





























MF 8689

Feb 20, 1930  
Cont. from 18, 214

F.C.

2601	3	K <sub>0</sub>
2602	1	K <sub>0</sub>
2603	3	G <sub>0</sub>
2604	2	G <sub>0</sub>
2605	2	F <sub>0</sub>
2606	3	G <sub>5</sub>
2607	1	A
2608	4	A <sub>0</sub>
2609	2	F <sub>5</sub>
2610	1	K <sub>0</sub>
2611	7	K <sub>9</sub>
2612	1	M <sub>0</sub>
2613	4	F <sub>2</sub>
2614	5	K <sub>8</sub>
2615	4	K <sub>9</sub>
2616	4	A <sub>0</sub>
2617	6	K <sub>0</sub>
2618	2	G <sub>0</sub>
2619	3	A <sub>2</sub>
2620	2	K <sub>9</sub>
2621	3	F <sub>8</sub>
2622	3	K <sub>2</sub>
2623	4	F <sub>0</sub>
2624	2	F <sub>0</sub>
2625	2	K <sub>2</sub>

pre. of two

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2601	+19°	3851	18 <sup>h</sup>	51.0	+19°	45	9.5	✓	
2602			18	53.1	+19	47		✓	Not in Sm.
2603			18	53.3	+19	48		✓	Not in Sm.
2604	+19	3852	18 <sup>h</sup>	51.7	+19	52	9.5	✓	
2605			18	53.7	+19	55		✓	Not in Sm.
2606			18	53.9	+19	52		✓	Not in Sm.
2607			18	53.0	+20	6		✓	Not in Sm.
2608	+20	3999	18	51.4	+20	5	9.5	✓	
2609			18	53.2	+20	20		✓	Not in Sm.
2610			18	53.3	+20	27		✓	Not in Sm.
2611	+20	4000	18 <sup>h</sup>	51.5	+20	38	8.8	✓	
2612			18	53.7	+20	43		✓	Not in Sm.
2613			18	53.7	+20	39		✓	Not in Sm.
2614	+20	4005	18	52.0	+20	42	9.4	✓	
2615	+20	4006	18	52.1	+20	32	9.5	✓	
2616	+20	4003	18	51.8	+20	22	9.5	✓	
2617	+20	4002	18 <sup>h</sup>	51.8	+20	10	8.6	✓	
2618			18	54.1	+20	24		✓	Not in Sm.
2619			18	54.4	+20	18		✓	Not in Sm.
2620			18	54.4	+20	30		✓	Not in Sm.
2621			18	54.5	+20	27		✓	Not in Sm.
2622			18 <sup>h</sup>	54.6	+20	34		✓	Not in Sm.
2623	+20	4008	18 <sup>h</sup>	52.5	+20	44	9.5	✓	
2624			18	54.3	+21	0		✓	Not in Sm.
2625			18	54.2	+21	3		✓	Not in Sm.



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F.C.

2626	1	K <sub>0</sub>
2627	3	M <sub>2</sub>
2628	2	G <sub>0</sub>
2629	7	K <sub>0</sub>
2630	5	A <sub>2</sub>
2631	2	K <sub>2</sub>
2632	1	G
2633	2	A <sub>7</sub>
2634	1	F <sub>2</sub>
2635	5	A <sub>2</sub>
2636	1	A <sub>5</sub>
2637	3	G <sub>0</sub>
2638	2	F <sub>5</sub>
2639	2	G <sub>0</sub>
2640	1	A
2641	2	A <sub>2</sub>
2642	3	F <sub>5</sub>
2642a	7	K <sub>0</sub>
2643	1	G <sub>5</sub>
2644	1	A <sub>5</sub>
2645	3	A <sub>2</sub>
2646	3	G <sub>0</sub>
2647	1	K <sub>5</sub>
2648	3	G <sub>5</sub>
2649	1	F <sub>8</sub>
2650	2	A <sub>0</sub>

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2626		18 <sub>h</sub>	54.2 +21	4		✓ Not in dm.
2627 +21°	3624	18	52.1 +21°	3	9.1	✓
2628		18	54.2 +21	12		✓ Not in dm.
2629 +21	3625	18	52.2 +21	28	8.5	✓
2630		18	54.5 +21	33		✓ Not in dm.
2631		18	54.4 +21	20		✓ Not in dm.
2632		18	54.5 +21	16		✓ Not in dm.
2633		18	55.0 +21	30		✓ Not in dm.
2634		18	55.0 +21	34		✓ Not in dm.
2635 +21	3629	18	53.3 +21	23	9.4	✓
2636		18	55.4 +21	34		✓ Not in dm.
2637		18	55.6 +21	23		✓ Not in dm.
2638		18	55.5 +21	16		✓ Not in dm.
2639		18	55.7 +21	31		✓ Not in dm.
2640		18	55.8 +21	43		✓ Not in dm.
2641		18	55.8 +21	32		✓ Not in dm.
2642		18	56.1 +21	33		✓ Not in dm.
2642a +21	3631	18	56.5 +21	48		✓ Not in dm.
2643		18	56.8 +21	38		✓ Not in dm.
2644		18	57.2 +21	43		✓ Not in dm.
2645		18	57.2 +21	34		✓ Not in dm.
2646		18	58.3 +21	22		✓ Not in dm.
2647 +21	3638	18	56.4 +21	18	9.0	Not in dm.
2648		18	57.8 +21	17		✓ Not in dm.
2649		18	57.6 +21	20		✓ Not in dm.
2650		18	56.9 +21	14		✓ Not in dm.



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F.C.

2651	1	K <sub>0</sub>
2652	1	A
2653	7	F <sub>5</sub>
2654	4	A <sub>2</sub>
2655	1	G <sub>5</sub>
2656	1	A
2657	5	F <sub>8</sub>
2658	5	G <sub>5</sub>
2659	6	A <sub>0</sub>
2660	6	F <sub>0</sub>
2661	1	F <sub>8</sub>
2662	2	A <sub>3</sub>
2663	3	F <sub>0</sub>
2664	2	A <sub>0</sub>
2665	1	A
2666	5	B <sub>8</sub>
2667	3	F <sub>0</sub>
2668	3	A <sub>0</sub>
2669	2	F <sub>5</sub>
2670	5	A <sub>2</sub>
2671	2	A <sub>3</sub>
2672	1	G <sub>5</sub>
2672	3	K <sub>0</sub>
2674	1	G <sub>0</sub>
2675	3	G <sub>0</sub>

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2651		18	56.8	+21	11		✓	Not in Sm.
2652		18	56.2	+21	8		✓	Not in Sm.
2653	+20	4018 <sup>h</sup>	18	54.4	+20	50	9.1	✓
2654	+20	4015	18	53.9	+20	47	9.5	✓
2655		18	55.6	+20	53			✓
2656		18	55.2	+20	48			✓
2657	+20	4013	18	53.6	+20	41	9.5	✓
2658	+20	4012	18	53.2	+20	33	9.5	✓
2659	+20	4011	18	53.1	+20	29	9.4	✓
2660	+20	4010	18	53.0	+20	40	9.1	✓
2661		18	54.8	+21	4			✓
2662		18	54.7	+21	7			✓
2663		18	55.2	+20	20			✓
2664		18	55.0	+20	17			✓
2665		18	54.5	+20	16			✓
2666	+20	4009	18	52.9	+20	7	9.1	✓
2667		18	54.7	+20	0			✓
2668		18	54.5	+19	53			✓
2669		18	54.7	+19	52			✓
2670	+19	3862	18	52.9	+19	46	9.4	✓
2671		18	53.2	+20	0			✓
2672		18	54.7	+19	43			✓
2673	+19	3859	18	52.7	+19	38	9.5	✓
2674		18	54.3	+19	36			✓
2675		18	54.1	+19	28			✓



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F.C.

2676	3	F8
2677	1	K0
2678	1	K7
2679	1	M0
2680	2	G0
2681	1	M1
2682	2	K0
2683	2	G5
2684	1	K0
2685	1	G5
2686	1	K0
2687	1	K7
2688	3	K0
2689	4	F8
2690	3	G0
2691	1	K0
2692	1	A
2693	2	G0
2694	1	G0
2695	3	K2
2696	1	G0
2697	3	F8
2698	5	A5
2699	5	K5
2700	1	A3

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2676		18	53.9	+19	37		✓ hot in Sm.
2677		18	53.7	+19	41		✓ hot in Sm.
2678		18	53.4	+18	59		✓ hot in Sm.
2679		18	53.5	+18	46		✓ hot in Sm.
2680		18 <sub>h</sub>	54.2	+18	51		✓ hot in Sm.
2681	+18°	3898 18	52.4	+18°	36	9.5	✓
2682		18	55.0	+18	26		✓ hot in Sm.
2683		18	55.5	+18	14	(2)	✓ hot in Sm.
2684		18	55.6	+18	24		✓ hot in Sm.
2685		18	55.7	+18	25		✓ hot in Sm.
2686		18	56.0	+18	29		✓ hot in Sm.
2687		18	56.6	+18	27		✓ hot in Sm.
2688	+18	3903 18	53.2	+18	55	9.5	✓
2689	+19	3860 18	52.7	+19	22	9.5	✓
2690		18	55.0	+19	24		✓ hot in Sm.
2691		18	55.0	+19	25		✓ hot in Sm.
2692		18	55.0	+19	15		✓ hot in Sm.
2693		18	55.0	+19	34		✓ hot in Sm.
2694		18	55.3	+19	38		✓ hot in Sm.
2695	+19	3866 18	53.4	+19	40	9.3	✓
2696		18	55.3	+19	49		✓ hot in Sm.
2697	+19	3867 18	53.6	+19	47	9.5	✓
2698	+19	3868 18	53.6	+19	37	9.4	✓
2699	+19	3869 18	53.7	+19	54	9.3	✓
2700		18	55.8	+20	11		✓ hot in Sm. 18



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F.C.

2701	1	F <sub>2</sub>
2702	3	G <sub>0</sub>
2703	4	F <sub>0</sub>
2704	2	F <sub>0</sub>
2705	1	K <sub>7</sub>
2706	3	K <sub>7</sub>
2707	1	A
2708	1	G
2709	6	F <sub>0</sub>
2710	5	A <sub>7</sub>
2710a	1	G <sub>0</sub> K <sub>5</sub>
2711	1	K <sub>5</sub>
2712	5	A <sub>2</sub>
2713	3	F <sub>8</sub>
2714	2	F <sub>5</sub>
2715	2	M <sub>0</sub>
2716	1	G <sub>0</sub>
2717	2	A <sub>3</sub>
2718	2	M <sub>0</sub>
2719	2	F <sub>0</sub>
2720	2	F <sub>0</sub>
2721	3	A <sub>7</sub>
2722	3	K <sub>0</sub>
2723	1	A
2724	2	K <sub>5</sub>
2725	2	F <sub>0</sub>

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2701		18	56.0	+20	13		Shot in Sm.
2702		18 <sup>h</sup>	56.2	+20	3		Shot in Sm.
2703	+19°	3871	18	54.2	<del>11</del> 20	0	9.0 ✓
2704		18	56.3	+20	11		Shot in Sm.
2705		18	55.8	+20	35		Shot in Sm.
2706	+20	4017	18	54.2	+20	29	9.1 ✓
2707		18	56.4	+20	30		Shot in Sm.
2708		18	56.5	+20	28		Shot in Sm.
2709	+20	4020	18	54.7	+20	26	8.5 ✓
2710	+20	4021	18	55.1	+20	38	9.0 ✓
2710a	+20	4023					
2711		18	56.9	+20	56		Shot in Sm.
2712	+20	4024	18	55.6	+20	54	9.5 ✓
2713		18	58.0	+20	53		Shot in Sm.
2714		18	57.3	+20	40		Shot in Sm.
2715	+20	4025	18	55.8	+20	35	9.4 ✓
2716		18	58.0	+20	31		Shot in Sm.
2717		18	58.1	+20	29		Shot in Sm.
2718	+20	4027	18	56.6	+20	31	9.5 ✓
2719		18	59.3	+20	36		Shot in Sm.
2720		18	59.4	+20	36		Shot in Sm.
2721		18	59.6	+20	22		Shot in Sm.
2722	+20	4031	18	57.3	+20	20	9.2 ✓
2723		18	59.0	+20	27		Shot in Sm.
2724		18	58.9	+20	21		Shot in Sm.
2725		18	58.6	+20	22		Shot in Sm.



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F.c.

2726	5	B8
2727	3	M0
2728	3	F5
2729	2	F2
2730	4.	G5
2731	1	F8
2732	2	A3
2733	2	M0
2734	1	F5
2735	2	M0
2736	3	K5
2737	4	A2
2738	1	G5
2739	4	K0
2740	3	A0
2741	4	A0
2742	3	F2
2743	3	F2
2744	7	A
2745	2	F8
2746	2	K7
2747	2	K0
2748	2	G5
2749	2	F2
2750	1	G5

I 31862

2726 +20°	4029	18	57.1	+20°	6	9.4	✓
2727 +20	4028	18	57.0	+20	4	9.3	✓
2728		18	58.7	+20	2		✓ Not in Sm.
2729		18	58.6	+20	2		✓ Not in Sm.
2730 +19	3885	18	56.4	+19	48	9.3	✓
2731		18	58.0	+20	18		✓ Not in Sm.
2732		18	57.9	+20	18		✓ Not in Sm.
2733 +20	4026	18	56.0	+20	3	9.5	✓
2734		18	58.2	+20	8		✓ Not in Sm.
2735		18	58.1	+19	51		✓ Not in Sm.
2736 +19	3884	18	56.0	+19	45	9.5	✓
2737		18	57.7	+19	52		✓ Not in Sm.
2738		18	57.7	+20	2		✓ Not in Sm.
2739 +19	3882	18	55.4	+19	48	9.4	✓
2740		18	56.9	+20	10		✓ Not in Sm.
2741 +20	4019	18	54.7	+20	20	9.5	✓
2742		18	56.8	+19	54		✓ Not in Sm.
2743		18	56.6	+19	52		✓ Not in Sm.
2744 +19	3874	18	54.5	+19	45	8.8	✓
2745		18	56.6	+19	41		✓ Not in Sm.
2746		18	56.2	+19	17		✓ Not in Sm.
2747		18	56.8	+19	1		✓ Not in Sm.
2748		18	56.9	+19	1		✓ Not in Sm.
2749		18	56.9	+18	53		✓ Not in Sm.
2750		18	57.7	+19	4		✓ Not in Sm.



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mF 8689

F.C.

2751	1	F <sub>0</sub>
2752	3	G <sub>0</sub>
2753	3	A <sub>7</sub>
2754	3	A <sub>0</sub>
2755	3	A <sub>5</sub>
2756	2	F <sub>0</sub>
2757	3	mF <sub>2</sub>
2758	4	F <sub>5</sub>
2759	2	A <sub>3</sub>
2760	3	K <sub>0</sub>
2761	4	K <sub>0</sub>
2762	3	G
2763	3	F <sub>2</sub>
2764	3	F <sub>5</sub>
2765	2	F <sub>2</sub>
2766	5	F <sub>2</sub>
2767	3	G <sub>0</sub>
2768	2	K <sub>5</sub>
2769	4	G <sub>5</sub>
2770	5	K <sub>0</sub>
2771	2	K <sub>0</sub>
2772	1	A <sub>5</sub>
2773	1	F <sub>8</sub>
2774	1	K <sub>5</sub>
2775	1	K <sub>0</sub>

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2751		18 <sup>h</sup>	59.1 +18	47		Shot in sm.
2752 +18	3941	18	58.0 +18	53	9.5	✓
2753		19	0.3 +19	3		Shot in sm.
2754		18	59.8 +19	34		Shot in sm.
2755		19	0.1 +19	32		Shot in sm.
2756 +19	3898	18	58.1 +19	53	9.5	✓
2757 +19	3892	18	57.7 +19	58	9.2	✓
2758 +19	3899	18	58.2 +19	42	9.5	✓
2759		19	0.5 +20	11		Shot in sm.
2760 +20	4039	18	58.7 +20	1	9.3	✓
2761 +20	4040	18	58.8 +20	0	9.3	✓
2762 +19	390 <sup>5</sup>	18	59.2 +19	<del>48</del> 51	<del>8.8</del> 9.1	
2763		19 <sup>9</sup>	1.7 +20	1		Shot in sm.
2764 +20	4048	18	0.2 +20	4	9.5	✓
2765		19	2.5 +20	10		Shot in sm.
2766 +20	4051	19	0.7 +20	6	9.3	✓
2767 +19	3912	19	0.6 +19	57	9.5	✓
2768 +19	3914	19	1.0 +19	59	9.3	✓
2769 +19	3916	19	1.0 +19	37	9.5	✓
2770 +19	3917	19	1.1 +19	35	9.5	✓
2771		19	3.3 +19	29		Shot in sm.
2772		19	2.2 +19	31		Shot in sm.
2773		19	2.9 +19	37		Shot in sm.
2774		19	3.3 +19	18		Shot in sm.
2775		19	3.2 +19	8		Shot in sm.

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F. C.

2776	2	K <sub>0</sub>	f. of two
2777	1	F <sub>5</sub>	
2778	1	K <sub>5</sub>	
2779	1	K <sub>7</sub>	
2780	3	G <sub>0</sub>	
2781	3	F <sub>0</sub>	
2782	2	G <sub>0</sub>	
2783			
2784			
2785			
2786			
2787			
2788			
2789			
2790			
2791			
2792			
2793			
2794			
2795			
2796			
2797			
2798			
2799			
2800			

I 31862

2776 +19 <sup>0</sup>	3913	19 <sup>h</sup>	0.8	19 <sup>0</sup> <del>+19</del>	2	9.5	✓
2777		19	2.5	+19	26		Shot in sm.
2778		19	2.2	+19	36		Shot in sm.
2779 +19	3908	<del>49</del>	<del>5.9</del>	+19	43	9.5	✓
2780 +18	3960	19	1.2	+18	44	9.5	✓
2781 +18	3955	19	1.0	+18	48	9.4	✓
2782		19	2.0	+18	56		Shot in sm.

3









20

Feb. 21, 1930

mF 8116

F.C.

1	1	F <sub>8</sub>
2	1	F <sub>0</sub>
3	2	G <sub>0</sub>
4	2	G <sub>0</sub>
5	2	F <sub>8</sub>
6	2	F <sub>2</sub>
7	2	F <sub>0</sub>
8	3	B <sub>8</sub>
9	1	K <sub>0</sub>
10	2	F <sub>5</sub>
11	1	G <sub>0</sub>
12	3	F <sub>8</sub>
13	3	F <sub>0</sub>
14	1	G <sub>5</sub>
15	2	A <sub>7</sub>
16	3	F <sub>5</sub>
17	1	F <sub>8</sub>
18	3	A <sub>0</sub>
19	1	A <sub>5</sub>
20	2	A <sub>7</sub>
21	1	K <sub>5</sub>
22	2	A <sub>0</sub>
23	2	G <sub>0</sub>
24	4	F <sub>5</sub>
25	2	B <sub>8</sub>

lines broad.

lines double

MF 929.

Mar. 20, 1930

1		19	11.3	+19	17		Shot in dm.
2		19 <sup>h</sup>	11.1	+19	26		Shot in dm.
3	+19°	3960	19	9.1	+19°	31	9.5 ✓
4	+19	3962	19	9.2	+19	30	9.5 ✓
5	+18	4005°	19	8.4 <sup>3</sup>	+18	20	9.4 ✓
6	+18	4012	19	9.3	+18	24	9.5 ✓
7		19	11.2	+18	44		Shot in dm.
8		19	12.0	+18	50		Shot in dm.
9	+18	4013	19	9.7	+18	57	9.5 ✓
10		19	12.7	+19	9		Shot in dm.
11		19	13.1	+19	40		Shot in dm.
12	+19	3968	19	10.3	+19	49	9.5 ✓
13		19	13.7	+19	42		Shot in dm.
14		19	13.9	+19	47		Shot in dm.
15		19	14.2	+19	50		Shot in dm.
16		19	14.2	+19	15		Shot in dm.
17		19	14.7	+19	18		Shot in dm.
18		19	14.7	+19	29		Shot in dm.
19		19	14.5	+18	32		Shot in dm.
20		19	15.3	+18	10		Shot in dm.
21	+18	4032	19	13.4	+18	41	9.4 ✓
22		19	16.8	+18	7		Shot in dm.
23	+17	3939	19	15.2	+17	59	9.5 ✓
24	+18	4045	19	15.1	+18	23	9.3 ✓
25		19	17.4	+18	45		Shot in dm.



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MF 8116

F.C.

26	3	A3
27	1	F5
28	3	F8
29	2	F8
30	2	A5
31	1	A
32	2	F8
33	1	F
34	1	G5
35	2	F0
36	2	G0
37	2	A <sup>2</sup> <del>A</del>
38	2	F2
39	1	K5
40	1	A
41	1	K2
42	2	A0
43	2	F8
44	3	A2
45	1	A0
46	4	F2
47	1	G0
48	1	A
49	1	A5
50	1	G0

MF 929

Mar. 20, 1930

26	+18°	4047	19 <sup>h</sup>	16.0	+18°	43'	9.5	✓
27			19	17.4	+19	15		Shot in Dm.
28	+19	3994	19	16.2	+19	9	9.5	✓
29			19	19.1	+19	3		Shot in Dm.
30	+18	4050	19	16.8	+18	26	9.5	✓
31			19	18.0	+18	3		Shot in Dm.
32			19	18.3	+17	58		Shot in Dm.
33			19	19.1	+18	20		Shot in Dm.
34	+18	4053	19	17.1	+18	30	9.5	✓
35			19	19.6	+18	36		Shot in Dm.
36			19	19.6	+18	0		✓ Not in Dm.
37			19	20.0	+17	34		Shot in Dm.
38			19	20.5	+17	59		Shot in Dm.
39	+18	4056	19	17.9	+18	26	9.4	✓
40			19	20.2	+18	29		Shot in Dm.
41			19	20.4	+18	36		Shot in Dm.
42			19	20.5	+18	29		Shot in Dm.
43	+18	4057	19	18.0	+18	40	9.5	✓
44	+19	4001	19	17.7	+19	11	9.4	✓
45			19	19.8	+19	6		Shot in Dm.
46	+18	4064	19	18.7	+18	55	9.3	✓
47	+19	4006	19	18.8	+19	1	9.4	✓
48	+18	4071	19	19.6	+18	0	9.5	✓
49			19	22.1	+18	42		Shot in Dm.
50	+18	4082	19	20.8	+18	26	9.5	✓



Feb. 21, 1930

MF 8116

F.C.

51	1	F8
52	1	F0
53	1	F5
54	1	G0
55	4	F8
56	2	G0
57	1	G5
58	2	G5
59	1	G5
60	1	A3
61	2	G5
62	1	F0
63	2	K0
64	2	F8
65	1	F5
66	2	B9
67	3	G0
68	2	F8
69	2	A3
70	1	A0
71	3	G0
72	2	F5
73	2	A3
74	3	G5
75	2	F5

MF 929

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51		19	23.2	+17	59	Not in dm.
52		19	23.3	+18	5	Not in dm.
53	+18°	4089	21.6	+18°	3	9.5 ✓
54		19	23.3	+18	33	Not in dm.
55	+19	4025	20.8	+19	8	9.5 ✓
56	+18	4087	21.3	+18	55	9.5 ✓
57		19	23.3	+19	8	Not in dm.
58	+18	4095	22.5	+18	16	9.5 ✓
59		19	24.8	+18	5	Not in dm.
60		19	25.2	+17	59	Not in dm.
61		19	25.1	+17	42	Not in dm.
62		19	25.9	+17	50	Not in dm.
63		19	26.0	+17	43	Not in dm.
64		19	25.4	+18	50	Not in dm.
65	+18°	4104	24.6	+18	2	9.5 ✓
66		19	26.8	+18	32	Not in dm.
67	+18	4107	24.8	+18	54	9.5 ✓
68	+18	4111	25.7	+18	29	9.5 Not in dm.
69	+18	4114	25.7	+18	29	9.5 Not in dm.
70		19	28.0	+18	54	Not in dm.
71		19	28.2	+19	10	Not in dm.
72		19	28.5	+18	57	Not in dm.
73		19	28.6	+19	11	Not in dm.
74	+19	4055	26.6	+19	18	9.5 ✓
75	+19	4058	27.4	+19	8	9.5 ✓



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NF 8116

F.C.

76	2	K <sub>0</sub>
77	2	F <sub>0</sub>
78	3	F <sub>0</sub>
79	2	F <sub>8</sub>
80	2	A <sub>0</sub>
81	1	G <sub>5</sub>
82	3	K <sub>2</sub>
83	2	K <sub>5</sub>
84	2	F <sub>0</sub>
85	2	A <sub>0</sub>
86	2	G <sub>0</sub>
87	1	F <sub>8</sub>
88	3	G <sub>5</sub>
89	1	A <sub>0</sub>
90	1	A <sub>2</sub>
91	3	A <sub>0</sub>
92	6	A <sub>2</sub>
93	1	A <sub>3</sub>
94	4	A <sub>2</sub>
95	1	K <sub>7</sub>
96	2	F <sub>5</sub>
97	5	K <sub>0</sub>
98	4	A <sub>0</sub>
99	2	A <sub>5</sub>
100	2	K <sub>7</sub>

MF 929

Mar. 20, 1930

76		19	30.0	+18	53		✓	Not in Dm.
77		19 <sub>h</sub>	30.3	+18	26		✓	Not in Dm.
78	+18	4133	28.5	+18	21	9.5	✓	
79	+18	4130	28.0	+18	2	9.5	✓	
80	+17	4005	28.8	+17	46	9.5	✓	
81		19	28.7	+17	54		✓	Not in Dm.
82	+17	4000	27.1	+18	20	9.5	✓	
83	+17	4004	27.6	+17	21	9.5	✓	
84	+17	4012	28.5	+17	54	9.5	✓	
85	+17	4013	28.6	+17	58	9.5	✓	
86		19	30.9	+17	56		✓	Not in Dm.
87	+18	4134	28.6	+18	12	9.5	✓	Not in Dm.
88	+18	4140	29.0	+18	15	9.2	✓	
89		19	31.3	+18	16		✓	Not in Dm.
90		19	31.5	+18	8		✓	Not in Dm.
91		19	31.3	+18	30		✓	Not in Dm.
92	+18	4143	29.4	+18	23	9.0	✓	
93	+18	4141	29.3	+18	35	9.5	✓	
94	+18	4153	30.3	+18	28	9.4	✓	
95	+18	4151	30.1	+18	21	9.5	✓	
96		19	32.3	+18	28		✓	Not in Dm.
97	+18	4155	30.5	+18	21	9.0	✓	
98	+18	4154	30.4	+18	5	9.4	✓	
99		19	32.7	+18	22		✓	Not in Dm.
100	+18	4161	30.9	+18	19	9.5	✓	



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nF 8116

F.C.

101	5	F <sub>0</sub>
102	5	A <sub>3</sub>
103	3	K <sub>0</sub>
104	3	K <sub>5</sub>
105	1	A <sub>2</sub>
106	2	K <sub>0</sub>
107	2	F <sub>0</sub>
108	1	G <sub>5</sub>
109	3	F <sub>2</sub>
110	2	F <sub>5</sub>
111	2	A <sub>3</sub>
112	3	K <sub>5</sub>
113	2	K <sub>0</sub>
114	4	A <sub>2</sub>
115	3	F <sub>0</sub>
116	2	F <sub>0</sub>
117	6	A <sub>2</sub>
118	1	A
119	4	A <sub>7</sub>
120	5	A <sub>2</sub>
121	4	A <sub>0</sub>
122	2	F <sub>5</sub>
123	5	A <sub>2</sub>
124	1	K <sub>5</sub>
125	2	K <sub>5</sub>

MF 929

Mar. 22, 1930

	<sup>o</sup>		<sup>h</sup>	<sup>m</sup>	<sup>o</sup>			
101	+18	4157	19	30.6	+18	36	8.8	✓
102	+18	4156	19	30.6	+18	42	9.0	✓
103	+18	4158	19	30.8	+18	44	9.1	✓ <del>not in dm.</del>
104	+18	4159	19	30.8	+19	47	8.7	✓
105			19	32.8	+18	53		✓ <del>not in dm.</del>
106	+18	4160	19	30.8	+18	52	9.2	✓
107			19	33.0	+18	54		✓ <del>not in dm.</del>
108			19	32.8	+18	10		✓ <del>not in dm.</del>
109	+19	4086	19	30.9	+19	7	9.3	✓
110	+19	4085	19	30.9	+19	15	9.5	✓
111			19	33.2	+19	26		✓ <del>not in dm.</del>
112			19	33.4	+19	28		✓ <del>not in dm.</del>
113	+19	4091	19	32.0	+19	13	9.4	✓
114	+19	4093	19	32.1	+19	7	9.4	✓
115	+18	4170	19	32.8	+18	52	9.4	✓
116			19	34.0	+18	54		✓ <del>not in dm.</del>
117	+18	4169	19	31.7	+18	19	9.3	✓
118			19	33.9	+18	23		✓ <del>not in dm.</del>
119	+18	4171	19	31.9	+18	25	9.5	✓
120	+18	4172	19	32.3	+18	14	9.3	✓
121	+18	4173	19	32.4 <sup>5</sup>	+18	8	9.3	✓
122	+18	4174	19	32.5	+18	21	9.4	✓
123	+18	4175	19	32.5	+18	22	9.2	✓
124	+18	4177	19	32.6	+18	13	9.3	✓
125	+18	4178	19	32.7	+18	12	9.1	✓



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mF 8116

F.C.

