

EPHEMERIDES

6 22.9

6 23.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
193498	2000 YS ₁₇		6 22.9 266°58	0°2/22.9	18		488315	2016 UX ₇₉		6 22.9 216°01	4°4/22.9	18	
5 21	18 33.36	-22 36.0	1.870	2.743	13.0	20.4	5 21	18 28.32	-7 2.5	3.149	3.977	9.4	22.1
5 31	18 27.77	-22 58.8	1.785	2.729	9.6	20.2	5 31	18 23.13	-6 33.0	3.063	3.968	7.5	22.0
6 10	18 19.89	-23 23.8	1.722	2.715	5.6	19.9	6 10	18 16.78	-6 10.8	3.002	3.958	5.7	21.8
6 20	18 10.43	-23 49.0	1.685	2.700	1.3	19.6	6 20	18 9.69	-5 57.2	2.969	3.949	4.5	21.7
6 30	18 0.39	-24 12.2	1.675	2.685	3.1	19.7	6 30	18 2.37	-5 52.8	2.964	3.938	4.9	21.7
7 10	17 50.93	-24 32.3	1.692	2.670	7.5	19.9	7 10	17 55.40	-5 57.7	2.987	3.928	6.4	21.8
7 20	17 43.08	-24 49.1	1.734	2.655	11.5	20.1	7 20	17 49.28	-6 11.3	3.036	3.917	8.4	22.0
7 30	17 37.64	-25 3.6	1.798	2.640	14.9	20.3	7 30	17 44.43	-6 32.5	3.108	3.905	10.4	22.1
94167	2001 AU ₂₂		6 22.9 151°34	1°0/22.9	18		429494	2011 AB ₅₄		6 22.9 228°81	0°2/23.0	17	
5 21	18 31.27	-24 53.2	2.390	3.256	10.8	19.6	5 21	18 35.30	-22 3.2	1.871	2.740	13.2	22.6
5 31	18 25.71	-25 25.0	2.317	3.258	7.9	19.4	5 31	18 29.13	-22 17.4	1.788	2.731	9.7	22.4
6 10	18 18.44	-25 56.8	2.268	3.259	4.6	19.2	6 10	18 20.68	-22 33.7	1.728	2.720	5.7	22.1
6 20	18 10.05	-26 26.6	2.246	3.261	1.4	19.0	6 20	18 10.65	-22 50.0	1.695	2.710	1.4	21.8
6 30	18 1.35	-26 52.4	2.253	3.262	2.7	19.1	6 30	18 0.09	-23 4.8	1.689	2.698	3.1	21.9
7 10	17 53.20	-27 13.4	2.288	3.263	6.1	19.3	7 10	17 50.18	-23 17.4	1.709	2.687	7.5	22.2
7 20	17 46.34	-27 29.7	2.350	3.264	9.2	19.5	7 20	17 41.93	-23 27.9	1.755	2.674	11.5	22.4
7 30	17 41.37	-27 42.1	2.434	3.266	11.8	19.7	7 30	17 36.12	-23 37.4	1.823	2.662	14.9	22.6
97972	2000 QV ₁₅₁		6 22.9 109°39	2°5/23.0	18		91106	1998 HF ₂₉		6 22.9 159°56	0°5/22.9	18	
5 21	18 38.36	-28 56.1	1.464	2.341	15.7	19.4	5 21	18 34.28	-22 14.9	2.126	2.991	12.0	19.8
5 31	18 31.67	-29 9.8	1.406	2.351	11.6	19.2	5 31	18 27.95	-22 8.8	2.056	2.997	8.8	19.6
6 10	18 22.18	-29 18.1	1.370	2.361	7.1	19.0	6 10	18 19.75	-22 3.0	2.011	3.002	5.1	19.4
6 20	18 10.94	-29 17.6	1.358	2.370	2.9	18.7	6 20	18 10.39	-21 56.7	1.992	3.006	1.3	19.2
6 30	17 59.41	-29 6.8	1.372	2.379	4.4	18.9	6 30	18 0.79	-21 49.6	2.001	3.011	2.8	19.3
7 10	17 49.11	-28 47.0	1.411	2.388	8.8	19.1	7 10	17 51.91	-21 42.1	2.038	3.014	6.6	19.5
7 20	17 41.21	-28 21.3	1.474	2.397	13.0	19.4	7 20	17 44.55	-21 34.9	2.101	3.017	10.0	19.8
7 30	17 36.42	-27 53.5	1.557	2.405	16.5	19.7	7 30	17 39.30	-21 29.1	2.187	3.020	13.0	20.0
507901	2014 UZ ₁₁		6 22.9 272°68	3°2/22.9	17		500868	2013 JN ₃₉		6 22.9 21°64	2°4/22.8	17	
5 21	18 38.00	-29 35.9	1.465	2.343	15.6	22.0	5 21	18 32.47	-26 2.6	1.006	1.912	18.7	20.9
5 31	18 32.02	-30 0.5	1.376	2.320	11.8	21.7	5 31	18 28.22	-26 42.5	0.959	1.919	13.8	20.6
6 10	18 22.80	-30 20.8	1.307	2.297	7.5	21.4	6 10	18 20.55	-27 21.8	0.930	1.927	8.2	20.3
6 20	18 11.19	-30 32.1	1.263	2.274	3.6	21.1	6 20	18 10.63	-27 55.2	0.922	1.936	3.0	20.1
6 30	17 58.59	-30 30.8	1.244	2.250	5.0	21.2	6 30	18 0.27	-28 18.7	0.936	1.946	5.0	20.2
7 10	17 46.74	-30 16.6	1.249	2.225	9.8	21.4	7 10	17 51.36	-28 31.3	0.972	1.957	10.5	20.6
7 20	17 37.18	-29 52.3	1.278	2.201	14.6	21.6	7 20	17 45.32	-28 34.7	1.028	1.969	15.5	20.9
7 30	17 31.03	-29 22.6	1.326	2.176	18.8	21.8	7 30	17 43.00	-28 32.3	1.101	1.983	19.6	21.2
382792	2003 SM ₃₈₄		6 22.9 76°60	5°2/22.6	17		35205	1994 PS ₁₇		6 22.9 264°24	1°0/23.0	18	
5 21	18 35.97	-35 11.2	1.830	2.693	13.7	21.1	5 21	18 30.48	-20 28.0	2.309	3.176	11.1	19.8
5 31	18 29.80	-36 0.8	1.766	2.697	10.5	20.9	5 31	18 25.19	-20 23.1	2.224	3.165	8.2	19.6
6 10	18 21.09	-36 42.3	1.725	2.701	7.4	20.7	6 10	18 18.18	-20 20.0	2.163	3.154	4.9	19.4
6 20	18 10.71	-37 10.6	1.708	2.705	5.3	20.6	6 20	18 10.05	-20 18.1	2.129	3.143	1.5	19.1
6 30	17 59.91	-37 22.6	1.718	2.709	6.0	20.6	6 30	18 1.57	-20 17.1	2.123	3.132	2.8	19.2
7 10	17 50.04	-37 18.4	1.754	2.713	8.8	20.8	7 10	17 53.60	-20 17.1	2.145	3.121	6.3	19.4
7 20	17 42.20	-37 0.7	1.813	2.717	12.0	21.0	7 20	17 46.89	-20 18.4	2.192	3.109	9.6	19.6
7 30	17 37.15	-36 33.9	1.893	2.722	14.9	21.2	7 30	17 42.04	-20 21.3	2.262	3.098	12.5	19.8
260931	2005 RA ₄₆		6 22.9 303°99	1°5/22.8	18		214879	2007 RB ₁₄₉		6 23.0 14°81	21°1/20.5	18	
5 21	18 31.48	-26 1.2	2.101	2.972	11.8	20.3	5 21	18 32.58	+10 39.1	1.023	1.843	24.9	19.9
5 31	18 26.18	-26 36.6	2.022	2.965	8.7	20.1	5 31	18 27.93	+13 33.7	0.985	1.844	23.1	19.8
6 10	18 18.87	-27 11.9	1.966	2.958	5.2	19.9	6 10	18 20.25	+15 51.4	0.962	1.845	21.7	19.7
6 20	18 10.20	-27 44.2	1.937	2.951	1.9	19.6	6 20	18 10.57	+17 19.3	0.954	1.846	21.1	19.7
6 30	18 1.09	-28 11.2	1.936	2.944	3.2	19.7	6 30	18 0.42	+17 49.5	0.962	1.848	21.6	19.7
7 10	17 52.56	-28 31.8	1.962	2.937	6.9	19.9	7 10	17 51.44	+17 23.0	0.985	1.850	22.8	19.8
7 20	17 45.48	-28 46.3	2.013	2.930	10.3	20.1	7 20	17 44.94	+16 7.5	1.021	1.852	24.5	19.9
7 30	17 40.58	-28 55.9	2.086	2.924	13.3	20.3	7 30	17 41.76	+14 14.6	1.070	1.855	26.4	20.1
19246	1994 EL ₇		6 22.9 82°00	2°0/22.9	18 R		242719	2005 UF ₁₃₀		6 23.0 254°92	2°6/23.3	18	
5 21	18 38.06	-26 59.3	1.447	2.326	15.7	17.9	5 21	18 29.92	-14 5.2	2.492	3.347	10.8	20.5
5 31	18 31.33	-27 23.2	1.399	2.346	11.5	17.7	5 31	18 24.68	-14 12.0	2.403	3.334	8.1	20.3
6 10	18 21.91	-27 44.1	1.373	2.365	6.9	17.5	6 10	18 17.86	-14 25.2	2.338	3.320	5.3	20.1
6 20	18 10.88	-27 58.4	1.371	2.385	2.5	17.2	6 20	18 9.98	-14 44.8	2.300	3.306	2.9	19.9
6 30	17 59.68	-28 4.0	1.396	2.404	4.1	17.4	6 30	18 1.73	-15 10.0	2.290	3.293	3.5	19.9
7 10	17 49.77	-28 1.4	1.445	2.423	8.5	17.7	7 10	17 53.89	-15 39.9	2.308	3.278	6.3	20.1
7 20	17 42.21	-27 52.8	1.518	2.442	12.6	18.0	7 20	17 47.13	-16 13.4	2.353	3.264	9.3	20.2
7 30	17 37.70	-27 41.2	1.611	2.460	16.1	18.3	7 30	17 42.05	-16 49.5	2.421	3.249	12.0	20.4
251671	1995 SJ ₁₁		6 22.9 198°94	4°4/22.8	17		505538	2013 YY ₇₆		6 23.0 210°07	0°6/22.9	18	
5 21	18 38.23	-33 8.9	1.747	2.612	14.1	21.5	5 21	18 34.32	-24 20.4	2.296	3.158	11.3	22.3
5 31	18 31.56	-33 48.2	1.675	2.610	10.8	21.3	5 31	18 28.05	-24 36.8	2.212	3.151	8.3	22.1
6 10	18 22.19	-34 20.5	1.626	2.608	7.2	21.1	6 10	18 19.88	-24 52.9	2.153	3.144	4.9	21.9
6 20	18 10.99	-34 41.0	1.602	2.605	4.6	20.9	6 20	18 10.46	-25 7.0	2.122	3.136	1.3	21.6
6 30	17 59.29	-34 46.5	1.604	2.602	5.5	20.9	6 30	18 0.64	-25 17.8	2.119	3.128	2.7	21.7
7 10	17 48.51	-34 37.0	1.633	2.599	8.8	21.1	7 10	17 51.38	-25 24.7	2.144	3.119	6.4	21.9
7 20	17 39.85	-34 15.6	1.685	2.595	12.4	21.3	7 20	17 43.51	-25 28.3	2.196	3.110	9.8	22.1
7 30	17 34.13	-33 46.7	1.758	2.591	15.7	21.5	7 30	17 37.68	-25 29.9	2.271	3.100	12.7	22.3
294895	2008 DB ₁₈		6 22.9 24°67	0°5/22.9	17		289766	2005 JA ₈₂		6 23.0 99°76	6°2/23.0	18	

EPHEMERIDES

6 23.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
24806	1994 <i>RH</i> ₉		6 23.0 327°42'	11.8°/21.4	18		222569	2001 <i>VD</i> ₉₅		6 23.0 179°69'	2°8'/23.5	18	
5 21	18 31.17	-41 35.1	1.068	1.956	19.4	17.4	5 21	18 34.00	-13 31.6	2.226	3.077	12.0	21.2
5 31	18 28.69	-42 58.7	0.980	1.916	16.3	17.0	5 31	18 27.73	-13 47.3	2.150	3.079	9.1	21.0
6 10	18 21.81	-44 10.1	0.909	1.878	13.4	16.7	6 10	18 19.68	-14 10.9	2.098	3.080	5.8	20.8
6 20	18 11.18	-44 56.9	0.857	1.840	11.8	16.5	6 20	18 10.45	-14 41.5	2.073	3.080	3.1	20.6
6 30	17 58.63	-45 7.6	0.824	1.803	12.9	16.4	6 30	18 0.89	-15 18.0	2.077	3.080	3.8	20.7
7 10	17 46.88	-44 37.7	0.810	1.768	16.2	16.5	7 10	17 51.89	-15 58.8	2.109	3.079	6.9	20.9
7 20	17 38.45	-43 31.6	0.812	1.735	20.6	16.6	7 20	17 44.22	-16 42.1	2.168	3.078	10.1	21.1
7 30	17 35.14	-41 59.8	0.829	1.705	25.0	16.7	7 30	17 38.50	-17 26.8	2.250	3.075	12.9	21.3
229526	2005 <i>XK</i> ₂₁		6 23.0 248°51'	3°3'/22.6	18		476264	2007 <i>VX</i> ₁₂₄		6 23.0 205°25'	0°8'/22.9	17	
5 21	18 36.01	-29 55.2	1.870	2.738	13.2	20.9	5 21	18 32.53	-25 8.8	2.194	3.061	11.6	21.8
5 31	18 29.89	-30 41.7	1.788	2.726	9.9	20.7	5 31	18 26.79	-25 22.7	2.117	3.059	8.5	21.6
6 10	18 21.25	-31 25.4	1.728	2.715	6.4	20.4	6 10	18 19.17	-25 35.7	2.065	3.057	5.0	21.4
6 20	18 10.83	-32 1.8	1.695	2.703	3.5	20.2	6 20	18 10.34	-25 46.1	2.040	3.055	1.4	21.2
6 30	17 59.77	-32 27.5	1.689	2.691	4.6	20.3	6 30	18 1.17	-25 52.7	2.043	3.052	2.8	21.3
7 10	17 49.36	-32 41.1	1.709	2.678	8.2	20.5	7 10	17 52.62	-25 55.2	2.073	3.049	6.5	21.5
7 20	17 40.76	-32 43.9	1.753	2.665	11.9	20.7	7 20	17 45.52	-25 54.5	2.129	3.046	9.8	21.7
7 30	17 34.82	-32 38.8	1.819	2.652	15.2	20.9	7 30	17 40.48	-25 51.7	2.207	3.043	12.8	21.9
355635	2008 <i>EM</i> ₂₃		6 23.0 17°20'	2°3'/23.4	18		336517	2008 <i>XU</i> ₅₂		6 23.0 274°84'	7°1'/21.9	18	
5 21	18 29.98	-15 29.4	1.995	2.862	12.5	19.9	5 21	18 39.36	-40 25.8	2.037	2.879	13.3	20.5
5 31	18 24.96	-15 48.8	1.925	2.864	9.3	19.7	5 31	18 32.72	-41 29.9	1.941	2.852	10.8	20.3
6 10	18 18.10	-16 15.5	1.879	2.867	5.8	19.5	6 10	18 23.15	-42 24.9	1.868	2.825	8.5	20.1
6 20	18 10.05	-16 48.6	1.859	2.870	2.6	19.3	6 20	18 11.37	-43 4.0	1.820	2.797	7.1	20.0
6 30	18 1.67	-17 26.7	1.866	2.873	3.5	19.4	6 30	17 58.62	-43 22.1	1.798	2.768	7.8	19.9
7 10	17 53.91	-18 7.7	1.900	2.876	7.0	19.6	7 10	17 46.43	-43 17.9	1.801	2.739	10.1	20.0
7 20	17 47.56	-18 50.2	1.959	2.879	10.4	19.8	7 20	17 36.19	-42 53.9	1.829	2.710	13.1	20.1
7 30	17 43.25	-19 32.9	2.040	2.883	13.4	20.0	7 30	17 28.95	-42 15.4	1.876	2.680	15.9	20.3
187402	2005 <i>VA</i> ₃₈		6 23.0 336°39'	4°0'/22.9	18		241971	2002 <i>GL</i> ₁₀₆		6 23.0 160°19'	8°6'/23.8	18	
5 21	18 29.05	-13 1.8	2.125	2.987	12.1	20.0	5 21	18 28.30	+ 9 26.8	3.068	3.814	11.5	21.0
5 31	18 24.14	-12 29.6	2.052	2.984	9.3	19.9	5 31	18 23.12	+10 10.6	3.006	3.820	10.2	21.0
6 10	18 17.56	-12 3.8	2.001	2.981	6.3	19.7	6 10	18 16.78	+10 38.8	2.966	3.826	9.2	20.9
6 20	18 9.92	-11 45.7	1.977	2.978	4.1	19.5	6 20	18 9.75	+10 49.2	2.949	3.831	8.6	20.9
6 30	18 2.00	-11 36.3	1.979	2.975	4.8	19.6	6 30	18 2.57	+10 40.5	2.957	3.835	8.7	20.9
7 10	17 54.67	-11 35.9	2.008	2.973	7.5	19.7	7 10	17 55.79	+10 13.5	2.989	3.840	9.4	20.9
7 20	17 48.64	-11 43.8	2.062	2.971	10.5	19.9	7 20	17 49.92	+ 9 30.2	3.043	3.843	10.5	21.0
7 30	17 44.47	-11 59.2	2.137	2.969	13.3	20.1	7 30	17 45.36	+ 8 33.5	3.119	3.847	11.7	21.1
437388	2013 <i>WR</i> ₄₁		6 23.0 162°69'	0°1'/23.0	17		45094	1999 <i>XX</i> ₅₃		6 23.0 313°27'	1°6'/23.1	18	
5 21	18 34.10	-23 33.4	1.977	2.846	12.6	22.0	5 21	18 31.72	-19 32.8	1.743	2.619	13.6	18.9
5 31	18 28.01	-23 37.4	1.907	2.850	9.2	21.8	5 31	18 26.54	-19 26.8	1.668	2.614	10.1	18.6
6 10	18 19.89	-23 41.3	1.860	2.852	5.4	21.6	6 10	18 19.17	-19 24.2	1.616	2.608	6.1	18.4
6 20	18 10.48	-23 43.6	1.840	2.855	1.3	21.3	6 20	18 10.36	-19 24.4	1.590	2.603	2.1	18.1
6 30	18 0.76	-23 43.4	1.847	2.857	2.9	21.4	6 30	18 1.14	-19 27.1	1.589	2.598	3.5	18.2
7 10	17 51.80	-23 40.9	1.882	2.859	6.9	21.7	7 10	17 52.64	-19 32.1	1.615	2.593	7.7	18.5
7 20	17 44.46	-23 37.0	1.941	2.860	10.6	21.9	7 20	17 45.82	-19 39.4	1.664	2.589	11.7	18.7
7 30	17 39.38	-23 33.0	2.023	2.862	13.7	22.1	7 30	17 41.40	-19 49.3	1.735	2.584	15.1	18.9
424539	2008 <i>EO</i> ₁₃₅		6 23.0 248°61'	3°6'/23.2	17		275495	1994 <i>AD</i> ₁₅		6 23.0 206°55'	0°8'/22.9	17	
5 21	18 33.23	-14 30.9	1.630	2.500	14.7	21.4	5 21	18 35.06	-25 24.0	2.046	2.912	12.3	21.9
5 31	18 27.73	-14 21.1	1.555	2.494	11.1	21.1	5 31	18 28.78	-25 31.8	1.967	2.908	9.1	21.7
6 10	18 19.91	-14 19.6	1.503	2.488	7.2	20.9	6 10	18 20.39	-25 38.0	1.912	2.903	5.3	21.5
6 20	18 10.51	-14 26.8	1.475	2.482	4.0	20.7	6 20	18 10.64	-25 40.9	1.883	2.898	1.5	21.2
6 30	18 0.64	-14 42.4	1.473	2.476	4.9	20.7	6 30	18 0.50	-25 39.4	1.883	2.892	3.0	21.3
7 10	17 51.49	-15 5.5	1.496	2.470	8.7	20.9	7 10	17 51.05	-25 33.6	1.910	2.886	6.9	21.5
7 20	17 44.11	-15 34.8	1.543	2.463	12.7	21.2	7 20	17 43.19	-25 24.7	1.962	2.879	10.6	21.7
7 30	17 39.26	-16 8.8	1.611	2.457	16.2	21.4	7 30	17 37.62	-25 14.5	2.037	2.872	13.7	21.9
36209	1999 <i>TY</i> ₁₃₀		6 23.0 7°08'	5°8'/23.0	18		206374	2003 <i>QG</i> ₁₀₃		6 23.0 307°75'	4°9'/23.9	17	
5 21	18 28.73	- 7 2.2	2.213	3.056	12.3	19.0	5 21	18 31.06	- 9 47.3	1.645	2.509	14.9	19.5
5 31	18 23.82	- 6 23.5	2.143	3.056	9.9	18.8	5 31	18 26.28	-10 1.6	1.560	2.491	11.7	19.3
6 10	18 17.34	- 5 55.1	2.096	3.057	7.5	18.7	6 10	18 19.17	-10 30.8	1.496	2.474	8.1	19.0
6 20	18 9.87	- 5 39.0	2.075	3.057	5.9	18.6	6 20	18 10.40	-11 15.2	1.456	2.457	5.2	18.8
6 30	18 2.16	- 5 36.3	2.080	3.057	6.3	18.6	6 30	18 0.97	-12 13.8	1.441	2.440	5.7	18.8
7 10	17 55.01	- 5 46.9	2.111	3.058	8.3	18.7	7 10	17 52.07	-13 23.4	1.452	2.424	9.1	18.9
7 20	17 49.07	- 6 9.4	2.166	3.058	10.8	18.9	7 20	17 44.76	-14 40.1	1.487	2.408	13.0	19.1
7 30	17 44.90	- 6 41.7	2.243	3.059	13.2	19.1	7 30	17 39.91	-16 0.3	1.543	2.393	16.6	19.3
93192	2000 <i>SV</i> ₁₁₁		6 23.0 279°52'	3°0'/23.0	17		381506	2008 <i>SO</i> ₁₄₃		6 23.0 120°88'	4°4'/22.6	17	
5 21	18 32.35	-16 36.5	1.763	2.634	13.7	20.2	5 21	18 37.48	-34 55.3	2.250	3.101	11.9	21.5
5 31	18 27.07	-16 16.8	1.676	2.616	10.4	20.0	5 31	18 30.45	-35 46.2	2.192	3.117	9.1	21.4
6 10	18 19.54	-16 2.0	1.611	2.598	6.6	19.7	6 10	18 21.31	-36 29.7	2.158	3.132	6.3	21.2
6 20	18 10.44	-15 52.7	1.571	2.580	3.3	19.5	6 20	18 10.85	-37 1.8	2.151	3.147	4.5	21.1
6 30	18 0.77	-15 49.4	1.557	2.562	4.4	19.5	6 30	18 0.10	-37 19.8	2.172	3.161	5.1	21.2
7 10	17 51.70	-15 52.2	1.569	2.543	8.3	19.7	7 10	17 50.17	-37 23.9	2.220	3.175	7.5	21.4
7 20	17 44.22	-16 1.2	1.605	2.525	12.3	19.9	7 20	17 41.96	-37 16.0	2.294	3.189	10.2	21.6
7 30	17 39.14	-16 15.8	1.663	2.506	15.9	20.1	7 30	17 36.11	-36 59.6	2.390	3.201	12.7	21.8

