

Globular Clusters Photographed with the 72-inch reflector at the Dominion Astrophysical Observatory* (1931-1934) and the 74-inch reflector at the David Dunlap Observatory (1935-1971)

NGC 2419 2	NGC 6284 ... 25	NGC 6638 ... 45
NGC 4147 3	NGC 6287 ... 26	NGC 6642 ... 46
NGC 5024 4	NGC 6325 ... 27	NGC 6656 ... 47
NGC 5053 5	NGC 6333 ... 28	NGC 6712 ... 48
NGC 5272 6	NGC 6341 ... 29	NGC 6717 ... 50
NGC 5466 7	NGC 6342 ... 30	NGC 6760 ... 51
NGC 5634 8	NGC 6356 ... 31	NGC 6779 ... 52
Pal 5 9	NGC 6366 ... 32	NGC 6838 ... 54
NGC 5897 ... 10	NGC 6401 ... 34	NGC 6864 ... 57
NGC 5904 ... 11	NGC 6402 ... 35	NGC 6934 ... 58
NGC 6093 ... 14	NGC 6426 ... 38	NGC 6981 ... 60
NGC 6171 ... 15	NGC 6517 ... 39	NGC 7006 ... 61
NGC 6205 ... 16	NGC 6535 ... 40	NGC 7078 ... 62
NGC 6218 ... 19	NGC 6539 ... 41	NGC 7089 ... 64
NGC 6229 ... 21	NGC 6544 ... 42	NGC 7099 ... 67
NGC 6235 ... 22	IC 1276 ... 43	Pal 13 ... 68
NGC 6254 ... 23	NGC 6626 ... 44	NGC 7492 ... 69

For each observation, the following information is listed: plate number, date, Eastern Standard Time (EST) of the beginning and end of the exposure, and Julian date at the time of mid-exposure. Note: EST + 5 hours = GMT.

*The plates that were obtained with the 72-inch reflector have all been returned to the Dominion Astrophysical Observatory.

07^h 35.^m5 +38° 59'

NGC 2419

20102 1931
Oct. 14

242+
6629.028

12^h 08^m.1 +18° 46'

	1946				243+
12106	June 4	21 40	21 46	1976.613	
12130	" 5	21 14	21 20	77.595	
	1947				
13317	May 20	21 00	21 10	2326.587	
13329	" 22	21 16	21 20	28.596	
13330	" 22	21 22	21 38	.601	
	1949				
16011	May 31	21 31	21 43	3068.609	
16039	June 1	21 30	21 38	69.607	
16169	" 27	21 34	21 42	95.610	
16198	" 28	21 43	21 51	96.616	
	1953				
20070	June 9	21 30	21 40	4538.608	
20074	" 9	22 12	22 20	.638	
20090	" 10	21 30	21 40	39.608	
20094	" 10	22 14	22 24	.638	
20111	" 11	21 45	21 57	40.619	

$13^{\text{h}} 11.0^{\text{m}} +18^{\circ} 23'$

	1936				242+
827	May 20	21 47	22 07	8309.623	
	1947			243+	
13328	May 22	21 07	21 12	2328.590	
	1949				
16010	May 31	21 24	21 27	3068.601	
16038	June 1	21 25	21 27	69.601	
16045	" 1	22 55	22 57	.664	
16168	" 27	21 29	21 30	95.604	
16197	" 28	21 37	21 39	96.610	
	1956				
23204	July 3	21 29	21 35	5658.605	
23216	" 6	21 29	21 37	61.606	

13^h 14.^m4 +17° 54'

	1938				242		1946				
3285	June 26	21 28	21 48	9076.610	12057	May 29	21 46	21 56	1970.619		
3298	" 27	21 37	22 07	77.620	12060	" "	22 46	22 56	.660		
3312	" 28	21 34	22 04	78.618	12061	" "	22 58	23 08	.669		
3327	" 29	21 50	22 25	79.631	12064	" 29	23 57	24 09	.710		
	1940				12066	" 30	00 19	00 29	.725		
5696	June 4-5	22 03	22 38	9785.639	12105	June 4	21 27	21 37	76.607		
5707	" 5-6	21 43	22 08	86.625	12108	" 4	22 02	22 10	.629		
5710	" "	22 56	23 21	.672	12112	" 4	22 56	23 06	.667		
5721	" 6-7	21 42	22 07	87.621	12114	" 4	23 36	23 46	.695		
	1941			243+	12131	" 5	21 23	21 33	77.603		
6833	June 23	21 40	22 10	0169.622	12134	" 5	22 22	22 30	.643		
6844	" 24	21 53	22 23	70.631	12139	" 5	23 31	23 41	.692		
	1942				12322	Jul. 2	22 18	22 30	2004.642		
7854	June 8	22 09	22 33	0519.640	12324	" 2	22 39	22 51	.656		
7856	" "	23 04	23 26	.677	12341	" 3	22 39	22 51	05.657		
7869	" 9	22 18	22 42	20.642	12342	" 3	22 51	23 05	.665		
7871	" "	23 05	23 29	.678	12360	" 4	21 54	22 04	06.624		
7988	Jul. 14	21 42	21 56	55.617	12363	" 4	22 40	22 50	.656		
7990	" 14	22 15	22 29	0555.640					244+		
8007	" 15	21 35	21 45	56.611	32121	1969 May 12	22 47	22 57	0354.661		
8010	" 15	22 10	22 20	.635	32127	" 13	00 41	00 51	.740		
	1943				32130	" 14	21 45	21 53	56.617		
8803	June 4	21 34	21 44	0880.610	32133	" 14	22 35	22 43	.652		
8806	" 4	22 13	22 25	.638	32135	" 14	23 14	23 22	.679		
8809	" 4	23 08	23 18	.676	32139	" 15	01 00	01 08	.753		
8812	" 4-5	23 52	00 02	.706	32142	" 15	02 09	02 31	.802		
8815	" 5	00 46	01 00	.745	32145	" 15	22 05	22 13	57.631		
8829	" 7	21 37	21 51	83.612	32198	June 16	21 54	22 04	89.624		
8832	" 7	22 26	22 38	.647	32202	" 16	22 55	23 05	.667		
8838	" 8	22 11	22 23	84.637	32205	" 17	00 04	00 14	.715		
8841	" 8	22 52	23 02	.665	32222	" 20	21 38	21 46	93.613		
8844	" 8	23 38	23 50	.697	32226	" 20	22 48	22 56	.661		
8848	" 9	00 35	00 49	.738	32229	" 20-21	23 59	00 08	.710		
8889	June 23	21 48	21 58	99.620		1970					
8898	June 23-4	23 49	00 01	0899.705	33200	June 3	22 00	22 10	0741.629		
8914	" 24	21 43	21 53	900.617	33201	" 3	22 51	23 01	.664		
8924	" 25	00 11	00 23	.720	33216	" 4	22 16	22 26	42.640		
	1944				33330	" 29	21 42	21 47	67.614		
10100	June 15	22 43	23 13	1257.665	33331	" 29	22 21	22 31	.643		
10106	" 16	22 03	22 19	58.633	33333	" 29	23 15	23 24	.680		
10109	" 16	22 54	23 08	.667	33338	" 30	21 42	21 52	68.616		
10114	" 17	00 12	00 26	.722	33342	30-Jul 1	23 56	00 06	.709		
10122	" 17	21 31	21 41	59.608	33354	Jul. 2	22 13	22 23	70.638		
10127	" 17	22 24	22 36	.646							
10131	" 17	23 30	23 42	.692							
	1946										
12034	May 28	22 02	22 12	1969.630							
12035	" 28	22 13	22 22	.638							
12037	" 28	23 14	23 24	.680							
12038	" 28	23 25	23 35	.688							
12040	" 28	23 56	00 04	.708							
12041	" 29	00 05	00 15	.715							
12056	" 29	21 34	21 44	1970.610							

	1936				242+
825	Jul. 20	21 00	21 10	8309.587	
	1937				
1974	June 3	21 18	21 28	8688.599	
1989	" 4	21 53	22 03	89.617	
2003	" 7	21 20	21 30	92.601	
2028	" 11	21 46	21 51	96.617	
	1938				
3260	June 22	23 46	23 51	9072.699	
	1946			243+	
12038	May 28	21 53	21 57	1969.622	
12055	" 29	21 23	21 26	70.600	
12104	June 4	21 20	21 23	76.598	
12129	" 5	21 04	21 07	77.587	
12277	" 28	22 25	22 23	2000.645	
12356	Jul. 4	21 09	21 12	06.590	
	1947				
13316	May 20	20 25	20 53	326.577	
13327	" 22	21 00	21 03	28.584	
	1949				
16009	May 31	21 17	21 20	3068.596	
16037	June 1	21 20	21 22	3069.598	
	1953				
20069	June 9	21 22	21 25	4538.600	
20089	" 10	21 22	21 25	39.600	
20109	" 11	21 21	21 25	40.599	
	1966				
29090	May 19	21 28	21 30	9265.603	
29147	" 25	21 26	21 28	71.602	

1940				242+	1944				243+		
5697	June	4	22 50	23 20	9785.670	10101	June	15	23 18	23 48	1257.690
5709	"	5-6	22 27	22 52	86.653	10107	"	16	22 22	22 38	58.646
5806	Jul.	2	21 58	22 23	813.632	10110	"	16	23 11	23 23	.678
5818	"	3	21 55	22 20	14.631	10115	"	17	00 30	00 42	.732
5833	"	4	21 51	22 16	15.628	10123	"	17	21 46	21 56	59.619
1941				243+	10128	"	17	22 40	22 50		.656
6845	June	24	22 29	22 59	0170.656	10132	"	17	23 46	23 56	.702
6856	"	25	21 52	22 22	71.630	10137	"	17	01 23	01 39	.772
6873	"	26-7	23 33	00 03	72.700						
1942					12039	1946	May	28	23 41	23 51	1969.699
7853	June	8	21 38	22 02	0519.618	12044	"	29	00 39	00 49	.739
7857	"	8	23 33	23 53	.697	12065	"	30	00 06	00 16	70.716
7858	"	8-9	23 57	00 17	.713	12072	"	30	02 04	02 14	.798
7859	"	9	00 18	00 38	.728	12107	June	4	21 49	21 59	1976.621
7868	"	9	21 36	22 00	20.617	12115	"	4	23 49	23 57	.703
7872	"	9-10	23 48	00 18	.710						
7936	Jul.	9	21 50	22 04	0550.623	29089	May	19	21 15	21 23	9265.596
7953	"	12	21 36	21 48	53.612	29150	"	25	21 54	22 04	71.624
7958	"	12	23 05	23 17	.674	29154	"	25	23 15	23 25	.681
7973	"	13	22 15	22 27	54.640						
7978	"	14	00 10	00 24	.720						
7987	"	14	21 25	21 37	55.608						
7991	"	14	22 33	22 45	.652						
7995	"	15	00 10	00 24	.720						
8006	"	15	21 22	21 32	56.602						
8009	"	15	21 57	22 07	.626						
8011	"	15	22 24	22 34	.645						
8016	"	15	23 46	23 56	.702						
8017	"	15-6	23 57	00 07	.710						
1943					0880.599						
8802	June	4	21 17	21 29	0880.599						
8805	"	4	21 58	22 08	.627						
8808	June	4	22 53	23 03	0880.665						
8811	"	4	23 35	23 46	.694						
8814	"	5	00 28	00 40	.732						
8828	"	7	21 17	21 27	83.599						
8831	"	7	22 09	22 21	.635						
8834	"	7	23 00	23 14	.672						
8837	"	8	21 55	22 05	84.625						
8840	"	8	22 36	22 46	.653						
8843	"	8	23 21	23 33	.685						
8847	"	9	00 19	00 31	.726						
8852	"	9	01 30	01 42	.775						
8854	"	9	02 05	02 19	.800						
8888	"	23	21 33	21 43	99.610						
8890	"	23	22 02	22 12	.630						
8899	"	24	00 05	00 15	.715						
8903	"	24	01 11	01 23	.762						
8913	June	24	21 29	21 39	0900.608						
8915	"	24	21 55	22 03	.624						
8923	"	24-5	23 57	00 07	.710						
8937	"	25	22 29	22 59	01.656						
9026	Jul.	27	22 19	22 29	33.642						
9031	"	27	23 35	23 45	.694						

	1946				243+		1962			243+
12036	May 28	22 27	22 47	1969.651	26201	Jul. 3	21 42	21 52	849.616	
12062	" 29	23 12	23 32	70.682		1963				
12067	" 30	00 34	00 54	.739	26825	June 17	21 47	22 01	8198.621	
12113	June 4	23 13	23 31	76.682	26826	" 17	22 03	22 17	.632	
12133	" 5	22 03	22 19	77.633	26846	" 18	22 07	22 19	99.634	
12137	" 5	23 04	23 20	.675		1966				
	1947				29093	May 19	22 20	22 30	9265.642	
13342	May 23	00 57	01 11	2328.753	29096	" 19	22 53	23 05	.666	
13399	June 17	23 11	23 23	54.678	29153	" 25	22 39	22 49	71.656	
13423	" 18	23 08	23 21	55.676	29157	" 25	23 50	24 00	.705	
	1948					1968			244+	
14509	June 30	22 02	22 16	2733.631	31228	June 19	21 34	21 44	0027.610	
14533	Jul. 1	21 59	22 11	34.628	31232	" 19	22 30	22 44	.651	
	1949				31233	" 19	22 47	23 01	.662	
16015	May 31	22 32	22 46	3068.652	31251	" 20	21 31	21 43	28.609	
16022	June 1	00 21	00 35	.728	31258	" 20	23 08	23 20	.676	
16044	" 1	21 44	21 56	69.618		1969				
16044	" 1	22 39	22 51	3069.656	32134	May 14	22 50	23 04	356.665	
16174	" 27	22 31	22 43	95.651	32136	" 14	23 29	23 43	.692	
	1950				32197	June 16	21 31	21 43	89.609	
17474	Jul. 14	21 40	21 54	477.616	32199	" 16	22 15	22 27	.640	
	1952				32221	" 20	21 21	21 30	93.601	
19165	June 17	21 33	21 47	4181.611	32223	" 20	21 53	22 05	.624	
19187	" 18	21 35	21 49	82.612		1970				
19192	" 19	21 34	21 48	83.612	33202	June 3	23 22	23 36	0741.687	
	1953				33332	" 29	22 51	23 08	67.665	
20071	June 9	21 45	21 59	538.619						
20074	" 9	22 28	22 42	.649						
20091	" 10	21 47	22 01	39.621						
20094	" 10	22 36	22 50	.655						
20112	" 11	22 02	22 16	40.631						
20228	Jul. 13	21 32	21 52	72.612						
	1955									
22337	June 14	21 40	21 54	73.616						
22341	" 14	22 41	22 55	.658						
22344	" 14	23 49	00 03	.706						
22357	" 15	21 36	21 50	5274.613						
22361	" 15	22 30	22 44	.651						
22364	" 15-16	23 46	00 00	.703						
22374	" 16	21 40	21 56	75.616						
22381	" 16-17	23 59	00 13	.712						
22471	Jul. 18	21 27	21 47	307.609						
22492	" 19	thrown away by mistake								
22515	" 20	21 27	21 45	09.608						
22539	" 21	21 25	21 41	10.606						
	1956									
23217	Jul. 6	21 44	22 04	661.621						
23294	" 30	21 12	21 24	85.596						
	1957									
23929	June 25	21 55	22 09	6015.625						
	1959									
24783	Jul. 2	21 35	21 49	6752.612						
24806	" 3	21 40	21 54	53.619						
	1960									
25183	June 27	21 38	21 52	7113.615						

15^h 14.0^m +00° 03'

Pal 5

19146	1952					243+
19166	June	16	21 46	21 58	4180.619	
19188	"	17	21 53	22 17	81.628	
19193	"	18	22 02	22 18	82.632	
	"	19	21 52	22 32	83.633	