126	2	A <sub>0</sub>
127	3	A <sub>7</sub>
128	3	F <sub>8</sub>
129	5	F <sub>5</sub>
130	1	G <sub>5</sub>
131	2	B <sub>8</sub>
132	5	K <sub>0</sub>
133	2	G <sub>0</sub>
134	2	F <sub>8</sub>
135	3	B <sub>5</sub>
136	1	K <sub>0</sub>
137	3	G <sub>0</sub>
138	1	F <sub>8</sub>
139	2	B <sub>9</sub>
140	2	F <sub>5</sub>
141	2	A <sub>0</sub>
142	1	G
143	2	A <sub>3</sub>
144	1	K <sub>0</sub>
145	2	F <sub>0</sub>
146	3	F <sub>0</sub>
147	3	A <sub>3</sub>
148	2	G <sub>0</sub>
149	1	A
150	3	F <sub>0</sub>

MF 929

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126	+18°	4180	19	32.9	+18°	5'	9.5	✓
127			19	33.8	+17	39		hot in sm.
128	+18	4181	19	33.1	+18	18	9.2	✓
129	+18	4176	19	32.6 <sup>5</sup>	+18	55	9.2	✓
130	+19	4100	19	32.8	+19	2	9.5	✓
131			19	35.4	+18	58		hot in sm.
132	+19	4102	19	32.8	+19	20	9.0	✓
133			19	34.8	+19	40		hot in sm.
134			19	34.1	+19	47		hot in sm.
135	+19	4095	19	32.4	+19	48	9.5	✓
136	+19	4094	19	32.3	+19	51	9.5	✓
137	+19	4096	19	32.4	+19	58	9.5	✓
138			19	35.0	+20	5		hot in sm.
139			19	35.0	+20	20		hot in sm.
140	+20	4212	19	32.9	+20	33	9.5	✓
141			19	34.5	+20	51		hot in sm.
142			19	34.2	+20	9		hot in sm.
143			19	34.0	+20	6		hot in sm.
144	+20	4209	19	32.0	+20	8	9.5	✓
145			19	33.6	+19	43		hot in sm.
146	+19	4088	19	31.4	+19	46	9.5	✓
147			19	33.3	+19	55		hot in sm.
148	+19	4087	19	31.2	+19	0	9.5	✓
149			19	32.6	+20	19		hot in sm.
150	+19	4029 <sup>82</sup>	19	30.3 <sup>6</sup>	+19	49	9.5	

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mF 8116

F.C.

151	1	G5
152	2	G0
153	3	F8
154	2	F8
155	3	F2
156	2	B9
157	3	G0
158	2	K5
159	3	F8
160	3	A3
161	5	F0
162	3	A2
163	1	F8
164	1	F5
165	2	F5
166	1	A
167	1	A2
168	3	A3
169	3	F8
170	3	F0
171	1	G
172	3	F5
173	1	G0
174	1	B9
175	3	F2

K line looks faint.

MF 929

Mar. 22, 1930

151		19	32.6	+19	42		✓	hot in sm.
152	+19°	4076	19 <sup>h</sup>	29.9	+19°	31'	9.5	✓
153		19	31.9	+19	46			hot in sm.
154		19	31.5	+19	49			hot in sm.
155	+19	4084	19	29.4	+19	39	9.5	✓
156		19	31.1	+19	55			hot in sm.
157		19	31.6	+19	12			hot in sm.
158	+19	4082	19	29.3	+19	1	9.5	✓
159	+18	4139	19	28.9	+18	54	9.4	✓
160		19	31.0	+19	12			hot in sm.
161	+19	4080	19	28.7	+19	28	9.3	✓
162	+19	4062	19	28.0	+19	16	9.5	✓
163		19	30.0	+19	31			hot in sm.
164		19	30.8	+20	3			hot in sm.
165	+19	4074	19	28.4	+19	58	9.5	✓
166		19	30.0	+19	50			hot in sm.
167		19	29.8	+19	51			hot in sm.
168	+19	4056	19	26.8	+19	55	9.5	✓
169	+19	4054	19	26.6	+19	57	9.5	✓
170		19	28.7	+19	47			hot in sm.
171		19	28.4	+19	46			hot in sm.
172	+20	4183	19	27.3	+20	18	9.4	✓
173		19	28.4	+20	21			hot in sm.
174	+20	4180	19	27.0	+20	38	9.5	✓
175	+20	4177	19	26.5	+20	53	9.4	✓



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MF 8116

F.c.

176	3	M0
177	2	A2
178	1	B9
179	1	G0
180	1	A0
181	2	F2
182	2	G0
183	2	F8
184	1	A
185	1	F0
186	2	G0
187	1	K7
188	1	B9
189	1	G5
190	2	F5
191	1	A3
192	3	A3
193	3	G0
194	2	F2
195	3	G5
196	4	F0
197	2	F0
198	2	G0
199	4	G0
200	3	F8

S. of two

MF 929

Mar. 20, 1930

176	+20°	4176	19	<sup>5</sup> <del>24.8</del>	+20°	40	8.8	✓
177			19	27.3	+20	35		✓ Not in sm.
178			19	27.8	+20	26		✓ Not in sm.
179			19	27.6	+20	18		✓ Not in sm.
180			19	27.8	+20	8		✓ Not in sm.
181			19	27.1	+19	49		✓ Not in sm.
182	+19	4050	19	25.5	+19	40	9.5	✓
183	+19	4052	19	25.8	+19	48	9.5	✓
184			19	28.1	+19	36		✓ Not in sm.
185			19	28.0	+19	17		✓ Not in sm.
186			19	27.9	+19	24		✓ Not in sm.
187			19	27.0	+19	33		✓ Not in sm.
188			19	26.2	+19	32		✓ Not in sm.
189			19	26.2	+19	30		✓ Not in sm.
190			19	26.0	+19	28		✓ Not in sm.
191			19	25.9	+19	28		✓ Not in sm.
192			19	26.1	+19	37		✓ Not in sm.
193	+19	4044	19	24.4	+19	54	9.5	✓
194			19	25.9	+19	59		✓ Not in sm.
195			19	25.8	+19	56		✓ Not in sm.
196	+19	4042	19	23.8	+19	43	9.5	✓
197			19	25.5	+19	52		✓ Not in sm.
198			19	25.3	+19	35 32		✓ Not in sm.
199	+19	4038	19	23.0	+19	59	9.4	✓
200			19	25.2	+19	8		✓ Not in sm.

19



Feb. 24, 1930

mF 8116

F.C.

201	1	G <sub>0</sub>
202	3	A <sub>2</sub>
203	1	K <sub>0</sub>
204	3	G <sub>5</sub>
205	4	G <sub>0</sub>
206	1	K <sub>0</sub>
207	1	F <sub>5</sub>
208	1	A <sub>0</sub>
209	1	F <sub>8</sub>
210	1	F <sub>5</sub>
211	2	A <sub>7</sub>
212	1	F <sub>0</sub>
213	4	G <sub>5</sub>
214	3	F <sub>2</sub>
215	1	F <sub>5</sub>
216	1	G <sub>5</sub>
217	1	G <sub>5</sub>
218	1	G <sub>0</sub>
219	3	A <sub>5</sub>
220	2	F <sub>0</sub>
221	1	G
222	4	K <sub>2</sub>
223	4	A <sub>5</sub>
224	4	F <sub>8</sub>
225	4	A <sub>0</sub>

lines narrow

I 20943

Mar. 14, 1930

201		19 <sub>h</sub>	<sup>25.7</sup> +19 <sub>0</sub>	19 <sub>1</sub>	hot in sm.
202	+19	4035	19	26	9.5 ✓
203	+19	4036	19	35	9.5 ✓
204	+19	4033	19	38	9.4 ✓
205	+19	4037	19	52	9.3 ✓
206	+20	4156	<del>20</del>	4	9.5 ✓
207	+20	4161	19	14	9.5 ✓
208		19	24.8 +20	29	hot in sm.
209		19	24.6 +20	25	hot in sm.
210		19	24.4 +20	29	hot in sm.
211	+20	4159	19	40	9.5 ✓
212		19	23.4 +20	27	hot in sm.
213	+20	4149	19	32	9.4 ✓
214		19	23.0 +20	19	hot in sm.
215	+20	4145	19	12	9.5 ✓
216		19	22.7 +20	20	hot in sm.
217		19	22.6 +20	17	hot in sm.
218		19	22.6 +20	25	hot in sm.
219	+20	4138	19	30	9.5 ✓
220		19	22.8 +19	56	hot in sm.
221		19	22.7 +20	0	hot in sm.
222	+19	4021	19	55	9.5 ✓
223	+19	4020	19	37	9.5 ✓
224	+19	4016	19	37	9.5 ✓
225	+19	4014	19	40	9.5 ✓



Feb. 24, 1930

MF 8116

F.C.

226	1	G <sub>0</sub>
227	2	F <sub>2</sub>
228	5	F <sub>8</sub>
229	1	F <sub>8</sub>
230	2	F <sub>0</sub>
231	1	G <sub>0</sub>
232	2	A <sub>3</sub>
233	2	A <sub>5</sub>
234	1	F <sub>8</sub>
235	1	F <sub>5</sub>
236	3	G <sub>0</sub>
237	1	G <sub>5</sub>
238	1	K <sub>0</sub>
239	1	F <sub>2</sub>
240	1	F <sub>5</sub>
241	1	F <sub>0</sub>
242	2	F <sub>0</sub>
243	2	F <sub>2</sub>
244	2	G <sub>0</sub>
245	2	G <sub>5</sub>
246	2 <sup>3</sup>	A <sub>0</sub>
247	2	A <sub>0</sub>
248	2	A <sub>3</sub>
249	3	A <sub>5</sub>
250	1	F <sub>5</sub>

I 20943

Mar. 14, 1930

226		19	21.8	+20	5		Not in dm.
227		19	21.8	+20	11		Not in dm.
228	+19° 4008	19 <sup>h</sup>	19.0	+19°	57	9.3	✓
229		19	21.0	+19	27		Not in dm.
230	+19 4003	19	18.3	+19	30	9.5	✓
231		19	19.9	+20	0		Not in dm.
232		19	18.9	+19	44		Not in dm.
233		19	18.4	+19	33		Not in dm.
234	+19° 3999	19	17.2	+19	8	9.4	✓
235	+19 3993	19	16.0	+19	50	9.5	✓
236	+20 4120	19	16.2	+20	4	9.5	✓
237		19	18.0	+20	17		Not in dm.
238		19	17.8	+20	22		Not in dm.
239		19	17.7	+20	23		Not in dm.
240		19	18.6	+20	49		Not in dm.
241		19	18.2	+20	50		Not in dm.
242	+20 4118	19	16.0	+20	50	9.5	✓
243		19	18.5	+21	10		Not in dm.
244		19	18.7	+21	21		Not in dm.
244a		19	18.5	+21	49		Not in dm.
245		19	19.0	+21	11		Not in dm.
246	+21° 3759	19	18.8	+21	52		Not in dm.
246a		19	18.8	+21	43	9.5	Not in dm.
247	+21 3760	19	18.9	+21	56		Not in dm.
247a		19	17.0	+21	57	9.2	Not in dm.
248		19	18.9	+21	57		Not in dm.
248		19	19.0	+21	56		Not in dm.
249		19	19.2	+22	1		Not in dm.
250		19	19.3	+22	4		Not in dm.



Feb. 24, 1930

MF 8116

F.C.

251	2	G5
252	1	A7
253	2	F8
254	2	G0
255	2	F5
256	3	F8
257	2	B8
258	1	G0
259	2	A2
260	3	A3
261	2	G0
262	1	F0
263	1	G0
264	1	F8
265	1	F8
266	2	G0
267	1	F5
268	4	A2
269	3	F5
270	2	F8
271	1	F5
272	1	K2
273	3	F2
274	2	G5
274a	4	G5
275	2	F8

H. of two

f. of two

I 20943

Mar. 14, 1930

251		19 <sub>h</sub>	19.4	+22	4		Shot in sm.
252	+21 <sup>0</sup>	3763	19	17.6	+21 <sup>0</sup>	41	9.5 ✓
253		19	19.7	+21	42		Shot in sm.
254		19	19.5	+20	57		Shot in sm.
255		19	19.6	+21	6		Shot in sm.
256	+20	4127	19	18.1	+20	55	9.5 ✓
257		19	20.1	+21	13		Shot in sm.
258		19	20.2	+21	27		Shot in sm.
259	+20	4130	19	18.6	+20	54	9.5 ✓
260		19	20.0	+20	42		Shot in sm.
261		19	20.3	+20	44		Shot in sm.
262		19	20.0	+20	26		Shot in sm.
263		19	20.4	+20	28		Shot in sm.
264		19	20.7	+20	32		Shot in sm.
265		19	21.1	+20	40		Shot in sm.
266		19	20.9	+20	58		Shot in sm.
267		19	21.2	+20	58		Shot in sm.
268	+20	4136	19	19.7	+20	55	9.5 ✓
269		19	21.0	+21	27		Shot in sm.
270	+21	3777	19	19.4 <sup>3H</sup>	+21	24	9.5 ✓
271	+21	3778	19	19.1 <sup>7</sup>	+21	24	9.5 ✓
272		19	21.5	+21	16		Shot in sm.
273		19	21.8	+21	18		Shot in sm.
274	+21	3780	19	20.2 <sup>1</sup>	+21	19	9.4
275		19	22.1	+21	22		Shot in sm.

Go the way  
be identified  
as +21 2760

274 +21  
274



Feb. 24, 1930

MF 8116

F.C.

276	1	G <sub>0</sub>
277	3	F <sub>2</sub>
278	1	A <sub>5</sub>
279	6	B <sub>9</sub>
280	1	B <sub>8</sub>
281	2	A <sub>0</sub>
282	1	F <sub>5</sub>
283	1	G <sub>0</sub>
284	3	F <sub>5</sub>
285	1	F <sub>8</sub>
286	3	F <sub>5</sub>
287	1	G <sub>5</sub>
288	1	G <sub>0</sub>
289	2	F <sub>0</sub>
290	2	A <sub>0</sub>
291	3	F <sub>2</sub>
292	3	F <sub>0</sub>
293	1	K <sub>0</sub>
294	1	G <sub>5</sub>
295	1	F <sub>5</sub>
296	1	F <sub>0</sub>
297	2	F <sub>8</sub>
298	3	G <sub>0</sub>
299	2	F <sub>2</sub>
300	1	G <sub>5</sub>

n. of two

K line strong

I 30943

Mar. 14, 1930

276		19	22.2	+21	20		Not in dm.
277		19	22.5	+21	17		Not in dm.
278		19 <sup>h</sup>	22.1	+21	7		Not in dm.
279 +20	4140	19	20.6 <sup>5</sup>	+20	44	8.9	✓
280 +20	4143	19	20.8	+20	47	9.3	✓
281		19	22.8	+20	56		Not in dm.
282		19	23.1	+21	8		Not in dm.
283		19	23.0	+20	51		Not in dm.
284		19	22.7	+21	30		Not in dm.
285		19	23.5	+21	47		Not in dm.
286 +22	3704	19	22.2 <sup>1</sup>	+22	4	9.5	✓
287 +21	3792	19	22.3	+21	36	9.5	✓
288		19	24.6	+20	55		Not in dm.
289 +20	4160	19	23.0	+20	58	9.5	✓
290		19	24.9	+21	8		Not in dm.
291		19	25.9	+20	37		Not in dm.
292 +20	4168	19	24.2	+20	36	9.4	✓
293		19	26.4	+20	48		Not in dm.
294		19	27.0	+20	48		Not in dm.
295		19	27.2	+20	38		Not in dm.
296		19	27.3	+20	43		Not in dm.
297		19	27.0	+20	22		Not in dm.
298		19 <sup>g</sup>	27.1	+20	23		Not in dm.
299 +20	4169	18	24.6 <sup>5</sup>	+20	2	9.5	✓
300		19	27.5	+20	16		Not in dm.



Feb. 26, 1930

MF 8416

F.C.

301	2	G <sub>5</sub>
302	1	K <sub>0</sub>
303	2	F <sub>8</sub>
304	3	F <sub>5</sub>
305	2	F <sub>5</sub>
306	1	F <sub>8</sub>
307	1	K <sub>5</sub>
308	2	G <sub>0</sub>
309	3	F <sub>2</sub>
310	3	G <sub>0</sub>
311	2	G <sub>0</sub>
312	4	F <sub>0</sub>
313	4	F <sub>8</sub>
314	2	F <sub>8</sub>
315	2	F <sub>5</sub>
316	1	G <sub>0</sub>
317	2	F <sub>5</sub>
318	3	F <sub>5</sub>
319	3	A <sub>7</sub>
320	4	F <sub>5</sub>
321	3	F <sub>0</sub>
322	1	K <sub>5</sub>
323	2	F <sub>8</sub>
324	1	A <sub>3</sub>
325	2	A <sub>7</sub>

n. of two

MF 922

Mar. 20, 1930

301	+20°	4098	19	10.9	+20°	34	9.5	✓
302			19	13.0	+20	46		Not indm.
303			19	13.4	+20	38		Not indm.
304			19	13.8	+20	51		Not indm.
305			19	14.0	+20	35		Not indm.
306			19	14.2	+20	20		Not indm.
307	+20	4100	19	12.0	+20	7	9.5	✓
308			19	14.8	+20	17		Not indm.
309	+20	4104	19	12.6	+20	26	9.5	✓
310	+20	4105	19	13.2	+20	16	9.5	✓
311			19	15.9	+20	3		Not indm.
312	+20	4107	19	13.8	+20	12	9.5	✓
313			19	15.8	+20	22		Not indm.
314			19	15.7	+20	27		Not indm.
315			19	14.8	+20	42		Not indm.
316			19	14.4	+20	48		Not indm.
317	+20	4102	19	12.1	+20	59	9.5	✓
318			19	14.9	+21	2		Not indm.
319			19	14.9	+21	15		Not indm.
320	+20	4106	19	13.7	+20	43	9.5	✓
321			19	15.9	+20	50		Not indm.
322	+20	4110	19	14.6	+20	23	9.4	✓
323	+20	4115	19	15.2	+20	15	9.5	✓
324			19	17.5	+20	8		Not indm.
325	+19	3985	19	14.8	+19	42	9.5	✓

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MF 8116

F.C.

326	1	G <sub>0</sub>
327	3	A <sub>2</sub>
328	1	G <sub>0</sub>
329	3	F <sub>2</sub>
330	1	K <sub>7</sub>
331	2	F <sub>8</sub>
332	1	G <sub>0</sub>
333	4	A <sub>0</sub>
334	2	G <sub>5</sub>
335	4	G <sub>0</sub>
336	1	K <sub>0</sub>
337	2	G <sub>5</sub>
338	1	F <sub>8</sub>
339	1	A
340	1	F <sub>0</sub>
341	2	K <sub>5</sub>
342	1	K <sub>7</sub>
343	1	G <sub>0</sub>
344	1	K <sub>0</sub>
345	1	K <sub>0</sub>
346	2	G <sub>0</sub>
347	4	F <sub>0</sub>
348	3	G <sub>0</sub>
349	1	A <sub>0</sub>
350	2	A <sub>3</sub>

Lines narrow

MF 922

Mar. 20, 1930

326		19	16.1	+19	47	Not in dm.
327		19	17.2	+21	3	Not in dm.
328		19	17.2	+21	9	Not in dm.
329		19	17.6	+21	21	Not in dm.
330		19 <sub>h</sub>	17.6	+21	34	Not in dm.
331	+21° 3750	19	16.1	+21°	16	9.5 ✓
332		19	17.9	+21	42	Not in dm.
333		19	17.4	+21	47	Not in dm.
334	+21 3738	19	14.6	+21	25	9.5 ✓
335	+21 3735	19	14.1	+21	18	9.3 ✓
336		19	16.0	+21	28	Not in dm.
337	+21 3734	19	14.0	+21	14	9.3 ✓
338		19	15.5	+21	17	Not in dm.
339		19	16.1	+21	54	Not in dm.
340		19	15.7	+22	6	Not in dm.
341	+22 3664	19	14.5	+22	8	9.5 ✓
342		19	16.4	+22	30	Not in dm.
343		19	15.8	+22	43	Not in dm.
344		19	15.2	+22	57	Not in dm.
345		19	17.4	+23	16	Not in dm.
346		19	17.6	+23	14	Not in dm.
347		19	18.0	+23	24	Not in dm.
348		19	18.6	+23	25	Not in dm.
349		19	18.1	+23	8	Not in dm.
350		19	18.6	+23	4	Not in dm.



Feb. 26, 1930

MF 8116

F.C.

351	4	F <sub>2</sub>
352	1	F <sub>0</sub>
353	3	A <sub>0</sub>
354	2	A <sub>2</sub>
355	2	G <sub>0</sub>
356	1	B <sub>8</sub>
357	1	F <sub>0</sub>
358	2	A <sub>0</sub>
359	2	F <sub>5</sub>
360	1	A
361	2	A <sub>5</sub>
362	2	F <sub>8</sub>
363	2	K <sub>0</sub>
364	3	F <sub>0</sub>
365	3	F <sub>5</sub>
366	1	F <sub>5</sub>
367	1	F <sub>8</sub>
368	1	F <sub>8</sub>
369	2	A <sub>0</sub>
370	1	G <sub>5</sub>
371	2	F <sub>5</sub>
372	2	F <sub>8</sub>
373	1	G <sub>0</sub>
374	2	K <sub>0</sub>
375		

MF 922

Mar. 20, 1930

351	+23°	3639	19	m	+23°	0'	9.4	✓
352			19	19.1	+22	59		Not in Dm.
353			19	18.6	+22	33		Not in Dm.
354			19	18.7	+22	19		Not in Dm.
355			19	19.2	+22	27		Not in Dm.
356			19	21.2	+22	18		Not in Dm.
357			19	20.4	+21	46		Not in Dm.
358			19	20.5	+22	3		Not in Dm.
359			19	21.5	+21	55		Not in Dm.
360			19	22.0	+22	9		Not in Dm.
361			19	22.0	+21	55		Not in Dm.
362			19	23.5	+22	12		Not in Dm.
363			19	25.3	+22	25		Not in Dm.
364			19	25.5	+21	50		Not in Dm.
365			19	27.8	+22	37		Not in Dm.
366			19	27.4	+23	4		Not in Dm.
367			19	27.8	+23	22		Not in Dm.
368			19	27.8	+23	35		Not in Dm.
369			19	26.9	+23	36		Not in Dm.
370			19	26.2	+23	27		Not in Dm.
371			19	25.4	+23	24		Not in Dm.
372			19	24.6	+23	25		Not in Dm.
373			19	24.4	+23	31		Not in Dm.
374			19	25.1	+23	5		Not in Dm.
375			19	25.3	+22	54		Not in Dm.

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Feb. 26, 1930

MF 8116

F.C.

376	1	K5	
377	1	G <sub>0</sub>	
378	2	F <sub>5</sub>	
379	2	K <sub>0</sub>	
380	2	G <sub>5</sub>	
381	3	G <sub>5</sub>	
382	1	F <sub>8</sub>	
383	4	K <sub>9</sub>	var.
384	3	F <sub>2</sub>	
385	1	F <sub>0</sub>	
386	2	A <sub>5</sub>	
387	3	A <sub>2</sub>	Lines narrow
387a	5	<del>G<sub>0</sub></del>	
388	1	K <sub>2</sub>	n. of two
389	3	A <sub>7</sub>	
390	1	A <sub>2</sub>	
391	2	F <sub>2</sub>	
392	2	K <sub>0</sub>	
393	2	A <sub>7</sub>	
394	1	K <sub>7</sub>	
395	1	K <sub>0</sub>	
396	2	A <sub>5</sub>	
396a	4	<del>A<sub>5</sub></del>	
397	1	K <sub>5</sub>	
398	2	A	
399	2	A <sub>5</sub>	
400	3	A <sub>2</sub>	

MF 922

Mar. 20, 1930

376	+22 <sup>6</sup>	3713	19 <sup>h</sup>	23.9	+22 <sup>0</sup>	55'	9.5	✓
377			19	26.2	+22	41		hot in dm.
378			19	26.6	+24	8		hot in dm.
379	+23	3672	19	24.5 <sup>4</sup>	+23	55	9.5	✓
380			19	25.3	+24	3		hot in dm.
381	+23	3665	19	22.8	+23	54	9.5	✓
382			19	23.9	+23	59		hot in dm.
383	+24	3754	19	21.8	+24	3	9.5	✓
384	+24	3752	19	21.5	+24	6	9.4	✓
385			19	23.7	+23	43		hot in dm.
386			19	22.9	+23	45		hot in dm.
387			19	22.3	+23	30		hot in dm.
387a	+23	3651	19	19.5	+23	21	9.5	✓
388			19	22.4	+24	0		hot in dm.
389			19	21.8	+24	4		hot in dm.
390			19	22.1	+24	20		hot in dm.
391			19	22.6	+24	19		hot in dm.
392	+24	3745	19	20.8	+24	14	9.4	✓
393			19	23.0	+24	28		hot in dm.
394	+24	3744	19	20.6	+24	34	9.5	hot in dm.
395	+24	3743	19	20.2	+24	37	9.5	✓
396			19	22.0	+24	40		hot in dm.
396a	+24	3741	19	19.8	+24	21	9.1	✓
397			19	22.2	+24	57		hot in dm.
398			19	22.6	+24	53		hot in dm.
399			19	22.6	+24	59		hot in dm.
400	+24	3746	19	20.8	+24	54	9.5	hot in dm.

46 m  
35215456 m  
353184



Mar 5, 1930

NF 8116

F.C.

401	1	K5
402	1	F8
403	1	F0
404	1	A3
405	1	A
406	1	G5
407	1	K7
408	2	F8
409	3	G0
410	2	G5
411	2	G0
412	2	F5
413	2	F0
414	1	G5
415	1	F
416	1	F0
417	3	G0
418	3	G5
419	2	A2
420	1	A
421	1	F
422	1	A
423	1	A
424	3	F8
425	1	G

I 20309<sup>7</sup>

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401			19	15.7	+23	48		Not in sm.
402			19	15.7	+23	36		Not in sm.
403			19	16.6	+23	34		Not in sm.
404			19	17.3	+23	36		Not in sm.
405			19	17.5	+23	28		Not in sm.
406			19	18.2	+23	56		Not in sm.
407			19	18.3	+24	13		Not in sm.
408			19 <sub>h</sub>	18.4	+24	13		Not in sm.
409	+24°	3726	19	16.6	+24°	5	9.4	✓
410			19	18.5	+24	21		Not in sm.
411			19	18.8	+24	25		Not in sm.
412			19	18.8	+24	31		Not in sm.
413			19	18.4	+24	37		Not in sm.
414			19	17.9	+24	26		Not in sm.
415			19	17.9	+24	37		Not in sm.
416			19	17.7	+24	44		Not in sm.
417	+24	3729	19	17.4	+24	14	9.3	✓
418	+24	3731	19	18.0	+24	19	9.5	✓
419			19	20.6	+24	1		Not in sm.
420			19	19.1	+23	50		Not in sm.
421			19	19.5	+23	31		Not in sm.
422			19	19.9	+23	39		Not in sm.
423			19	19.9	+23	42		Not in sm.
424	+22	3688	19	18.9	+22	39	9.5	✓
425			19	21.3	+22	57		Not in sm.



Mar. 5, 1930

MF 8116

F.C.

426	1	F2
427	1	K5
428	1	K7
429	3	K0
430	2	A0
431	4	K0
432	6	A0
433	4	A2
434	3	K9
435	1	A
436	1	F5
437	3	A7
438	2	A7
439	1	K0
440	3	G0
441	1	G
442	2	A3
443	1	A
444	3	G0
445	2	K2
446	3	M0
447	1	F0 <del>G0</del>
448	2	A3
449	1	G5
450	6	A0

Partly sup. on adjacent star

I 20307

Mar. 24, 1930

426		19	21.4	+23	7		Not in sm.
427		19	21.6	+24	13		Not in sm.
428		19 <sup>h</sup>	21.0	+24	36		Not in sm.
429	+24 <sup>o</sup>	3736	19	18.6	+24 <sup>o</sup>	51	9.5 ✓
430		19	20.7	+24	59		Not in sm.
431	+25	3826	19	19.6	+25	0	8.8 ✓
432	+24	3740	19	19.8	+24	54	8.6 ✓
433	+25	3825	19	19.6	+25	12	9.4 ✓
434	+25	3829	19	19.8	+25	13	9.5 ✓
435		19	21.7	+25	11		Not in sm.
436		19	21.9	+25	15		Not in sm.
437		19	22.2	+25	12		Not in sm.
438		19	22.3	+25	11		Not in sm.
439	+25	3830	19	19.9	+25	29	9.5 <del>Not in sm.</del>
440	+25	3820	19	18.9	+25	26	9.5 ✓
441		19	20.5	+25	25		Not in sm.
442		19	20.5	+25	25		Not in sm.
443		19	20.5	+25	37		Not in sm.
444	+25	3819	19	18.7	+25	54	9.5 ✓
445	+25	3821	19	18.9	+25	56	9.4 ✓
446	+26	3543	19	18.6	+26	5	9.1 ✓
447	+26	3541	19	18.4 <sup>b</sup>	+26	10	9.5 ✓
448		19	20.5	+26	12		Not in sm.
449		19	20.6	+26	13		Not in sm.
450	+26	3546	19	19.0	+26	13	9.0 ✓

13



Mar. 5, 1930

NF 8116

F.C.