EPHEMERIDES

6 23.0

6 23.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
434046	2001 <i>TJ</i> ₁₈₃		6 23.0 206°31	2°0/22.9	17		39666	1995 <i>WL</i> ₃₃		6 23.0 17°20	0°5/23.1	18	
5 21	18 36.40	-28 59.8	2.290	3.148	11.5	22.1	5 21	18 32.58	-20 56.7	1.666	2.544	14.0	18.9
5 31	18 29.64	-29 16.4	2.207	3.142	8.5	21.9	5 31	18 27.27	-21 15.6	1.598	2.545	10.3	18.7
6 10	18 20.87	-29 29.2	2.148	3.135	5.3	21.7	6 10	18 19.66	-21 38.1	1.553	2.547	6.1	18.5
6 20	18 10.77	-29 35.8	2.117	3.127	2.3	21.5	6 20	18 10.54	-22 2.1	1.533	2.548	1.5	18.2
6 30	18 0.27	-29 34.7	2.114	3.119	3.4	21.5	6 30	18 1.01	-22 25.9	1.540	2.550	3.3	18.3
7 10	17 50.40	-29 26.1	2.139	3.110	6.7	21.7	7 10	17 52.28	-22 48.3	1.572	2.552	7.7	18.6
7 20	17 42.05	-29 11.4	2.191	3.100	10.0	21.9	7 20	17 45.35	-23 8.8	1.628	2.554	11.8	18.8
7 30	17 35.88	-28 53.2	2.265	3.090	12.9	22.1	7 30	17 40.95	-23 27.9	1.705	2.556	15.2	19.0
174807	2003 <i>XR</i> ₂		6 23.0 269°29	1°9/23.1	17		45202	1999 <i>XA</i> ₁₇₁		6 23.0 201°93	2°2/22.8	18	
5 21	18 34.57	-18 43.5	1.587	2.463	14.8	20.6	5 21	18 34.24	-28 12.9	2.057	2.924	12.2	19.1
5 31	18 29.02	-18 42.2	1.500	2.445	11.0	20.3	5 31	18 28.26	-28 44.0	1.982	2.922	9.1	18.9
6 10	18 20.86	-18 45.7	1.435	2.426	6.7	20.0	6 10	18 20.16	-29 12.6	1.932	2.920	5.6	18.7
6 20	18 10.82	-18 53.3	1.394	2.407	2.5	19.7	6 20	18 10.65	-29 35.7	1.907	2.918	2.5	18.5
6 30	18 0.07	-19 4.4	1.379	2.388	4.0	19.8	6 30	18 0.74	-29 51.1	1.910	2.916	3.6	18.6
7 10	17 49.94	-19 18.2	1.390	2.369	8.7	20.0	7 10	17 51.51	-29 58.4	1.940	2.913	7.1	18.8
7 20	17 41.65	-19 34.5	1.425	2.349	13.3	20.2	7 20	17 43.89	-29 58.5	1.996	2.910	10.5	19.0
7 30	17 36.11	-19 53.3	1.479	2.329	17.2	20.4	7 30	17 38.57	-29 53.6	2.074	2.908	13.5	19.2
215418	2002 <i>GG</i> ₁₁₇		6 23.0 127°89	1°5/22.9	17		500846	2013 <i>HN</i> ₆₁		6 23.0 7°27	3°8/23.0	17	
5 21	18 37.65	-25 8.6	1.564	2.439	14.9	20.5	5 21	18 32.60	-29 48.7	1.006	1.912	18.8	20.9
5 31	18 31.11	-25 45.2	1.503	2.448	11.0	20.3	5 31	18 28.54	-30 13.0	0.953	1.912	14.1	20.6
6 10	18 21.94	-26 21.7	1.464	2.456	6.5	20.1	6 10	18 20.90	-30 30.7	0.918	1.913	8.8	20.3
6 20	18 11.05	-26 54.3	1.450	2.464	2.1	19.8	6 20	18 10.88	-30 36.8	0.904	1.915	4.2	20.1
6 30	17 59.75	-27 20.0	1.463	2.472	3.8	19.9	6 30	18 0.32	-30 28.5	0.911	1.919	5.7	20.2
7 10	17 49.46	-27 37.6	1.502	2.479	8.3	20.2	7 10	17 51.22	-30 7.1	0.939	1.923	10.9	20.5
7 20	17 41.31	-27 48.2	1.565	2.486	12.5	20.5	7 20	17 45.10	-29 36.8	0.987	1.929	15.9	20.8
7 30	17 36.09	-27 53.9	1.648	2.493	16.0	20.7	7 30	17 42.82	-29 2.9	1.052	1.936	20.2	21.1
422321	2014 <i>SJ</i> ₁₉₅		6 23.0 158°58	2°0/23.2	17		95410	2002 <i>CJ</i> ₂₁₇		6 23.0 347°60	5°3/22.9	18	
5 21	18 36.73	-17 32.3	1.843	2.706	13.6	22.1	5 21	18 33.70	-37 28.4	2.018	2.876	12.8	19.4
5 31	18 29.98	-17 34.4	1.776	2.714	10.1	21.9	5 31	18 28.07	-38 1.7	1.947	2.873	10.0	19.2
6 10	18 21.09	-17 41.4	1.733	2.721	6.2	21.6	6 10	18 20.11	-38 25.3	1.899	2.870	7.3	19.0
6 20	18 10.83	-17 52.7	1.715	2.727	2.5	21.4	6 20	18 10.65	-38 35.2	1.876	2.868	5.4	18.9
6 30	18 0.26	-18 7.1	1.725	2.732	3.7	21.5	6 30	18 0.81	-38 29.2	1.878	2.866	6.0	18.9
7 10	17 50.50	-18 24.1	1.763	2.737	7.6	21.8	7 10	17 51.79	-38 7.8	1.907	2.864	8.4	19.1
7 20	17 42.46	-18 43.1	1.825	2.741	11.3	22.0	7 20	17 44.61	-37 34.0	1.959	2.862	11.3	19.2
7 30	17 36.82	-19 3.8	1.910	2.744	14.5	22.2	7 30	17 39.98	-36 52.2	2.033	2.861	14.0	19.4
432378	2009 <i>WX</i> ₁₆₀		6 23.0 204°02	0°5/23.0	17		70122	1999 <i>MX</i>		6 23.0 338°28	4°1/23.1	18	
5 21	18 34.70	-24 53.5	1.865	2.736	13.1	22.2	5 21	18 30.14	-16 14.1	1.139	2.036	17.7	18.7
5 31	18 28.64	-24 55.4	1.791	2.734	9.6	22.0	5 31	18 26.28	-15 46.2	1.072	2.026	13.4	18.4
6 10	18 20.38	-24 55.9	1.740	2.732	5.7	21.7	6 10	18 19.45	-15 26.3	1.025	2.017	8.6	18.1
6 20	18 10.67	-24 53.4	1.715	2.729	1.4	21.4	6 20	18 10.56	-15 15.9	0.998	2.008	4.5	17.8
6 30	18 0.60	-24 47.2	1.717	2.726	3.1	21.6	6 30	18 1.02	-15 16.1	0.994	2.000	5.8	17.9
7 10	17 51.30	-24 37.4	1.745	2.723	7.3	21.8	7 10	17 52.46	-15 26.8	1.012	1.994	10.7	18.1
7 20	17 43.73	-24 25.6	1.799	2.720	11.2	22.0	7 20	17 46.20	-15 46.9	1.050	1.988	15.6	18.4
7 30	17 38.59	-24 13.6	1.875	2.716	14.5	22.2	7 30	17 43.19	-16 14.7	1.106	1.983	19.9	18.6
3917	Franz Schubert		6 23.0 196°14	1°3/23.1	18		303881	2005 <i>TL</i> ₆₀		6 23.0 1°52	0°2/23.0	16	
5 21	18 34.72	-20 6.2	1.530	2.409	15.0	17.3	5 21	18 30.43	-23 50.5	1.723	2.605	13.5	20.0
5 31	18 28.98	-20 8.7	1.462	2.408	11.1	17.0	5 31	18 25.61	-23 37.4	1.655	2.604	9.9	19.8
6 10	18 20.71	-20 14.8	1.415	2.408	6.6	16.8	6 10	18 18.64	-23 23.4	1.610	2.604	5.8	19.6
6 20	18 10.77	-20 23.5	1.393	2.407	2.0	16.5	6 20	18 10.30	-23 7.9	1.589	2.604	1.4	19.3
6 30	18 0.39	-20 33.6	1.397	2.407	3.7	16.6	6 30	18 1.66	-22 50.8	1.594	2.605	3.1	19.4
7 10	17 50.89	-20 44.5	1.426	2.406	8.4	16.9	7 10	17 53.83	-22 33.1	1.625	2.606	7.4	19.7
7 20	17 43.38	-20 56.3	1.479	2.405	12.7	17.1	7 20	17 47.73	-22 16.2	1.680	2.608	11.3	19.9
7 30	17 38.64	-21 9.3	1.552	2.404	16.4	17.3	7 30	17 44.02	-22 1.4	1.757	2.611	14.7	20.1
257991	2001 <i>DB</i> ₈₂		6 23.0 36°43	2°5/23.2	17		40271	1999 <i>JT</i>		6 23.0 309°55	2°1/23.8	18	
5 21	18 32.95	-17 39.2	1.229	2.120	17.1	20.5	5 21	18 36.85	-12 1.7	1.247	2.122	18.0	17.7
5 31	18 27.94	-17 38.4	1.177	2.129	12.7	20.2	5 31	18 31.82	-13 39.5	1.147	2.089	13.9	17.4
6 10	18 20.16	-17 45.2	1.145	2.138	7.7	20.0	6 10	18 23.25	-15 47.1	1.067	2.057	8.7	17.0
6 20	18 10.64	-17 58.8	1.136	2.148	3.1	19.7	6 20	18 11.62	-18 21.6	1.012	2.025	3.2	16.6
6 30	18 0.79	-18 17.8	1.150	2.159	4.5	19.9	6 30	17 58.17	-21 13.9	0.983	1.993	4.6	16.6
7 10	17 52.10	-18 40.9	1.188	2.170	9.4	20.2	7 10	17 44.71	-24 11.2	0.980	1.962	10.9	16.8
7 20	17 45.72	-19 6.9	1.248	2.182	13.9	20.5	7 20	17 33.17	-27 1.1	1.001	1.931	16.9	17.0
7 30	17 42.39	-19 34.9	1.327	2.194	17.8	20.7	7 30	17 25.22	-29 36.0	1.042	1.901	22.2	17.3
114515	2003 <i>BA</i> ₇		6 23.0 3°18	2°8/23.3	18		160952	2002 <i>AG</i> ₁₁₁		6 23.0 246°38	0°7/23.1	18	
5 21	18 34.21	-32 16.6	1.966	2.832	12.7	19.5	5 21	18 36.22	-20 22.3	1.566	2.441	14.9	19.9
5 31	18 28.21	-32 8.9	1.894	2.832	9.6	19.3	5 31	18 30.28	-20 43.0	1.484	2.429	11.1	19.7
6 10	18 20.07	-31 53.1	1.846	2.832	6.1	19.1	6 10	18 21.65	-21 8.7	1.424	2.417	6.6	19.4
6 20	18 10.60	-31 27.6	1.824	2.832	3.1	18.9	6 20	18 11.08	-21 37.0	1.389	2.404	1.7	19.0
6 30	18 0.89	-30 51.9	1.828	2.833	3.9	18.9	6 30	17 59.80	-22 5.6	1.381	2.391	3.6	19.1
7 10	17 52.06	-30 8.1	1.859	2.833	7.3	19.1	7 10	17 49.22	-22 32.9	1.398	2.377	8.6	19.4
7 20	17 45.01	-29 19.3	1.916	2.834	10.7	19.3	7 20	17 40.57	-22 58.2	1.439	2.363	13.2	19.6
7 30	17 40.39	-28 29.4	1.994	2.835	13.8	19.6	7 30	17 34.79	-23 22.1	1.500	2.349	17.1	19.8
162208	1999 <i>RB</i> ₂₅₈		6 23.0 246°56	19°5/26.0	18		210372	2007 <i>VR</i>					