1936					242+	1943					243+				
819	May	20	00	28	00	35	8308.731	8822	June	5	02	22	02	26	.808
828	"	20	22	25	22	35	09.646	8827	"	7	21	06	21	08	83.588
829	"	20	22	39	22	49	.656	8830	"	7	21	58	22	01	.625
830	"	20	22	52	23	02	.665	8833	"	7	22	48	22	51	.659
831	"	20	23	04	23	12	.672	8836	"	8	21	47	21	50	84.617
838	"	21	01	54	02	04	.791	8839	"	8	22	29	22	32	.646
1107	Jul.	15	21	27	21	37	65.606	8842	"	8	23	11	23	14	.675
1122	"	16	21	29	21	36	66.606	8846	"	9	00	10	00	13	.716
1285	Aug.	18	21	14	21	24	99.597	8851	"	9	01	21	01	24	.766
1937								8887	"	23	21	20	21	23	99.598
1976	June	3	22	09	22	19	8688.635	8891	"	23	22	22	22	26	.643
1990	"	4	22	10	22	20	89.635	8897	"	23	23	42	23	46	.697
2005	"	7	21	58	22	08	92.627	8912	"	24	21	22	21	25	0900.600
2012	"	9	00	19	00	29	93.725	8916	"	24	22	12	22	14	.634
2029	"	11	21	57	22	07	96.626	8922	"	24	23	51	23	53	.703
2108	"	30	22	12	22	17	8715.635	8935	"	25	22	03	22	07	0901.628
1938								8938	"	25	23	04	23	10	.672
3246	June	21	22	41	22	49	9071.656	9001	Jul.	26	21	27	21	31	32.603
3259	"	22	23	36	23	42	72.694	9021	"	27	21	05	21	07	33.588
3269	"	23	21	24	21	29	73.601		1944						
3284	"	26	21	19	21	24	76.599	10098	June	15	22	05	22	10	1257.630
3296	"	27	21	15	21	20	77.596	10105	"	16	21	53	21	55 ^{1/2}	58.621
3310	"	28	21	16	21	21	78.596	10121	"	17	21	23	21	26	59.600
3325	"	29	21	18	21	28	79.599		1946						
1940								12043	May	29	00	30	00	34	1969.731
5706	June	5-6	21	25	21	35	9786.604	12063	"	29	23	36	23	39	70.693
5720	"	6-7	21	24	21	34	87.603	12109	June	4	22	15	22	18	76.636
5804	Jul.	2-3	21	30	21	38	813.607	12138	"	5	23	24	23	28	77.685
5817	"	3	21	33	21	41	14.609	12276	"	28	22	14	22	20	2000.637
5832	"	4	21	34	21	42	15.610	12323	Jul.	2	22	33	22	37	04.649
5839	"	5	21	31	21	39	16.608	12357	"	11	21	16	21	20	06.596
1941					243+				1947						
6855	June	25	21	40	21	46	0171.613		May	21	00	01	00	04	326.710
6868	"	26	21	36	21	44	72.611	13326	"	23	00	36	00	39	2328.734
6926	Jul.	21	21	53	22	05	0197.624	13340	June	17	21	22	21	25	54.600
6936	"	23	21	56	22	06	99.626	13392	"	18	21	26	21	29	55.603
6947	"	24	21	46	21	56	0200.619	13415	"	19	21	24	21	27	56.601
1942								13439	"	20	21	23	21	26	57.600
7852	June	8	21	23	21	29	0519.601	13454	"	24	23	46	23	50	61.700
7867	"	9	21	23	21	29	20.601	13504	1948						
7935	Jul.	9	21	29	21	33	50.605		June	30	21	26	21	29	2733.602
7952	"	12	21	25	21	29	53.602	14506	Jul.	1	21	24	21	27	34.601
7971	"	13	21	39	21	43	54.612	14530	"	7	21	29	21	32	40.605
7989	"	14	22	01	22	05	55.627	14578	"	8	21	28	21	31	41.604
8008	"	15	21	49	21	52	56.618	14602	"	9	22	26	22	31	42.645
8115	Aug.	14	20	43	20	47	86.573	14627	Aug.	6	20	49	20	51	70.
1943								14750	1949						
8801	June	4	21	04	21	06	0880.587		May	31	22	54	22	56	3068.663
8804	"	4	21	48	21	52	.618	16016	June	1	22	33	22	35	69.649
8807	"	4	22	40	22	44	.654	16043	"	27	21	24	21	25	95.600
8810	"	4	23	24	23	28	.685	16167	"	28	21	30	21	32	3096.605
8813	"	5	00	19	00	23	.725	16196	1950						
8816	"	5	01	05	01	09	0880.755		Jul.	13	21	23	21	25	476.600
8819	"	5	01	45	01	49	.783	17448							

1971							
34846	July	19	21	47	21	50	1152.617
34870	"	20	21	39	21	42	53.611
34874	"	20	22	38	22	41	.653
34895	"	21	21	21	21	24	54.599
34899	"	21	22	29	22	31	.646

1946					243+	1957					243+					
4454	June	6	00	14	00	20	1977.720	23836	June	26	00	13	00	21	6015.720	
12279	"	28	22	56	23	10	2000.669	23889	Jul.	23	21	50	21	56	43.620	
12325	Jul.	2	22	58	23	08	04.669	23907	"	24	21	56	22	02	44.624	
12343	"	3	23	10	23	21	05.678		1959							
12362	"	4	22	26	22	36	06.647	24775	June	30	23	39	23	47	6750.697	
	1947							24792	Jul.	3	00	08	00	14	52.716	
13343	May	23	01	15	01	20	2328.762		1960							
13401	June	17	23	39	23	45	54.696	25193	June	27	23	51	23	57	7113.704	
13425	"	18	23	48	23	52	55.701	25216	"	29	23	29	23	35	7115.689	
13449	"	20	00	04	00	10	56.713		1962							
13465	"	21	00	20	00	26	57.724	26223	Jul.	4	23	15	23	21	7850.679	
13503	"	24	23	34	23	42	61.693		1963							
	1948								26831	June	18	00	11	00	17	8198.718
14514	June	30	23	35	23	41	2733.693	26855	"	19	00	23	00	29	99.727	
14541	Jul.	2	00	11	00	17	34.718		1964							
14583	"	7	22	57	23	03	40.667	27560	Jul.	10	23	43	23	49	587.699	
14607	"	8	22	55	23	01	41.665		1966							
14630	"	9	23	11	23	17	42.676	29168	May	26	02	13	02	19	9271.803	
14720	Aug.	3	22	03	22	09	67.629		1968							
14755	"	6	21	27	21	31	2770.603	31238	June	20	00	16	00	24	244+ 0027.722	
	1949								31261	"	21	00	22	00	30	28.726
16028	June	1	01	47	01	53	3068.778		1969							
16059	"	2	01	50	01	53	69.785	32208	June	17	00	53	01	01	389.748	
16181	"	28	00	09	00	13	95.716		1971							
16207	"	28	23	35	23	43	96.694	34873	July	20	22	22	22	28	1153.643	
16220	"	29	23	57	00	03	97.708									
	1950															
17452	Jul.	13	22	05	22	09	466.630									
17478	"	14	22	51	22	55	77.662									
17510	"	18	22	25	22	29	81.644									
17532	"	20	22	36	22	40	83.651									
17629	Aug.	11	20	57	21	03	505.583									
	1951															
18166	June	26	00	06	00	12	823.715									
18279	Jul.	31	21	21	21	27	59.600									
18295	Aug.	1	21	40	21	44	60.612									
	1952															
19154	June	17	00	33	00	39	4180.733									
19174	"	18	00	36	00	42	81.735									
19200	"	20	00	47	00	53	83.743									
	1953															
20242	Jul.	14	22	40	22	50	573.656									
	1954															
21400	Jul.	5	23	41	23	47	4929.697									
21429	"	7	23	32	23	38	31.691									
	1955															
22346	June	15	00	25	00	31	5273.728									
22366	"	16	00	26	00	32	74.728									
22473	Jul.	18	22	20	22	28	307.642									
22518	"	20	22	25	22	31	09.645									
	1956															
23298	Jul.	30	22	20	22	26	685.641									
23331	Aug.	2	21	40	21	46	88.613									

1946				243+	1969				244+		
12068	May	30	01 01	01 13	1970.756	32128	May	13	01 20	01 30	0354.767
12071	"	30	01 50	02 00	.788	32140	"	15	01 23	01 05	56.770
12116	June	5	00 17	00 27	76.723	32144	"	15	03 08	03 18	.842
12121	"	5	01 11	01 21	.761	32203	June	16	23 19	23 33	89.685
12140	"	5	23 47	23 57	77.703	32206	"	17	00 22	00 34	.728
12260	"	27	23 51	00 01	99.706	32210	"	17	01 26	01 38	.772
12261	"	27	00 03	00 17	.715	32212	"	17	01 58	02 10	.794
12280	"	28	23 23	23 43	2000.690	32219	clouds	20	00 51	00 00	92.747
12326	Jul.	2	23 11	23 23	04.	32228	June	20	23 38	23 51	93.698
1947						32231	"	21	00 39	00 52	.740
13344	May	23	01 26	01 36	328.752	32234	"	21	01 43	01 55	.784
13400	June	17	23 27	23 35	54.688	32440	Aug.	13	21 13	21 23	447.596
13426	"	18	23 54	00 02	55.707	1970					
13446	"	19	22 59	23 06	56.669	33203	June	4	00 02	00 12	0741.713
13447	"	19	23 30	23 42	.692	33206	"	4	01 10	01 20	.760
13462	June	20	23 00	23 10	2357.670	33211	"	4	02 34	02 44	.819
13507	"	25	00 21	00 33	61.727	33335	"	30	01 26	01 36	67.772
1948											
14512	June	30	23 05	23 17	2733.674						
14517	Jul.	1	00 07	00 19	.717						
14536	"	1	22 39	22 49	34.656						
14542	"	2	00 21	00 33	.727						
1953											
20077	June	9	23 23	23 31	4538.685						
20117	"	12	00 20	00 34	40.727						
20229	Jul.	14	21 57	22 17	72.630						
20241	"	14	22 16	22 36	73.643						
20275	"	16	21 30	21 42	75.608						
1954											
21416	Jul.	6	21 58	22 05	930.626						
21424	"	7	22 04	22 16	31.632						
1955											
22472	Jul.	18	21 58	22 16	5307.630						
22475	"	18	22 54	23 12	5307.669						
1963											
26830	June	17-18	23 57	00 07	8198.710						
26833	"	18	00 39	00 49	.739						
26850	"	18	23 06	23 16	99.674						
26852	"	18	23 38	23 48	.697						
26856	"	19	00 33	00 43	.735						
1964											
27541	Jul.	7	00 10	00 22	583.720						
27545	"	7	22 08	22 18	84.634						
27561	"	10	23 54	00 06	87.708						
1966											
29101	May	20	01 49	01 59	9265.788						
29105	"	20	02 52	03 02	.831						
29108	"	20	03 32	03 40	.858						
29140	"	25	01 41	01 51	70.782						
29144	"	25	02 48	02 58	.828						
29146	"	25	03 18	03 27	.849						
29160	"	26	00 30	00 40	71.732						
29166	"	26	01 39	01 49	.781						
29171	"	26	02 48	02 58	.828						

1932					242+	1935					242+
20545	Jul.	26	00 23	00 24	6915.850	DD0174	Aug.	23	00 18	00 23	8037.722
20573	Aug.	3	23 50	23 55	23.828		"	23	22 39	22 44	38.654
20574	"	3	23 59	00 00	.833		"	24	00 13	00 18	.719
20575	"	3	00 03	00 08	.837		"	28	22 42	22 47	43.656
20576	"	3	00 10	00 11	.840		"	29	23 44	23 49	44.699
20599	"	5	00 03	00 05	6925.836		1936				
20600	"	5	00 08	00 14	.841	826	May	20	21 27	21 30	8309.603
20601	"	5	00 15	00 21	.846	832	"	20	23 50	00 00	.705
20602	"	5	00 22	00 24	.849	1116	Jul.	16	01 43	01 48	65.781
20612	"	10	21 52	21 54	30.745	1129	"	17	01 39	01 49	66.781
20648	"	24	23 10	23 12	44.799	1231	Aug.	11	00 08	00 13	91.715
20649	"	24	23 14	23 20	.804	1246	"	12	00 34	00 42	92.735
20650	"	24	23 29	23 35	.814	1270	"	17	22 07	22 12	98.632
20651	"	24	23 37	23 39	.818	1277	"	18	01 58	02 08	.794
20678	"	26	22 45	22 47	6946.782	1289	"	18	22 58	23 08	99.669
20679	"	26	22 49	22 55	.786	1293	"	19	01 04	01 15	8399.757
20680	"	26	22 56	23 02	.791		1937				
20681	"	26	23 04	23 06	.795	1975	June	3	21 38	21 48	8688.615
1933						1979	"	3	22 20	22 28	.683
21388	Jul.	19	23 51	23 56	7273.829	1987	"	4	03 31	03 34	.856
21389	"	19	23 59	00 01	.833	1988	"	4	21 37	21 47	89.612
21390	"	19	00 03	00 05	.836	1992	"	4	23 09	23 19	.676
21403	"	20	00 41	00 43	74.863	2004	"	7	21 36	21 46	92.612
21404	"	20	00 45	00 50	.867	2008	"	7	22 53	22 58	.664
21405	"	20	00 52	00 57	.871	2019	"	9	03 02	03 07	93.836
21418	"	21	01 21	01 26	75.891	2027	"	11	21 26	21 36	96.605
21419	"	21	01 28	01 30	.895	2030	"	11	22 13	22 18	.636
21420	"	21	01 32	01 34	.898	2042	"	12	03 21	03 26	.849
21516	Aug.	21	23 02	23 07	7306.795	2107	"	30	21 57	22 07	8715.626
21517	"	21	23 09	23 11	7306.799	2118	Jul.	1	02 38	02 42	.819
21518	"	21	23 13	23 15	.801		1938				
21530	"	22	20 49	20 51	07.701	3245	June	21	21 41	21 47	9071.614
21531	"	22	20 55	21 05	.708	3255	"	22	03 08	03 13	.841
21532	"	22	21 06	21 08	.713	3267	"	23	03 17	03 22	72.847
21559	"	23	00 32	00 39	08.858	3268	"	23	21 12	21 18	73.594
21560	"	23	00 43	00 45	.864	3272	"	23	22 02	22 07	.628
21561	"	23	00 49	00 51	.868	3282	"	24	03 18	03 22	.847
21575	"	24	00 33	00 38	7309.858	3283	"	26	21 11	21 16	76.593
1934						3286	"	26	21 54	21 59	.622
23075	June	8	02 09	02 11	7597.924	3295	"	27	03 14	03 19	.845
23173	Jul.	19	02 00	02 03	7638.917	3297	"	27	21 23	21 28	77.601
23179	"	20	23 18	23 20	39.805	3299	"	27	22 10	22 15	.633
23221	Aug.	2	00 39	00 41	52.861	3308	"	28	03 02	03 07	.837
23222	"	2	00 47	00 49	.867	3311	"	28	21 25	21 30	78.603
23243	"	8	00 48	00 51	58.867	3313	"	28	22 09	22 14	.633
23257	"	9	00 28	00 31	59.853	3323	"	29	02 42	02 46	9078.822
23311	"	14	00 26	00 29	64.853	3326	"	29	21 36	21 42	79.611
23401	Sept.	3	22 17	22 22	7685.763	3329	Jul.	2	02 53	02 58	81.830
23402	"	3	22 28	22 35	85.772	3335	1939 ¹⁹	09	09 30	09 40	99.608
23403	"	3	22 42	22 45	.780	4576	June	14	21 31	21 38	9429.607
23524	Oct.	2	20 34	20 39	7713.692	4579	"	15	21 26	21 32	30.603
23527	"	3	18 50	18 53	14.619	4691	Jul.	18	21 30	21 35	63.606
23536	"	4	19 03	18 06	15.628	4701	"	19	21 20	21 25	64.599
235598	"	17	18 28	18 31	28.603	4799	Aug.	11	00 50	00 58	87.746

