
129.	+56° 2799	22 27.5	+56 44	8.8
130.	+53° 2999	22 45.6	+54 8	8.4
131.	+65° 1959	2~~2~~ 3 48.4	+66 13	8.0
132.	+46° 3874	22 50.2	+46 45	8.0
133.	+58° 2510	22 51.1	+58 45	9.0
134.	+45° 4208	23 18.9	+45 49	8.1
135.	+59° 2817	23 57.2	+59 58	9.5
136	+66° ~~+637~~ 873	14 48.6	+66 4	7.3

√x Zone +66° goes no further than 1683. Was +66° 1637

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meant? A. N. Vol. 137, No. 3286. p. 375 Erfurt has remark +66° 1887 should be +66° 873.

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Additional Red Stars in 11h. Continued from p. 52.

	Design.	R.A.	Dec.	Magn.	Plate Nos.	Class Sp.	A.	Cl.
	A.G.C. 15269	11h 4.4m	− 61° 24′	6.0	9098, 15042, 15732, 15188	B2?	..	..
✓	" 15388	9.7	− 25 32	8	9078, 13137, 11310, 13131	Ma, Mb	..	..
✓	" 15828	30.2	− 60 14	7.2	9098 9454, 13084, 11262	Mb, Ma, Mb	..	..
	" 15975	36.2	− 61 32	5.7	9098, 9454, 11262, 13084	2	..	..
✓	+8° 2465	5.3	+ 8 26	8.0	10736, 9464, 12740, 22650	Ma, Ma	..	..
	A.G.C. 15646	21.7	− 36 20	8¼	9377, 7988, 13057, 13075	Ma	..	..
✓	" 16056	39.8	− 60 17	8¼	9454, 13084, 13762, 23016	Ma, Ma	..	..
✓	" 16264	50.0	− 62 1	7¾	9454, 13028, 13762, 13772	Ma, Ma	..	..
	Z.C. 11h 1251	19.1	− 39 57	8½	9377, 13057	Ma	..	..
	+59° 1401	41.6	+ 58 47	9.3	20239		E.	B, III?
	A.G.C. 15331	7.5	− 29 14	7.4	11324, 11310, 13105, 15601	Ma	..	..
✓	−11° 3030	2.7	− 12 3	8.2	9540, 13409, 5525, 19140	Ma, Ma	..	..
✓	−21° 3264	8.4	− 21 30	7.7	11323, 13146, 3374, 13137	Ma, Ma	..	..
	−19° 3242	16.4	− 19 54	8.7	11332 694, 7740, 25270	Ma	..	..
	A. 16449	57.9	− 54 38	8¼	9520, 8312, 19024, 21454	Ma	..	..
✓	+5° 2580	59.2	+ 5 30	7.7	9465, 13724, 19342, 22316	Ma, Ma	..	..
	Computed Pos.	55.3	− 54.5		9520 8312, 19024, 21454	N	..	..
	−10° 3207	4.4	− 11 8	7.7	13371, 5525, 13409, 19140	Ma	..	..
	A. 15636	21.4	− 25 12	8.2	13131, 13137, 11310, 13117	Mc, Mb, 5c	..	..
	" 15767	27.5	− 28 35	7.8	13117, 13075, 13105	Ma	..	..
	−1° 2541	29.8	− 1 41	8.2	13798, 13418, 19228	Ma	..	..
	−13° 3407	30.7	− 14 2	8.5	13806, 21406, 22754, 22784	N	..	..
	A 15838	30.8	− 46 37	8.2	13032, 13106, 13118, 19003	Ma	..	..
	−15° 3320	34.1	− 16 4	8.0	13806, 11332, 18979, 25270	Ma	..	..
	A 15969	36.1	− 60 25	7.8	13084, 9454, 11262, 23016	Mc 5d?	..	..
	+11° 2394	38.8	+ 11 14	8.5	13731, 22316	Ma	..	..
	A 16094	41.5	− 23 55	7.5	13325, 13131, 13147, 25036	Ma	..	..
	−2° 3420	44.2	− 2 46	8.8	13348, 13807,	Ma, Mc	..	..
	−2 3446	54.1	− 2 46	7.3	13362, 13807	Ma, Mb	..	..
	Z.C. 11h 3299	49.2	− 67 7	8	13773, 13024, 13095	Ma	..	..

Continued on p. 184

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Plate 9098; F line bright? Not confirmed on plate B. 4903.

Plate 13806, Nd 0.6 1.0; 0.9 1.0; 0.4 0.5; 0.3 0.4.

Plate 13084, var.? Chart plates 3320, 3512, 9351, 9704 B Lewis examined & show no evidence of variability.

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continued from p. 50.

Additional Red Stars in 10h.

	Ident.	R.A.	Dec.	Magn.	Plate Nos.	Class Sp.	A.	Cel.
	L.M.-41 6058	10h 38.1m	-41 23	7.9	9376, 9554a, 13056a, 13065a	Ma	..	..
	A. 14649	38.8	-48 32	7.2	9376 9453a, 13030a, 13780a	Ma	..	..
	Z.C. 10h 2965	41.3	-71 32	7.5	9488, 9489a, 13095a, 15518a	Ma	..	..
	..	48.4	+14 15	..	11068, 22657a, 22690a	Md?	..	..
	A. 14911	49.3	-67 41	7.3	9488, 9489a, 13095a, 15518a	Ma	..	..
✓	" 15054	55.7	-44 22	8	9376, 13030a, 13106a, 13430a	Ma, Ma,	..	..
	" 15147	59.8	-39 17	8	9376, 9377a, 13056a, 13430a	Ma	..	..
	Z.C. 10h 2214	31.8	-31 19	9, 8.5	11324, 11309a, 13048a, 22920a	Ma	..	..
✓	+9° 2388	36.2	+9 6	8.2	9464 13394a 22650	Ma, Ma	..	..
	+12° 2266	45.9	+12 7	6.8	9464	2	..	..
	Z.C. 10h 3332	46.9	-34 0	8.5	11324, 13048a, 13056a, 13065a	Mc	..	..
	-21° 3192	52.0	-21 30	7.7	9540, 695a, 3374a, 13146a	Ma	..	..
✓	-8° 3066	56.3	-9 14	7.3	11062, 13371, 13409a 24977a	Mb, Ma, Ma	..	..
✓	+6° 2397	59.1	+5 46	8.2	9464 13370a 12740a, 22650a	Ma, Ma	..	..
	-14° 3041	4.9	-14 16	7.8	13349, 523a, 549a, 8066a	Ma	..	..
	-13° 3067	10.1	-13 18	8.6	13156, 549a, 6109a, 13349a	Ma	..	..
	Z.C. 10h 795	11.7	-44 4	8	13780, 9554a, 13040a, 15319a	Ma	..	..
	" " 876	12.8	-48 51	9	13780, 12872a, 12976a, 13040a	Ma	..	..
	" " 922	13.5	-47 26	9	13089, 9554a, 13040a, 13780a	Mb	..	..
	-38° 6501	24.3	-38 22	8	13065, 13104a, 13430a, 15319a	Ma	..	..
	-10° 3073	25.6	-10 18	7.3	13349, 6109a, 8066a, 19017a	Ma	..	..
	A. 14457	29.6	-83 50	8.5	13466, 13465a, 20869a	Ma	..	..
	-15° 3111	37.2	-15 34	8.3	13136, 523a, 550a, 6109a	Ma	..	..
	-11° 2957	44.5	-11 26	8.2	13417 6109a, 13409a, 19017a	Ma	..	..
	-1° 2451	44.8	-1 25	8.5	13408, 19393a, 22753a, 22977a	Ma?	..	..
	-8° 3025	46.7	-8 20	8.2	13409, 13379a, 13417a, 24977a	Ma	..	..
	+2° 2367	47.6	+2 38	8.0	13408 N 31619 13378	Ma, Mb,	..	..
	N.G.C. 3201	13.5	-45 54		13780, 9554a, 15139a, 19157a	cont.	..	..
	Z.C. 9h 4593	0.5	-62 52	8.8	13761, 12901a, 15517a, 15618a	Ma	..	..
	A. 14187	18.7	-61 21	7.2	13761, 12901a, 15517a, 15618a	Ma	..	..

Continued on p. 182

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Additional Red Stars in 13h.

Ident.	R.A.	Dec.	Magn.	Plate Nos.	Class Sp.	A.	bl.
+3° 2762	13h 17m.0	+3° 18′	8.0	10937, 9466, 9567, 13397	Mb, Ma, Mb, Ma	..	..
−20° 3852	31.3	−21 12	8.3	9444, 13132, 13149, 14594	Ma	..	..
−9° 3745	36.1	− 9 57	8.0	11375, 13351, 12895, 19020	Ma, Ma	..	..
A.G.C. 18780	43.9	−36 7	8	9401, 13067, 11297, 15603	Ma, Ma	..	..
" 18889	48.7	−36 23	8.5	9401, 11297, 14151, 15603	Ma	..	..
−17° 3961	50.3	−17 45	8.0	11360, 13139, 7758, 25272	Ma, Ma	..	..
+8° 2794	53.0	+ 7 57	8.0	11385, 11373, 18998, 22318	Ma	..	..
A.G.C. 19026	55.4	−36 50	7¾	9401, 11520, 11297, 13078, 13794	Ma, Mb, Ma, Ma	..	..
Z.C. 13h 651	12.2	−57 37	9	9375, 9399, 11264, 13085	O, O, O	..	..
" " 870	16.1	−59 46	9	8313, 11264, 13439, 23238	Ma	..	..
" " 1816	31.9	−61 14	8	8313, 13439, 19892, 21696	Ma	..	..
A. 17978	8.0	−54 20	8.2	9399, 9422, 13449, 19924	Ma	..	..
" 18697	40.1	−46 40	7.5	9402, 7749, 13044, 13121	Ma	..	..
Z.C. 13h 2419	41.4	−45 40	8.5	9402, 13068, 13121, 21531	Ma, Mb?	..	..
A. 18897	49.3	−46 47	2.7	9402, 13044, 13121, 21531	A2	..	..
−12° 3907	45.0	−12 37	7.3	10074, 13139, 13351, 11375	Ma, Ma, Ma	..	..
−2° 3749	46.6	− 3 12	9.3	11366, 11475, 12732, 19144	Mc, Mc, Mc	..	..
A.G.C. 19000	54.5	−56 44	7	11508, 8321, 11659, 19853	Ma	..	..
" 19079	58.6	−29 25	8.5	11311, 11520, 13159, 13783	Ma, Ma	..	..
" 19075	58.6	−61 27	7½	11508, 13086, 11659, 18097	Ma, Ma, Ma	..	..
" 18119	13.5	−28 16	8¼	11326, 13058, 11396, 13390	Ma	..	..
−18° 3547	4.8	−18 22	8.5	13754, 9444, 11395, 13138	Ma	..	..
Z.C. 13h 223	5.3	−48 14	8½	13449, 7750, 8085, 19924	Ma	..	..
Z.C. 13h 570	11.0	−61 3	8½	13438, 8313, 13439, 19892	Ma	..	..
−22° 3548	12.0	−22 35	8.6	13390, 853, 9444, 13754	Ma	..	..
A.G.C. 18180	16.6	−69 52	8¼	13440, 13096, 13763, 19905	Ma	..	..
−41° 7892	25.1	−41 8	8.3	13068, 7533, 9135, 13059	Ma	..	..
−24° 10977	28.8	−24 53	8.3	13390, 7990, 13132, 13149	Md? 2	..	..
−21° 3781	44.5	−21 36	7.8	13139, 21218, 22785, 23432	Ma	..	..
A.G.C. 19010	54.6	−36 7	8.2	11520, 9401, 11297, 14151	Ma	..	..

[illegible] 188

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Plate 11659. "Probably right ident., but not certain. Pos. had to be meas. on B 19827. L.D.N."

Var.? Var. not confirmed. Cont. sp. with Hydrogen line Hβ, Hγ, Hδ & Hε bright like γ Cassiae.

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Continued from p. 58

Additional Red Stars in 14h.

	Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class Sp.	A.	δ.
.	A 19858	14 34.3	− 41 47	7″14	9118, 7939, 9445, 11753	Ma	..	..
.	" 19870	35.1	− 46 51	75	9118, 11688, 19029, 23024	Ma	..	..
.	−8° 3705	3.4	− 8 23	8.5	11375, 19006, 19143, 19374	Ma	..	..
. ✓	A 19237	6.0	− 10 0	8	11375, 11388, 13365, 12918	Ma, Ma, Mc	..	..
	+4° 2849	14.1	+ 4 38	8.7	11496, 11385, 13304, 13411	Ma	..	..
✓	−1° 2951	19.4	− 1 28	7.5	11496, 11386	Ma, Ma	..	..
	+54° 1671	19.5	+54 16	var.	11305, 858, 3939, 20241	?	..	..
	~~Approx. Pos.~~	~~49.7~~	~~+17 52~~	..	11058	?	..	..
✓	Chandler's pos.	49.7	+ 18.1		11058, 11063, 12483, 14453	?, ?, ?	..	..
	A.G.C. 19251	7.7	− 75 37	7	9491, 8301, 11717	Ma	..	..
	−15° 3839	11.6	− 15 59	8.5	11312, 11388, 12918, 13365	Mc	..	..
	Z.C. 14h 653	11.9	− 60 22	8 / 8.5	11508, 13086, 19749, 19909	Ma?	..	..
✓	−14° 3917	12.5	− 14 15	8.5	11312, 13365, 31756, 11388, 12918	Mc, Mc, Mb	..	..
. ✓	A.G.C. 19381	14.6	− 61 33	9¼	11508, 11525, 19403, 19749	Ma, Ma	..	..
✓	−18° 3799	15.5	− 18 32	8.5	11312, 13755, 13140	Ma, Ma	..	..
.	A.G.C. 19680	27.1	− 69 32	7¼	9490, 11725, 21768, 21784	Ma	..	..
.	" 19709	28.0	− 56 8	7	11508, 13086, 19909, 23018	Ma	..	..
	..	46.7	− 46 12	..	11298, 11688, 19029, 23024	Md?	..	..
. ✓	" 20279	52.7	− 57 54	8½	11508, 11669, 13087, 11524	Ma, Ma, Ma	..	..
.	−11° 3854	55.0	− 11 29	8.0	10121, 3743, 3774, 19021	Ma	..	..
. ✓	−18° 3951	55.8	− 18 25	8.0	9403 9480, 12735, 11384	MaMa, Ma	..	..
	−1° 2942	16.4	− 1 56	8.5	11386, 13373	Ma	..	..
✓	A.G.C. 19572	22.2	− 39 6	8¼	9755, 11753, 13060, 13078	Ma, Ma	..	..
✓	" 19643	25.1	− 29 39	8.5	9754, 11520, 13069, 13160, 13166, 13753	Mc, Mc, Mc:d, Mc	..	..
✓	" 19757	30.0	− 34 29	7.5	9754, 11520, 13069, 13078, 13783	Ma, Ma, Ma, Ma, Ma	..	..
.	" 19956	38.9	− 38 19	8.5	9755, 11753, 7939, 9555	Mb, Ma	..	..
. ✓	+7° 2841	41.8	+ 7 42	8.0	9763, 13398, 13411, 13734	Ma, Ma, Ma	..	..
✓	A.G.C. 20042	41.8	− 31 49	8.5	9754, 11516, 13069, 13404	Ma, Ma, Ma, Ma	..	..
	Computed Pos.	46.7	− 46 12	..	11298, 11688, 19029, 23024	Md?	..	..

Continued on p. 190

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1882phae.proj..890F

S Bootis. Pl. 11305 Two ft. to classify.

U Böotis Two ft. N.S.

Plate 11298; var. "Plates exam. & var. confirmed Oct. 9, 1894. E.C.P."

S Serpi.

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Continued from p. 60.

Additional Red Stars in 15h.