451	6	A2
452	2	A0
453	3	K2
454	2	F5
455	7	K0
456	3	K0
457	3	A0
458	4	A7
459	5	A0
460	1	G
461	2	K5
462	5	A7
463	4	B8
464	1	F0
465	6	G0
466	3	F5
467	6	A7
468	2	F8
469	1	G
470	2	G0
471	2	G0
472	3	F8
473	2	F0
474	1	K0
475	3	A7

I 20307

Mar. 24, 1930

451	+26°	3547	19 <sup>h</sup>	19.1 <sup>m</sup>	+26°	24'	9.0	✓
452			19	21.0	+26	5		✓ not in sm.
453	+26	3548	19	19.3	+26	8	9.2	✓
454			19	21.3	+26	8		✓ not in sm.
455	+26	3549	19	19.5	+26	3	8.2	✓
456	+25	3831	19	20.0	+25	44	9.1	✓
457	+25	3832	19	20.2	+25	52	9.5	✓
458	+25	3835	19	20.8	+25	58	9.3	✓
459	+26	3553	19	20.6	+26	16	9.2	✓
460			19	21.5	+26	21		✓ not in sm.
461	+26	3550	19	19.7	+26	48	9.2	✓
462	+26	3538	19	18.3	+26	29	9.3	✓
463	+26	3542	19	18.5	+26	32	9.5	✓
464			19	20.5	+26	38		✓ not in sm.
465	+26	3544	19	18.8	+26	40	8.9	✓
466	+26	3551	19	20.2	+26	40	9.5	✓
467	+26	3552	19	20.4	+26	44	9.2	✓
468	+26	3554	19	21.1	+26	44	9.5	✓
469			19	23.0	+26	16		✓ not in sm.
470	+26°	3556	19	21.4	+26	7	9.5	✓ not in sm.
471	+26	3556	19	23.3	+26	9	9.5	✓ not in sm.
472	+26	3558	19	21.8	+26	6	9.3	✓
473			19	23.8	+26	3		✓ not in sm.
474	+25	3842	19	21.6	+25	52	9.5	✓
475	+26	3840	19	21.3	+25	45	9.5	✓



Mar. 5, 1930

mF8116

F.C.

476	3	F8
477	4	K5
478	2	A5
479	1	G0
480	4	G5
481	4	A0
482	3	A2
483	3	A0
484	2	A
485	2	B9
486	4	B8
487	2	F0
488	4	A5
489	2	G5
490	1	A
491	2	G0
492	4	B9
493	4	F0
494	1	A
495	1	G
496	3	A2
497	2	B8
498	3	F8
499	1	F8
500	1	F5

I 20307

Mar. 24, 1930

476	+25°	3836	19	<sup>m</sup> 21.0	+25°	49 <sup>1</sup>	9.4	✓
477	+25	3833	19	20.5	+25	19	8.4	✓
478	+25	3837	19	21.0	+25	19	9.4	✓
479			19	23.0	+25	12		not in dm.
480	+25	3838	19	21.2	+25	2	9.2	✓
481			19	23.0	+24	54		not in dm.
482			19	23.1	+24	56		not in dm.
483	+24	3747	19	21.1	+24	54	9.5	✓
484	+24	3748 <sup>9</sup>	19	21.2	+24	<del>38</del> <sup>56</sup>	9.4 <sup>5</sup>	✓
485	+24	3748	19	21.2 <sup>1</sup>	+24	38	9.4	not in dm.
486			19	23.2	+24	43		✓
487			19	23.3	+24	57		not in dm.
488	+24	3751	19	21.5	+24	54	9.4	not in dm.
489			19	23.5	+24	57		not in dm.
490			19	23.9	+24	53		not in dm.
491	+24	3756	19	22.0	+24	16	9.5	✓
492	+24	3755	19	22.0	+24	24	9.2	✓
493	+24	3757	19	<sup>2</sup> 24	+24	29	9.4	✓
494			19	24.4	+24	36		not in dm.
495			19	24.0	+24	13		not in dm.
496	+24	<sup>60</sup> 3756	19	22.9	+24	21 <sup>3</sup> <del>16</del>	9.5	✓
497	+24	3762	19	23.0	+24	20	9.5	✓
498	+24	3763	19	23.1	+24	42	9.3	✓
499			19	24.7	+24	38		not in dm.
500			19	25.4	+24	55		not in dm.

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Mar. 6, 1930

MF 8116

F.C.

501	5	B <sub>9</sub>
502	2	F <sub>5</sub>
503	2	F <sub>2</sub>
504	2	F <sub>0</sub>
505	1	G
506	2	F <sub>0</sub>
507	6	A <sub>0</sub>
508	3	A <sub>2</sub>
509	4	B <sub>9</sub>
510	2	A
511	6	A <sub>0</sub>
512	1	A <sub>3</sub>
513	1	F <sub>8</sub>
514	1	A
515	1	A
516	1	A <sub>3</sub>
517	2	K <sub>0</sub>
518	5	B <sub>5</sub>
519	1	K <sub>0</sub>
520	3	F <sub>8</sub>
521	3	K <sub>7</sub>
522	3	A <sub>0</sub>
523	5	A <sub>2</sub>
524	6	A <sub>2</sub>
525	7	G <sub>0</sub>

MF 922

Mar. 20, 1930

501	+24°	3764	19 <sup>h</sup>	23.7 <sup>m</sup>	+24°	56'	9.1	✓
502	+25	3854	19	23.9	+25	6	9.4	✓
503			19	25.2	+25	15		not in dm.
504	+25	3848	19	22.9	+25	8	9.5	✓
505			19	24.7	+25	16		not in dm.
506			19	24.2	+25	7		not in dm.
507	+25	3845	19	22.2	+25	8	9.5	✓
508			19	24.0	+25	13		not in dm.
509	+25	3842 <sup>4</sup>	19	21.8	+25	14	9.3	✓
510			19	23.2	+25	20		not in dm.
511	+25	3839	19	21.3	+25	20	9.2	✓
512	+25	3841	19	21.4 <sup>3</sup>	+25	28	9.5	✓
513			19	23.8	+25	42		not in dm.
514			19	23.9	+25	42		not in dm.
515			19	24.1	+25	43		not in dm.
516			19	24.4	+25	44		not in dm.
517	+25	3847	19	22.8	+25	32	9.5	✓
518	+25	3849	19	23.0	+25	28	9.4	✓
519			19	25.3	+25	35		not in dm.
520	+25	3846	19	22.8	+25	54	9.5	✓
521	+26	3565	19	23.2 <sup>1</sup>	+26	6	9.2	✓
522	+26	3564	19	22.9	+26	8	9.5	✓
523	+26	3563 <sup>68</sup>	19	23.4	+26	140	9.4 <sup>3</sup>	✓
524	+25	3850	19	23.5	+25	56	9.4	✓
525	+26	3562	19	22.5	+26	19	9.0	✓



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MT-8116

F.C.

526	3	F5
527	2	F0
528	1	K7
529	4	A2
530	2	A0
531	1	G5
532	5	G0
533	3	F8
534	2	F2
535	3	A0
536	2	A2
537	3	G0
538	2	M0
539	3	A
540	5	F0
541	1	F5
542	4	G0
543	1	A
544	1	K7
545	2	F5
546	2	F8
547	4	A0
548	5	A2
549	2	A2
550	1	A

MF 922

Mar. 20, 1930

526	+26	3560	19	22.2	+26	20	9.3	✓
527			19	23.5	+26	37		Not in Dm.
528	+26	3557	19	21.7	+26	40	9.5	Not in Dm.
			19	23.8	+26	45		
529	+26	<del>3559</del>	<del>19</del>	<del>21.7</del>	<del>+26</del>	<del>40</del>	<del>9.5</del>	<del>Not in Dm.</del>
530			19	24.1	+26	40		Not in Dm.
531			19	24.1	+26	37		Not in Dm.
532	+26	3561	19	22.4	+26	46	9.2	✓
533	+26	3563	19	22.8	+26	40	9.4	✓
534			19	25.1	+26	36		Not in Dm.
535	+26	3569	19	24.1	+26	30	9.5	✓
536			19	26.0	+26	17		Not in Dm.
537			19	26.8	+26	40		Not in Dm.
538			19	26.6	+26	25		Not in Dm.
539			19	27.2	+26	16		Not in Dm.
540	+26	3571	19	25.2	+26	2	9.2	✓
541	+25	3852	19	23.7	+25	42	9.5	✓
542	+25	3853	19	23.8	+25	29	9.4	✓
543			19	26.1	+25	22		Not in Dm.
544	+25	3857	19	24.4	+25	24	9.4	✓
545	+25	3858	19	24.7	+25	19	9.5	✓
546	+25	3859	19	24.8	+25	25	9.5	✓
547	+25	3860	19	25.0	+25	31	9.4	✓
548	+25	3861	19	25.1	+25	32	9.3	✓
549			19	27.6	+25	23		Not in Dm.
550			19	27.3	+25	50		Not in Dm.



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NF 8116

F.C.

551	4	A3
552	3	F0
553	5	F2
554	2	G0
555	3	K2
556	2	F0
557	4	A0
558	3	A0
559	4	B5
560	4	A2
561	3	K2
562	7	B9
563	8	F2
564	3	A5
565	2	K0
566	2	A0
567	3	G0
568	3	A0
569	1	F8
570	2	A0
571	1	A
571a	1	A
572	6	G0
573	1	A
574	2	A
575	2	G0

K line very strong.

MF 922

Mar. 20, 1930

551 +25 <sup>0</sup>	3862	19 <sup>h</sup>	25.9	+25	53	9.5	✓
552 +25	3863	19 <sup>h</sup>	26.0	+25	41	9.4	✓
553 +26	3575	19	25.8	+26	11	9.5	✓
554		19	27.7	+26	36		not in dm.
555 +26	3576	19	25.9	+26	34	9.4	✓
556		19	28.0	+26	30		not in dm.
557 +26	3577	19	26.5	+26	32	9.5	✓
558		19	28.2	+26	46		not in dm.
559 +26	3578	19	26.6	+26	6	9.0	✓
560 +26	3579	19	26.9	+26	3	9.2	✓
561 +26	3580	19	27.1	+26	2	9.0	✓
562 +25	3872	19	27.3	+25	57	8.9	✓
563 +26	3582	19	27.4	+26	10	9.0	✓
564 +26	3581	19	27.3	+26	17	9.5	✓
565 +26	3584	19	27.4	+26	8	9.4	✓
566 +26	3585	19	27.5	+26	6	9.5	✓
567 +26	3586	19	27.8	+26	24	9.5	✓
568 +25	3867	19	26.4	+25	33	9.4	✓
569		19	28.7	+25	45		not in dm.
570 +25	3871	19	27.0	+25	22	9.5	✓
571 +25	3870	19	26.8	+25	8	9.5	✓
571a +25	3869	19	26.7	+25	8	9.5	✓
572 +25	3868	19	26.5	+25	7	8.8	✓
573		19	28.3	+25	20		not in dm.
574 +25	3866	19	26.4	+25	16	9.5	✓
575 +25	3865	19	26.2	+25	15	9.5	✓



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March 6, 1930

mF 8116

F.C.

576	6	A2
577	3	B9
578	1	F8
579	2	A3
580	1	A
581	1	F8
582	2	A5
583	2	F0
584	1	G0
585	1	F5
586	1	G
587	5	K0
588	3	A2
589	2	G0
590	1	G0
591	6	F5
592	1.6	F8
593	1	G5
594	1	A
595	2	A
596	2	B8
597	3	G0
598	3	A3
599	5	B9
600	5	F2

MF 922

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576 +24 <sup>b</sup>	3769	19 <sup>h</sup>	<sup>m</sup> 24.7	+24 <sup>o</sup>	37'	9.2	✓
577		19	26.8	+24	32		✗ hot in dm.
578		19	26.4	+24	28		✗ hot in dm.
579 +24	3770	19	25.0	+24	32	9.5	✓
580		19	27.3	+24	49		✗ hot in dm.
581		19	27.6	+24	48		✗ hot in dm.
582 +24	3772	19	26.0	+24	34	9.5	✓
583		19	27.4	+24	23		✗ hot in dm.
584		19	27.2	+24	11		✗ hot in dm.
585 +24	3771	19	25.4	+24	0	9.5	✓
586		19	27.9	+23	56		✗ hot in dm.
587 +24	3774	19	26.5	+24	26	9.1	✓
588		19	27.9	+24	39		✗ hot in dm.
589		19	28.3	+24	53		✗ hot in dm.
590		19	28.7	+24	48		✗ hot in dm.
591 +24	3775	19	26.8	+24	39	9.3	✓
592 +24	3777	19	27.5	+24	57	9.1	✓
593		19	29.3	+25	17		✗ hot in dm.
594		19	29.3	+25	29		✗ hot in dm.
595		19	29.7	+25	19		✗ hot in dm.
596		19	29.4	+25	42		✗ hot in dm.
597 +25	3874	19	27.8	+25	40	9.5	✓
598		19	29.9	+25	54		✗ hot in dm.
599 +25	3878	19	28.2	+25	49	9.4	✓
600 +25	3880	19	28.8	+25	33	9.2	✓

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Mar. 11, 1930

NF 8116

F.C.

601	2	K <sub>7</sub>
602	4	F <sub>2</sub>
603	5	B <sub>9</sub>
604	2	G <sub>5</sub>
605	5	A <sub>5</sub>
606	2	F <sub>5</sub>
607	1	F <sub>8</sub>
608	1	K <sub>7</sub>
609	3	A <sub>2</sub>
610	4	F <sub>0</sub>
611	1	F <sub>5</sub>
612	2	A <sub>0</sub>
613	5	A <sub>3</sub>
614	2	A <sub>0</sub>
615	6	A <sub>0</sub>
616	4	A <sub>2</sub>
617	4	A <sub>3</sub>
618	3	A <sub>3</sub>
619	3	A <sub>7</sub>
620	1	G
621	2	A <sub>3</sub>
622	5	B <sub>9</sub>
623	1	A
624	6	K <sub>0</sub>
625	4	A <sub>2</sub>

S. of two

f. of two r.s.

double? lines but <sup>yes</sup> two close lines almost equally bright.

MF 930

Mar. 25, 1930

			<sup>h</sup>	<sup>m</sup>	<sup>250</sup>			
601	+25°	3883	19	29.1	+26	43	8.4	✓
602	+26	3590	19	28.5	+26	2	9.4	✓
603	+26	3591	19	28.6	+26	5	9.0	✓
604	+26	3596	19	29.2	+26	9	9.4	✓
605	<u>+25</u>	<u>3885</u>	19	29.4	+26	0	9.0	✓
606			19	31.3	+25	55		hot in dm.
607			19	31.5	+25	55		hot in dm.
608			19	31.6	+25	55		hot in dm.
609			19	31.8	+25	56		hot in dm.
610	+25	3882	19	28.9	+26	20	9.3	✓
611			19	30.8	+25	10		hot in dm.
612			19	30.8	+25	5		hot in dm.
613	+24	3791	19	29.2	+24	55	9.2	✓
614	+24	3790	19	29.2	+24	43	9.5	✓
615	+24	3793	19	29.4	+24	53	9.0	✓
616	+24	3794	19	29.5	+24	47	9.1	✓
617	+24	3795	19	29.5	+24	50	9.0	✓
618	+25	3887	19	29.6	+25	4	9.3	✓
619	+24	3796	19	29.6	+24	55	9.4	✓
620			19	31.5	+25	4		hot in dm.
621	+25	3880	19	29.9	+25	16	9.5	✓
622	+25	3888	19	29.7	+25	22	9.2	✓
623			19	31.3	+25	40		hot in dm.
624	+26	3601	19	30.8	+26	10	8.5	✓
625	+26	3600	19	29.8	+26	18	9.4	✓



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Mar. 11, 1930

MF 8116

F.C.

626	6	A0
627	4	A0
628	4	A2
629	6	A2
630	6	K0
631	3	A2
632	5	A0
633	4	F0
634	3	A0
635	1	A
636	4	B9
637	3	A0
638	3	K2
639	4	A0
640	1	A
641	1	A
642	3	F0
643	3	A5
644	6	A0
645	6	G0
646	1	F8
647	1	F5
648	1	G0
649	6	A0
650	6	A2

4077? strong

MF 930

Mar. 25, 1930

626	+26°	3602	19 <sup>h</sup>	30.1 <sup>m</sup>	+26°	24'	9.0	✓
627	+26	3604	19	30.3	+26	9	9.2	✓
628			19	32.1	+26	22		✓ hot in sm.
629	+26	3605	19	30.4	+26	21	9.2	✓
630	+26	3608	19	30.4	+26	21	8.5	✓
631	+26	3609	19	30.5	+26	27	9.5	✓
632	+26	3606	19	30.4	+26	38	9.0	✓
633	+26	3593	19	29.0	+26	33	9.5	✓
634			19	30.6	+26	33		✓ hot in sm.
635			19	30.5	+26	41		✓ hot in sm.
636	+26	3592	19	28.6	+26	41	9.4	✓
637			19	33.0	+26	32		✓ hot in sm.
638	+26	3611	19	30.9	+26	23	9.5	✓
639	+26	3610	19	30.6	+26	12	9.4	✓ hot in sm.
640			19	32.9	+26	16		✓ hot in sm.
641			19	32.9	+26	3		✓ hot in sm.
642	+26	3612	19	31.8	+26	0	9.5	✓
643	+25	3894	19	31.2	+25	59	9.5	✓
644	+26	3614	19	31.3	+26	5	9.0	✓
645	+25	3895	19	31.3	+25	50	8.2	✓
646			19	32.8	+25	42		✓ hot in sm.
647			19	32.5	+25	24		✓ hot in sm.
648	+25	3892	19	30.8	+25	4	9.5	✓
649	+24	3810	19	30.7	+24	58	9.0	✓
650	+24	3899	19	30.1	+24	58	8.9	✓



Mar. 11, 1930

mF 8116

F.C.

651	2	A5
652	5	A0
653	2	A5
654	6	A3
655	6	K0
656	2	F5
657	4	G0
658	1	F2
659	3	G0
660	3	A5
661	6	B3
662	2	A7
663	1	F2
664	1	G
665	5	A3
666	6	A2
667	3	F8
668	1	G
669	2	A2
670	4	K0
671	2	G5
672	4	A2
673	3	A0
674	3	A3
675	4	F0

pre. of two

MF 930

Mar. 25, 1930

651			19 <sub>h</sub>						hot in dm.
652	+24°	3802	19	30.4 <sup>m</sup>	+24°	51	9.0	✓	
653	+24	3805	19	30.4 <sup>5</sup>	+24	42	9.3	✓	
654	+24	3808	19	30.7	+24	40	9.2	✓	
655	+24	3809	19	30.7	+24	42	8.5	✓	
656			19	32.2	+24	35			hot in dm.
657	+24	3806	19	30.5	+24	26	9.1	✓	
658			19	32.5	+24	29			hot in dm.
659	+24	3812	19	31.0	+24	12	9.4	✓	
660	+24	3811	19	31.0	+24	22	9.5	✓	
661	+24	3813	19	31.2	+24	8	8.9	✓	
662			19	33.6	+24	28			hot in dm.
663			19	33.5	+24	38			hot in dm.
664			19	33.9	+24	47			hot in dm.
665	+24	3819	19	32.4	+24	44	9.4	✓	
666	+24	3820	19	32.4	+24	54	9.3	✓	
667	+24	3817	19	32.1	+24	58	9.5	✓	
668	+25	3897	19	31.7	+25	9	9.5	✓	
669	+25	3899	19	31.9	+25	14	9.5	✓	
670	+25	3898	19	31.9	+25	28	9.0	✓	
671	+25	3902	19	32.3	+25	22	9.4	✓	
672			19	34.1	+25	51			hot in dm.
673	+26	3619	19	32.0	+26	8	9.4	✓	
674	+26	3624	19	32.4	+26	11	9.3	✓	
675	+26	3617	19	32.0	+26	25	9.3	✓	



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MF 8116

F.C.

676	2	K2
677	2	K0
678	6	A0
679	3	K5
680	2	A0
681	2	A3
682	3	K5
683	4	A2
684	6	A3
685	3	F2
686	3	A0
687	2	A0
688	3	K0
689	5	K0
690	6	A2
691	3	A7
692	4	K8
693	3	A7
694	4	F2
695	4	F5
696	2	F8
697	3	G0
698	3	A2
699	5	F2
700	3	G0

n. of a group

MF 930

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676	+26	3621	19	32.2	+26	23	9.3	✓
677	+26	3623	19	32.3	+26	24	9.4	✓
678	+26	3618	19	32.0	+26	38	9.3	✓
679	+26	3625	19	32.8	+26	35	9.2	✓
680			19	34.7	+26	25		✓ not in dm.
681	+26	3627	19	33.1	+26	6	9.5	✓
682	+25	3907	19	33.2	+25	57	9.2	✓
683	+25	3905	19	32.9	+25	40	9.5	✓
684	+25	3909	19	33.4	+25	45	8.9	✓
685	+25	3906	19	32.9	+25	20	9.4	✓
686	+25	3904	19	32.7	+25	1	9.4	✓
687			19	34.8	+24	53		✓ not in dm.
688			19	35.0	+24	54		✓ not in dm.
689	+24	3828	19	33.4	+24	44	8.9	✓
690	+24	3827	19	33.3	+24	54	9.0	✓
691	+24	3821	19	32.5	+24	34	9.5	✓
692	+24	3822	19	32.6	+24	26	9.5	✓
693			19	34.5	+24	20		✓ not in dm.
694	+24	3818	19	32.4	+24	15	9.2	✓
695	+24	3816	19	32.0	+24	15	9.4	✓
696	+23	3719	19	32.0	+23	56	9.5	✓
697	+24	3824	19	32.9	+24	1	9.1	✓
698	+24	3826	19	33.0	+24	6	9.5	✓
699	+24	3829	19	33.6	+24	15	9.2	✓
700	+24	3836	19	34.2	+24	27	9.2	✓



Mar. 11, 1930

mF 8116

F.c.

701	6	A <sub>0</sub>
702	1	B <sub>9</sub>
703	1	F <sub>5</sub>
704	3	G <sub>5</sub>
705	1	A <sub>7</sub>
706	2	B <sub>8</sub>
707	2	B <sub>9</sub>
708	3	F <sub>8</sub>
709	2	B <sub>5</sub>
710	2	A <sub>0</sub>
711	3	F <sub>5</sub>
712	2	B <sub>9</sub>
713	1	G <sub>0</sub>
714	3	F <sub>5</sub>
715	3	F <sub>2</sub>
716	1	F <sub>8</sub>
717	2	G <sub>0</sub>
718	2	F <sub>8</sub>
719	2	F <sub>5</sub>
720	2	G <sub>0</sub>
721	1	A
722	2	G <sub>0</sub>
723	2	F <sub>8</sub>
724	2	F
725	3	F <sub>8</sub>

perhaps Comp.

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701	+24	3778	19	27.6	+24	31	9.0	✓
702			19	28.9	+24	34		Not in sm.
703			19	28.8	+24	20		Not in sm.
704	+24	3776	19	26.9	+24	8	9.5	✓
705			19	28.7	+24	11		Not in sm.
706	+23	3683	19	27.3	+23	52	9.4	✓
707			19	28.7	+23	51		Not in sm.
708			19	29.4	+23	45		Not in sm.
709			19	29.3	+23	36		Not in sm.
710			19	29.5	+23	35		Not in sm.
711			19	29.6	+23	29		Not in sm.
712			19	29.2	+23	23		Not in sm.
713			19	28.7	+23	12		Not in sm.
714			19	28.6	+23	0		Not in sm.
715	+22	3730	19	26.8	+22	48	9.5	✓
716			19	28.1	+22	45		Not in sm.
717			19	28.4	+22	33		Not in sm.
718			19	28.6	+22	24		Not in sm.
719			19	28.9	+22	30		Not in sm.
720			19	29.6	+22	20		Not in sm.
721			19	29.2	+22	7		Not in sm.
722			19	28.9	+21	53		Not in sm.
723			19	28.8	+21	45		Not in sm.
724	+21	3818	19	26.9	+21	30	9.5	✓
725	+21	3811	19	25.8	+21	33	9.3	✓

19



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mF 8116

F.C.

726	2	G <sub>0</sub>
727	3	G <sub>0</sub>
728	1	G
729	2	G <sub>0</sub>
730	1	K <sub>5</sub>
731	1	K <sub>0</sub>
732	2	G <sub>0</sub>
733	2	F <sub>8</sub>
734	2	G <sub>0</sub>
735	1	F <sub>5</sub>
736	1	G <sub>0</sub>
737	2	F <sub>5</sub>
738	3	A <sub>2</sub>
739	1	F <sub>5</sub>
740	2	G <sub>0</sub>
741	1	F <sub>5</sub>
742	1	G
743	1	A
744	2	G <sub>5</sub>
745	4	A <sub>2</sub> F <sub>5</sub>
746	2	F <sub>0</sub>
747	2	F <sub>5</sub>
748	2	F <sub>2</sub>
749	3	A <sub>3</sub>
750	2	F <sub>0</sub>

n. of two

(Orig 745 a mixture of 2 spectra)

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726		19	27.4	+21	37	Not in sm.
727		19	26.8	+21	42	Not in sm.
728		19 <sub>h</sub>	27.2	+21	27	Not in sm.
729	+23 3812	19	25.9	+23	16	9.4 ✓
730		19	28.6	+21	16	Not in sm.
731	+23 3820	19	26.9	+23	13	9.5 ✓
732		19	29.6	+20	59	Not in sm.
733		19	29.8	+21	10	Not in sm.
734		19	29.6	+21	25	Not in sm.
735		19	29.9	+20	39	Not in sm.
736		19	29.8	+20	27	Not in sm.
737	+20 4187	19	28.1	+20	25	9.5 ✓
738	+20 4199	19	29.9	+20	36	9.3 ✓
739		19	31.2	+21	18	Not in sm.
740	+23 3833	19	28.3	+23	41	9.4 ✓
741		19	30.5	+22	2	Not in sm.
742		19	30.9	+22	24	Not in sm.
743		19	30.0	+22	47	Not in sm.
744		19	29.7	+22	53	Not in sm.
745		19	29.0	+22	42	Not in sm.
746		19	31.0	+23	14	Not in sm.
747	+23 3702	19	29.2	+23	6	9.4 ✓
748	+23 3697	19	28.8	+23	10	9.1 ✓
749	+23 3698	19	28.8	+23	9	9.4 ✓
750		19	30.2	+23	33	Not in sm.



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mF 8116

F.C.

751	1	K <sub>0</sub>
752	3	K <sub>2</sub>
753	1	A <sub>5</sub>
754	4	F <sub>0</sub>
755	4	B <sub>8</sub>
756	1	F <sub>8</sub>
757	3	B <sub>8</sub>
758	3	A
759	3	A <sub>0</sub>
760	2	F <sub>0</sub>
761	1	A
762	3	G <sub>5</sub>
763	6	A <sub>7</sub>
764	3	K <sub>7</sub>
765	6	G <sub>0</sub>
766	3	K <sub>2</sub>
767	3	F <sub>0</sub>
768	1	G <sub>5</sub>
769	1	K <sub>0</sub>
770	1	A <sub>2</sub>
771	3	A <sub>0</sub>
772	2	B <sub>9</sub>
773	3	A
774	5	G <sub>0</sub>
775	1	F <sub>5</sub>

brightest of a group.

I 16091

Mar. 25, 1930

751	+23 <sup>0</sup>	3696	19 <sup>h</sup>	28.8	+23 <sup>0</sup>	29 <sup>1</sup>	9.5	✓
752	+23	3701	19	29.0	+23	37	9.5	✓
753			19	30.8	+23	47		Not in dm.
754	+23	3695	19	28.7	+23 <sup>4</sup>	41	9.3	✓
755	+23	<del>3691</del>	19	28.0	+23	0	9.3	✓
756			19	29.5	+24	7		Not in dm.
757	+24	3779	19	28.0	+24	14	9.4	✓
758	+24	3781	19	28.2 <sup>3</sup>	+24	7	9.4	✓
759	+24	3784	19	28.7	+24	17	9.3	✓
760			19	30.5	+24	33		Not in dm.
761			19	29.7	+24	53		Not in dm.
762			19	30.8	+24	37		Not in dm.
763	+24	3786	19	28.9	+24	16	8.9	✓
764	+24	3787	19	28.9	+24	12	9.3	✓
765	+24	3789	19	29.1	+24	21	9.0	✓
766	+24	3792	19	29.4	+24	17	9.5	✓
767	+23	3704	19	29.4	+23	54	9.5	✓
768			19	31.4	+23	44		Not in dm.
769			19	31.3	+23	30		Not in dm.
770			19	31.6	+23	30		Not in dm.
771	+23	3708	19	30.2	+23	20	9.5	✓
772	+23	3710	19	30.4	+23	38	9.5	✓
773			19	32.4 <sup>5</sup>	+23	58		Not in dm.
774	+24	3804	19	30.7	+24	2	9.1	✓
775	+24	3800	19	30.3	+24	6	9.4	✓

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Mar 11, 1930

MF 8116

F.C.