	1939				242+		1941			243+	
4803	Aug. 13	20	37	20	42	89.569	6934	Jul. 23	21 08	21 14	0199.597
4804	" 13	20	45	21	15	.583	6941	" 24	02 17	02 25	.806
4809	" 13	00	36	00	41	.735	6945	" 24	21 05	21 13	0200.590
4816	" 14	20	57	21	02	90.583	6955	" 25	01 48	01 56	.786
4817	" 14	21	05	21	41	.597		1942			
4826	" 15	20	36	20	44	91.569	7851	June 8	21 14	21 18	0519.594
4969	Sept. 11	20	41	21	47	9518.572	7855	" 8	22 49	22 53	.660
4976	" 12	21	19	21	25	19.599	7866	" 9	21 15	21 19	0520.595
4981	" 13	23	22	23	29	20.685	7870	" 9	22 47	22 51	.659
	1940						7934	Jul. 9	21 20	21 24	50.599
5698	June 4	23	32	23	42	9785.692	7945	" 10	02 52	02 56	.829
5708	" 5	22	14	22	20	86.637	7951	" 12	21 17	21 21	53.597
5719	" 5	03	15	03	20	.846	7966	" 13	02 10	02 15	.793
5722	" 6	22	12	22	18	87.635	7972	" 13	21 50	22 10	54.625
5723	" 6	22	21	22	29	.642	7986	" 14	21 15	21 19	55.595
5724	" 6	23	29	23	35	.689	8005	" 15	21 13	21 16	56.593
5805	Jul. 2	21	43	21	49	9813.615		1943			
5807	" 2	22	30	22	35	.647	8886	June 23	21 10	21 12	0899.591
5813	" 3	02	06	02	20	.801	8892	" 23	22 31	22 33	.647
5816	" 3	21	21	21	27	14.600	8893	" 23	22 34	22 54	.656
5819	" 3	22	26	22	31	.644	8910	" 24	02 54	02 57	.830
5828	" 4	02	43	02	49	.824	8911	" 24	21 15	21 17	0900.594
5831	" 4	21	21	21	27	15.600	8917	" 24	22 20	22 22	.640
5834	" 4	22	21	22	27	.642	8918	" 24	22 24	22 54	.652
5838	" 5	21	18	21	24	16.598	8932	" 25	02 49	02 51	.826
5841	" 5	22	26	22	32	.645	8936	" 25	22 13	22 16	0901.635
5851	" 6	02	45	02	53	.826	9019	Jul. 27	02 34	02 37	32.816
5938	" 29	21	03	21	06	40.586		1944			
5942	" 30	21	11	21	17	41.593	10099	June 15	22 33	22 36	1257.649
5953	" 31	02	22	02	30	.810	10108	" 16	22 43	22 45	58.656
5957	" 31	20	53	21	01	9842.581	10124	" 17	22 00	22 02	59.626
5965	Aug. 1	00	15	00	25	.722		1946			
5972	" 1	20	50	20	58	43.579	12042	May 29	00 23	00 25	1969.725
5981	" 2	00	53	00	59	.747	12059	" 29	22 34	22 36	70.649
	1941						12111	June 4	22 47	22 49	76.658
6832	June 23	21	25	21	31	0169.603	12135	" 5	22 36	22 38	77.651
6835	" 23	22	55	23	01	.665	12254	" 27	21 13	21 15	99.593
6841	" 24	02	45	02	51	.825	12256	" 27	22 04	22 09	Red .630
6843	" 24	21	34	21	44	70.610	12257	" 27	22 11	22 21	Red .637
6846	" 24	23	06	23	12	.673	12258	" 27	22 24	22 44	Red .649
6852	" 25	02	33	02	43	.818	12274	" 28	21 49	21 53	2000.619
6854	" 25	21	30	21	36	71.606	12319	Jul. 2	21 25	21 45	Red04.608
6857	" 25	22	25	22	27	.643	12320	" 2	21 48	21 50	.617
	area 61	22	32	22	34		12339	" 3	21 14	22 24	Red05.617
		22	37	22	39		12340	" 3	22 28	22 35	.647
6858	June 25	22	41	22	47	area 61	12359	" 4	21 46	21 48	06.617
		22	49	22	55	0171.661		1947			
6867	" 26	21	26	21	32	72.603	13325	May 20	23 52	23 55	2326.704
6871	" 26	22	39	22	43	.653	13339	" 23	00 25	00 27	28.726
	area 61	22	45	22	49		13396	June 17	22 29	22 31	54.646
6879	June 27	03	04	03	10	72.838	13420	" 18	22 28	22 30	55.645
6924	Jul. 21	21	04	21	10	97.588	13444	" 19	22 25	22 27	56.643
6932	" 22	01	16	01	24	.764	13459	" 20	22 22	22 24	57.641

	1947				243+
13487	June 23	22 30	22 32		60.647
	1948				
14507	June 30	21 34	21 36		2733.608
14531	Jul. 1	21 31	21 34		34.606
14577	" 7	21 20	21 23		40.598
14601	" 8	21 19	21 22		41.598
14622	" 9	21 17	21 20		42.596
	1949				
16019	May 31	23 35	23 37		3068.692
16049	June 1	23 32	23 33		69.685
16172	" 27	22 13	22 14		3095.634
16173	" 27	22 16	22 18		95.637
	KA 61	22 20	22 22		
16201	June 28	22 21	22 23		96.640
	1950				
17622	Aug. 11	00 04	00 06		3504.712
	1951				
18161	June 25	22 19	22 22		823.639
18290	Aug. 1	00 37	00 39		59.735
18306	" 2	00 38	00 40		60.735
	1952				
19144	June 16	21 20	21 22		80.598
19163	" 17	21 21	21 23		81.599
19185	" 18	21 20	21 22		82.598
19190	" 19	21 22	21 24		83.599
	1953				
20075	June 9	22 48	22 50		538.659
20095	" 10	22 56	22 58		39.665
	1954				
21538	Jul. 29	00 40	00 42		4958.737
	1955				
22340	June 14	22 34	22 35		5273.649
22360	" 15	22 21	22 22		74.640
22377	" 16	22 21	22 22		75.640
	1956				
23205	Jul. 3	21 41	21 43		658.612
	1957				
23826	June 25	21 25	21 27		6015.601
	1960				
25181	June 27	21 23	21 24		7113.600
25208	" 29	21 47	21 49		15.617
	1970				244+
33217	June 4	22 46	22 49		42.658

26220	Jul.	4	22	38	22	42	50.653
26239	"	5	21	55	21	57	51.622
		1963					
26827	June	17	22	31	22	33	8198.647
26848	"	18	22	42	22	44	99.655
		1964					
27546	Jul.	7	22	24	22	26	584.642
27552	"	9	21	34	21	37	86.608
		1966					
29085	May	17	01	52	01	55	9262.787
29161	"	26	00	43	00	45	71.739
		1968					244+
31229	June	19	21	54	21	56	0027.622
31252	"	20	21	51	21	55	28.619

16^h 51.^m0 -22° 07'

NGC 6235

	1948					243+
14586	Jul.	7	23 39	00 03		2740.702
14632	"	9	23 50	00 14		42.710
14757	Aug.	6	21 51	22 11		70.626
	1949					
16061	June	2	02 05	02 29		3069.803
16182	"	28	00 16	00 32		95.725
	RA 133		00 36	00 52		.739
16221	June	30	00 08	00 20		97.718
	1950					
17456	Jul.	13	22 47	23 11		476.666
17533	"	20	22 42	23 06		83.666
	1951					
18167	June	26	00 15	00 33		823.724
18297	Aug.	1	22 05	22 29		60.637
	1952					
19155	June	17	00 45	01 09		4180.748
19175	"	18	00 45	01 07		81.747
19201	"	20	00 57	01 19		83.756
	1960					
25218	June	29-30	23 51	00 11		7115.709

	1931				242+		1938				242+	
19970	Sept.22	20	58	21	13	6607.712	June 21	23	24	23	34	9071.687
	1932						" 23	21	49	21	59	9073.621
20543	Jul. 26	22	58	23	13	6915.796	" 26	23	35	23	45	76.695
20556	Aug. 1	21	40	21	55	6921.742	" 27	22	29	22	37	77.648
20557	" 1	22	05	22	20	.758	" 28	22	27	22	35	78.647
area	" 1	22	29	22	44	.775						
108	" 1	22	46	23	01	.787	1939					
20572	" 3	23	10	23	25	6923.804	Aug. 14	20	36	20	41	9490.568
20583	" 4	21	25	21	45	24.739	" 15	20	53	20	58	91.581
20596	" 5	21	50	22	00	25.746	Sept.12	21	08	21	14	519.591
area 108"	" 5	22	06	22	16	.758	1940					
20644	Aug. 24	21	34	21	44	6944.735	June 4	00	03	00	11	9785.713
20645	" 24	21	47	21	57	.744	" 5	23	45	23	53	86.701
20673	" 26	21	02	21	12	46.713	" 6	23	55	00	05	87.708
20674	" 26	21	14	21	24	.722	Jul. 4	00	00	00	06	814.710
	1933						" 6	00	01	00	07	16.711
21398	Jul. 20	21	58	22	08	7274.752	" 29	22	05	22	17	40.632
21411	" 21	21	56	22	06	75.751	" 30	22	26	22	32	41.645
21514	Aug. 21	22	03	22	13	7306.756	" 31	22	13	22	21	42.637
21536	" 22	22	00	22	10	07.754	Aug. 2	00	00	00	06	43.710
21552	" 23	21	01	21	11	08.712	1941					243+
21569	" 24	20	36	20	46	09.695	June 25	01	25	01	33	0170.770
215	area 108						Jul. 21	22	44	22	54	97.659
21571	first	21	31	21	41	.733	" 24	22	56	23	02	0200.666
		21	50	22	00	.746	1944					
	1934						June 17	22	14	22	20	1259.637
23176	Jul. 20	21	38	21	48	7639.738	1946					
23236	Aug. 8	21	17	21	27	58.724	May 29	02	04	02	08	1969.796
23253	" 9	22	33	22	43	59.776	" 30	02	25	02	29	70.810
23307	" 14	22	43	22	53	64.783	June 5	00	35	00	39	76.734
							" 29	00	05	00	11	2000.714
DDO	1935						1947					
99	Aug. 1	21	00	21	15	8016.589	June 25	01	03	01	37	361.774
184	" 23	20	14	22	24	38.508	1948					
216	" 28	20	11	20	26	8043.555	Aug. 6	20	58	21	00	2770.583
	1936						1949					
822	May 20	02	01	02	11	8308.796	June 1	01	05	01	08	3068.755
835	" 21	00	42	00	52	09.741	" 2	00	06	00	08	69.713
1108	Jul. 15	21	43	21	53	65.617	" 27	23	00	23	02	95.667
1125	" 16	23	01	23	11	66.671	KA 109	23	05	23	07	.771
1225	Aug. 10	20	34	20	44	91.569	June 28	22	33	22	35	96.649
1242	" 11	22	09	22	19	92.635	" 29	23	23	23	26	97.684
1269	" 17	21	51	22	01	98.622	1950					
1286	" 18	21	27	21	37	99.606	Jul. 12	22	16	22	19	3475.637
	1937						" 18	21	29	21	32	81.605
1978	June 3	23	03	23	13	8688.672	" 20	21	20	21	24	83.599
1993	" 4	23	25	23	40	89.689	Aug. 10	21	37	21	43	504.011
2007	" 7	22	36	22	46	92.654	1951					
2011	" 9	00	05	00	15	93.715	Jul. 30	21	54	22	02	858.624
2020	" 11	00	35	00	45	95.736	" 31	21	12	21	16	59.593
2032	" 11	22	38	22	48	96.655	Aug. 1	21	11	21	13	60.592
2110	" 30	22	34	22	44	8715.652	1952					
							June 16	23	16	23	18	4180.678
							1954					
							Jul. 6	22	14	22	18	930.636

	1954				243+
21531	Jul. 28	21 57	22 03		52.625
	1955				
22378	June 16	22 31	22 34		5275.648
	1956				
23209	June 3	22 48	22 52		658.660
23218	" 6	22 08	22 12		61.632
23328	Aug. 2	21 15	21 17		88.594
	1957				
23832	June 25	22 45	22 49		6015.657
23874	Jul. 22	21 38	21 42		42.611
23886	" 23	21 15	21 18		43.595
23905	" 24	21 32	21 35		44.606
	1959				
24770	June 30	22 26	22 30		6750.645
24786	Jul. 2	22 31	22 35		52.648
24805	" 3	21 34	21 36		53.608
	1960				
25186	June 27	22 25	22 27		7113.643
25212	" 29	22 37	22 39		15.651
25233	" 30	22 34	22 38		16.650
	1961				
25731	Jul. 11	22 14	22 16		492.635
	1962				
26200	Jul. 3	21 32	21 34		849.606
26221	" 4	22 46	22 50		50.658
26240	" 5	22 01	22 03		51.626
	1963				
26828	June 17	22 28	22 40		8198.652
26849	" 18	22 51	22 53		99.661
	1964				
27547	Jul. 7	22 32	22 34		584.648
27553	" 9	20 40	21 43		86.612
	1966				
29086	May 17	02 00	02 03		9262.792
29162	" 26	00 48	00 50		71.742
	1968				244+
31230	June 19	22 04	22 06		0027.628
31253	" 20	22 00	22 04		28.626

17^h 02.1^m -24° 42'

NGC 6284

14633	1948 Jul. 10	00 16	00 28	243+ 2742.724
26859	1963 June 19	01 28	01 38	8199.773

17^h 02.7^m -22° 39'

NGC 6287

	1947				243+
13405	June 18	00 50	01 00	2354.747	
13432	" 19	01 15	01 29	55.765	
13493	" 24	00 26	00 40	60.731	
	1949				
16062	June 2	02 34	02 44	3069.819	
	1957				
23893	Jul. 23	23 02	23 12	6043.671	

17^h 15.6^m -23° 43'

NGC 6325

13495 1947
June 24 00 55 01 19 243+
2360.755

17^h 15.^m9 +43° 11'

NGC 6341

	1936					242+	
833	May	21	00	09	00	19	8309.718
834	"	21	00	22	00	32	.727
1121	Jul.	16	21	08	21	23	66.594
1233	Aug.	11	00	57	01	07	91.751
1247	"	12	00	46	00	56	92.744
1250	"	12	02	05	02	15	.799
1276	"	18	01	44	01	54	98.784
	1964						243+
27558	Jul.	10	21	50	22	20	8587.628

17^h 18.8^m -19° 33'

	1946				243+
12122	June 5	01 23	01 41	1976.772	
12146	" 6	01 34	01 52	77.780	
12328	Jul. 2	23 37	00 01	2004.699	
	1947				
13433	June 19	01 33	01 57	355.782	
	1948				
14612	Jul. 9	00 39	01 03	741.744	
	1953				
20082	June 10	01 47	02 11	4538.791	
20102	" 11	01 17	01 41	39.770	
20280	Jul. 16	23 06	23 30	75.679	
	1954				
21401	Jul. 5-6	23 51	00 11	4929.709	
	KA 133	00 15	00 35	.726	
	1955				
22350	June 15	01 38	02 02	5273.785	
22384	" 17	01 49	02 13	75.792	
22497	Jul. 19	23 16	23 36	308.685	
	1956				
23214	Jul. 4	00 32	00 56	658.739	
	1957				
23839	June 26	00 57	01 21	6015.756	
	1968			244+	
31240	June 20	00 46	01 00	0027.745	