EPHEMERIDES

6 23.0

6 23.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
13393	1999 <i>ND</i> ₉		6 23.0 226°11	1.7°/23.2	18		75427	1999 <i>XK</i> ₁₂₃		6 23.0 298°14	5°6'/22.7	18	
5 21	18 34.58	-18 34.4	1.462	2.342	15.5	17.4	5 21	18 36.45	-34 2.3	1.413	2.291	16.1	19.1
5 31	18 29.00	-18 45.3	1.394	2.341	11.5	17.2	5 31	18 31.07	-34 47.8	1.335	2.275	12.5	18.9
6 10	18 20.80	-19 2.4	1.348	2.341	6.9	16.9	6 10	18 22.39	-35 25.8	1.277	2.260	8.6	18.6
6 20	18 10.85	-19 24.2	1.326	2.340	2.4	16.6	6 20	18 11.32	-35 49.7	1.243	2.245	5.8	18.4
6 30	18 0.41	-19 49.0	1.330	2.340	3.9	16.7	6 30	17 59.38	-35 54.7	1.233	2.230	6.8	18.4
7 10	17 50.86	-20 15.3	1.359	2.339	8.7	17.0	7 10	17 48.39	-35 40.5	1.246	2.216	10.6	18.6
7 20	17 43.34	-20 42.2	1.411	2.338	13.1	17.3	7 20	17 39.88	-35 10.6	1.282	2.201	14.8	18.8
7 30	17 38.68	-21 9.5	1.483	2.338	16.9	17.5	7 30	17 34.92	-34 30.9	1.336	2.187	18.6	19.0
176048	2000 <i>TH</i>		6 23.0 181°21	4°3'/22.9	18		119616	2001 <i>WH</i> ₃₆		6 23.0 212°17	0°7'/23.1	18	
5 21	18 34.48	-36 23.5	2.426	3.276	11.2	20.1	5 21	18 34.27	-20 10.2	1.913	2.781	13.0	20.1
5 31	18 28.24	-36 49.8	2.353	3.276	8.7	19.9	5 31	18 28.35	-20 29.5	1.836	2.777	9.6	19.9
6 10	18 20.06	-37 8.1	2.304	3.276	6.1	19.8	6 10	18 20.27	-20 52.6	1.782	2.773	5.7	19.6
6 20	18 10.64	-37 15.2	2.282	3.276	4.4	19.7	6 20	18 10.75	-21 17.8	1.754	2.768	1.5	19.3
6 30	18 0.92	-37 9.5	2.287	3.276	4.9	19.7	6 30	18 0.78	-21 43.3	1.753	2.763	3.1	19.4
7 10	17 51.91	-36 51.5	2.319	3.276	7.1	19.8	7 10	17 51.45	-22 7.9	1.780	2.758	7.2	19.7
7 20	17 44.43	-36 23.5	2.376	3.275	9.7	20.0	7 20	17 43.71	-22 31.2	1.832	2.752	11.0	19.9
7 30	17 39.12	-35 48.9	2.457	3.275	12.2	20.2	7 30	17 38.28	-22 53.2	1.906	2.746	14.3	20.1
35756	1999 <i>GX</i> ₅₈		6 23.0 340°58	4°6'/23.7	18		305472	2008 <i>DM</i> ₄₈		6 23.1 96°59	9°6'/23.4	18	
5 21	18 29.62	-12 7.3	1.319	2.202	16.7	17.0	5 21	18 29.23	+ 6 28.2	2.435	3.212	13.3	20.7
5 31	18 25.60	-12 14.6	1.248	2.192	12.8	16.7	5 31	18 24.03	+ 7 33.2	2.384	3.225	11.7	20.6
6 10	18 18.94	-12 36.6	1.197	2.183	8.6	16.5	6 10	18 17.45	+ 8 20.6	2.354	3.238	10.4	20.6
6 20	18 10.44	-13 13.5	1.168	2.174	5.0	16.2	6 20	18 10.04	+ 8 47.4	2.347	3.251	9.7	20.5
6 30	18 1.32	-14 3.8	1.163	2.167	5.8	16.3	6 30	18 2.49	+ 8 51.9	2.364	3.264	9.8	20.6
7 10	17 52.97	-15 4.3	1.181	2.160	9.8	16.5	7 10	17 55.50	+ 8 35.0	2.405	3.276	10.7	20.7
7 20	17 46.59	-16 11.2	1.222	2.155	14.3	16.7	7 20	17 49.66	+ 7 58.9	2.468	3.289	12.1	20.8
7 30	17 43.09	-17 20.7	1.282	2.150	18.2	16.9	7 30	17 45.42	+ 7 7.4	2.551	3.301	13.5	20.9
470313	2007 <i>MA</i> ₁₅		6 23.0 324°84	2°5'/23.3	18		202937	1999 <i>AL</i> ₁₈		6 23.1 150°23	1°4'/23.1	17	
5 21	18 30.31	-16 17.3	1.503	2.385	15.1	20.3	5 21	18 38.09	-26 38.6	1.483	2.361	15.5	20.7
5 31	18 25.95	-16 30.3	1.423	2.370	11.3	20.0	5 31	18 31.58	-26 42.7	1.419	2.365	11.4	20.4
6 10	18 19.09	-16 52.5	1.365	2.356	7.1	19.8	6 10	18 22.30	-26 43.4	1.376	2.369	6.8	20.2
6 20	18 10.48	-17 23.0	1.330	2.342	3.1	19.5	6 20	18 11.24	-26 38.3	1.358	2.372	2.1	19.9
6 30	18 1.22	-18 0.4	1.321	2.329	4.2	19.5	6 30	17 59.80	-26 26.1	1.366	2.376	3.8	20.0
7 10	17 52.62	-18 42.3	1.336	2.317	8.7	19.7	7 10	17 49.47	-26 8.0	1.399	2.379	8.6	20.3
7 20	17 45.81	-19 26.8	1.374	2.305	13.1	20.0	7 20	17 41.41	-25 46.4	1.456	2.381	13.0	20.6
7 30	17 41.69	-20 12.1	1.432	2.294	17.0	20.2	7 30	17 36.41	-25 24.5	1.533	2.383	16.7	20.8
446600	2015 <i>MF</i> ₈		6 23.0 106°12	5°9'/24.1	16		373607	2002 <i>CZ</i> ₃₀₅		6 23.1 111°82	4°2'/23.3	17	
5 21	18 29.74	- 4 16.8	2.306	3.136	12.4	21.0	5 21	18 33.19	-12 25.1	1.889	2.747	13.5	21.1
5 31	18 24.53	- 4 11.6	2.238	3.141	10.0	20.9	5 31	18 27.27	-12 3.5	1.830	2.760	10.3	20.9
6 10	18 17.79	- 4 19.7	2.193	3.147	7.6	20.7	6 10	18 19.48	-11 50.3	1.793	2.772	6.9	20.7
6 20	18 10.10	- 4 41.7	2.174	3.152	6.1	20.7	6 20	18 10.54	-11 46.4	1.782	2.784	4.4	20.6
6 30	18 2.18	- 5 17.6	2.181	3.157	6.2	20.7	6 30	18 1.40	-11 52.0	1.798	2.795	5.1	20.6
7 10	17 54.79	- 6 5.7	2.215	3.162	8.0	20.8	7 10	17 53.03	-12 6.5	1.840	2.806	8.0	20.8
7 20	17 48.59	- 7 3.4	2.275	3.167	10.4	21.0	7 20	17 46.24	-12 28.6	1.907	2.817	11.2	21.0
7 30	17 44.10	- 8 7.6	2.357	3.173	12.7	21.1	7 30	17 41.60	-12 56.8	1.996	2.828	14.1	21.3
119491	2001 <i>UM</i> ₇₂		6 23.0 136°21	5°3'/23.9	18		60036	1999 <i>TD</i> ₉₄		6 23.1 336°82	2°4'/22.8	18	
5 21	18 33.45	- 8 3.4	1.881	2.728	14.1	19.4	5 21	18 30.91	-28 7.6	1.831	2.709	13.0	18.2
5 31	18 27.53	- 8 5.6	1.816	2.735	11.0	19.2	5 31	18 26.12	-28 40.1	1.754	2.700	9.7	18.0
6 10	18 19.66	- 8 21.0	1.773	2.743	7.8	19.0	6 10	18 19.08	-29 10.4	1.700	2.691	6.0	17.8
6 20	18 10.56	- 8 49.9	1.755	2.749	5.5	18.9	6 20	18 10.49	-29 35.6	1.672	2.683	2.7	17.5
6 30	18 1.15	- 9 31.5	1.765	2.756	5.9	18.9	6 30	18 1.41	-29 53.1	1.669	2.675	3.9	17.6
7 10	17 52.45	-10 23.4	1.800	2.762	8.5	19.1	7 10	17 53.01	-30 2.2	1.692	2.668	7.7	17.8
7 20	17 45.29	-11 22.9	1.861	2.768	11.6	19.3	7 20	17 46.30	-30 3.7	1.739	2.662	11.4	18.0
7 30	17 40.29	-12 26.7	1.944	2.774	14.5	19.5	7 30	17 42.03	-29 59.7	1.808	2.656	14.6	18.2
520408	2014 <i>JN</i> ₈₇		6 23.0 111°00	0°7'/22.9	18		508216	2015 <i>GN</i> ₂₄		6 23.1 61°67	2°5'/22.6	17	
5 21	18 32.08	-23 45.9	2.288	3.155	11.2	21.1	5 21	18 35.23	-26 24.5	1.714	2.589	13.9	20.4
5 31	18 26.42	-24 20.7	2.219	3.160	8.2	20.9	5 31	18 29.30	-27 29.5	1.654	2.598	10.2	20.2
6 10	18 18.98	-24 56.4	2.175	3.166	4.8	20.7	6 10	18 20.92	-28 34.6	1.617	2.607	6.2	20.0
6 20	18 10.40	-25 30.7	2.157	3.172	1.3	20.5	6 20	18 10.92	-29 34.8	1.605	2.616	2.8	19.8
6 30	18 1.51	-26 1.6	2.168	3.177	2.7	20.6	6 30	18 0.48	-30 25.8	1.620	2.626	4.2	19.9
7 10	17 53.21	-26 27.9	2.207	3.183	6.2	20.8	7 10	17 50.88	-31 5.5	1.662	2.636	8.0	20.2
7 20	17 46.27	-26 49.7	2.272	3.188	9.4	21.0	7 20	17 43.19	-31 34.2	1.728	2.645	11.8	20.4
7 30	17 41.28	-27 7.5	2.360	3.193	12.1	21.2	7 30	17 38.18	-31 53.9	1.816	2.655	14.9	20.6
137347	1999 <i>TL</i> ₉₄		6 23.0 254°21	2°9'/22.8	18		136847	1998 <i>BC</i> ₄		6 23.1 140°99	0°1'/23.1	18	
5 21	18 37.11	-28 51.3	1.672	2.544	14.3	20.5	5 21	18 32.24	-22 30.8	2.582	3.442	10.3	20.7
5 31	18 31.00	-29 28.0	1.588	2.530	10.7	20.2	5 31	18 26.28	-22 40.1	2.514	3.452	7.5	20.5
6 10	18 22.10	-30 2.3	1.527	2.516	6.7	19.9	6 10	18 18.79	-22 50.0	2.471	3.462	4.4	20.3
6 20	18 11.22	-30 29.6	1.490	2.501	3.2	19.7	6 20	18 10.38	-22 59.3	2.456	3.471	1.0	20.1
6 30	17 59.58	-30 46.6	1.480	2.485	4.6	19.7	6 30	18 1.77	-23 7.2	2.471	3.480	2.3	20.2
7 10	17 48.67	-30 52.1	1.496	2.470	8.7	19.9	7 10	17 53.73	-23 13.5	2.513	3.489	5.5	20.5
7 20	17 39.76	-30 47.8	1.536	2.454	12.9	20.1	7 20	17 46.91	-23 18.5	2.583	3.497	8.5	20.7
7 30	17 33.79	-30 37.0	1.596	2.438	16.6	20.3	7 30	17 41.83	-23 22.8	2.676	3.504	11.0	20.8
480621	2015 <i>MF</i> ₁₂₃		6 23.0 312°32	4°4'/22.9	18		365327</						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
92791	2000 QX ₁₅₁		6 23.1	2°70	10°3/23.8	18	292087	2006 RW ₃₄		6 23.1	277°91	2°9/22.8	17
5 21	18 39.31	-45 46.9	1.410	2.261	17.7	18.8	5 21	18 36.30	-27 55.3	1.537	2.415	15.0	20.9
5 31	18 33.34	-46 32.7	1.351	2.260	14.8	18.7	5 31	18 30.69	-28 37.6	1.451	2.397	11.3	20.6
6 10	18 23.67	-46 57.6	1.311	2.259	12.1	18.5	6 10	18 22.11	-29 19.2	1.387	2.378	7.0	20.3
6 20	18 11.61	-46 53.7	1.292	2.260	10.4	18.4	6 20	18 11.34	-29 55.1	1.348	2.359	3.2	20.0
6 30	17 59.09	-46 17.3	1.295	2.261	10.7	18.4	6 30	17 59.67	-30 21.3	1.334	2.340	4.7	20.1
7 10	17 48.21	-45 11.5	1.321	2.263	12.7	18.5	7 10	17 48.68	-30 35.8	1.345	2.321	9.3	20.3
7 20	17 40.45	-43 44.0	1.368	2.265	15.6	18.7	7 20	17 39.78	-30 39.9	1.380	2.302	13.8	20.5
7 30	17 36.64	-42 4.9	1.433	2.268	18.4	18.9	7 30	17 34.01	-30 36.6	1.434	2.283	17.7	20.7
167955	2005 EZ ₂₄₀		6 23.1	116°87	1°2/22.9	17	296360	2009 FM ₂₅		6 23.1	57°62	1°0/23.1	17
5 21	18 34.27	-25 43.9	2.077	2.944	12.1	20.5	5 21	18 35.91	-21 36.2	1.235	2.125	17.2	20.6
5 31	18 28.13	-26 8.0	2.013	2.954	8.9	20.3	5 31	18 30.07	-21 29.5	1.189	2.141	12.6	20.4
6 10	18 20.03	-26 30.8	1.974	2.965	5.3	20.1	6 10	18 21.41	-21 25.1	1.163	2.157	7.4	20.1
6 20	18 10.71	-26 50.1	1.961	2.975	1.7	19.8	6 20	18 11.08	-21 21.8	1.160	2.174	2.0	19.8
6 30	18 1.12	-27 4.3	1.976	2.985	3.0	20.0	6 30	18 0.55	-21 18.8	1.181	2.191	3.9	20.0
7 10	17 52.28	-27 12.9	2.019	2.994	6.7	20.2	7 10	17 51.37	-21 16.6	1.226	2.209	9.1	20.4
7 20	17 45.03	-27 16.7	2.087	3.004	10.0	20.4	7 20	17 44.64	-21 16.0	1.294	2.226	13.6	20.7
7 30	17 39.98	-27 17.3	2.178	3.013	12.9	20.6	7 30	17 41.05	-21 17.7	1.380	2.244	17.4	21.0
393964	2005 UM ₂₆₅		6 23.1	336°06	4°3/22.9	18	436326	2010 GP ₃₂		6 23.1	110°47	4°2/23.6	17
5 21	18 28.87	-13 52.2	1.837	2.708	13.3	20.3	5 21	18 32.09	-10 42.5	2.083	2.934	12.7	21.7
5 31	18 24.37	-13 12.7	1.761	2.698	10.2	20.0	5 31	18 26.38	-10 36.0	2.022	2.947	9.8	21.5
6 10	18 17.93	-12 39.5	1.707	2.689	6.9	19.8	6 10	18 18.95	-10 39.0	1.984	2.959	6.7	21.3
6 20	18 10.23	-12 14.2	1.678	2.681	4.4	19.7	6 20	18 10.48	-10 51.8	1.972	2.971	4.4	21.2
6 30	18 2.17	-11 58.5	1.675	2.673	5.2	19.7	6 30	18 1.81	-11 14.2	1.987	2.983	4.9	21.3
7 10	17 54.73	-11 52.9	1.697	2.666	8.3	19.9	7 10	17 53.80	-11 44.7	2.030	2.994	7.5	21.5
7 20	17 48.76	-11 57.1	1.743	2.659	11.7	20.0	7 20	17 47.19	-12 21.7	2.097	3.005	10.4	21.7
7 30	17 44.91	-12 10.0	1.810	2.653	14.8	20.2	7 30	17 42.53	-13 3.2	2.187	3.016	13.1	21.9
470793	2008 UE ₃₄₃		6 23.1	54°51	2°5/22.8	17	467611	2008 AK ₈₇		6 23.1	131°59	1°0/23.1	17
5 21	18 33.58	-19 36.7	1.775	2.648	13.6	20.8	5 21	18 36.14	-21 7.2	1.674	2.546	14.3	21.8
5 31	18 27.74	-18 46.8	1.709	2.651	10.1	20.6	5 31	18 29.79	-21 0.9	1.611	2.554	10.5	21.5
6 10	18 19.84	-17 57.7	1.665	2.655	6.2	20.4	6 10	18 21.12	-20 56.4	1.571	2.563	6.2	21.3
6 20	18 10.66	-17 11.0	1.648	2.659	2.8	20.2	6 20	18 11.02	-20 52.7	1.556	2.570	1.8	21.0
6 30	18 1.27	-16 28.6	1.657	2.663	4.0	20.3	6 30	18 0.63	-20 49.4	1.568	2.578	3.4	21.2
7 10	17 52.74	-15 52.5	1.692	2.666	7.9	20.5	7 10	17 51.18	-20 46.7	1.607	2.585	7.8	21.4
7 20	17 45.93	-15 24.1	1.753	2.670	11.6	20.8	7 20	17 43.64	-20 45.3	1.669	2.592	11.8	21.7
7 30	17 41.46	-15 4.1	1.834	2.674	14.8	21.0	7 30	17 38.68	-20 46.0	1.754	2.598	15.2	21.9
369968	1995 UN ₂₄		6 23.1	298°27	7°8/22.2	18	328277	2008 GY ₆₃		6 23.1	352°88	10°7/22.3	17
5 21	18 32.08	- 9 26.6	1.434	2.303	16.4	21.0	5 21	18 25.29	- 7 3.5	1.034	1.926	19.5	20.2
5 31	18 27.38	- 8 13.3	1.347	2.277	13.2	20.7	5 31	18 22.76	- 5 28.7	0.977	1.917	16.0	19.9
6 10	18 20.04	- 7 8.6	1.280	2.252	10.0	20.4	6 10	18 17.42	- 4 10.4	0.937	1.909	12.7	19.7
6 20	18 10.80	- 6 17.6	1.236	2.226	7.9	20.3	6 20	18 10.19	- 3 16.3	0.917	1.902	10.8	19.6
6 30	18 0.79	- 5 44.9	1.216	2.201	8.8	20.2	6 30	18 2.44	- 2 52.2	0.916	1.898	11.5	19.6
7 10	17 51.36	- 5 32.9	1.219	2.176	12.1	20.3	7 10	17 55.66	- 2 59.3	0.935	1.895	14.4	19.8
7 20	17 43.73	- 5 41.5	1.243	2.151	16.1	20.5	7 20	17 51.11	- 3 34.2	0.972	1.895	18.1	20.0
7 30	17 38.88	- 6 8.2	1.286	2.126	19.8	20.7	7 30	17 49.62	- 4 30.6	1.025	1.896	21.6	20.2
39083	2000 VA ₃₄		6 23.1	204°24	0°2/23.1	18	257915	2000 VU ₄₈		6 23.1	246°57	2°6/22.8	18
5 21	18 30.95	-22 44.4	2.712	3.573	9.8	20.3	5 21	18 37.82	-28 0.8	1.669	2.541	14.4	20.8
5 31	18 25.37	-22 47.0	2.631	3.569	7.2	20.1	5 31	18 31.56	-28 38.2	1.585	2.527	10.8	20.6
6 10	18 18.31	-22 49.8	2.574	3.565	4.2	19.9	6 10	18 22.50	-29 13.8	1.523	2.513	6.7	20.3
6 20	18 10.31	-22 52.1	2.546	3.560	1.0	19.6	6 20	18 11.43	-29 43.5	1.487	2.498	3.0	20.1
6 30	18 2.04	-22 53.2	2.546	3.556	2.3	19.7	6 30	17 59.59	-30 3.6	1.477	2.483	4.4	20.1
7 10	17 54.24	-22 53.1	2.575	3.550	5.4	19.9	7 10	17 48.46	-30 12.9	1.493	2.467	8.7	20.3
7 20	17 47.56	-22 52.3	2.630	3.545	8.3	20.1	7 20	17 39.32	-30 12.8	1.533	2.451	12.9	20.5
7 30	17 42.51	-22 51.3	2.710	3.539	10.9	20.3	7 30	17 33.13	-30 6.3	1.594	2.434	16.6	20.7
366691	2003 UG ₃₅₄		6 23.1	26°13	4°6/23.5	17	376961	2002 GB ₉₁		6 23.1	61°55	3°9/22.7	17
5 21	18 31.99	-13 40.0	1.163	2.052	18.0	20.6	5 21	18 36.47	-30 55.4	1.610	2.484	14.7	20.5
5 31	18 27.39	-13 31.1	1.110	2.058	13.6	20.4	5 31	18 30.28	-31 47.1	1.561	2.502	11.0	20.3
6 10	18 19.97	-13 34.7	1.077	2.065	8.9	20.1	6 10	18 21.50	-32 33.2	1.533	2.519	7.1	20.2
6 20	18 10.74	-13 51.5	1.065	2.073	5.0	19.9	6 20	18 11.12	-33 8.8	1.530	2.537	4.1	20.0
6 30	18 1.12	-14 20.5	1.076	2.081	5.9	20.0	6 30	18 0.45	-33 30.6	1.554	2.554	5.1	20.1
7 10	17 52.62	-14 59.2	1.110	2.090	10.2	20.3	7 10	17 50.88	-33 38.6	1.602	2.572	8.6	20.4
7 20	17 46.44	-15 44.6	1.165	2.099	14.7	20.6	7 20	17 43.49	-33 34.9	1.674	2.590	12.1	20.6
7 30	17 43.36	-16 33.9	1.239	2.110	18.6	20.8	7 30	17 38.98	-33 23.4	1.767	2.608	15.2	20.9
253379	2003 HP ₅₅		6 23.1	41°30	5°3/23.1	18	113554	2002 TZ ₂₉		6 23.1	321°06	4°6/22.4	18
5 21	18 34.99	-36 37.8	1.781	2.645	14.0	19.4	5 21	18 33.23	-31 51.5	1.647	2.524	14.2	18.6
5 31	18 29.03	-37 10.4	1.732	2.662	10.8	19.2	5 31	18 28.31	-32 51.2	1.567	2.509	10.9	18.4
6 10	18 20.67	-37 32.3	1.704	2.679	7.6	19.0	6 10	18 20.65	-33 47.4	1.510	2.494	7.3	18.1
6 20	18 10.87	-37 39.6	1.701	2.697	5.5	19.0	6 20	18 10.99	-34 34.5	1.476	2.480	4.8	17.9
6 30	18 0.89	-37 30.4	1.724	2.715	6.0	19.0	6 30	18 0.57	-35 7.7	1.468	2.466	5.8	18.0
7 10	17 52.02	-37 6.3	1.772	2.733	8.6	19.2	7 10	17 50.84	-35 25.4	1.485	2.453	9.3	18.1
7 20	17 45.23	-36 30.8	1.843	2.752	11.6	19.4	7 20	17 43.09	-35 28.6	1.524	2.440	13.1	18.3
7 30	17 41.17	-35 48.6	1.936	2.771	14.3	19.7	7 30	17 38.29	-35 21.0	1.584	2.428	16.6	18.5
275712	2000 WV ₁₂₉		6 23.1	200°36	3°2/22.8	18	254265	2004 RW ₁₇₉		6 23.1	290°1		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
498523	2008 <i>EJ</i> ₇₆		6 23.1 153°34	0°8/23.1	17		9164	Colbert		6 23.1 258°52	1°3/23.0	18	R
5 21	18 36.03	-20 57.9	1.831	2.699	13.4	22.4	5 21	18 31.60	-27 27.6	2.526	3.389	10.4	18.3
5 31	18 29.60	-21 3.6	1.765	2.706	9.9	22.2	5 31	18 26.08	-27 35.1	2.438	3.376	7.7	18.1
6 10	18 20.99	-21 11.5	1.721	2.712	5.8	22.0	6 10	18 18.86	-27 40.1	2.374	3.364	4.6	17.9
6 20	18 11.00	-21 20.2	1.703	2.718	1.6	21.7	6 20	18 10.52	-27 41.0	2.338	3.351	1.7	17.7
6 30	18 0.70	-21 28.7	1.713	2.723	3.1	21.9	6 30	18 1.83	-27 36.9	2.330	3.338	2.7	17.7
7 10	17 51.21	-21 36.7	1.750	2.727	7.3	22.1	7 10	17 53.63	-27 28.0	2.350	3.324	5.9	17.9
7 20	17 43.47	-21 44.3	1.812	2.731	11.2	22.4	7 20	17 46.67	-27 15.3	2.396	3.311	9.0	18.1
7 30	17 38.15	-21 52.4	1.896	2.735	14.4	22.6	7 30	17 41.54	-27 0.4	2.465	3.297	11.7	18.3
393223	2013 <i>EN</i> ₁₀₁		6 23.1 141°53	6°2/24.2	18		510598	2012 <i>TK</i> ₂		6 23.1 222°98	6°2/23.1	18	
5 21	18 29.12	-1 34.2	2.606	3.420	11.6	20.7	5 21	18 31.41	-6 53.9	2.058	2.901	13.2	22.0
5 31	18 23.98	-1 24.5	2.537	3.425	9.5	20.5	5 31	18 26.02	-6 15.3	1.983	2.895	10.6	21.9
6 10	18 17.49	-1 27.9	2.491	3.429	7.6	20.4	6 10	18 18.85	-5 47.7	1.930	2.890	8.0	21.7
6 20	18 10.16	-1 45.5	2.470	3.433	6.4	20.3	6 20	18 10.52	-5 33.2	1.902	2.884	6.3	21.6
6 30	18 2.62	-2 17.5	2.476	3.437	6.5	20.3	6 30	18 1.85	-5 33.3	1.900	2.878	6.8	21.6
7 10	17 55.55	-3 2.5	2.508	3.441	7.9	20.4	7 10	17 53.75	-5 47.8	1.924	2.872	9.0	21.7
7 20	17 49.51	-3 58.1	2.566	3.445	9.8	20.6	7 20	17 46.98	-6 15.1	1.973	2.866	11.7	21.9
7 30	17 44.99	-5 1.4	2.648	3.449	11.8	20.7	7 30	17 42.16	-6 52.8	2.043	2.859	14.3	22.0
349547	2008 <i>SO</i> ₁₀₆		6 23.1 237°85	0°8/23.1	18		244402	2002 <i>PZ</i> ₁₂₄		6 23.1 289°79	7°8/23.5	18	
5 21	18 33.26	-21 3.7	1.976	2.845	12.6	21.6	5 21	18 30.36	-3 6.0	1.917	2.751	14.3	20.4
5 31	18 27.58	-21 5.0	1.896	2.838	9.3	21.4	5 31	18 25.53	-2 34.8	1.828	2.731	11.9	20.2
6 10	18 19.85	-21 8.1	1.839	2.831	5.5	21.1	6 10	18 18.72	-2 18.7	1.761	2.710	9.5	20.0
6 20	18 10.76	-21 12.2	1.809	2.823	1.5	20.8	6 20	18 10.53	-2 20.6	1.718	2.689	7.9	19.9
6 30	18 1.25	-21 16.6	1.805	2.815	3.0	20.9	6 30	18 1.81	-2 42.1	1.699	2.669	8.3	19.9
7 10	17 52.37	-21 20.9	1.829	2.807	7.1	21.2	7 10	17 53.54	-3 22.6	1.706	2.648	10.3	19.9
7 20	17 45.01	-21 25.5	1.878	2.798	10.8	21.4	7 20	17 46.60	-4 19.5	1.735	2.627	13.1	20.1
7 30	17 39.87	-21 31.0	1.949	2.790	14.0	21.6	7 30	17 41.72	-5 28.8	1.786	2.606	15.9	20.2
479276	2013 <i>GR</i> ₂		6 23.1 178°71	4°0/22.8	18		492383	2014 <i>HK</i> ₁₄₂		6 23.1 329°32	0°5/23.1	18	
5 21	18 33.84	-36 13.8	2.648	3.495	10.5	21.2	5 21	18 30.93	-22 32.8	2.068	2.940	12.0	21.1
5 31	18 27.72	-36 46.1	2.575	3.496	8.1	21.0	5 31	18 25.77	-22 24.2	1.992	2.936	8.8	20.9
6 10	18 19.80	-37 11.2	2.526	3.496	5.7	20.9	6 10	18 18.73	-22 15.7	1.940	2.932	5.2	20.7
6 20	18 10.73	-37 26.3	2.503	3.497	4.1	20.8	6 20	18 10.50	-22 6.9	1.914	2.929	1.3	20.4
6 30	18 1.35	-37 29.5	2.509	3.497	4.7	20.8	6 30	18 1.96	-21 57.5	1.916	2.926	2.8	20.5
7 10	17 52.59	-37 21.0	2.542	3.497	6.7	20.9	7 10	17 54.07	-21 47.9	1.944	2.922	6.6	20.8
7 20	17 45.21	-37 2.6	2.601	3.496	9.1	21.1	7 20	17 47.61	-21 39.0	1.997	2.919	10.1	21.0
7 30	17 39.81	-36 37.1	2.683	3.496	11.4	21.3	7 30	17 43.22	-21 31.7	2.073	2.917	13.2	21.2
370674	2004 <i>EG</i> ₁₆		6 23.1 123°65	1°1/23.1	17		390464	2013 <i>YT</i> ₁₁₃		6 23.1 343°06	1°9/23.1	17	
5 21	18 37.32	-26 1.6	1.761	2.630	13.8	21.5	5 21	18 34.09	-28 28.7	1.758	2.633	13.6	20.9
5 31	18 30.60	-26 11.7	1.700	2.643	10.1	21.3	5 31	18 28.43	-28 31.2	1.687	2.631	10.1	20.7
6 10	18 21.59	-26 19.6	1.663	2.655	6.0	21.1	6 10	18 20.44	-28 29.2	1.639	2.629	6.1	20.4
6 20	18 11.15	-26 23.0	1.652	2.666	1.8	20.8	6 20	18 10.94	-28 20.5	1.615	2.628	2.3	20.2
6 30	18 0.47	-26 20.7	1.668	2.677	3.3	21.0	6 30	18 1.08	-28 4.2	1.619	2.627	3.6	20.3
7 10	17 50.77	-26 13.0	1.710	2.687	7.5	21.3	7 10	17 52.09	-27 41.4	1.648	2.626	7.7	20.5
7 20	17 43.00	-26 1.8	1.778	2.697	11.3	21.5	7 20	17 44.96	-27 14.4	1.702	2.625	11.5	20.8
7 30	17 37.84	-25 49.3	1.867	2.707	14.6	21.7	7 30	17 40.41	-26 46.2	1.777	2.624	14.9	21.0
186465	2002 <i>TG</i> ₂₂		6 23.1 256°32	1°9/22.9	18		205208	2000 <i>GG</i> ₄₃		6 23.1 76°43	6°6/22.6	18	
5 21	18 36.81	-27 27.2	1.805	2.674	13.6	21.0	5 21	18 37.27	-39 46.0	1.972	2.820	13.4	19.9
5 31	18 30.63	-27 47.4	1.715	2.656	10.1	20.7	5 31	18 30.90	-40 44.4	1.909	2.825	10.7	19.7
6 10	18 21.88	-28 5.3	1.647	2.637	6.2	20.5	6 10	18 21.95	-41 31.6	1.869	2.830	8.2	19.6
6 20	18 11.29	-28 17.8	1.605	2.618	2.4	20.2	6 20	18 11.32	-42 2.5	1.854	2.834	6.7	19.5
6 30	18 0.01	-28 22.5	1.591	2.598	3.8	20.2	6 30	18 0.23	-42 13.5	1.864	2.839	7.2	19.5
7 10	17 49.35	-28 19.0	1.602	2.578	8.1	20.4	7 10	17 50.08	-42 4.9	1.900	2.844	9.3	19.7
7 20	17 40.49	-28 8.9	1.639	2.557	12.2	20.6	7 20	17 41.96	-41 40.0	1.960	2.849	12.0	19.9
7 30	17 34.33	-27 55.0	1.696	2.536	15.8	20.8	7 30	17 36.65	-41 3.7	2.040	2.854	14.5	20.0
336312	2008 <i>TL</i> ₃₉		6 23.1 342°91	0°6/23.1	17		336822	2011 <i>EZ</i> ₃₇		6 23.1 338°34	5°1/23.7	17	
5 21	18 32.84	-22 11.5	1.692	2.571	13.9	21.1	5 21	18 30.45	-11 7.2	1.453	2.327	15.9	20.5
5 31	18 27.49	-22 6.2	1.622	2.569	10.2	20.9	5 31	18 26.03	-11 3.1	1.381	2.319	12.3	20.3
6 10	18 19.87	-22 1.9	1.574	2.567	6.0	20.6	6 10	18 19.18	-11 12.5	1.331	2.312	8.5	20.0
6 20	18 10.77	-21 57.5	1.551	2.566	1.6	20.3	6 20	18 10.68	-11 36.3	1.303	2.306	5.4	19.8
6 30	18 1.29	-21 52.8	1.554	2.564	3.3	20.4	6 30	18 1.63	-12 13.9	1.300	2.300	6.0	19.9
7 10	17 52.62	-21 47.8	1.583	2.563	7.7	20.7	7 10	17 53.33	-13 3.0	1.321	2.295	9.6	20.0
7 20	17 45.73	-21 43.5	1.636	2.562	11.7	20.9	7 20	17 46.84	-14 0.4	1.364	2.291	13.6	20.3
7 30	17 41.35	-21 40.8	1.711	2.562	15.2	21.1	7 30	17 43.00	-15 2.7	1.428	2.287	17.2	20.5
254213	2004 <i>RT</i> ₉₁		6 23.1 290°34	1°2/22.9	18		3547	Serov		6 23.1 196°19	0°2/23.1	18	
5 21	18 31.02	-21 12.0	2.231	3.099	11.4	20.3	5 21	18 35.48	-24 14.9	1.729	2.602	13.8	17.6
5 31	18 25.69	-20 44.3	2.149	3.091	8.4	20.1	5 31	18 29.41	-24 7.8	1.657	2.602	10.2	17.3
6 10	18 18.62	-20 16.6	2.092	3.083	5.0	19.9	6 10	18 21.01	-23 59.4	1.608	2.600	6.0	17.1
6 20	18 10.45	-19 49.2	2.061	3.075	1.7	19.6	6 20	18 11.09	-23 48.4	1.584	2.599	1.4	16.8
6 30	18 1.99	-19 22.9	2.058	3.067	2.9	19.7	6 30	18 0.80	-23 34.4	1.587	2.598	3.2	16.9
7 10	17 54.12	-18 58.7	2.083	3.059	6.5	19.9	7 10	17 51.36	-23 18.3	1.617	2.596	7.7	17.2
7 20	17 47.57	-18 37.6	2.133	3.051	9.8	20.1	7 20	17 43.78	-23 1.7	1.671	2.594	11.7	17.4
7 30	17 42.94	-18 20.7	2.206	3.044	12.7	20.3	7 30	17 38.78	-22 46.4	1.746	2.592	15.2	17.6
363645	2004 <i>RH</i> ₂₂₈		6 23.1 254°49	2°6/23.1	16		325050	2008 <i>CV</i> ₁₅₄		6 23.1 158°53</			