776	2	F <sub>2</sub>
777	2	G <sub>0</sub>
778	2	B <sub>8</sub>
779	2	B <sub>8</sub>
780	2	A <sub>0</sub>
781	1	F <sub>8</sub>
782	2	A <sub>0</sub>
783	2	K <sub>0</sub>
784	3	B <sub>8</sub>
785	2	G <sub>0</sub>
786	3	G <sub>0</sub>
787	2	G <sub>0</sub>
788	2	F <sub>5</sub>
789	2	A <sub>2</sub>
790	1	A
791	2	A <sub>0</sub>
792	3	B <sub>9</sub>
793	2	G <sub>0</sub>
794	2	B <sub>8</sub>
795	1	G <sub>0</sub>
796	1	K <sub>7</sub>
797	3	K <sub>0</sub>
798	3	F <sub>8</sub>
799	3	B <sub>8</sub>
800	2	K <sub>0</sub>
801	5	K <sub>5</sub>
802	3	M <sub>0</sub>
803	5	A <sub>0</sub>
804	5	F <sub>5</sub>
805	5	A <sub>7</sub>

I 16091

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776	+23°	3715	19	31.0	+23°	49'	9.5	✓	
777	+23	3716	19	31.5 <sup>5</sup>	+23	32	9.5	✓	
778			19	32.6	+22	54			hot in dm.
779			19	31.6	+22	53			hot in dm.
780			19	32.8	+22	45			hot in dm.
781			19	33.0	+22	53			hot in dm.
782			19	32.2	+22	15			hot in dm.
783			19	31.6	+22	14			hot in dm.
784	+21	3848	19	30.7	+21	33	9.5	✓	
785			19	32.8	+21	37			hot in dm.
786	+21	3846	19	30.6	+21	18	9.5	✓	
787	+21	3844	19	30.2	+21	9	9.5	✓	
788	+21	3853	19	31.8	+21	14	9.5	✓	
789			19	33.8	+21	35			hot in dm.
790			19	34.1	+21	36			hot in dm.
791			19	34.4	+22	12			hot in dm.
792			19	34.8	+22	31			hot in dm.
793			19	34.6	+22	31			hot in dm.
794			19	34.2	+22	41			hot in dm.
795			19	33.9	+23	32			hot in dm.
796			19	34.3	+23	32			hot in dm.
797	+23	3723	19	32.7	+23	26	9.5	✓	
798			19	34.9	+23	36			hot in dm.
799	+23	3726	19	33.7	+23	30	9.5	✓	
800	+23	3738 <sup>27</sup>	19	33.8	+23	41	9.5	✓	
801	+24	3701	19	10.8	+24	29	8.8		Julian Q.S.C. 6930
802	+24	3704	19	11.1	+24	5	9.0		" " 6932
803	+23	3682	19	53.3	+23	52	9.4		" " 7086
804	+20	4170	19	29.5	+20	11	9.0		" " 7122
805									" " 6979









Mar. 12, 1930

MF 8162

F.C.

1	2	F <sub>0</sub>
2	5	A <sub>5</sub>
3	1	A <sub>2</sub>
4	4	A <sub>7</sub>
5	7	K <sub>0</sub>
6	1	A
7	1	K <sub>0</sub>
8	2	F <sub>5</sub>
9	1	G <sub>0</sub>
10	4	G <sub>0</sub>
11	2	F <sub>0</sub>
12	1	M <sub>0</sub>
13	2	F <sub>0</sub>
14	1	K <sub>7</sub>
15	3	F <sub>2</sub>
16	1	A <sub>0</sub>
17	1	A <sub>2</sub>
18	2	A <sub>0</sub>
19	1	F <sub>0</sub>
20	3	B <sub>8</sub>
21	2	B <sub>9</sub>
22	3	K <sub>5</sub>
22a	1	A <sub>0</sub>
23	2	B <sub>9</sub>
24	3	B <sub>8</sub>
25	1	B <sub>9</sub>

MF 952

Mar. 25, 1930

1		19 <sup>h</sup>	34.5	+17.	23		Not in Dm.
2	+17°	4038	19	33.3	+17	15	9.0
3		19	35.4	+17	22		Not in Dm.
4	+17	4039	19	33.6	+17	14	9.1
5	+17	4043	19	33.7	+17	34	8.2
6		19	34.9	+18	1		Not in Dm.
7	+17	4045	19	34.1	+17	56	9.5
8		19	36.3	+17	53		Not in Dm.
9		19	36.3	+17	41		Not in Dm.
10	+17	4046	19	34.7	+17	18	9.4
11		19	37.0	+17	23		Not in Dm.
12		19	37.1	+17	48		Not in Dm.
13		19	37.3	+17	49		Not in Dm.
14		19	37.4	+17	48		Not in Dm.
15		19	37.5	+17	46		Not in Dm.
16		19	37.7	+17	38		Not in Dm.
17		19	37.6	+17	29		Not in Dm.
18		19	37.8	+17	36		Not in Dm.
19		19	38.0	+17	30		Not in Dm.
20	+17	4057	19	36.1	+17	24	9.3
21	+17	4056	19	36.1	+17	27	9.3
22	+17	4058	19	36.3	+17	22	9.3
22a		19	37.5	+17	52		Not in Dm.
23		19	37.3	+17	57		Not in Dm.
24	+17	4052	19	35.2	+17	57	9.5
25	+17	4053	19	35.2	+17	59	9.5



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MF 8162

F.C.

26	2	F <sub>8</sub>
27	2	G <sub>0</sub>
28	4	A <sub>3</sub>
29	5	F <sub>2</sub>
20	1	A
31	5	B <sub>5</sub>
32	4	K <sub>2</sub>
33	5	B <sub>3</sub>
34	3	B <sub>9</sub>
35	2	B <sub>9</sub>
36	1	A
37	1	K <sub>0</sub>
38	3	G <sub>0</sub>
39	2	G <sub>0</sub>
40	1	A
41	2	G <sub>5</sub>
42	5	A <sub>2</sub>
43	1	G <sub>5</sub>
44	1	F <sub>2</sub>
45	2	G <sub>0</sub>
46	3	G <sub>0</sub>
47	1	F <sub>8</sub>
48	1	G <sub>5</sub>
49	1	F <sub>5</sub>
50	1	G <sub>0</sub>

h. of two

MF 952

Mar. 25, 1920

26	+18°	4199	19	35.4	+18°	9	9.5	✓
27	+18	4201	19	35.4	+18	20	9.5	✓
28	+18	4198	19	35.2	+18	26	9.4	✓
29	+18	4197	19	35.0	+18	17	8.8	✓
30			19	36.9	+18	24		Not in Dm.
31	+18	4193	19	34.8	+18	15	9.2	✓
32	+17	4050	19	34.7	+17	58	8.9	✓
33	+18	4190	19	34.4	+18	2	9.3	✓
34	+18	4192	19	34.6	+18	22	9.5	✓
35	+18	4188	19	34.1	+18	29	9.4	✓
36			19	35.9	+18	22		Not in Dm.
37	+18	4183	19	33.5	+19	22	9.5	✓
38	+19	4116	19	34.5	+19	5	9.4	✓
39	+19	4117	19	34.6	+19	7	9.5	✓
40			19	36.5	+19	22		Not in Dm.
41	+18	4194	19	34.8	+18	47	9.5	✓
42	+18	4196	19	35.0	+18	36	8.9	✓
43	+18	4200	19	35.4	+18	38	9.5	✓
44			19	37.7	+18	48		Not in Dm.
45	+18	4203	19	35.8	+18	37	9.5	✓
46	+18	4205	19	35.9	+18	48	9.4	✓
47	+18	4202	19	35.8	+18	26	9.5	✓
48			19	38.3	+18	27		Not in Dm.
49			19	38.0	+18	14		Not in Dm.
50			19	38.0	+18	8		Not in Dm.

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Mar. 12, 1930

MF 8162

F.C.

51	1	F8
52	5	K0
53	1	K
54	2	A5
55	2	K0
56	1	F8
57	2	G5
58	4	G0
59	3	A2
60	4	F2
61	2	A2
62	2	G0
63	5	G5
64	3	M0
65	1	A
66	6	B8
67	4	B9
68	1	A0
69	3	K0
70	1	G0
71	1	A2
72	2	A0
73	4	F0
74	5	F0
75	6	A5

MF 952

Mar. 25, 1930

51			19 <sub>1</sub>	38.0	+18	4		Hot in Dm.
52	+18°	4206	19	36.2	+18°	3	8.6	✓
53	+17	4061	19	36.5	+17	54	9.5	Hot in Dm.
54			19	38.6	+18	3		Hot in Dm.
55			19	38.6	+18	9		Hot in Dm.
56			19	38.8	+17	54		Hot in Dm.
57			19	38.6	+17	33		Hot in Dm.
58	+17	4062	19	36.7	+17	15	9.2	✓
59			19	39.2	+17	42		Hot in Dm.
60	+17	4064	19	37.3	+17	33	9.3	✓
61			19	39.0	+17	51		Hot in Dm.
62			19	39.2	+17	49		Hot in Dm.
63	+17	4063	19	37.8	+17	56	9.1	✓
64	+17	4066	19	37.4	+17	53	9.3	✓
65	<del>+18</del>	<del>4121</del>	<del>19</del>	<del>39.5</del>	<del>+17</del>	53		Hot in Dm.
66	+17	4069	19	37.7	+17	54	9.0	✓
67	+17	4070	19	37.8	+17	49	9.5	✓
68			19	39.7	+17	32		Hot in Dm.
69	+17	4068	19	37.7	+17	35	9.2	✓
70			19	40.0	+17	30		Hot in Dm.
71			19	39.6	+17	20		Hot in Dm.
72			19	40.1	+17	43		Hot in Dm.
73	+17	4072	19	38.4	+17	39	9.5	✓
74	+17	4074	19	38.5	+17	40	9.5	✓
75	+17	4073	19	38.4	+17	24	9.4	✓



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mF 8162

F.c.

76	2	A <sub>0</sub>	
77	1	A	
78	1	A	
79	3	K <sub>7</sub>	
80	2	A <sub>5</sub>	
80a	3	A <sub>2</sub>	G <sub>0</sub> ← not found S.C.P.
81	3	A <sub>2</sub>	
82	5	F <sub>2</sub>	
83	1	A	
84	1	A	
85	2	G <sub>5</sub>	
86	3	A <sub>7</sub>	
87	3	A <sub>2</sub>	
88	5	B <sub>8</sub>	
89	1	A <sub>5</sub>	
90	1	A <sub>0</sub>	
91	3	B <sub>5</sub>	
92	2	B <sub>8</sub>	
93	2	B <sub>8</sub>	
94	1	K <sub>0</sub>	
95	4	G <sub>0</sub>	
96	1	A	
97	2	A <sub>0</sub>	
98	3	B <sub>9</sub>	
99	4	B <sub>9</sub>	
100	1	G <sub>5</sub>	

MF 952

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76		19	40.5	+17	28		Not in dm.
77		19	40.7	+17	21		Not in dm.
78		19 <sub>h</sub>	41.0	+17	21		Not in dm.
79	+17°	4076	39.1	+17°	22	9.3	✓
80		19	41.5	+17	46		Not in dm.
80a	+17	4079					Not in dm.
81		19	41.4	+17	55		Not in dm.
82	+17	4077	39.5	+17	51	9.3	✓
83		19	41.4	+18	1		Not in dm.
84		19	41.4	+18	3		Not in dm.
85		19	41.1	+18	5		Not in dm.
86		19	41.0	+18	3		Not in dm.
87		19	40.8	+18	8		Not in dm.
88	+18	4220	38.5	+18	8	9.3	✓
89		19	40.4	+18	4		Not in dm.
90		19	40.4	+18	22		Not in dm.
91		19	40.5	+18	35		Not in dm.
92	+18°	21219	38.3	+18	32	9.5	✓
93		19	40.1	+18	34		Not in dm.
94	+18	4215	37.9	+18	21	9.5	✓
95	+18	4211	37.6	+18	22	9.2	✓
96		19	39.4	+18	35		Not in dm.
97		19	39.4	+18	37		Not in dm.
98		19	39.3	+18	25		Not in dm.
99	+18	4209	36.9	+18	18	9.1	✓
100	+18	4212	37.6	+18	6	9.5	✓



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MF P162

F.C.

101	1	G
102	2	F <sub>0</sub>
103	3	A <sub>2</sub>
104	3	K <sub>0</sub>
105	1	A <sub>2</sub>
106	1	A <sub>0</sub>
107	4	F <sub>5</sub>
108	1	K
109	1	G
110	1	B <sub>9</sub>
111	1	A
112	4	F <sub>5</sub>
113	1	A
114	2	A <sub>2</sub>
115	1	A
116	1	A <sub>5</sub>
117	1	K <sub>7</sub>
118	3	F <sub>8</sub>
119	3	B <sub>9</sub>
120	1	A
121	3	F <sub>5</sub>
122	3	A <sub>2</sub>
123	4	<del>A<sub>2</sub></del> F <sub>8</sub> (Orig 123 is darker)
124	2	B <sub>9</sub>
125	2	G <sub>0</sub>

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Mar. 27, 1930

101			19 <sub>h</sub>	39.0	+18'	10	Not in dm.
102	+18°	4207	19	36.5	+18°	29 9.5	✓
103	+18	4208	19	36.9	+18	38 9.5	✓
104	+18	4210	19	37.0	+18	47 9.2	✓
105			19	38.2	+18	57	Not in dm.
106			19	38.2	+19	2	Not in dm.
107	+19	4123	19	36.0	+19	6 9.2	✓
108	+19	4122	19	35.9	+19	16 9.5	✓
109			19	37.8	+19	36	Not in dm.
110			19	36.8	+19	31	Not in dm.
111			19	36.9	+19	12	Not in dm.
112			19	36.9	+19	41	Not in dm.
113			19	37.7	+19	58	Not in dm.
114			19	37.8	+20	3	Not in dm.
115			19	37.9	+20	3	Not in dm.
116	+20°	4237	19	36.3	+20	7 9.5	Not in dm.
117	+20°	4242	19	36.7	+20	3 9.5	Not in dm.
118	+19	4130	19	36.8	+19	58 9.1	✓
119	+19 <sup>20°</sup>	4244	19	36.7	+20	13 9.5	Not in dm.
120	-		19	39.0	+19	54	Not in dm.
121	+19	4126	19	36.5	+19	10 9.5	✓
122			19	38.9	+19	30	Not in dm.
123	+19	4127	19	36.6	+19	40 9.2	Not in dm.
124			19	39.0	+19	33	Not in dm.
125	+19	4131	19	37.5	+19	34 9.5	✓

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MF 8162

F.C.

126	2	F8
127	3	A2
128	1	G0
129	3	A3
130	1	K
131	1	K2
132	1	A
133	2	A3
134	4	G0
135	1	F8
136	2	B9
137	2	A2
138	2	A3
139	2	A
140	2	K0
141	3	B8
142	2	F5
143	1	K5
143a	2	G0
144	6	B8
145	3	A0
146	3	A7
147	2	A5
148	1	F8
149	1	G5
150	5	A3

Lines narrow

I 27769

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126			19 <sub>h</sub>	39.4	+19	0	✓	hot in dm.
127	+18°	4214	19	37.9	+18°	54'	9.5	✓
128			19	39.8	+19	11		✓
129			19	40.0	+19	15		✓
130			19	40.1	+18	49		✓
131	+18	4217	19	38.2	+18	37	9.5	✓
132			19	40.4	+18	44		✓
133			19	40.4	+18	43		✓
134			19	40.4	+18	49		✓
135			19	40.4	+18	53		✓
136			19	40.6	+18	35		✓
137			19	40.9	+18	33		✓
138	+18	4225	19	38.8	+18	31	9.5	✓
139			19	41.0	+18	23		✓
140	+18	4227	19	39.4	+18	11	9.5	✓
141			19	41.3	+18	24		✓
142	+18	<del>4220</del>	<del>19</del>	<del>39.7</del>	<del>+18</del>	<del>12</del>	<del>9.4</del>	<del>Not in dm.</del>
143	+18	4231	19	39.7	+18	10	9.4	✓
143a	+18	4230	19	39.7	+18	12	9.4	✓
144	+18	4232	19	39.8	+18	0	8.8	✓
145	+18	4233	19	39.8	+18	4	9.4	✓
146			19	41.8	+17	52		✓
147			19	42.1	+17	49		✓
148			19	41.7	+17	28		✓
149			19	41.9	+17	29		✓
150	+17	4084	19	40.2	+17	12	8.9	✓



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mF 8162

F. C.

151	4	F5
152	3	F5
153	2	K0
154	3	K0
155	1	K0
156	1	A
157	1	A
158	1	F2
159	1	G5
160	2	G0
161	4	B8
162	2	A0
163	2	F5
164	2	K0
165	2	A5
166	3	A
167	3	A2
168	3	F5
169	3	G0
170	1	A
171	1	G5
172	3	F2
173	3	F5
174	2	B9
175	1	A

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151	+17°	4085	19 <sup>h</sup>	40.3	+17°	17'	9.3	✓
152	+17	4086	19	40.4	+17	34	9.3	✓
153	<del>+17</del>	<del>4094</del>	<del>19</del>	<del>40.8</del>	<del>+17</del>	<del>40</del>	<del>9.5</del>	<del>Not in DM</del>
154	+17	4091	19	40.6	+17	51	9.2	✓
155	+17	4090	19	40.5	+17	51	9.3	✓
156			19	42.4	+17	46		Not in DM.
157			19	42.3	+17	54		Not in DM.
158			19	42.2	+18	2		Not in DM.
159	+17	4087	19	40.5	+17	54	9.4	✓
160	+17	4089	19	40.5	+17	57	9.3	✓
161	+17	4092	19	40.6	+17	58	9.2	✓
162			19	42.7	+18	14		Not in DM.
163			19	42.2	+18	13		Not in DM.
164			19	42.3	+18	23		Not in DM.
165	+18	4234	19	40.0	+18	29	9.5	✓
166	+18	4228	19	39.4	+18	37	9.5	✓
167	+18	4229	19	39.4	+18	40	9.5	✓
168	+19	4130	19	36.8	+19	58	9.1	Not in DM.
169	+18	4226	19	39.2	+18	34	9.5	✓
170	+19	4130	19	36.8	+19	58	9.1	Not in DM.
171			19	41.2	+18	54		Not in DM.
172	+19	4136	19	38.9	+19	2	9.5	✓
173			19	41.0	+19	46		Not in DM.
174			19	41.5	+19	32		Not in DM.
175			19	41.7	+19	31		Not in DM.



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F.C.

176	3	G <sub>0</sub>
177	3	F <sub>2</sub>
178	3	B <sub>8</sub>
179	3	F <sub>5</sub>
180	2	F <sub>5</sub>
181	2	A <sub>0</sub>
182	1	A
183	2	F <sub>5</sub>
184	4	G <sub>0</sub>
185	3	B <sub>9</sub>
186	1	K <sub>5</sub>
187	1	A <sub>3</sub>
188	1	G <sub>5</sub>
189	3	B <sub>9</sub>
190	2	A <sub>0</sub>
191	2	A <sub>0</sub>
192	2	A <sub>0</sub>
193	3	B <sub>9</sub>
194	1	A
195	3	B <sub>5</sub>
196	3	A <sub>2</sub>
197	1	F <sub>0</sub>
198	2	G <sub>0</sub>
199	2	A <sub>0</sub>
200	2	A <sub>2</sub>

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176		19 <sub>h</sub>	41.6	+19	37		✓	hot in dm.
177	+19°	4140	39.8	+19°	37	9.5	✓	
178	+19	4144	39.9	+19	32	9.5	✓	
179	+19	4143	39.9	+19	28	9.5	✓	
180		19	41.9	+19	10		✓	hot in dm.
181		19	41.9	+19	16		✓	hot in dm.
182		19	41.6	+18	58		✓	hot in dm.
183		19	42.1	+18	55		✓	hot in dm.
184	+18	4235	40.1	+18	44	9.3	✓	
185	+19	4145	40.1	+19	3	9.5	✓	
186		19	42.4	+18	48		✓	hot in dm.
187		19	42.3	+18	54		✓	hot in dm.
188		19	42.5	+18	46		✓	hot in dm.
189		19	42.7	+18	53		✓	hot in dm.
190		19	43.0	+18	47		✓	hot in dm.
191		19	43.1	+18	50		✓	hot in dm.
192		19	43.1	+18	34		✓	hot in dm.
193	+18	4241	41.2	+18	30	9.5	✓	
194		19	43.1	+18	20		✓	hot in dm.
195		19	43.2	+18	20		✓	hot in dm.
196	+18	4246	41.5	+18	3	9.5	✓	
197		19	43.2	+18	3		✓	hot in dm.
198	+17	4096	41.7	+17	44	9.5	✓	
199		19	43.2	+17	38		✓	hot in dm.
200		19	42.9	+17	22		✓	hot in dm.

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F.C.

201	3	G7
202	1	K0
203	2	G5
204	1	A5
205	4	B3.
206	3	O
207	1	B9
208	6	A2
209	1	G5
210	4	A0
211	4	K0
212	4	K2
213	1	A0
214	1	A0
215	5	G5
216	2	A0
217	4	A0
218	6	A0
219	3	A2
220	2	A0
221	1	F8
222	1	A
223	3	K0
224	1	B9
225	1	G5

Line 4077? Very strong

MF 952

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201		19	43.0	+17	27	✓	Not in Sm.
202		19	43.2	+17	25	✓	Not in Sm.
203	+17° 4098	19	41.5	+17°	18	9.5	✓
204		19	43.7	+17	39		✓ Not in Sm.
205	+17 4100	19	41.8	+17	53	9.4	✓
206		19	44.0	+17	57		✓ Not in Sm.
207		19	44.2	+17	51		✓ Not in Sm.
208	+17 4103	19	42.4	+17	51	9.1	✓
209		19	44.5	+17	39		✓ Not in Sm.
210	+17 4107	19	43.2	+17	23	9.5	✓
211	+17 4104	19	42.8	+17	44	9.1	✓
212	+17 4108	19	43.2	+17	44	8.6	✓
213		19	44.6	+18	1		✓ Not in Sm.
214		19	44.8	+17	59		✓ Not in Sm.
215	+18 4256	19	42.8	+18	6	8.8	✓
216		19	45.4	+18	7		✓ Not in Sm.
217	<del>+17 4112</del>	19	43.6	+18	0	9.5	✓
218	+18 4109	19	43.4	+17	35	9.1	✓
219		19	45.5	+17	26		✓ Not in Sm.
220		19	45.6	+17	20		✓ Not in Sm.
221		19	46.0	+17	26		✓ Not in Sm.
222		19	45.6	+17	40		✓ Not in Sm.
223	+17 4114	19	43.7	+17	48	9.5	✓
224		19	46.6	+17	58		✓ Not in Sm.
225		19	46.3	+17	45		✓ Not in Sm.

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MF 8162

F.C.

226	1	B9
227	1	G5
228	1	K0
229	1	K5
230	2	G5
231	2	M0
232	3	K7
233	4	F5
234	3	G0
235	4	K0
236	2	F8
237	1	A7
238	1	G5
239	2	B9
240	3	B8
241	4	A2
242	4	B5
243	1	G
244	1	A
245	1	A
246	2	K5
247	1	A7
248	1	F2
249	1	A2
250	3	B8

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226			19	46.4	+17	31		Phot in sm.
227			19	46.8	+17	27		Phot in sm.
228			19	46.7	+17	40		Phot in sm.
229			19 <sub>h</sub>	46.8	+17	54		Phot in sm.
230	+17	4119	19	44.7	+17	52	9.5	✓
231	+18	4268	19	44.2	+18	1	9.4	✓
232	+18	4270	19	44.3	+18	6	9.4	✓
233	+18	4271	19	44.4	+18	6	9.4	✓
234	+18	4272	19	44.4	+18	26	9.5	✓
235	+18	4269	19	44.3	+18	23	9.4	✓
236			19	46.2	+18	37		Phot in sm.
237			19	46.2	+18	37		Phot in sm.
238			19	46.2	+18	21		Phot in sm.
239			19	46.0	+18	24		Phot in sm.
240			19	46.0	+18	31		Phot in sm.
241	+18	4265 <sup>7</sup>	19	44.0 43.9	+18	12	9.3	✓
242	+18	4264	19	43.9	+18	13	9.3	✓
243	+18		19	45.4	+18	20		Phot in sm.
244			19	45.7	+18	25		Phot in sm.
245			19	45.6	+18	25		Phot in sm.
246	+18	4263	19	43.7	+18	34	9.5	✓
247			19	45.5	+18	35		Phot in sm.
248			19	45.4	+18	30		Phot in sm.
249			19	45.3	+18	28		Phot in sm.
250	+18	4261	19	43.2	+18	23	9.3	✓

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MF 8162

F.C.

251	2	G <sub>0</sub>
252	3	B <sub>9</sub>
253	3	K <sub>7</sub>
254	1	F
255	1	G
256	4	B <sub>8</sub>
257	3	F <sub>0</sub>
258	1	G
259	2	F <sub>5</sub>
260	1	F <sub>2</sub>
261	2	A <sub>5</sub>
262	5	B <sub>9</sub>
263	3	F <sub>0</sub>
264	2	A <sub>2</sub>
265	3	B <sub>8</sub>
266	4	G <sub>0</sub>
267	1	K <sub>0</sub>
268	4	F <sub>8</sub>
269	3	B <sub>9</sub>
270	1	A <sub>3</sub>
271	1	F <sub>2</sub>
272	2	B <sub>9</sub>
273	2	A <sub>7</sub>
274	2	F <sub>8</sub>
275	1	M <sub>0</sub>

MF 952

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251		19	45.2	+18	30	✓	Not in Sm.
252		19 <sub>h</sub>	45.2	+18	35	✓	Not in Sm.
253	+18 <sup>0</sup>	4258	43.0	+18 <sup>0</sup>	30	9.0	✓
254		19	44.7	+18	21		✓
255		19	44.6	+18	23		✓
256	+18	4250	42.1	+18	22	9.3	✓
257		19	42.9	+18	18		✓
258		19	43.6	+18	24		✓
259	+18	4247	41.8	+18	36	9.5	✓
260		19	43.7	+18	40		✓
261		19	43.5	+18	42		✓
262	+18	4245	41.4	+18	42	9.0	✓
263		19	42.3	+18	47		✓
264		19	43.3	+18	50		✓
265	+19 <sup>8</sup>	4244	41.3	+19	51	9.4	✓
266	+19	4152	41.6	+19	1	9.2	✓
267	+19	4149	41.1	+19	1	9.5	✓
268	+19	4148	41.0	+19	6	9.3	✓
269		19	43.3	+19	22		✓
270		19	43.0	+19	15		✓
271		19	42.7	+19	9		✓
272		19	42.4	+19	14		✓
273		19	42.3	+19	20		✓
274		19	42.4	+19	29		✓
275		19	42.7	+19	34		✓



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mF 8162

F.C.

276	2	F8
277	4	A2
278	2	F5
279	2	B9
280	6	A5
281	4	B9
282	2	A0
283	2	K2
284	2	B9
285	5	B8
286	2	A3
287	5	A3
288	2	G0
289	1	G5
290	2	A3
291	1	G0
292	2	A2
293	1	K0
294	1	A
295	1	A
296	2	A2
297	1	A
298	5	B5
299	2	F0
300	1	G0

E MF 952

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276			19 <sup>h</sup>	42.8	+19	49		Phot in sm.
277	+19°	4150	19	<del>41.2</del> 41.1	+19°	50'	9.4	✓
278			19	43.3	+19	41		Phot in sm.
279			19	43.3	+19	29		Phot in sm.
280			19	43.5	+19	35		Phot in sm.
281			19	43.8	+19	40		Phot in sm.
282			19	43.9	+19	39		Phot in sm.
283	+19	4159	19	42.1	+19	31	9.4	✓
284			19	44.2	+19	37		Phot in sm.
285	+19	4160	19	42.1	+19	36	9.4	✓
286			19	44.0	+19	28		Phot in sm.
287	+19	4156	19	41.9	+19	18	9.5	✓
288	+19	4157	19	42.0	+19	3	9.5	✓
289	+19	4158	19	42.0	+19	9	9.5	✓
290			19	44.1	+19	11		Phot in sm.
291			19	44.2	+19	24		Phot in sm.
292			19	44.0	+18	48		Phot in sm.
293	+18	4249	19	42.0	+18	50	9.5	✓
294			19	44.3	+18	47		Phot in sm.
295			19	44.4	+18	48		Phot in sm.
296	+18	4255	19	42.6	+18	41	9.5	Phot in sm.
297			19	44.8	+18	51		Phot in sm.
298	+18	4259	19	43.0	+18	50	9.2	✓
299	+18	4260	19	43.1	+18	57	9.4	✓
300			19	44.7	+19	24		Phot in sm.



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NF 8162

F.C.