	Ident.	R.A. 1900 h.	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A	Cl.
√	A.G.C. 20994	15 25.2	−68 33	8	8595, 11671, a 11670, a 21785	Ma, Ma	..	..
√	" 20927	21.8	−37 0	7.5	11491, 11492, 9486, 13070	Mb, Mb, Ma, Ma	..	..
	+57° 1576	18.2	+57 9	8.5	~~3735~~		E.	III
	+60° 1613	28.2	+59 54	9.2	a 3735		E.	B, III:! (?)
	+43° 2520	36.1	+43 1	8.0	a 1747, a 3602, a 3709, a 7026		E.	III!!
	A.C. 21265	36.1	−45 45	7.5	11472, 11948, a 11689, a 21248	Ma	..	..
√	" 21626	52.5	−30 26	8	11400, 13052, 13070, 13123, 13391	Ma, Ma, Ma, Ma	Ma ..	..
	−1° 3036	8.8	−1 31	8.5	11334, a 13816, a 28881	Ma	..	..
	A.C. 20697	10.6	−51 55	8 3/4	9435, a 13827, a 14350, a 19932	2	..	..
	−14° 4180	15.1	−14 23	7.5	10056, a 3743, a 3774, a 9480	Ma	..	..
	+10° 2853	21.7	+10 23	7.0	11333, a 5978, a 656, a 9475	Ma	..	..
√	A.C. 20942	21.8	−5 28	8.4	11334, 13816, a 9579, a 13366	Ma, Ma	..	..
	−1° 3066	27.2	−1 26	8.5	11334, a 9579, a 13816, a 14187	Ma	..	..
√	A.C. 21092	28.8	−47 3	8 1/4	9435, 11687, a 12029, a 21248	Ma, Ma	..	..
	" 21168	32.0	−48 17	8	9435, 11689, a 12029, a 21248	2:, Ma	..	..
√	" 21382	41.8	−51 55	7.5	9435, 21382, 11696, 13088	Ma, Ma, Ma	Ma ..	..
√	+4° 3105	58.9	+4 0	8.5	9571, 13810, a 9570, a 9571	Ma, Ma	..	..
√	N.G.C. 5882	10.0	−45 16.6	..	9435, 11689, 13036, 13061	O, O, O, O:	..	..
√	−40° 10084	50.2	−40 47	8.0	9415, 13122, 13141, a 11399	Ma, Ma, Ma	..	..
	Z.C. 14h 3830	1.7	−54 33	8 1/2	13827, a 9436, a 11524, a 14131	Ma	..	..
	A.G.C. 20515	1.8	−8 33	8.2	13809, a 12741, a 13374, a 13422	Ma	..	..
	Z.C. 14h 3835	2.4	−72 30	8 1/2	11534, a 8191, a 11716, a 14146	2:	..	..
	−22° 3904	3.1	−22 41	7.7	13151, a 832, a 1020, a 10120	Ma	..	..
	Z.C. 15h 504	8.9	−48 10	8 1/2	13827, a 9767, a 13036, a 19936	Ma	..	..
	A.G.C. 20676	9.6	−47 20	7 1/2	11689, a 9628, a 13036, a 19936	Ma	..	..
	" 20702	11.0	−45 21	7 1/2	11679, a 9628, a 13036, a 19936	Ma	..	..
	" 20709	11.3	−54 0	7.6	11524, a 11669, a 19932, a 23021	Ma	..	..
	Z.C. 15h 1043	17.2	−54 43	8 3/4	11524, a 11669, a 19932, a 23021	Ma	..	..
	Gillis 10898	19.9	−81 49	9.5	13442, a 8164, a 13469, a 19035	Ma	..	..
	Z.C. 15h 1250	20.1	−48 6	8	13827, a 9628, a 9764, a 19936	Ma	..	..

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Continued from p. 62.

Additional Red Stars in 16h.

Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Colors &c.	A.	Col.
~~See p. 62 A. 22654~~	~~16 39.8 −41 18~~	~~7½~~	~~6762, 7419~~	~~Ma? Ma~~	..	..
A. 22186	16 16.8 − 40 51	7½	8618, 9415a, 11401a, 14373a	Ma	..	..
A. 22357	16 25.7 − 49 22	8m	8619 13835, 13037a, 19570a	Ma, Ma	..	..
−15° 4338	16 28.0 − 15 55	var.	11064, 13382a, 14391a, 17666a	2	60 ft.	..
Z.C.16h 2040	16 31.3 − 52 39	9	8619, 11499a, 12889a, 19926a	Ma	..	..
Z.C.16h 2161	16 32.9 − 48 6	8	8619, 13037, 13801, 9416a	Mb, Ma, Mb	..	..
A 22640	16 39.2 − 46 54	7.4	8619 10347, 11493a, 13045a	O, O	..	..
A 22845	16 48.1 − 41 56	7½	8618, 6774, 9417a, 17049a	2	..	..
A 23096	16 58.7 − 59 32	7¾	8222, 9460a, 11993a, 13824a	Ma	..	..
Z.C.16h 3903	16 56.8 − 57 56	8¼	9112, 11994, 13775, 9460a	Ma, Ma, Mb	..	..
..	16 36 − 84 10	..	8164, 13443a	2 Ma	..	..
~~A. 22803~~	~~16 46.6 − 42 53~~	~~6.6~~				
A. 23017	16 54.7 − 29 31	7½	8294, 8627, 13766, 13843, 14152	Mb, Ma, Mb, Mb, Mb.	..	..
Approx. Pos.	16 59. − 43 8	..	7687, 8596a, 9417a, 9598a	2	..	..
Z.C.16h 3977	16 57.4 − 29 33	9	8294, 13766a, 17036a, 17055a	Mb	..	..
−2° 4180	16 19.6 − 2 15	8.0	11377, 12037, 11314a, 11320a	Ma, Mb	..	..
−2° 4242	16 39.9 − 2 54	6.9	11390, 11377, 11320, 12037, 9623	Ma, Mb, Mb-Mb, Ma	..	..
−1° 3245	16 42.0 − 1 47	neb.	11367, 13376, 13811, 13819, cont.?, cont.?, cont., cont.	..	..
A. 22732	16 43.6 − 21 41	7½	11479, 11486, 9766, 15621	Mb, Ma, Ma	..	..
−6° 4513	16 48.9 − 6 33	8.5	11367, 13819a, 23471a, 23751a	Ma	..	..
+11° 3083	16 54.4 + 11 41	8.1	11389, 12061a, 19012a, 25570a	Ma	..	..
Z.C.16h 3808	16 55.1 − 44 18	8½	9417, 13800, 7687a, 8596a	Ma, Ma	..	..
~~+50° 2251~~						
~~+3° 3340~~	16 1.4 + 50 46	8.7	1140a, 1314a, 1336a, 25265a		E. P, III.?.?, III.!!	
+67° 935	16 16.6 + 67 28	8.6	1818a, 25621a		E. III.?.?, IV.?, IV, IV.?	
+52° 2016	16 56.7 + 52 27	8.3	3704a, 25266a		E. III.!!	
+61° 1631	16 59.4 + 61 10	8.7	3765a		E. III	
..	16 16.8 − 51 18	..	13037, 13088a, 19570a, 19620a	O	E. III.!	
A.G.C. 22311	16 23.3 − 43 54	8.5	9415, 13789a, 9786a, 11401a	Ma, Ma	..	..
22440	16 29.4 − 43 32	8.5	9415, 9786a, 11401a, 13789a	Ma	..	..

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Plate 8618. Too near edge of plate to distinguish class of Spectrum.

Plate 8596 examined & no sign of object appears on them. Position cannot be measured.
Plate 7687: Spectrum of nebulosity. Br. line. Probably defect. Chart plate 5827 & Spectrum.

Plate 11367; Cl. ?

Plate 13037; Gas. Neb.? or V Type?

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Additional Red Stars in 16h.

Ident.	R.A. 1900 h. m.	Dec 1900 ° ′	Magn.	Plate Nos.	Class Sp.	A.	Cl.
+0° 3506	16 16.7	+0° 48′	8.8	9571, 9557, 11376	Ma?	..	..
A. 22255	19.5	− 2 16	7.0	11314, 11320, 17676, 20305	Ma	..	..
−0° 3148	32.2	− 0 12	8.6	11320, 11314, 11367, 20305	Ma	..	..
Z.C. 16h. 2832	42.6	− 55 27	9	9460, 11499, 11993, 13824	Ma	..	..
AGC. 22067	12.1	− 50 48	7.7	11499, 13088, 19570, 19620	Ma	..	..
√ " 22214	18.5	− 53 13	8	11499, 13088, 13835, 19933	Ma, Ma, Ma	..	..
−11° 4135	20.8	− 11 15	8.2	12037, 1076, 13382, 18981	Ma	..	..
−11° 4154	24.3	− 11 48	8.3	12037, 1076, 13382, 14391	Ma	..	..
+5° 3234	31.8	+5 13	8.7	9621, 9571, 11376, 19235	Ma	..	..
AGC. 22538	34.2	− 56 36	8¼	11499, 11526, 11993, 13824	Ma, Ma	..	..
−8° 4352	50.1	− 8 9	8.8	12019, 23471, 23751, 23817	Ma	..	..
−15° 4410	50.8	− 15 20	8.2	12019, 3775, 11479, 13382	Ma	..	..
AGC. 23063	57.3	− 60 17	7¾	11517, 6821, 9460, 11993	Ma	..	..
√ −4° 4225	59.9	− 4 53	7.5	9623, 13819, 14385, 20306	Ma, Ma	..	..
Z.C. 16h. 557	9.9	− 54 58	8	13088, 19570, 19620, 19933	Ma	..	..
AGC. 22020	10.1	− 58 9	7½	13774, 11526, 19640, 19918	Ma	..	..
−22° 4135	11.1	− 22 43	neb.	13758, 12743, 12906, 13460	cont.	..	..
Z.C. 16h. 1260	19.8	− 52 33	8	11526, 13088, 19570, 19620	Ma	..	..
AGC. 22348	27.1	− 78 49	7.8	12882, 13469, 13470, 7700	Ma	..	..
" 22478	31.7	− 51 37	8	13801, 11499, 12889, 19926	Ma	..	..
" 22543	33.9	− 28 44	7.2	13766, 13053, 13162, 20210	Ma	..	..
" 22581	35.6	− 26 55	9	13843, 13053, 13162, 20210	Mb	..	..
H. Computed Pos.	39.8	− 67.6		11637, 11672, 13099, 6837	N	..	..
Z.C. 16h. 3210	47.5	− 47 57	8.5	13801, 9764, 13450, 19856	Ma	..	..
AGC. 22839	48.5	− 65 3	7.0	11539, 6821, 13775, 20143	A2	..	..
Chandler's position	50.2	− 30.4		13071, 8294, 9596, 13766	Md	..	..
−30° 13626	50.3	− 30 26	8.0	13766 8294, 9596, 13071	Mc	..	..
Z.C. 16h. 334	6.8	− 64 5		11660, 11527, 13774, 19902	Ma	..	..
−21° 4483	55.6	− 21 40		13844, 9766, 10127, 21256	O	..	..
−19° 4498	57.4	− 20 0		13844, 9448, 9766, 10127	Ma	..	..

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N. G. C. 6093.

New.

F line bright?
Plate 13071; var. H_γ = 1.0; H_δ = 1.1. R. R Scripps.

Plate 13844, Gas. neb.

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continued from p. 66.

Additional Red Stars in 18 h.

	Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class. Sp.	Authority	Cl.
.	−20° 5065	18 10.0	− 20 3	9.2	a a a a 3816, 9656, 13462, 13846		Kr.	III
.	+4° 3918	57.6	+ 4 15	8.8	a a a a 9478, 11379, 12038, 13424		Kr.	III
	+2° 3774	59.7	+ 2 39	8.2	a a a a 3391, 9624, 12039, 14665		Kr.	III
. √	−18° 4953	19.1	− 18 35	8.0	11155, 13802, 14207, a 13757	Ma, Ma, Ma	..	..
. √	A. 25296	26.0	− 19 12	var.	11155, 11223, 11227, a 8293	F5g, F5g:, G2	..	..
	+3° 3751	30.7	+ 3 59	8.9	11251, 10111, a 11065, a 20566	Ma	..	..
	−13° 5083	38.7	− 13 20	9.1	11066, 10114, a 10162, a 11487	?, O,	..	..
. √	−22 4562 ~~A. 26218~~	0.8	− 22 3	8.4	8303, 9826, a 9656, a 13462	Ma, Ma	..	..
	+63° 1439	34.5	+ 63 37	8.0	a 8580, 25403	2	..	..
.	Computed Pos.	3.3	− 63.6	..	a a a 8583, 11540, 11661, 13471	Md	..	..
.	−17° 5066	6.9	− 17 27	9.0	8642, 13135, a 13757, 13802	Ma, Mb	..	..
.	−16° 4820	15.0	− 16 13	neb.	a.g.D. a a a 8410, 13757, 13802, 23025	R	..	..
. √	Z.6.18 h. 1000	18.2	− 64 22	8.2	a a 8597, 8621, 11540, 13471	Ma, Ma	..	..
	Z.6.18 h. 1661	29.4	− 38 13	8	8392, 11535, 12244, 12279	Mb, Ma, Ma, Ma,	..	..
.	A. 26129	59.7	− 38 17	8½	a a a 8392, 9559, 14135, 20082	N?	..	..
.	Appar. Pos.	10.7	− 18 55	..	8303, a 13757, a 13802, a 23025	O	..	..
	+9° 3576	4.0	+ 9 26	9.4	a a a 9437, 3829, 23017, 25389	N	..	..
	A 24858	10.2	− 54 22	7.2	a a a 11337, 12898, 13837, 19571	Ma	..	..
	+12° 3436	11.0	+ 13 0	8.2	a a a 9437, 16851, 23017, 25571	Ma	..	..
.	A 24957	13.5	− 40 19	8¼	a a a 11488, 6645, 9565, 13785	Ma	..	..
.	" 25264	24.6	− 28 1	8	a a a 9829, 11322, 13828, 14142	Ma	..	..
.	" 25393	30.9	− 53 4	7¾	a a a 11337, 11588, 11771, 19919	Ma	..	..
. √	−15° 5043	33.4	− 15 8	7.7	11480, 11234, 11321, a 11066	Ma, Ma, Ma	..	..
.	A 25675	42.0	− 54 28	8.2	a a a 11337, 11588, 11771, 12907	Ma	..	..
√	−12° 5168	42.1	− 12 26	7.1	a a 11480, 11487, 11307, 13463	Ma, Ma	..	..
	+22° 3273	1.8	+ 22 13	5.2	a a 25484, 27781		E.	III.!!
	+67° 1047	4.6	+ 67 25	8.6	a 25403		E.	III.!!
	+48° 2651	8.5	+ 48 1	8.3	a 20122		E.	III
	+15° 3574	44.1	+ 15 42	8.6	a a a a 3837, 8587, 22875, 25372		E.	III.!!

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Kr. gives E. as authority. Not in III Cat.

" " " " " "

" " " " " "

Plate 10114; New? Not a defect. Confirmed on B 10162 and an examination of Chart Plate B 20470 shows the br. band to be of shorter λ than HβB.

8303 A. E. D.

Plate 8580; line "h" bright?

Var. New.

8410: Spectrum of nebulosity.

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18 h.

Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class Sp.	A.	Cl.
+10° 3764	18 57.5	+10 6	9.5	a a a a 2012, 2024, 14171, 25572		E.	IV²
+46° 2599	18 58.1	+46 18	8.8	a a a a 2163, 2245, 2320, 4331		E.	III!!!
+8° 3697	18 22.1	+8 8	8.8	9470, a 3829, a 9437, a 11065	Ma	..	..
See Bk. 1, p. +9° 3809	18 35.2	+9 53	8.0	9470	~~Mbsc~~	..	..
−17° 5288	18 35.5	−17 10	8.0	11321, a 11066, a 14619, a 14620	Ma	..	..
+7° 3934	18 57.0	+7 41	8.3	9478, 1976, 3922 14171	Ma	..	..
−21° 4874	18 3.5	−21 18	9.7	8642, a 3816, a 9656 a 13462	O²	..	..
+8° 3669	18 18.7	+8 40	9.5	11154 a 9437, a 11065, a 11169	Md²	..	..
+6° 3898	18 37.1	+6 43	9.0	12038, a 3829, a 11065, a 11169	Ma	..	..
+1° 3763	18 39.6	+1 47	8.2	12038, a 11379, a 13424, a 25511	Ma	..	..
Computed Pos.	18 43.5	+7 10	6.9	12038, a 3922, a 9478, a 17354	Md²	..	..
+40° 3555	18 57.1	+40 33	6.9	11318, a 4331, a 7293	Mb	..	..
Z.C. 17 h. 4017	18 1.1	−50 22	8.2	13451, a 8620, a 12260, a 19938	Ma	..	..
−20° 5002	18 2.3	−20 52	9.3	13846, a 8642, a 9656, a 13462	Ma	..	..
−18° 4799	18 2.5	−18 34	7.4	13802, a 13757, a 23025, a 24169	Ma	..	..
A.G. 26122	18 59.8	−41 42	8	6567, 13786, a 9560, a 14387	Ma, Mb	..	..
" 24620	18 0.5	−38 13	8½	13785, a 9836, a 19873, a 20681	Ma	..	..
Z.C. 18 h. 22	18 2.3	−47 43	9	13451, a 6769, a 19938, a 19962	Ma	..	..
" " 28	18 2.3	−47 38	8½	13451, a 6769, a 19938, a 19962	Ma	..	..
A.G. 24669	18 2.5	−36 59	8¼	13785, a 9565, a 13785, a 19873	Ma	..	..
−17° 5034	18 2.9	−17 59	8.8	13802, a 8642, a 23025, a 24169	Ma	..	..
Computed Pos.	18 7.8	−19 4.6	..	13135, a 13802, a 23025, a 24169	V, O	..	..
−30° 15469	18 9.7	−30 54	10	13828, a 16725, a 20212, a 24154	O	..	..
−16° 4820	18 15.0	−16 13	neb.	13802, a 13757, a 23025, a 24169	Neb.	..	..
Z.C. 18 h. 836	18 16.0	−73 36	8½	11727, a 11674, a 15606, a 21336	Ma	..	..
A.G. 25042	18 16.9	−28 27	8½	13851, a 10141, a 13828, a 17092	Ma	..	..
−26° 13102	18 17.3	−26 1	9.2	13828, a 14176, a 17092, a 20212	Mb	..	..
−26° 13128	18 18.9	−25 59	9.5	13828, 14355, a 17092, a 20212	Mb, Ma	..	..
A.G. 25096	18 19.0	−32 12	9¼	13851, a 13406, a 16725, a 24154	Ma	..	..
−16° 4861	18 19.1	−16 20	8.3	13802, a 13757, a 23025, a 24169	Ma	..	..

(continued on p. 302)

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A.E.D.
Plate 8642; Very ft. Star near D.A. 17681 on I 6617 Aug. 20, 1892. Looked up by Mr. Wendell & not confirmed.
Plate 11154; var.? Pls. I 1560, 4036, 6575, 6689, 8762, 9355, 3862, 8814, 9058 & 6629 examined show no evidence of variability.

6120, 6519, 8469, 8472, 9913, I 9055, 9340, 11148, 11389 show no evidence of var. Approx 1855 pos. $18^h\ 41^m\ 17.1^s + 7\ 6$
Plate 12038; Very ft. var.? Traces of apparent br. lines probably due to defect. Examination of chart plates I 3862, B 6002,

Plate 13802; Gas. Net. announced as V Type but found to be Gas. Net. by Prof. Keeler, Oct. 18, 1895.
Plate 13828; Hβ, Hγ; Hδ; Hε + Hζ (?) bright. Spectrum similar to that of η Carinae. Discovered N.G.C. 6618.

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Continued from p. 68.

Additional Red Stars, 19h

Identif.	R.A. 1900 h	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
+31° 3643	19 27.9	+ 31 39	8.2	1668, 1978a, 2214, 2528		E	III.!!
+43° 3268	28.0	+ 43 25	9.0	2253a, 2417a, 7326a, 20594a		E	B III?
..	28.7	+ 26 21	..	1335a, 1573a, 4167a, 27920a		E.	III.!!!
+36° 3616	31.6	+ 36 25	9.5	1315a, 7311a, 11222a, 25622a		E.	B III?
+21° 3864	35.3	+ 21 47	8.5	13714a, 14612a, 14630a, 27920a		E	III.!!
+20° 4216	35.4	+ 20 10	8.4	13714a, 14612a, 18550a, 27920a		E	III.!!
+26° 3639	36.6	+ 26 6	9.2	4167a, 11224a, 11241a, 23123a		E	III.!!
+26° 3641	36.8	+ 27 1	9.0	4167a, 11224a, 11241a, 23123a		E	III.!!, var.?
+26° 3645	37.9	+ 26 24	9.0	4167a, 11224a, 11241a, 23123a		E	III.!!, var.?
+35° 8784	41.8	+ 35 30	9.1	1315a, 1431a, 11222a, 25622a		E	
+21° 3909	43.3	+ 21 30	7.0	4619a, 13714a, 14612a, 27920a		E	III.! var.?
+33° 3596	43.6	+ 33 14	9.4	1315a, 1431a, 1668a, 1978a		E	B III?
+27° 3570	48.0	+ 27 11	9.1	1573a, 11224a, 11241a, 23123a		E	B
+34° 3766	48.7	+ 34 21	9.1	1315a, 1431a, 4090a, 4480a		E.	III.!!!
+41° 3542	53.3	+ 41 36	9.0	2253a, 2512a, 7326a, 9455a		E.	III.!!
+44° 3302	55.0	+ 44 50	8.7	2306a, 2512a, 7326a, 11367a		E	III.!
+49° 2984	18.0	+ 49 17	7.8	2163a, 2245a, 2320a, 2396a		Kr.	III
+47° 2823	20.8	+ 47 52	7.5	907a, 1428a, 2245a, 3719a		Kr.	III?
+47° 2852	27.7	+ 47 60	8.2	907a, 1428a, 2245a, 3719a		Kr.	III
−7° 5006	81.5	− 7 15	5.0	10344a, 11391a, 14838a, 18380a		Kr.	?
−1° 8782	81.6	− 1 30	4.2	10125a, 10354a, 10355a, 24449a		Kr.	?
+65° 1369	83.4	+ 65 19	7.5			Kr.	B
+50° 2844	88.5	+ 50 9	7.3	907a, 1828a, 2286a, 2396a		Kr.	III
+69° 1070	485	+ 70 1	8.8	7365		Kr.	III?
+51° 2707	51.8	+ 51 35	9.0	1268a, 1828a, 2286a, 2396a		Kr.	III
+25° 4051	54.9	+ 25 27	8.3	11224a, 11241a, 23123a, 27920a		Kr.	III
−14° 5613	55.5	− 14 12	7.5	9801a, 12021a, 14178a, 16854a		Kr.	II? III
−14° 5618	56.4	− 13 55	5.8	9801a, 12021a, 14178a, 16854a		Kr.	II. III
+50° 2914	51.0	+ 50 53	7.8	907a, 1268a, 1828a, 9890a		Kr.	III

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Additional Stars in 19 h.

Ident.	R.A. 1900	Dec. 1900	Mag.	Plate Nos.	Rel. Sp.	A.	Rel.
+49° 3009	h. m. 19 23.6	+49 14'	7.9	a a a a 907, 1428, 2245, 3719		Kr.	III
+57° 2085	19 51.2	+57 55	7.5	a a a 9925, 2471, 2514, 3053	Ma	..	..
A. 26218	19 4.3	−58 26	8¼	a a a 8223, 8622, 10439, 11510	Ma?	..	..
Z.C. 19h. 196	19 6.9	−62 34	8.5	a a a 8223, 6783, 11512, 13472	Ma?	..	..
−17° 5546	19 10.5	−17 9	var.	33H 11252, 11228, 11480, 14208	Md, NS ?, Mb Sc Md	..	..
A. 26457	19 14.0	−38 55	7.5	a a a 11502, 9559, 14135, 14589	Ma	..	..
−17° 5588	19 14.8	−17 13	8.1	11252 8644, 10169, a 9552	Mb, Ma, Ma	..	..
A. 26515	19 16.3	−32 41	8¼	a a a 10255, 13768, 13852, 20154	Ma	..	..
A. 26587	19 19.3	−46 46	7	8606, 11502, 10107, a 19939	Ma, Ma, K5M	..	..
+9° 4114	19 23.7	+9 25	8.1	a a 10123, 11553, 23239, 24323	Ma, Ma	..	..
+10° 3916	19 24.3	+10 25	8.6	a a a 10123, 11553, 23239, 24323	Ma	E	III!!
Approx. Pos.	19 26.4	+9 51	..	a a a 10123, 11553, 23239, 24323	O	..	..
Z.C. 19h. 1167	19 29.5	−60 38	8.5	a a a 8223, 8622, 11512, 13472	Ma	..	..
A. 26912	19 33.7	−31 12	neb.	10136, 11403, a a 9780, 19929	cont?, cont.		
+10° 4002	19 33.9	+10 51	8.7	10123 a a a 11553, 23117, 27918	Ma	E	III!!
+9° 4188	19 34.3	+9 15	8.7	10123 a a a 11553, 23117, 27918	Ma		
+11° 3942	19 36.2	+11 41	7.8	10123 a a a 11553, 23117, 27918	Ma	..	..
−12° 5526	19 41.3	−12 24	8.2	11393, 12021, 14419, a 16854	Ma, Ma, Ma	..	..
−7° 5060	19 41.7	−7 47	8.0	11393 a a a 10344, 11391, 13416	Ma	..	..
−11° 5140	19 44.1	−11 15	8.8	11393 a a a 11391, 12021, 16854	Ma	..	..
A. 27193	19 46.8	−59 27	7.5	8223, 8622, 11511, 11512, 11528, 11529, 11543, 11996	Mc, Ma?	Mc, Mc, Mc, Mc, Mc, Mc ..	..
A. 27370	19 54.7	−58 44	8¼	6832, 8622, 11529, 11543	Mb, Ma	M? Mc ..	..
" 26166	19 2.0	−60 9	neb.	11546, 10439, 11510, 11512	cont., ?, semi-cont.	..	..
" 26410	19 11.8	−46 13	8¼	a a a 11501, 11494, 14362, 19939	Ma	..	..
Approx. Pos.	19 58.7	+49 45	..	9890, 11488, 11504, a 1268	?, ?, ?	..	..
+8° 3966	19 1.0	+8 57	9.0	a a a a 2012, 2024, 14171, 23239		E.	III!!
+30° 3453	19 6.9	+30 55	8.2	a a a a 1890, 1966, 3933, 21597		E.	III!!
+10° 3857	19 13.8	+10 20	9.5	a a a a 2012, 2024, 14171, 25572		E.	B, IV?
+15° 3761	19 13.9	+15 22	9.1	3837, 13116, 13277, 13485		E.	III!!

Continued on p. 204.

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1992phee.proj..0005

Plate 11480; var.?

Plate 10123; new V Type.

Plate 10136, Cl. or Neb.? Plate 11403; Cl.?

Plate 10439; Neb. or Cl.?, Plate 11510; Cl. H.&C. 675-2; Plate 11512; Cl.?

Plate 9890; too ft. to classify.

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Continued from p. 70

Additional Red Stars. 20h

Ident.	R.A. 1900 h m	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Rel.
+25° 4126	20 5.9	+26° 6'	9.3	a 1992, a 22831, a 23123, a 25476		E	III!!:, var.?
+40° 4050	7.6	+40 39	8.0	a 2276, a 9455, a 25799, a 27810		E	III, var.?
+26° 3824	7.6	+26 17	9.5	a 1992, a 22831, a 23123, a 25476		E	III!!
+27° 3642	7.6	+27 9	8.7	a 1992, a 22831, a 23123, a 25476		E	III!!
+34° 3913	8.1	+34 37	8.7	a 132, a 2231, a 2328, a 2331		E	III!
..	13.1	+37 9	..	132, 2231, 2328, 2331		E	B, III?
..	15.1	+40 28	..	a 2276, a 9408, a 25799, a 27810		E	B?, III?
..	17.2	+25 59	..	a 1992, a 22831, a 25476, a 27792		E	III!!
+26° 3883	18.6	+26 50	9.0	a 1992, a 22831, a 25476, a 27792		E	B,
..	19.4	+26 9	..	a 1992, a 22831, a 25476 27792		E	III!!
+27° 3714	19.5	+27 14	9.5	a 1992, a 22831, a 25476, a 27792		E	III!!, var.?
..	23.1	+37 52	..	a 2231, a 2328, a 21231, a 23401		E	B,
+38° 4098	24.8	+38 31	9.3	a 2231, a 2328, a 21231, a 23401		E	III!!
+28° 3787	28.7	+28 42	8.2	a 1992, a 19033, a 25476		E	III!
..	30.0	+54 37	..	a 4625, a 4823, a 7378, a 25805		E	B
+53° 2440	33.3	+54 0	8.5	a 4625, a 4823, a 7378, a 13118		E	III!!
+54° 2398	38.3	+55 4	9.2	a 4625, a 4823, a 7378, a 13118		E	B, IV?
+35° 4262	42.9	+35 48	8.8	a 1829, a 2430, a 2470, a 2504		E	III!!
+38° 4244	46.0	+38 11	8.4	a 193, a 2397, a 21231, a 23401		E	III!!,
+50° 3217	48.9	+50 56	9.4	a 4625, a 7642, a 14839, a 23748		E	III!!
..	50.9	+44 53	..	a 1230, a 2397, a 11484, a 14839		E*	B
+50° 3235	54.2	+50 41	9.3	a 4625, a 7642, a 14839, a 23748		E	B, III?
+20° 4417	0.7	+20 22	8.9	a 1663, a 3913, a 4160, a 22831		Kr.	IV
+53° 2380	15.3	+53 42	8.6	a 2471, a 2514, a 7378, a 25805		Kr.	III
+46° 2906	15.6	+46 14	8.0	a 1303, a 1410, a 1434, a 7413		Kr.	III
+39° 4851	24.2	+39 47	var.	a 2231, a 2276, a 9407, a 9408		Kr.	III
+41° 3782	27.1	+41 51	9.2	a 1977, a 2276, a 11803, a 13133		Kr.	III?
+45° 3202	27.8	+45 16	8.7	a 1182, a 1303, a 1410, a 1434		Kr.	III
+45° 3226	32.6	+46 0	9.1	a 1303, a 1410, a 1434, a 4712		Kr.	III

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* III!!!, III? var.?"

Kr. gives E. as authority. Not in III cat.