1946				243+		1960				243+	
12120	June	5	00 55	01 09	1976.751	25190	June	27	23 19	23 25	.682
12124	"	5	01 55	02 09	.793	25191	"	27	23 27	23 35	.688
12145	"	6	01 18	01 32	77.767	25192	"	27	23 37	23 43	.694
12346	Jul.	4	00 22	00 36	2005.728	25194	"	27-28	00 02	00 10	.713
12366	"	4	23 29	23 43	06.692	25195	"	28	00 12	00 20	7113.719
12367	"	4	23 45	23 55	.701	25197	"	28	00 48	00 55	.744
area	133	00	02 00	00 13	.714	25198	"	28	01 00	01 08	.746
	1947					25199	"	28	01 10	01 20	.754
13345	May	23	01 57	02 11	2328.794	25215	"	29	23 16	23 24	15.681
13346	"	23	02 15	02 29	.807	25217	"	29	23 40	23 46	.697
13347	"	23	02 32	02 46	.818	25219	"	30	00 14	00 22	.721
13428	June	19	00 14	00 28	55.723	25221	"	30	00 50	00 58	.746
13429	"	19	00 29	00 43	.733		1962				
13451	"	20	00 20	00 34	56.727	26206	Jul.	3	23 23	23 31	849.685
13467	"	21	00 39	00 53	57.740	26208	"	4	00 19	00 27	49.724
13491	June	23	23 38	23 52	2360.698	26224	"	4	23 25	23 33	50.687
	1948					26226	"	5	00 05	00 15	.715
14582	Jul.	7	22 34	22 48	740.653		1963				
14754	Aug.	6	21 12	21 24	70.596	26832	June	18	00 22	00 30	8198.726
	1949					26834	"	18	00 53	01 01	.748
16027	June	1	01 22	01 34	3068.769	26836	"	18	01 21	01 29	.767
	1950					26854	"	19	00 09	00 17	99.717
17455	Jul.	13	22 36	22 44	476.653	26858	"	19	01 10	01 18	.760
17479	"	14	22 59	23 06	77.668		1964				
17509	"	18	22 10	22 22	81.636	27543	Jul.	7	00 44	00 52	583.742
	1951					27562	"	11	00 17	00 25	87.723
18280	Jul.	31	21 33	21 45	859.610		1966				
	1953					29102	May	20	02 10	02 18	9265.801
20080	June	10	00 21	00 33	4538.727	29107	"	20	03 19	03 27	.849
	KA	133	00 37	00 49	.738	29143	"	25	02 15	02 25	70.806
20100	June	11	00 23	00 35	39.728	29145	"	25	03 03	03 12	.839
20257	Jul.	15	21 58	22 12	74.628	29167	"	26	02 00	02 10	71.795
	1955					29172	"	26	03 11	03 21	.844
22345	June	15	00 10	00 22	5273.719		1968				
22474	Jul.	18	22 32	22 44	307.651	31237	June	20	00 04	00 12	244+.0027.714
22519	Jul.	20	22 36	22 44	5309.653	31239	"	20	00 32	00 40	.733
	1956					31241	"	20	01 06	01 14	.756
23299	Jul.	30	22 32	22 40	685.650	31243	"	20	01 39	01 47	.779
23330	Aug.	2	21 25	21 35	88.604	31260	"	20-21	23 56	00 04	28.708
	1957					31264	"	21	01 06	01 14	.757
23835	June	25	23 55	00 09	6015.713		1969				
23888	Jul.	23	21 40	21 48	43.613	32207	June	17	00 38	00 46	389.738
23906	"	24	21 44	21 52	44.616	32211	"	17	01 43	01 51	.783
	1959					32232	"	21	01 07	01 15	393.758
24772	June	30	22 50	23 00	6750.663	32235	"	21	02 01	02 09	.795
24774	"	30	23 26	23 34	.688		1970				
24778	Jul.	1	00 18	00 26	.724	33212	June	4	02 53	03 01	0741.831
24780	"	1	00 50	00 58	.746	33227	"	5	02 18	02 26	42.807
24788	"	2	22 51	23 01	52.664	33345	July	1	00 55	01 03	68.749
24791	"	2-3	23 57	00 05	.709						
24809	"	3	23 53	00 01	53.706						
24812	"	4	00 51	00 59	.746						
	1960										
25189	June	27	23 09	23 17	7113.676						

	1933				242+		1941				243+
21387	Jul. 19	23 13	23 38	7273.809	6860	June 25	23 36	00 01			71.700
21400	" 20	22 53	23 18	74.796	6865	" 26	02 21	02 45			.815
21414	" 21	23 18	23 43	75.813	6872	" 26	22 54	23 18			72.671
21513	Aug. 21	21 30	21 50	7306.736	6877	" 27	01 49	02 07			.790
21537	" 22	22 19	22 39	07.770	6929	Jul. 21	23 10	23 40			97.684
21555	" 23	22 05	22 25	08.760	6937	" 23	22 21	23 01			99.653
	KA 109	22 35	22 55	.781	6948	" 24	22 11	22 41			0200.643
	1935					1942					
DD0188	Aug. 23	21 47	22 12	8038.624	7861	June 9	01 21	01 39			0519.771
1983	1937				7864	" 9	02 41	02 59			.826
1983	June 4	01 47	02 17	8688.793	7873	" 10	00 24	00 44			20.732
1996	" 5	01 06	01 51	89.770	7878	" 10	02 40	02 58			.826
2015	" 9	01 46	02 16	93.792	7922	Jul. 8	22 18	22 32			49.642
2036	" 12	00 33	01 13	96.745	7928	" 9	01 07	01 19			.759
2113	Jul. 1	23 55	00 30	715.717	7930	" 9	01 52	02 06			.797
	1938				7938	" 9	23 36	23 46			0550.695
3251	June 22	01 06	01 41	9071.766	7944	" 10	02 28	02 38			.815
3262	" 23	00 34	01 14	72.745	7948	" 11	22 41	22 55			52.658
3264	" 23	02 00	02 35	9072.815	7954	" 12	21 56	22 06			53.626
3274	" 23	22 45	23 33	73.673	7960	" 12	23 48	23 58			.703
3277	" 24	23 45	01 20	74.752	7965	" 13	01 50	02 04			.790
3291	" 27	00 05	00 40	76.724	7975	" 13	22 59	23 32			54.677
3302	" 27	22 45	23 20	77.668	7980	" 14	00 54	01 05			.750
3305	" 28	01 09	01 44	.768	7982	" 14	01 35	01 51			.778
3316	" 28	22 45	23 20	78.668	7992	" 14	22 51	23 03			55.665
3319	" 29	00 36	01 06	.743	7997	" 15	00 45	00 57			.744
	1939				8000	" 15	01 55	02 09			.793
4683	Jul. 17	21 44	22 09	462.622	8012	" 15	22 47	22 57			56.661
4691	" 18	21 42	22 07	63.625	8018	" 16	00 16	00 26			.723
4702	" 19	21 33	22 13	64.631	8022	" 16	01 20	01 30			.767
4794	Aug. 11	20 47	21 14	87.583		1943					
4805	" 13	21 26	21 58	89.612	8817	June 5	01 15	01 25			0880.764
4818	Aug. 14	21 51	22 16	9490.628	8824	" 5	02 43	02 55			.826
4829	" 15	21 39	22 12	91.622	8835	" 7	23 22	23 34			83.687
4968	Sept. 11	20 11	20 36	518.558	8845	" 8	23 56	00 06			84.709
	1940				8855	" 8-9	02 24	02 33			.811
5701	June 4	00 17	00 42	9785.729	8894	June 23	22 58	23 08			99.669
5713	" 5	23 59	00 24	86.717	8906	" 23	01 57	02 07			.797
5730	" 6	02 41	03 01	87.827	8920	" 24	23 16	23 26			0900.681
5810	Jul. 3	23 59	00 24	813.717	8928	" 25	01 40	01 54			.782
	KA 109	00 27	00 52	.736	8931	" 25	02 34	02 44			.819
5824	Jul. 4	00 16	00 36	14.726	9010	Jul. 26	23 43	23 53			32.700
	KA 109	00 41	01 01	.744	9029	" 27	23 05	23 14			33.673
5847	Jul. 6	00 48	01 08	16.749	9034	" 28	00 22	00 32			.727
5944	" 30	21 49	22 14	41.628		1946					
5949	" 31	00 02	00 27	.718	12047	May 29	01 45	01 53			1969.784
5959	" 31	21 32	21 57	42.614	12266	June 28	01 57	02 09			99.794
5963	" 31	22 55	23 20	.672	12283	" 29	00 16	00 30			2000.724
5966	Aug. 1	00 32	00 57	.739		1947					
5977	" 1	23 22	23 47	43.690	13461	June 20	22 46	22 56			2357.660
	1941				243+	" 25	00 57	01 13			61.753
6834	June 23	22 17	22 42	0169.646		1949					
6851	" 25	01 44	02 09	70.789	16206	June 28	23 18	23 28			3096.683

	1950					243+
17430	Jul.	12	22	27	22	47 475.651
17450	"	13	21	41	21	49 76.615
17454	"	13	22	23	22	31 .644
17476	"	14	22	10	22	18 77.638
17508	"	18	21	53	22	05 81.624
17529	"	20	21	28	21	44 83.608
	1952					
19148	June	16	22	57	23	13 4180.670
19168	"	17	22	36	22	46 81.653
19195	"	19	22	57	23	07 83.668
	1953					
20097	June	10	23	26	23	36 539.688
20116	"	11	23	55	00	07 40.709
20230	Jul.	13	22	26	22	46 72.650
20245	"	14	23	26	23	38 73.689
20256	"	15	21	41	21	51 4574.616
20276	"	16	21	46	21	56 75.619
20376	Aug.	6	21	24	21	44 96.607
20388	"	7	21	40	22	00 97.618
	1954					
21396	Jul.	5	22	23	22	31 4929.644
21418	"	6	22	30	22	44 30.651
21534	"	28	23	17	23	37 52.685
	1956					
23213	Jul.	4	00	13	00	29 5658.723
23220	"	6	22	27	22	39 61.648
	1957					
23833	June	25	22	52	23	06 6015.665
	1959					
24787	Jul.	2	22	38	22	46 6752.654
	1961					
25187	June	27	22	35	22	45 7113.653
25213	"	29	22	43	22	51 15.658
25234	"	30	22	42	22	56 16.659
	1962					
26241	Jul.	5	22	52	23	04 851.665
	1968					244+
31236	June	19	23	45	23	55 0027.701
31256	"	20	22	35	22	45 28.653
31262	"	21	00	35	00	45 .735
	1969					
32204	June	16	23	42	23	52 389.698
32209	"	17	01	10	01	18 .760
32441	Aug.	13	21	52	22	00 447.622
	1970					
33207	June	4	01	32	01	42 0741.776
33213	"	4	03	09	03	19 .843
33224	"	5	00	59	01	09 42.753
33228	"	5	02	35	02	45 .819
33334	"	30	01	01	01	09 67.754
33344	July	1	00	34	00	44 68.735
	1971					
34847	July	19	22	06	22	14 1152.632
34871	"	20	21	50	21	58 53.621
34896	"	21	21	32	21	42 54.609

17^h 36^m.2 -23° 53'

NGC 6401

	1947				243+
13407	June 18	01 16	01 28	2354.765	
13496	" 24	01 24	01 44	60.774	
	1954				
21432	Jul. 8	00 19	00 43	4931.730	
	1955				
22351	June 15	02 06	02 30	5273.804	
22543	Jul. 21	23 27	23 51	310.694	
	1956				
23301	Jul. 30	23 38	23 58	685.700	
	1957				
23894	Jul. 23	23 24	23 37	6043.688	
	KA 61	23 47	00 00	.704	
	1968			244+	
31242	June 20	01 21	01 33	0027.769	

1932				242+	1935				242+	
20544	Jul.	26	23 30	23 50	6915.820	189	Aug.	23 22 17	22 32	.624
20559	Aug.	1	23 36	23 56	21.820	192	"	23 23 36	23 56	.699
20571	Aug.	3	22 35	22 55	23.778	217	"	28 20 31	20 46	43.569
20584	"	4	21 55	22 15	24.754	219	"	28 21 26	21 46	.608
20587	"	4	23 30	23 50	.820	223	"	28 23 00	23 25	.633
20597	"	5	22 23	22 43	25.772	224	"	29 22 03	22 05	44.628
KA 109			22 50	23 10	.792					
20647	Aug.	24	22 30	22 55	44.779	820	1936	May 20 00 49	00 59	8308.746
20675	"	26	21 35	21 55	46.740	821	"	20 01 11	01 29	.764
						824	"	20 02 54	03 18	.838
						836	"	21 01 08	01 28	09.762
21377	Jul.	18	22 30	22 55	7272.779	837	"	21 01 31	01 46	.776
21380	"	18	00 25	00 50	.859	840	"	21 02 45	03 05	.830
21386	"	19	22 36	23 01	73.783	1109	Jul.	15 21 58	22 22	65.632
21399	"	20	22 18	22 43	74.771	1110	"	15 22 28	22 48	.651
21406	"	20	01 06	01 26	.886	1112	"	15 23 38	00 02	8365.701
21412	"	21	22 13	22 28	75.764	1113	"	16 00 04	00 24	.718
21416	Jul.	21	00 15	00 40	7275.852	1115	"	16 01 08	01 33	.765
21518	Aug.	21	22 25	22 45	306.774	1123	"	16 21 45	22 20	66.626
21538	"	22	22 57	23 17	07.797	1124	"	16 22 22	22 57	.653
21556	"	23	22 59	23 19	08.798	1127	"	17 00 02	00 42	.724
						1226	Aug.	10 20 53	21 23	91.589
23178	Jul.	20	22 40	23 00	639.785	1227	"	10 21 25	21 50	.610
23237	Aug.	8	21 42	22 07	58.746	1229	"	10 22 57	22 27	.675
23240	"	8	23 12	23 37	.808	1230	"	10 23 28	23 58	.696
23252	"	9	21 58	22 23	59.757	1240	"	11 21 09	21 39	92.600
23255	"	9	23 31	23 51	.820	1241	"	11 21 40	22 05	.620
23256	"	9	23 54	00 19	.837	1244	"	11 23 19	23 54	.692
23306	"	14	22 08	22 38	64.766	1257	"	12 21 47	21 57	93.620
23308	"	14	22 58	23 23	.799	1267	"	17 20 46	21 16	98.584
23399	Sept.	3	21 15	21 45	85.729	1268	"	17 21 18	21 48	8398.606
23522	Oct.	2	19 27	19 49	713.651	1271	"	17 22 23	22 48	.650
23529	Oct.	3	19 46	20 11	14.665	1272	"	17 22 53	23 33	.676
23538	"	4	19 42	20 07	7715.663	1284	"	18 20 36	21 11	99.579
23600	"	17	18 59	19 24	28.633	1287	"	18 21 43	22 23	.627
						1290	"	18 23 13	23 58	.692
DD069	Jul.	25	23 05	23 45	8009.684		1937	June 3 23 44	00 14	8688.708
91	"	31	21 18	21 43	15.604	1980	"	4 00 51	00 21	.754
92	"	31	23 01	23 16	.673	1982	"	4 02 22	02 52	.817
100	Aug.	1	21 21	21 46	16.606	1984	"	5 23 54	00 24	89.715
101	"	1	21 48	22 08	.624	1994	"	5 01 56	02 26	.799
KA 109			22 15	22 35	.642	2013	"	9 00 32	01 02	93.741
102	Aug.	1	22 52	23 17	.670	2021	"	11 00 48	01 23	95.754
103	"	1	23 20	23 45	.689	2033	"	11 22 55	23 25	96.674
104	"	1	23 47	00 12	.707	2035	"	12 23 57	00 27	.717
105	Aug.	2	00 16	00 41	.728	2037	"	12 01 15	01 45	96.771
169	"	22	21 12	21 27	37.597	2111	"	30 22 47	23 22	715.670
170	"	22	21 33	21 58	.615	2114	Jul.	1 00 34	01 04	.742
171	"	22	22 16	22 31	.642	2115	"	1 01 05	01 40	.765
KA 109			22 38	22 53	.657					
172	Aug.	22	23 00	23 25	.675					
185	"	23	20 30	20 45	38.525		1938	June 21 23 41	00 12	9071.705
186	"	23	20 47	21 02	8038.580	3249	"	22 01 45	02 20	.793
KA 109			21 05	21 20	.592	3252	"	23 01 16	01 56	72.775
187	Aug.	23	21 25	21 40	.606	3263				