301	1	a
302	4	B <sub>9</sub>
303	3	B <sub>8</sub>
304	4	B <sub>9</sub>
305	1	F <sub>2</sub>
306	1	G <sub>0</sub>
307	3	F <sub>5</sub>
308	4	F <sub>0</sub>
309	1	B <sub>9</sub>
310	1	A <sub>7</sub>
311	2	A <sub>5</sub>
312	1	A <sub>7</sub>
313	1	B <sub>9</sub>
314	4	A <sub>0</sub>
315	4	K <sub>0</sub>
316	4	A <sub>7</sub>
317	2	A <sub>7</sub>
318	1	G
319	2	A <sub>0</sub>
320	2	B <sub>9</sub>
321	3	F <sub>8</sub>
322	2	A <sub>0</sub>
323	2	B <sub>8</sub>
324	1	F <sub>8</sub>
325	1	a

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301		19 <sub>h</sub>	44.9	+19	30		hot in dm.
302	+19°	4166	43.1	+19°	18	9.5	✓
303		19	45.5	+19	15		hot in dm.
304	+19	4169	43.7	+19	10	9.5	✓
305		19	45.7	+19	23		hot in dm.
306		19	45.8	+19	23		hot in dm.
307		19	46.1	+19	3		hot in dm.
308	+18	4265	43.9	+218	46	9.4	✓
309		19	45.8	+18	50		hot in dm.
310		19	45.8	+18	49		hot in dm.
311		19	46.5	+19	2		hot in dm.
312		19	46.6	+19	2		hot in dm.
313		19	46.0	+19	27		hot in dm.
314		19	46.1	+19	28		hot in dm.
315	+19	4172	44.2	+19	31	9.1	✓
316	+19	4174	44.4	+19	27	9.5	✓
317	+19	4178	44.6	+19	41	9.5	✓
318	+19	4180	44.8	+19	40	9.5	✓
319	+19	4181	44.8	+19	38	9.5	✓
320		19	46.9	+19	37		hot in dm.
321	+19	4179	44.7	+19	13	9.5	✓
322		19	47.0	+19	11		hot in dm.
323		19	47.2	+19	15		hot in dm.
324		19	46.7	+18	47		hot in dm.
325		19	46.6	+18	39		hot in dm.



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F.c.

326	3	G <sub>0</sub>
327	1	G
328	4	G <sub>5</sub>
329	1	B <sub>9</sub>
330	1	A
331	1	G
332		
333	2 <sup>3</sup>	A <sub>3</sub>
334	1	G <sub>5</sub>
335	1	B <sub>9</sub>
336	1	F <sub>8</sub>
337	2	B <sub>9</sub>
338	1	A <sub>5</sub>
339	1	K <sub>2</sub>
340	1	A
341	4	K <sub>0</sub>
342	3	B <sub>8</sub>
343	1	A
344	3	A <sub>3</sub>
345	2	F <sub>0</sub>
346	2	B <sub>9</sub>
347	3	A <sub>0</sub>
348	5	A <sub>2</sub>
349	4	K <sub>0</sub>
350	3	B <sub>8</sub>

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326	+18°	4273	19 <sup>h</sup>	44.8	+18°	22°	9.5	✓
327			19	46.8	+18	37		✓
328	+18	4274	19	45.1	+18	30	9.2	✓
329			19	46.8	+18	12		✓
330			19	47.0	+18	12		✓
331			19	47.2	+17	26		✓
332			19	47.2	+17	19		✓
333			19	47.8	+17	21		✓
334	+17	4124	19	45.8	+17	28	9.5	✓
335			19	47.9	+17	33		✓
336			19	48.0	+17	31		✓
337			19	48.0	+17	26		✓
338			19	47.1	+17	49		✓
339			19	47.2	+17	55		✓
340			19	47.6	+17	57		✓
341	+17	4125	19	45.8	+17	54	9.1	✓
342	+17	4126	19	45.8	+17	59	9.5	✓
343			19	47.9	+17	52		✓
344	+17	4127	19	46.0	+17	48	9.5	✓
345			19	48.1	+17	51		✓
346			19	48.1	+17	56		✓
347			19	48.3	+17	54		✓
348	+17	4128 <sup>3</sup>	19	46.5	+17	57	8.8	✓
349	+17	4132	19	46.7	+17	59	8.9	✓
350	+18	4280	19	46.1	+18	7	9.5	✓



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MF 8162

F.C.

351	1	A
352	3	G <sub>0</sub>
353	1	F <sub>5</sub>
354	2	F <sub>8</sub>
355	1	A <sub>7</sub>
356	2	A <sub>5</sub>
357	1	G
358	1	A
359	1	K <sub>7</sub>
360	4	F <sub>2</sub>
361	1	K
362	1	F <sub>0</sub>
363	2	K <sub>0</sub>
364	3	M <sub>0</sub>
365	1	A <sub>5</sub>
366	2	A <sub>7</sub>
367	4	G <sub>0</sub>
368	4	F <sub>0</sub>
369	1	K <sub>7</sub>
370	2	M <sub>0</sub>
371	2	A <sub>0</sub>
372	3	F <sub>5</sub>
373	1	F <sub>0</sub>
374	1	F <sub>0</sub>
375	2	A <sub>5</sub>

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351		19	49.0	+18	29	✓	Not in dm.
352	+18°	4281	46.2	+18°	28	9.0	✓
353		19	48.2	+18	32		✓
354	+18	4278	46.0	+18	31	9.5	✓
355		19	47.8	+18	37		✓
356		19	47.4	+18	58		✓
357		19	47.1	+18	58		✓
358		19	47.7	+18	52		✓
359	+18	4277	46.0	+18	54	9.5	✓
360	+19	4190	46.1	+19	5	9.3	✓
361		19	47.5	+19	15		✓
362		19	47.7	+19	22		✓
363	+19	4186	45.5	+19	22	9.4	✓
364		19	47.3	+19	28		✓
365	+19	4185	45.4	+19	34	9.3	✓
366		19	47.7	+19	52		✓
367	+19	4189	46.0	+19	38	9.5	✓
368		19	48.2	+19	47		✓
369		19	48.2	+19	38		✓
370	+19	4188	45.9	+19	24	9.1	✓
371	+19	4191	48.3	+19	20		✓
371	+19	4191	46.5	+19	13	9.5	✓
372		19	48.5	+19	33		✓
373	+19°	4191	46.5	+19	13	9.5	✓
374		19	48.6	+19	24		✓
375	+19	4193	46.8	+19	15	9.5	✓

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F.C.

376	2	A <sub>0</sub>
377	2	F <sub>0</sub>
378	3	K <sub>2</sub>
379	3	B <sub>0</sub>
380	1	K
381	1	G <sub>5</sub>
382	1	F <sub>0</sub>
383	3	A <sub>0</sub>
384	4	G <sub>0</sub>
385	1	F <sub>0</sub>
386	1	A <sub>2</sub>
387	3	B <sub>9</sub>
388	1	F <sub>5</sub>
389	4	K <sub>0</sub>
390	2	M <sub>0</sub>
391	3	F <sub>8</sub>
392	2	B <sub>8</sub>
393	2	A <sub>0</sub>
394	4	F <sub>2</sub>
395	3	F <sub>8</sub>
396	2	B <sub>9</sub>
397	5	B <sub>9</sub>
398	1	F <sub>5</sub>
399	4	F <sub>0</sub>
400	4	A <sub>0</sub>

Line K strong

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376	+19°	4194	19 <sup>h</sup>	46.9	+19°	20'	9.5	✓
377			19	48.9	+19	11		✓ not in Dm.
378	+19	4197	19	47.1	+19	14	9.2	✓
379	+19	4198	19	47.2	+19	5	9.5	✓
380			19	48.5	+18	56		✓ not in Dm.
381			19	48.5	+18	42		✓ not in Dm.
382			19	48.6	+18	47		✓ not in Dm.
383	+18	4285	19	46.8	+18	37	9.5	✓
384	+18	4286	19	46.9	+18	42	9.4	✓
385			19	48.6	+18	18		✓ not in Dm.
386			19	48.7	+18	18		✓ not in Dm.
387	+18	4288	19	47.0	+18	5	9.4	✓
388			19	49.0	+18	4		✓ not in Dm.
389	+17	4133	19	46.7	+17	39	9.1	✓
390	+17	4134	19	46.8	+17	42	9.2	✓
391			19	48.9	+17	29		✓ not in Dm.
392			19	48.7	+17	21		✓ not in Dm.
393			19	48.4	+17	20		✓ not in Dm.
394	+17	4137	19	47.3	+17	35	9.0	✓
395	+17	4140	19	47.7	+17	21	9.2	✓
396			19	49.8	+17	39		✓ not in Dm.
397	+17	4144	19	48.3	+17	23	9.0	✓
398			19	49.7	+17	47		✓ not in Dm.
399			19	49.8	+17	53		✓ not in Dm.
400	+17	4141	19	48.1	+17	45	9.5	✓



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F.C.

401	1	G <sub>0</sub>
402	2	B <sub>2</sub>
403	2	A <sub>0</sub>
404	4	A <sub>0</sub>
405	3	K <sub>2</sub>
406	3	A <sub>3</sub>
407	3	K <sub>0</sub>
408	2	F <sub>5</sub>
409	2	A
410	3	A <sub>3</sub>
411	1	K <sub>7</sub>
412	3	B <sub>8</sub>
413	2	A <sub>3</sub>
414	2	A <sub>5</sub>
415	1	A <sub>0</sub>
416	3	F <sub>0</sub>
417	2	F <sub>8</sub>
418	2	B <sub>9</sub>
419	2	F <sub>5</sub>
420	6	F <sub>8</sub>
421	2	K <sub>7</sub>
422	1	K <sub>0</sub>
423	1	A <sub>2</sub>
424	1	A
425	2	F <sub>5</sub>

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401		19	50.2	+17	58		Not in Dm.
402		19	50.4	+17	58		Not in Dm.
403		19 <sub>h</sub>	50.4	+17	48		Not in Dm.
404	+17°	4145	19	48.4	+17°	17' 9.4	✓
405	+17°	4146	19	48.9	+17	53 9.1	Not in Dm.
406	+17	4146	19	51.0	+18	53 9.2	Not in Dm.
407	+17	4150	19	49.5	+17	44 9.3	✓
408		19	51.6	+17	27		Not in Dm.
409	+17	4154	19	50.0	+17	16 9.4	✓
410	+17	4157	19	50.0	+17	23 9.3	✓
411		19	51.9	+17	46		Not in Dm.
412		19	52.0	+17	46		Not in Dm.
413		19	51.9	+17	52		Not in Dm.
414	+18	4312	19	51.7	+18	12 18	Not in Dm.
415		19	52.1	+18	11		Not in Dm.
416	+18	4317	19	50.2	+18	12 9.3	✓
417	+18	4316	19	50.2	+18	27 9.5	✓
418		19	52.2	+18	33		Not in Dm.
419		19	51.9	+18	55		Not in Dm.
420	+18	4314	19	49.1	+18	42 8.9	✓
421	+18	4310	19	49.4	+18	31 9.5	✓
422		19	51.4	+18	35		Not in Dm.
423		19	51.5	+18	29		Not in Dm.
424	+18	4308	19	49.3	+18	21 9.5	✓
425	+18	4306	19	49.1	+18	7 9.5	✓

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F.C.

426	2	A <sub>0</sub>	
427	5	K <sub>0</sub>	
428	6	A <sub>0</sub>	
429	1	B <sub>9</sub>	
430	5	A <sub>2</sub>	
431	1	A	
432	1	F <sub>0</sub>	
433	3	B <sub>8</sub>	K line strong
434	1	F <sub>5</sub>	
435	1	M <sub>0</sub>	
436	1	K <sub>0</sub>	
437	3	F <sub>2</sub>	
438	4	B <sub>9</sub>	
439	5	A <sub>0</sub>	
440	4	A <sub>3</sub>	
441	3	A <sub>2</sub>	
442	3	G <sub>0</sub>	
443	3	A <sub>0</sub>	
444	2	A <sub>0</sub>	
445	3	G <sub>0</sub>	
446	2	G <sub>5</sub>	
447	1	K <sub>0</sub>	
448	1	A <sub>7</sub>	
449	5	K <sub>5</sub>	
450	2	A <sub>5</sub>	

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426 +18°	4304	19	48.8	+18°	5	9.5	✓
427 +18	4299	19	48.4	+18	19	8.8	✓
428 +18	4298	19	48.3	+18	10	9.2	✓
429		19	50.2	+18	23		not in dm.
430 +18	4295	19	48.2	+18	17	9.1	✓
431		19	50.2	+18	11		not in dm.
432		19	49.7	+18	29		not in dm.
433 +18	4292	19	47.6	+18	27	9.4	✓
434		19	49.4	+18	29		not in dm.
435 +18	4299 <sup>8</sup>	19	47.2	+18	44	9.5	✓
436		19	49.6	+18	52		not in dm.
437 +18	4291	19	47.5	+18	58	9.5	✓
438 +18	4294	19	48.0	+19	0	9.3	✓
439 +18	4293	19	48.0	+18	43	9.2	✓
440 +18	4297	19	48.3	+18	45	9.3	✓
441 +18	4300	19	48.5	+18	47	9.3	✓
442 +18	4302	19	48.7	+18	39	9.2	✓
443 +18	4303	19	48.7	+18	42	9.4	✓
444		19	51.0	+18	48		not in dm.
445 +18	4307	19	49.2	+18	40	9.2	✓
446 +18	4309	19	49.3	+18	43	9.5	✓
447 +18	4311	19	49.4	+18	45	9.5	✓
448		19	51.1	+18	57		not in dm.
449 +18	4301	19	48.6	+18	55	8.9	✓
450 +18	4296	19	48.3	+18	56	9.5	✓

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F.C.

451	4	A0
452	1	G5
453	3	A3
454	2	B5
455	1	K5
456	3	K2
457	1	A5
458	2	K5
459	5	A0
460	3	F8
461	3	G5
462	2	A7
463	1	K0
464	4	B8
465	4	G0
466	1	A2
467	1	F8
468	4	A2
469	1	A3
470	4	A2
471	5	A2
472	4	A3
473	2	B9
474	1	A0
475	3	B9

~~Lines broad, double?~~ No

Lines narrow

Lines narrow

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451		19	50.3	+19	10		Not in dm.
452		19	50.0	+19	21		Not in dm.
453		19	50.4	+19	22		Not in dm.
454		19	50.7	+19	25		Not in dm.
455		19	50.6	+19	14		Not in dm.
456 +19°	4201	19	48.9	+19	5	9.5	✓
457		19	50.8	+19	35		Not in dm.
458 +19	4203	19	49.4	+19	30	9.3	✓
459 +19	4204	19	49.1	+19	21	9.2	✓
460 +19	4207	19	49.2	+19	25	9.4	✓
461 +19	4209	19	49.2	+19	24	9.4	✓
462		19	51.3	+19	39		Not in dm.
463		19	51.2	+19	14		Not in dm.
464 +19	4210	19	49.4	+19	9	9.3	✓
465 +19	4211	19	49.4	+19	13	9.5	✓
466		19	51.5	+19	23		Not in dm.
467 +19	4212	19	49.9	+19	13	9.5	✓
468		19	51.8	+19	10		Not in dm.
469		19	52.2	+19	22		Not in dm.
470 +19°	4217	19	50.4	+19	13	9.3	Not in dm.
471 +19	4218	19	50.4	+19	19	9.3	Not in dm.
472 +19	4216	19	50.3	+19	28	9.5	✓
473 +19	4218	19	50.4	+19	40	9.5	✓
474		19	52.3	+19	54		Not in dm.
475		19	52.3	+19	44		Not in dm.

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MF 8162

F.C.

476	1	G <sub>0</sub>
477	1	K <sub>5</sub>
478	1	G <sub>0</sub>
479	2	G <sub>0</sub>
480	2	F <sub>8</sub>
481	1	K <sub>7</sub>
482	2	A <sub>0</sub>
483	6	G <sub>5</sub>
484	3	M <sub>0</sub>
485	5	A <sub>3</sub>
486	2	A <sub>5</sub>
487	1	K <sub>5</sub>
488	2	A <sub>7</sub>
489	1	G <sub>0</sub>
490	3	G <sub>0</sub>
491	1	G <sub>5</sub>
492	2	G <sub>5</sub>
493	1	G <sub>0</sub>
494	1	G <sub>5</sub>
495	1	F <sub>2</sub>
496	4	B <sub>9</sub>
497	1	G <sub>0</sub>
498	3	A <sub>0</sub>
499	1	A <sub>2</sub>
500	3	A <sub>3</sub>

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476		19 <sup>h</sup>	52.1	+19	38		✓	hot in dm.
477 +19	4213	19	<del>50.0</del> 49.9	+19	24'	9.5	✓	
478		19	51.8	+19	41		✓	hot in dm.
479		19	51.9	+19	50		✓	hot in dm.
480		19	52.0	+19	58		✓	hot in dm.
481		19	51.4	+19	50		✓	hot in dm.
482		19	51.4	+19	55		✓	hot in dm.
483 +19	4805	19	49.1	+19	53	8.5	✓	
484 +19	4802	19	49.0	+19	51	9.0	✓	
485		19	50.6	+20	0		✓	hot in dm.
486		19	50.1	+19	43		✓	hot in dm.
487 +19	4200	19	48.1	+19	28	9.5	✓	
488		19	50.2	+19	27		✓	hot in dm.
489		19	50.1	+19	33		✓	hot in dm.
490		19	49.5	+19	43		✓	hot in dm.
491		19	49.3	+19	40		✓	hot in dm.
492		19	49.5	+19	51		✓	hot in dm.
493		19	49.3	+19	24		✓	hot in dm.
494		19	49.2	+19	27		✓	hot in dm.
495		19	48.8	+19	48		✓	hot in dm.
496 +19	4192	19	46.8	+19	55	9.3	✓	
497		19	48.4	+19	57		✓	hot in dm.
498		19	48.3	+20	0		✓	hot in dm.
499		19	48.1	+20	8		✓	hot in dm.
500 +20	41317	19	46.8	+20	6	9.5	✓	hot in dm.

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MF 8162

F.C.

501	2	G <sub>0</sub>
502	1	F <sub>0</sub>
503	2	F <sub>8</sub>
504	2	A <sub>7</sub>
+ 505	2	F <sub>5</sub>
506	2	F <sub>8</sub>
507	1	G <sub>0</sub>
508	2	K <sub>9</sub>
509	2	F <sub>5</sub>
510	2	A <sub>3</sub>
511	1	G <sub>5</sub>
512	2	F <sub>8</sub>
513	1	A <sub>0</sub>
514	1	A <sub>2</sub>
515	2	G <sub>0</sub>
516	2	G <sub>5</sub>
517	1	F <sub>5</sub>
518	2	F <sub>0</sub>
519	2	A <sub>0</sub>
520	2	K <sub>7</sub>
521	1	K <sub>0</sub>
522	1	F <sub>5</sub>
523	1	G
524	3	F <sub>5</sub>
525	1	G <sub>5</sub>

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501	+21°	3861	19 <sup>h</sup>	33.1	+21°	3'	9.3	✓
502			19	35.1	+21	9		Not in sm.
503	+21	3865	19	33.6	+21	30	9.4	✓
504	+21	3866	19	33.7	+21	36	9.5	✓
505	+21	3873	19	34.8	+21	11	9.4	✓
506	+20	4220	19	34.2	+20	45	9.2	✓
507	+20	4222	19	34.6	+20	51	9.5	✓
508	+20	4225	19	35.0	+20	55	9.5	✓
509			19	36.8	+20	28		Not in sm.
510	+20	4223	19	34.8	+20	20	9.5	✓
511			19	37.3	+20	26		Not in sm.
512	+20	4228	19	35.3	+20	24	9.4	✓
513			19	37.3	+20	48		Not in sm.
514			19	37.8	+20	29		Not in sm.
515	+20	4239	19	36.8	+20	36	9.5	✓
516			19	38.9	+20	56		Not in sm.
517	+21	3891	19	37.2	+21	7	9.5	✓
518			19	38.2	+21	8		Not in sm.
519			19	38.4	+21	16		Not in sm.
520	+21	3884	19	36.6	+21	24	9.5	✓
521			19	37.7	+21	9		Not in sm.
522			19	37.5	+21	12		Not in sm.
523			19	37.2	+21	23		Not in sm.
524	+21	3875	19	35.2	+21	23	9.5	✓
525			19	36.6	+21	35		Not in sm.

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March 14, 1930

mF8162

F.C.

526	2	F5
527	3	F8
528	1	F5
529	2	K7
530	1	A2
531	1	F5
532	1	M0
533	6	A2
534	1	G0
535	1	A3
536	1	K7
537	1	G
538	1	A5
539	1	A7
540	2	G0
541	1	F8
542	3	F2
543	3	F5
544	1	A
545	1	F0
546	4	B9
547	4	F2
548	2	A0
549	2	G5
550	3	K0

I 16091

Mar. 26, 1930

526	+21 <sup>0</sup>	3869	18 <sup>9h</sup>	34.3	+21 <sup>6</sup>	37 <sup>1</sup>	9.5	✓
527	+21	3874	19	34.7	+21	50	9.5	✓
528			19	37.2	+21	56		not in sm.
529			19	37.4	+21	41		not in sm.
530			19	37.6	+21	26		not in sm.
531			19	38.4	+21	45		not in sm.
532	<del>+21</del>	<b>3882</b>	19	<b>36.4</b>	<b>+21</b>	<b>51</b>	<b>9.5</b>	not in sm.
533	+21	3883	19	36.6	+21	44	9.4	✓
534			19	39.5	+21	25		not in sm.
535			19	39.7	+21	17		not in sm.
536	+21	3894	19	38.0	+21	30	9.4	✓
537	+21	389 <sup>6</sup>	19	38.4	+21	22 18	9.5	✓
538	+21	389 <sup>7</sup>	19	38.4	+21	18	9.5	✓
539			19	40.6	+21	2		not in sm.
540	+20	4247	19	37.4	+20	50	9.5	✓
541			19	39.5	+21	6		not in sm.
542			19	39.6	+20	30		not in sm.
543	+20	4250	19	37.7	+20	6	9.5	✓
544			19	40.0	+19	50		not in sm.
545			19	40.2	+20	10		not in sm.
546	+20	4256	19	38.5	+20	13	9.5	✓
547	+20	4255	19	38.3	+20	18	9.4	✓
548			19	40.7	+20	2		not in sm.
549	+20	4260	19	38.9	+20	3	9.5	✓
550	+19	4138	19	39.1	+19	54	9.5	✓



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NF 8162

F.C.

551	1	G
552	1	F5
553	1	A7
554	1	F5
555	4	A2
556	3	F8
557	1	F8
558	2	F0
559	2	F8
560	1	G0
561	1	G5
562	1	K0
563	2	A2
564	2	A3
565	3	A0
566	2	G0
567	2	A3
568	2	G0
569	3	A2
570	2	A5
571	2	B8
572	3	A3
573	3	B8
574	1	G5
575	1	A

Lines wide, look up <sup>not darker in</sup> m 1952

I 16091

Mar. 26, 1930

551		19	40.9	+19	53		not in sm.
552		19	41.4	+19	51		not in sm.
553		19	41.8	+19	56		not in sm.
554		19 <sub>h</sub>	41.9	+19	56		not in sm.
555	+20°	4269	39.9	+20°	21	9.3	✓
556	+20	4264	39.3	+20	21	9.5	✓
557		19	41.1	+20	24		not in sm.
558		19	41.0	+20	31		not in sm.
559		19	40.8	+20	37		not in sm.
560		19	40.6	+20	31		not in sm.
561		19	40.3	+20	36		not in sm.
562	+20	4261	39.0	+20	45	9.5	✓
563	+20	4262	39.1	+20	47	9.5	✓
564	+20	4263	39.2	+20	44	9.5	✓
565	+20	4265	39.4	+20	53	9.5	✓
566		19	41.5	+20	40		not in sm.
567		19	42.2	+20	43		not in sm.
568		19	42.2	+20	56		not in sm.
569	+21	3904	40.1	+21	7	9.5	✓
570		19	41.9	+21	17		not in sm.
571		19	42.1	+21	22		not in sm.
572		19	42.1	+21	28		not in sm.
573	+21	3906	40.5	+21	25	9.5	✓
574		19	41.7	+21	25		not in sm.
575		19	41.2	+21	7		not in sm.

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Mar. 14, 1930

MF 8162

F.C.

576	2	F5
577	1	F8
578	3	K0
579	2	F2
580	1	A0
581	2	F0
582	1	A3
583	3	B8
584	1	K9
585	1	G5
586	2	K9
587	1	G
588	1	A2
589	3	B8
590	2	B8
591	2	F8
592	3	G5
593	2	A3
594	3	B
595	2	A
596	1	K2
597	1	K0
598	3	A0
599	1	A
600	2	G0

I 16091

Mar. 26, 1930

576		19	42.2	+21	46	Not in Sm.
577		19	40.4	+21	38	Not in Sm.
578		19	40.3	+21	34	Not in Sm.
579		19	40.3	+21	45	Not in Sm.
580		19	40.2	+21	43	Not in Sm.
581		19	40.1	+21	45	Not in Sm.
582		19	39.9	+21	57	Not in Sm.
583	+21°	3895 19 <sup>h</sup>	38.0	+21°	56	9.5 ✓
584		19	39.7	+22	6	Not in Sm.
585	+22	3789 19	37.6	+22	4	9.5 ✓
586	+22	3787 19	37.4	+22	4	9.5 ✓
587	+22	3785 19	37.2	+22	3	9.5 ✓
588		19	38.6	+22	10	Not in Sm.
589	+22	3778 19	36.6	+22	13	9.5 ✓
590		19	38.9	+22	30	Not in Sm.
591		19	38.9	+22	39	Not in Sm.
592	+22	3777 19	36.6	+22	36	9.5 ✓
593		19	38.2	+22	59	Not in Sm.
594	+22	3781 19	36.9	+22	56	9.4 ✓
595		19	37.8	+23	8	Not in Sm.
596	+22	3775 19	35.8	+22	48	9.5 ✓
597		19	38.1	+22	39	Not in Sm.
598	+22	3774 19	35.8	+22	24	9.5 ✓
599	+22	3773 19	35.8	+22	21	9.5 ✓
600	+22	3771 19	35.5	+22	18	9.5 ✓



Mar. 20, 1920

MF 8162

F.C.

601	1	A7
602	2	F2
603	3	A3
604	1	A
605	2	G0
606	2	G5
607	3	A7
607a	6	F0
608	3	B9
609	3	A0
610	4	B9
611	1	A0
612	1	A2
613	3	F2
614	3	B
615	2	A2
616	2	A2
617	5	G0
618	1	F5
619	1	G2
620	2	F2
621	2	G0
622	1	G5
623	2	G0
624	1	F5
625	1	G5

Lunis very faint.

I 26148

Apr. 4, 1930

601	+22°	3770	19 <sup>h</sup>	35.3	+22°	20'	9.5	✓	
602			19	37.1	+22	29		✓	hot in dm.
603	+22	3768	19	35.1	+22	13	9.5	✓	
604			19	37.3	+22	14		✓	hot in dm.
605	+22	3763	19	34.6	+22	17	9.5	✓	
606	+22	3762	19	34.4	+22	13	9.5	✓	
607			19	36.0	+21	59		✓	hot in dm.
607a	+21	3871	19	34.3	+21	51	8.6	✓	hot in dm.
608			19	35.7	+22	7		✓	hot in dm.
609			19	35.7	+22	6		✓	hot in dm.
610	+22	3758	19	33.6	+22	6	9.3	✓	
611			19	36.1	+23	2		✓	hot in dm.
612			19	36.2	+23	4		✓	hot in dm.
613	+23	3735	19	34.8	+23	3	9.3	✓	
614	+23	3730	19	34.1	+23	41	9.0	✓	
615			19	35.4	+23	41		✓	hot in dm.
616			19	36.5	+23	37		✓	hot in dm.
617	+23	3734	19	34.6	+23	24	8.5	✓	
618			19	37.0	+23	45		✓	hot in dm.
619			19	37.1	+23	38		✓	hot in dm.
620			19	37.7	+23	34		✓	hot in dm.
621	+23	3741	19	36.0	+23	38	9.5	✓	
622			19	38.0	+23	49		✓	hot in dm.
623	+23	3744	19	36.4	+23	27	9.5	✓	
624			19	37.6	+23	19		✓	hot in dm.
625			19	38.5	+23	25		✓	hot in dm.

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Mar. 20, 1930

MF 8162

F.C.

626	1	G <sub>0</sub>
627	3	A <sub>5</sub>
628	3	G <sub>0</sub>
629	3	F <sub>5</sub>
630	2	G <sub>0</sub>
631	2	A <sub>3</sub>
632	1	K <sub>0</sub>
633	1	F <sub>8</sub>
634	2	G <sub>0</sub>
635	1	K <sub>7</sub>
636	2	G <sub>5</sub>
637	2	K <sub>0</sub>
638	3	A
639	1	A <sub>2</sub>
640	1	F <sub>0</sub>
641	1	G <sub>5</sub>
642	3	A <sub>0</sub>
643	1	F <sub>8</sub>
644	3	G <sub>0</sub>
645	2	A <sub>0</sub>
646	2	A <sub>7</sub>
647	2	A <sub>0</sub>
648	2	F <sub>0</sub>
649	2	B <sub>8</sub>
650	1	A

I 26148

Apr. 4, 1930

626		19 <sup>h</sup>	38.8	+23	21	✓	hot in dm.
627	+23°	3748	37.5	+23°	16 <sup>1</sup>	9.5	✓
628	+22	3791	37.7	+22	34	9.5	✓
629		19	39.6	+23	32	✓	hot in dm.
630		19	40.0	+22	43	✓	hot in dm.
631		19	40.9	+22	9	✓	hot in dm.
632	+22	3799	39.4	+22	7	9.5	✓
633		19	41.3	+22	21	✓	hot in dm.
634		19	41.9	+22	3	✓	hot in dm.
635	+22	3804	40.1	+22	21	9.3	✓
636		19	42.0	+22	46	✓	hot in dm.
637	+22	3805	40.1	+22	31	9.3	✓
638		19	42.1	+22	34	✓	hot in dm.
639		19	42.2	+22	37	✓	hot in dm.
640		19	42.7	+22	30	✓	hot in dm.
641		19	44.1	+22	47	✓	hot in dm.
642	+22	3815	42.6	+22	34	9.5	✓
643		19	44.0	+22	7	✓	hot in dm.
644	+22	3811	41.7	+22	13	9.4	✓
645		19	43.3	+21	54	✓	hot in dm.
646		19	43.3	+21	47	✓	hot in dm.
647	+21	3907	40.6	+21	30	9.5	✓
648		19	43.4	+21	26	✓	hot in dm.
649		19	43.6	+21	23	✓	hot in dm.
650		19	43.6	+21	20	✓	hot in dm.