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Additional Red Stars in 20h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	Authority	Bl.
+46° 2989	20h 33.2m	+46° 57′	8.2	a 1303, a 1410, a 1434, a 4712		Kr.	III?
+43° 3669	33.8	+43 43	9.3	a 1977, a 11803, a 11484, a 13133		Kr.	B.
-3° 4981	35.0	-3 0	7.0	a 2503, a 10370, b 13874, a 14692		Kr.	?
+40° 4292	39.8	+40 21	8.0	a 193, a 11803, a 11484, a 13133		Kr.	III?
+49° 3371	43.4	+49 43	9.0	a 4712, a 7642, a 14839, a 23748		Kr.	B
+47° 3205	47.6	+47 39	7.0	a 4712, a 7642, a 14839, a 23748		Kr.	III?
+49° 3430	56.1	+49 38	9.4	a 4625, a 7642, a 14839, a 23748		Kr.	B
+51° 2762	2.4	+52 0	8.5	a 1268, a 2268, a 2396, a 25800		Kr.	III?
+43° 3568	16.6	+43 39	9.1	a 1182, a 2276, a 25799, a 27810		Kr.	III?
+53° 2384	17.8	+53 16	6.5	a 2471, a 2514, a 7378, a 25800		Kr.	III
+40° 4220	28.8	+40 58	9.1	a 2276, a 13209, a 13488, a 13529		Kr.	III?
+46° 3064	46.1	+46 16	9.0	a 4712, a 7642, a 14839, a 23748		Kr.	III?
+50° 3220	49.2	+50 15	8.6	a 4625, a 7642, a 14839, a 23748		Kr.	III?
+44° 3622	50.1	+45 0	8.2	a 4712, a 7642, a 14839, a 23748		Kr.	III?
+0° 4496	19.6	+1 2	6.9	a 11370, a 10154, a 10316, a 14669	Ma	..	..
✓ -6° 5487	22.5	-5 59	7.3	1X370, 10371, 8604, a 14182	Mb, Ma, Mb	..	..
✓ Z.C. 20h 841	27.5	-67 46	8½	8635, 12071, a 11720, a 13473	Ma, Ma	..	..
✓ A. 28155	28.7	-71 26	7.4	8635, 11713, 11720, 12070, 12236, 13522	Ma, Ma, Ma, Ma, Ma, Ma	..	..
+1° 4336	34.3	+1 48	8.3	11370, a 10316, a 14669, a 18574	Ma	..	..
✓ Already in Book 6 a -14° 5839	~~39.0~~	~~-14 33~~	~~7.1~~	~~10246~~	~~Ma~~	..	..
A. 28638	47.1	-3 35	8.0	10253, a 2503, a 14193, a 14692	Ma	..	..
A. 28776	55.0	-28 37	9.0	9804, 9899, a 12289, a 14138	Ma	..	..
A. 28804	55.7	-23 28	8¼	9804, 9773, a 19264, a 19905	Ma	..	..
✓ A. 28823	57.3	-69 2	7.6	8635, 11720, 13552, 13553	Ma, Ma, Ma, Ma	..	..
+36° 3886	2.2	+36 21	8.9	9408, a 132, a 2331, a 4666	Ma	..	..
Approx. Pos.	11.0	-67 15	..	8610, 6805, a 11720, a 13473	Ma	..	..
A. 27874	15.1	-6 40	7½	10371, a 10156, a 14182, a 17007	Ma	..	..
" 28071	23.1	-12 7	7½	10371, a 13873, a 14694, a 21932	Ma?	..	..
-9° 5492	27.6	-9 21	8.3	10371, a 13873, a 14182, a 16689	Ma	..	..

Continued on p. 212.

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Continued from p. 72.

Additional Red Stars in 21h

	Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class.	A.	Cl.
		21 10.4	+ 45 51	8.3	a 1825, a 2215, a 2419, a 25984		Mr.	III
		21 46.2	+ 12 9	7.7	9910 10345 a 18251		..	..
√	Afb. 29705	21 37.3	− 55 56	7.0	9831 8573 8652 11544 11693 11694 11995 14411	Mb Ma Ma Ma Ma Ma Ma	..	..
√	" 29884	21 45.4	− 20 39	8.5	9834, 11394, 10401 12372 13805	Ma, Ma, Ma, Ma, Ma	..	..
√		21 50.7	− 14 30	7.8	9834 10173 a 15123, a 20513	Ma, Ma	..	..
		21 54.0	− 18 28	8.0	9834, a 19657, a 20094, a 20513	Ma	..	..
√	A. 29199	21 12.7	− 72 0	7.4	8635, 11721, 11722, 11712, 11730	Ma, Ma, Ma, Ma, Ma	..	..
√	" 29439	21 23.7	− 57 20	7¾	8652, 11675, a 11544, a 11995	Ma, Ma	..	..
√	" 29700	21 37.0	− 54 57	7.1	11544, 11693 11694, 11995, 14411	Ma, Ma, Ma, Ma, Ma	..	..
√	" 30001	21 51.1	− 57 11	7.5	11544, 11693 11995 12080 14411	Ma, Mb, Ma, Ma, Mb	..	..
		21 5.9	+ 60 40	9.3	4885		E.	III !! var.?
		21 14.8	+ 43 31	5.3	a 5342, a 13508, a 15164, a 23968		E.	P
		21 16.2	+ 63 8	9.1	a 23686		E.	III !!
		21 38.1	+ 33 37	8.3	a 2256, a 2373, a 2434, a 21232		E.	III !!
		21 53.0	+ 39 26	8.8	a 9902, a 19057, a 19061, a 17188		E.	III !! var.?
		21 0.9	+ 42 3	8.2	11499, a 205, a 13508, a 15164	Ma	..	..
√		21 17.7	− 6 40	8.3	10379, 12022, 13822, a 16849	Ma, Ma, Ma	..	..
		21 25.2	+ 11 43	net.	10143, a 10115, a 14667, a 26019	Cont.?	..	..
		21 26.1	+ 5 7	8.5	10143, 10115 a 4180, a 14204	Ma, Ma	..	..
√	A. 29525	21 28.3	− 1 15	net.	10117 12209 12371 12384 12882	Cont.? cont. cont. cont.	..	..
√	" 29543	21 29.2	− 20 53	8.2	10401, 13805, a 12372, a 16265	Ma, Ma,	..	..
√	" 29661	21 34.9	− 34 58	8	9824, 12088, a 9901, a 21641	Ma, Ma	..	..
√	" 29838	21 43.5	− 37 10	8	9824, 13854, a 12088, a 20512	Ma, Ma	..	..
		21 47.1	+ 1 26	8.8	10386, a 10174	Ma	..	..
	A. 29939	21 48.2	− 41 44	7¾	9824, 11765, 11701, 12088	Ma, Ma, Mb, Mb,	..	..
√		21 51.1	− 10 3	8.3	10387 10173 13513 a 15123	Ma, Ma, Ma	..	..
		21 51.2	− 5 13	8.0	10386, a 10387, a 12040, a 13513	Ma	..	..
√	A. 30060	21 53.5	− 37 45	8¼	9824, 11765, 13770 a 13854	Ma, Ma, Ma	..	..
	Appar. Pa.	21 13.	− 67 15		8635, a 8611, a 8651, a 20542	Ma	..	..

Continued on p. 208

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Ku. gives E. as authority; not in III Cat.

9910 F line bright. Confirmed on B 10345. See No. 4040.

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Continued from p. 74.

Additional Red Stars in 22 h.

Ident.	R.A. 1900 h. m.	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
+52° 3163	22 12.6	+ 52° 27	9.2	4521a, 4676a, 7535a, 13492a	E		III !!
+57° 2493	22 12.6	+ 57 29	8.2	4676a, 4687a, 9647a, 13695a	E		III !!
+65° 1758	18.1	+ 65 48	8.5	4847a, 5730a, 13536a, 13697a	E	B,	III?
..	19.0	+ 56 45	..	4676a, 4687a, 9647a, 13695a	E	B,	
+59° 2516	21.1	+ 59 43	..	4500a, 4687a, 13536a, 13695a	E		III !!
..	23.7	+ 52 44	..	2162a, 4521a, 7535a, 23299a	E	B,	III?
+51° 3383	23.9	+ 51 48	9.4	2162a, 7535a, 17181a, 23299a	E	B,	
+49° 3864	24.7	+ 49 38	9.0	6721a, 13502a, 17181a, 23299a	E		III !!!
+65° 1770	25.0	+ 65 56	9.0	4847a, 5730a, 13536a, 13697a	E	B,	IV?
+59° 2557	37.4	+ 59 45	9.5	2435a, 4847a, 13536a, 13697a	E	B,	III?
+52° 3290	42.3	+ 52 43	9.1	4521a	E		III !!
..	46.4	+ 54 3	..	4676a, 4687a, 9647a, 13695a	E	B,	III?
+45° 4117	56.3	+ 45 59	8.8	6721a, 13502a, 21605a, 23970a	E		III !!!
+45° 4121	57.2	+ 45 21	9.5	7640a, 23300a, 23359a, 23970a	E		IV !; var.?
+60° 2469	57.3	+ 61 2	9.0	2435a, 4847a, 13534a, 13697a	E		III !!!
+57° 2675	58.2	+ 57 42	8.4	13534a, 14064a, 14272a, 14261a	E		III
+55° 2754	24.8	+ 55 29	9.5	4676a, 4687a, 9647a, 13695a	Kr.		III
+55° 2784	34.9	+ 55 56	8.9	4676a, 4687a, 9647a, 13695a	Kr.		III
+55° 2787	35.8	+ 55 38	8.9	4676a, 4687a, 9647a, 13695a	Kr.		III?
+22° 4709	41.8	+ 23 2	8.9	7620a	Kr.		?
+55° 2831	48.5	+ 55 59	7.7	4698a, 9647a, 13534a, 13695a	Kr.		III?
+55° 2860	53.6	+ 55 31	9.2	4698a, 13534a, 14064a, 14272a	Kr.		III
+55° 2872	56.3	+ 56 2	9.1	4698a, 13534a, 14064a, 14272a	Kr.		III
J −14° 6223	4.3	− 14 23	8.2	9834, 12254, 10242, 10243	Ma, Ma, Ma	..	..
A. 30326	5.8	− 27 39	7.1	8208, 12089a, 20259a, 23813a	Ma	..	..
A. 31170	49.8	− 24 30	8/14	10398, 11740a, 12090a, 13856a	Ma	..	..
J A. 31251	54.3	− 31 40	8.5	10399, 11740, 11757, 12090	Ma, Ma?, Ma, Ma	..	..
J A. 31353	59.2	− 36 26	7.5	10399, 9823, 11757a, 12246	Ma, Ma, Ma, Ma	..	..
A. 31107	46.2	− 65 26	8.2	8537, 11549, 11775a, 19899a	Ma	..	..

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Kr. gives E as authority. Art in III heat.

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22 h.

	Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	bl.
	A 31161	22 49.5	− 49° 2′	6 3/8	8638, 14144, 19922, 20454	2.	..	..
	+38° 4754	22 19.5	+ 38 43	8.8	1421, 1617, 2290, 9902	E.	III!!	
	..	22 24.8	+ 64 23	..	4847, 5730, 13536, 13697	E.	IV?	
	+36° 4959	22 51.1	+ 36 51	9.0	1617, 2290	E	III!!	
	+41° 4589	22 38.8	+ 41 51	9.0	11498 11303 14183 3802	M.S. ?, Md?, ? N.S. ?	..	..
✓	A 30219	22 0.8	− 32 4	8.5	11503, 12031, 12032, 14646	Ma, Ma	..	..
	" 30396	22 9.5	− 26 9	8	11503, 10563, 12089, 23813	Ma	..	..
✓	−8° 5858	22 16.5	− 8 7	8.5	10166, 12254, 12041, 10243	Mc, Mc, Mc, Mc	..	..
	+10° 4752	22 21.5	+ 10 53	8.5	11523, 14197, 14423, 26020	Mb	..	..
✓	−11° 5858	22 27.2	− 11 27	8.5	10166, 12041, 11424, 14174	Ma, Ma	..	..
	−2° 5778	22 28.2	− 2 7	9.0	10118, 14424, 24044, 24334	Ma	..	..
✓	−30° 19221	22 30.2	− 30 51	7.5	11503, 11757, 12089, 12032	Ma, Ma, Ma, Ma	..	..
✓	−5° 5820	22 31.1	− 5 40	8.7	10118, 12041, 9783, 14150	Ma, Ma	..	..
	Afb. 30343	22 6.9	− 61 57	9	9681, 11514, 11997, 19895	Ma	..	..
✓	" 30351	22 7.3	− 57 43	8	9681, 11665, 12080, 14143	Mb, Ma, Ma	..	..
	−3° 5423	22 12.8	− 3 41	9.0	12041, 10388, 14424, 23252	Ma	..	..
	−13° 6170	22 16.4	− 13 4	8.7	12254, 10243, 10349, 14174	Mc, Mb5c	..	..
	−9° 5987	22 24.6	− 9 32	9.1	12041, 10371, 14150, 14894	Ma	..	..
✓	Afb. 30708	22 26.0	− 44 3	7 3/4	9789, 11703, 11758, 12271, 12281	Ma, Ma, Ma, Ma	..	..
	−7° 5807	22 27.9	− 7 41	9.0	12041, 10371, 14150, 14894	Ma	..	..
	−13° 6224	22 31.0	− 13 9	8.8	10243, 10349, 11424, 14183	Ma	..	..
✓	Zb. 1026	22 34.9	− 51 59	7 3/4	9790, 12363, 14413, 19922	Ma, Ma	..	..
✓	Afb. 30931	22 37.8	− 40 39	8 1/4	9789, 11676, 11758, 12271, 12281	Ma, Mb, Ma, Ma	..	..
	−10° 6016	22 49.7	− 9 55	8.7	12064, 17536, 19959, 20559	Ma	..	..
	−0° 4432	22 49.1	− 0 6	8.5	12385, 9783, 10118, 24041	Ma	..	..
	Zb. 22h. 1645	22 57.3	− 57 23	8	12033, 6794, 12081, 12363	Ma	..	..
	Zb. 22h. 1631	22 57.3	− 77 28	9	11987, 11988, 14162	Ma	..	..
	Afb. 31341	22 58.7	− 28 47	8	12090, 10398, 11740, 12090	Ma	..	..
	" 31359	22 59.7	− 61 44	7 3/4	11776, 10431, 11775, 19899	Ma	..	..

continued on p. 210

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1882phae.proj..890F

F line bright towards edge of Adg. 31162 22h. 49.5 - 49° mag. 7 superposed.
shorter R. Spectra of star of Cl. A. superposed.

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Additional Red Stars in 23h.

Ident.	R.A. 1900 h. m.	Dec. 1900	Mag. D.	Plate Nos.	Class Sp.	A.	Cl.
+55° 2886	23 0.1	+55° 55	7.7	4825, 14064a, 14261a, 14272a		Kr.	III
+55° 2907	4.6	+55° 28	8.7	13843a, 14064a, 14261a, 14272a		Kr.	III?
+54° 3091	55.1	+55 9	9.0	2543a, 7711a, 17378a, 17405a		Kr.	III²
+55° 3043	49.9	+55 37	8.3	16947a, 16972a, 16984a, 17405a		Kr.	III
+55° 2942	15.8	+55 15	8.2	13696a, 13843a, 14261a, 14272a		Kr.	III
+55° 2967	24.9	+56 0	8.8	13696a, 13843a, 14261a, 14272a		Kr.	III?
+51° 3676	34.2	+51 42	7.8	2164a, 7218a, 7360a, 16947a		Kr.	III³
A. 32223	47.8	−83 34	7.2	8168	Ma	..	..
+40° 4998	2.6	+40 53	8.8	7640a, 21605a, 23359a, 23970a	Ma	..	..
..	6.0	+60 43	..	2435a, 4847a, 13697a, 13843a		E.	III?, var.?
+67° 150 S	6.4	+67 31	9.3	23698a		E.	B, III?
+40° 5026	10.0	+40 15	9.0	7640a, 21605a, 23359a, 23970a		E.	III!!!
+40° 5040	13.1	+40 18	9.1	7640a, 21605a, 23359a, 23970a		E.	III!!
+47° 4115	15.0	+48 7	9.2	2164a, 6732a, 23300a, 25940a		E.	III!!!
+44° 4418	21.2	+44 29	9.0	19619a, 23359a, 25940a, 25982a		E.	III var.?
+57° 2750	25.7	+57 26	9.5	13696a, 13843a, 14261a, 14272a		E.	III!!
+41° 4856	39.7	+41 30	8.7	19619a, 23971a, 25982a		E.	III!!!
+60° 2634	48.0	+60 27	9.0	4812a, 4940a		E.	II?
A. 31588	13.1	−29 1	8	10405, 14140a, 14155a, 24560a	Ma	..	..
" 31596	13.7	−53 58	8	10408, 12363a, 10276a, 11687a	Ma, Ma	..	..
" 31744	21.2	−58 59	7.8	10431, 8352a, 12033a, 12057a	Ma	..	..
" 32191	45.3	−22 48	7.5	10423, 14365a, 20505a, 24596a	Ma	..	..
" 31427	3.7	−30 41	7¾	12090, 11740, 12246a, 14140a	Mc5d, Mc5d, Mc	..	..
−21° 6376	6.3	−21 32	9.0	8653, 14622a, 14880a, 24530a	N	..	..
+58° 2560	7.4	+59 9	9.5	13696a, 13843a, 14272a, 14261a	Md	E	III!!!*
+2° 4664	19.5	+3 11	9.0	12340, 10158a, 10357a, 12340a	Ma	..	..
+10° 4939	23.7	+10 57	8.5	11304a, 5262a, 10374a, 14198a	Ma?	..	..
+10° 4945	26.3	+10 21	8.4	11304a, 5262a, 10374a, 14198a	Ma	..	..
−31° 19104	0.1	−31 21	7.7	12090, 10398a, 14140a, 24560a	Ma	..	..