EPHEMERIDES

6 23.1

6 23.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
205712	2002 AB ₆₆	6 23.1	92°14	1°2/23.2	17		167302	2003 UG ₂₁₈	6 23.1	157°42	3°2/23.2	17	
5 21	18 37.60	-20 12.8	1.417	2.295	16.0	21.1	5 21	18 31.96	-15 10.7	1.950	2.814	12.9	20.4
5 31	18 31.09	-20 18.5	1.366	2.312	11.8	20.9	5 31	18 26.54	-14 53.8	1.879	2.815	9.7	20.2
6 10	18 21.99	-20 28.1	1.337	2.329	6.9	20.7	6 10	18 19.22	-14 42.9	1.832	2.816	6.3	19.9
6 20	18 11.31	-20 39.6	1.332	2.346	2.0	20.4	6 20	18 10.70	-14 38.6	1.810	2.817	3.4	19.8
6 30	18 0.41	-20 51.8	1.353	2.363	3.7	20.6	6 30	18 1.87	-14 40.9	1.815	2.818	4.2	19.8
7 10	17 50.69	-21 4.1	1.399	2.379	8.5	20.9	7 10	17 53.71	-14 49.7	1.847	2.819	7.5	20.0
7 20	17 43.21	-21 16.5	1.469	2.395	12.8	21.2	7 20	17 47.02	-15 4.2	1.903	2.819	10.9	20.2
7 30	17 38.66	-21 29.6	1.559	2.411	16.4	21.5	7 30	17 42.44	-15 23.7	1.982	2.820	13.9	20.4
326385	2001 KO ₅₁	6 23.1	347°70	10°2/19.8	17		469571	2003 WU ₄₄	6 23.1	195°83	2°4/23.3	18	
5 21	18 24.61	-14 10.0	0.896	1.811	19.6	19.0	5 21	18 32.13	-14 45.3	2.751	3.599	10.1	22.2
5 31	18 22.69	-11 23.6	0.834	1.792	15.6	18.7	5 31	18 26.23	-14 44.9	2.668	3.596	7.6	22.1
6 10	18 17.61	-8 35.6	0.790	1.775	11.9	18.5	6 10	18 18.88	-14 49.5	2.610	3.592	4.9	21.9
6 20	18 10.36	-5 58.7	0.766	1.761	10.2	18.3	6 20	18 10.61	-14 58.9	2.580	3.587	2.6	21.7
6 30	18 2.47	-3 47.1	0.762	1.749	12.1	18.4	6 30	18 2.06	-15 12.7	2.579	3.582	3.2	21.7
7 10	17 55.68	-2 10.9	0.777	1.740	16.1	18.5	7 10	17 53.93	-15 30.5	2.607	3.576	5.8	21.9
7 20	17 51.37	-1 13.7	0.808	1.734	20.4	18.7	7 20	17 46.86	-15 51.5	2.663	3.569	8.6	22.1
7 30	17 50.48	-0 52.6	0.854	1.730	24.3	19.0	7 30	17 41.34	-16 15.2	2.742	3.562	11.0	22.2
502071	2015 AK ₁₉₁	6 23.1	160°48	2°7/23.1	17		245612	2005 WK ₇₁	6 23.1	238°76	0°4/23.1	18	
5 21	18 37.50	-30 5.9	1.743	2.611	14.0	21.7	5 21	18 31.42	-24 43.8	2.575	3.438	10.2	20.9
5 31	18 30.97	-30 19.4	1.675	2.615	10.4	21.5	5 31	18 25.89	-24 43.3	2.489	3.429	7.5	20.7
6 10	18 21.95	-30 27.1	1.629	2.617	6.5	21.2	6 10	18 18.76	-24 41.6	2.428	3.419	4.4	20.5
6 20	18 11.33	-30 26.1	1.610	2.620	3.1	21.0	6 20	18 10.59	-24 37.8	2.395	3.410	1.1	20.2
6 30	18 0.36	-30 14.8	1.616	2.622	4.1	21.1	6 30	18 2.11	-24 31.4	2.390	3.400	2.4	20.3
7 10	17 50.35	-29 54.2	1.649	2.624	8.0	21.3	7 10	17 54.12	-24 22.6	2.413	3.390	5.7	20.5
7 20	17 42.36	-29 26.9	1.707	2.626	11.8	21.6	7 20	17 47.32	-24 12.2	2.463	3.379	8.7	20.7
7 30	17 37.12	-28 56.6	1.786	2.627	15.1	21.8	7 30	17 42.26	-24 1.5	2.537	3.369	11.4	20.9
141606	2002 JD ₁₀	6 23.1	15°60	23°3/27.6	17		156629	2002 HC	6 23.1	171°57	17°1/18.7	18	
5 21	18 25.45	+17 10.9	1.001	1.801	26.7	18.6	5 21	19 1.15	-52 26.5	1.276	2.088	21.3	20.7
5 31	18 22.77	+19 39.8	0.978	1.808	25.3	18.5	5 31	18 52.57	-55 39.3	1.230	2.092	19.1	20.5
6 10	18 17.35	+21 20.9	0.966	1.817	24.1	18.4	6 10	18 37.04	-58 28.8	1.204	2.096	17.5	20.4
6 20	18 10.23	+22 4.7	0.967	1.828	23.4	18.4	6 20	18 15.44	-60 34.2	1.197	2.098	17.1	20.4
6 30	18 2.84	+21 47.3	0.981	1.841	23.3	18.5	6 30	17 50.95	-61 40.3	1.212	2.100	17.9	20.5
7 10	17 56.61	+20 32.7	1.008	1.855	23.7	18.6	7 10	17 28.31	-61 46.5	1.245	2.100	19.6	20.6
7 20	17 52.65	+18 30.7	1.047	1.872	24.5	18.7	7 20	17 11.44	-61 5.1	1.294	2.100	21.7	20.7
7 30	17 51.65	+15 54.3	1.099	1.889	25.6	18.9	7 30	17 2.19	-59 54.0	1.358	2.099	23.7	20.9
303820	2005 SX ₁₀₀	6 23.1	143°24	4°6/22.9	18		123484	2000 WE ₁₆₆	6 23.1	144°02	2°1/23.2	18	
5 21	18 35.55	-40 18.6	3.028	3.857	9.7	21.8	5 21	18 33.77	-17 47.0	2.075	2.938	12.3	20.5
5 31	18 28.79	-40 51.7	2.963	3.868	7.8	21.6	5 31	18 27.72	-17 36.4	2.009	2.946	9.1	20.3
6 10	18 20.37	-41 15.8	2.923	3.878	5.9	21.5	6 10	18 19.85	-17 29.6	1.965	2.953	5.6	20.1
6 20	18 10.92	-41 28.2	2.910	3.888	4.7	21.5	6 20	18 10.84	-17 26.4	1.949	2.960	2.4	19.9
6 30	18 1.27	-41 27.4	2.925	3.897	5.0	21.5	6 30	18 1.60	-17 26.7	1.960	2.967	3.4	20.0
7 10	17 52.25	-41 13.8	2.968	3.906	6.6	21.6	7 10	17 53.06	-17 30.4	1.999	2.973	6.9	20.2
7 20	17 44.58	-40 49.5	3.037	3.915	8.5	21.8	7 20	17 45.99	-17 37.3	2.063	2.979	10.2	20.4
7 30	17 38.81	-40 17.5	3.129	3.923	10.4	21.9	7 30	17 40.98	-17 47.5	2.150	2.984	13.1	20.6
166391	2002 NA ₁₀	6 23.1	334°51	0°7/23.0	18		383214	2005 YD ₁₄₉	6 23.1	256°10	1°6/23.0	17	
5 21	18 30.54	-24 10.7	1.385	2.277	15.5	18.6	5 21	18 35.14	-26 50.1	1.857	2.728	13.2	21.3
5 31	18 26.38	-23 34.2	1.306	2.260	11.5	18.4	5 31	18 29.29	-27 9.2	1.773	2.716	9.8	21.1
6 10	18 19.52	-22 54.1	1.248	2.244	6.8	18.0	6 10	18 21.06	-27 26.5	1.713	2.703	5.9	20.8
6 20	18 10.80	-22 10.7	1.213	2.228	1.8	17.7	6 20	18 11.19	-27 39.3	1.677	2.691	2.1	20.5
6 30	18 1.52	-21 25.4	1.203	2.214	3.8	17.8	6 30	18 0.76	-27 45.5	1.669	2.677	3.5	20.6
7 10	17 53.10	-20 41.0	1.216	2.200	9.0	18.0	7 10	17 50.98	-27 44.9	1.688	2.664	7.6	20.8
7 20	17 46.74	-20 0.7	1.252	2.188	13.7	18.3	7 20	17 42.94	-27 38.6	1.731	2.651	11.6	21.0
7 30	17 43.31	-19 26.9	1.307	2.177	17.9	18.5	7 30	17 37.42	-27 29.0	1.795	2.637	15.0	21.2
479241	2013 DH ₁₁	6 23.1	211°01	2°1/23.3	18		422982	2003 QE ₁₀₂	6 23.1	292°20	1°7/23.1	17	
5 21	18 30.97	-15 41.1	2.592	3.446	10.4	22.0	5 21	18 34.19	-19 49.5	1.385	2.270	16.0	21.4
5 31	18 25.49	-15 48.3	2.509	3.441	7.8	21.8	5 31	18 29.25	-19 43.1	1.297	2.247	12.0	21.0
6 10	18 18.49	-16 0.7	2.451	3.435	4.9	21.6	6 10	18 21.38	-19 40.6	1.230	2.223	7.3	20.7
6 20	18 10.51	-16 17.7	2.420	3.429	2.4	21.5	6 20	18 11.33	-19 41.5	1.186	2.200	2.5	20.4
6 30	18 2.21	-16 38.7	2.418	3.423	3.1	21.5	6 30	18 0.37	-19 45.1	1.167	2.177	4.2	20.4
7 10	17 54.35	-17 3.0	2.444	3.416	5.9	21.7	7 10	17 50.06	-19 51.2	1.172	2.153	9.5	20.6
7 20	17 47.58	-17 29.6	2.497	3.409	8.8	21.8	7 20	17 41.77	-19 59.9	1.199	2.130	14.6	20.9
7 30	17 42.43	-17 57.9	2.574	3.402	11.4	22.0	7 30	17 36.59	-20 12.0	1.245	2.107	19.0	21.1
437235	2012 XB ₂₀	6 23.1	337°85	1°7/22.9	16		121635	1999 VQ ₂₀₀	6 23.1	251°04	3°2/23.0	18	
5 21	18 31.63	-21 16.6	1.620	2.502	14.2	20.4	5 21	18 33.68	-34 6.5	2.731	3.581	10.1	20.1
5 31	18 26.71	-20 41.0	1.547	2.495	10.5	20.2	5 31	18 27.64	-34 24.3	2.638	3.564	7.7	19.9
6 10	18 19.49	-20 5.3	1.495	2.488	6.3	19.9	6 10	18 19.85	-34 36.1	2.570	3.548	5.2	19.7
6 20	18 10.77	-19 30.3	1.468	2.481	2.2	19.7	6 20	18 10.87	-34 39.3	2.530	3.531	3.4	19.6
6 30	18 1.67	-18 57.3	1.467	2.476	3.7	19.8	6 30	18 1.52	-34 32.6	2.518	3.514	3.9	19.6
7 10	17 53.37	-18 28.1	1.491	2.470	8.1	20.0	7 10	17 52.66	-34 16.2	2.533	3.496	6.3	19.7
7 20	17 46.88	-18 4.1	1.538	2.466	12.3	20.2	7 20	17 45.06	-33 51.6	2.576	3.478	9.0	19.9
7 30	17 42.90	-17 46.7	1.607	2.461	15.8	20.4	7 30	17 39.35	-33 21.6	2.641	3.460	11.4	20.0
383861	2008 QU ₅	6 23.1	273°89	13°9/24.5	18		366259	2013 AA ₇	6 23.1	40°27	2°2/23.3		

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6 23.1

6 23.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
290637	2005 <i>UH</i> ₂₅₁	6 23.1 283°07		1°4/23.2 18			128838	2004 <i>RS</i> ₃₃₂	6 23.1 121°12		1°2/23.3 18		
5 21	18 32.65	-28 26.7	2.219	3.086	11.5	20.4	5 21	18 34.66	-17 38.3	1.824	2.691	13.5	19.5
5 31	18 27.05	-28 19.9	2.136	3.076	8.5	20.2	5 31	18 28.74	-18 19.8	1.755	2.695	10.0	19.3
6 10	18 19.54	-28 8.7	2.077	3.066	5.2	19.9	6 10	18 20.65	-19 8.5	1.710	2.700	6.0	19.1
6 20	18 10.80	-27 51.9	2.044	3.057	1.9	19.7	6 20	18 11.11	-20 1.9	1.691	2.705	1.9	18.8
6 30	18 1.73	-27 29.0	2.039	3.047	3.0	19.8	6 30	18 1.15	-20 57.0	1.699	2.709	3.2	18.9
7 10	17 53.30	-27 1.1	2.062	3.038	6.5	20.0	7 10	17 51.87	-21 50.9	1.735	2.713	7.3	19.2
7 20	17 46.32	-26 30.1	2.110	3.028	9.9	20.2	7 20	17 44.25	-22 41.9	1.796	2.717	11.1	19.4
7 30	17 41.43	-25 58.3	2.181	3.019	12.8	20.3	7 30	17 38.99	-23 29.3	1.879	2.721	14.4	19.7
56657	2000 <i>KY</i> ₅₂	6 23.1 65°45		3°8/23.4 18			177106	2003 <i>FC</i> ₁₃₀	6 23.1 304°65		0°1/23.1 18		
5 21	18 35.35	-15 4.1	1.228	2.111	17.6	19.1	5 21	18 31.30	-23 10.8	2.065	2.937	12.0	20.7
5 31	18 29.78	-14 57.8	1.176	2.122	13.2	18.9	5 31	18 26.15	-23 14.7	1.985	2.929	8.8	20.5
6 10	18 21.41	-15 1.9	1.144	2.133	8.4	18.6	6 10	18 19.07	-23 19.0	1.929	2.922	5.2	20.3
6 20	18 11.27	-15 16.2	1.134	2.144	4.3	18.4	6 20	18 10.73	-23 22.5	1.899	2.914	1.3	20.0
6 30	18 0.79	-15 39.6	1.149	2.155	5.3	18.5	6 30	18 2.00	-23 24.4	1.897	2.907	2.8	20.1
7 10	17 51.49	-16 10.2	1.187	2.166	9.8	18.8	7 10	17 53.87	-23 24.6	1.921	2.900	6.7	20.3
7 20	17 44.52	-16 46.0	1.247	2.178	14.2	19.1	7 20	17 47.19	-23 23.7	1.971	2.893	10.2	20.5
7 30	17 40.66	-17 25.1	1.327	2.189	18.1	19.4	7 30	17 42.60	-23 22.6	2.043	2.887	13.3	20.7
440979	2007 <i>CN</i> ₃₁	6 23.1 252°05		0°5/23.1 18			102075	1999 <i>RC</i> ₁₄₄	6 23.1 212°81		3°0/23.2 18		
5 21	18 30.92	-21 41.5	2.386	3.252	10.8	21.5	5 21	18 38.47	-30 47.4	1.701	2.569	14.3	19.9
5 31	18 25.62	-21 44.5	2.304	3.244	7.9	21.3	5 31	18 31.88	-31 0.0	1.626	2.565	10.8	19.7
6 10	18 18.65	-21 48.6	2.246	3.237	4.7	21.1	6 10	18 22.62	-31 6.2	1.573	2.560	6.8	19.4
6 20	18 10.59	-21 53.1	2.214	3.229	1.2	20.8	6 20	18 11.60	-31 2.5	1.546	2.555	3.4	19.2
6 30	18 2.19	-21 57.3	2.211	3.221	2.5	20.9	6 30	18 0.10	-30 47.1	1.545	2.550	4.4	19.3
7 10	17 54.30	-22 1.1	2.236	3.213	6.0	21.2	7 10	17 49.54	-30 21.2	1.570	2.544	8.3	19.5
7 20	17 47.64	-22 4.6	2.287	3.205	9.2	21.3	7 20	17 41.06	-29 47.8	1.620	2.538	12.3	19.7
7 30	17 42.80	-22 8.5	2.361	3.197	12.0	21.5	7 30	17 35.48	-29 11.2	1.690	2.532	15.8	19.9
472112	2014 <i>BK</i> ₂	6 23.1 281°88		1°8/23.3 17			289889	2005 <i>MX</i> ₃₁	6 23.1 273°09		4°1/23.2 18		
5 21	18 32.44	-17 46.1	1.824	2.695	13.4	21.4	5 21	18 34.98	-35 11.7	2.194	3.050	12.0	20.2
5 31	18 27.16	-17 58.3	1.747	2.689	9.9	21.2	5 31	18 28.97	-35 28.2	2.109	3.037	9.3	19.9
6 10	18 19.75	-18 16.3	1.692	2.682	6.1	21.0	6 10	18 20.78	-35 36.4	2.047	3.024	6.4	19.7
6 20	18 10.88	-18 39.3	1.663	2.676	2.3	20.7	6 20	18 11.16	-35 33.4	2.011	3.011	4.2	19.6
6 30	18 1.55	-19 5.7	1.661	2.670	3.5	20.8	6 30	18 1.10	-35 17.4	2.002	2.998	4.8	19.6
7 10	17 52.85	-19 34.2	1.685	2.663	7.5	21.0	7 10	17 51.73	-34 49.0	2.021	2.985	7.5	19.7
7 20	17 45.72	-20 3.9	1.734	2.657	11.4	21.2	7 20	17 44.00	-34 11.0	2.064	2.972	10.6	19.9
7 30	17 40.90	-20 34.0	1.804	2.651	14.7	21.4	7 30	17 38.62	-33 27.2	2.130	2.958	13.4	20.1
283688	2002 <i>QM</i> ₁₄₆	6 23.1 293°11		2°6/23.0 18			158431	2002 <i>CX</i> ₂	6 23.1 148°89		0°8/23.2 18		
5 21	18 33.98	-29 39.7	1.854	2.725	13.1	20.8	5 21	18 34.52	-19 31.5	1.902	2.770	13.1	20.3
5 31	18 28.43	-29 59.4	1.775	2.717	9.8	20.6	5 31	18 28.56	-19 57.1	1.833	2.774	9.6	20.1
6 10	18 20.55	-30 14.7	1.720	2.708	6.2	20.3	6 10	18 20.51	-20 27.1	1.787	2.778	5.7	19.8
6 20	18 11.08	-30 22.8	1.690	2.700	2.9	20.1	6 20	18 11.09	-20 59.7	1.768	2.782	1.6	19.6
6 30	18 1.14	-30 21.6	1.686	2.692	4.0	20.2	6 30	18 1.29	-21 32.7	1.776	2.786	3.0	19.7
7 10	17 51.93	-30 11.4	1.708	2.683	7.7	20.4	7 10	17 52.19	-22 4.6	1.811	2.789	7.1	19.9
7 20	17 44.49	-29 54.0	1.755	2.675	11.4	20.6	7 20	17 44.69	-22 34.7	1.872	2.792	10.8	20.2
7 30	17 39.59	-29 32.4	1.824	2.667	14.7	20.8	7 30	17 39.49	-23 2.9	1.954	2.795	14.0	20.4
181838	1998 <i>SQ</i> ₁₆₅	6 23.1 313°10		2°5/23.1 18			51423	2001 <i>FJ</i>	6 23.1 32°07		0°4/23.1 17		
5 21	18 29.63	-16 38.7	2.205	3.070	11.6	19.8	5 21	18 34.03	-23 59.9	1.205	2.099	17.1	18.6
5 31	18 24.73	-16 20.5	2.126	3.064	8.7	19.6	5 31	18 29.01	-24 3.1	1.153	2.108	12.6	18.4
6 10	18 18.15	-16 6.3	2.071	3.057	5.5	19.4	6 10	18 21.04	-24 6.2	1.122	2.117	7.4	18.1
6 20	18 10.48	-15 56.7	2.042	3.051	2.8	19.2	6 20	18 11.22	-24 7.3	1.112	2.127	1.8	17.8
6 30	18 2.50	-15 52.0	2.041	3.045	3.6	19.2	6 30	18 1.08	-24 5.0	1.127	2.138	3.9	18.0
7 10	17 55.06	-15 52.2	2.066	3.040	6.7	19.4	7 10	17 52.20	-23 59.8	1.165	2.149	9.2	18.3
7 20	17 48.89	-15 57.3	2.117	3.034	9.9	19.6	7 20	17 45.79	-23 53.3	1.224	2.161	13.9	18.6
7 30	17 44.56	-16 7.0	2.191	3.028	12.8	19.8	7 30	17 42.59	-23 47.3	1.303	2.174	17.8	18.9
249794	2000 <i>YO</i> ₂₁	6 23.1 196°15		7°5/23.9 18			398255	2010 <i>RN</i> ₁₇₄	6 23.1 241°50		2°9/23.1 18		
5 21	18 28.75	+ 3 1.9	2.754	3.543	11.6	21.0	5 21	18 29.87	-14 58.3	2.469	3.326	10.8	21.5
5 31	18 23.74	+ 3 31.3	2.681	3.541	10.0	20.8	5 31	18 24.74	-14 34.6	2.389	3.320	8.1	21.3
6 10	18 17.42	+ 3 46.5	2.630	3.539	8.5	20.7	6 10	18 18.09	-14 15.2	2.333	3.315	5.3	21.1
6 20	18 10.29	+ 3 45.4	2.604	3.537	7.6	20.7	6 20	18 10.49	-14 1.0	2.304	3.309	3.1	20.9
6 30	18 2.94	+ 3 27.2	2.603	3.534	7.7	20.7	6 30	18 2.62	-13 52.5	2.303	3.303	3.8	21.0
7 10	17 55.99	+ 2 52.7	2.628	3.531	8.8	20.7	7 10	17 55.23	-13 49.9	2.329	3.297	6.4	21.1
7 20	17 50.01	+ 2 3.9	2.677	3.528	10.4	20.8	7 20	17 48.97	-13 53.1	2.382	3.291	9.3	21.3
7 30	17 45.46	+ 1 3.8	2.749	3.524	12.1	21.0	7 30	17 44.38	-14 1.7	2.457	3.285	11.9	21.5
206650	2003 <i>YP</i> ₂₃	6 23.1 250°89		2°8/23.1 18			97798	2000 <i>NL</i> ₂₁	6 23.1 338°17		0°5/23.2 18		
5 21	18 35.88	-31 41.5	2.240	3.098	11.7	20.8	5 21	18 30.35	-25 55.0	0.993	1.903	18.6	18.0
5 31	18 29.56	-31 52.1	2.148	3.081	8.8	20.6	5 31	18 27.11	-25 33.3	0.925	1.888	13.9	17.7
6 10	18 21.11	-31 56.8	2.081	3.064	5.7	20.4	6 10	18 20.37	-25 6.7	0.876	1.874	8.3	17.4
6 20	18 11.22	-31 53.0	2.039	3.047	3.0	20.2	6 20	18 11.15	-24 34.0	0.847	1.862	2.1	16.9
6 30	18 0.86	-31 39.2	2.026	3.029	3.9	20.2	6 30	18 1.14	-23 55.6	0.839	1.851	4.5	17.0
7 10	17 51.10	-31 15.9	2.041	3.011	7.0	20.4	7 10	17 52.31	-23 14.5	0.852	1.842	10.7	17.4
7 20	17 42.88	-30 45.3	2.081	2.992	10.4	20.5	7 20	17 46.24	-22 34.9	0.885	1.834	16.4	17.6
7 30	17 36.92	-30 10.6	2.144	2.973	13.3	20.7	7 30	17 43.96	-22 0.4	0.934	1.827	21.3	17.9
100847	1998 <i>HN</i> ₂₆	6 23.1 77°62		0°1/23.1 17			36125	1999 <i>RG</i> ₁₄₇	6 23.1 271°74		1°1/23.2 18		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
349477	2008 <i>DA</i> ₂₄		6 23.1 122°52	4.4/23.0	18		286231	2001 <i>UE</i> ₁₆₄		6 23.1 250°17	4.8/23.2	18	
5 21	18 36.53	-38 44.1	2.878	3.712	10.1	21.9	5 21	18 30.42	-9 56.5	2.268	3.116	11.9	21.0
5 31	18 29.52	-39 15.1	2.820	3.730	7.9	21.8	5 31	18 25.28	-9 26.6	2.186	3.107	9.3	20.8
6 10	18 20.83	-39 37.3	2.787	3.748	5.8	21.7	6 10	18 18.49	-9 4.8	2.128	3.098	6.7	20.6
6 20	18 11.14	-39 48.0	2.781	3.766	4.5	21.6	6 20	18 10.63	-8 52.7	2.096	3.089	4.9	20.5
6 30	18 1.29	-39 45.9	2.804	3.783	4.8	21.6	6 30	18 2.45	-8 51.1	2.091	3.079	5.4	20.5
7 10	17 52.15	-39 31.6	2.854	3.799	6.5	21.8	7 10	17 54.74	-9 0.1	2.112	3.069	7.7	20.6
7 20	17 44.43	-39 7.3	2.931	3.815	8.6	21.9	7 20	17 48.23	-9 18.7	2.159	3.060	10.5	20.8
7 30	17 38.66	-38 36.0	3.031	3.831	10.5	22.1	7 30	17 43.49	-9 45.5	2.228	3.050	13.1	20.9
164154	2003 <i>YE</i> ₁₂₉		6 23.1 226°13	3.8/22.9	18		490725	2010 <i>RE</i> ₁₂₃		6 23.1 272°81	2.0/23.2	17	
5 21	18 36.58	-35 20.5	2.588	3.433	10.7	20.8	5 21	18 35.02	-18 56.6	1.535	2.412	15.1	22.0
5 31	18 29.90	-35 46.5	2.499	3.421	8.3	20.6	5 31	18 29.58	-18 51.1	1.449	2.394	11.3	21.7
6 10	18 21.25	-36 5.6	2.435	3.408	5.8	20.5	6 10	18 21.47	-18 50.0	1.385	2.376	6.9	21.4
6 20	18 11.29	-36 14.6	2.397	3.395	3.9	20.3	6 20	18 11.43	-18 52.9	1.344	2.357	2.6	21.1
6 30	18 0.91	-36 11.6	2.389	3.381	4.5	20.3	6 30	18 0.64	-18 59.2	1.330	2.339	4.1	21.1
7 10	17 51.09	-35 56.8	2.408	3.366	6.9	20.5	7 10	17 50.50	-19 8.5	1.340	2.320	8.9	21.4
7 20	17 42.68	-35 32.2	2.453	3.351	9.5	20.6	7 20	17 42.25	-19 20.6	1.374	2.300	13.5	21.6
7 30	17 36.36	-35 0.7	2.522	3.335	12.0	20.8	7 30	17 36.81	-19 35.9	1.428	2.281	17.5	21.8
345871	2007 <i>QR</i> ₆		6 23.1 337°77	3.2/23.4	16		521393	2015 <i>MG</i> ₁₄₃		6 23.1 305°55	3.8/23.6	18	
5 21	18 28.86	-16 5.5	1.357	2.246	15.9	20.2	5 21	18 30.17	-12 0.6	2.040	2.899	12.6	21.2
5 31	18 25.17	-16 2.5	1.281	2.231	12.0	19.9	5 31	18 25.31	-12 2.1	1.959	2.890	9.7	21.0
6 10	18 18.88	-16 8.3	1.226	2.217	7.6	19.6	6 10	18 18.61	-12 12.9	1.901	2.881	6.5	20.8
6 20	18 10.77	-16 23.3	1.194	2.204	3.7	19.3	6 20	18 10.68	-12 33.4	1.869	2.872	4.0	20.6
6 30	18 2.01	-16 46.7	1.185	2.193	4.8	19.4	6 30	18 2.34	-13 2.8	1.864	2.864	4.6	20.6
7 10	17 53.98	-17 17.2	1.200	2.182	9.3	19.6	7 10	17 54.52	-13 39.9	1.885	2.855	7.5	20.8
7 20	17 47.88	-17 53.0	1.236	2.172	13.9	19.8	7 20	17 48.01	-14 22.9	1.931	2.847	10.8	21.0
7 30	17 44.60	-18 32.1	1.292	2.164	17.9	20.1	7 30	17 43.47	-15 9.8	2.000	2.839	13.8	21.2
123321	2000 <i>VF</i> ₁₇		6 23.1 172°87	2.0/23.2	18		374392	2005 <i>VA</i> ₃		6 23.1 211°54	1.3/23.1	17	
5 21	18 33.69	-17 37.8	2.164	3.025	12.0	20.9	5 21	18 34.90	-20 27.6	1.995	2.860	12.6	22.0
5 31	18 27.69	-17 32.5	2.091	3.027	8.9	20.7	5 31	18 28.80	-20 14.1	1.915	2.855	9.3	21.8
6 10	18 19.89	-17 31.2	2.042	3.030	5.5	20.5	6 10	18 20.65	-20 2.0	1.859	2.849	5.6	21.6
6 20	18 10.94	-17 33.4	2.020	3.031	2.3	20.3	6 20	18 11.17	-19 51.0	1.830	2.843	1.9	21.3
6 30	18 1.71	-17 38.9	2.026	3.033	3.3	20.4	6 30	18 1.31	-19 41.0	1.828	2.837	3.2	21.4
7 10	17 53.10	-17 47.4	2.059	3.033	6.7	20.6	7 10	17 52.10	-19 32.6	1.853	2.830	7.1	21.6
7 20	17 45.88	-17 58.7	2.119	3.034	10.0	20.8	7 20	17 44.45	-19 26.5	1.904	2.822	10.8	21.8
7 30	17 40.66	-18 12.5	2.201	3.033	12.9	21.0	7 30	17 39.01	-19 23.3	1.977	2.814	14.0	22.0
190265	2007 <i>TC</i> ₁₄₉		6 23.1 264°96	2.3/22.9	18		302152	2001 <i>SW</i> ₂₂₀		6 23.1 209°55	7.5/22.6	18	
5 21	18 34.01	-28 34.8	1.989	2.858	12.5	20.6	5 21	18 39.86	-46 22.1	2.482	3.295	12.1	22.0
5 31	18 28.34	-29 0.1	1.909	2.850	9.3	20.4	5 31	18 32.69	-47 15.6	2.409	3.291	10.2	21.9
6 10	18 20.47	-29 22.5	1.853	2.841	5.8	20.2	6 10	18 23.06	-47 55.9	2.358	3.286	8.5	21.7
6 20	18 11.12	-29 39.1	1.822	2.833	2.6	19.9	6 20	18 11.77	-48 17.9	2.333	3.282	7.5	21.7
6 30	18 1.29	-29 47.8	1.819	2.825	3.7	20.0	6 30	17 59.99	-48 18.7	2.333	3.276	7.9	21.7
7 10	17 52.11	-29 48.4	1.842	2.817	7.3	20.2	7 10	17 49.02	-47 58.4	2.359	3.271	9.3	21.8
7 20	17 44.57	-29 42.0	1.891	2.808	10.9	20.4	7 20	17 39.94	-47 20.4	2.408	3.265	11.2	21.9
7 30	17 39.39	-29 31.0	1.961	2.800	14.0	20.6	7 30	17 33.52	-46 29.7	2.479	3.259	13.1	22.0
187481	2006 <i>QU</i> ₁₁₆		6 23.1 210°84	2.5/23.1	17		506572	2005 <i>UB</i> ₁₇₄		6 23.1 271°96	0.5/23.1	17	
5 21	18 35.75	-17 0.8	2.049	2.908	12.6	21.7	5 21	18 34.69	-23 4.3	1.710	2.585	13.9	21.8
5 31	18 29.36	-16 42.5	1.966	2.900	9.5	21.5	5 31	18 29.05	-22 48.6	1.627	2.572	10.3	21.6
6 10	18 20.96	-16 27.9	1.907	2.892	5.9	21.3	6 10	18 20.99	-22 32.0	1.565	2.558	6.1	21.3
6 20	18 11.23	-16 17.4	1.874	2.884	2.8	21.1	6 20	18 11.29	-22 13.9	1.529	2.544	1.6	21.0
6 30	18 1.08	-16 11.2	1.869	2.874	3.8	21.1	6 30	18 1.04	-21 54.2	1.520	2.530	3.3	21.1
7 10	17 51.54	-16 9.6	1.893	2.864	7.4	21.3	7 10	17 51.52	-21 34.0	1.536	2.516	7.9	21.3
7 20	17 43.49	-16 12.7	1.941	2.853	10.9	21.5	7 20	17 43.78	-21 15.0	1.577	2.502	12.2	21.5
7 30	17 37.59	-16 20.5	2.012	2.841	14.1	21.7	7 30	17 38.63	-20 58.8	1.639	2.487	15.9	21.7
338707	2003 <i>UJ</i> ₅₄		6 23.1 303°07	2.9/22.8	18		80926	2000 <i>DG</i> ₇₄		6 23.1 342°35	3.1/23.1	18	
5 21	18 32.55	-18 46.6	1.679	2.555	14.1	20.2	5 21	18 29.64	-18 0.4	1.191	2.088	17.1	18.3
5 31	18 27.52	-17 59.9	1.587	2.531	10.6	19.9	5 31	18 25.98	-17 36.5	1.122	2.077	12.8	18.0
6 10	18 20.12	-17 13.7	1.518	2.508	6.7	19.6	6 10	18 19.45	-17 18.4	1.073	2.067	8.0	17.7
6 20	18 11.06	-16 29.7	1.474	2.484	3.2	19.3	6 20	18 10.94	-17 7.0	1.046	2.058	3.6	17.4
6 30	18 1.40	-15 49.8	1.455	2.461	4.5	19.4	6 30	18 1.81	-17 3.0	1.042	2.050	5.0	17.5
7 10	17 52.34	-15 16.3	1.463	2.438	8.7	19.6	7 10	17 53.60	-17 6.6	1.060	2.043	10.0	17.7
7 20	17 44.96	-14 50.9	1.493	2.415	12.9	19.7	7 20	17 47.61	-17 17.5	1.098	2.038	14.9	18.0
7 30	17 40.08	-14 34.5	1.545	2.393	16.7	19.9	7 30	17 44.73	-17 34.8	1.155	2.034	19.1	18.2
287047	2002 <i>QJ</i> ₁₂₃		6 23.1 174°97	3.5/23.5	18		318566	2005 <i>GV</i> ₁₂₃		6 23.1 212°54	4.3/23.2	17	
5 21	18 28.31	-10 31.7	2.905	3.748	9.8	20.9	5 21	18 34.94	-14 4.3	1.618	2.485	15.0	21.3
5 31	18 23.39	-10 22.5	2.830	3.749	7.5	20.8	5 31	18 29.14	-13 35.0	1.545	2.481	11.4	21.0
6 10	18 17.23	-10 20.3	2.779	3.750	5.3	20.6	6 10	18 20.99	-13 13.2	1.495	2.478	7.6	20.8
6 20	18 10.31	-10 25.3	2.755	3.750	3.6	20.5	6 20	18 11.28	-13 0.2	1.469	2.474	4.5	20.6
6 30	18 3.18	-10 37.8	2.759	3.751	4.0	20.5	6 30	18 1.13	-12 56.8	1.469	2.470	5.4	20.6
7 10	17 56.45	-10 57.0	2.792	3.751	5.9	20.7	7 10	17 51.76	-13 3.2	1.494	2.465	9.0	20.8
7 20	17 50.65	-11 22.1	2.850	3.751	8.2	20.8	7 20	17 44.18	-13 18.5	1.544	2.460	12.9	21.1
7 30	17 46.22	-11 51.9	2.933	3.751	10.4	21.0	7 30	17 39.16	-13 41.4	1.613	2.455	16.4	21.3
115505	2003 <i>UD</i> ₃₂		6 23.1 107°75	1.8/23.2	18		5						