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Mar. 20, 1930

NF 8162

F.C.

651	3	B5
652	1	A2
653	2	A
654	1	K0
655	2	A2
656	2	A0
657	2	K0
658	1	A
659	1	F2
660	1	M0
661	2	A2
662	2	G5 <del>K7</del>
663	1	K0
664	3	F0
665	1	A
666	3	A3
667	2	A0
668	2	G0
669	4	F0
670	2	F2
671	5	A3
672	3	G0
673	4	A5
674	2	K0
675	3	A0

Orig. 662 consists of 3 stars.

I 26148

Apr. 4, 1930

651 +21°	3918	19	41.9	+21°	11'	9.5	✓
652		19	44.0	+21	16		hot in sm.
653 +20	4278	19	41.1	+20	56	9.5	✓
654 +21	3911	19	41.1	+21	0	9.4	✓
655		19	43.0	+21	3		hot in sm.
656		19	42.7	+20	58		hot in sm.
657 +20	4277	19	40.7	+20	45	9.4	hot in sm.
658		19	42.4	+20	25		hot in sm.
659 +20	4274	19	40.2	+20	12	9.5	✓
660 +20	4276	19	40.6	+20	2	9.5	hot in sm.
661 +20	4276	19	42.8	+20	10		Not in sm.
662 +20	4281	19	40.6	+20	2	9.5	✓
663 +19	4155	19	41.7	+20	8	9.5	✓
664		19	41.8	+19	56	9.5	✓
665		19	44.1	+19	54		hot in sm.
666 +19	4163	19	44.3	+20	5		hot in sm.
667		19	42.4	+19	48	9.3	✓
668		19	44.5	+19	49		hot in sm.
669 +20	4286	19	44.5	+20	5		hot in sm.
670 +20	4285	19	42.6	+20	3	9.1	✓
671 +20	4287	19	42.5	+20	10	9.4	✓
672 +20	4288	19	42.7	+20	4	8.5	✓
673 +20	4289	19	42.7	+20	16	9.5	✓
674 +20	4284	19	42.8	+20	27	9.3	✓
675 +20	4283	19	42.3	+20	27	9.3	✓
			42.3	+20	27	9.4	✓

9



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mF-8162

F. C.

676	1	F8
677	1	G0
678	3	A2
679	1	F8
680	2	G5
681	4	A0
682	1	F5
683	2	A0
684	1	A
685	4	F2
686	5	G5
687	2	K0
688	1	A
689	3	F2
690	3	G5
691	1	G0
692	3	A0
693	1	K7
694	1	G5
695	1	F
696	2	G0
697	1	K7
698	3	G0
699	4	A5
700	2	A2

I 26148

Apr. 4, 1930

676 +20°	4282	19	42.2	+20°	33'	9.5	✓
677		19	44.1	+21	2		✓ hot in dm.
678 +21	3925	19	42.4	+21	4	9.5	✓
679		19	44.7	+21	2		✓ hot in dm.
680 +20	4290	19	42.9	+20	40	9.4	✓
681 +20	4291	19	43.0	+20	48	9.3	✓
682		19	45.2	+20	53		✓ hot in dm.
683 +20	4292	19	43.2	+20	18	9.5	✓
684		19	45.2	+20	19		✓ hot in dm.
685 +20	4293	19	43.3	+20	17	9.3	✓
686 +20	4295	19	43.5	+20	15	9.0	✓
687 +20	4296	19	43.8 <sup>5</sup>	+20	20	9.3	✓
688		19	46.0	+20	43		✓ hot in dm.
689 +20	4298	19	43.9	+20	58	9.5	✓
690 +21	3939	19	44.2	+21	3	9.1	✓
691 +20	4294	19	43.4	+20	49	9.5	✓
692 +21	3934	19	43.6	+21	6	9.5	✓
693 +21	3932	19	43.0	+21	7	9.5	✓
694 +21	3927	19	42.5	+21	11	9.4	✓
695		19	44.7	+21	23		✓ hot in dm.
696		19	45.0	+21	36		✓ hot in dm.
697 +21	3935	19	43.7	+21	28	9.5	✓
698 +21	3936	19	43.8 <sup>7</sup>	+21	16	9.5	✓
699 +21	3937	19	43.9	+21	26	9.5	✓
700		19	46.0	+21	30		✓ hot in dm.



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Mar. 21, 1930

MF 8162

F.C.

701	6	F <sub>2</sub>
702	1	A <sub>3</sub>
703	5	F <sub>8</sub>
704	3	B <sub>8</sub>
705	3	B <sub>9</sub>
706	1	G <sub>0</sub>
707	3	F <sub>0</sub>
708	1	A
709	1	K
710	3	B <sub>8</sub> <sup>5</sup>
711	1	F <sub>8</sub>
712	1	G <sub>0</sub>
713	2	A <sub>3</sub>
714	2	B <sub>9</sub>
715	2	A <sub>7</sub>
716	5	B <sub>9</sub>
717	1	A <sub>5</sub>
718	1	K <sub>5</sub>
719	1	A <sub>0</sub>
720	1	A <sub>5</sub>
721	6	B <sub>9</sub>
722	4	G <sub>5</sub>
723	3	B <sub>8</sub>
724	1	G <sub>5</sub>
725	2	F <sub>5</sub>

I 22768

Mar. 27, 1930

701	+21°	3940	19	44.2	+21°	17'	8.7	✓
702			19	46.4	+21	22		Not in sm.
703	+20	4302	19	44.6	+20	57	9.2	✓
704	<del>+21</del>	<del>3945</del>	<del>19</del>	<del>46.9</del> <del>45.0</del>	<del>+21</del>	<del>12</del> <del>4</del>	<del>9.2</del> <del>9.5</del>	<del>Not in sm.</del>
705	+20	4303	19	45.0	+20	57	9.4	✓
706	<del>+21°</del>	<del>3945</del>	<del>19</del>	<del>45.0</del>	<del>+21</del>	<del>4</del>	<del>9.5</del>	<del>Not in sm.</del>
707			19	47.4	+20	52		Not in sm.
708			19	46.9	+20	36		Not in sm.
709			19	46.7	+20	50		Not in sm.
710	+20	4301	19	44.4	+20	12	9.5	✓
711	+20	4299	19	44.0	+20	14	9.5	✓
712	+20	4297	19	43.6	+20	6	9.5	✓
713	+19	4167	19	43.2	+19	54	9.5	✓
714			19	45.2	+19	47		Not in sm.
715			19	45.6	+19	39		Not in sm.
716	+19	4171	19	43.8	+19	35	9.5	✓
717	<del>+19</del>	<del>4170</del>	<del>19</del>	<del>45.8</del> <del>43.7</del>	<del>+19</del>	<del>48</del> <del>40</del>	<del>9.5</del>	<del>Not in sm.</del>
718			19	45.6	+19	58		Not in sm.
719			19	45.9	+20	1		Not in sm.
720			19	46.1	+20	5		Not in sm.
721	+19	4173	19	44.3	+19	58	8.9	✓
722	<del>+19</del>	<del>4176</del>	<del>19</del>	44.5	+20	0	8.8	✓
723	+20	4304	19	45.0	+20	4	9.5	✓
724	+19	4182	19	45.2	+19	52	9.5	✓
725			19	47.2	+20	3		Not in sm.

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MF 8162

F.C.

726	3	B9
727	2	F8
728	2	G0
729	1	A7
730	3	M0
731	2	K5
732	4	A3
733	3	A0
734	2	B9
735	1	F2
736	1	F5
737	1	K5
738	3	B8
739	3	B5
740	2	A0
741	1	K2
742	1	A0
743	2	K7
744	7	B5 <del>A0</del>
745	1	G
746	2	G0
747	2	A0
748	1	A
749	2	G5
750	1	G5

Perhaps Comp.

K line strong. See 8133

I 22768

Mar. 27, 1930

726	+20°	4305	19	45.5	+20°	10	9.5	✓
727	+20	4307	19	45.6	+20	4	9.5	✓
728	+20	4309	19	45.7	+20	12	9.5	✓
729			19	48.3	+20	19		hot in dm.
730	+20	4314	19	46.2	+20	23	9.2	✓
731	+20	4313	19	46.2	+20	32	9.3	✓
732	+20	4312	19	46.2	+20	42	9.2	✓
733	+20	4310	19	45.8	+20	48	9.4	✓
734	+20	4311	19	45.9	+20	54	9.5	✓
735	+20	4306	19	45.6	+20	53	9.5	✓
736			19	47.6	+21	13		hot in dm.
737			19	47.8	+21	29		hot in dm.
738	+21	3951	19	45.5	+21	22	9.3	✓
739	+21	3947	19	45.3	+21	24	9.4	✓
740			19	47.0	+21	29		hot in dm.
741	+21	3944	19	44.8	+21	19	9.4	✓
742			19	46.4	+21	42		hot in dm.
743			19	46.1	+21	43		hot in dm.
744	+21	3938	19	44.8	+21	42	8.4	✓
745			19	45.9	+21	54		hot in dm.
746			19	45.7	+21	50		hot in dm.
747			19	44.9	+22	6		hot in dm.
748			19	44.8	+22	3		hot in dm.
749			19	44.7	+22	3		hot in dm.
750			19	44.3	+22	11		hot in dm.

12



146

Mar. 21, 1930

NF 8162

F.C.

751	1	A
752	2	F8
753	1	F5
754	2	A0
755	1	F5
756	1	G0
757	1	F2
758	1	A
759	2	G0
760	2	F5
761	1	F
762	1	A
763	1	F8
764	3	G0
765	2	F8
766	3	A0
767	1	A
768	2	G0
769	1	G
770	1	G5
771	2	K0
772	2	F0
773	1	A3
774	2	G5
775	1	B8

fol. of two

I 22768

Mar. 27, 1930

751		19	43.9	+22	11		hot in sm.
752		19	45.7	+22	48		hot in sm.
753		19	45.3	+22	48		hot in sm.
754		19	45.3	+23	10		hot in sm.
755		19	45.2	+23	10		hot in sm.
756		19	44.9	+23	7		hot in sm.
757		19	44.5	+22	55		hot in sm.
758		19 <sub>h</sub>	44.5	+22	58		hot in sm.
759 +23°	3786	19	42.7	+23°	17	9.5	✓
760 +23	3785	19	42.6	+23	18	9.5	✓
761	very close	19	44.4	+23	19		hot in sm.
762		19	44.4	+23	19		hot in sm.
763 +23	3782	19	42.4	+23	16	9.5	✓
764 +23	3781	19	42.2	+23	18	9.5	✓
765		19	43.6	+23	22		hot in sm.
766		19	43.4	+23	46		hot in sm.
767		19	43.2	+23	23		hot in sm.
768		19	42.8	+23	21		hot in sm.
769		19	43.0	+23	36		hot in sm.
770 +23	3780	19	40.4	+23	21	9.5	✓
771		19	41.8	+23	38		hot in sm.
772 +23	3764	19	39.6 <sup>7</sup>	+23	18	9.5	✓
773		19	41.6	+22	56		hot in sm.
774		19	40.9	+22	44		hot in sm.
775		19	40.8	+23	16		hot in sm.

19



Mar. 21, 1930

mF 8162

F.C.

776	2	B5-8
777	1	B3
778	1	A
779	1	B8 F5
780	2	B8 F8
781	3	A0
782	3	G0
783	3	F5
784	2	A0
785	4	F2
786	4	A0
787	3	F2
788	2	A
789	2	A
790	2	G0
791	2	B
792	2	G0
793	3	K0
794	3	F5
795	2	B8
796	4	B8
797	1	A
798	4	F8
799	1	A
800	1	G5

(Classif. very diff. for B stars on this plate)

I 22768

Mar. 27, 1930

776			19	40.4	+23	28		Not in sm.
777			19	40.6	+23	36		Not in sm.
778			19	40.5	+23	39		Not in sm.
779			19	40.2	+23	38		Not in sm.
780			19	39.7	+23	49		Not in sm.
781	+23 <sup>0</sup>	3854	19	38.0	+23	50	9.5	✓
782	+23	3749	19	37.6	+23	57	9.5	✓
783	+24 <sup>3</sup>	3753	19	37.8	+23	58	9.5	✓
784	+24	3854	19	37.8	+24	6	9.5	✓
785	+24	3855	19	<del>38.0</del> 37.9	+24	12	9.5	✓
786	+24	3858	19	38.5	+24	12	9.3	✓
787	+24	3860	19	38.8	+24	8	9.5	✓
788			19	41.1	+24	1		Not in sm.
789			19	40.8	+23	44		Not in sm.
790			19	40.8	+23	50		Not in sm.
791	+23	3758	19	39.0	+23	38	9.5	✓
792	+23	3763	19	39.6	+23	58	9.3	✓
793	+24	3868	19	39.7	+24	1	9.4	✓
794			19	41.5	+24	12		Not in sm.
795	+24	3864	19	39.4	+24	11	9.5	✓
796	+24	3867	19	39.6	+24	19	9.0	✓
797	+24	3862	19	39.0	+24	19	9.5	✓
798	+24	3861	19	38.8	+24	29	9.4	✓
799			19	41.2	+24	41		Not in sm.
800			19	40.4	+24	41		Not in sm.

11



Mar. 21, 1930

NF 8162

F.C.

801	2	B5
802	2	F8
803	2	F5
804	3	K0
805	1	F8
805a	5	F8
806	2	F8
807	2	B9
808	2	G0
809	1	B8
810	1	F2
811	5	F0
812	1	G0
813	4	K2
814	4	G0
815	2	F8
816	1	F1
817	4	F5
818	2	A5
819	3	G5
820	1	G0
821	2	B9
822	3	A3
823	2	F5
824	5	F8
825	3	B5

I 26148

Apr. 4, 1930

801	+24 <sup>0</sup>	3837	19 <sup>h</sup>	34.6	+24 <sup>0</sup>	4 <sup>1</sup>	9.5	✓
802	+24	3840	19	34.9	+24	4	9.4	✓
803	+24	3839	19	34.9	+24	12	9.5	✓
804	+24	3842	19	35.4	+24	8	9.1	✓
805			19	37.4	+24	3		
L.H.D. (9) 805a	+23	3739	19	35.6	+23	45	9.6	not in sm.
806	+24	3843	19	35.8	+24	0	9.5	✓
807	+23	3742	19	36.2	+23	55	9.5	✓
808	+23	3743	19	36.2	+23	57	9.5	✓
809			19	38.5	+24	11		not in sm.
810			19	38.3	+24	19		not in sm.
811	+24	3847	19	36.4	+24	29	9.0	✓
812	+24	3846	19	36.2	+24	25	9.5	✓
813	+24	3844	19	36.0	+24	23	8.7	✓
814	+24	3845	19	36.1	+24	34	9.2	✓
815			19	37.7	+24	46		not in sm.
816			19	37.5	+24	30		not in sm.
817	+24	3841	19	35.2	+24	26	9.2	✓
818			19	36.6	+24	41		not in sm.
819	+24	3836	19	34.2	+24	27	9.2	✓
820			19	35.8	+24	35		not in sm.
821	+24	3830	19	33.7	+24	29	9.5	✓
822	+24	3833	19	33.9	+24	39	9.5	✓
823			19	36.0	+24	42		not in sm.
824	+24	3834	19	34.0	+24	46	9.0	✓
825	+24	3835	19	34.1	+24	56	9.2	✓

8



Mar. 21, 1930

nF 8162

F.C.

826	1	B8
827	5	F5
828	1	F2
829	2	F5
830	4	G5
831	3	A7
832	5	A0
833	2	F0
834	2	F5
835	4	G0
836	2	K0
837	1	F0
838	1	F2
839	4	A2
840	1	K7
841	1	A0
842	2	G0
843	4	A2
844	4	B8
845	2	G0
846	1	A
847	3	A5
848	3	B8
849	3	B9
850	3	A2

I 26148

April 4, 1930

826		19 <sub>h</sub>	36.2	+25	3	Not in sm.
827	+25 <sup>0</sup>	3915	19	34.3	+25	4' 8.9 ✓
828	+25	3910	19	33.6	+25	4 9.5 ✓
829	+25	3912	19	33.8	+25	5 9.3 ✓
830	+25	3913	19	33.8	+25	11 8.6 ✓
831	+25	3916	19	34.4	+25	16 9.5 ✓
832	+25	3918	19	34.5	+25	19 9.1 ✓
833	+25	3920	19	34.7	+25	3 9.5 ✓
834		19	36.6	+24	51	Not in sm.
835	+25	3922	19	34.7	+25	10 9.0 ✓
836	+25	3921	19	34.7	+25	16 9.2 ✓
837		19	37.0	+25	15	Not in sm.
838	+25	3923	19	34.8	+25	35 9.5 ✓
839	+25	3919	19	34.6	+25	44 9.2 ✓
840	+26	3639	19	34.8	+26	0 9.2 ✓
841		19	37.0	+26	2	Not in sm.
842	+25	3924	19	35.2	+25	55 9.5 ✓
843	+26	3644	19	35.4	+26	12 9.4 ✓
844	+26	3642	19	35.2	+26	19 9.5 ✓
845		19	37.6	+26	24	Not in sm.
846		19	37.5	+26	27	Not in sm.
847	+26	3643	19	35.4	+26	26 9.5 ✓
848	+26	3638	19	34.7	+26	27 9.5 ✓
849		19	36.5	+26	28	Not in sm.
850	+26	3635	19	34.5	+26	15 9.5 ✓



Mar. 21, 1930

MF 8162

F.C.

851	1	G <sub>0</sub>
852	3	A <sub>2</sub>
853	4	F <sub>2</sub>
853a	4	<del>A<sub>2</sub></del> A <sub>2</sub>
854	1	F <sub>2</sub>
855	1	F <sub>5</sub>
856	5	K <sub>9</sub>
857	1	F <sub>0</sub>
858	4	M <sub>0</sub>
859	1	G <sub>1</sub>
860	1	K <sub>5</sub>
861	4	K <sub>0</sub>
862	2	G <sub>5</sub>
863	2	K <sub>5</sub>
864	5	A <sub>0</sub>
865	4	F <sub>2</sub>
866	1	F <sub>8</sub>
867	1	K <sub>7</sub>
868	3	A <sub>5</sub>
869	1	F <sub>8</sub>
870	1	F <sub>5</sub>
871	1	F <sub>0</sub>
872	1	G <sub>1</sub>
873	3	F <sub>2</sub>
874	1	F <sub>8</sub>
875	2	F <sub>8</sub>
875a	1	F <sub>15</sub>

n. of two

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Apr. 4, 1930

851 +26°	3634	19	34.5	+26°	8'	9.5	✓
852		19	36.0	+26	22		✓ hot in sm.
853 +26	3628	19	33.6	+26	26	8.9	✓
853a +26	3630	19	33.7	+26	26	9.5	✓
854		19	35.9	+26	43		✓ hot in sm.
855		19	36.1	+26	38		✓ hot in sm.
856 +26	3636	19	34.6	+26	42	9.1	✓
857		19	37.8	+26	18		✓ hot in sm.
858 +26	3645	19	36.1	+26	18	9.0	✓
859		19	38.2	+26	13		✓ hot in sm.
860		19	38.2	+26	26		✓ hot in sm.
861 +26	3648	19	36.5	+26	10	9.4	✓
862		19	38.6	+26	18		✓ hot in sm.
863 +25	3926	19	36.1	+25	58	9.3	✓
864 +25	3928	19	36.5	+25	450	8.8	✓
865 +25	3925	19	36.1	+25	34	9.4	✓
866		19	37.5	+25	42		✓ hot in sm.
867 +25	3927	19	36.4	+25	30	9.5	✓
868 +25	3929	19	36.6	+25	29	9.4	✓
869		19	37.9	+25	1		✓ hot in sm.
870		19	38.2	+25	10		✓ hot in sm.
871		19	38.4	+24	48		✓ hot in sm.
872 +24	3848	19	36.8	+24	37	9.5	✓
873 +24	3850	19	37.3	+24	39	9.3	✓
874 +24	3851	19	37.5	+24	29	9.5	✓
875		19	39.5	+24	51		✓ hot in sm.
875a		19	39.5	+24	37		✓ hot in sm.

12



156

Mar 20, 1930

MF 8162

F.C.

876	2	A7
877	3	K0
878	5	A0
879	2	F8
880	1	K7
881	2	A
882	3	G
883	4	K0
884	3	A2
885	1	G
886	1	F0
887	2	F0
888	2	F8
889	1	A
890	3	A2
891	1	G
892	2	F5
893	3	F8
894	2	A
895	4	K2
896	1	F
897	3	G0
898	3	A3
899	5	B8
900	3	G5

~~doublet?~~ lines very wide. Only one standard chart plate  
Strong lines

I 26148

Apr. 4, 1930

876	+24°	3853	19 <sup>h</sup>	37.8 <sup>m</sup>	+24°	50'	9.5	✓
877	+24	3852	19	37.6	+24	56	9.5	✓
878	+25	3931	19	37.2	+25	22	9.1	✓
879	+25	3935	19	37.9	+25	18	9.5	✓
880	+25	3937	19	38.0	+25	22	9.5	✓
881			19	39.9	+25	30		Not in sm.
882	+25	3938	19	38.2	+25	22	9.4	✓
883	+25	3940	19	38.4	+25	37	8.7	✓
884	+25	3934	19	37.9	+25	35	9.4	✓
885			19	39.1	+25	48		Not in sm.
886			19	38.8	+25	54		Not in sm.
887	+25	3930	19	36.9	+25	54	9.5	✓
888	+26	3652	19	37.4	+26	5	9.5	✓
889			19	39.7	+25	57		Not in sm.
890	+25	3936	19	37.9	+25	51	9.5	✓
891			19	39.9	+26	3		Not in sm.
892	+25	3941	19	38.4	+25	53	9.5	✓
893	+26	3655	19	38.2	+26	25	9.5	✓
894			19	40.2	+26	37		Not in sm.
895	+26	3656	19	38.4	+26	40	9.2	✓
896			19	39.6	+26	46		Not in sm.
897			19	39.3	+26	47		Not in sm.
898			19	39.0	+26	25		Not in sm.
899	+26	3651	19	37.3	+26	41	9.2	✓
900			19	41.0	+26	35		Not in sm.



Mar. 24, 1930

MF 8162

F.C.

901	3	A2
902	6	B9
903	3	K0
904	1	K7
905	1	A
906	2	A0
907	3	G0
908	3	G5-
909	5	B8
910	4	F8
911	2	A3
912	2	G5-
913	1	A3
914	1	G5-
915	2	F8
916	4	A7
917	4	G5
918	3	A3
919	4	A2
920	4	F0
921	4	A0
922	4	G5
923	3	F8
924	1	F5
925	3	A0

MF 953

Apr. 5, 1930

901			19 <sub>h</sub>	41.3	+26	42		Not in sm.
902	+26°	3662	19	39.9	+26°	17'	8.9	✓
903	+26	3663	19	40.0	+26	13	9.3	✓
904			19	42.2	+26	35		Not in sm.
905			19	42.2	+26	20		Not in sm.
906			19	42.6	+26	32		Not in sm.
907	+26	3668	19	40.9	+26	30	9.4	✓
908	+26	3670	19	41.0	+26	32	9.3	✓
909	+26	3669	19	41.0	+26	21	9.0	✓
910	+26	3667	19	40.7	+26	10	9.4	✓
911			19	42.8	+26	15		Not in sm.
912	+25	3955	19	40.2	+25	48	9.4	✓
913	+25	3956	19	40.3	+25	47	9.5	✓
914	+25	3960	19	40.6	+25	53	9.5	✓
915	+25	3962	19	40.7	+25	52	9.4	✓
916	+25	3963	19	40.7	+25	48	9.2	✓
917	+25	3961	19	40.6	+25	43	8.9	✓
918	+25	3953	19	39.7	+25	35	9.4	✓
919	+25	3950	19	39.5	+25	41	9.2	✓
920	+25	3949	19	39.4	+25	34	9.2	✓
921	+25	3946	19	39.4	+25	24	8.9	✓
922	+25	3944	19	39.2	+25	34	8.7	✓
923	+25	3947	19	39.4	+25	38	9.0	✓
924			19	41.0	+25	41		Not in sm.
925	+25	3942	19	38.9	+25	38	9.4	✓



Mar. 24, 1930

MF 8162

F.C.

926	2	K <sub>0</sub>
927	1	F <sub>0</sub>
928	2	G <sub>0</sub>
929	3	A <sub>3</sub>
930	1	M <sub>0</sub>
931	2	K <sub>2</sub>
932	2	G <sub>0</sub>
933	2	G <sub>5</sub>
934	1	A
935	2	F <sub>2</sub>
936	5	A <sub>3</sub>
937	4	B <sub>9</sub>
938	2	B
939	2	B
940	2	K <sub>7</sub>
941	2	K <sub>0</sub>
942	4	A <sub>0</sub>
943	1	G
944	2	B <sub>2</sub>
945	3	A <sub>0</sub>
946	3	F <sub>2</sub>
947	2	F <sub>8</sub>
948	2	G <sub>0</sub>
949	1	F <sub>8</sub>
950	2	A <sub>0</sub>

No lines seen except ft. lines in violet  
 " " distinctly H $\gamma$  glow from

MF 953

April 5, 1930

926 +25°	3943	19 <sup>h</sup>	39.0	+25°	41	9.4	✓
927		19	41.0	+25	51		✓ not in sm.
928		19	40.5	+25	30		✓ not in sm.
929 +25	3939	19	38. <del>1</del> <sup>3</sup>	+25	6	9.3	✓
930 +24	3857	19	38.4	+24	55	9.5	✓
931 +24	3859	19	38.8	+24	48	9.5	✓
932		19	40.8	+24	53		✓ not in sm.
933		19	40.9	+25	1		✓ not in sm.
934		19	41.2	+25	8		✓ not in sm.
935 +25	3945	19	39.2	+25	7	9.5	✓
936 +25	3948	19	39.4	+25	10	9.1	✓
937 +24	3865	19	39.5	+24	51	9.5	
938 +25	3952	19	39.6	+25	1	9.4	✓
939 +24	3866	19	39.6	+24	46	9.4	✓
940 +24	3869	19	39. <del>8</del> <sup>7</sup>	+24	43	9.3	✓
941 +24	3870	19	39.9	+24	29	9.3	✓
942 +24	3871	19	40.1	+24	24	9.3	✓
943		19	42.0	+24	19		✓ not in sm.
944 +24	3873	19	40.3	+24	17	9.3	✓
945 +24	3875	19	40.4	+24	9	9.4	✓
946 +23	3768	19	40.3	+23	48	9.4	✓
947		19	42.2	+23	56		✓ not in sm.
948		19	42.5	+24	12		✓ not in sm.
949 +24	3878	19	40.8	+24	2	9.5	✓
950		19	43.1	+24	11		✓ not in sm.
							✓ 9



162

Mar. 24, 1930

mF 8162

F.C.

951	3	F5
952	4	B
953	3	B8
954	6	K0
955	1	A
956	2	A7
957	4	G5
958	2	F8
959	2	G0
960	6	A0
961	4	B9
962	1	G5
963	1	K2
964	3	A0
965	5	A0
966	2	F8
967	3	B9
968	1	K7
969	2	A0
970	2	A5
971	4	A2
972	5	B9
973	4	B5
974	3	F5
975	2	G0

MF 953

April 5, 1930

951	+24 <sup>0</sup>	3884	19	41.2	+24 <sup>0</sup>	16 <sup>1</sup>	9.5	✓
952	+24	3881	19	41.0	+24	30	9.0	✓
953	+24	3876	19	40.4	+24	41	9.4	✓
953 <sup>4</sup>	+24	3872	19	40.2	+24	49	8.3	✓
954 <sup>5</sup>			19	42.1	+25	7		not indm.
955 <sup>6</sup>	+25	3954	19	39.9	+25	24	9.5	✓
956 <sup>7</sup>	+25	3958	19	40.4	+25	31	8.9	✓
957 <sup>8</sup>	+25	3964	19	41.1	+25	42	9.5	✓
958 <sup>9</sup>	+25	3969	19	41.6	+25	41	9.5	✓
959 <sup>10</sup>	+25	3968	19	41.6	+25	56	8.4	✓
960 <sup>11</sup>	+25	3973	19	41.8	+25	28	9.4	✓
962 <sup>3</sup>	+25	3965	19	41.1	+25	12	9.5	✓
962 <sup>4</sup>	+25	3967	19	41.5	+25	10	9.5	✓
963 <sup>5</sup>	+25	3971	19	41.7	+25	7	9.4	✓
964 <sup>6</sup>	+24	3882	19	41.2	+24	38	9.0	✓
965 <sup>7</sup>	+24	3885	19	41.6	+24	13	9.5	✓
966 <sup>8</sup>	+24	3887	19	42.0	+24	22	9.4	✓
967 <sup>9</sup>	+24	3886	19	<del>42.0</del> <sup>41.9</sup>	+24	26	9.5	✓
968 <sup>10</sup>	+24	3888	19	42.1	+24	41	9.5	✓
969 <sup>11</sup>			19	44.0	+24	47		neither may be ident. as 124 <sup>0</sup>
970 <sup>12</sup>			19	44.2	+24	38		not indm.
972 <sup>3</sup>	+24	3891	19	42.4	+24	36	9.3	✓
972 <sup>4</sup>	+24	3893	19	42.7	+24	27	9.3	✓
973 <sup>5</sup>	+24	3890	19	42.3	+24	7	9.4	✓
974 <sup>6</sup>	+23	3974	19	41.4	+23	59	9.5	✓



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MF 8162

F.C.