*Ty

23h. continued on p. 216.

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1882phae.proj..890H

Kr. gives E as authority. Not in III Cat.

" " " " " "

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" " " " " "

Plate 12090; var.? and show evidence of var. See No. 8255, B14155. Plate 11740, var.?
Chart plates exam. & show no evidence of variability. See No. 5344 on B11740, Mar 25, 1896. Mem Ch. Pls. exam.

* Type of Mira.

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Continued from p. 32.

Additional Red Stars in 1 h.

	Ident.	R.A. h. 1900 m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class Sp.	A.	cl.
	−3° 191	19.3	− 3 0	8.0	10389, 10376, 23768, 23789	Ma?	..	..
	A. 1385	22.7	− 11 25	6.2	10598, 11797, 12248, 24465	Ma	..	..
	−21° 249	28.1	− 21 36	8.2	10629, 10601, 12333, 12366	Ma	..	..
	+4° 305	38.8	+ 4 30	8.3	10442, 10350, 10441, 21937	Ma	..	..
.	A. 1688	39.5	− 16 28	3	10600, 12240, 12333, 24128	2	..	..
.	−15° 321	43.8	− 15 15	7.3	10631, 12342, 12376 24128	Ma	..	..
	− 5° 323	44.9	− 5 21	8.5	10360 12025 10376, 10630	Md?, Mb	..	..
. ✓	−18° 336	52.5	− 18 10	7.5	10433 12340 12366 24128	Ma, Ma, Ma	..	..
	+6° 314	55.0	+ 6 27	7.7	10441, 10381, 10442, 20035	Ma	..	..
	+13° 191	12.1	+ 13 24	8.5	12043, 19808, 19811	Mb	..	..
	+6° 222	21.4	+ 6 54	8.9	12024, 7106, 13842, 14066	Ma	..	..
	−17° 319	42.8	− 17 42	8.0	12366, 12333, 12240, 24128	Ma	..	..
	+8° 284	46.3	+ 8 48	8.2	12024, 10442,	Ma	..	..
✓	A. 1117	7.1	− 66 43	8.8	11715, 11532, 12083, 19960	Ma, Ma	..	..
.	" 1214	12.9	− 40 26	8.2	12266, 12256, 20552, 20646	Ma?	..	..
	" 1338	19.7	− 29 1	8.2	10602, 20245, 23762	Ma	..	..
✓	" 1447	25.8	− 75 33	7.2	11705, 14358, 11732, 23772	Ma, Ma	..	..
.	" 1448	26.3	− 53 0	7.1	12034, 10622, 12357, 12636	Ma	..	..
✓	" 1458	26.8	− 38 56	8.2	12356, 14372, 12228, 12256	Ma, Ma?	..	..
.	" 1537	30.7	− 50 19	7.8	12227, 10622, 12357, 20260	Ma	..	..
.	−15° 297	35.9	− 15 23	7.8	14432, 12240, 12333, 24128	Ma	..	..
.	A. 1696	39.8	− 51 8	8	12227, 10623, 12357, 15102	Ma	..	..
.	−28° 573	44.8	− 28 16	8	12295, 10602, 12241, 15113	Ma	..	..
	A. 1882	50.7	− 58 25	7.5	11551, 12034, 17378, 17627	Ma	..	..
	" 2001	56.0	− 75 51	7.5	12076, 11732, 14358, 20261	Ma	..	..
	A. 1120	7.5	− 38 28	8.8	14372, 12256, 20552, 20646	Ma?	..	..
	" 1195	11.6	− 62 38	8	11532, 6839, 11551	Ma	..	..
	" 1348	20.2	− 61 9	8	11532, 6839, 11551, 23773	Mb	..	..
	" 1362	21.3	− 23 19	7.8	14396, 10601, 10602, 11629	Ma	..	..

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Plate 10600; Sp. G. per. ½

Plate 10360; var. ½ Very ft. Plates I 2592, 2607, 2615, B 2223, 10452, I 3042, 261, 7422, 3023, 2375, 2126, 2280, 9380, 4342, 9565, 9480, 7927, 7517, 4343, 2902, 5733, 4693, 9499, 3128, 7484 & B 10453 examined & show no evidence of var.

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1882phae.proj..890F

Additional Red Stars in 1h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Colors Sp.	A.	Cl.
A. 1628	1 35.2	− 76° 53′	8.2	14358, 23772a, 23808a	Ma	..	..
−22° 343	1 58.4	− 22 24	7.8	14397, 10434a, 12366a	Ma	..	..
+23° 187	1 19.0	+ 23 25	8.7	.. 534a, 21707a, 21972a, 26637a ..	E.	III. !!!	
+24° 221	1 23.8	+ 24 30	8.8	.. 21707a, 21972a, 26269a, 26270a ..	E.	— ? *	
+29° 252	1 24.5	+ 29 36	9.2	.. 8028a, 26269a, 26270a, 29468a.	E.	III. !!	
+37° 337	1 33.5	+ 38 3	8.4	.. 19645a ..	E.	E III or II	
					E.	III. !!	
+60° 399	1 51.4	+ 60 27	9.1	.. 2521a, 3074a, 3229a, 7496a ..	E.	IV ?	
+59° 372	1 52.7	+ 59 46	9.5	.. 2521a, 3074a, 3229a, 7496a ..	E.	III. !!	
+56° 194	1 0.4	+ 57 3	9.5	.. 19265a, 19299a, 19377a ..	E.	III. !!	
+56° 210	1 4.1	+ 56 39	9.1	.. 19265a, 19299a, 19377a ..	E.	III. !!	
+30° 180	1 5.4	+ 30 48	9.0	.. 7901a, 26269a, 29468a ..	E.	III. !!	
+56° 229	1 9.1	+ 56 50	9.5	.. 4705a, 5288a, 5403a, 7745a ..	E.	III. !!	
..	1 13.8	+ 56 58	..	.. 4705a, 5288a, 5403a, 7745a ..	E.	III. !!!	
+56° 269	1 19.0	+ 57 7	8.6	.. 5288a, 5403a, 7745a ..	E.	III. !!	
~~+32 207~~	~~1 27.1~~	~~+ 57 14~~	~~..~~	See Book 3, p. 86. ..	~~E.~~	~~III. ! IV !~~	
~~+31° 298~~	~~1 37.7~~	~~+ 32 6~~	~~8.3~~	.. ..	~~E.~~	~~III. !~~	

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* "III ?: but apparently not normal."

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continued from p. 64

Additional Red Stars in 17h.

	Ident.	R.A.	Dec.	Magn.	Plate Nos.	Colors Sp.	A.	Cl.
.	−15° 4493	17h 9.0m	−15° 47′	8.8	10126, 3775, 12062, 13153	Ma	..	..
✓	−18° 4488	13.3	−18 25	neb.	10126, 13153, 13844, 9166	Cont.?, cont, cont.	..	..
.	+1° 3417	14.5	+1 37	9.5	9572, 11754, 13405, 14169	2 Md	..	..
.	−17° 4794	17.7	−17 43	neb	10126, 9166, 13153, 17091	Cont.?	..	..
.	+2° 3312	20.8	+2 14	8.0	9572, 13405, 14169, 14180	Ma	..	..
✓	−3° 4142	32.4	−3 12	neb.	11315, 12020, 14385, 20306	Cont.?, cont,	..	..
✓	−13° 4741	40.1	−13 59	8:0	10161, 13383, 13153, 14147	Ma, Ma, Ma	..	..
.	−37° 11957	46.5	−37 4	7.6	9487, 9546, 9836, 13829	2?	..	..
.	+6° 3562	47.5	+6 48	8.5	9581, 11305, 14148, 16851	Ma	..	..
✓	−1° 3419	50.9	−1 24	8.3	9581, 13812, 11351, 24207	Ma, Ma	..	..
.	+5° 3322	1.0	+5 9	8.0	9621, 11754, 13405, 14169	Ma	..	..
.	−21° 4587	15.4	−21 27	8.6	11737, 10127, 13844, 21256			
✓	Agb. 23524	17.9	−66 12	8¼	11517, 11539, 11662, 6837	Ma, Ma, Ma	..	..
.	" 24045	38.6	−59 47	8¼	11517, 8222, 8360, 17453	Ma	..	..
.	−21° 4587	15.4	−21 27	8.6	11737, 10127, 13844, 13461	Ma	..	..
.	H.C. 17h 38	2.3	−42 17	9	13800, 10105, 13790, 19751	Ma	..	..
.	Agb. 23164	2.3	−66 29	7.8	11637, 6837, 11672, 13099	Ma	..	..
.	" 23176	2.5	−57 54	7.0	12079, 9460, 11993, 13824	Ma	..	..
.	" 23214	3.9	−43 22	7.8	13089, 10105, 13790, 19751	Ma	..	..
.	" 23216	4.4	−58 47	7.5	12079, 9460, 11993, 13824	Ma	..	..
.	−38° 11633	5.4	−38 17	8.0	13800, 9558, 13142, 17037	Ma	..	..
.	Agb. 23342	9.0	−32 59	8½	13766, 6638, 11305, 20242	Ma	..	..
see ✓ 64	~~−20° 13953~~	8.8	−30 26	8.0	14152	~~Me~~	..	..
.	−40° 11298	11.6	−40 40	9.3	13800, 13142, 13790, 19751	Ma	..	..
.	−36° 11473	18.0	−36 22	7.8	13795, 9558, 13142, 17037	Ma	..	..
.	−34° 11675	18.6	−34 6	10	13850, 6638, 12046, 20242	O	..	..
.	Agb. 23596	19.7	−37 2	8	13795, 9558, 13142, 17037	Ma	..	..
.	−20° 4770	20.9	−20 40	8.9	13844, 10127, 11737, 13796	Ma	..	..
.	−18° 4536	22.7	−18 13	8.7	13795, 9166, 10126, 13153	Ma	..	..
.	H.C. 17h 1595	25.8	−62 55	8.2	12079, 11517, 11661, 17043	Ma	..	..

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1892phae.proj..800F

Plate 9572; G, f and h S bright. "Examined Feb. 8, 1894 & var. confirmed. E. C. P."

Plate 11315; bel.?

Plate 9487; F line h.? Not confirmed on Pl. B. 9828 Sp. Cl. K.

V Type.

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1882phae.proj..890F

Additional Stars in 17h.

Ident.	R. A. 1900	Dec. 1900	Mag.	Plate Nos.	class	Sp.	A.	Cel.
-33° 12159	17h 26.0m	-33° 43′	8.5	13850, 11388, 12046, 20242	Ma		..	..
-14° 4707	32.7	-14 3	7.8	13153, 10126, 12062, 17033	Ma		..	..
-35° 11829	35.7	-35 12	9.9	13795, 12046, 14368, 20509	N		..	..
Zb. 17h. 2303	36.1	-60 28	8 1/2 9	11994, 8222, 11517, 21748	Mb		..	..
Agb. 24081	39.8	-41 15	7 1/2	12195, 12222, 14361, 17042	Ma		..	..
" 24088	40.4	-57 42	8 1/4	12079, 11509, 11985, 17453	Ma		..	..
-19° 4709	43.3	-19 58	9.5	13846, 13135, 13454, 17091	C		..	..
Zb. 17h. 2844	44.0	-50 10	8 1/2	13445, 12260, 19938, 19961	Ma		..	..
Agb. 24172	45.2	-78 22	7 3/4	13443, 7708, 13470?, 19008	2		..	..
-24° 13575	46.8	-24 12	8.2	13846, 9826, 11737, 13433	Ma		..	..
-30° 14925	48.8	-30 35	8.5	13795, 13434, 13823, 20123	Ma		..	..
-24° 13657	49.2	-24 40	8.7	13796, 9826, 11737, 13433	Ma		..	..
Agb. 24355	51.2	-56 14	7.2	11994, 11509, 11985, 17453	Ma		..	..
" 24404	53.0	-55 58	7 1/2	11994, 11509, 11985, 17453	Ma?		..	..
" 24517	56.7	-39 24	8	12244, 13785, 9565, 9836	Mb, Ma		..	..
-18° 4773	58.0	-18 32	8.6	13454, 13802, 23025, 24169	Ma		..	..
-39° 12196	58.2	-39 20	9.0	13785, 9836, 9565, 19873	N		..	..
Zb. 17h. 3901	59.4	-43 38	8	12244, 13451, 12222, 21880	Ma, Mb?		..	..
" 17h. 3874	59.8	-66 38	8	11540, 11661, 11662, 11673	Ma		..	..
-15° 4775	55.6	-15 21	8.2	13757, 13802, 23025, 24169	Ma		..	..
Agb. 24254	47.1	-64 48	8	11540, 11661, 11662, 20144	Ma		..	..
" 23704	24.8	-61 27	7.5	11661, 11517, 12079, 17043	Ma		..	..
+28° 2662	0.9	+28 49	8.1	.. 25475?	..		E.	III !!
+36° 2843	10.9	+36 29	7.8	.. 22881, 22968	..		E.	III !!!
+29° 2978	13.7	+29 1	7.0	.. 25475	..		E.	III !!
+28° 2745	23.5	+28 39 49	8.2	.. 25475	..		E.	III !!
+29° 3054	30.5	+29 ~~50~~	8.1	.. 25475	..		E.	III !!
+28° 2834	43.9	+28 24	9.2	.. 1057, 25475	..		E.	III !!!
+30° 3068	47.0	+30 8	8.3	.. 1057, 1905, 1991, 25475	..		E.	III !!

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1002phae.proj..890F

Plate 13795, Na. Very ft. 1.0 1.0; 0.6 0.6; var. confirmed". Comparison stars good, so that the small change is clearly shown. Aug. 6, 1896. E. C. Pickering. Plates examined & variability of 3 or 4 tenths of a magn.

Plate 13846, V Type ?

Plate 13443, Ma ?

Plate 13785, Na 0.7, 1.0; 0.7, 0.6; var.

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Continued from p. 92.

Additional Red Stars in 6h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Stars Spectrum.	A.	bl.
Zc. 6h. 2052	6h. 42.8	-52° 16′	8	13007, 10697, 12650, 12780	Ma	..	..
-20° 1589	6 44.5	-20 19	9.0	12631, 3193, 20535, 22312	Ma	..	..
-18° 1582	6 47.7	-18 31	9.0	12631, 18975, 22312, 24953	Ma	..	..
A. 8672	6 51.4	-36 12	8.2	12657, 20534, 20670	Ma	..	..
+41° 1356	6 0.3	+41 12	8.5	.. 24526	..	E.	III .!!!
+24° 1256	6 19.0	+24 13	9.3	.. 19793, 19826, 21977	..	E.	III .!!
+42° 1571	6 27.6	+42 34	9.3	.. 495, 24526, 24537, 28470	..	E.	III or II IV .!!
+34° 1470	6 43.6	+34 20	8.9	.. 3258, 12218	..	E.	III .!!
+34° 1472	6 44.8	+34 12	9.1	.. 3258, 12218	..	E.	III .!
+35° 1508	6 45.9	+35 37 5	9.0	.. 3258, 12218, 12377, 26093	..	E.	III .!
+34° 1495	6 49.6	+34 38	8.2	.. 3258, 12218	..	E.	III .!