EPHEMERIDES

6 23.1

6 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
103140	1999 <i>XB</i> ₂₀₆		6 23.1 248°39	4°3/22.9	18		100787	1998 <i>FW</i> ₇₀		6 23.2 19°20	7°3/22.9	17	
5 21	18 37.15	-35 20.5	2.241	3.092	12.0	20.2	5 21	18 33.97	-34 51.2	1.016	1.914	19.2	18.3
5 31	18 30.63	-35 47.2	2.151	3.076	9.3	20.0	5 31	18 29.85	-35 56.1	0.971	1.921	14.9	18.1
6 10	18 21.85	-36 6.4	2.084	3.059	6.4	19.8	6 10	18 21.98	-36 49.2	0.945	1.930	10.5	17.9
6 20	18 11.50	-36 14.2	2.044	3.042	4.4	19.7	6 20	18 11.62	-37 22.3	0.939	1.940	7.5	17.7
6 30	18 0.62	-36 8.3	2.031	3.024	5.0	19.7	6 30	18 0.76	-37 30.4	0.954	1.951	8.4	17.8
7 10	17 50.37	-35 49.0	2.046	3.006	7.7	19.8	7 10	17 51.53	-37 14.5	0.990	1.963	12.1	18.1
7 20	17 41.75	-35 18.5	2.086	2.988	10.7	19.9	7 20	17 45.46	-36 40.3	1.046	1.977	16.2	18.4
7 30	17 35.53	-34 40.8	2.148	2.969	13.6	20.1	7 30	17 43.39	-35 55.5	1.118	1.992	20.0	18.6
479957	2014 <i>HP</i> ₁₈₈		6 23.1 12°76	8°0/20.2	17		126105	2001 <i>YK</i> ₁₀₈		6 23.2 269°94	0°8/23.2	18	
5 21	18 39.57	-38 6.8	1.830	2.683	14.1	19.8	5 21	18 36.44	-26 57.0	1.812	2.682	13.5	20.4
5 31	18 33.26	-40 28.9	1.769	2.686	11.4	19.6	5 31	18 30.33	-26 36.1	1.722	2.664	10.0	20.2
6 10	18 23.84	-42 44.1	1.733	2.689	9.0	19.4	6 10	18 21.77	-26 10.0	1.654	2.646	6.0	19.9
6 20	18 12.07	-44 42.6	1.723	2.694	8.0	19.4	6 20	18 11.55	-25 37.7	1.612	2.627	1.7	19.5
6 30	17 59.26	-46 16.2	1.740	2.699	8.9	19.5	6 30	18 0.79	-24 59.3	1.598	2.608	3.2	19.6
7 10	17 47.04	-47 21.8	1.782	2.704	11.2	19.6	7 10	17 50.74	-24 16.5	1.610	2.589	7.7	19.9
7 20	17 36.93	-48 0.8	1.847	2.710	13.8	19.8	7 20	17 42.49	-23 32.5	1.647	2.569	11.9	20.1
7 30	17 30.06	-48 18.4	1.932	2.717	16.1	20.0	7 30	17 36.83	-22 50.5	1.706	2.550	15.6	20.2
98628	2000 <i>WF</i> ₉₉		6 23.1 174°30	1°5/22.9	18		512450	2016 <i>QN</i> ₂₄		6 23.2 240°52	0°2/23.2	18	
5 21	18 35.31	-25 28.7	1.965	2.833	12.7	20.0	5 21	18 33.84	-24 53.5	2.088	2.956	12.1	21.2
5 31	18 29.25	-26 7.8	1.893	2.834	9.3	19.8	5 31	18 28.01	-24 38.8	2.008	2.950	8.9	21.0
6 10	18 21.00	-26 46.9	1.844	2.835	5.6	19.5	6 10	18 20.21	-24 21.9	1.952	2.943	5.2	20.7
6 20	18 11.30	-27 22.9	1.822	2.836	1.9	19.3	6 20	18 11.15	-24 2.1	1.922	2.937	1.3	20.4
6 30	18 1.16	-27 53.1	1.828	2.836	3.3	19.4	6 30	18 1.75	-23 39.4	1.920	2.930	2.8	20.5
7 10	17 51.71	-28 16.3	1.861	2.837	7.2	19.6	7 10	17 53.03	-23 14.8	1.946	2.924	6.7	20.8
7 20	17 43.89	-28 32.7	1.919	2.837	10.8	19.9	7 20	17 45.82	-22 49.9	1.997	2.917	10.3	21.0
7 30	17 38.43	-28 43.8	2.000	2.836	13.9	20.1	7 30	17 40.76	-22 26.7	2.071	2.910	13.4	21.2
92280	2000 <i>DT</i> ₅		6 23.1 310°25	16°5/13.7	18		170740	2004 <i>BE</i> ₁₀₅		6 23.2 67°34	0°4/23.2	17	
5 21	18 50.20	-39 20.1	0.982	1.858	21.7	18.1	5 21	18 35.98	-22 40.9	1.427	2.309	15.7	19.9
5 31	18 45.27	-44 25.4	0.918	1.840	18.6	17.8	5 31	18 30.05	-22 37.3	1.374	2.323	11.5	19.7
6 10	18 33.78	-49 39.4	0.876	1.823	16.6	17.6	6 10	18 21.54	-22 34.5	1.343	2.336	6.7	19.5
6 20	18 15.22	-54 28.8	0.859	1.806	17.0	17.6	6 20	18 11.47	-22 31.0	1.335	2.350	1.7	19.2
6 30	17 51.07	-58 19.3	0.866	1.790	19.5	17.6	6 30	18 1.16	-22 26.4	1.353	2.364	3.5	19.4
7 10	17 25.57	-60 53.1	0.892	1.775	23.1	17.8	7 10	17 51.99	-22 20.9	1.397	2.378	8.3	19.7
7 20	17 4.20	-62 15.3	0.934	1.760	26.7	18.0	7 20	17 45.01	-22 15.7	1.463	2.392	12.6	20.0
7 30	16 51.26	-62 46.3	0.987	1.746	29.7	18.2	7 30	17 40.91	-22 12.1	1.550	2.406	16.2	20.2
281966	2011 <i>GZ</i> ₆₆		6 23.1 76°16	0°9/23.3	17		214453	2005 <i>SO</i> ₇₃		6 23.2 339°03	9°7/20.7	18	
5 21	18 35.26	-18 34.6	1.672	2.544	14.3	20.7	5 21	18 35.22	-42 18.6	1.623	2.479	15.5	18.8
5 31	18 29.27	-19 17.1	1.615	2.558	10.5	20.4	5 31	18 30.50	-44 7.6	1.551	2.465	12.9	18.6
6 10	18 21.00	-20 5.9	1.581	2.572	6.2	20.2	6 10	18 22.43	-45 46.1	1.502	2.451	10.7	18.4
6 20	18 11.29	-20 58.1	1.572	2.587	1.8	20.0	6 20	18 11.82	-47 4.6	1.475	2.439	9.7	18.3
6 30	18 1.25	-21 50.4	1.591	2.601	3.2	20.1	6 30	18 0.12	-47 55.8	1.471	2.427	10.5	18.3
7 10	17 52.07	-22 40.2	1.636	2.615	7.6	20.4	7 10	17 49.18	-48 17.2	1.490	2.416	12.7	18.4
7 20	17 44.73	-23 25.9	1.706	2.630	11.5	20.7	7 20	17 40.66	-48 11.8	1.530	2.407	15.4	18.6
7 30	17 39.91	-24 7.4	1.797	2.644	14.8	20.9	7 30	17 35.76	-47 45.6	1.588	2.398	18.0	18.7
204489	2005 <i>BL</i> ₁₃		6 23.1 227°63	4°0/23.6	18		245527	2005 <i>SY</i> ₁₇₇		6 23.2 244°46	3°1/23.2	17	
5 21	18 32.56	-10 40.3	2.282	3.128	11.9	21.1	5 21	18 39.07	-29 43.1	1.319	2.200	16.8	20.9
5 31	18 26.90	-10 37.4	2.196	3.118	9.3	20.9	5 31	18 33.00	-30 0.1	1.249	2.196	12.6	20.6
6 10	18 19.50	-10 43.4	2.134	3.107	6.4	20.7	6 10	18 23.65	-30 11.2	1.200	2.191	7.9	20.4
6 20	18 10.94	-10 58.9	2.097	3.096	4.2	20.5	6 20	18 12.05	-30 12.0	1.174	2.185	3.6	20.1
6 30	18 1.97	-11 23.6	2.089	3.084	4.7	20.5	6 30	17 59.80	-29 59.8	1.173	2.180	5.0	20.2
7 10	17 53.45	-11 56.5	2.108	3.072	7.3	20.7	7 10	17 48.70	-29 35.8	1.196	2.174	9.8	20.4
7 20	17 46.14	-12 35.9	2.154	3.059	10.3	20.9	7 20	17 40.18	-29 3.7	1.241	2.169	14.5	20.7
7 30	17 40.66	-13 20.2	2.222	3.046	13.1	21.0	7 30	17 35.19	-28 28.6	1.305	2.163	18.6	20.9
98309	2000 <i>SF</i> ₂₅₄		6 23.2 190°25	1°1/23.2	17		220996	2005 <i>NN</i> ₆₁		6 23.2 280°44	0°2/23.2	17	
5 21	18 36.73	-19 56.3	1.649	2.521	14.5	20.0	5 21	18 35.22	-23 52.1	1.642	2.518	14.3	21.5
5 31	18 30.52	-20 6.3	1.577	2.520	10.7	19.8	5 31	18 29.73	-23 54.9	1.551	2.497	10.6	21.2
6 10	18 21.85	-20 20.3	1.528	2.519	6.4	19.5	6 10	18 21.60	-23 57.6	1.482	2.475	6.3	20.9
6 20	18 11.53	-20 36.8	1.504	2.518	1.9	19.2	6 20	18 11.57	-23 58.3	1.439	2.453	1.6	20.5
6 30	18 0.74	-20 54.1	1.506	2.516	3.5	19.3	6 30	18 0.79	-23 55.9	1.421	2.431	3.4	20.6
7 10	17 50.75	-21 11.3	1.535	2.513	8.0	19.6	7 10	17 50.63	-23 50.3	1.429	2.409	8.3	20.9
7 20	17 42.64	-21 28.3	1.588	2.510	12.2	19.8	7 20	17 42.30	-23 42.7	1.461	2.387	12.9	21.1
7 30	17 37.20	-21 45.4	1.662	2.507	15.8	20.1	7 30	17 36.73	-23 35.0	1.513	2.364	16.8	21.3
479804	2014 <i>FD</i> ₂₈		6 23.2 342°70	4°4/23.2	16		297686	2001 <i>UD</i> ₁₈₃		6 23.2 333°03	6°1/22.5	17	
5 21	18 34.76	-34 49.7	1.899	2.763	13.2	21.0	5 21	18 35.28	-37 13.3	1.854	2.714	13.7	20.4
5 31	18 29.03	-35 10.1	1.828	2.760	10.2	20.8	5 31	18 29.72	-38 12.1	1.783	2.709	10.8	20.2
6 10	18 20.93	-35 21.7	1.779	2.758	6.9	20.6	6 10	18 21.53	-39 2.3	1.734	2.704	7.9	20.0
6 20	18 11.30	-35 21.2	1.755	2.756	4.6	20.4	6 20	18 11.53	-39 38.3	1.709	2.699	6.2	19.9
6 30	18 1.29	-35 6.8	1.757	2.754	5.2	20.5	6 30	18 0.94	-39 56.2	1.711	2.694	6.8	19.9
7 10	17 52.15	-34 39.4	1.785	2.752	8.1	20.6	7 10	17 51.15	-39 55.5	1.737	2.690	9.4	20.1
7 20	17 44.89	-34 2.0	1.837	2.750	11.4	20.8	7 20	17 43.34	-39 38.7	1.786	2.686	12.4	20.2
7 30	17 40.22	-33 18.9	1.911	2.749	14.4	21.0	7 30	17 38.36	-39 10.3	1.856	2.683	15.2	20.4
105573	2000 <i>RF</i> ₇₀		6 23.2 167°37	3°0									