976	2	A2
977	3	G5
978	2	G5
979	4	F2
980	1	G0
981	1	G5
982	1	A0
983	2	G0
984	3	A3
985	4	A0
986	5	K5
987	2	A2
988	1	B9
989	5	F2
990	2	F8
991	1	K5
992	2	A0
993	4	A0
994	2	A2
995	2	K0
996	2	M0
997	4	G5
998	4	A3
999	3	F0
999a		F0
1000	2	A0

mF 953

April 5, 1930

976 +23 <sup>0</sup>	3780	19 <sup>h</sup>	<del>42.2</del> <sup>1</sup>	+23 <sup>0</sup>	52'	9.5	✓
977 +23	3779	19	42.0	+23	38	9.5	✓
978 +23	3784	19	42.5	+23	34	9.5	✓
979 +23	3783	19	42.4	+23	45	9.3	✓
980		19	44.5	+23	44		✓ not in sm.
981 +23	3788	19	42.8	+23	44	9.4	✓
982 +23	3787	19	42.7	+23 <sup>3</sup>	55	9.5	✓
983 +24	3894	19	42.8	+24	0	9.3	✓
984 +23	3790	19	43.0	+23	50	9.5	✓
985 +23	3792	19	43.1	+23	41	9.5	✓
986 +24	3896	19	42.9	+24	21	8.8	✓
987 +24	3897	19	43.2	+24	11	9.5	✓
988		19	45.3	+24	13		✓ not in sm.
989 +24	3898	19	43.5	+24	9	9.0	✓
990		19	45.2	+24	43		✓ not in sm.
991 +24	3895	19	42.8	+24	30	9.5	✓
992 +25	3980	19	42.8	+25	8	9.5	✓
993 +25	3975	19	42.2	+25	13	9.5	✓
994		19	44.3	+25	22		✓ not in sm.
995 +25	3976	19	42.5	+25	23	9.4	✓
996 +25	3978	19	42.7	+25	27	9.1	✓
997 +25	3977	19	42.6 <sup>5</sup>	+25	35	9.1	✓
998 +25	3979	19	42.7	+25	36	9.4	✓
999 +25	3981	19	42.9	+25	28	9.3	✓
999a +25	3984	19	43.2	+25	19	9.4	✓
1000 +25	3982	19	43.0	+25	18	9.5	✓

4



MF 8162

F.C.

1001

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7F 8162

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MF 8162

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Mar. 25, 1930

F 8133

F.C.

1	5	F5
2	2	A0
3	2	M0
4	6	B8
5	4	F5
6	2	M0
7	4	G5
8	5	F8
9	5	A2
10	1	F2
11	5	K0
12	6	A2
13	3	A7
14	2	A2
15	1	A3
16	1	F8
17	1	A
18	6	K5
19	2	A3
20	3	A0
21	3	A2
22	4	B9
23	1	A
24	2	F5
25	3	F8

lines narrow

I 41355

Apr. 7, 1930

1	+17°	4159	19	50.4	+17°	27'	9.0	✓
2			19	52.5	+17	39		✓ hot in dm.
3	+17	4162	19	51.0	+17	24	9.3	✓
4	+17	4168	19	51.5	+17	29	9.1	✓
5	+17	4169	19	51.7	+17	33	9.3	✓
6			19	53.4	+17	48		✓ hot in dm.
7	+17	4161	19	51.0	+17	46	9.3	✓
8	+17	4164	19	51.1	+17	54	9.4	✓
9	+17	4167	19	51.4	+17	52	9.5	✓
10			19	53.5	+18	4		✓ hot in dm.
11	+18	4334	19	52.0	+18	2	8.6	✓
12	+18	4329	19	51.1	+18	11	9.1	✓
13	+18	4318	19	50.5	+18	16	9.5	✓
14			19	52.4	+18	18		✓ hot in dm.
15			19	52.6	+18	7		✓ hot in dm.
16			19	52.7	+18	7		✓ hot in dm.
17			19	52.9	+18	24		✓ hot in dm.
18	+18	4327	19	51.0	+18	23	8.7	✓
19	+18	4330	19	51.2	+18	15	9.5	✓
20	+18	4331	19	51.4	+18	26	9.5	✓
21	+18	4332	19	51.5	+18	30	9.5	✓
22	+18	4337	19	52.2	+18	20	9.4	✓
23			19	54.3	+18	24		✓ hot in dm.
24	+18	4338	19	52.2	+18	24	9.3	✓
25	+18	4339	19	52.2	+18	24	9.4	✓



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MF 8133

F.C.

26	4	F <sub>8</sub>
27	1	K <sub>2</sub>
28	2	A <sub>0</sub>
29	3	A <sub>2</sub>
30	3	G <sub>0</sub>
31	4	A <sub>0</sub>
32	2	A <sub>3</sub>
33	2	A <sub>0</sub>
34	3	A <sub>2</sub>
35	2	A <sub>0</sub>
36	3	G <sub>5</sub>
37	5	K <sub>0</sub>
38	5	F <sub>0</sub>
39	2	F <sub>8</sub>
40	3	M <sub>2</sub>
41	2	F <sub>5</sub>
42	4	A <sub>7</sub>
43	3	A <sub>3</sub>
44	3	G <sub>0</sub>
45	1	K <sub>9</sub>
46	2	K <sub>5</sub>
47	5	K <sub>5</sub>
48	4	A <sub>5</sub>
49	5	K <sub>9</sub>
50	6	K <sub>0</sub>

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26 +18°	4340	19	54.4	+18	31	9.0	
27 +17	4177	19	52.8 <sup>9</sup>	+17	57	9.5	✓
28		19	54.0	+17	32		✓ hot in dm.
29 +17	4172	19	52.3	+17	29	9.5	✓
30 +17	4173	19	52.4	+17	32	9.4	✓
31 +17	4174	19	52.6	+17	34	9.4	✓
32		19	54.8	+17	44		✓ hot in dm.
33		19	55.1	+17	48		✓ hot in dm.
34		19	55.5	+17	36		✓ hot in dm.
35		19	55.7	+17	45		✓ hot in dm.
36 +17	4189	19	53.9	+17	24	9.0	✓
37 +17	4190	19	54.0	+17	27	8.5	✓
38 +17	4191	19	54.4	+17	40	9.0	✓
39		19	56.3	+17	58		✓ hot in dm.
40 +17	4193	19	54.4 <sup>5</sup>	+17	59	8.8	✓
41 +18	4350	19	54.1	+18	5	9.5	✓
42 +18	4349	19	53.9	+18	4	9.2	✓
43 +18	4348	19	53.8 <sup>9</sup>	+18	2	9.5	✓
44 +18	4344	19	53.3	+18	17	9.5	✓
45		19	55.6	+18	32		✓ hot in dm.
46 +18	4345	19	53.6	+18	27	9.3	✓
47 +18	4346	19	53.7	+18	19	9.0	✓
48 +18	4353	19	54.2	+18	36	9.5	✓
49 +18	4352	19	54.1	+18	49	9.3	✓
50 +18	4351	19	54.1	+18	56	8.6	✓



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MF 8133

F.C.

51	5	K <sub>0</sub>
52	1	F <sub>5</sub>
53	1	a
54	1	B <sub>9</sub>
55	6	a <sub>2</sub>
56	1	K <sub>7</sub>
57	1	a
58	5	B <sub>5</sub>
59	3	a <sub>2</sub>
60	1	a
61	6	a <sub>2</sub>
62	5	a <sub>3</sub>
63	2	a <sub>7</sub>
64	3	a <sub>0</sub>
65	1	F <sub>8</sub>
66	2	a
67	3	a <sub>3</sub>
68	4	a <sub>0</sub>
69	4	B <sub>8</sub>
70	3	K <sub>2</sub>
71	1	K <sub>0</sub>
72	2	F <sub>8</sub>
73	2	K <sub>0</sub>
74	3	K <sub>5</sub>
75	3	B <sub>5</sub>

{ Different. Superficial

I 41355

Apr. 7, 1930

51	+18°	4347	19 <sup>h</sup>	53.8	+18°	56	8.8	✓
52			19	55.3	+18	49		✓ hot in dm.
53			19	55.2	+19	1		✓ hot in dm.
54			19	55.1	+19	3		✓ hot in dm.
55	+18	4343	19	53.0	+18	54	9.2	✓
56	+19	4233	19	53.0	+19	6	9.5	✓
57			19	54.5	18	55		✓ hot in dm.
58	+18	<sup>3</sup> 4233	19	51.9	+18	51	9.0	✓
59			19	53.5	+18	54		✓ hot in dm.
60			19	53.6	+18	44		✓ hot in dm.
61	+18	4328	19	51.0	+18	57	9.3	✓
62	+18	4326	19	51.0	+18	58	9.1	✓
63			19	52.8	+19	1		✓ hot in dm.
64			19	52.7	+18	53		✓ hot in dm.
65	+18	4324	19	50.9	+18	30	9.4	✓
66	+18	4325	19	50.9	+18	28	9.4	✓
67	+18	4322	19	50.9	+18	32	9.4	✓
68	+18	4323	19	50.9	+18	39	9.2	✓
69	+18	4321	19	50.6	+18	32	9.1	✓
70	+18	4319	19	50.5	+18	31	9.3	✓
71			19	52.6	+18	52		✓ hot in dm.
72			19	53.2	+19	10		✓ hot in dm.
73			19	53.4	+19	22		✓ hot in dm.
74			19	53.1	+19	42		✓ hot in dm.
75			19	53.8	+19	37		✓ hot in dm.

13



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MF 8133

F.C.

76	5	G <sub>0</sub>
77	6	F <sub>5</sub>
78	1	K <sub>0</sub>
79	3	B <sub>8</sub>
80	5	A <sub>2</sub>
81	2	G <sub>0</sub>
82	6	G <sub>0</sub>
83	2	B <sub>9</sub>
84	2	A <sub>0</sub>
85	2	B <sub>8</sub>
86	3	K <sub>2</sub>
87	2	K <sub>7</sub>
88	3	A <sub>2</sub>
89	2	A <sub>0</sub>
90	3	F <sub>2</sub>
91	3	K <sub>2</sub>
92	4	F <sub>5</sub>
93	3	A <sub>2</sub>
94	1	A <sub>3</sub>
95	3	A <sub>3</sub>
96	1	A <sub>0</sub>
97	4	A <sub>7</sub>
98	4	B <sub>8</sub>
99	6	G <sub>5</sub>
100	3	A <sub>0</sub>

I 41355

April 7, 1930

76	+19°	4224	19	<sup>m</sup> 51.6	+19°	48'	9.3	✓
77	+19	4225	19	51.7	+19	39	9.3	✓
78			19	53.8	+19	48		Not in dm.
79	+19	4227	19	51.8	+19	45	9.4	✓
80	+19	4228	19	51.8	+19	50	9.3	✓
81			19	54.1	+19	33		Not in dm.
82	+19	4230	19	52.4	+19	13	9.0	✓
83			19	54.8	+19	24		Not in dm.
84			19	54.4	+19	41		Not in dm.
85			19	54.5	+20	2		Not in dm.
86	+19	4231	19	52.6	+19	48'	9.3	✓
87			19	54.9	+19	48		Not in dm.
88	+19	4234	19	53.3	+19	23	9.5	✓
89			19	55.4	+19	19		Not in dm.
90			19	55.6	+19	32		Not in dm.
91	+19	4238	19	53.8	+19	14	9.2	✓
92	+19	4237	19	53.8	+19	20	9.2	✓
93			19	55.8	+19	38		Not in dm.
94			19	55.9	+19	40		Not in dm.
95			19	56.1	+19	43		Not in dm.
96			19	56.2	+19	30		Not in dm.
97	+19	4240	19	54.3	+19	27	9.5	✓
98			19	56.3	+19	13		Not in dm.
99	+19	4243	19	54.5	+19	8	8.8	✓
100	+19	4244	19	54.7	+19	13	9.5	✓



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MF 8133

F.C.

101	2	M <sub>0</sub>
102	1	K <sub>7</sub>
103	2	A <sub>0</sub>
104	2	F <sub>5</sub>
105	1	K <sub>7</sub>
106	3	K <sub>7</sub>
107	4	B <sub>8</sub>
108	3	A <sub>3</sub>
109	2	A <sub>5</sub>
110	3	A <sub>0</sub>
111	1	A <sub>0</sub>
112	1	K
113	2	F <sub>8</sub>
114	2	K <sub>7</sub>
115	3	M <sub>0</sub>
116	5	B <sub>5</sub>
117	2	A <sub>5</sub>
118	2	A <sub>0</sub>
119	4	B <sub>8</sub>
120	2	K <sub>0</sub>
121	5	A <sub>0</sub>
122	2	K <sub>5</sub>
123	1	A <sub>0</sub>
124	3	M <sub>3</sub>
125	2	A <sub>2</sub>

n. 7 2

I 29167

Apr. 11, 1930

101	+19°	4246	19 <sup>h</sup>	55.0	+19°	11'	9.3	✓
102			19	57.0	+19	20		✓ not in dm.
103			19	56.4	+18	55		✓ not in dm.
104			19	56.5	+18	46		✓ not in dm.
105			19	56.5	+18	53		✓ not in dm.
106	+18	4358	19	55.0	+18	34	9.5	✓
107	+18	4356	19	54.8	+18	17	9.5	✓
108			19	57.0	+18	27		✓ not in dm.
109			19	57.0	+18	27		✓ not in dm.
110	+18	4355	19	54.8	+18	4	9.5	✓
111			19	56.8	+18	16		✓ not in dm.
112			19	57.5	+18	16		✓ not in dm.
113			19	57.5	+18	6		✓ not in dm.
114	+17	4198	19	55.8	+17	57	9.5	✓
115	+18	4360	19	55.8	+18	10	9.1	✓
116	+17	4195	19	55.3	+17	42	9.0	✓
117			19	57.5	+17	40		✓ not in dm.
118			19	57.5	+17	51		✓ not in dm.
119			19	57.7	+17	50		✓ not in dm.
120	+17	4199	19	55.8	+17	40	9.5	✓ not in dm.
121	+17	4200	19	56.3	+17	32	9.1	✓
122			19	58.2	+17	55		✓ not in dm.
123			19	58.3	+17	44		✓ not in dm.
124	+17	4203	19	56.7	+17	27	9.1	✓
125			19	58.7	+17	43		✓ not in dm.

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MF 8133

F.C.

126	2	A
127	3	K5-
128	1	K0
129	1	A7
130	2	A5-
131	2	F5-
132	2	G0
133	2	K5-
134	1	G0
135	1	G5
136	2	A2
137	2	A0
138	1	A
139	2	A
140	1	G5
141	1	A
142	2	F8
143	5	K0
144	1	F5
145	1	A
146	2	B9
147	4	A0
148	2	A0
149	1	K0
150	2	F2

I 29167

Apr. 11, 1930

126		19	59.3	+17	34		Shot in dm.
127	+17°	4204	19 <sup>h</sup>	57.0	+17°	43'	9.3 ✓
128		19	59.4	+17	51		Shot in dm.
129		19	59.3	+18	15		Shot in dm.
130		19	58.9	+18	12		Shot in dm.
131	+18	4366	19	58.8	+18	21	
			56.8	+18	17	8.2	<del>Shot in dm.</del>
132		19	58.9	+18	32		Shot in dm.
133		19	59.2	+18	31		Shot in dm.
134	+18	4367	19	57.3	+18	20	9.5 ✓
135	+18	4369	19	57.5	+18	36	9.4 ✓
136		19	59.3	+18	45		Shot in dm.
137		19	59.2	+18	45		Shot in dm.
138		19	58.9	+18	39		Shot in dm.
139		19	58.8	+18	40		Shot in dm.
140		19	58.7	+18	34		Shot in dm.
141		19	58.7	+18	37		Shot in dm.
142		19	58.6	+18	42		Shot in dm.
143	+18	4364	19	56.3	+18	51	9.2 ✓
144		19	58.0	+18	49		Shot in dm.
145	+18	4363	19	56.1	+18	32	9.5 ✓
146		19	57.8	+18	31		Shot in dm.
147		19	57.8	+18	43		Shot in dm.
148		19	57.5	+18	51		Shot in dm.
149		19	57.4	+18	58		Shot in dm.
150		19	57.3	+19	5		Shot in dm.

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MF 8133

F. C.

151	5	F <sub>0</sub>
152	2	A <sub>5</sub>
153	2	G <sub>0</sub>
154	1	K <sub>0</sub>
155	5	G <sub>5</sub>
156	1	K <sub>0</sub>
157	3	F <sub>5</sub>
158	2	F <sub>0</sub>
159	2	A <sub>3</sub>
160	4	K <sub>0</sub>
161	5	K <sub>2</sub>
162	3	B <sub>8</sub>
163	2	F <sub>0</sub>
164	1	K <sub>7</sub>
165	4	G <sub>0</sub>
166	4	F <sub>5</sub>
167	6	A <sub>7</sub>
168	4	K <sub>0</sub>
169	2	A <sub>2</sub>
170	1	K <sub>2</sub>
171	4	B <sub>8</sub>
172	4	F <sub>5</sub>
173	6	A <sub>2</sub>
174	5	A <sub>2</sub>
175	2	K <sub>7</sub>

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151	+19°	4251	19 <sup>h</sup>	55.5 <sup>m</sup>	+19°	2'	9.3	✓	
152			19	57.7	+19	9			Shot in 2m.
153			19	57.9	+19	4			Shot in 2m.
154			19	58.0	+19	11			Shot in 2m.
155	+18	4362	19	56.1	+18'	59	9.1	✓	
156			19	58.2	+19	22			Shot in 2m.
157	+19	4255	19	56.0	+19	23	9.4	✓	
158			19	58.1	+19	35			Shot in 2m.
159			19	57.7	+19	28			Shot in 2m.
160	+19	4252	19	55.7	+19	28	9.5	✓	
161	+19	4249	19	55.2	+19	28	9.4	✓	
162			19	57.0	+19	30			Shot in 2m.
163	+19	4247	19	55.0	+19	33	9.5	✓	
164			19	57.0	+19	46			Shot in 2m.
165	+19	4248	19	55.2	+19	39	9.5	✓	
166	+19	4253	19	55.8	+19	44	9.5	✓	
167	+19	4258	19	56.2	+19	42	9.0	✓	
168	+19	4259	19	56.2	+19	37	9.0	✓	
169			19	58.3	+19	48			Shot in 2m.
170			19	58.5	+19	48			Shot in 2m.
171	+19	4262	19	56.8 <sup>7</sup>	+19	38	9.5	✓	
172	+19	4261	19	56.6	+19	46	9.3	✓	
173	+19	4260	19	56.6	+19	24	9.2	✓	
174	+19	4263	19	56.8	+19	25	9.5	✓	
175	+19	4264	19	57.0	+19	5	9.5	✓	



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mF 8133

F.C.

176	2	B9
177	2	A3
178	1	F8
179	1	G0
180	3	A0
181	4	F0
182	4	G0
183	3	K0
184	5	B5
185	3	F5
186	4	A0
187	3	G0
188	3	F0
189	5	K0
190	3	A7
191	4	F8
192	3	F0
193	5	B8
194	7	A2
195	1	F0
196	2	K0
197	1	K2
198	4	A0
199	2	G0
200	5	A5

Pencil &amp; S. of 2 stars

I 29167

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176			19	59.0	+19	18		Not in dm.
177			19	59.0	+19	2		Not in dm.
178			19	59.1	+19	16		Not in dm.
179			19	59.1	+19	31		Not in dm.
180			19	59.1	+19	29		Not in dm.
181	+19°	4267	19 <sup>h</sup>	59.3	+19°	24'	9.4	✓
182			19	59.3	+19	32		Not in dm.
183	+19	4269	19	59.3	+19	13	9.3	✓
184	+19	4271	19	59.6	+19	10	9.1	✓
185			19	59.8	+19	23		Not in dm.
186	+19	4273	19	58.0	+19	13	9.3	✓
187			19	59.4	+18	58		Not in dm.
188			19	59.5	+18	58		Not in dm.
189	+18	4370	19	59.6	+18	53	8.9	✓
190			19	59.8	+18	59		Not in dm.
191	+18	4371	19	59.9	+18	41	9.5	✓
192	+18	4373	19	<del>58.0</del> 57.9	+18	45	9.5	✓
193	+18	4374	19	58.0	+18	54	9.1	✓
194	+18	4375	19	58.2	+18	31	8.9	✓
195			19	59.7	+18	32		Not in dm.
196			20	0.3	+18	14		Not in dm.
197	+17	4208	19	58.2	+17	39	9.5	✓
198			19	59.9	+17	48		Not in dm.
199*	+17°	4209	19	58.2	+17	39	9.1	Not in dm.
200	+17	4211	19	58.3	+17	19	9.3	✓

\* Probably +17° 4209 if we assume a very slight error in the color star on plate is about 2" north of pos. given in dm.



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mF 8133

F.C.

201	4	F8
202	1	K0
203	5	A5
204	5	A5
205	2	F8
206	5	K0
207	1	K2
208	1	G0
209	5	K2
210	7	B3
211	2	G0
212	1	K0
213	2 1	F B8
214	3	A7
215	3	F8
216	3	A3
217	4	A3
218	3	A2
219	1	F5
220	3	G5
221	6	K0
222	5	K2
223	5	G5
224	2	F5
225	1	A

(orig. no. refers to 2 stars)

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201		20	0.8	+17	38		Not in Dm.
202		20 <sub>h</sub>	1.2	+17	45		Not in Dm.
203	+17°	4217	19	59.7	+17°	28 <sup>h</sup> 9.3	✓
204	+17	4214	19	58.7	+17	57 9.3	✓
205		20	0.7	+18	23		Not in Dm.
206	+18	4379	19	59.1	+18	13 8.8	✓
207	+18	4378	19	58.9	+18	1 9.5	✓
208		20 <sub>h</sub>	0.5	+18	34		Not in Dm.
209	+18	4376	19	58.7	+18	29 9.1	✓
210	+18	4377	19	58.8	+18	42 9.1	
211		20	0.5	+18	53		Not in Dm.
212		20	0.7	+18	56		Not in Dm.
213		20	1.2	+19	8		Not in Dm.
214		20	0.5	+19	8		Not in Dm.
215		20	0.6	+19	6		Not in Dm.
216		20	0.7	+19	14		Not in Dm.
217		20	0.8	+19	19		Not in Dm.
218		20	0.9	+19	13		Not in Dm.
219		20	1.0	+19	16		Not in Dm.
220	+19	4281	19	59.4	+19	2 9.5	✓
221	+18	4381	19	59.3	+18	52 8.7	✓
222	+18	4382	19	59.6	+18	52 9.0	✓
223	+18	4383	19	59.7	+18	42 8.9	✓
224		20	2.0	+18	52		Not in Dm.
225		20	1.8	+18	33		Not in Dm.



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MF 8133

F.c.

226	5	F <sub>0</sub>
227	1	K <sub>2</sub>
228	3	K <sub>0</sub>
229	6	A <sub>5</sub>
230	7	F <sub>5</sub>
231	2	A <sub>3</sub>
232	3	F <sub>0</sub>
233	3	F <sub>5</sub>
234	6	A <sub>0</sub>
235	2	F <sub>2</sub>
235a	4	K <sub>0</sub> G <sub>0</sub>
236	1	K <sub>0</sub>
236a	4	K <sub>2</sub> G
237	1	G
237a	7	A <sub>7</sub>
238	3	F <sub>0</sub> A <sub>7</sub>
238a	3	F <sub>0</sub>
239	4	F <sub>8</sub>
239a	2	A <sub>3</sub>
240	5	A <sub>0</sub>
240a	1	G <sub>0</sub>
241	1	F <sub>5</sub>
242	1	K <sub>5</sub>
243	2	F <sub>8</sub>
244	4	G <sub>0</sub>
245	2	K <sub>7</sub>
246	1	A <sub>7</sub>
247	2	K <sub>5</sub>
248	2	M <sub>0</sub>
249	3	K <sub>2</sub>
250	2	

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226	+18°	4384	20 <sup>h</sup> 19	0.4	+18°	7	9.1	✓
227	+17	4218	19 <del>20</del>	0.0	+17	56	9.5	✓
228			20	2.5	+18	29 <del>28</del>		Not in dm.
229	+17	4221	20	0.3	+17		9.3	✓
230	+17	4224	20	0.4	+17	31	9.0	✓
231			20	2.6	+17	48		Not in dm.
232			20	2.7	+17	51		Not in dm.
233			20	2.8	+17	56		Not in dm.
234	+17	4226	20	1.0	+17	36	9.3	✓
235			20	3.4	+17	48		Not in dm.
235a	+18	4389	20	1.3	+18	44	9.3	✓
236			20	3.0	+18	5		Not in dm.
236a	+18	4390	20	1.4	+18	52	9.0	✓
237			20	2.9	+18	13		Not in dm.
237a	+18	4387	20	1.2	+18	54	9.0	✓
238			20	3.2	+18	18		Not in dm.
238a	+18	4385	20	1.1	+18	56	9.5	✓
239	+18	4386	20	1.2	+18	14	9.3	✓
239a			20	2.8	+19	5		Not in dm.
240			20	2.9	+18	36		Not in dm.
240a			20	2.6	+19	2		Not in dm.
241			20	2.9	+18	42		Not in dm.
242			20	2.8	+18	42		Not in dm.
243			20	3.1	+18	34		Not in dm.
244	+18	4388	20	1.2	+18	34	9.3	✓
245			20	2.0	+19	11		Not in dm.
246			20	1.8	+19	15		Not in dm.
247			20	1.8	+19	10		Not in dm.
248			20	1.7	+19	9		Not in dm.
249	+19	4286	19	59.8	+19	19	9.1	✓
250			20	1.9	+19	29		Not in dm.



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F.C.

251	2	G <sub>0</sub>
252	1	G
253	3	A <sub>0</sub>
254	2	F <sub>0</sub>
255	1	F <sub>8</sub>
256	3	B <sub>5</sub>
257	2	B <sub>9</sub>
258	2	A <sub>7</sub>
259	5	A <sub>0</sub>
260	5	B <sub>8</sub>
261	3	F <sub>2</sub>
262	5	B <sub>5</sub>
263	1	F <sub>2</sub>
264	5	K <sub>2</sub>
265	2	G <sub>0</sub>
266	4	F <sub>5</sub>
267	2	F <sub>8</sub>
268	3	K <sub>5</sub>
269	1	K <sub>0</sub>
270	1	A <sub>2</sub>
271	1	A <sub>5</sub>
272	2	F <sub>2</sub>
273	1	G <sub>5</sub>
274	4	K <sub>5</sub>
275	1	F <sub>5</sub>

Hertzsprung 2 stars

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251		20	2.5	+19	32	Shot in Dm.
252		20	2.6	+19	30	Shot in Dm.
253		20	2.6	+19	18	Shot in Dm.
254		20	3.3	+19	18	Shot in Dm.
255		20 <sub>h</sub>	3.7	+19	16	Shot in Dm.
256	+19°	4293 20	1.7	+19°	4' 9.5	✓
257		20	3.9	+19	30	Shot in Dm.
258		20	3.8	+19	44	Shot in Dm.
259	+19	4296 20	2.0	+19	41 9.5	✓
260	+19	4297 20	2.2	+19	23 9.5	✓
261		20	4.5	+19	10	Shot in Dm.
262	+18	4396 20	2.0	+18	52 9.4	✓
263	+18	4397 20	2.4	+18	47 9.5	✓
264	+18	4398 20	2.7 <sup>5</sup>	+18	39 8.8	✓
265		20	4.5	+18	38	Shot in Dm.
266	+18	4400 20	2.6	+18	36 9.1	✓
267	+18	4401 20	2.7	+18	18 9.4	✓
268	+18	4399 20	2.6	+18	10 9.1	✓
269		20	3.6	+18	20	Shot in Dm.
270		20	4.1	+18	23	Shot in Dm.
271		20	4.0	+18	24	Shot in Dm.
272		20	3.9	+18	10	Shot in Dm.
273		20	3.6	+18	3	Shot in Dm.
274	+17	4230 20	2.1	+17	54 9.0	✓
275		20	3.8	+17	52	Shot in Dm.

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MF 8133

F.c.