1938					242+	1942					243+					
3275	June	23	23	36	00	11	73.745	7964	Jul.	13	01	25	01	43	.774	
3278	"	24	01	22	01	57	.778	7974	"	13	22	31	22	45	54.651	
3290	"	27	00	24	00	59	76.737	7979	"	14	00	29	00	44	.734	
3303	"	27	23	23	24	03	77.697	8014	"	15	23	14	23	28	56.681	
3318	"	28	23	55	00	30	78.717	8020	"	16	00	43	00	57	.743	
								8117	Aug.	14	21	15	21	35	86.601	
1939					1943											
4584	June	15	00	20	00	50	30.733		June	23	23	11	23	27	0899.680	
4684	Jul.	17	22	18	22	48	62.648	8895	"	24	00	51	01	05	.749	
4693	"	18	22	11	22	41	63.643	8902	"	24	02	14	02	28	.806	
4703	"	19	22	18	22	48	9464.648	8907	"	24	02	14	02	28	.806	
4795	Aug.	11	21	25	21	55	87.611	8919	"	24	22	58	23	12	0900.670	
4807	"	13	23	31	00	01	89.699	8926	"	25	01	09	01	23	.768	
4819	"	14	22	26	22	59	90.654	8930	"	25	02	15	02	31	.808	
4973	Sept.	12	20	20	20	55	519.568	9002	Jul.	26	21	36	21	50	32.613	
1940					1944											
5702	June	4	00	53	01	33	785.759	9003	"	26	21	51	22	03	.623	
5717	"	5	02	02	02	42	86.807	9005	"	26	22	27	22	39	.648	
5728	"	6	01	25	02	00	87.783	9006	"	26	22	40	22	52	.657	
5729	"	6	02	01	02	36	.808	9008	"	26	23	13	23	27	.681	
5808	Jul.	2	22	50	23	25	813.672	9009	"	26	23	28	23	40	.690	
5812	"	3	01	28	01	56	.779	9011	"	26	23	56	00	10	.710	
5820	"	3	22	42	23	17	14.667	9012	"	27	00	11	00	23	.720	
5825	"	4	01	04	01	39	.765	9013	"	27	00	24	00	38	.730	
5835	"	4	22	33	22	45	15.652	9022	"	27	21	13	21	25	33.596	
5836	"	4	23	38	00	13	.706	9023	"	27	21	26	21	38	.606	
5840	"	5	21	45	22	20	16.626	9025	"	27	22	02	22	14	.631	
5843	"	5	23	08	23	43	.685	9027	"	27	22	36	22	48	.654	
5846	"	6	00	10	00	45	.728	9030	"	27	23	17	23	29	.683	
5848	"	6	01	18	01	53	.775	9033	"	28	00	01	00	13	.713	
5948	"	30	23	15	23	35	9841.691		1944	June	18	00	19	00	33	1259.726
5964	"	31	23	26	00	06	42.699	10134	KA	109	00	35	00	49	.738	
5974	Aug.	1	21	35	22	10	43.619		1946	May	29	00	55	01	09	1969.751
5980	"	2	00	09	00	44	.728	12045	area	109	01	12	01	26	.763	
1941					243+	1947										
6836	June	23	23	11	23	51	0169.688	12051	May	29	02	23	02	37	.812	
6837	"	23	23	53	00	33	.717	12070	"	30	01	30	01	36	70.774	
6838	"	24	00	34	01	14	.746		area	109	01	40	01	46	.781	
6839	"	24	01	29	02	09	.784	12143	June	6	00	25	00	39	77.731	
6847	"	24	23	34	00	30	70.710		area	109	00	42	00	56	.742	
6861	"	26	00	06	00	42	71.725	12259	June	27	22	51	23	21	99.672	
6864	"	26	01	43	02	17	.792	12260	"	27	23	25	23	41	.688	
6870	"	26	22	00	22	34	72.637		NGC 6171		23	51	00	01	.706	
6875	"	27	00	31	01	07	.742	12345	Jul.	3	23	41	23	59	2005.701	
6930	Jul.	21	23	44	00	44	0197.718		area	109	00	01	00	19	.715	
6938	"	23	23	29	00	09	99.701	12349	Jul.	4	00	57	01	11	.753	
6951	"	24	23	12	00	02	0200.692	12361	"	4	22	09	22	23	06.636	
1942					1948											
7923	Jul.	8	22	36	22	56	0549.657	12364	"	4	23	01	23	15	2006.672	
7927	"	9	00	43	01	03	.745	12370	"	5	00	42	00	56	.742	
7937	"	9	23	12	23	28	50.681	13424	1947	June	18	23	30	23	44	2355.692
7940	"	10	00	12	00	28	.722	13431	"	19	00	55	01	09	.710	
7943	"	10	02	05	02	23	.801	13436	"	19	02	38	02	52	.823	
7949	"	10	23	00	23	20	52.674	13445	"	19	22	23	22	46	56.652	
7955	"	12	22	12	22	28	53.639	13448	"	19	23	49	00	01	.705	
7961	"	13	00	01	00	19	.715	13460	"	20	22	29	22	43	57.650	

13464	1947	June 20	23 31	23 51	243+	57.696		1962	6402	23 12	23 19	.687
		KA 109	23 56	00 16		.712	26207		6402	23 47	23 55	.702
13488		June 23	22 37	22 51		60.654			KA 61	00 04	00 12	.714
13492		" 24	00 07	00 21		.718	26210		Jul. 4	00 48	00 58	.745
13497		" 24	01 48	02 02		.788			6402			
	1948						26222		Jul. 4	22 55	23 07	50.667
14580		Jul. 7	22 03	22 17		740.632	26225		" 4	23 37	23 45	.695
14584		" 7	23 09	23 23		2740.678			KA 61	23 51	23 59	.705
14591		" 8	01 03	01 17		.757	26227		Jul. 4	00 22	00 36	.728
14604		" 8	22 06	22 18		41.633			1963			
14609		" 8	23 22	23 36		.687	26829		June 17	23 40	23 52	8198.699
14624		" 9	21 40	21 54		42.616	26835		" 18	01 05	01 17	.758
14629		" 9	22 56	23 08		.668	26837		" 18	01 34	01 46	.778
14638		" 10	01 27	01 41		.774	26851		" 18	23 22	23 32	99.685
14756		Aug. 6	21 36	21 48		70.612	26853		" 18	23 52	00 02	.707
14764		" 6	23 32	23 44		.693	26857		" 18	00 53	01 03	.749
	1954								1964			
21395		Jul. 5	22 05	22 19		4929.633	27559		Jul. 10	23 25	23 37	8587.688
21402		" 6	00 48	01 02		.747			1968			244+
21426		" 7	22 44	22 56		31.660	31235		June 19	23 28	23 40	27.690
21431		" 8	00 03	00 15		.714	31244		" 20	01 51	02 03	.790
	1955						31257		" 20	22 50	23 02	28.664
22343		June 14	23 30	23 44		5273.692	31263		" 21	00 50	01 02	.747
22348		" 15	01 08	01 22		73.760						
22363		" 15	23 21	23 35		74.686						
22371		" 16	01 52	02 06		.791						
22380		" 16	23 35	23 49		75.696						
22385		" 17	02 18	02 32		.809						
22516		" 20	21 56	22 10		309.627						
22521		" 20	23 04	23 18		.674						
22540		" 21	21 45	21 59		10.620						
	1956											
23295		June 30	21 28	21 36		5685.606						
		KA 61	21 42	21 50		.615						
23315		Aug. 1	21 41	21 55		87.617						
		KA 61	22 01	22 15		.631						
23332		Aug. 2	21 58	22 14		88.629						
		KA 61	22 23	22 39		.646						
	1957											
23909		Jul. 24	22 40	22 54		6044.657						
23913		" 24	23 32	23 46		.693						
	1959											
24773		June 30	23 04	23 16		6750.674						
24779		Jul. 1	00 29	00 43		.734						
24785		" 2	22 08	22 22		52.635						
24793		" 3	00 23	00 35		.728						
24808		" 3	22 19	22 33		53.643						
	1959											
24813		Jul. 4	01 02	01 16		.757						
	1962											
26203		Jul. 3	22 22	22 31		7849.643						
26204		" 3	22 42	22 47		.656						
		KA 61	22 52	22 57		.663						
26205		KA 61	23 12	23 19		.669						

17^h 42^m.9 +03° 12'

NGC 6426

	1946					243+
12263	June 28	00 40	01 04			1999.744
	1948					
14610	Jul. 8	23 42	00 06			2741.704
	1949					
16054	June 2	00 27	00 51			3069.735
	1950					
17477	Jul. 14	22 26	22 42			477.649
17512	" 18	22 54	23 18			81.671
17531	" 20	22 13	22 31			83.640
	1951					
18164	June 25	22 52	23 06			823.666
	KA 109	23 10	23 24			
18296	Aug. 1	21 48	22 02			60.622
	1952					
19151	June 16	23 29	23 49			4180.694
19169	" 17	22 49	23 03			81.664
	1953					
20078	June 9	23 41	23 55			538.700
20099	" 11	00 05	00 19			39.717
20115	" 11	23 28	23 52			40.695
20233	Jul. 13	23 23	23 47			4572.691
20246	" 14-15	23 43	00 03			73.703
20378	Aug. 6	22 12	22 42			96.644
	1954					
21420	Jul. 6	23 11	23 17			930.676
21425	" 7	22 21	22 35			31.644
21430	" 7	23 45	23 59			.703
	1955					
22365	June 16	00 06	00 20			5274.717
22372	" 16	02 22	02 38			.813
22503	Jul. 20	01 28	01 44			308.775
	1956					
23221	Jul. 6	22 44	23 04			661.663
	1957					
23834	June 25	23 17	23 27			6015.681
	1971					
34898	July 21	22 02	22 12			41154.630

17^h 59.^m6 -08° 57'

NGC 6517

12125 1946
June 5 02 18 02 44 243+
1976.813

18^h 01^m.8 -00° 18'

NGC 6535

	1948					243+
14606	Jul. 8	22 32	22 52	2741.654		
14628	" 9	22 37	22 53	42.656		
	1949					
16208	June 28	23 47	00 11	3096.708		
16225	" 30	01 20	01 40	97.771		
	1950					
17516	Jul. 19	00 01	00 17	481.715		
17536	" 20	23 35	23 47	83.695		
	KA 110	23 49	00 01	.708		
17620	Aug. 10	23 24	23 48	504.692		
17632	" 11	22 39	23 03	05.660		
	1951					
18283	Jul. 31	23 09	23 29	59.680		
18294	Aug. 1	21 19	21 35	60.602		
18300	" 1	22 58	23 14	.671		
	1952					
19152	June 16-17	23 57	00 13	4180.712		
19170	" 17	23 09	23 23	81.678		
19196	" 19	23 11	23 25	83.679		
	1953					
20236	Jul. 14	00 19	00 43	572.730		
20261	" 15	23 28	23 48	74.693		
	1956					
23212	Jul. 3-4	23 38	00 02	5658.201		
23314	Aug. 1	21 17	21 31	87.600		
	1957					
23840	June 26	01 27	01 43	6015.774		
23877	Jul. 23	00 27	00 51	42.735		
	1959					
24789	Jul. 2	23 04	23 16	6752.674		
	1960					
25188	June 27	22 50	23 02	7113.664		
25214	" 29	23 01	23 11	15.671		
25222	" 30	01 02	01 12	.755		
25235	" 30	23 06	23 26	16.685		
	1962					
26242	Jul. 5	23 09	23 23	851.678		
	1964					
27568	Jul. 11	02 09	02 21	587.802		
	1968			244+		
31259	June 20	23 38	23 50	0028.697		
31265	" 21	01 22	01 33	.769		
	1969					
32213	June 17	02 18	02 28	389.808		
32233	" 21	01 20	01 30	93.767		
	1970					
33223	June 5	00 34	00 44	0742.735		

$18^{\text{h}} 02^{\text{m}}.6 -07^{\circ} 35'$

12330	1946 Jul. 3	00 17	00 41	243+ 2004.728
13411	1947 June 18	02 14	02 28	354.806
20085	1953 June 10	02 36	03 00	4538.825
22541	1955 Jul. 21	22 06	22 30	5310.637

18^h 04.^m9 -25° 01'

	1948				243+
14635	Jul. 10	00 45	01 05	2741.747	
14733	Aug. 3	23 30	23 50	67.694	
	1949				
16187	June 28	01 33	01 49	95.778	
	1950				
17463	Jul. 14	01 05	01 19	476.758	
17484	" ; 15	00 42	00 54	77.742	
	area 134	00 56	01 08	.751	
17537	Jul. 21	00 04	00 18	83.716	
	1952				
19179	June 18	02 20	02 34	4181.810	
	1954				
21404	Jul. 6	01 18	01 32	4929.767	
21434	" 8	00 59	01 15	31.755	
	1955				
22354	June 15	03 01	03 15	5273.839	
22481	Jul. 19	00 52	01 04	307.748	
	1956				
23302	Jul. 31	00 08	00 22	685.719	
23319	Aug. 1-2	23 59	00 13	87.712	
	1957				
23896	Jul. 24	00 45	00 59	6043.744	
	1959				
24795	Jul. 3	01 15	01 29	6752.765	
24814	" 4	01 29	01 43	53.775	
	1960				
25203	June 28	02 07	02 21	7113.801	
25225	" 30	01 41	01 55	15.783	
	1962				
26228	Jul. 5	00 42	00 54	850.742	
	1963				
26860	June 19	01 55	02 05	8199.792	
	1964				
27567	Jul. 11	01 45	01 55	587.785	
	1968			244+	
31267	June 21	01 53	02 03	0028.791	

18^h 28^m.5 -25° 32'

16190	1949 June 28	02 03	02 13	243+ 3095.797
18303	1951 Aug. 1	23 40	23 48	860.697
21407	1954 Jul. 6	01 50	02 00	4929.789
21437	" 8	01 52	02 02	31.789
22388	1955 June 17	02 58	03 06	5275.835
22480	Jul. 19	00 38	00 48	307.738
22526	" 21	00 44	00 54	09.742
23897	1957 Jul. 24	01 05	01 15	6043.756

18^h 29.0^m -23° 30'

13435	1947 June 19	02 10	02 34	243+ 2355.803
14549	1948 Jul. 2	01 41	02 05	2734.787
22544	1955 Jul. 22	00 03	00 29	5310.720

18^h 50.8^m -08° 46'

12287	1946	June 29	01 26	01 42	243+	2000.774	20278	1953	Jul. 16	22 42	22 54	243+	4575.658
13408	1947	June 18	01 33	01 47	354.777		20282	" 17	00 15	00 27			.723
13412	"	18	02 32	02 46	.819		20286	" 17	01 49	01 59			.788
13512	"	25	01 40	01 54	61.783		20362	Aug. 5	21 10	21 18			95.593
14595	1948	Jul. 8	02 02	02 14	740.797		20379	" 6	22 49	23 01			96.663
16033	1949	June 1	02 43	02 53	3068.825		20382	" 7	00 16	00 28			.724
16063	"	2	02 47	02 55	69.827		21399	1954	Jul. 5	23 28	23 36	4929.689	
16186	"	28	01 22	01 30	95.768		21403	" 6	01 06	01 14			.757
16194	"	28	02 53	03 01	.831		21410	" 6	02 57	03 05			.834
16210	"	29	00 28	00 44	96.733		21427	" 7	23 01	23 09		31.670	
16222	"	30	00 25	00 33	97.728		21433	" 8	00 47	00 55			.744
17437	1950	Jul. 13	00 36	00 48	475.738		21532	" 28	22 24	22 44		52.649	
17459	"	13	23 45	23 55	76.701		21535	" 28-29	23 42	00 02			.702
17482	KA 110		23 57	00 07	.710		21539	" 29	00 47	01 07			.748
17520	Jul. 14	23 49	23 59	3477.704		22349	1955	June 15	01 25	01 33	5273.770		
17541	"	19	00 52	01 06	81.749		22352	" 15	02 40	02 48			.822
17618	Aug. 10	22 46	23 02	504.662		22368	" 16	00 53	01 01		74.748		
17633	"	11	23 07	23 23	05.677		22386	" 17	02 36	02 44		75.819	
18169	1951	June 26	01 10	01 24	823.762		22476	Jul. 18	23 17	23 25		307.681	
18276	Jul. 30	23 23	23 35	58.697		22483	" 19	01 41	01 49		5307.781		
18282	"	31	22 01	22 08	59.628		22495	" 19	22 52	23 00		08.664	
18284	"	31	23 33	23 38	.691		22498	" 19	23 40	23 46		08.696	
18289	Aug. 1	00 22	00 32	.727		22504	KA 110	23 48	23 54		.702		
18299	"	1	22 48	22 54	60.660		22520	Jul. 20	01 52	02 00		.789	
18307	"	2	00 50	00 58	.746		22528	" 20	22 51	22 59		09.663	
19156	1952	June 17	01 13	01 29	4180.765		22546	" 21	01 19	01 27		.766	
19159	"	17	01 59	02 19	.798		23296	" 22	01 18	01 26		10.765	
19173	"	18	00 17	00 31	4181.725		23306	1956	Jul. 30	21 59	22 07	685.627	
19178	"	18	01 50	02 02	.789		23316	" 31	01 33	01 41		.776	
19182	KA 110	02 05	02 17	.799		23323	KA 61	Aug. 1	22 21	22 31	87.643		
19198	June 18	02 51	03 01	.831		23337	6712	Aug. 2	22 38	22 48	.655		
19205	"	20	00 08	00 20	83.718		23837	Aug. 3	01 50	01 58	.788		
20083	1953	June 10	02 14	02 24	538.805		23841	1957	Aug. 3	01 48	01 56	5688.786	
20086	"	10	03 04	03 12	.839		23875	June 26	00 26	00 36	6015.729		
20103	"	11	01 45	01 53	39.784		23891	" 26	01 46	01 58	.786		
20118	"	12	00 39	00 49	40.739		23899	Jul. 22	23 37	23 45	42.695		
20231	Jul. 13	22 51	23 07	72.666		23910	" 23	22 41	22 49		43.656		
20234	" 13-14	23 51	00 07	.708		23914	" 24	01 50	01 58		.787		
20243	"	14	22 57	23 11	73.669		24777	" 24	22 57	23 05	44.667		
20247	"	15	00 08	00 22	.719		24818	" 25	00 02	00 10	.712		
20251	"	15	01 31	01 45	.776		25205	" 1	00 03	00 13	6750.714		
20258	"	15	22 16	22 29	74.640		25228	" 4	02 30	02 38	53.815		
20262	" 15-16	23 56	00 08	.710		26215	1960	June 28	02 49	02 57	7113.828		
20269	"	16	02 21	02 35	.811		26233	" 30	02 40	02 48	15.822		
20272	"	16	02 52	03 06	.833		27555	1962	Jul. 4	02 16	02 23	849.805	
							27569	"	5	01 48	01 56	7850.786	
								1964	Jul. 10	00 08	00 16	8586.717	
								"	11	02 27	02 35	87.813	