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continued from p. 94.

Additional Stars in 7h.

Ident.	R.A. 1900	Dec.	Magn.	Plate Nos.	Class. Sp.	A.	Bel.
~~-27° 4389~~ ~~A. 9939~~	7h 36.8m	~~-27 19 39~~ ~~-53 53~~	~~8.2~~ 0	12658, 12666 15599, 20856	Ma	..	..
A. 10084	40.8	-42 45	7.8	12765, 10698 12659 20785	Ma	..	..
-31° 5004	41.1	-31 41	9.2	12658, 15219, 15599, 20856	O	..	..
-34° 3878	42.0	-34 8	9.6	12658, 15219 18386 24341	O	..	..
A. 10149	42.4	-54 24	8.2	12757, 10615 10656, 24589	Ma	..	..
+6° 1783	43.0	+6 34	8.5	12755, 3006, 3031, 15244	Ma	..	..
-35° 3910	45.1	-35 30	8.0	12658, 15219, 18435 24341	Ma	..	..
A. 10263	46.2	-27 43	8	12658, 15219, 15599 20856	Mb	..	..
-2° 2325	47.6	-2 22	7.8	12772, 11995, 12774, 21932	Ma	..	..
A. 10458	52.2	-60 19	8.5	12764, 12763 15176 15516	2	..	..
" 10453	52.4	-47 3	7.8	12651, 10698, 12765, 18308	Ma?	..	..
*+32° 1526a	15.2	+32 15	..	.. 1964, 12219 21684 28613	..	E.	III?
+35° 1635	25.4	+35 49	7.0	.. 12219, 26094, 28613	..	E.	III!!
? ..	59.8	+61 0	..	.. 3388?	..	E.	—

* "A star omitted by the BD. see A.N. 3476 and 3478.

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1882phae.proj..890F

Plate 12658, V Type.

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 (continued from p. 46.

Additional Red Stars. 8h.

Ident.	R.A. 1900 h. m.	Dec. 1900	Magn.	Plate Nos.	Class	Sp.	A.	Cl.
A. 10707	8 12.2	-26° 28'	7.8	13092, 15158 15599 22543	M	a	..	..
-2° 2437	8 27.7	- 3 8	7.0	12774, 21932 22651 24493	M	a	..	..
-41° 3772	8 3.9	- 41 26	8	13063, 12659 13054 18289	M	a	..	..
Z.C. 8h 290	8 4.6	- 48 58	7.5	12766, 12651, 18305 18525	M	a	..	..
A. 10809	8 5.2	- 6 27	7.5	12774, 8216 21394 24456	M	a	..	..
-41° 3888	8 9.9	- 41 6	8.5	13063, 13054 13064 18289	M	a	..	..
-13° 2452	8 10.9	- 13 19	7.0	12773, 19015, 20857, 20896	M	a	..	..
A. 11096	8 13.8	- 59 45	7.8	12764, 13025, 13081, 15516	M	a	..	..
-41° 4023	8 17.7	- 41 57	8	13063, 13054 13064, 24747	M	a	..	..
-41° 4169	8 24.8	- 41 54	8	13063, 13054, 13064, 24747	M	a	..	..
Z.C. 8h 2666	8 32.8	- 51 58	7.5	13029, 12651, 12766 24598	M	a	..	..
A. 11716	8 36.0	- 53 10	8	12766, 10657, 13029, 24598	M	a?	..	..
" 11774	8 38.3	- 25 57	8.5	13144, 5524 12440, 18302	M	a	..	..
" 11889	8 42.4	- 29 23	7.8	13046, 13072, 18573 18994	M	k?	..	..
" 12071	8 48.7	- 32 12	8.8	13102, 13046 18927, 24578	M	a	..	..
" 12208	8 54.0	- 60 5	8	13082, 13036, 13081, 15189	M	a	..	..
" 12320	8 58.6	- 27 48	8	13102, 18573, 18994, 24494	M	a	..	..
" 12343	8 59.3	- 38 13	8	13022, 13055, 15221, 15318	M	a	..	..
+38° 1968	8 44.6	+ 38 24	9.0	.. 5450, 12380, 24963	..		E.	III !!

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 Continued from p. 48.

Additional Reed Stars in 9h.

Ident.	R.A. 1900 h. m.	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
A. 12915	9 24.5	-24° 35′	9	13281, 13323, 18977, 22545	Ma	..	..
-26° 7130	9 26.3	-26 23	8.4	13323, 18977, 22545, 25034	Ma	..	..
-17° 2885	9 26.8	-17 59	8.2	13323, 9114, 13154, 13280	Ma	..	..
A. 13025	9 28.3	-26 59	7.8	13323, 18977, 22545, 25034	Ma	..	..
-15° 2837	9 29.9	-15 56	7.8	13280, 9114, 13154, 17246	Ma	..	..
A 13080	9 30.3	-57 27	7.5	13082, 9284, 9374, 9398	Ma	..	..
" 13102	9 31.6	-27 5	7.5	13323, 13281, 15605, 21529	Ma	..	..
" 13195	9 36.0	-43 4	8	13032, 10750, 15318, 19157	Ma	..	..
" 13255	9 38.7	-46 25	7.2	13082, 13021, 13039, 19157	Ma	..	..
-16° 2871	9 38.9	-16 58	8.5	13347, 13154, 13280, 17246	Ma	..	..
-1° 2312	9 45.9	-1 33	8.9	13393, 13369, 22752, 22970	N	..	..
A. 13398	9 45.3	-55 2	7.8	13082, 9374, 9398, 12890	Ma	..	..
-17° 2994	9 48.6	-17 27	7.8	31632 13280, 13156, 13347, 17246	Ma, Mb	..	..
+0° 2582	9 49.9	+0 17	8.2	13393, 19340, 19341	Ma	..	..
A 13683	9 57.2	-56 28	6.8	12890, 9374, 9398, 13083	Ma	..	..
-14° 3016	9 59.3	-15 10	8.8	13156, 549, 13347, 13349	Ma	..	..
+39° 2210	9 3.4	+39 6	8.8	.. 12380, 24963	..	E.	III !!!
+25° 2109	9 25.3	+25 29	8.5	.. 10934, 20251, 24997, 26632		E.	III !!
Z.C. 3609	9 47.0	-70 18	9	5900, 9488, 9489, 22988	Mb	..	..

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Plate 13393, Na 0.5 Nem.

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Continued from p. 134

Additional Red Stars in 10^h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	class	Sp.	A.	cl.
+46°1685	$10^h\ 56^m.5$	+46°	9j 8:6	a 3511, a 2496, a 2663			E.	III.!!

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Continued from p. 132

Additional Red Stars in 11h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Letters Sp.	A.	Cl.
Z.C. 11h 1883	11 28.m2	− 44° 13′	8	13389, 13033a, 13166a, 13118a	Ma	..	..
L.DM.-41°6787	11 44.1	− 41 12	10	13389, 9408a, 13157a, 13389a	Md	..	..
+49° 2086	11 43.0	+ 49 5	8.3	..	..	E.	III !!

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Plate 18889. Var. H_f = 1.0; H_S = 2.0.

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 (continued from p. 54.

Additional Red Stars in 12 h.

Ident.	R.A. 1900 h. m.	Dec. 1900	Magn	Plate Nos.	Class Sp.	A.	Cl.
A 16763	12 12.3	- 33 57	8.5	13326, 13842, 15604, 18965	Ma	..	..
" 16780	13.0	- 50 41	8	12886, 19023, 19024, 21454	Ma	..	..
" 16841	16.3	- 29 55	8.5	13326, 9534, 22825, 22851	Ma	..	..
-34° 8125	18.9	- 35 5	8.6	13326, 13842, 15604, 13872	Mc	..	..
Z.C. 12h 1292	22.2	- 46 14	8.5	13782, 9378, 13447, 15605	Q	..	..
-37° 7905	24.0	- 37 42	8.8	13842, 9378, 13782, 18965	N	..	..
A. 17036	24.8	- 46 2	8.8	13447, 9378, 13782, 15605	Ma	..	..
" 17043	25.3	- 35 41	8.8	13842, 13326, 15604, 18965	Ma	..	..
" 17085	26.7	- 42 59	8.2	13447, 9378, 13782, 15605	Ma	..	..
" 17097	27.4	- 37 31	8.2	13842 9378, 13782, 18965	Ma	..	..
" 17203	33.3	- 44 41	7.5	13782, 9378, 13447, 15605	Ma	..	..
" 17257	35.6	- 31 11	7.8	13076, 15604, 21432, 22825	Ma	..	..
" 17289	36.6	- 37 23	9	13158, 9433, 13158, 18965	Ma	..	..
" 17348	39.1	- 71 10	7.8	13096, 13024, 16723, 19977	Ma	..	..
" 17614	51.5	- 11 24	7.3	13372, 19019, 19032, 24979	Ma	..	..
" 17767	58.8	- 60 54	8½	13794, 9375, 13438, 19869	Ma	..	..
C.D.M. -44° 8200	39.4	- 44 14	9.1	11397, 9433, 13447, 13782	Ma	..	..
Z.C. 12h 3432	59.8	- 63 59	8.5	13439, 9456, 19892, 21746	Ma	..	..
+17° 2439	4.1	+ 17 45	6.8	31719	Ma	..	..

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1002phee.proj - 8905

Plate 13782. "An examination of the object on B 13447 shows no sec. Probably due to defect on B 13782. W. Pleming Dec 6, 1897."

" 13842. Na 0.5 1.0; 0.4 0.3; New.

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 Continued from p. 136.

Additional Stars in 13h.

Ident.	R. A.	Dec.	Magn.	Plate Nos.	Class Sp.	A.	Cl.
A.G.C. 19008	13h 57m.6	-41° 23′	8	13060, a 11297, a 13121, a 21531	Ma	..	..
-8° 3692	59.6	- 8 43	var.?	12732, a 19006, a 19143, a 19374	?	..	..
Z.C. 13h 1660	29.2	- 57 10	8.8	1165-9, a 8313, a 11264, a 19853	Ma	..	..
" 13h 1695	29.8	- 54 26	8	1165-9, d 9484, d 13449, a 19924	Ma	..	..
A.G.C. 18706	40.7	- 52 47	8	1165-9, a 8321, a 9484, a 15613	Ma	..	..

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Plate 12732; 60 ft. N.S. R R Virginis.

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(continued from p. 138.)

14h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	class	Sp.	A.	el.
-19° 3991	14h 52.9	-19° 19'	8.5	9403, 11384, 15104, 25273	Ma		..	..
✓ BD. -22° 3879	14 54.7	-22 27	8.0	9403, 13151, 10120, 25038	Ma, Ma		..	..
✓ -38° 9442	14 25.6	-38 7	8	9755, 11753, 13060, 13078	Ma, Ma		..	..
-30° 11166	14 1.2	-30 37	8.0	13783 11311, 13159, 14151	Ma		..	..
-6° 3955	14 10.5	-7 12	7.2	13365, 19006, 19143, 21841	Ma		..	..
-32° 10000	14 12.1	-32 32	8.2	13783, 9755, 19396, 25507	Ma		..	..
+2° 2807	14 17.7	+2 8	8.7	13815, 11496, 13411, 13364	Ma		..	..
Agb. 19471	14 18.0	-27 42	8¾	13166, 9544, 11311, 13168	Ma		..	..
-14° 3964	14 23.8	-14 56	8.2	13365, 11388, 12918, 21381	Ma		..	..
+1° 2939	14 23.9	+1 31	8.9	13411, 11496, 13364	Ma		..	..
-6° 4012	14 24.9	-6 38	8.2	13815, 11497, 19143, 21841	Ma		..	..
+4° 2878	14 27.3	+4 36	7.5	13411, 11496, 13398, 13734	Ma		..	..
Agb. 19762	14 30.5	-57 2	8	13086, 11508, 19909, 23018	Ma		..	..
-2° 3873	14 33.2	-3 11	7.0	13373, 11497, 11383, 14186	Ma		..	..
-4° 3736	14 37.2	-4 40	8.0	13815, 11497, 13373, 14186	Ma		..	..
Agb. 19944	14 38.3	-27 55	8½	13069, 9544, 13169, 18966	Ma		..	..
+5° 2920	14 42.0	+5 17	9.0	13734, 11382, 11496, 13411	Mb		..	..
Agb. 20073	14 43.8	-59 5	7	13086, 8314, 13887, 22927	Ma		..	..
Zb. 14h 2680	14 43.9	-56 9	8½	11524, 14131, 19917, 19925	Ma		..	..
-5° 3953	14 44.1	-5 22	8.0	13815, 11383, 13373, 14186	Ma		..	..
Agb. 20091	14 44.3	-49 24	9½	11688, 19029, 19925, 23024	Ma?		..	..
+2° 2869	14 44.6	+1 55	8.1	13373, 11382, 11496, 13411	Ma		..	..
-7° 3911	14 44.9	-7 27	9.0	13809, 11383, 11497	Ma		..	..
Zb. 14h 2803	14 45.9	-56 28	8	11524, 13086, 14131, 19917	Ma		..	..
+12° 2753	14 46.3	+12 35	8.0	13398, 13734, 19011	Ma		..	..
Agb. 20375	14 56.2	-31 12	8½	13404, 11313, 11516, 13079	Ma		..	..
+24° 2796	14 50.4	+24 8	7.8	.. 698, 870, 903, 24949	..		E.	III !!
-12° 4019	14 13.8	-12 58	8.7	31756	Mb		..	..

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See note in A.G.C. about magnitude which in the Z.C. is 7 1/2.

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 Continued from p. 140

Additional Stars in 15h.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Class	Sp.	A.	Bel.
A.G.C. 20883	h. m. 15 20.3	− 65° 32′	7 1/4	115-25, a 14132, a 19750, a 19871	M a		..	..
Z.C. 15h 1245	20.4	− 64 42	8 1/2	13098, a 14132, a 19750, a 19871	M a		..	..
A.G.C. 20967	23.3	− 53 1	7 1/4	12897, a 11327, a 11680, a 19932	M a		..	..
Z.C. 15h 1713	27.0	− 50 31						
~~Computed position~~	~~26.7~~	~~− 71 34~~	8	13827, a 11327, a 11680, a 19932	M a		..	..
A.G.C. 21128	30.6	− 58 27	7 3/4	11669, a 9457, a 19854, a 23021	M a		..	..
" 21199	33.2	− 44 42	8	11689, a 7948, a 19404, a 19654	M a		..	..
Z.C. 15h 2138	33.5	− 65 42	8 1/2	13098, a 11660, a 11670, a 21788	M a		..	..
" " 2149	33.6	− 65 36	9	11660, a 9459, a 11670, a 21788	M c		..	..
+6° 3096	41.3	+ 6 25	8.2	13810, a 9467, a 9475, a 19034	M a		..	..
−20° 4329	43.1	− 20 9	7.7	13133, a 12735, a 18967, a 22822	M a		..	..
A.G.C. 21420	43.2	− 46 43	8	11689, a 11696, a 20157, a 21248	M a		..	..
Z.C. 15h 3305	49.6	− 65 39	8 1/2	13774, a 9459, a 11660, a 11670	M a		..	..
−18° 4196	49.9	− 18 30	8.6	13133, a 12735, a 22822, a 25276	M a		..	..
A.G.C. 21652	54.0	− 62 51	8	11660, a 9459, a 13774, a 21769	M a?		..	..
" 21733	57.3	− 56 4	7 3/4	13088, a 9457, a 19910, a 21734	M a		..	..
+23° 2780	4.9	+ 23 18′	8.7	.. a 24950	..		E.	III !!
+24° 2869	24.2′	+ 24 2	8.1	.. a 24950	..		E.	III !!
+24° 2947	53.6	+ 24 41	7.8	.. a 6221, a 7063, a 7116, a 28823			E.	III !!