EPHEMERIDES

6 23.2

6 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
177019	2003 <i>BW</i> ₅₇		6 23.2 179°00	3°7/23.6	17		477174	2009 <i>FD</i> ₂₈		6 23.2 356°02	2°2/22.8	18	
5 21	18 30.96	-11 23.7	2.357	3.206	11.5	21.1	5 21	18 33.58	-26 41.2	1.902	2.774	12.8	19.7
5 31	18 25.62	-11 19.0	2.282	3.206	8.8	20.9	5 31	18 28.15	-27 33.3	1.830	2.773	9.5	19.5
6 10	18 18.71	-11 22.4	2.232	3.207	6.0	20.7	6 10	18 20.48	-28 25.4	1.782	2.772	5.8	19.2
6 20	18 10.80	-11 34.2	2.207	3.207	3.9	20.6	6 20	18 11.29	-29 13.6	1.760	2.772	2.5	19.0
6 30	18 2.60	-11 54.2	2.211	3.207	4.4	20.6	6 30	18 1.61	-29 54.4	1.765	2.771	3.8	19.1
7 10	17 54.92	-12 21.4	2.242	3.207	6.8	20.8	7 10	17 52.59	-30 26.1	1.797	2.771	7.5	19.3
7 20	17 48.41	-12 54.5	2.299	3.206	9.7	21.0	7 20	17 45.22	-30 48.8	1.853	2.771	11.0	19.5
7 30	17 43.63	-13 32.0	2.379	3.206	12.2	21.1	7 30	17 40.25	-31 4.1	1.932	2.772	14.2	19.7
128008	2003 <i>JQ</i> ₁		6 23.2 287°01	2°5/22.8	18		481179	2005 <i>UD</i> ₂₇₇		6 23.2 280°01	2°1/23.0	18	
5 21	18 32.83	-28 41.0	2.206	3.072	11.6	19.6	5 21	18 32.88	-28 43.0	2.274	3.138	11.3	21.6
5 31	18 27.40	-29 22.9	2.124	3.062	8.6	19.4	5 31	18 27.43	-29 7.1	2.182	3.120	8.4	21.3
6 10	18 19.96	-30 3.0	2.066	3.053	5.4	19.1	6 10	18 19.99	-29 28.7	2.114	3.102	5.3	21.1
6 20	18 11.14	-30 38.2	2.034	3.044	2.7	18.9	6 20	18 11.18	-29 45.2	2.073	3.084	2.4	20.9
6 30	18 1.82	-31 5.7	2.030	3.034	3.7	19.0	6 30	18 1.86	-29 54.7	2.059	3.065	3.4	20.9
7 10	17 53.03	-31 24.6	2.054	3.025	6.9	19.2	7 10	17 53.02	-29 56.9	2.073	3.047	6.7	21.1
7 20	17 45.66	-31 35.2	2.103	3.016	10.1	19.4	7 20	17 45.55	-29 52.5	2.113	3.028	10.0	21.3
7 30	17 40.43	-31 39.3	2.174	3.007	13.0	19.5	7 30	17 40.16	-29 43.5	2.175	3.009	13.0	21.4
392976	2012 <i>XV</i> ₄₂		6 23.2 52°47	1°5/22.9	18		480583	2015 <i>MB</i> ₈₁		6 23.2 125°50	2°0/23.4	18	
5 21	18 33.53	-21 40.0	1.883	2.755	13.0	20.0	5 21	18 34.77	-31 4.1	2.324	3.182	11.3	20.6
5 31	18 27.73	-20 56.8	1.820	2.763	9.5	19.8	5 31	18 28.48	-30 49.3	2.252	3.186	8.4	20.5
6 10	18 19.99	-20 13.1	1.781	2.772	5.7	19.6	6 10	18 20.39	-30 28.1	2.204	3.190	5.2	20.3
6 20	18 11.10	-19 29.8	1.767	2.780	2.0	19.4	6 20	18 11.22	-29 59.2	2.183	3.194	2.4	20.1
6 30	18 2.05	-18 48.6	1.781	2.789	3.3	19.5	6 30	18 1.88	-29 22.8	2.191	3.197	3.1	20.1
7 10	17 53.84	-18 11.2	1.822	2.799	7.2	19.8	7 10	17 53.31	-28 40.5	2.227	3.201	6.3	20.3
7 20	17 47.29	-17 39.4	1.888	2.808	10.7	20.0	7 20	17 46.24	-27 55.0	2.289	3.204	9.3	20.5
7 30	17 42.95	-17 14.1	1.975	2.817	13.8	20.2	7 30	17 41.25	-27 9.0	2.375	3.208	12.1	20.7
263664	2008 <i>GW</i> ₁₀₉		6 23.2 33°17	4°9/23.4	16		28287	Osmanov		6 23.2 315°23	1°1/23.1	18	
5 21	18 29.76	-10 4.0	2.078	2.932	12.6	20.7	5 21	18 32.72	-25 50.0	1.892	2.766	12.8	18.5
5 31	18 24.87	-9 37.5	2.012	2.936	9.8	20.5	5 31	18 27.47	-26 1.7	1.816	2.760	9.5	18.3
6 10	18 18.32	-9 20.2	1.968	2.940	7.0	20.3	6 10	18 20.06	-26 12.1	1.762	2.754	5.6	18.1
6 20	18 10.71	-9 13.5	1.949	2.944	5.0	20.2	6 20	18 11.21	-26 19.1	1.734	2.748	1.7	17.8
6 30	18 2.86	-9 18.0	1.957	2.948	5.5	20.3	6 30	18 1.94	-26 21.4	1.733	2.743	3.1	17.9
7 10	17 55.60	-9 33.3	1.991	2.952	7.9	20.4	7 10	17 53.36	-26 19.0	1.758	2.737	7.2	18.1
7 20	17 49.66	-9 57.9	2.050	2.957	10.7	20.6	7 20	17 46.41	-26 12.8	1.808	2.732	10.9	18.4
7 30	17 45.59	-10 30.0	2.131	2.961	13.3	20.8	7 30	17 41.79	-26 4.7	1.880	2.727	14.2	18.6
93061	Barbaggio		6 23.2 265°77	6°3/22.9	18		257751	2000 <i>BT</i> ₁		6 23.2 307°49	3°9/23.6	18	
5 21	18 38.60	-38 24.5	1.822	2.676	14.1	20.5	5 21	18 32.23	-14 16.3	1.343	2.225	16.5	20.2
5 31	18 32.28	-39 7.4	1.742	2.664	11.2	20.3	5 31	18 28.00	-14 19.6	1.252	2.197	12.7	19.8
6 10	18 23.11	-39 39.8	1.684	2.652	8.3	20.1	6 10	18 20.87	-14 35.0	1.181	2.170	8.3	19.5
6 20	18 11.95	-39 55.9	1.650	2.639	6.4	20.0	6 20	18 11.52	-15 3.1	1.133	2.142	4.4	19.2
6 30	18 0.14	-39 52.2	1.642	2.626	7.0	20.0	6 30	18 1.13	-15 42.9	1.108	2.115	5.4	19.2
7 10	17 49.19	-39 28.7	1.659	2.614	9.6	20.1	7 10	17 51.22	-16 32.4	1.108	2.088	10.1	19.4
7 20	17 40.37	-38 49.2	1.700	2.601	12.8	20.3	7 20	17 43.21	-17 28.5	1.129	2.062	15.1	19.6
7 30	17 34.59	-37 59.2	1.761	2.587	15.9	20.5	7 30	17 38.25	-18 28.6	1.168	2.036	19.7	19.8
309908	2009 <i>EA</i> ₂₉		6 23.2 128°08	1°8/23.1	17		125096	2001 <i>UQ</i> ₃₀		6 23.2 212°41	0°1/23.2	18	
5 21	18 39.67	-27 21.0	1.655	2.524	14.6	21.6	5 21	18 35.59	-22 5.2	1.983	2.848	12.7	20.5
5 31	18 32.61	-27 37.9	1.596	2.538	10.7	21.4	5 31	18 29.49	-22 28.8	1.903	2.843	9.3	20.3
6 10	18 23.03	-27 51.5	1.560	2.550	6.5	21.2	6 10	18 21.23	-22 54.6	1.846	2.837	5.5	20.0
6 20	18 11.87	-27 58.7	1.549	2.562	2.3	21.0	6 20	18 11.52	-23 20.7	1.816	2.831	1.4	19.7
6 30	18 0.44	-27 57.7	1.566	2.574	3.7	21.1	6 30	18 1.31	-23 44.9	1.814	2.824	2.9	19.8
7 10	17 50.08	-27 49.2	1.608	2.585	7.9	21.4	7 10	17 51.71	-24 6.2	1.840	2.817	7.0	20.1
7 20	17 41.86	-27 35.3	1.675	2.595	11.9	21.6	7 20	17 43.67	-24 24.4	1.890	2.809	10.8	20.3
7 30	17 36.45	-27 19.0	1.764	2.605	15.2	21.9	7 30	17 37.92	-24 40.4	1.964	2.801	14.0	20.5
522200	2016 <i>AC</i> ₂₆₂		6 23.2 78°75	0°2/23.2	17		115467	2003 <i>TW</i> ₁₉		6 23.2 190°96	1°6/23.2	18	
5 21	18 37.25	-24 37.8	1.337	2.221	16.4	21.6	5 21	18 33.23	-19 32.3	2.057	2.923	12.3	19.4
5 31	18 31.28	-24 25.1	1.276	2.226	12.1	21.4	5 31	18 27.54	-19 16.9	1.983	2.923	9.1	19.2
6 10	18 22.43	-24 10.5	1.237	2.231	7.1	21.1	6 10	18 19.96	-19 3.8	1.933	2.922	5.5	19.0
6 20	18 11.75	-23 52.6	1.221	2.236	1.8	20.8	6 20	18 11.18	-18 52.8	1.908	2.921	2.1	18.8
6 30	18 0.71	-23 31.2	1.230	2.240	3.7	21.0	6 30	18 2.09	-18 44.0	1.912	2.920	3.2	18.9
7 10	17 50.84	-23 7.8	1.263	2.245	8.9	21.3	7 10	17 53.66	-18 37.7	1.942	2.918	6.8	19.1
7 20	17 43.36	-22 45.0	1.319	2.250	13.6	21.5	7 20	17 46.69	-18 34.4	1.998	2.917	10.3	19.3
7 30	17 39.02	-22 25.1	1.395	2.255	17.5	21.8	7 30	17 41.80	-18 34.5	2.077	2.915	13.4	19.5
441988	2010 <i>NS</i> ₇₁		6 23.2 258°14	4°5/22.7	18		239917	2000 <i>TD</i> ₇		6 23.2 355°23	7°0/22.6	18	
5 21	18 34.29	-36 7.2	2.393	3.244	11.3	20.8	5 21	18 36.89	-41 34.6	2.083	2.924	13.1	20.0
5 31	18 28.44	-36 50.7	2.315	3.238	8.8	20.7	5 31	18 30.75	-42 31.8	2.015	2.924	10.6	19.8
6 10	18 20.55	-37 27.2	2.262	3.233	6.3	20.5	6 10	18 22.09	-43 17.4	1.970	2.923	8.4	19.7
6 20	18 11.29	-37 53.1	2.234	3.227	4.6	20.4	6 20	18 11.73	-43 46.1	1.950	2.923	7.0	19.6
6 30	18 1.60	-38 5.9	2.234	3.221	5.2	20.4	6 30	18 0.88	-43 54.7	1.955	2.923	7.5	19.6
7 10	17 52.50	-38 5.1	2.260	3.215	7.4	20.5	7 10	17 50.88	-43 43.1	1.985	2.922	9.4	19.7
7 20	17 44.90	-37 52.6	2.312	3.209	10.1	20.7	7 20	17 42.82	-43 14.6	2.039	2.922	11.8	19.9
7 30	17 39.48	-37 31.3	2.386	3.203	12.5	20.9	7 30	17 37.50	-42 34.1	2.114	2.923	14.2	20.1
480070	2015 <i>DO</i> ₁₃₈		6 23.2 158°96	4°1/24.0	18		437802	2015 <i>DH</i>					

EPHEMERIDES

6 23.2

6 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
220449	2003 YN ₁₀₉		6 23.2 86°64'	6°0'/24.3	18		508064	2015 CA ₉		6 23.2 280°88'	2°4'/23.3	17	
5 21	18 36.12	-7 18.4	1.589	2.439	16.1	19.7	5 21	18 33.84	-17 47.6	1.583	2.458	14.8	21.7
5 31	18 29.78	-7 19.1	1.541	2.461	12.6	19.5	5 31	18 28.59	-17 38.1	1.506	2.450	11.1	21.4
6 10	18 21.29	-7 35.6	1.515	2.483	9.0	19.4	6 10	18 20.89	-17 33.9	1.451	2.441	6.9	21.2
6 20	18 11.51	-8 8.0	1.512	2.505	6.3	19.3	6 20	18 11.52	-17 34.8	1.420	2.432	2.9	20.9
6 30	18 1.56	-8 55.0	1.536	2.527	6.6	19.3	6 30	18 1.60	-17 40.5	1.415	2.423	4.1	20.9
7 10	17 52.58	-9 53.2	1.585	2.548	9.3	19.5	7 10	17 52.41	-17 50.8	1.435	2.414	8.5	21.2
7 20	17 45.47	-10 58.9	1.658	2.569	12.5	19.8	7 20	17 45.03	-18 5.2	1.479	2.405	12.7	21.4
7 30	17 40.83	-12 8.4	1.753	2.589	15.5	20.0	7 30	17 40.28	-18 23.4	1.543	2.396	16.5	21.6
52663	1998 BV ₁₈		6 23.2 44°60'	0°8'/23.1	17		34516	2000 SF ₁₈₂		6 23.2 301°78'	4°6'/22.6	18	
5 21	18 33.24	-24 21.1	1.718	2.595	13.7	18.8	5 21	18 34.49	-34 0.8	2.011	2.873	12.7	19.0
5 31	18 27.74	-24 41.5	1.670	2.616	10.0	18.6	5 31	18 28.99	-34 52.5	1.931	2.863	9.8	18.8
6 10	18 20.11	-25 1.8	1.645	2.638	5.8	18.5	6 10	18 21.11	-35 38.5	1.874	2.852	6.8	18.5
6 20	18 11.22	-25 19.5	1.645	2.660	1.6	18.2	6 20	18 11.57	-36 14.4	1.843	2.842	4.7	18.4
6 30	18 2.17	-25 33.1	1.672	2.682	3.1	18.4	6 30	18 1.45	-36 36.7	1.838	2.831	5.5	18.4
7 10	17 54.07	-25 42.3	1.724	2.705	7.2	18.7	7 10	17 51.95	-36 44.4	1.860	2.821	8.3	18.6
7 20	17 47.78	-25 47.7	1.801	2.727	10.8	18.9	7 20	17 44.14	-36 39.1	1.905	2.811	11.4	18.7
7 30	17 43.91	-25 50.8	1.900	2.751	13.9	19.2	7 30	17 38.86	-36 24.0	1.972	2.801	14.3	18.9
338627	2003 SC ₂₆₂		6 23.2 294°83'	1°7'/23.1	18		514209	2015 NN ₇		6 23.2 245°88'	0°8'/23.2	18	
5 21	18 32.76	-20 8.8	1.760	2.635	13.6	20.6	5 21	18 32.00	-22 3.8	2.442	3.304	10.7	21.5
5 31	18 27.65	-19 47.2	1.673	2.617	10.1	20.4	5 31	18 26.47	-21 44.6	2.356	3.295	7.9	21.3
6 10	18 20.27	-19 27.2	1.609	2.600	6.2	20.1	6 10	18 19.31	-21 25.1	2.296	3.286	4.7	21.1
6 20	18 11.33	-19 8.8	1.570	2.583	2.2	19.8	6 20	18 11.08	-21 5.2	2.263	3.277	1.4	20.8
6 30	18 1.84	-18 52.5	1.557	2.566	3.6	19.9	6 30	18 2.56	-20 45.2	2.258	3.267	2.6	20.9
7 10	17 52.97	-18 39.1	1.571	2.549	7.9	20.1	7 10	17 54.56	-20 25.7	2.281	3.258	6.0	21.1
7 20	17 45.73	-18 29.6	1.608	2.533	12.0	20.3	7 20	17 47.79	-20 7.9	2.331	3.248	9.1	21.3
7 30	17 40.91	-18 24.7	1.667	2.516	15.6	20.5	7 30	17 42.80	-19 52.6	2.404	3.238	11.9	21.5
19783	Antoniromanya		6 23.2 171°97'	0°2'/23.2	18		400208	2007 BZ ₃₅		6 23.2 237°25'	3°5'/23.8	18	
5 21	18 32.12	-23 26.2	2.647	3.507	10.1	18.8	5 21	18 30.96	-10 42.2	2.440	3.286	11.3	21.1
5 31	18 26.42	-23 35.3	2.572	3.509	7.4	18.6	5 31	18 25.70	-10 54.2	2.357	3.279	8.7	20.9
6 10	18 19.20	-23 44.4	2.521	3.512	4.3	18.4	6 10	18 18.87	-11 15.4	2.298	3.273	5.9	20.8
6 20	18 11.01	-23 52.5	2.499	3.513	1.1	18.2	6 20	18 10.98	-11 45.5	2.266	3.266	3.8	20.6
6 30	18 2.58	-23 58.6	2.505	3.515	2.3	18.3	6 30	18 2.75	-12 23.9	2.262	3.259	4.2	20.6
7 10	17 54.65	-24 2.7	2.539	3.516	5.4	18.5	7 10	17 54.95	-13 8.9	2.286	3.252	6.6	20.8
7 20	17 47.88	-24 5.1	2.601	3.516	8.4	18.7	7 20	17 48.25	-13 58.7	2.336	3.245	9.5	20.9
7 30	17 42.80	-24 6.5	2.686	3.517	10.9	18.9	7 30	17 43.22	-14 51.5	2.410	3.238	12.1	21.1
27601	2001 FC ₂₉		6 23.2 348°82'	23°4'/19.7	18		253715	2003 VM ₅		6 23.2 187°23'	1°3'/23.1	17	
5 21	18 31.28	+13 49.8	0.986	1.797	26.3	18.5	5 21	18 38.05	-25 51.1	1.884	2.750	13.3	21.5
5 31	18 27.43	+16 54.1	0.949	1.793	24.8	18.4	5 31	18 31.40	-26 12.2	1.810	2.750	9.8	21.3
6 10	18 20.48	+19 18.1	0.925	1.790	23.8	18.3	6 10	18 22.41	-26 32.0	1.759	2.749	5.9	21.1
6 20	18 11.42	+20 48.3	0.914	1.788	23.4	18.3	6 20	18 11.88	-26 47.9	1.734	2.747	1.9	20.8
6 30	18 1.74	+21 16.0	0.918	1.786	23.8	18.3	6 30	18 0.89	-26 57.8	1.736	2.745	3.3	20.9
7 10	17 53.16	+20 41.8	0.934	1.785	24.9	18.4	7 10	17 50.66	-27 1.3	1.766	2.743	7.4	21.2
7 20	17 47.01	+19 13.3	0.962	1.784	26.3	18.5	7 20	17 42.21	-26 59.7	1.822	2.739	11.2	21.4
7 30	17 44.24	+17 2.7	1.002	1.785	28.0	18.6	7 30	17 36.29	-26 54.9	1.899	2.735	14.5	21.6
186309	2002 CJ ₁₉₀		6 23.2 107°71'	0°8'/23.2	17		11120	Pancaldi		6 23.2 60°90'	1°5'/23.2	18	
5 21	18 31.76	-20 35.4	2.369	3.232	11.0	21.0	5 21	18 36.13	-21 5.6	1.300	2.186	16.7	17.7
5 31	18 26.22	-20 38.0	2.303	3.242	8.0	20.8	5 31	18 30.44	-20 48.0	1.245	2.195	12.3	17.4
6 10	18 19.10	-20 42.5	2.261	3.252	4.8	20.6	6 10	18 21.97	-20 32.5	1.210	2.203	7.3	17.2
6 20	18 10.99	-20 48.0	2.247	3.261	1.4	20.4	6 20	18 11.76	-20 18.6	1.198	2.212	2.3	16.9
6 30	18 2.68	-20 54.1	2.261	3.271	2.5	20.5	6 30	18 1.24	-20 6.6	1.211	2.222	4.0	17.0
7 10	17 54.97	-21 0.4	2.303	3.280	5.9	20.8	7 10	17 51.89	-19 57.1	1.249	2.231	9.0	17.3
7 20	17 48.54	-21 7.0	2.371	3.289	8.9	21.0	7 20	17 44.87	-19 51.1	1.308	2.240	13.6	17.6
7 30	17 43.90	-21 14.3	2.462	3.298	11.6	21.2	7 30	17 40.90	-19 49.4	1.388	2.250	17.4	17.9
7579	1990 TN ₁		6 23.2 108°11'	11°8'/25.4	18 R		167895	2005 EB ₇₃		6 23.2 344°04'	0°7'/23.1	18	
5 21	18 53.06	-48 21.1	1.163	2.004	21.3	16.7	5 21	18 32.93	-23 47.8	1.738	2.615	13.6	19.6
5 31	18 44.18	-48 46.9	1.110	2.011	17.9	16.5	5 31	18 27.79	-24 11.3	1.666	2.613	10.0	19.3
6 10	18 30.44	-48 43.1	1.074	2.019	14.5	16.3	6 10	18 20.35	-24 35.9	1.617	2.610	5.9	19.1
6 20	18 13.79	-47 59.5	1.059	2.026	12.2	16.2	6 20	18 11.38	-24 59.3	1.593	2.608	1.6	18.8
6 30	17 57.08	-46 32.8	1.065	2.033	12.1	16.2	6 30	18 1.94	-25 19.4	1.595	2.606	3.2	18.9
7 10	17 43.08	-44 30.9	1.093	2.040	14.2	16.3	7 10	17 53.24	-25 35.1	1.624	2.604	7.5	19.2
7 20	17 33.47	-42 8.4	1.143	2.047	17.5	16.6	7 20	17 46.27	-25 46.8	1.676	2.603	11.5	19.4
7 30	17 28.86	-39 40.7	1.211	2.053	20.7	16.8	7 30	17 41.79	-25 55.6	1.750	2.601	14.9	19.6
438930	2010 ET ₄₄		6 23.2 96°58'	0°3'/23.2	17		244307	2002 GL ₉₀		6 23.2 216°50'	2°3'/23.0	18	
5 21	18 34.99	-22 31.3	1.998	2.864	12.6	21.1	5 21	18 32.98	-30 32.5	2.766	3.621	9.8	21.0
5 31	18 28.85	-23 1.1	1.940	2.881	9.2	20.9	5 31	18 27.16	-30 54.2	2.682	3.614	7.4	20.9
6 10	18 20.74	-23 32.5	1.905	2.896	5.4	20.7	6 10	18 19.71	-31 12.3	2.624	3.607	4.7	20.7
6 20	18 11.42	-24 3.1	1.897	2.912	1.3	20.5	6 20	18 11.20	-31 24.5	2.592	3.600	2.5	20.5
6 30	18 1.84	-24 30.8	1.917	2.927	2.8	20.6	6 30	18 2.36	-31 29.5	2.590	3.593	3.2	20.6
7 10	17 53.03	-24 54.5	1.965	2.943	6.6	20.9	7 10	17 54.00	-31 27.3	2.616	3.585	5.8	20.7
7 20	17 45.82	-25 14.4	2.038	2.958	10.1	21.2	7 20	17 46.81	-31 18.7	2.669	3.577	8.5	20.9
7 30	17 40.82	-25 31.1	2.134	2.972	13.1	21.4	7 30	17 41.38	-31 5.7	2.745	3.568	10.9	21.0
49232	1998 SB ₁₄₃		6 23.2 159°46'	0°3'/23.2	18		202236	2004 YF ₃₁		6 23.2 252°99'	8°7'/25.2	18	
5 21	18 36.75</												