	1971				
34863	July 20	01 22	01 30	41152.768	
34888	21	01 34	01 42	53.776	
34901	21	22 57	23 05	54.667	

18^h 52.^m7 -22° 46'

	1948				243+
14525	Jul. 1	01 48	02 08		2733.790
14615	" 9	01 29	01 49		41.777
14766	Aug. 7	00 22	00 38		70.729
	1949				
16193	June 28	02 35	02 51		95.822
	1950				
17489	Jul. 15	01 52	02 12		3477.793
17544	" 21	01 33	01 53		83.780
	1951				
18305	Aug. 1-2	23 57	00 21		860.715
	1953				
20268	Jul. 16	01 47	02 11		4574.791
20285	" 17	01 24	01 44		75.773
20381	Aug. 6-7	23 52	00 12		96.710
	1954				
21408	Jul. 6	02 05	02 21		929.801
	KA 135	02 24	02 40		.814
21438	Jul. 8	02 06	02 22		31.801
22482	" 19	01 11	01 31		5307.765
	1955				
22501	Jul. 20	01 00	01 16		5308.755
22527	" 21	01 00	01 16		09.756
22545	" 22	00 41	01 01		10.744
	1956				
23305	Jul. 31	01 08	01 28		685.763
23321	Aug. 2	01 04	01 26		87.760
23335	" 3	00 17	00 38		88.727
	KA 61	00 45	01 05		.746
	1957				
23879	Jul. 23	01 31	01 47		6042.777
	1959				
24798	Jul. 3	02 01	02 17		6752.798
24817	" 4	02 10	02 26		53.804
	1960				
25204	June 28	02 26	02 44		7113.816
25227	" 30	02 21	02 37		15.812

19^h 09.1^m +00° 58'

	1935					242+
173	Aug. 22	23 44	00 09			8037.706
191	" 23	23 00	23 25			38.675
	1936					
1114	Jul. 16	00 35	01 05			8365.743
1128	" 17	00 47	01 32			66.757
1228	Aug. 10	22 02	22 47			91.642
1243	" 11	22 36	23 09			92.661
	1937					
2040	June 12	02 44	03 09			8696.831
2119	Jul. 1	02 49	03 19			715.836
	1938					
3279	June 24	02 03	02 58			9073.813
3306	" 28	01 47	02 32			77.799
3321	" 29	01 41	02 26			78.795
	1940					
5704	June 4	02 10	02 48			9785.812
	1941					243+
6940	Jul. 24	00 58	01 58			0199.769
	1942					
7863	June 9	02 04	02 38			0519.806
7877	" 10	02 00	02 34			20.803
7926	Jul. 9	00 09	00 39			0549.725
7942	" 10	01 32	01 59			50.778
7963	" 13	00 51	01 21			53.754
8023	" 16	01 34	01 56			56.781
	1943					
8925	June 25	00 28	00 58			0900.735
9017	Jul. 27	01 46	02 16			32.792
9035	" 28	00 36	00 58			33.741
	KA 110	01 02	01 24			.759
9038	Jul. 28	02 09	02 37			.808
	1946					
12127	June 5	02 59	03 13			1976.838
12265	" 28	01 23	01 50			99.776
12333	Jul. 3	01 05	01 35			04.764
	1948					
14552	Jul. 2	02 52	03 12			2734.835
	1950					
17466	Jul. 14	01 48	02 18			3476.794
17634	Aug. 11	23 26	23 56			505.695
17637	" 12	00 31	01 01			3505.740
	1953					
20250	Jul. 15	00 48	01 28			4573.756
20265	" 16	00 40	01 20			74.750
20284	" 17	00 38	01 18			75.748
	1954					
21439	Jul. 8	02 32	03 06			931.826
	1955					
22529	Jul. 21	01 39	02 09			5309.787
22548	" 22	01 40	02 10			10.788
	1957					
23878	Jul. 23	00 55	01 25			6042.760
23917	" 25	00 38	01 08			44.745

19^h 15.0^m +30° 06'

	1935				242+								
72	Jul.	26	02 40	02 52	8009.823	4808	Aug.	13	00 10	00 28			89.722
97	Aug.	1	02 56	03 17	15.837	4820	"	14	23 04	23 24			90.676
98	"	1	03 28	03 48	.860	4830	"	15	23 25	23 40			91.689
107	"	2	01 36	02 01	16.756	4967	Sept.	11	19 43	20 03			518.537
110	"	2	03 01	03 26	.842	4972	"	12	19 50	20 15			19.543
111	"	2	03 31	03 49	.861								
176	"	23	01 03	01 18	37.758	5703	1940						
	KA	64	01 21	01 36	.770	5705	June	4	01 40	02 00			9785.785
178	Aug.	23	02 16	02 36	.810	5714	"	4	02 55	03 06			.833
195	"	24	00 58	01 13	38.711	5716	"	5	00 29	00 49			86.722
196	"	24	01 18	01 33	.768	5718	"	5	01 35	01 55			.781
	KA	64	01 37	01 52	.781	5727	"	5	02 51	03 11			.834
201	Aug.	1	03 11	03 31	.848	5731	"	6	00 15	00 40			9787.728
218	"	28	20 56	21 21	43.590	5809	Jul.	2	23 32	23 52			813.696
226	"	30	23 58	00 23	44.716	5811	"	3	01 01	01 21			.758
						5815	"	3	02 50	03 10			.833
823	May	20	02 24	02 44	8308.815	5821	"	3	23 24	23 44			14.690
839	"	21	02 14	02 34	09.808	5826	"	4	01 46	02 06			.789
1111	Jul.	15	23 05	23 30	65.679	5829	"	4	02 56	03 11			.836
1119	"	16	02 43	03 03	.828	5837	"	5	00 22	00 28			15.726
1126	"	16	23 20	23 40	66.688	5842	"	5	22 36	22 56			16.657
1234	Aug.	11	01 12	01 37	91.767	5852	"	6	02 57	03 17			.838
1239	"	11	20 48	21 03	92.581	5940	"	29	21 31	21 56			40.614
1249	"	12	01 37	01 57	.783	5943	"	30	21 23	21 43			41.606
1266	"	17	20 21	20 36	98.561	5947	"	30	22 42	23 02			.661
1275	"	18	00 45	01 05	.747	5954	"	31	02 36	03 01			.825
	KA	64	01 18	01 38	.770	5958	"	31	21 09	21 29			9842.597
1279	Aug.	18	02 45	03 10	.832	5962	"	31	22 24	22 44			.649
1283	"	18	20 17	20 32	99.558	5969	Aug.	1	02 18	02 38			.811
1294	"	19	01 18	01 30	.767	5973	"	1	21 04	21 24			43.593
						5976	"	1	22 46	23 06			.664
1981	1937	June	4	00 25	00 45	8688.733	"	2	02 21	02 41			.813
1995	"	5	00 40	01 00	8689.743								
1998	"	5	02 43	03 03	.828	6840	1941						243+
2009	"	7	23 09	23 29	92.680	6848	June	24	02 15	02 40			0169.811
2014	"	9	01 10	01 35	93.765	6853	"	25	00 37	01 02			70.743
2022	"	11	01 28	01 48	95.776	6859	"	25	02 47	03 07			.831
2034	"	11	23 29	23 49	96.694	6862	"	25	23 01	23 26			71.676
2038	"	12	01 55	02 10	.793	6863	"	26	00 48	01 08			.749
2112	"	30	23 32	23 47	715.694		"	26	01 10	01 20			.760
						6866	KA	64	01 22	01 32			
3250	1938	June	22	00 20	00 40	9071.729	June	26	02 52	03 10			.834
3261	"	23	00 07	00 27	72.720	6874	"	27	00 08	00 26			72.726
3273	"	23	22 18	22 38	73.645	6876	"	27	01 15	01 25			0172.765
3276	"	24	00 15	00 35	.726	6925	KA	64	01 28	01 38			
3289	"	26	23 51	00 21	76.713	6933	Jul.	21	21 19	21 49			97.607
3304	"	28	00 02	00 22	77.717	6935	"	22	01 32	02 02			.783
3317	"	28	23 26	23 46	78.692	6939	"	23	21 22	21 52			99.609
3330	Jul.	2	03 04	03 16	81.841	6942	"	24	00 22	00 46			.732
						6946	"	24	02 31	02 47			.819
4694	1939	Jul.	18	22 49	23 09	63.666	"	24	21 18	21 42			0200.604
4704	"	19	22 54	23 14	64.669	6954	"	25	01 19	01 49			.774
4796	Aug.	11	22 10	22 30	87.639	7862	1942						
							June	9	01 44	01 58			0519.785

19^h 51.9^m +18° 41'

1947				243+	1950				
13348	May	23	02 51 03 03	2328.831	17433	July	12 23 37 23 45	3475.695	
13349	"	23	03 04 03 10	.838	17435	"	13 00 14 00 19	.714	
13403	June	18	00 10 00 20	354.719	17436	"	13 00 25 00 31	.728	
13404	"	18	00 24 00 44	.732	17439	"	13 01 23 01 31	.769	
13410	"	18	02 00 02 10	.795	17442	"	13 02 01 02 07	.794	
13438	"	19	03 03 03 07	55.837	17444	"	13 02 34 02 40	.817	
13471	"	21	01 43 02 43	57.801	17446	"	13 03 02 02 08	.837	
13472	"	21	02 44 02 48	.824	17453	"	13 22 15 22 19	76.637	
13501	"	24	02 46 02 56	60.827	17457	"	13 23 19 23 23	.682	
13506	"	25	00 06 00 16	61.716	17462	"	14 00 57 01 01	.749	
13515	"	25	02 16 02 26	.806	17469	"	14 02 57 03 01	.833	
					17480	"	14 23 19 23 22	77.681	
14516	June	30	23 57 00 03	2733.708	17487	"	15 01 28 01 32	.771	
14520	Jul.	1	00 51 00 57	.746	17494	"	15 03 11 03 15	.842	
14528	"	1	02 41 02 47	.822	17511	"	18 22 34 22 38	81.650	
14539	"	1	23 38 23 44	34.695	17513	"	18 23 22 23 26	.683	
14544	"	2	00 49 00 55	.744	17517	"	19 00 21 00 27	.725	
14550	"	2	02 13 02 19	.803	17522	"	19 01 28 01 32	.771	
14568	"	7	01 08 01 14	39.758	17526	"	19 02 00 02 04	.793	
14574	"	7	02 37 02 43	.819	17530	"	20 21 55 21 59	83.623	
14588	"	8	00 18 00 24	40.723	17534	"	20 23 10 23 14	.675	
14597	"	8	02 26 02 32	.812	17542	"	21 01 14 01 18	.761	
14620	"	9	03 03 03 09	41.838	17551	"	21 03 13 03 17	.844	
14621	"	9	03 11 03 15	.842	17616	Aug.	10 21 47 21 55	504.619	
14639	"	10	01 45 01 49	42.783	17621	"	10 23 52 00 00	.706	
14645	"	10	03 21 03 25	.849	17628	"	11 20 49 20 53	05.577	
14729	Aug.	3	22 59 23 03	67.667	17631	"	11 22 17 22 23	.639	
14730	"	3	23 08 23 12	.674	17636	"	12 00 19 00 23	.723	
14736	"	4	00 25 00 29	.727	17640	"	12 01 38 01 42	.778	
14744	"	4	02 22 02 28	.809					
14748	"	5	22 55 23 01	69.665	18168	1951	June	26 00 54 00 59	823.748
14759	"	6	22 34 22 37	70.650	18274	July	30 22 26 22 34	58.646	
	KA 89	22	41 22 44	.655	18281	"	31 21 53 21 57	59.622	
14768	Aug.	7	00 57 01 00	.749	18285	"	31 23 41 23 45	.697	
14777	"	7	03 18 03 21	.847	18291	Aug.	1 00 45 00 51	.742	
					18298	"	1 22 41 22 45	60.655	
16030	June	1	01 58 02 02	3068.792	18301	"	1 23 18 23 22	.681	
16034	"	1	02 57 03 01	.833	18309	"	2 01 12 01 16	.760	
16058	"	2	01 39 01 42	69.778	18312	"	2 01 57 02 01	.791	
16064	"	2	02 59 03 02	.833					
16178	"	27	23 15 23 17	95.678	19153	1952	June	17 00 21 00 25	4180.724
16184	"	28	01 08 01 10	.756	19157	"	17 01 35 01 39	.776	
16191	"	28	02 23 02 25	.808	19160	"	17 02 22 02 26	.808	
16195	"	28	03 05 03 07	.838	19162	"	17 02 44 02 50	.824	
16205	"	29	23 09 23 13	96.674	19172	"	18 00 09 00 12	81.716	
16209	"	29	00 15 00 21	.721	19177	"	18 01 42 01 45	.780	
16211	"	29	00 53 00 57	.747	19183	"	18 03 05 03 08	.838	
16214	"	29	01 35 01 41	.776	19199	"	20 00 32 00 35	83.732	
16218	"	29	23 36 23 40	97.693	19203	"	20 02 21 02 24	.807	
16223	"	30	00 44 00 50	.741	19206	"	20 03 13 03 15	.843	
16228	"	30	02 01 02 07	.794					
					20084	1953	June	10 02 28 02 31	538.812
17431	1950	July	12 22 52 23 00	3475.664	20087	"	10 03 16 03 18	.845	