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 Continued from p. 144 & 62.

Additional Stars in 16h.

Ident.	R.A. h. 1900 m.	Dec. 1900	Magn.	Plate Nos.	Class Sp.	A.	Cl.
-24° 13058	16 57.7	- 24° 42′	9.0	13843, a 7540, a 7702, a 10127	Mb	..	..
Z.C. 16h. 3944	58.4	- 73 32	8.8	11961, a 11726, a 11746, a 13470	Ma	..	..
-29° 13185	59.5	- 29 31	8.3	13843 14152 a 9765, a 19855	Ma, Mb	..	..
+33° 2777	41.4	+ 33 40	8.4	.. a 15081, a 15115, a 22881, a 25479	..	E	III.!!
+29° 2824	21.1	+ 29 28	8.9	31721 .. a 23137	Mb	E.	III.!!!
+29° 2840	26.9	+ 29 25	8.5	.. a 23137	..	E.	III.!!
Approx. Pos.	2.7	- 63 47	..	11527	A	..	..
+29° 2784	6.9	+ 29 23	8.8	31721	Mb	..	..

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"The peculiarity in this spectrum is caused by the superposition of the images of two stars."

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Continued from p. 172

Additional Stars in 17^{h}.

Ident.	R.A. 1900	Dec. 1900	Magn.	Plate Nos.	Spectrum	A.	Cl.
+33°2976	17 48m.4	+33° 56′	8.5	.. a 1905, a 1991, a 15829, a 22882	..	E.	III.!!
+33 2996	17 53.7	+33 48	8.5	.. a 1905, a 1991, a 15829, a 22882	..	E.	III.!!
+20° 3519	17 31.2	+20 46	9.2	31722	Mb	..	..
+17° 3318	17 38.6	+17 44	8.0	31722	Mb	..	..
Apprx. Pos.	17 41.4	+18 54	..	31722	Mc5d	..	..
+18° 3457	17 42.0	+18 41	8.9	31722	Mb	..	..

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15 chart plates examined show var. of about 0.6 magn.

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Continued from p. 148.

Additional Stars in 18h.

Ident.	R.A.	Dec.	Magn.	Plate Nos.	Class Sp.	A.	Cl.
See p. 148.							
~~-16° 4861~~	~~18h 19.1m~~	~~-16° 20'~~	~~8.3~~	~~13802~~	~~Ma~~	..	..
Agl. 25097	18 19.3	-42 35	7 1/2	13452, 11488, 12244, 21880	Ma	..	..
-13° 4995	18 23.2	-13 2	8.5	13802, 14392, 23025, 24164	Ma	..	..
Agl. 25217	18 23.2	-25 19	7.0	14355, 7743, 9771, 14352	A2:	..	..
-38° 12843	18 23.4	-38 29	9.5	13830, 9547, 19873, 20183	N	..	..
Agl. 25177	18 23.4	-71 23	7 1/4	11711, 11674, 14639, 15606	Ma	..	..
-26° 13218	18 23.7	-26 5	9.1	14355, 11322, 14142, 14352	2	..	..
Agl. 25263	18 26.0	-72 3	8 1/2	11961, 11674, 14639, 15606	Mb	..	..
√ " 25278	18 26.3	-66 58	8 1/2	11540, 11661, 11662, 11673	Ma, Ma	..	..
-14° 5105	18 27.7	-14 11	8.7	13757, 11321, 14619, 14620	Ma	..	..
-39° 12796	18 32.8	-39 29	8.0	13830, 6645, 9547, 20183	Ma	..	..
Agl. 25467	18 33.9	-48 11	6.9	12907, 9589, 11501, 20093	Mb: 2:	..	..
-37° 12785	18 34.4	-37 35	8.5	13786, 13830, 9547, 20183	Ma, Mt5c	..	..
Zc. 18h 1981	18 35.9	-45 53	9 1/2	12279, 9589, 11501, 20093	Mb	..	..
Agl. 25536	18 36.3	-29 35	8 1/4	12047, 11322, 14142, 14352	Ma	..	..
" 25567	18 38.0	-48 34	7 3/4	12907, 9589, 11501, 20093	Md:	..	..
-33° 13537	18 39.3	-33 26	9.7	13851, 14634, 20243, 20396	O	..	..
Agl. 25669	18 41.7	-41 0	7 1/4	13830, 6661, 9779, 12279	Ma:	..	..
-39° 12925	18 42.3	-39 45	8.7	13830, 6936, 13786, 20082	Ma	..	..
Agl. 25718	18 43.2	-34 38	8	13830, 13851, 14634, 20396	Ma	..	..
" 25848	18 48.9	-64 7	7.1	11578, 8597, 8621, 20145	Ma	..	..
" 25844	18 49.6	-76 15	8	11711, 11719, 11727, 14639	Ma	..	..
Zc. 18h 2673	18 50.4	-46 52	8 1/2	13779, 11501, 11772, 20452	Ma	..	..
-29° 15574	18 52.4	-29 38	8.9	13852, 10255, 13435, 20396	At: 2	..	..
-28° 15334	18 58.7	-28 22	10	13852, 9813, 14683, 20208	O: Md:	..	..
Agl. 25119	18 20.9	-63 13	8	11661, 6808, 11540, 13471	Ma	..	..
Zc. 18h 606	18 11.5	-63 18	8.5	11661, 6808, 11540, 13471	Ma	..	..
Agl. 25530	18 36.9	-64 9	8	11661, 8597, 8621, 11540	Ma	..	..
+6° 3885	18 35.3	+6 31	8.7	.. 3829, 11065, 11169, 17354	E.	III.!!	

Continued in Bk. 3, p. 186

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Plate 14355; Hβ bright ?

Plate 13830; Nd 0.4 1.0, 0.5 1.0, 0.3 0.9. Besides the two principal bands the spectrum has a third band midway between them.

Plate 14355, cont., or hydrogen lines very narrow ? H & K wide.

Plate 13786; DM. -37° 12784 18^{h} $32^{m}.7$ -37° 37' Mag. 10 superposed & may affect class of spectrum.
" 13836; " " " " " " " " " " but class of spectrum is not affected.

Plate 12907 } Var. ?; Hγ = 1.0 ; Hδ = 1.0 ? Chart plates 3716, 3755 4069, 4347, 4984, 4990, 4991, 5420, 5422, 5991, 6130, 9214, 11759, 11938, 12172, 12173, 9690, 9692, 9694, 11939 B series examined July 9, 1895, & slight, if any evidence of variation found. There are all the chart plates of this region at this date.

Plate 13851 } Gas. Neb. Error of about 2' in Dec. in D.M. Cat. ? Should be about -33° 2816 instead of -33° 266 (1875 pos.) ? compare with surrounding plates, & see note in Mrs. F.'s book 3, page 211. Comparison with Chart plate B 6111 proves this to be a Gas. Neb. Lucie 5000 very strong.

Plate 13857; Nd. 0.8 1.0; 0.9 0.9; 0.4 0.4

Plate 13852; Var. ? Chart plates 3422, 3877, 3878, 4162, 4349 5256, 5266, 5994 5995, 5997, 8715, 9241, 8716, 10041, 12547, 13592, 14088 examined & show no evidence of variation.

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Additional Stars in 19 h.

Ident.	R.A. 1900 h. m.	Dec. 1900	Magn.	Plate Nos.	Cl.	Sp.	A.	Cl.
+15°3895	19 35.4	+15° 18′	9.2	a 13714, a 14612, a 14630, a 18550			E.	III !!
"	19 42.9	+15 48	"	a 4619, a 13714, a 14612, a 18596			E.	IV ?
+24°3902	19 46.0	+24 41	9.2	a 11224, a 11241, a 23123, a 27920			E.	B. III ?, IV ?
✓ +31°3864	19 54.5	+31 12	8.4	4480, 3800, 15219, 1978	Ma, Ma, Ma		E.	III !!
~~+9°4069~~	~~19 56.3~~	~~+9 14~~	~~8.7~~				~~E.~~	~~IV !~~
+3° 4045	19 25.7	+3 26	9.2	a 10124, a 12039, a 14393, a 20567	Ma		"	"
−2° 5022	19 25.8	−2 15	7.7	a 10124, a 10125, a 10354, a 24449	Ma		"	"
✓ +4° 4209	19 39.5	+4 56	8.7	10123, 11553, 10128, 24040	Ma, Ma		"	"
+4° 4250	19 46.5	+4 13	9.5	10124, 10129, 17057, 24040	Ma, Md		"	"
+0° 4379	19 54.8	+0 23	8.6	10154, 10129, 14670, 17057	Ma		"	"
Agb. 26200	19 3.1	−50 30	8 1/4	10107, 11494, 19939, 20136	Mb		"	"
+4° 4048	19 12.1	+5 3	9.2	12039, 9624, 14171, 23239	Ma		"	"
Agb. 26560	19 18.2	−57 7	8	11510, 8622, 10439, 11543	Ma		"	"
+5° 4154	19 23.3	+5 20	8.7	12039, 10123, 10124, 11553	Ma		"	"
−10° 5155	19 36.6	−10 20	9.0	a 12021, a 11391, a 11393, a 16854	Ma		"	"
Z.C. 1672	19 41.3	−49 46	8	a 10107, 9605, a 12270, a 19963	Ma		"	"
Agb. 27504	19 59.7	−16 40	8.0	a 12021, a 9801, a 14178, a 14419	Ma		"	"
Agb. 26220	19 3.7	−26 49	8 1/2	a 12047, a 14683, a 20208, a 23033	Ma		"	"
" 26251	19 5.0	−27 13	8 3/4	a 13852, a 14683, a 20208, a 23033	Ma		"	"
" 26274	19 5.8	−38 57	8 1/4	a 13786, a 9559, a 14135, a 14589	Ma		"	"
" 26447	19 13.6	−36 24	8 1/4	a 13852, a 9559, a 14135, a 14589	Ma		"	"
" 26466	19 14.4	−28 11	8.7	a 13768, a 9813, a 14683, a 20208	Ma		"	"
−30° 16983	19 17.2	−30 26	8.0	13759, 9813, 14683, 20208	Ma		"	"
−34° 13711	19 23.2	−34 50	8.5	a 13852, a 9780, a 19929, a 23725	Ma		"	"
−33° 14266	19 23.9	−33 2	9.7	a 13852, a 9780, a 19929, a 23725	Ma		"	"
Agb. 26738	19 25.8	−33 58	8.8	a 13852, a 9780, a 19929, a 23725	Ma		"	"
" 26736	19 26.3	−62 58	8 1/2	a 11529, a 11512, a 13472, a 19013	Mc		"	"
−22° 5154	19 28.2	−22 20	8.8	a 13759, a 10135, a 12253, a 19904	Ma		"	"
Agb. 26785	19 28.9	−69 34	7.3	a 11711, a 6784, a 11986, a 13777	Ma		"	"
" 26926	19 34.3	−20 47	7.8	a 14419, a 9801, a 12253, a 19904	Ma		"	"

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Plates 10129 var. "Plates examined and var. confirmed Oct. 23, 1894. E.C.P."

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Additional Stars in 19h.

Ident.	R.A. h. 1900 m.	Dec. 1900	Magn.	Plate Nos.	Colors	Sp.	A.	Cl.
Afb. 26944	19 35.4	−54° 2′	8 1/4	11697, 9680, 17028, 23029	a a a	Ma	..	..
" 26978	19 36.6	−44 23	7 1/4	11536, 11502, 13437, 13760	a a a	Ma	..	..
" 27082	19 40.8	−26 44	7 3/4	12253, 13436, 14137, 19904	a a a	Ma	..	..
−19° 5628	19 45.8	−19 28	7.8	12253, 9801, 12253, 19904	a a a	Ma	..	..
Afb. 27211	19 47.8	−63 44	8	11996, 11512, 13472, 13775	a a a	Ma	..	..
Computed Pos.	19 52.4	−2 9	..	13416, 10355, 20397, 22023	a a a	Md	..	..
" "	19 58.7	−8 10	..	13416, 10156, 11391, 14149	a a a	Md?	..	..
Z.C. 19h 2287	19 58.2	−60 39	8 1/2	11512, 11511, 19013, 21858	a a a	Ma?	..	..
Afb. 27484	19 59.2	−44 38	8 1/4	11536, 6669, 9601, 13787	a a a	Ma?	..	..
" 27475	19 59.7	−71 56	7.5	11711, 13777, 13778, 20541	a a a	Ma	..	..
+27° 3362	19 18.5	+27 43	9.4	.. 1335, 1573, 4167, 21597 ..	a a a a		E.	III
+37° 3622	19 46.4	+37 7	9.4	.. 2331, 7350, 11222, 25622 ..	a a d a		E.	III.!!!
+26° 3750	19 54.7	+26 36	9.5	.. 11224, 11241, 23123, 27920 ..	a a a a		E.	III.!!!
+36° 3792	19 54.8	+36 55	9.2	.. 2331, 7350, 11222, 25622 ..	a a a a		E.	III.!!
+36° 3812	19 56.8	+36 51	9.0	.. 2331, 7350, 11222, 25622 ..	a a a a		E.	III.!!!
..	19 58.1	+39 46	..	.. 132, 2331, 7350, 9455 ..	a a a a		E.	IV.!!

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Plate 13416; var. H_J = 1.0; H_S = 1.2 "Plates examined + variability confirmed Oct. 25, 1895, E.C. Pickering." Announced by Espin July 15, 1895.

Plate 13416; var. H S h. "Plates examined + variability confirmed Oct. 25, 1895. E.C. Pickering."

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(continued from p. 158

21 L.

Ident.	R.A. 1900 h. m.	Dec. 1900 ° ′	Magn.	Plate Nos.	Class. Sp.	A.	Cl.
-5°5593	21 h 31.7	-5° 14	8.5	12371, 10117, 10379, 13822	Ma	..	..
-9°5881	21 53.9	-9 26	8.7	12254, 10387, 13513, 14428	Ma	..	..
-8°5789	21 58.3	-7 56	8.3	12041, 10388, 14428, 14894	Ma	..	..
-6°5673	21 1.0	-6 40	9.3	12022, 14379, 16849, 2779	Ma	..	..
Alg.6. 29041	21 6.6	-75 27	8½	11713, 19964	Ma	..	..
" 29050	21 6.7	-70 56	8½	11730, 11713, 19966, 20542	Ma	..	..
" 29250	21 14.7	-60 17	7¾	11542, 8611, 8651, 11995	Ma	..	..
CDM.-41°14480	21 14.9	-41 47	8	13793, 11692, 17098, 20493	Ma	..	..
Alg.6. 29273	21 15.2	-43 50	8	11692 14363 17098, 20493	Ma	..	..
-8°5657	21 22.4	-8 47	7.8	13822, 10379, 12022, 16849	Ma	..	..
-3°5216	21 23.1	-3 2	7.8	13822, 10117, 12309, 12371	Ma ?	..	..
-19°6117	21 27.6	-19 0	8.7	13805, 10401, 14621, 16265	Ma	..	..
-23°17047	21 34.7	-23 37	neb.	12372, 11394, 13805, 19914	Cont.	..	..
-18°5998	21 38.0	-17 51	8.2	13805, 10401, 14621, 16265	Ma	..	..
Z.6. 21h 1117	21 38.0	-69 8	8	11722, 13553, 14641, 20428	Ma ?	..	..
-19°6161	21 41.8	-19 32	8.8	13805, 9834, 19022, 20513	Ma	..	..
Z.6. 21h 1304	21 43.8	-69 56	8½	11722, 13553, 14641, 20428	Ma	..	..
Alg.6. 29901	21 46.2	-37 48	8¾	13854, 9824, 12088, 20512	Mc	..	..
-19°6177	21 46.3	-19 19	9.0	13805, 9834, 19022, 20513	Ma	..	..
+5°4928	21 56.1	+5 39	9.1	13512, 10174, 10345, 14693	Md	..	..
Alg.6. 29979	21 49.8	-23 46	8¼	13805, 1962, 20139, 20530	Ma	..	..
Z.6. 21h 1747	21 57.0	-62 21	8	11514, 9681, 11997, 19898	Ma	..	..
+25° H554	21 26.9 H	+25 21	9.0	.. 1270, 2232, 2249, 5301 ..	E.	III !!!	
+25° H626	21 H5.5	+25 32	8.8	.. 27807 ..	E.	III !!	
+25° H658	21 56.1	+26 0	8.2	.. 27807 ..	E.	III !!	
..	21 6.5	+42 21	..	.. 5342, 13508, 15164, 23968 ..	E.	B	
+45° 3434	21 6.9	+45 50	8.8	.. 5342, 13508, 15164, 23968 ..	E.	III, var?	
+30° H352	21 8.1	+30 30	8.2	.. 4608, 4653, 5287, 19034 ..	E.	III ?	
+37° H239	21 10.8	+37 54	9.4	.. 2256, 4569, 5324, 13489 ..	E.	III !!!	