276	2	K <sub>0</sub>
277	4	A <sub>2</sub>
278	4	F <sub>5</sub>
279	4	F <sub>8</sub>
280	1	A <sub>3</sub>
281	1	F <sub>5</sub>
282	5	A <sub>2</sub>
283	1	G <sub>5</sub>
284	4	K <sub>0</sub>
285	1	K <sub>2</sub>
286	1	K <sub>5</sub>
287	1	A <sub>2</sub>
288	2	F <sub>2</sub>
289	1	K <sub>7</sub>
290	2	A <sub>3</sub>
291	4	A <sub>2</sub>
292	5	B <sub>8</sub>
293	2	F <sub>5</sub>
294	5	F <sub>2</sub>
295	2	K <sub>0</sub>
296	6	B <sub>8</sub>
297	1	K <sub>7</sub>
298	1	A <sub>5</sub>
299	5	A <sub>2</sub>
300	3	G <sub>5</sub>

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276	+17°	4229	20 <sup>h</sup>	1.8	+17°	38'	9.5	✓	
277			20	4.2	+17	46			Not in Dm.
278	+17	4232	20	2.4	+17	40	9.4	✓	
279	+17	4234	20	2.8	+17	56	9.0	✓	
280			20	4.4	+17	59			Not in Dm.
281			20	4.7	+17	41			Not in Dm.
282	+17	4239	20	3.7	+17	28'	9.4	✓	
283			20	5.7	+17	32			Not in Dm.
284	+17	4238	20	3.7	+17	37	9.1	✓	
285	+18	4403	20 19	2.9	+18	1	9.5	✓	
286			20	5.4	+18	10			Not in Dm.
287			20	5.6	+18	24			Not in Dm.
288			20	6.0	+18	9			Not in Dm.
289	+18	4406	20	3.2	+18	35	9.4	✓	
290			20	5.3	+18	41			Not in Dm.
291	+18	4409	20	3.7	+18	20	9.5	✓	
292	+18	4411	20	3.9	+18	32	9.3	✓	
293			20	6.1	+18	46			Not in Dm.
294	+18	4412	20	4.4	+18	29	9.3	✓	
295	+18	4413	20	4.4	+18	36	9.2	✓	
296	+18	4415	20	4.6	+18	35	9.0	✓	
297			20	6.3	+18	27			Not in Dm.
298	+18	4414	20 20	6.3 4.4	+18 +18	20			Not in Dm.
299	+18	4414	20	4.4	+18	9	9.2	✓	
300	+18	4416	20	4.6	+18	6	9.4	✓	



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mF 8133

F.c.

301	1	A5
302	2	A0
303	3	B9
304	3	K2
305	1	K5
306	3	G5
307	2	K2
308	3	F2
309	6	F2
310	5	G5
311	4	F8
312	1	K5
313	2	K7
314	3	A5
315	4	F8
316	2	G0
317	2	K7
318	3	F0
319	1	F5
320	2	G0
321	8	A3
322	6	A0
323	4	G5
324	2	F0
325	2	K5

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301		20	6.8	+17	58		Not in dm.
302		20	6.7	+17	41		Not in dm.
303		20	6.5	+17	37		Not in dm.
304		20	6.3	+17	30		Not in dm.
305		20	6.2	+17	28		Not in dm.
306	+17°	4246	20 <sup>h</sup>	5.2 <sup>m</sup>	+17°	52	9.1 ✓
307	+17	4247	20	5.3	+17	52	9.2 ✓
308		20	7.5	+18	1		Not in dm.
309	+17	4248	20	5.8	+17	55	8.8 ✓
310	+18	4423	20	5.3 <sup>+</sup>	+18	3	9.0 ✓
311	+18	4421	20	5.2	+18	3	9.1 ✓
312	+18	4419	20	5.0	+18	22	9.5 ✓
313	+18	4424	20	5.7	+18	26	9.3 ✓
314		20	8.1	+18	27		Not in dm.
315	+18	4425	20	6.2	+18	16	9.4 ✓
316		20	8.3	+18	30		Not in dm.
317		20	7.5	+18	52		Not in dm.
318		20	7.5	+19	3		Not in dm.
319		20	7.0	+19	13		Not in dm.
320		20	7.1	+19	21		Not in dm.
321	+19	4311	20 <sup>3</sup>	5.2 <sup>3</sup>	+19	18	8.8 ✓
322	+19	4314	20	5.6	+19	20	9.3 ✓
323	+19	4316	20	5.6	+19	26	9.1 ✓
324	+19	4313	20	5.5	+19	34	9.5 ✓
325	+19	4317	20	5.6	+19	37	9.4 ✓



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F.C.

326	6	K <sub>2</sub>
327	4	F <sub>0</sub>
328	2	K <sub>0</sub>
329	1	K <sub>5</sub>
330	2	F <sub>8</sub>
331	4	A <sub>2</sub>
332	2	F <sub>5</sub>
333	2	A
334	2	G <sub>5</sub>
335	4	A <sub>2</sub>
336	3	F <sub>2</sub>
337	3	A <sub>3</sub>
338	2	G <sub>5</sub>
339	1	G <sub>5</sub>
340	3	F <sub>8</sub>
341	1	G
342	1	G <sub>5</sub>
343	2	F <sub>5</sub>
344	1	K <sub>0</sub>
345	2	K <sub>5</sub>
346	7	A <sub>0</sub>
347	2	K <sub>0</sub>
348	6	A <sub>3</sub>
349	1	G
350	2	A

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326 +19°	4319	20 <sup>h</sup>	6.0 <sup>m</sup>	+19°	39'	8.9	✓
327 +19	4321	20	6.4	+19	40	9.5	✓
328		20	8.4	+19	42		Not in dm.
329		20	8.4	+19	33		Not in dm.
330		20	7.7	+19	19		Not in dm.
331 +19°	4320	20	6.2	+19	2	9.3	✓
332		20	8.4	+18	51		Not in dm.
333 +18	4428	20	6.9	+18	49	9.5	Not in dm.
334 +18	4426	20	6.6	+18	19	9.5	✓
335 +18	4427	20	6.8	+18	11	9.5	✓
336		20	8.9	+18	5		Not in dm.
337 +17	4253	20	6.8	+17	54	9.4	✓
338		20	8.6	+18	1		Not in dm.
339		20	8.5	+17	57		Not in dm.
340 +17	4250	20	6.2	+17	40	9.5	✓
341		20	7.7	+17	49		Not in dm.
342		20	7.3	+17	46		Not in dm.
343		20	7.4	+17	41		Not in dm.
344		20	7.5	+17	38		Not in dm.
345 +17	4249	20	6.0	+17	23	9.5	✓
346 +17	4252	20	6.7	+17	26	9.0	✓
347		20	9.0	+17	28		Not in dm.
348 +17	4255	20	6.9	+17	36	9.1	✓
349		20	9.4	+17	31		Not in dm.
350		20	9.5	+17	43		Not in dm.

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mF 8133

F.C.

351	1	a
352	1	K7
353	1	K0
354	3	F5
355	4	a0
356	1	K0
357	1	G5
358	1	F5
359	3	F0
360	3	a7
361	1	K7
362	2	K5
363	1	K7
364	3	B8
365	1	a
366	3	K5
367	2	G0
368	1	G
369	2	K5
370	3	a3
371	2	K7
372	1	F5
373	4	F2
374	3	G0
375	2	a
375a	1	a

{ Superfaint

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351		20	9.9	+17	51	Not in dm.
352 +17	4268	20	8.0	+17	44 <sup>1</sup> / <sub>2</sub>	9.5 ✓
353 +17	4265	20	8.0	+17	36	9.5 ✓
354 +17	4263	20	8.0	+17	19	9.5 ✓
355		20	10.3	+17	26	Not in dm.
356		20	10.3	+18	9	Not in dm.
357		20	10.1	+18	11	Not in dm.
358		20	9.9	+18	15	Not in dm.
359		20	9.7	+18	11	Not in dm.
360		20	9.4	+18	25	Not in dm.
361		20	9.6	+18	25	Not in dm.
362		20	10.0	+18	24	Not in dm.
363		20	9.0	+18	30	Not in dm.
364 +18	4430	20	7.4	+18	38	9.4 ✓
365		20	9.3	+18	57	Not in dm.
366 +18	4429	20	7.2	+18	58	9.5 ✓
367 +19	4328	20	7.3	+19	2	9.5 ✓
368		20	9.3	+19	1	Not in dm.
369 +18	4432	20	7.6 <sup>7</sup>	+18	49	9.5 ✓
370		20	9.7	+19	3	Not in dm.
371 +19	4333	20	7.9	+19	2	9.5 ✓
372		20	9.8	+18	48	Not in dm.
373 +18	4433	20	8.1	+18	43	9.0 ✓
374 +18	4434	20	8.4	+18	43	9.4 ✓
375 +18	4435	20	8.5	+18	58	9.4 ✓
375a		20	10.5	+19	6	Neither may be ident. as +18° 4435



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MF 8133

F.C.

376	1	K5
377	4	F2
378	7	G0
379	6	G5
380	4	B8
381	3	A0
382	3	K5
383	6	F5
384	3	A0
385	1	K7
386	1	F8
387	2	F5
388	3	G0
389	1	G5
390	3	K2
391	4	B5
392	1	F8
393	4	F8
394	1	A0
395	6	A0
396	3	G0
397	1	F8
398	6	G5
399	4	K0
400	2	G0

MF 955

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376		20	10.7	+19	12	Not in Sm.
377	+19	4337	8.7	+19	4	9.2 ✓
378	+19	4339	8.8	+19	12	8.6 ✓
379	+19	4340	8.8 <sup>9</sup>	+19	13	9.0 ✓
380	+19	4335	8.5	+19	17	9.5 ✓
381		20	10.6	+19	32	Not in Sm.
382	+19	4336	8.6	+19	31	9.1 ✓
383	+19	4332	7.7	+19	13	9.1 ✓
384	+19	4331	7.7	+19	33	9.5 ✓
385		20	9.6	+19	34	Not in Sm.
386	+19	4330	7.5	+19	21	9.5 ✓
387		20	9.4	+19	35	Not in Sm.
388	+19	4326	7.1	+19	19	9.3 ✓
389		20	8.9	+19	14	Not in Sm.
390	+19	4325	6.9	+19	12	9.0 ✓
391	+19	4323	6.7	+19	14	9.5 ✓
392		20	8.8	+19	37	Not in Sm.
393	+19	4324	6.9	+19	20	9.2 ✓
394		20	9.1	+18	50	Not in Sm.
395	+19	4327	7.2	+19	54	8.8 ✓
396	+19	4329	7.3	+19	55	9.1 ✓
397		20	9.5	+20	5	Not in Sm.
398	+20	4488	8.1	+20	13	8.7 ✓
399	+20	4493	8.5	+20	7	9.0 ✓
400	+19	4338	8.8	+19	57	9.5 ✓



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MF 8133

F.C.

401	3	A2
402	4	A5
403	1	F8
404	1	A2
405	4	A3
406	5	K0
407	6	B8
408	4	K0
409	5	F2
410	3	A5
411	1	G5
412	5	F2
413	3	M2
414	4	A2
415	1	G5
416	1	F8
417	1	K0
418	3	F5
419	1	K7
420	1	K0
421	6	A2
422	2	A0
423	1	G
424	2	G5
425	1	F8

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401		20	11.2	+19	50		Not in dm.
402		20	11.2	+19	45		Not in dm.
403		20	11.4	+20	8		Not in dm.
404		20	11.7	+20	15		Not in dm.
405		20 <sup>h</sup>	11.8	+19	55		Not in dm.
406	+19 <sup>o</sup>	4347	20	10.0	+19 <sup>o</sup>	52	9.4 ✓
407	+19	4348	20	10.2	+19	39	9.4 ✓
408	+19	4349	20	10.3	+19	35	9.4 ✓
409		20	11.9	+19	34		Not in dm.
410	+19	4343	20	9.7	+19	20	9.3 ✓
411		20	11.4	+19	26		Not in dm.
412	+19	4341	20	9.2	+19	17	9.3 ✓
413	+19	4344	20	9.7	+19	11	9.1 ✓
414		20	11.2	+19	13		Not in dm.
415		20	11.7	+19	14		Not in dm.
416		20	12.0	+19	12		Not in dm.
417	+19	4346	20	10.0	+19	10	9.5 ✓
x 418	+19	4350	20	10.4	+19	3	9.5 ✓
419		20	11.8	+18	55		Not in dm.
420		20	11.7	+18	48		Not in dm.
421	+18	4439	20	9.5	+18	38	9.1 ✓
422	+18	4440	20	9.5	+18	24	9.4 ✓
423		20	11.6	+18	33		Not in dm.
424		20	12.4	+18	45		Not in dm.
425		20	12.4	+18	44		Not in dm.

\* Assuming an error of about 2' in dec, The star on plate is about 2' south of pos given in catalogue.



Mar. 27, <sup>1930</sup>~~1922~~

MF 8133

F.C.

426	2	A <sub>2</sub>
427	3	F <sub>0</sub>
428	7	A <sub>0</sub>
429	5	A <sub>0</sub>
430	1	K <sub>0</sub>
431	1	K <sub>0</sub>
432	5	K <sub>0</sub>
433	3	G <sub>5</sub>
434	3	F <sub>0</sub>
435	3	A <sub>3</sub>
436	1	K <sub>0</sub>
437	2	K <sub>2</sub>
438	3	A <sub>0</sub>
439	3	K <sub>0</sub>
440	1	A <sub>5</sub>
441	2	F <sub>0</sub>
442	2	K <sub>5</sub>
443	7	K <sub>0</sub>
444	2	F <sub>0</sub>
445	2	A <sub>0</sub>
446	2	F <sub>0</sub>
447	3	A <sub>0</sub>
448	2	K <sub>2</sub>
449	3	A <sub>0</sub>
450	2	A <sub>0</sub>

M. J. J<sub>2</sub>

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426		20 <sub>h</sub>	12.3	+18	29		Not in dm.
427 +18°	4442	20	10.5	+18°	16	9.1	✓
428 +18	4443	20	10.5	+18	16	9.0	✓
429 +18	4445	20	10.8	+18	8	9.4	✓
430 +18	4449	20	11.3	+18	4	9.5	✓
431		20	12.3	+18	10		Not in dm.
432 +17	4273	20	10.0	+17	52	9.1	✓
433		20	11.9	+18	5		Not in dm.
434		20	11.9	+18	16		Not in dm.
435		20	11.7	+18	5		Not in dm.
436		20	11.5	+18	15		Not in dm.
437		20	11.3	+18	15		Not in dm.
438		20	11.1	+17	52		Not in dm.
439 +17	4267	20	8.9	+17	38	9.3	✓
440		20	10.6	+17	29		Not in dm.
441		20	11.1	+17	32		Not in dm.
442		20	11.7	+17	23		Not in dm.
443 +17	4271	20	9.8	+17	20	8.7	✓
444 +17	4274	20	10.1	+17	32	9.5	✓
445		20	12.4	+17	54		Not in dm.
446		20	12.5	+17	52		Not in dm.
447		20	12.5	+17	54		Not in dm.
448		20	12.9	+17	56		Not in dm.
449 +17	4279	20	11.0	+17	22	9.5	✓
450 +17	4281	20	11.4	+17	22	9.5	✓

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MF 8133

F.C.

451	2	K7
452	5	K5
453	7	A2
454	3	A0
455	1	K7
456	1	K2
457	5	F2
458	2	A0
459	5	F0
460	3	F5
461	1	K5
462	6	F5
463	1	G0
464	7	K0
465	1	G
466	3	M0
467	6	F2
468	7	F5
469	6	K0
470	1	F5
471	5	G5
472	3	M0
473	1	K7
474	4	F8
475	7	F8

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451	+17	4283	20 <sup>h</sup>	11.8	+17	39	9.0	✓
452	+17	4287	20	12.1	+17	37	8.8	✓
453	+17	4286	20	12.2	+17	54	8.9	✓
454			20	14.3	+18	8		Not in 2m.
455	+18	4453	20	12.1	+18	6	9.1	✓
456			20	13.5	+18	7		Not in 2m.
457			20	14.0	+18	43		Not in 2m.
458			20	13.6	+18	54		Not in 2m.
459	+18	4450	20	11.8	+18	54	9.3	✓
460	+18	4451	20	11.8	+18	54	9.4	✓
461	+18	4452	20	11.8	+18	49	9.4	✓
462	+18	4448	20	11.3	+18	59	9.1	✓
463			20	13.1	+19	2		Not in 2m.
464	+18	4446	20	11.1	+18	58	8.5	✓
465	+19	4352	20	11.2	+19	4	9.4	✓
466	+19	4353	20	11.1	+19	12	9.0	✓
467	+19	4354	20	11.2	+19	25	9.1	✓
468	+19	4356	20	11.4	+19	42	8.8	✓
469	+19	4351	20	10.9	+19	46	8.5	✓
470			20	12.6	+19	57		Not in 2m.
471	+20	4505	20	11.0	+20	10	9.5	✓
472	+20	4510	20	11.6	+20	8	8.8	✓
473			20	13.6	+19	53		Not in 2m.
474	+19	4360	20	11.9	+19	50	9.5	✓
475	+19	4359	20	11.8	+19	33	9.1	✓



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F.C.

476	2	As
477	4	F <sub>2</sub>
478	4	G <sub>5</sub>
479	1	G <sub>0</sub>
480	2	G <sub>5</sub>
481	2	A
482	3	A <sub>5</sub>
483	3	G <sub>0</sub>
484	3	G <sub>0</sub>
485	1	F <sub>5</sub>
486	1	A <sub>3</sub>
487	6	G <sub>0</sub>
488	1	F <sub>0</sub>
489	1	F <sub>5</sub>
490	6	F <sub>2</sub>
491	1	A <sub>0</sub>
492	3	G <sub>5</sub>
493	1	G
494	1	K <sub>2</sub>
495	2	K <sub>7</sub>
496	3	A <sub>0</sub>
497	3	K <sub>2</sub>
498	4	A <sub>0</sub>
499	2	A <sub>7</sub>
500	3	A <sub>2</sub>

pre. of two  
+ much

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476		20 <sup>h</sup>	13.6	+19	36		Not in dm.
477	+19 <sup>o</sup>	4362	20	12.3	+19 <sup>o</sup>	34	9.0 ✓
478	+19	4361	20	12.2	+19	21	9.3 ✓
479		20	14.0	+19	30		Not in dm.
480	+19	4358	20	11.7	+19	16	9.4 ✓
481		20	14.2	+19	14		Not in dm.
482		20	14.4	+19	17		Not in dm.
483	+19	4363	20	12.8	+19	12	9.5 ✓
484		20	14.6	+18	58		Not in dm.
485		20	14.8	+18	54		Not in dm.
486		20	14.5	+18	55		Not in dm.
487	+18	4456	20	13.0	+18	50	9.2 ✓
488		20	14.2	+18	45		Not in dm.
489		20	14.5	+18	27		Not in dm.
490	+18	4460	20	13.5	+18	21	9.0 ✓
491	+18	<del>4458</del>	<del>20</del>	<del>13.4</del>	<del>+18</del>	<del>15</del>	<del>9.5</del> Not in dm.
492	+18	4457	20	13.3	+18	3	9.3 ✓
493		20	15.4	+18	12		Not in dm.
494	+18	4462	20	13.7	+18	4	9.5 ✓
495	+18	<del>4463</del>	<del>20</del>	<del>13.7</del>	<del>+18</del>	<del>14</del>	<del>9.5</del> Not
496		20	15.9	+18	14		Not in dm.
497	+17	4292	20	13.4	+17	41	9.3 ✓
498	+18	4465	20	14.0	+18	39	9.5 ✓
499		20	15.4	+18	45		Not in dm.
500		20	15.5	+18	55		Not in dm.



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NF 8133

F.C.

501	4	K <sub>0</sub>
502	6	K <sub>0</sub>
503	3	A <sub>0</sub>
504	1	K <sub>2</sub>
505	3	F <sub>8</sub>
506	1	A <sub>0</sub>
507	2	K <sub>0</sub>
508	4	K <sub>2</sub>
509	1	F <sub>8</sub>
510	1	K <sub>2</sub>
511	7	G <sub>0</sub>
512	1	K <sub>0</sub>
513	3	M <sub>0</sub>
514	5	G <sub>0</sub>
515	3	F <sub>8</sub>
516	7	A <sub>3</sub>
517	6	A <sub>5</sub>
518	6	A <sub>3</sub>
519	7	A <sub>2</sub>
520	1	K <sub>2</sub>
521	2	K <sub>7</sub>
522	5	A <sub>0</sub>
523	2	K <sub>0</sub>
524	4	F <sub>8</sub>
525	5	K <sub>0</sub>

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501	+18 <sup>0</sup>	4461	20 <sup>h</sup>	13.6	+18 <sup>6</sup>	54'	9.2	✓
502	+18	4459	20	13.4	+18	57	8.8	✓
503	+19	4368	20	13.3	+19	4	9.5	✓
504	+19	4365	20	13.1	+19	6	9.4	✓
505	+19	4367	20	13.3	+19	12	9.5	✓
506			20	15.3	+19	14		✓ hot in sm.
507	+19	4366	20	13.2	+19	24	9.5	✓
508	+19	4364	20	13.0	+19	31	9.3	✓
509			20	15.0	+19	42		✓ hot in sm.
510			20	14.8	+19	34		✓ hot in sm.
511	+19	4369	20	13.4	+19 <sup>20</sup>	0	9.1	✓
512			20	15.8	+20	1		✓ hot in sm.
513	+19	4370	20	13.7	+19	28	8.9	✓
514	+19	4371	20	13.8	+19	21	9.0	✓
515			20	15.9	+19	32		✓ hot in sm.
516	+19	4373	20	13.8	+19	33	9.0	✓
517	+19	4374	20	14.0	+19	33	9.3	✓
518	+19	4375	20	14.4	+19	22	9.4	✓
519	+19	4376	20	14.4	+19	28	9.2	✓
520			20	16.8	+19	29		✓ hot in sm.
521	+18	4469	20	14.9	+18	47	9.3	✓
522	+18	4467	20	14.8	+18	35	9.1	✓
523			20	17.1	+19	38		✓ hot in sm.
524	+19	4379	20	15.0	+19	33	9.0	✓
525	+19	4377	20	15.0	+19	38	9.0	✓



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F.C.

526	1	K <sub>0</sub>
527	3	F <sub>5</sub>
528	3	M <sub>0</sub>
529	4	K <sub>5</sub>
530	3	F <sub>0</sub>
531	1	K <sub>2</sub>
532	2	F <sub>8</sub>
533	3	A <sub>3</sub>
534	2	M <sub>1</sub>
535	1	F <sub>5</sub>
536	1	G <sub>0</sub>
537	2	B <sub>9</sub>
538	1	A <sub>2</sub>
539	1	G <sub>5</sub>
540	3	K <sub>5</sub>
541	5	F <sub>8</sub>
542	4	B <sub>5</sub>
543	1	K <sub>7</sub>
544	3	F <sub>0</sub>
545	1	G
546	3	F <sub>8</sub>
547	4	K <sub>0</sub>
548	3	F <sub>5</sub>
549	5	G <sub>0</sub>
550	4	G <sub>5</sub>

4215 Phing.

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526		20	17.1	+19	56		✓	Not in Dm.
527	+20°	4527	20 <sup>h</sup>	14.2	+20°	5	9.4	✓
528		20	15.7	+20	23			✓
529	+20	4525	20	13.6	+20	23	9.2	✓
530		20	15.3	+20	31			✓
531	+20	4523	20	13.5	+20	34	9.4	✓
532		20	16.0	+20	36			✓
533		20	16.2	+20	48			✓
534	+20	4528	20	14.4	+20	46	9.3	✓
535	+20	4529	20	14.8	+20	46	9.5	✓
536	+20	4530	20	14.8	+20	43	9.4	✓
537		20	16.8	+20	47			✓
538	+20	4531	20	16.9	+20	41		✓
538	<del>+20</del>	<del>4531</del>	<del>20</del>	<del>14.9</del>	<del>+20</del>	<del>30</del>	<del>9.5</del>	<del>Not in Dm.</del>
539		20	16.7	+20	43			✓
540	+20	4532	20	14.9	+20	56	9.5	✓
541	+21	4165	20	14.4	+21	6	9.0	✓
542	+21	4166	20	14.4	+21	20	9.5	✓
543	+21	4169	20	14.8	+21	21	9.5	✓
544		20	17.4	+21	50			✓
545		20	17.3	+21	48			✓
546		20	17.2	+21	46			✓
547	+21°	4171	20	15.1	+21	50	9.4	
548	+21	4170	20	14.9	+21	57	9.5	✓
549	+21	4168	20	14.7	+21	45	9.0	✓
550	+22	4029	20	15.2	+22	3	9.1	✓



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F.c.

551	3	G <sub>0</sub>
552	2	B <sub>9</sub>
553	4	F <sub>0</sub>
554	1	A <sub>2</sub>
555	5	A <sub>5</sub>
556	6	F <sub>2</sub>
557	4	G <sub>5</sub>
558	1	G <sub>0</sub>
559	1	F <sub>2</sub>
560	4	B <sub>8</sub>
561	6	B <sub>9</sub>
562	5	K <sub>0</sub>
563	2	A <sub>7</sub>
564	1	B <sub>9</sub>
565	1	K <sub>7</sub>
566	2	F <sub>8</sub>
567	8	G <sub>0</sub>
568	2	K <sub>0</sub>
569	3	K <sub>0</sub>
570	6	A <sub>0</sub>
571	2	K <sub>2</sub>
572	6	K <sub>0</sub>
573	5	F <sub>0</sub>
574	1	G <sub>0</sub>
575	2	F <sub>0</sub>

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551	+21	4174	20 <sup>h</sup>	15.6	+21 <sup>o</sup>	59'	9.4	✓
552			20	17.6	+22	3		not in sm.
553	+22	4022	20	14.5	+22	3	9.3	✓
554	+21	4171	20	16.1	+22	4		
				15.1	+21	50	9.4	not in sm.
555	+21	4162	20	13.7	+21	28	9.2	✓
556	+21	4158	20	13.3	+21	28	9.1	✓
557	+21	4156	20	13.2	+21	26	9.1	✓
558			20	15.0	+21	35		not in sm.
559			20	15.1	+21	30		not in sm.
560			20	15.2	+21	23		not in sm.
561	+21	4160	20	13.4	+21	3	9.3	✓
562	+21	4159	20	13.4	+21	11	9.0	✓
563			20	15.2	+21	7		not in sm.
564			20	15.7	+21	8		not in sm.
565	+20	4526	20	14.1	+20	53	9.5	✓
566	+21	4153	20	14.1	+21	10	9.5	✓
567	+20	4522	20	13.4	+20	48	8.5	✓
568	+20	4521	20	13.1	+20	50	9.4	✓
569	+20	4518	20	12.9	+20	55	9.4	✓
570	+20	4519	20	12.6	+20	40	9.0	✓
571	+20	4513	20	12.4	+20	30	9.5	✓
572	+20	4515	20	12.6	+20	25	8.7	✓
573	+20	4520	20	12.9	+20	22	9.5	✓
574			20	14.8	+20	30		not in sm.
575	+20	4516	20	12.6	+20	10	9.5	✓



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F.C.

576	2	A <sub>0</sub>
577	3	K <sub>0</sub>
578	1	F <sub>2</sub>
579	1	F <sub>0</sub>
580	1	G <sub>5</sub>
581	1	G <sub>0</sub>
582	3	B <sub>8</sub>
583	1	K <sub>7</sub>
584	4	B <sub>9</sub>
585	3	G <sub>0</sub>
586	1	K <sub>5</sub>
587	2	G <sub>5</sub>
588	2	G <sub>0</sub>
589	1	G <sub>5</sub>
590	3	F <sub>0</sub>
591	1	F <sub>8</sub>
592	7	F <sub>0</sub>
593	3	F <sub>2</sub>
594	2	F <sub>0</sub>
595	2	A <sub>3</sub>
596	3	A <sub>0</sub>
597	5	A <sub>3</sub>
598	2	A <sub>0</sub>
599	5	B <sub>8</sub>
600	7	F <sub>2</sub>

Cont. in Bk. 183, 2

MF 955

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576		20 <sub>h</sub>	14.3	+20	9		hot in sm.
577	+20	4512	20	12.4	+20	11'	9.4 ✓
578		20	14.4	+20	19		hot in sm.
579		20	14.2	+20	19		hot in sm.
580		20	14.0	+20	26		hot in sm.
581	+20	4511	20	12.0	+20	1	9.5 ✓
582		20	13.6	+20	35		hot in sm.
583	+20	4507	20	11.3	+20	24	9.5 ✓
584	+20	4506	20	11.2	+20	29	9.5 ✓
585		20	13.1	+20	42		hot in sm.
586		20	14.1	+20	50		hot in sm.
587		20	14.2	+20	56		hot in sm.
588		20	14.5	+21	4		hot in sm.
589		20	14.4	+21	7		hot in sm.
590		20	14.6	+21	12		hot in sm.
591		20	14.4	+21	11		hot in sm.
592	+21	4149	20	12.4	+21	14	8.9 ✓
593	+21	4148	20	12.3	+21	22	9.5 ✓
594	+21	4146	20	12.0	+21	10	9.5 ✓
595		20	13.9	+21	24		hot in sm.
596		20	13.7	+21	15		hot in sm.
597	+20	4509	20	11.5	+20	52	9.4 ✓
598		20	13.0	+20	54		hot in sm.
599	+20	4502	20	10.8 <sup>7</sup>	+20	58	9.4 ✓
600	+20	4501	20	10.8 <sup>2</sup>	+20	48	8.8 ✓

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1930phae.proj.2264C