1953				243+	1956				243+
20104	June 11	01 57	01 59	39.789	23211	July 3	23 13	23 19	658.678
	KA 89	02 03	02 05	.794	23222	" 6	23 09	23 13	61.674
20232	July 13	23 12	23 16	72.676	23297	" 30	22 12	22 15	85.634
20235	" 14	00 11	00 15	.717	23307	" 31	01 46	01 49	.783
20237	" 14	01 02	01 06	.753	23317	Aug. 1	22 59	23 02	87.667
20244	" 14	23 14	23 18	73.638	23324	KA 61	23 08	23 11	.674
20248	" 15	00 29	00 33	.730	23334	Aug. 2	02 03	02 06	.795
20252	" 15	01 51	01 54	.786	23338	" 3	00 06	00 09	88.713
20259	" 15	22 38	22 42	74.653	23838	" 3	02 03	02 06	.795
20263	" 16	00 14	00 17	.719	23842	1957			
20264	" 16	00 21	00 25	.724	23876	June 26	00 42	00 46	6015.738
20270	" 16	02 39	02 43	.820	23880	" 26	02 02	02 06	.794
20273	" 16	03 10	03 14	.842	23884	July 22	23 42	23 53	42.702
20279	" 16	22 57	23 01	75.666	23892	" 23	01 58	02 02	.791
20283	" 17	00 30	00 34	.731	23901	" 23	02 56	03 00	.831
20287	" 17	02 03	02 05	.794	23911	" 23	22 52	22 56	43.662
20361	Aug. 5	21 02	21 06	95.586	23918	" 24	02 22	02 26	.808
20375	" 6	21 03	21 11	96.588	23922	" 24	23 07	23 13	44.674
20377	" 6	21 49	21 59	.621	23924	" 25	01 12	01 16	.759
20383	" 7	00 35	00 41	.735		" 25	02 28	02 32	.812
20387	" 7	21 26	21 34	97.604	24776	" 25	02 58	03 02	.833
20389	" 7	22 56	23 04	.666	24781	1959			
20390	" 7	23 20	23 28	.684	24800	June 30	23 54	23 58	6750.706
	1954				24820	July 1	01 18	01 22	.764
21397	July 5	22 44	22 48	4929.657	24820	" 3	03 12	03 16	52.843
21409	" 6	02 49	02 53	.827		" 4	02 59	03 02	53.833
21414	" 6	03 28	03 30	.854	25201	1960			
21428	" 7	23 13	23 17	31.677	25206	June 28	01 48	01 52	7113.785
21440	" 8	03 11	03 15	.842	25226	" 28	03 01	03 05	.835
21533	" 28	22 50	22 54	52.661	25229	" 30	02 12	02 16	15.801
21536	" 29	00 02	00 13	.715	25236	" 30	02 53	02 57	.830
21541	" 29	01 43	01 49	.782	25732	" 30	23 33	23 39	16.692
	1955					1961			
22353	June 15	02 52	02 56	5273.829	26212	July 11	23 14	23 18	492.678
22367	" 16	00 40	00 44	74.738	26217	1962			
22370	" 16	01 40	01 44	.779	26230	July 4	01 45	01 48	849.782
22382	" 17	00 57	01 01	75.749	26236	" 4	02 45	02 48	.824
22387	" 17	02 49	02 53	.827		" 5	01 16	01 20	50.762
22484	" 19	01 54	01 58	307.789	26839	" 5	02 40	02 44	.821
22489	July 19	03 00	03 04	.835	26843	1963			
22496	" 19	23 06	23 10	08.672	26861	June 18	02 10	02 14	8198.800
22500	" 20	00 52	00 55	.745	26866	" 18	03 00	03 04	.835
22505	" 20	02 05	02 09	.796		" 19	02 13	02 16	99.802
	KA 89	02 14	02 18	.803	27538	" 19	03 10	03 12	.841
22507	July 20	02 45	02 48	.824	27540	1964			
22510	" 20	03 10	03 13	.841	27548	July 6	22 30	22 34	8583.647
22513	" 20	03 28	03 30	.853	27554	" 6	23 15	23 19	.678
22517	" 20	22 17	22 20	09.638	27557	" 9	00 24	00 28	85.726
22523	" 21	00 15	00 18	5309.720	27563	" 9	22 58	00 02	86.709
22537	" 21	03 28	03 30	.854	27570	" 10	00 40	00 44	.738
22547	" 22	01 29	01 32	10.772		" 11	00 50	00 25	87.744
						" 11	02 41	02 45	.822
					31269	1968			
						June 21	02 25	02 29	0028.810

	1969				244+		
32214	June	17	02	35	02	39	389.817
32237	"	21	02	35	02	39	93.817

20^h 03^m.8 -22° 02'

	1946				243+
12290	June 29	02 31	02 45	2000.818	
12336	July 3	02 17	02 31	04.808	
12353	" 4	02 07	02 23	05.802	
	Area 136	02 27	02 43	.816	
12374	July 5	02 12	02 30	06.806	
	1947				
13414	June 18	02 58	03 04	2354.834	
	1948				
14575	July 7	02 48	03 06	739.831	
14598	" 8	02 38	02 56	40.824	
14599	" 8	02 57	03 00	.832	
14740	Aug. 4	01 09	01 25	67.762	
14741	" 4	01 27	01 33	.771	
	Area 136	01 36	01 42	.777	
14771	Aug. 7	01 20	01 36	770.769	
	1955				
22486	July 19	02 14	02 30	5307.807	
22533	" 21	02 29	02 45	09.817	
22549	" 22	02 15	02 29	10.807	
	1956				
23309	July 31	02 15	02 29	685.807	
23340	Aug. 3	02 18	02 34	88.810	
	1957				
23882	July 23	02 12	02 28	6042.805	
23903	" 24	02 39	02 55	43.824	
	1969				
32404	Aug. 12	00 25	00 40	244+ 0445.731	
32407	" 12	01 15	01 30	.763	

20^h 32.2^m +07° 16'

DAO Plates 19972-23606
returned to DAO June 23, 1981
HSH

1931				242+	1934				
19972	Sept. 22	22 30	22 50	6607.778	23254	Aug. 9	22 56	23 21	.797
20092	Oct. 13	20 09	20 49	6628.687	23260	" 9	01 20	01 45	.897
20096	" 13	23 07	23 47	.810	23261	" 9	01 53	02 18	.920
	1932				23263	" 9	02 40	03 05	.953
20549	July 26	02 40	03 00	6915.951	23264	" 9	03 06	03 28	.970
20563	Aug. 1	01 48	02 13	21.917	23304	" 14	21 10	21 32	64:723
20579	" 3	02 18	02 43	23.938	23305	" 14	21 36	22 01	.742
20590	" 4	01 20	01 45	24.897	23309	" 14	23 42	00 02	.828
20592	" 4	02 32	02 57	.947	23312	" 14	00 38	00 53	.865
20606	" 5	02 03	02 28	25.928	23313	" 14	00 57	01 22	.882
20682	" 26	23 17	23 42	46.812	23316	" 14	01 49	02 09	.916
20689	" 26	01 41	02 06	.912	23317	" 14	02 12	02 37	.933
	1933				23319	" 14	02 58	03 23	.965
21378	July 18	23 07	23 37	7272.807	23320	" 14	03 24	03 44	.982
21382	" 18	01 34	02 04	.909	23398	Sept. 3	20 35	21 05	7685.701
21392	" 19	00 38	00 55	73.865	23404	" 3	23 03	00 03	.815
21394	" 19	01 56	02 24	.924	23523	Oct. 2	19 59	20 24	7713.674
21401	" 20	23 29	23 54	7274.821	23525	" 2	20 47	21 17	.710
21408	" 20	01 51	02 11	.917	23528	" 3	19 00	19 25	14.633
	KA 112	02 17	02 37	.936	23531	KA 89	21 05	21 30	.720
21413	July 21	22 45	23 10	75.790		Clus	21 36	22 01	.742
21417	" 21	00 53	01 13	.877	23537	Oct. 4	19 11	19 36	15.641
21423	" 21	02 21	02 35	.936	23540	" 4	20 40	21 05	.703
21520	Aug. 21	23 43	00 08	7306.830	23541	" 4	21 13	21 48	.729
21522	" 21	00 50	01 05	.874	23542	" 4	21 55	22 25	.757
	KA 112	01 11	01 26	.888	23544	" 4	22 52	23 22	.807
21524	Aug. 21	01 50	02 15	.918	23546	" 4	23 47	00 17	.835
21526	" 21	02 43	03 03	.954	23606	" 17	20 48	21 13	7728.708
21540	" 22	23 47	00 12	07.836		1935			
21543	" 22	00 59	01 19	.881	DD070	July 26	00 44	01 29	8009.754
21545	" 22	01 48	02 13	.917	71	" 26	01 45	02 15	.795
21548	" 22	02 54	03 19	.963	106	Aug. 2	00 56	01 21	16.756
21558	" 23	23 56	00 19	7308.839	109	" 2	02 27	02 52	.818
21563	" 23	01 48	02 13	.917	175	" 23	00 33	00 53	37.738
21574	" 24	23 19	23 44	09.814	177	" 23	01 46	02 06	.789
	KA 112	23 59	00 24	.842	180	" 23	03 06	03 26	.844
21578	Aug. 24	01 46	02 11	.915	194	" 24	00 32	00 52	38.738
21580	" 24	02 35	03 00	.950	197	" 24	01 58	02 13	.794
	1934				200	" 24	02 43	03 03	.828
23076	June 8	02 21	02 38	7597.937	220	" 28	21 59	22 14	43.630
23174	July 19	02 10	02 35	7638.932	228	" 30	00 52	01 01	44.747
23180	" 20	23 35	00 00	39.824		1936			
23182	" 20	00 35	01 05	.868	841	May 21	03 14	03 29	8309.849
23224	Aug. 2	01 15	01 40	52.894	1117	July 16	01 54	02 19	65.796
23238	" 8	22 18	22 43	58.771	1120	" 16	03 08	03 30	.847
23241	" 8	23 51	23 56	.829	1130	" 16	17 02	00 25	66.800
23242	" 8	00 17	00 42	.853	1132	" 17	02 44	03 09	8366.831
23245	" 8	01 30	01 55	.904	1133	" 17	03 10	03 30	.847
23246	" 8	02 00	02 25	.925	1232	Aug. 11	00 24	00 49	91.733
23248	" 8	02 52	03 15	.960	1235	" 11	01 53	02 28	.795
23249	" 8	03 18	03 38	.978	1237	" 11	03 09	03 44	.851
23251	" 9	21 25	21 50	59.734	1248	" 12	01 04	01 29	92.761

20^h 51.2^m -12° 42'

	1936				242+		1948			243+
1245	Aug. 12	00 01	00 26	8392.718	14600	July 8	03 04	03 16	.840	
1273	" 17	23 41	24 06	98.704	14616	" 9	01 59	02 13	41.796	
	1940				14618	" 9	02 35	02 49	.821	
5827	July 4	12 02	02 37	9814.808	14644	" 10	03 05	03 17	42.841	
5849	" 6	01 58	02 23	16.799	14738	Aug. 4	00 45	01 01	67.745	
5950	" 31	00 36	01 06	41.744	14742	" 4	01 45	01 59	.786	
5951	" 31	01 08	01 38	.766		1948				
5952	" 31	01 39	02 09	.788	14765	Aug. 6	23 50	00 02	2770.706	
5967	Aug. 1	01 01	01 31	42.761		KAL36	00 06	00 18	.717	
5968	" 1	01 32	02 07	.785	14772	Aug. 7	01 40	01 54	.783	
5982	" 2	01 41	02 16	43.790		1949				
	1941			243+	16230	June 30	02 18	02 34	3097.810	
6878	June 27	02 13	02 59	0172.817	16231	" 30	02 37	02 55	.824	
6952	July 25	00 07	00 51	0200.728		1950				
	1942				17467	July 14	02 23	02 41	3476.814	
7929	July 9	01 23	01 43	0549.793	17490	" 15	02 15	02 23	77.808	
7931	" 9	02 14	02 34	.808	17491	" 15	02 35	02 51	.822	
7933	" 9	03 00	03 20	.840	17545	" 21	01 59	02 15	83.797	
7968	" 13	02 34	02 54	53.822	17638	Aug. 12	01 05	01 21	505.759	
7969	" 13	02 54	03 12	.835		1955				
7981	" 14	01 10	01 30	54.764	22487	July 19	02 34	02 48	5307.820	
7983	" 14	01 56	02 15	.795	22534	" 21	02 48	03 00	09.829	
7985	" 14	02 38	02 48	.822	22550	" 22	02 32	02 46	10.819	
7998	" 15	01 03	01 21	55.765	23308	" 31	01 55	02 09	685.793	
7999	" 15	01 23	01 41	.772		1957				
8001	" 15	02 13	02 31	.807	23883	July 23	02 31	02 51	6042.820	
8002	" 15	02 31	02 49	.819		1959				
8021	" 16	01 00	01 16	56.756	24801	July 3	03 21	02 31	6752.851	
8112	Aug. 13	23 17	23 57	85.692		1964				
8113	" 13	23 59	00 23	.716	27572	July 11	03 05	03 19	8587.842	
8122	" 14-5	23 47	00 17	86.710						
	1943									
9016	July 27	01 20	01 42	0932.772						
9037	" 28	01 40	02 00	33.785						
	1946									
12267	June 28	02 14	02 30	1999.807						
12269	" 28	02 40	02 56	.825						
12289	" 29	02 08	02 26	2000.803						
12291	" 29	02 50	03 06	.832						
12335	July 3	01 56	02 12	2004.794						
12338	" 3	03 01	03 17	.840						
12352	" 4	01 45	02 01	05.787						
12373	" 5	01 32	01 48	06.778						
	Area 136	01 52	02 08	.792						
	1947									
13517	June 25	02 42	03 01	2361.828						
	1948									
14526	July 1	02 13	02 29	2733.806						
14529	" 1	02 53	02 07	.833						
14551	" 2	02 28	02 48	34.818						
14572	" 7	02 09	02 23	39.803						
14576	" 7	03 09	03 21	.844						
14594	" 8	01 44	01 58	40.785						

20^h 59.^m6 +16° 02'

	1931				242+				
20014	Oct.	1			6615.806	}	Taken to DAO June 23 '81 by HSH		
20015	"	1			.844				
	1948				243+				
14640	July	10	01 56	02 26	2741.799				
	1950								
17527	July	19	02 10	02 36	3481.808				
17550	"	21	02 40	03 08	83.829				
	1951								
18310	Aug.	2	01 19	01 49	3860.774				

21^h 28.1^m +12° 00'

Year	Month	Day	Hour	Min	Sec	Mag	Year	Month	Day	Hour	Min	Sec	Mag		
1932	Aug.	24	23	48	23	58	242+	July	20	03	22	03	22		
20652	"	24	01	20	01	30	6944.828	"	21	02	13	02	13		
20657	"	24	02	10	02	25	.889	22512	July	21	02	15	02	18	
20659	"	24	02	53	03	08	.925	22530	"	21	02	15	02	18	
20661	"	24	03	12	03	27	.958	22531	July	21	02	15	02	18	
20662	"	24	03	12	03	27	.972	32236	1969	June	21	02	20	02	24
20676	"	26	22	04	22	14	46.756	32398B	Aug.	11	22	19	22	26	
20683	"	26	23	49	23	59	.829	32399V	"	11	22	33	22	40	
20690	"	26	02	13	02	23	.929	32400B	"	11	22	49	22	56	
20692	"	26	02	49	02	57	.954	32401V	"	11	23	00	23	07	
20694	"	26	03	25	03	37	.980	32402B	"	11	23	18	23	22	
21422	July	21	02	05	02	12	7275.923	32403V	"	11	23	26	23	34	
21528	Aug.	21	03	31	03	41	306.983	32405V	"	12	00	51	00	58	
21529	"	21	03	44	03	56	.993	32406B	"	12	01	01	01	08	
21541	"	22	00	24	00	34	07.853	32408B	"	12	01	43	01	50	
1933	Aug.	22	02	20	02	30	7307.934	32409V	"	12	02	05	02	12	
21546	"	22	03	26	03	36	.980	32410B	"	12	02	16	02	23	
21549	"	22	03	51	03	56	.995	32411V	"	12	02	27	02	34	
21550	"	23	02	25	02	35	08.938	32412B	"	12	02	37	02	44	
21564	"	23	03	46	03	56	.994	32413V	"	12	02	47	02	54	
21568	"	24	00	50	01	00	09.872	32414B	"	12	02	57	03	03	
21576	1935	Aug.	23	03	37	03	47	8037.862	32415V	"	12	03	06	03	13
181	"	24	02	18	02	26	38.807	32416B	"	12	03	17	03	24	
198	"	24	03	36	03	41	.860	32417V	"	12	03	27	03	33	
202	1936	Aug.	11	03	48	04	03	391.872	32418B	"	12	22	28	22	37
1238	"	12	04	01	04	11	92.879	32419V	"	12	22	39	22	50	
1256	"	18	04	04	04	16	98.882	32420B	"	12	22	53	23	02	
1282	1938	June	22	03	18	03	23	9071.847	32421V	"	12	23	07	23	17
3256	"	24	03	08	03	10	73.840	32422B	"	12	23	21	23	29	
3281	"	27	03	00	03	10	76.837	32423V	"	12	23	31	23	42	
3294	"	29	02	58	03	28	78.843	32424B	"	12	23	45	23	55	
3324	July	2	03	28	03	32	81.855	32425V	"	12-13	23	56	00	08	
3332	1939	July	18	02	17	02	25	462.806	32426B	"	13	00	15	00	23
4689	"	18	02	33	03	21	.831	32427V	"	13	00	33	00	45	
4690	1950	July	13	03	14	03	18	75.844	32428B	"	13	00	56	01	04
17447	"	14	03	07	03	08	76.839	32429V	"	13	01	07	01	19	
17470	"	15	03	20	03	20	77.847	32430B	"	13	01	20	01	29	
17495	"	19	01	36	01	37	81.775	32431V	"	13	01	31	01	43	
17523	"	21	02	32	02	33	83.814	32432B	"	13	01	52	02	02	
17548	"	21	02	36	02	36	.816	32433V	"	13	02	06	02	18	
17549	Aug.	11	00	30	00	30	504.729	32434B	"	13	02	23	02	32	
17624	Aug.	11	00	33	00	36	.732	32435V	"	13	02	32	02	49	
17625	1951	Aug.	2	01	52	01	52	860.786	32436B	"	13	02	51	03	00
18311	1954	July	6	03	14	03	15	929.844	32437V	"	13	03	02	03	14
21412	1955	July	20	03	17	03	20	5308.846	32438B	"	13	03	19	03	27
22511	July	20	03	17	03	20	5308.846	32439V	"	13	03	34	03	46	
									"	13	22	17	22	25	
									"	13	22	29	22	39	
									"	13	22	44	22	52	
									"	13	22	55	23	05	
									"	13	23	10	23	18	
									"	13	23	28	23	38	
									"	13	23	41	23	49	
									"	13-14	23	51	00	01	