EPHEMERIDES

6 23.2

6 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
292598	2006 <i>TT</i> ₁₀₆		6 23.2 140°66	2°8/23.3	17		203325	2001 <i>TC</i> ₁₄₈		6 23.2 218°20	0°5/23.2	17	
5 21	18 31.01	-13 39.7	2.848	3.694	9.8	22.0	5 21	18 38.00	-23 18.1	1.532	2.407	15.2	20.9
5 31	18 25.40	-13 21.7	2.781	3.706	7.4	21.8	5 31	18 31.85	-23 40.1	1.457	2.402	11.3	20.6
6 10	18 18.52	-13 8.5	2.740	3.717	4.9	21.7	6 10	18 22.93	-24 3.9	1.404	2.397	6.7	20.3
6 20	18 10.89	-13 0.6	2.725	3.728	3.0	21.5	6 20	18 12.08	-24 26.5	1.376	2.391	1.7	20.0
6 30	18 3.11	-12 58.2	2.740	3.738	3.5	21.6	6 30	18 0.60	-24 45.4	1.374	2.385	3.6	20.1
7 10	17 55.81	-13 1.3	2.784	3.748	5.7	21.7	7 10	17 49.95	-24 59.5	1.398	2.378	8.5	20.4
7 20	17 49.54	-13 9.4	2.854	3.757	8.1	21.9	7 20	17 41.37	-25 9.3	1.445	2.371	13.0	20.6
7 30	17 44.73	-13 22.0	2.948	3.766	10.4	22.1	7 30	17 35.75	-25 16.6	1.513	2.363	16.9	20.9
483171	2015 <i>PG</i> ₄₃		6 23.2 329°70	0°6/23.3	18		128811	2004 <i>RV</i> ₂₅₅		6 23.2 293°53	4°6/23.9	18	
5 21	18 31.33	-19 38.0	2.149	3.016	11.8	20.3	5 21	18 30.34	- 8 32.4	2.254	3.099	12.1	19.6
5 31	18 26.23	-20 8.8	2.071	3.012	8.7	20.1	5 31	18 25.47	- 8 36.9	2.160	3.079	9.6	19.3
6 10	18 19.29	-20 44.2	2.018	3.009	5.2	19.8	6 10	18 18.87	- 8 52.6	2.089	3.059	6.9	19.1
6 20	18 11.12	-21 22.2	1.991	3.005	1.4	19.6	6 20	18 11.06	- 9 20.2	2.044	3.038	4.8	19.0
6 30	18 2.55	-22 1.0	1.992	3.002	2.7	19.7	6 30	18 2.77	- 9 59.5	2.026	3.018	5.1	19.0
7 10	17 54.50	-22 38.7	2.020	2.999	6.4	19.9	7 10	17 54.84	-10 48.8	2.035	2.998	7.6	19.1
7 20	17 47.76	-23 14.4	2.074	2.996	9.8	20.1	7 20	17 48.04	-11 46.0	2.070	2.978	10.5	19.2
7 30	17 43.01	-23 47.7	2.151	2.993	12.8	20.3	7 30	17 43.02	-12 48.4	2.127	2.958	13.4	19.4
173885	2001 <i>UA</i> ₆₁		6 23.2 217°83	0°5/23.2	17		154532	2003 <i>FV</i> ₁₂₀		6 23.2 116°42	5°5/23.4	17	
5 21	18 32.42	-22 5.3	2.219	3.085	11.5	20.6	5 21	18 34.07	- 9 45.7	1.820	2.672	14.2	20.8
5 31	18 26.92	-22 4.4	2.142	3.082	8.4	20.4	5 31	18 28.20	- 9 12.7	1.760	2.683	11.1	20.7
6 10	18 19.64	-22 4.4	2.089	3.080	5.0	20.2	6 10	18 20.40	- 8 50.2	1.723	2.694	7.9	20.5
6 20	18 11.20	-22 4.3	2.062	3.077	1.3	19.9	6 20	18 11.40	- 8 40.0	1.711	2.704	5.7	20.4
6 30	18 2.44	-22 3.7	2.063	3.074	2.6	20.0	6 30	18 2.17	- 8 42.9	1.725	2.714	6.2	20.4
7 10	17 54.26	-22 2.5	2.092	3.070	6.3	20.2	7 10	17 53.71	- 8 58.1	1.765	2.724	8.8	20.6
7 20	17 47.44	-22 1.2	2.147	3.067	9.7	20.4	7 20	17 46.85	- 9 24.0	1.829	2.734	11.9	20.8
7 30	17 42.58	-22 0.6	2.225	3.064	12.6	20.6	7 30	17 42.19	- 9 58.3	1.914	2.743	14.7	21.0
420307	2011 <i>YL</i> ₂₆		6 23.2 160°17	1°6/23.3	17		159151	2004 <i>XD</i> ₁₀₉		6 23.2 306°64	0°1/23.2	18 R	
5 21	18 37.55	-19 20.7	1.792	2.657	13.8	22.4	5 21	18 32.99	-23 2.7	1.588	2.469	14.4	19.5
5 31	18 30.93	-19 15.9	1.724	2.663	10.2	22.2	5 31	18 28.16	-23 10.8	1.504	2.452	10.7	19.2
6 10	18 22.07	-19 14.2	1.680	2.669	6.2	21.9	6 10	18 20.77	-23 20.3	1.442	2.436	6.4	18.9
6 20	18 11.80	-19 15.1	1.661	2.674	2.2	21.7	6 20	18 11.57	-23 29.3	1.404	2.419	1.6	18.6
6 30	18 1.20	-19 17.8	1.670	2.679	3.4	21.8	6 30	18 1.69	-23 36.5	1.392	2.403	3.4	18.7
7 10	17 51.42	-19 22.2	1.706	2.683	7.6	22.0	7 10	17 52.48	-23 41.2	1.405	2.387	8.2	18.9
7 20	17 43.43	-19 28.5	1.767	2.686	11.4	22.3	7 20	17 45.10	-23 44.2	1.441	2.372	12.7	19.1
7 30	17 37.89	-19 37.2	1.850	2.688	14.7	22.5	7 30	17 40.44	-23 46.6	1.498	2.357	16.6	19.3
520487	2014 <i>KM</i> ₁₁₁		6 23.2 80°64	6°9/23.2	18		302338	2002 <i>AU</i> ₁₁₉		6 23.2 181°35	2°9/23.2	18	
5 21	18 29.12	- 2 43.4	2.393	3.216	12.2	21.4	5 21	18 34.50	-33 13.5	2.683	3.534	10.2	21.5
5 31	18 24.28	- 1 56.4	2.324	3.217	10.1	21.2	5 31	18 28.27	-33 25.1	2.607	3.534	7.7	21.4
6 10	18 17.99	- 1 21.4	2.277	3.217	8.2	21.1	6 10	18 20.36	-33 30.7	2.555	3.535	5.1	21.2
6 20	18 10.78	- 1 0.8	2.256	3.217	7.0	21.0	6 20	18 11.39	-33 28.1	2.531	3.535	3.0	21.1
6 30	18 3.34	- 0 56.2	2.260	3.217	7.3	21.0	6 30	18 2.18	-33 16.5	2.535	3.534	3.6	21.1
7 10	17 56.39	- 1 7.2	2.290	3.217	8.8	21.1	7 10	17 53.57	-32 56.3	2.567	3.533	6.0	21.3
7 20	17 50.54	- 1 32.5	2.343	3.217	10.8	21.3	7 20	17 46.28	-32 29.4	2.626	3.532	8.7	21.4
7 30	17 46.31	- 2 9.5	2.419	3.218	12.9	21.4	7 30	17 40.87	-31 58.3	2.709	3.531	11.1	21.6
203968	2003 <i>SH</i> ₁₅₄		6 23.2 259°78	2°1/23.5	17		152496	2005 <i>WA</i> ₁₀₆		6 23.2 258°04	0°8/23.0	18	
5 21	18 33.31	-16 11.9	1.996	2.858	12.7	20.5	5 21	18 33.13	-23 27.9	2.469	3.330	10.7	20.5
5 31	18 27.85	-16 28.0	1.909	2.845	9.6	20.3	5 31	18 27.50	-24 13.2	2.379	3.317	7.9	20.3
6 10	18 20.34	-16 51.0	1.845	2.832	6.0	20.1	6 10	18 20.07	-25 0.8	2.314	3.304	4.7	20.1
6 20	18 11.41	-17 20.3	1.807	2.818	2.6	19.8	6 20	18 11.39	-25 48.0	2.277	3.291	1.4	19.9
6 30	18 1.94	-17 54.3	1.797	2.804	3.5	19.8	6 30	18 2.20	-26 32.4	2.269	3.278	2.6	19.9
7 10	17 52.96	-18 31.4	1.814	2.790	7.2	20.0	7 10	17 53.40	-27 12.2	2.290	3.265	6.0	20.1
7 20	17 45.37	-19 10.3	1.856	2.776	10.9	20.2	7 20	17 45.76	-27 46.7	2.337	3.251	9.2	20.3
7 30	17 39.93	-19 49.9	1.921	2.762	14.2	20.4	7 30	17 39.97	-28 16.2	2.408	3.237	12.0	20.5
345481	2006 <i>HN</i> ₈₃		6 23.2 300°74	2°1/22.9	18		155206	2005 <i>UP</i> ₄₅₇		6 23.2 214°78	4°7/24.0	18	
5 21	18 34.40	-26 26.4	1.809	2.682	13.3	20.4	5 21	18 34.34	- 9 19.2	1.903	2.751	13.9	20.6
5 31	18 28.95	-27 14.7	1.733	2.676	9.9	20.2	5 31	18 28.58	- 9 29.9	1.825	2.747	10.8	20.4
6 10	18 21.11	-28 3.2	1.680	2.670	6.0	19.9	6 10	18 20.77	- 9 53.4	1.769	2.742	7.5	20.2
6 20	18 11.62	-28 48.1	1.652	2.664	2.5	19.7	6 20	18 11.57	-10 29.8	1.739	2.737	5.0	20.0
6 30	18 1.53	-29 26.0	1.651	2.658	3.8	19.8	6 30	18 1.90	-11 17.9	1.735	2.732	5.3	20.0
7 10	17 52.10	-29 54.8	1.677	2.653	7.8	20.0	7 10	17 52.80	-12 15.3	1.759	2.726	8.2	20.2
7 20	17 44.40	-30 14.9	1.727	2.647	11.6	20.2	7 20	17 45.16	-13 19.1	1.808	2.720	11.6	20.4
7 30	17 39.23	-30 27.9	1.799	2.642	14.9	20.4	7 30	17 39.71	-14 26.3	1.879	2.714	14.7	20.6
362430	2010 <i>RU</i> ₁₀		6 23.2 342°15	4°9/23.1	18		312866	2011 <i>UY</i> ₁₅₂		6 23.2 205°88	4°2/22.9	18	
5 21	18 34.49	-36 36.5	2.075	2.932	12.5	20.5	5 21	18 30.81	-11 58.7	2.357	3.208	11.4	21.0
5 31	18 28.82	-37 5.8	2.003	2.929	9.8	20.3	5 31	18 25.57	-11 16.6	2.282	3.206	8.8	20.8
6 10	18 20.91	-37 26.1	1.953	2.926	7.0	20.1	6 10	18 18.80	-10 40.6	2.232	3.205	6.2	20.7
6 20	18 11.53	-37 33.9	1.929	2.923	5.0	20.0	6 20	18 11.05	-10 12.2	2.207	3.204	4.3	20.5
6 30	18 1.78	-37 26.9	1.931	2.921	5.5	20.0	6 30	18 3.07	- 9 52.8	2.211	3.202	4.9	20.6
7 10	17 52.80	-37 5.7	1.959	2.919	8.0	20.1	7 10	17 55.61	- 9 42.8	2.241	3.200	7.2	20.7
7 20	17 45.57	-36 33.2	2.011	2.917	10.9	20.3	7 20	17 49.33	- 9 42.0	2.297	3.199	9.9	20.9
7 30	17 40.80	-35 53.2	2.086	2.916	13.6	20.5	7 30	17 44.76	- 9 49.6	2.376	3.197	12.4	21.0
139983	2001 <i>SA</i> ₂₈		6 23.2 198°48	0°9/23.3	18								

EPHEMERIDES

6 23.2

6 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
370361	2002 SV ₅₅		6 23.2 286°86	1.7°/23.1	17		521217	2015 GO ₅₂		6 23.2 61°48	2°9/23.2	17	
5 21	18 36.32	-25 34.5	1.563	2.440	14.8	21.3	5 21	18 35.85	-29 57.7	1.701	2.574	14.1	21.3
5 31	18 30.97	-26 7.2	1.468	2.414	11.1	21.0	5 31	18 29.96	-30 19.4	1.641	2.583	10.5	21.1
6 10	18 22.68	-26 41.2	1.395	2.387	6.8	20.7	6 10	18 21.65	-30 35.9	1.604	2.592	6.6	20.9
6 20	18 12.15	-27 12.8	1.346	2.360	2.3	20.4	6 20	18 11.82	-30 44.0	1.592	2.602	3.2	20.7
6 30	18 0.61	-27 38.3	1.323	2.332	4.0	20.4	6 30	18 1.68	-30 42.0	1.606	2.612	4.2	20.8
7 10	17 49.56	-27 55.8	1.326	2.305	9.0	20.6	7 10	17 52.52	-30 30.5	1.646	2.621	7.9	21.0
7 20	17 40.43	-28 5.8	1.352	2.277	13.7	20.8	7 20	17 45.35	-30 11.7	1.710	2.631	11.6	21.3
7 30	17 34.31	-28 10.2	1.397	2.250	17.9	21.0	7 30	17 40.86	-29 48.9	1.795	2.641	14.8	21.5
86149	1999 RA ₁₉₉		6 23.2 277°97	5°3/23.9	18		143554	2003 ED ₃₉		6 23.2 130°27	5°1/24.0	18	
5 21	18 38.66	-40 44.0	2.286	3.122	12.2	19.4	5 21	18 34.44	- 8 41.3	1.855	2.703	14.2	19.9
5 31	18 31.73	-40 41.7	2.201	3.112	9.8	19.2	5 31	18 28.56	- 8 42.5	1.791	2.711	11.1	19.7
6 10	18 22.56	-40 26.2	2.140	3.101	7.3	19.0	6 10	18 20.71	- 8 56.4	1.748	2.719	7.8	19.5
6 20	18 12.01	-39 54.6	2.104	3.091	5.5	18.9	6 20	18 11.59	- 9 23.5	1.731	2.727	5.4	19.4
6 30	18 1.16	-39 5.7	2.095	3.080	5.7	18.9	6 30	18 2.16	-10 2.8	1.741	2.734	5.7	19.4
7 10	17 51.21	-38 1.7	2.114	3.069	7.9	19.0	7 10	17 53.43	-10 52.2	1.777	2.742	8.4	19.6
7 20	17 43.08	-36 46.8	2.159	3.058	10.6	19.2	7 20	17 46.26	-11 48.8	1.839	2.748	11.6	19.8
7 30	17 37.43	-35 26.4	2.227	3.048	13.2	19.3	7 30	17 41.27	-12 49.7	1.922	2.755	14.5	20.0
274465	2008 SS ₆₉		6 23.2 312°19	3°7/23.2	18		332692	2009 QQ ₃₀		6 23.2 287°48	1°6/23.1	18	
5 21	18 32.65	-34 49.2	2.422	3.277	11.0	20.7	5 21	18 35.65	-21 29.3	1.608	2.484	14.6	20.3
5 31	18 27.22	-35 6.3	2.341	3.269	8.5	20.5	5 31	18 30.18	-20 56.9	1.512	2.457	10.9	20.0
6 10	18 19.91	-35 16.4	2.283	3.260	5.8	20.3	6 10	18 22.05	-20 23.5	1.439	2.431	6.7	19.7
6 20	18 11.37	-35 16.8	2.252	3.252	3.8	20.2	6 20	18 12.00	-19 49.1	1.390	2.404	2.3	19.4
6 30	18 2.49	-35 6.1	2.248	3.244	4.4	20.2	6 30	18 1.18	-19 14.9	1.367	2.376	3.9	19.4
7 10	17 54.22	-34 44.9	2.271	3.236	6.8	20.3	7 10	17 50.94	-18 42.7	1.370	2.349	8.8	19.6
7 20	17 47.36	-34 15.2	2.320	3.228	9.6	20.5	7 20	17 42.52	-18 14.7	1.397	2.322	13.4	19.8
7 30	17 42.56	-33 39.9	2.392	3.220	12.1	20.7	7 30	17 36.85	-17 53.0	1.443	2.294	17.5	20.0
452194	2015 RQ ₁₀₀		6 23.2 330°54	5°9/22.8	15		511444	2014 JR ₂₇		6 23.2 338°80	8°0/24.2	18	
5 21	18 33.70	-37 29.2	1.883	2.744	13.4	20.7	5 21	18 29.14	- 0 34.2	2.084	2.906	13.8	20.8
5 31	18 28.65	-38 14.5	1.804	2.731	10.6	20.5	5 31	18 24.57	- 0 6.8	2.012	2.902	11.6	20.6
6 10	18 21.07	-38 50.8	1.748	2.719	7.8	20.3	6 10	18 18.34	+ 0 4.3	1.961	2.898	9.5	20.5
6 20	18 11.71	-39 13.2	1.716	2.707	6.0	20.2	6 20	18 11.00	- 0 3.1	1.934	2.894	8.1	20.4
6 30	18 1.76	-39 18.3	1.709	2.695	6.6	20.2	6 30	18 3.35	- 0 30.0	1.932	2.890	8.2	20.4
7 10	17 52.55	-39 5.8	1.727	2.684	9.1	20.3	7 10	17 56.21	- 1 15.1	1.955	2.887	9.8	20.5
7 20	17 45.23	-38 38.5	1.769	2.674	12.2	20.5	7 20	17 50.31	- 2 15.5	2.001	2.884	12.0	20.6
7 30	17 40.63	-38 0.7	1.831	2.664	15.1	20.7	7 30	17 46.23	- 3 27.1	2.069	2.882	14.3	20.8
386452	2008 WQ ₁₃₇		6 23.2 41°16	0°9/23.3	17		395277	2010 VZ ₃₇		6 23.2 321°74	3°6/22.3	18	
5 21	18 32.96	-19 44.5	1.821	2.693	13.3	20.7	5 21	18 33.54	-28 53.8	1.877	2.749	13.0	20.0
5 31	18 27.65	-20 2.5	1.753	2.696	9.8	20.5	5 31	18 28.55	-30 11.5	1.790	2.731	9.8	19.8
6 10	18 20.25	-20 24.8	1.708	2.700	5.8	20.3	6 10	18 21.08	-31 30.2	1.727	2.713	6.4	19.5
6 20	18 11.47	-20 49.7	1.689	2.703	1.7	20.0	6 20	18 11.77	-32 44.5	1.689	2.696	3.8	19.3
6 30	18 2.32	-21 15.6	1.697	2.707	3.1	20.1	6 30	18 1.63	-33 49.1	1.679	2.679	4.9	19.4
7 10	17 53.88	-21 41.1	1.731	2.711	7.2	20.4	7 10	17 51.94	-34 40.8	1.695	2.663	8.4	19.6
7 20	17 47.06	-22 5.7	1.789	2.715	10.9	20.6	7 20	17 43.85	-35 18.8	1.735	2.647	12.0	19.7
7 30	17 42.54	-22 29.3	1.870	2.719	14.2	20.8	7 30	17 38.32	-35 44.8	1.797	2.632	15.3	19.9
192863	1999 WR ₅		6 23.2 171°29	3°5/22.9	18		294422	2007 VQ ₂₂₃		6 23.2 284°35	1°4/23.1	18	
5 21	18 37.35	-33 21.6	2.449	3.299	11.1	21.3	5 21	18 33.78	-25 34.3	1.925	2.796	12.7	20.7
5 31	18 30.59	-33 58.2	2.376	3.302	8.5	21.2	5 31	18 28.38	-26 5.7	1.845	2.788	9.4	20.5
6 10	18 21.86	-34 29.0	2.328	3.306	5.7	21.0	6 10	18 20.78	-26 37.2	1.788	2.779	5.7	20.2
6 20	18 11.86	-34 50.8	2.307	3.308	3.7	20.9	6 20	18 11.65	-27 6.0	1.757	2.771	1.9	20.0
6 30	18 1.51	-35 1.3	2.315	3.310	4.3	20.9	6 30	18 1.99	-27 29.6	1.753	2.762	3.3	20.0
7 10	17 51.80	-35 0.5	2.350	3.312	6.8	21.1	7 10	17 52.95	-27 46.9	1.776	2.754	7.2	20.3
7 20	17 43.58	-34 50.1	2.412	3.313	9.6	21.2	7 20	17 45.49	-27 58.3	1.824	2.746	11.0	20.5
7 30	17 37.50	-34 32.7	2.497	3.313	12.1	21.4	7 30	17 40.39	-28 5.2	1.894	2.738	14.2	20.7
94633	2001 WX ₁₃		6 23.2 201°96	4°7/23.2	17		352353	2007 VW ₁₆₆		6 23.2 263°20	3°1/22.8	18	
5 21	18 36.30	-13 18.2	1.588	2.452	15.3	19.9	5 21	18 34.83	-29 55.8	2.035	2.900	12.4	21.1
5 31	18 30.30	-12 44.1	1.516	2.450	11.8	19.7	5 31	18 29.12	-30 41.0	1.958	2.896	9.3	20.9
6 10	18 21.90	-12 18.0	1.466	2.447	8.0	19.4	6 10	18 21.20	-31 23.3	1.905	2.891	6.0	20.7
6 20	18 11.90	-12 1.7	1.441	2.444	5.0	19.3	6 20	18 11.75	-31 59.0	1.878	2.886	3.3	20.5
6 30	18 1.44	-11 56.2	1.441	2.440	5.8	19.3	6 30	18 1.80	-32 24.9	1.878	2.881	4.2	20.5
7 10	17 51.78	-12 1.8	1.467	2.436	9.3	19.5	7 10	17 52.47	-32 40.1	1.905	2.875	7.5	20.7
7 20	17 43.95	-12 17.5	1.516	2.431	13.2	19.7	7 20	17 44.75	-32 45.5	1.957	2.870	10.8	20.9
7 30	17 38.73	-12 41.7	1.585	2.426	16.7	19.9	7 30	17 39.39	-32 43.5	2.031	2.865	13.8	21.1
16793	1997 AA ₁₈		6 23.2 228°35	1°5/23.5	18		73269	2002 JS ₅₀		6 23.2 41°87	1°5/23.3	17	
5 21	18 31.74	-17 19.0	2.378	3.237	11.1	17.9	5 21	18 33.50	-20 24.6	1.508	2.389	15.1	18.9
5 31	18 26.39	-17 35.7	2.296	3.232	8.2	17.7	5 31	18 28.22	-20 9.4	1.454	2.402	11.1	18.7
6 10	18 19.38	-17 57.3	2.239	3.227	5.0	17.5	6 10	18 20.61	-19 57.0	1.422	2.414	6.6	18.5
6 20	18 11.25	-18 23.0	2.209	3.221	2.0	17.3	6 20	18 11.57	-19 47.0	1.413	2.427	2.2	18.2
6 30	18 2.77	-18 51.5	2.208	3.216	2.8	17.4	6 30	18 2.31	-19 39.4	1.431	2.441	3.6	18.4
7 10	17 54.74	-19 21.6	2.234	3.210	6.1	17.6	7 10	17 54.04	-19 34.6	1.473	2.455	8.0	18.7
7 20	17 47.91	-19 52.5	2.287	3.204	9.3	17.7	7 20	17 47.74	-19 33.0	1.539	2.469	12.1	18.9
7 30	17 42.85	-20 23.6	2.363	3.198	12.1	17.9	7 30	17 44.04	-19 35.0	1.626	2.484	15.5	19.2
137279	1999 RP ₁₆₈		6 23.2 307°84	5°5/23.1	18		380914	2006 EE ₃₀		6 23.2 181°37	1°1/23.2	17	