(continued in Bk. 3, p. 192.

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Plate 12372. Cl. or neb.? N.G.C. 7099.

Plate 13512, var. Nov. H_γ = 1.0, H_δ = 0.9, H_ε = 0.2." Plates examined & var. confirmed Nov. 6, 1895, E.C. Pickering.

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22h.

Ident.	R.A.	Dec.	Magn.	Plate Nos.	Colors Sp.	A.	bl.
Alb. 30205	22h 0.3m	−65° 36′	7.3/4	11722, 11514a, 11997a 19898	Ma	..	..
" 30234	22 1.8	−59 47	7.5	11514a, 11997a, 19407a 20558	Ma?	..	..
" 30511	22 16.6	−69 27	9	11721, 6817a 11774a 14375	Ma	..	..
−21° 6213	22 18.1	−20 48	8.5	13841a 11794a 13832a 14874	Ma	..	..
−22° 5916	22 22.4	−22 22	8.0	13841a 13856a 14874a 24338	Ma	..	..
Alb. 30655	22 23.6	−30 30	7 1/2	11767, 11503a 12032a 14637	Ma?	..	..
CDM.−35 15390	22 28.5	−35 21	8 1/2	12032a 11767a 13855a 14637	Ma	..	..
Alb. 30775	22 29.1	−50 30	8 1/4	12363a 9788a 14413a 19922	Ma	..	..
CDM.−35 15416	22 31.7	−35 28	8 1/2	12032a 11767a 13855a 14637	Ma	..	..
Alb. 30857	22 33.3	−51 12	7 3/4	12363a 9790a 14413a 19922	Ma	..	..
CDM.−31 18939	22 37.8	−31 0	9	12090a 11775a 11761a 14631	Ma	..	..
" −35 15478	22 37.8	−35 1	8	11757a 11761a 12246a 14637	Ma	..	..
Alb. 30951	22 38.6	−57 21	7	11549a 6794a 7994a 12081	Ma	..	..
" 31063	22 43.5	−53 50	8	12363a 9790a 14413a 19922	Ma	..	..
" 31073	22 44.1	−56 27	7 3/4	12363a 9790a 6794a 12081	Ma	..	..
+28° 4293	22 2.9	+28 28	8.8	.. ..		E.	III?
+27° 4280	22 9.1	+28 7	6.4	.. ..		E.	II
+28° 4305	22 6.1	+28 40	8.8	.. ..		E.	III!!
+23° 4484	22 7.3	+23 17	7.9	.. 27807a ..		E.	III!!
..	22 9.0	+24 54	..	.. 27807a ..		E.	III!!!
+24° 4576	22 15.2	+24 13	7.4	.. 27807a ..		E.	III!!
+27° 4314	22 20.1	+27 48	9.2	.. ..		E.	III!!
+27° 4317	22 21.5	+28 1	7.5	.. ..		E.	II?
+30° 4719	22 24.3	+31 10	8.8	.. 2373a 2434a ..		E.	III!!
+28° 4381	22 24.5	+28 32	7.0	.. ..		E.	II
+27° 4318	22 21.7	+27 56	9.1	.. ..		E.	III!!
+26° 4467	22 32.9	+27 0	8.7	.. ..		E.	III!!
+28° 4430	22 35.6	+28 23	8.7	.. ..		E.	III?
+29° 4729	22 36.5	+29 38	8.5	.. ..		E.	III!!

(continued in Bk. 63, p. 194.

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1882phae.proj..890F

Br. 3, red star.

II, III. Br. 5.

III.2 Br. 6.

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1882phae.proj : 890F

(continued from p. 15-6)

Additional Red Stars in 20h.

Ident.	R.A.	Dec.	Magn.	Plate Nos.	Obsrs.	Lp.	Authority	Cl.
−6° 5521	20h 28m.1	−6 33	7.3	10370, 8604, 14182a, 16689a	Ma, Ma		..	..
+8° 4340	20 2.6	+8 39	8.7	7552a, 10153a, 11244a, 14666a			E.	III.!!
+8° 4435	20 21.0	+8 38	8.8	10153a, 11244a, 12063a, 14666a			E.	III.!!
+40° 4210	20 27.4	+40 11	9.4	11803a, 13133a, 21231a, 23401a			E.	IV.?
+39° 4223	20 28.0	+39 32	9.2	11803a, 13133a, 21231a, 23401a			E.	III.!!
+46° 2986	20 32.2	+47 5	9.2	7673a, 7720a, 7732a, 7744a			E.	III.!! ~~var.?~~
+17° 4395	20 40.2	+17 56	9.5	13156a, 15447a, 18182a, 23107a			E.	III.!!!
+39° 4302	20 41.3	+40 3	8.8	193a, 13488a, 13529a, 16902a			E.	III.!!
+17° 4405	20 41.8	+17 33	9.1	13156a, 15447a, 18182a, 23107a			E.	III.!!
+16° 4363	20 41.8	+16 34	8.0	15447a, 18182a, 23107a, 23152a			E.	III
+39° 4322	20 44.3	+39 58	9.0	193a, 13488a, 13529a, 16902a			E.	B?, IV??
+17° 4468	20 52.7	+18 4	8.7	7542a, 7580a, 18182a, 23152a			E.	III.!!
+17° 4474	20 53.2	+17 41	9.0	7542a, 7580a, 18182a, 23152a			E.	III.!!
~~+49° 3202~~	20 4.7	+49 19	8.7					
~~+49° 3202~~	~~20 54.2~~	~~+64 7~~	..	11488a, 15957a, 23171a, 23173a	Ma		E.	..
+12° 4241	5.6	+12 26	8.5	10153a, 1608a, 11244a, 27918a	Ma		..	..
−16° 5558	13.3	−16 10	8.0	10170a, 9553a, 9843a, 20062a	Ma		..	..
+10° 4259	16.8	+10 39	8.0	10153a, 11235a, 1608a, 12063a	Ma, Ma		..	..
+9° 4546	24.2	+10 0	8.2	11522a, 10153a, 11244a, 12063a	Ma		..	..
A. 28320	34.8	−50 37	7¾	9821a, 11684a, 12049a, 11685a	Ma, Ma, Ma		..	..
A. 28329	35.1	−46 46	7¼	9821a, 12269a, 11690a, 19940a	Ma, Ma		..	..
" 28730	52.3	−3 37	8.5	10172a, 10253a, 14193a, 14658a	Ma		..	..
−15° 5565	3.1	−15 42	8.5	12021a, 14381a, 20062a, 21929a	Ma		..	..
−11° 5256	6.8	−11 38	8.7	12021a, 14172a, 14694a, 16854a	Ma		..	..
+11° 4243	17.9	+11 22	8.2	12063a, 10153a, 11244a, 14666a	Ma		..	..
A. 28324	34.6	−14 22	8.3	12290a, 10171a, 13873a, 21932a	Ma		..	..
+2° 4239	40.2	+2 55	8.5	12063a, 10316a, 14203a, 18574a	Mb		..	..
+39° 4302	41.3	+40 3	8.8	16902a, 193a, 13488a, 13529a	Ma		..	..
+° 4359	41.8	+2 4	8.9	10316a, 14203a, 14669a, 18574a	Mb5c		..	..
Est. Pos.	48.6	−7 16	..	7353a, 14379a, 16689a, 27919a	O		..	..

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1882phae.proj..890F

Plate 7353, comet. Superposed on DM. −7°5433 $20^h\ 46^m.2$ −7° 26′ 6.5

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1882phae.proj.0900F

20 h.

Ident.	R.A. h.	m.	Dec. °	′	Magn.	Plate Nos.	Class	Sp.	Authority	Obl.
Approx. Pos.	20	56.4	−5	2		7360, 14193, 14658, 27919	O		..	..
Z.C. 20h 40	20	3.7	−67	33	9	13552, 6805, 11720, 13473	Ma		..	..
CDM.-38° 13961	20	11.5	−38	7	8	11489, 10101, 14386, 20084	Ma		..	..
Z.C. 20h 410	20	15.0	−65	54	9	13552, 11513, 11720 13473	Ma		..	..
CDM.-24° 15987	20	15.3	−24	0	9.0	12030, 12301, 16264, 20125	Ma		..	..
−20° 5917	20	17.7	−20	51	8.5	12030, 12301, 16264, 20125	Ma		..	..
CDM.-29° 17041	20	18.6	−29	52	8.3	13853, 9803, 9814, 14684	Ma		..	..
" −23° 16259	20	22.3	−23	21	7.8	13804, 12301, 16264, 20125	Ma		..	..
" −27° 14847	20	24.4	−27	19	9	13853, 6567, 9814, 14684	Ma		..	..
" −34° 14474	20	28.4	−34	39	8	12288, 9870, 13769, 13853	Ma		..	..
A.G.C. 28211	20	30.6	−53	9	8¾	11684, 11685, 11691, 17029	Ma	2	..	..
CDM.-29° 17235	20	33.9	−29	9	9.9	13853, 9814, 9899, 13769	Md		..	..
" −32° 16135	20	35.6	−32	47	9.2	13853, 9870, 13769, 13853	O	2	..	..
A.G.C. 28434	20	39.3	−35	44	7.6	13853, 10244, 13769, 14138	Ma		..	..
" 28471	20	40.7	−27	36	8	13853, 9814, 9899, 12289	Mb		..	..
" 28534	20	43.3	−48	57	7.5	11684, 11690, 19005, 19940	Ma		..	..
CDM.-34° 14682	20	45.9	−34	16	8	13853, 10244, 13769, 14138	Ma		..	..
A.G.C. 28784	20	55.4	−42	28	8	13793, 11683, 17098, 20161	Ma		..	..
" 28812	20	56.3	−53	17	8	11664, 11684, 11694, 17390	Ma		..	..
" 28215	20	30.4	−37	44	7.5	11683, 10102, 12196, 20084	Ma		..	..
" 28285	20	33.4	−47	11	7.8	11683, 11690, 19005, 19940	Ma		..	..
+40° 4240	20	31.0	+40	40	6.5	.. 11328, 12269, 17063, 20481 ..	E.	II	*	
+25° 4401	20	48.4	+26	10	8.7	.. 7352, 7366, 7432, 7497 ..	E.	III	!!	
..	20	8.0	+22	32	..	.. 1663, 22831, 27792, 27920 ..	E.	B		
..	20	9.8	+36	32	..	.. 132, 2231, 2328, 18205 ..	E.	III	!!	
+46° 2892	20	12.7	+46	36	9.5	.. 1303, 1410, 1434, 23684 ..	E.	III	!!!	
+30° 3995	20	17.4	+30	32	7.6	.. 1992, 19033, 25476 ..	E.	III	!	
+31° 4046	20	17.6	+31	59	7.9	.. 1992, 19033, 25476 ..	E.	III		
+30° 4005	20	18.6	+30	56	6.5	.. 1992, 19033, 25476 ..	E.	II		

Continued in Book 3, p. 190

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1882phae.proj.0005

Plate 7360; ~~bright~~ Comet.

Plate 13853, var. $H_\gamma = \underline{1.0}$; $H\delta = \underline{1.1}$.

Plate 13853 } var.? Spectrum cont. with hydrogen lines bright. Similar to γ Cassiae?
$H_\gamma = 1.0$; $H\delta = \underline{0.7}$; $H\varepsilon = \underline{0.4}$; $H\zeta = \underline{0.2}$. Chart plates 3504, 3924, 4354, 5258, 6140, 9244, 9867, 9868, 11807, 13672, examined & show no evidence of variability.

*A.N. 137, No. 3279, p. 134, E, Br. 1, Red star.

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Continued from p. 164.

Additional Stars in 23h.

Ident.	R.A.	Dec.	Mag.	B.D.	Plate Nos.	Class	Sp.	A.	bl.
Alg. 31372	23h 0.3	−59° 19′	8.8		12033, a11431 a11717 a19899		Ma	..	..
" 31403	2.1	−36 37	8		11676 a14592, a23484, a23754		Mb	..	..
" 31502	7.9	−49 41	7.8		12282, a10407, a11704, a17105		Ma	..	..
" 31531	9.9	−58 38	7.5		11775, a10431, a12038, a19899		Ma	..	..
" 31537	10.3	−52 25	7.2		12051, a10276, a11687, a12364		Ma	..	..
" 31576	12.6	−65 51	8		11776, a10430, a11775, a19899		Ma	..	..
" 31598	13.7	−28 56	6.8		12092, a10398, a12090, a14153		Ma	..	..
" 31843	26.8	−64 13	7.5		11550, a10431, a12457, a19969		Ma 2.	..	..
" 32232	47.9	−54 56	8		14414, a10408, a14370, a19923		Ma	..	..
DM. +2° 4680	27.8	+2 50	8.3		14205, a4736, a10158, a12340		Ma	..	..
" −20° 6636	36.5	−20 19	7.8		14211		Ma	..	..
" −12° 6602	58.2	−12 30	8.3		14211, a10364, a10413, a12065		Ma	..	..
CDM −29° 18821	39.4	−29 18	9		12092, a10424, a14688, a19659		Ma	..	..
Z.C. 23h 457	18.6	−76 39	8.5		14357, a11988, a14162		Ma	..	..
" 23h 882	33.9	−76 40	8.5		14357, a11988, a14162		Mb 2.	..	..
+29° 4873	5.2	+29 18	9.1		.. a23138 ..			E.	III !!!
+23° 4690	6.6	+23 ~~+6~~ 23	9.2		.. a7620 ..			E.	III !!
+30° 4917	12.4	+31 11	8.4		.. a23138 ..			E.	III !!
W Pegasi	14.8	+25 43	..		.. a7620 a23138 a23505 ..			E.	III !!!
+49° 4087	15.2	+49 35	9.4		.. a2164 a21192 a23300 a23911 ..			E.	III !!
+26° 4660	31.1	+27 8	9.0		.. a23138 ..			E.	III !!!
+21° 4977	38.7	+21 23	7.8		.. a19059 a23505 a23711 ..			E.	III !!
+28° 4624	38.8	+28 19	8.5		.. a23138 ..			E.	III !!
+25° 5005	42.4	+25 36	7.5		.. a19059 a23505 ..			E.	III !!!
+29° 5002	43.5	+29 58	8.6		.. ..			E.	III !!!
+37° 4899	47.1	+37 17	8.7		.. 19619 ..			E.	III !!!
+34° 5025	47.7	+34 23	8.4		.. ..			E.	III !!
+26° 4716	52.2	+26 52	9.0		.. ..			E.	III !!
+30° 5085	59.1	+31 3	9.1		.. ..			E.	III !!

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