244+
0393.809
0445.641

446

447

1969						244+	
32450B	Aug.	14	00	05	00	13	447.715
32451V	"	14	00	16	00	26	.723
32452B	"	14	00	28	00	36	.731
32453V	"	14	00	39	00	49	.739
32454B	"	14	01	09	01	19	.760
32455V	"	14	01	23	01	33	.769
32456B	"	14	01	37	01	45	.778
32457V	"	14	01	48	01	58	.787
32458B	"	14	02	04	02	12	.797
32459V	"	14	02	15	02	25	.806
32460B	"	14	02	30	02	38	.815
32461V	"	14	02	41	02	51	.824
32462B	"	14	02	57	03	04	.834
32463V	"	14	03	07	03	16	.841
32464B	"	14	03	18	03	25	.848
32465V	"	14	03	28	03	37	.856

1970							
33336B	June	30	02	10	02	21	0767.803
33347B	July	1	01	44	01	53	68.784
33348V	"	1	01	58	02	09	.794
33352B	"	1	03	11	03	19	.844
33356B	"	3	01	38	01	47	70.779
33357V	"	3	01	51	02	02	.789
33358B	"	3	02	04	02	13	.798
33359B	"	3	02	29	02	38	.815
33360V*	"	3	02	16	02	27	Precedes.806
33361V	"	3	02	42	02	51	33359.824

1971							
34861B	July	20	00	40	00	47	1152.739
34865B	"	20	01	59	02	07	.794
34866B	"	20	02	28	02	36	.814
34869B	"	20	03	03	03	11	.838
34885B	"	21	00	38	00	46	53.737
34890	"	21	02	07	02	15	.799
34892	"	21	02	25	02	33	.812
34894	"	21	03	06	03	14	.841
34905V	"	22	00	01	00	09	54.711
34906B	"	22	00	24	00	32	.728
34907B	"	22	00	35	00	43	.736
34908B	"	22	00	46	00	54	.743
34909B	"	22	00	57	01	05	.751
34911B	"	22	01	38	01	46	.779
34912B	"	22	01	58	02	06	.793
34915B	"	22	02	30	02	38	.815
34916B	"	22	02	41	02	49	.823
34917B	"	22	02	51	02	59	.830
34918B	"	22	03	03	03	11	.838

21^h 31^m.4 -01° 00'

Year	Month	Day	Hour	Min	Sec	Mag	RA	Dec	Mag	
1931	Sept.	23				24.2+				
19973	"	23				6607.800	21396	July 19	02 49 02 59 .954	
19974	"	23				.823	21402	" 20	00 08 00 18 74.842	
19976	"	23				.868	21407	" 20	01 34 01 42 .901	
20013	Oct.	1				15.770	21409	" 20	02 44 02 50 .949	
20016	"	1				.886	21415	" 21	23 53 00 03 75.832	
20091	"	14				28.644	21421	" 21	01 44 01 54 .909	
20093	"	14				.719	21424	" 21	02 43 02 51 .950	
20094	"	14				.753	21519	Aug. 21	23 25 23 35 7306.813	
20095	"	14				.776	21521	" 21	00 33 00 43 .860	
20097	"	14				.845	21523	" 21	01 33 01 43 .901	
1932	July	26	00	44	00	55	6915.868	21525	" 21	02 23 03 33 .936
20546	"	26	01	16	01	31	.892	21527	" 21	03 11 03 23 .970
20547	"	26						21539	" 22	23 27 23 37 7.814
20548	"	26						21542	" 22	00 43 00 51 .866
KAl13	July	26	03	07	03	16	.967	21544	" 22	01 29 01 39 .917
20550	Aug.	1	00	12	00	27	21.847	21547	" 22	03 37 02 47 .946
20562	"	1	01	05	01	16	.882	21557	" 23	23 35 23 45 08.820
20564	"	1	02	22	02	32	.936	21562	" 23	
20567	"	1	03	13	03	23	.971	21565	KAl13	
20577	"	3	00	49	00	55	23.869	21566	Aug. 23	02 43 02 53 .950
20578	"	3	01	58	02	08	.919	21567	" 23	02 59 03 14 .963
20581	"	3	03	07	03	17	.967	21567	" 23	03 21 03 38 .979
20582	"	3	03	19	03	24	.974	21573	" 24	22 58 23 08 09.794
20586	"	4	23	10	23	20	24.802	21577	" 24	
20588	"	4	00	29	00	37	.856	21579	KAl13	
20589	"	4	00	57	01	06	.876	21579	Aug. 24	02 18 02 28 .933
20591	"	4						21581	" 24	03 06 03 16 .966
KAl13	Aug.	4	03	03	03	13	6924.964	21582	" 24	03 18 03 28 .974
20593	"	4	03	15	03	25	.972	21583	" 24	03 37 03 47 .988
20594	"	5	23	43	23	53	25.825	21584	" 24	03 51 04 01 .997
20598	"	5	00	39	00	49	.864	23077	1934	
20603	"	5	01	06	01	16	.883	23172	June 9	7597.949
20607	"	5	02	30	02	45	.943	23175	July 20	638.905
20609	"	5	03	14	03	24	.972	23181	" 20	.952
20646	"	24	22	07	22	17	44.758	23181	" 21	39.844
20653	"	24	00	10	00	20	.844	23183	" 21	.889
20656	"	24	01	02	01	12	.880	23184	" 21	.896
20658	"	24	01	40	02	00	.910	23185	" 21	.942
20660	"	24	02	32	02	47	.944	23186	" 21	.949
20677	"	26	22	25	22	35	46.771	23187	" 21	.958
20684	"	26	00	06	00	16	.841	23223	Aug. 3	52.878
20686	"	26	00	42	00	52	.866	23225	" 3	.963
20688	"	26						23226	" 3	.973
KAl13	Aug.	26	03	04	03	14	.964	23244	" 9	58.881
20693	1933	July	18	23	47	00	7272.829	23247	" 9	.942
21379	"	19	00	16	00	28	73.845	23258	" 10	59.865
21393	"	19	01	22	01	39	.896	23259	" 10	.883
21395	"	19	02	36	02	46	.945	23262	" 10	.937
								23265	" 10	.985
								23310	" 14	00 07 00 17 64.842
								23314	" 14	01 27 01 29 .894
								23318	" 14	02 43 02 51 .950
								23321	" 14	03 47 03 54 .993

23400	1934	Sept.	4						242+	85.750	7947	1942	July	10	03	15	03	19	243+	0550.845
23405	"	"	4							.847	7970	"	"	13	03	14	03	18		53.844
23521	Oct.	"	3						7713.635	8003	8003	"	"	15	02	53	02	57		55.830
23526	"	"	3						.729	8111	8111	Aug.	"	13	23	04	23	12		85.672
23530	"	"	4						14.704			1943								
23539	"	"	5						15.687	8826	8826	June	"	5	03	17	03	21		0880.847
23543	"	"	5						.778	8908	8908	"	"	24	02	33	02	37		99.816
23545	"	"	5						.814	8934	8934	"	"	25	03	11	03	13		0900.842
23547	"	"	5						.852	9015	9015	July	"	27	01	08	01	12		32.757
23593	"	"	17						27.759	9039	9039	"	"	28	02	45	02	47		33.824
23599	"	"	18						28.614			1944								
	1935										10139	June	"	18	02	13	02	17		1259.802
108	Aug.	"	2	02	11	02	21		8016.803	10140	10140	"	"	18	02	18	02	25		.807
179	"	"	23	02	49	02	55		37.828			1946								
199	"	"	24	02	32	02	37		38.815	12054	12054	May	"	29	03	15	03	18		1969.844
221	"	"	28	22	24	22	29		43.643	12078	12078	"	"	30	03	15	03	18		70.844
227	"	"	30	00	34	00	44		44.736	12128	12128	June	"	5	03	15	03	18		76.844
	1936									12268	12268	"	"	28	02	32	02	36		99.815
1118	July	"	16	02	26	02	34		8365.812	12292	12292	"	"	29	03	09	03	13		2000.800
1131	"	"	17	02	28	02	38		66.815	12337	12337	July	"	3	02	35	02	45		04.819
1236	Aug.	"	11	02	31	02	46		91.818	Area 113	Area 113	Area 113	Area 113	02	48	02	58		.828	
1254	"	"	12	03	11	03	21		92.844	12355	12355	July	"	4	03	02	03	07		05.836
1281	"	"	18	03	49	03	59		98.871	12376	12376	"	"	5	02	51	02	59		06.830
1291	"	"	19	00	03	00	18		99.715			1947								
	1937										13413	June	"	18	02	50	02	53		2354.828
1986	June	"	4	03	20	03	25		8688.849	13474	13474	"	"	21	03	02	03	05		57.836
2000	"	"	5	03	31	03	35		89.856	13516	13516	"	"	25	02	33	02	37		61.816
2018	"	"	9	03	13	03	23		93.846			1948								
2041	"	"	12	03	13	03	17		96.844	14527	14527	July	"	1	02	33	02	37		2733.816
2117	July	"	1	02	22	02	30		8715.810	14546	14546	"	"	2	01	14	01	18		34.761
	1938									14553	14553	"	"	2	03	15	03	16		.844
3254	June	"	22	02	52	03	02		9071.831	14573	14573	"	"	7	02	27	02	30		39.812
3266	"	"	23	03	08	03	13		72.841	14596	14596	"	"	8	02	18	02	21		2740.806
3280	"	"	24	02	57	03	03		73.834	14619	14619	"	"	9	02	54	02	57		41.831
3293	"	"	27	02	47	02	57		76.828	14642	14642	"	"	10	02	38	02	39		42.818
3309	"	"	28	03	12	03	18		77.844	14643	14643	"	"	10	02	41	03	51		.827
3322	"	"	29	02	32	02	38		78.816	14739	14739	Aug.	"	4	01	04	01	06		67.753
3331	July	"	2	03	20	03	25		81.849	14749	14749	"	"	5	23	05	23	09		69.672
	1939									14770	14770	"	"	7	01	15	01	16		70.761
4813	Aug.	"	13	04	08	04	15		9489.883			1949								
4824	"	"	14	03	54	04	04		90.874	16035	16035	June	"	1	03	07	03	08		3068.839
4825	"	"	14	04	05	04	10		.881	16065	16065	"	"	2	03	08	03	09		69.840
	1940									16192	16192	"	"	28	02	30	02	31		95.813
5814	July	"	3	02	33	02	43		9813.819	16215	16215	"	"	29	01	46	01	50		96.783
5830	"	"	4	03	15	03	21		14.846	16229	16229	"	"	30	02	13	02	14		97.801
5850	"	"	6	02	29	02	39		16.815			1950								
5956	"	"	31	03	44	03	52		41.867	17441	17441	July	"	13	01	53	01	56		475.788
5971	Aug.	"	1	03	37	03	47		42.862	17471	17471	"	"	14	03	12	03	13		76.842
	1941									243+	17492	"	"	15	02	55	02	56		77.830
6842	June	"	24	02	58	03	08		0169.835	17524	17524	"	"	19	01	41	01	42		81.779
6931	July	"	22	00	52	01	06		97.749	17546	17546	"	"	21	02	18	02	19		83.805
6944	"	"	24	03	34	03	40		99.859	17626	17626	Aug.	"	11	00	40	00	42		504.737
6953	"	"	25	01	03	01	13		0200.756	17642	17642	"	"	12	01	54	01	55		05.788

	1951					243+
18287	Aug.	1	00 01	00 03		3859.710
18313	"	2	02 05	02 06		60.795
	1952					
19184	June	18	03 12	03 30		4181.842
19207	"	20	03 19	03 20		83.847
	1953					
20088	June	10	03 22	03 23		4538.849
20271	July	16	02 47	02 48		74.825
	1954					
21411	July	6	03 09	03 11		4929.840
21442	"	8	03 27	03 28		31.852
21540	"	29	01 33	01 34		52.772
	1955					
22488	July	19	02 49	02 49		5307.826
22508	"	20	02 53	02 53		08.828
22532	"	21	02 23	02 24		09.808
22551	"	22	02 52	02 52		10.828
	1956					
23310	July	31	02 35	02 36		685.816
23325	Aug.	2	02 12	02 12		87.800
23339	"	3	02 11	02 12		88.800
	1957					
23843	June	26	02 13	02 14		6015.800
23881	July	23	02 07	02 08		42.796
23902	"	24	02 33	02 34		43.814
23920	"	25	01 40	01 41		44.778
	1959					
24802	July	3	03 34	03 35		6752.857
24821	"	4	03 12	03 13		53.842
	1960					
25207	June	28	03 12	03 13		7113.842
25230	"	30	03 02	03 03		15.835
	1962					
26218	July	4	02 55	02 56		849.830
26238	"	5	03 09	03 09		50.840
	1963					
26844	June	18	03 11	03 12		8198.841
26867	"	19	03 16	03 17		99.845
	1964					
27550	July	9	00 54	00 54		8585.746
27573	"	11	03 25	03 26		87.851
	1968					244+
31245	June	20	02 16	02 18		0027.803
31248	"	20	03 09	03 11		27.840
31249	"	20	03 15	03 16		.844
31268	"	21	02 14	02 16		28.801
	1969					
32217	June	17	03 10	03 10		389.840
32240	"	21	03 06	03 06		93.837

21^h 38^m.1 -23° 22'

	1948				243+	
14745	Aug.	4	02 33	02 43	2767.819	
14746	"	4	02 44	02 48	.824	
	KA137		02 50	02 54	.828	
14773	Aug.	7	02 01	02 07	70.794	
14776	"	7	03 08	03 14	.841	
	1950					
17644	Aug.	12	02 45	02 57	3505.827	
	1951					
18316	Aug.	2	03 26	02 36	860.855	
	on plate		18315, 7492			
18317	Aug.	2	03 38	03 42	.861	
	1955					
22490	July	19	03 09	03 19	5307.843	
22509	"	20	02 58	03 04	08.834	
22535	"	21	03 04	03 08	09.838	
22552	"	22	03 00	03 04	10.835	
	1956					
23311	July	31	02 49	02 57	685.829	
23326	Aug.	2	02 35	02 49	87.821	
23341	"	3	02 41	02 53	5688.824	

23^h 04.^m7 +12° 31'

22406	1955				243+
23921	July	20	02 25	02 40	5308.814
	"	25	01 52	02 22	6044.796

23^h 06^m.2 -15° 51'

	1940				242+
5955	July 31	03 11	03 41	9841.851	
5970	Aug. 1	02 49	03 34	42.842	
	1941			243+	
6943	July 24	02 59	03 29	0199.843	
	1943				
9020	July 27	02 50	03 09	0932.833	
9040	" 28	02 56	03 16	33.838	
	1948				
14747	Aug. 4	03 00	03 18	2767.840	
14774	" 7	02 10	02 22	70.803	
	KA139	02 25	02 37	70.	
14775	Aug. 7	02 43	03 03	.828	
14778	" 7	03 25	03 45	.858	
	1950				
17643	Aug. 12	02 11	02 41	3505.810	
17645	" 12	03 01	03 31	.844	
	1951				
18314	Aug. 2	02 21	02 51	860.816	
	7099 plate 18317 on here too				
18315	Aug. 2	02 54	03 22	.839	
	1955				
22536	July 21	03 13	03 23	5309.846	
22553	" 22	03 13	03 25	10.846	
	1956				
23312	July 31	03 04	03 20	685.842	
23342	Aug. 3	03 03	03 21	88.842	
	1957				
23885	July 23	03 07	03 29	6042.845	
23904	" 24	03 01	03 27	43.843	