EPHEMERIDES

6 23.2

6 23.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
237598	2001 <i>KO</i> ₆₇		6 23.2	22°13'	1.6°/23.3	17	97092	1999 <i>VP</i> ₅₉		6 23.3	267°25'	0.3°/23.2	18
5 21	18 31.72	-19 37.2	1.503	2.387	15.0	20.0	5 21	18 34.11	-23 58.1	1.881	2.753	13.0	20.2
5 31	18 27.01	-19 31.7	1.445	2.393	11.0	19.8	5 31	18 28.60	-24 2.5	1.801	2.744	9.6	20.0
6 10	18 19.96	-19 30.3	1.408	2.400	6.6	19.5	6 10	18 20.89	-24 6.6	1.743	2.735	5.7	19.7
6 20	18 11.43	-19 32.4	1.395	2.408	2.3	19.3	6 20	18 11.69	-24 8.9	1.711	2.726	1.4	19.4
6 30	18 2.58	-19 37.3	1.407	2.417	3.6	19.4	6 30	18 2.03	-24 8.5	1.707	2.717	3.0	19.5
7 10	17 54.65	-19 44.8	1.444	2.426	8.1	19.7	7 10	17 53.02	-24 5.3	1.728	2.708	7.2	19.8
7 20	17 48.61	-19 54.6	1.504	2.436	12.2	20.0	7 20	17 45.63	-24 0.2	1.775	2.699	11.1	20.0
7 30	17 45.14	-20 6.7	1.585	2.447	15.7	20.2	7 30	17 40.60	-23 54.8	1.843	2.689	14.5	20.2
508880	2003 <i>SL</i> ₇₀		6 23.2	259°31'	4.9°/22.8	18	299663	2006 <i>OO</i> ₂₁		6 23.3	299°75'	6.5°/21.8	18
5 21	18 37.96	-35 58.7	2.155	3.005	12.4	21.9	5 21	18 36.87	-36 47.7	1.873	2.731	13.6	20.0
5 31	18 31.58	-36 40.0	2.063	2.986	9.7	21.7	5 31	18 31.26	-38 9.5	1.790	2.714	10.8	19.8
6 10	18 22.75	-37 14.2	1.994	2.966	6.9	21.5	6 10	18 22.82	-39 25.4	1.730	2.698	8.1	19.6
6 20	18 12.17	-37 36.5	1.951	2.946	5.0	21.3	6 20	18 12.27	-40 28.6	1.694	2.681	6.5	19.5
6 30	18 0.91	-37 43.8	1.936	2.925	5.6	21.3	6 30	18 0.81	-41 13.2	1.685	2.665	7.3	19.5
7 10	17 50.23	-37 35.6	1.947	2.904	8.3	21.4	7 10	17 49.91	-41 37.2	1.701	2.649	9.9	19.6
7 20	17 41.22	-37 13.8	1.983	2.882	11.4	21.6	7 20	17 40.90	-41 42.0	1.740	2.633	13.0	19.8
7 30	17 34.75	-36 42.5	2.041	2.860	14.2	21.7	7 30	17 34.82	-41 31.6	1.800	2.617	15.9	19.9
424483	2008 <i>DM</i> ₆		6 23.2	356°69'	4.3°/23.4	17	477870	2011 <i>HO</i> ₃₇		6 23.3	327°37'	4.5°/22.2	16
5 21	18 36.33	-32 36.1	1.284	2.169	16.9	20.5	5 21	18 35.12	-28 52.8	1.489	2.370	15.2	20.3
5 31	18 31.12	-32 47.6	1.220	2.166	12.9	20.3	5 31	18 30.23	-30 23.4	1.413	2.358	11.5	20.0
6 10	18 22.70	-32 49.4	1.177	2.165	8.4	20.0	6 10	18 22.33	-31 55.5	1.359	2.347	7.5	19.8
6 20	18 12.15	-32 37.2	1.156	2.164	4.6	19.8	6 20	18 12.17	-33 22.0	1.329	2.336	4.6	19.6
6 30	18 1.10	-32 9.2	1.158	2.163	5.6	19.8	6 30	18 1.03	-34 35.4	1.325	2.325	6.0	19.6
7 10	17 51.30	-31 27.7	1.185	2.163	9.8	20.1	7 10	17 50.54	-35 31.7	1.346	2.315	9.9	19.8
7 20	17 44.10	-30 37.5	1.233	2.164	14.3	20.3	7 20	17 42.15	-36 10.2	1.389	2.306	14.1	20.0
7 30	17 40.35	-29 44.5	1.300	2.166	18.2	20.6	7 30	17 36.97	-36 33.7	1.452	2.297	17.7	20.2
236452	2006 <i>EA</i> ₁₉		6 23.2	13°12'	2.9°/23.1	17	505432	2013 <i>RS</i> ₈₃		6 23.3	327°04'	2.6°/23.3	17
5 21	18 35.03	-29 36.4	1.699	2.574	14.0	20.5	5 21	18 35.23	-29 17.0	1.365	2.251	16.1	21.2
5 31	18 29.49	-30 3.2	1.632	2.574	10.5	20.3	5 31	18 30.19	-29 21.1	1.294	2.242	12.1	20.9
6 10	18 21.47	-30 25.7	1.587	2.575	6.6	20.1	6 10	18 22.15	-29 19.3	1.242	2.234	7.5	20.7
6 20	18 11.83	-30 40.5	1.566	2.576	3.2	19.8	6 20	18 12.07	-29 8.4	1.214	2.226	3.1	20.4
6 30	18 1.74	-30 45.2	1.572	2.578	4.3	19.9	6 30	18 1.38	-28 46.9	1.210	2.219	4.4	20.4
7 10	17 52.53	-30 40.0	1.604	2.579	8.0	20.1	7 10	17 51.71	-28 16.2	1.230	2.212	9.2	20.7
7 20	17 45.26	-30 26.7	1.659	2.581	11.8	20.4	7 20	17 44.38	-27 39.8	1.273	2.206	13.8	20.9
7 30	17 40.69	-30 8.5	1.735	2.583	15.1	20.6	7 30	17 40.27	-27 2.1	1.335	2.200	17.8	21.2
101781	Gojira		6 23.3	208°58'	8.1°/23.4	18	412273	2013 <i>JY</i> ₄		6 23.3	67°52'	3.7°/23.1	17
5 21	18 32.99	-1 37.1	2.056	2.876	14.0	18.9	5 21	18 38.65	-29 35.7	1.293	2.177	16.9	20.7
5 31	18 27.41	-0 49.2	1.981	2.871	11.7	18.7	5 31	18 32.74	-30 15.4	1.236	2.183	12.7	20.5
6 10	18 20.03	-0 15.9	1.929	2.866	9.5	18.5	6 10	18 23.65	-30 50.3	1.200	2.189	8.0	20.3
6 20	18 11.45	-0 0.1	1.901	2.861	8.2	18.5	6 20	18 12.43	-31 15.2	1.186	2.196	4.0	20.0
6 30	18 2.52	-0 3.9	1.898	2.855	8.5	18.5	6 30	18 0.71	-31 26.3	1.197	2.202	5.3	20.1
7 10	17 54.14	-0 26.8	1.921	2.848	10.2	18.5	7 10	17 50.23	-31 23.6	1.232	2.209	9.7	20.4
7 20	17 47.08	-1 6.5	1.967	2.841	12.6	18.7	7 20	17 42.35	-31 10.1	1.288	2.216	14.1	20.7
7 30	17 41.97	-1 59.5	2.034	2.834	15.0	18.8	7 30	17 37.93	-30 50.3	1.364	2.223	17.9	20.9
78426	2002 <i>QY</i> ₄₄		6 23.3	339°52'	2.0°/23.2	18	184219	2004 <i>RU</i> ₄₅		6 23.3	82°87'	7.8°/24.3	16
5 21	18 30.88	-26 53.6	1.100	2.004	17.7	18.6	5 21	18 29.57	+ 1 8.7	2.354	3.160	12.9	20.1
5 31	18 27.51	-27 4.0	1.031	1.990	13.2	18.3	5 31	18 24.67	+ 1 37.4	2.290	3.166	10.9	20.0
6 10	18 20.82	-27 11.7	0.980	1.977	8.0	18.0	6 10	18 18.31	+ 1 50.5	2.247	3.171	9.1	19.9
6 20	18 11.75	-27 13.4	0.951	1.965	2.8	17.6	6 20	18 11.04	+ 1 46.1	2.229	3.176	7.9	19.8
6 30	18 1.87	-27 6.8	0.944	1.954	4.6	17.7	6 30	18 3.55	+ 1 23.4	2.236	3.182	8.0	19.8
7 10	17 53.03	-26 52.3	0.958	1.945	10.2	18.0	7 10	17 56.56	+ 0 43.6	2.268	3.187	9.3	19.9
7 20	17 46.76	-26 32.6	0.993	1.938	15.5	18.3	7 20	17 50.71	+ 0 10.7	2.324	3.192	11.1	20.0
7 30	17 44.09	-26 11.1	1.044	1.931	20.0	18.5	7 30	17 46.50	- 1 15.8	2.402	3.198	13.1	20.2
430205	2013 <i>TW</i> ₁₄₂		6 23.3	243°26'	1.7°/23.2	17	213420	2001 <i>XJ</i> ₃₉		6 23.3	262°32'	5.0°/22.6	18
5 21	18 34.78	-19 43.0	1.770	2.641	13.7	21.3	5 21	18 36.06	-36 26.7	2.286	3.136	11.8	20.2
5 31	18 29.11	-19 27.0	1.692	2.634	10.2	21.1	5 31	18 30.06	-37 18.8	2.201	3.123	9.3	20.0
6 10	18 21.18	-19 13.0	1.637	2.627	6.2	20.8	6 10	18 21.81	-38 4.2	2.141	3.110	6.7	19.8
6 20	18 11.76	-19 1.3	1.606	2.619	2.3	20.6	6 20	18 11.97	-38 38.3	2.106	3.097	5.1	19.7
6 30	18 1.88	-18 51.9	1.603	2.612	3.6	20.6	6 30	18 1.55	-38 58.1	2.099	3.084	5.7	19.7
7 10	17 52.71	-18 45.3	1.626	2.604	7.7	20.9	7 10	17 51.68	-39 2.5	2.118	3.070	8.0	19.8
7 20	17 45.22	-18 42.1	1.674	2.596	11.7	21.1	7 20	17 43.36	-38 53.4	2.162	3.057	10.8	20.0
7 30	17 40.15	-18 42.8	1.742	2.588	15.2	21.3	7 30	17 37.40	-38 33.9	2.228	3.043	13.4	20.1
198487	2004 <i>XP</i> ₅₇		6 23.3	113°51'	0.3°/23.2	18	364570	2007 <i>QL</i> ₅		6 23.3	295°54'	4.4°/23.6	17
5 21	18 35.50	-23 33.9	2.029	2.895	12.4	20.2	5 21	18 33.88	-13 47.1	1.304	2.185	17.0	21.0
5 31	18 29.20	-23 16.1	1.966	2.907	9.1	20.0	5 31	18 29.30	-13 39.5	1.220	2.164	13.1	20.7
6 10	18 21.00	-22 57.2	1.928	2.918	5.3	19.8	6 10	18 21.78	-13 43.4	1.156	2.143	8.7	20.4
6 20	18 11.67	-22 36.7	1.915	2.930	1.4	19.5	6 20	18 12.04	-14 0.0	1.114	2.121	4.9	20.1
6 30	18 2.16	-22 15.0	1.931	2.941	2.8	19.7	6 30	18 1.35	-14 29.0	1.095	2.101	5.8	20.1
7 10	17 53.47	-21 53.0	1.974	2.952	6.6	19.9	7 10	17 51.26	-15 8.8	1.101	2.080	10.4	20.3
7 20	17 46.38	-21 32.2	2.043	2.963	10.1	20.2	7 20	17 43.19	-15 56.8	1.128	2.059	15.3	20.5
7 30	17 41.47	-21 13.9	2.135	2.973	13.0	20.4	7 30	17 38.23	-16 50.5	1.173	2.039	19.7	20.7
166535	2002 <i>RU</i> ₂₁		6 23.3	238°02'	1.1°/23.3	18	169						

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6 23.3

6 23.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
9606	1992 BZ		6 23.3 166°58	0°6/23.2	18		481308	2005 YA ₂₄₈		6 23.3 225°54	0°5/23.2	18	
5 21	18 37.03	-24 2.2	1.886	2.752	13.2	18.5	5 21	18 31.94	-24 35.6	2.914	3.771	9.3	22.7
5 31	18 30.66	-24 19.2	1.815	2.756	9.7	18.3	5 31	18 26.38	-24 50.9	2.824	3.760	6.9	22.5
6 10	18 22.06	-24 36.3	1.768	2.759	5.7	18.1	6 10	18 19.35	-25 5.8	2.760	3.750	4.1	22.3
6 20	18 12.01	-24 51.2	1.747	2.762	1.5	17.8	6 20	18 11.34	-25 19.2	2.724	3.739	1.1	22.1
6 30	18 1.58	-25 2.4	1.754	2.764	3.0	17.9	6 30	18 3.01	-25 29.9	2.718	3.727	2.2	22.2
7 10	17 51.91	-25 9.3	1.788	2.766	7.2	18.2	7 10	17 55.06	-25 37.6	2.740	3.715	5.2	22.4
7 20	17 43.97	-25 12.8	1.847	2.768	10.9	18.4	7 20	17 48.13	-25 42.6	2.789	3.703	7.9	22.5
7 30	17 38.45	-25 14.3	1.929	2.768	14.2	18.6	7 30	17 42.75	-25 45.6	2.863	3.690	10.4	22.7
139701	2001 QH ₂₂₆		6 23.3 206°04	3°0/23.2	17		423054	2003 UM ₃₁₆		6 23.3 283°20	1°3/23.3	18	
5 21	18 31.99	-15 27.9	2.222	3.080	11.8	20.1	5 21	18 36.00	-20 28.4	1.524	2.401	15.2	21.4
5 31	18 26.60	-15 1.6	2.146	3.078	8.9	19.9	5 31	18 30.68	-20 25.2	1.429	2.374	11.4	21.1
6 10	18 19.52	-14 39.9	2.094	3.076	5.8	19.7	6 10	18 22.53	-20 25.1	1.356	2.348	6.9	20.7
6 20	18 11.36	-14 23.4	2.068	3.074	3.2	19.5	6 20	18 12.25	-20 27.3	1.307	2.321	2.2	20.4
6 30	18 2.92	-14 12.9	2.070	3.072	3.9	19.6	6 30	18 1.03	-20 30.7	1.283	2.293	3.8	20.4
7 10	17 55.04	-14 8.7	2.100	3.069	6.9	19.8	7 10	17 50.34	-20 35.1	1.285	2.265	9.0	20.6
7 20	17 48.45	-14 10.6	2.154	3.067	10.0	19.9	7 20	17 41.50	-20 40.9	1.309	2.237	13.9	20.8
7 30	17 43.71	-14 18.3	2.232	3.064	12.8	20.1	7 30	17 35.58	-20 49.0	1.354	2.209	18.2	21.0
24028	Veronicaduys		6 23.3 186°74	1°7/23.2	18		172370	2002 XL ₈₅		6 23.3 137°92	4°0/22.5	18	
5 21	18 36.09	-28 20.8	2.364	3.222	11.2	20.5	5 21	18 36.55	-32 13.7	2.196	3.053	11.9	19.5
5 31	18 29.64	-28 31.6	2.286	3.221	8.3	20.3	5 31	18 30.32	-33 20.0	2.127	3.057	9.1	19.3
6 10	18 21.33	-28 39.0	2.233	3.220	5.1	20.1	6 10	18 21.91	-34 22.3	2.082	3.061	6.1	19.1
6 20	18 11.82	-28 41.0	2.207	3.219	2.0	19.9	6 20	18 12.02	-35 15.9	2.064	3.065	4.1	19.0
6 30	18 1.99	-28 36.5	2.210	3.217	3.0	20.0	6 30	18 1.64	-35 57.1	2.075	3.068	4.9	19.0
7 10	17 52.78	-28 25.8	2.241	3.214	6.2	20.2	7 10	17 51.88	-36 24.7	2.112	3.072	7.5	19.2
7 20	17 45.01	-28 10.3	2.298	3.211	9.4	20.4	7 20	17 43.69	-36 39.5	2.175	3.075	10.5	19.4
7 30	17 39.28	-27 52.2	2.379	3.208	12.2	20.5	7 30	17 37.83	-36 44.2	2.260	3.078	13.1	19.6
460953	2014 WO ₂₆₉		6 23.3 350°28	2°9/23.7	17		5541	Seimei		6 23.3 254°70	5°4/23.2	18	
5 21	18 32.47	-15 45.5	1.158	2.050	17.8	20.2	5 21	18 29.71	-6 45.8	2.570	3.403	11.1	17.6
5 31	18 28.31	-16 3.9	1.094	2.045	13.5	19.9	5 31	18 24.79	-6 10.6	2.484	3.391	9.0	17.4
6 10	18 21.13	-16 34.6	1.049	2.041	8.4	19.6	6 10	18 18.43	-5 44.3	2.423	3.380	6.8	17.3
6 20	18 11.85	-17 16.5	1.026	2.038	3.6	19.3	6 20	18 11.12	-5 28.7	2.388	3.367	5.5	17.2
6 30	18 1.87	-18 6.6	1.026	2.036	4.8	19.4	6 30	18 3.51	-5 24.8	2.379	3.355	5.8	17.2
7 10	17 52.84	-19 1.4	1.049	2.034	9.9	19.7	7 10	17 56.29	-5 32.8	2.398	3.343	7.6	17.3
7 20	17 46.12	-19 57.6	1.093	2.033	14.9	20.0	7 20	17 50.08	-5 51.7	2.442	3.330	9.9	17.4
7 30	17 42.66	-20 52.8	1.156	2.034	19.2	20.2	7 30	17 45.41	-6 19.9	2.508	3.317	12.2	17.5
7648	Tomboles		6 23.3 211°70	2°0/23.2	18		306955	2001 UA ₁₈₈		6 23.3 198°33	1°4/23.4	18	
5 21	18 39.85	-27 13.0	1.509	2.383	15.5	17.9	5 21	18 35.39	-18 42.1	2.252	3.109	11.7	21.7
5 31	18 33.38	-27 34.1	1.435	2.378	11.5	17.7	5 31	18 29.17	-18 49.1	2.171	3.106	8.7	21.5
6 10	18 23.97	-27 52.8	1.383	2.373	7.0	17.4	6 10	18 21.10	-18 59.7	2.114	3.102	5.3	21.3
6 20	18 12.54	-28 5.2	1.355	2.368	2.6	17.1	6 20	18 11.81	-19 12.9	2.084	3.097	1.9	21.1
6 30	18 0.47	-28 8.7	1.353	2.362	4.1	17.2	6 30	18 2.13	-19 27.9	2.083	3.091	2.9	21.1
7 10	17 49.34	-28 3.2	1.377	2.356	8.8	17.5	7 10	17 52.98	-19 43.9	2.110	3.085	6.4	21.4
7 20	17 40.44	-27 50.9	1.425	2.349	13.3	17.7	7 20	17 45.18	-20 0.7	2.163	3.078	9.8	21.6
7 30	17 34.67	-27 35.2	1.492	2.341	17.1	17.9	7 30	17 39.35	-20 18.3	2.240	3.070	12.8	21.7
182943	2002 GG ₀₁		6 23.3 234°34	7°1/23.4	18		107811	2001 FO ₅₉		6 23.3 63°06	3°0/23.6	17	
5 21	18 29.61	-1 2.5	2.522	3.334	12.0	20.4	5 21	18 34.93	-15 29.1	1.439	2.315	16.0	19.9
5 31	18 24.69	-0 21.2	2.445	3.328	10.0	20.3	5 31	18 29.52	-15 36.0	1.378	2.320	12.0	19.6
6 10	18 18.35	+0 7.6	2.390	3.321	8.3	20.2	6 10	18 21.56	-15 52.2	1.337	2.325	7.6	19.4
6 20	18 11.07	+0 21.5	2.361	3.315	7.2	20.1	6 20	18 11.94	-16 16.9	1.320	2.330	3.6	19.2
6 30	18 3.52	+0 19.3	2.357	3.308	7.4	20.1	6 30	18 1.88	-16 48.7	1.328	2.335	4.5	19.2
7 10	17 56.40	+0 1.0	2.379	3.301	8.8	20.2	7 10	17 52.73	-17 25.3	1.361	2.340	8.8	19.5
7 20	17 50.30	-0 31.5	2.426	3.293	10.7	20.3	7 20	17 45.57	-18 5.0	1.417	2.346	13.0	19.8
7 30	17 45.75	-1 15.9	2.494	3.286	12.7	20.4	7 30	17 41.19	-18 46.1	1.494	2.351	16.7	20.0
241747	2001 AB ₂₇		6 23.3 199°57	1°5/23.1	18		254977	2005 SL ₂₅₁		6 23.3 320°44	5°0/22.9	18	
5 21	18 32.70	-28 9.5	3.147	3.998	8.8	21.2	5 21	18 34.60	-35 29.4	1.921	2.783	13.2	20.3
5 31	18 26.84	-28 32.7	3.062	3.994	6.5	21.0	5 31	18 29.23	-36 10.0	1.843	2.774	10.2	20.1
6 10	18 19.57	-28 53.7	3.003	3.989	4.0	20.9	6 10	18 21.42	-36 42.8	1.789	2.764	7.2	19.9
6 20	18 11.38	-29 11.0	2.973	3.984	1.7	20.7	6 20	18 11.92	-37 3.5	1.759	2.755	5.2	19.8
6 30	18 2.90	-29 23.3	2.972	3.978	2.5	20.7	6 30	18 1.88	-37 9.1	1.755	2.747	5.8	19.8
7 10	17 54.82	-29 30.2	3.001	3.972	5.0	20.9	7 10	17 52.57	-36 59.3	1.776	2.738	8.5	19.9
7 20	17 47.73	-29 32.3	3.057	3.965	7.5	21.1	7 20	17 45.07	-36 36.6	1.821	2.730	11.7	20.1
7 30	17 42.15	-29 30.6	3.138	3.957	9.7	21.2	7 30	17 40.20	-36 5.0	1.888	2.723	14.6	20.3
255101	2005 UB ₆₆		6 23.3 183°71	2°8/23.2	17		84905	2003 UD ₉₈		6 23.3 219°59	0°1/23.3	18	
5 21	18 31.10	-15 44.4	2.374	3.232	11.1	20.4	5 21	18 30.80	-21 26.8	2.801	3.660	9.6	19.7
5 31	18 25.85	-15 16.7	2.300	3.232	8.4	20.2	5 31	18 25.56	-21 52.8	2.719	3.656	7.0	19.5
6 10	18 19.03	-14 53.1	2.249	3.232	5.4	20.0	6 10	18 18.88	-22 20.8	2.662	3.652	4.2	19.3
6 20	18 11.25	-14 34.3	2.226	3.232	3.0	19.9	6 20	18 11.25	-22 49.5	2.633	3.648	1.1	19.1
6 30	18 3.22	-14 20.9	2.230	3.232	3.7	19.9	6 30	18 3.30	-23 17.5	2.634	3.644	2.1	19.2
7 10	17 55.72	-14 13.4	2.262	3.232	6.5	20.1	7 10	17 55.74	-23 43.8	2.663	3.640	5.2	19.4
7 20	17 49.43	-14 11.7	2.320	3.231	9.4	20.3	7 20	17 49.21	-24 8.0	2.719	3.635	8.0	19.5
7 30	17 44.86	-14 15.5	2.400	3.231	12.0	20.5	7 30	17 44.21	-24 30.1	2.799	3.630	10.5	19.7
186037	2001 RO ₉₉		6 23.3 305°09	1°5/23.3	17		311355	2005 RO ₃₂		6 23.3 225°89</			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
322234	2011 BU ₈₁		6 23.3	95°22	1°5/23.3	17	342528	2008 UW ₂₀₈		6 23.3	292°65	0°7/23.3	18
5 21	18 36.03	-20 7.5	1.708	2.579	14.1	21.5	5 21	18 34.42	-24 54.2	1.709	2.585	13.9	20.8
5 31	18 29.88	-19 54.8	1.651	2.593	10.4	21.3	5 31	18 29.23	-24 58.6	1.619	2.564	10.3	20.6
6 10	18 21.56	-19 44.6	1.616	2.607	6.2	21.1	6 10	18 21.52	-25 2.0	1.551	2.544	6.2	20.3
6 20	18 11.93	-19 36.5	1.607	2.621	2.1	20.9	6 20	18 12.02	-25 2.7	1.508	2.523	1.7	19.9
6 30	18 2.08	-19 30.3	1.625	2.634	3.4	21.0	6 30	18 1.84	-24 59.2	1.492	2.502	3.3	20.0
7 10	17 53.17	-19 26.3	1.669	2.648	7.5	21.3	7 10	17 52.25	-24 51.6	1.501	2.482	8.0	20.2
7 20	17 46.08	-19 24.9	1.738	2.661	11.3	21.5	7 20	17 44.41	-24 41.1	1.534	2.461	12.3	20.4
7 30	17 41.44	-19 26.7	1.828	2.674	14.6	21.8	7 30	17 39.20	-24 29.9	1.588	2.441	16.1	20.6
301025	2008 SW ₉₁		6 23.3	156°39	3°0/23.2	17	145491	2005 VX ₁₀₈		6 23.3	236°85	0°3/23.3	18
5 21	18 40.65	-29 22.8	1.432	2.307	16.1	21.1	5 21	18 32.09	-23 52.5	2.459	3.322	10.6	20.6
5 31	18 34.03	-29 47.7	1.368	2.311	12.0	20.8	5 31	18 26.70	-24 0.5	2.377	3.316	7.8	20.4
6 10	18 24.36	-30 7.6	1.325	2.314	7.5	20.6	6 10	18 19.64	-24 8.3	2.319	3.309	4.6	20.2
6 20	18 12.69	-30 18.0	1.307	2.318	3.5	20.3	6 20	18 11.49	-24 14.8	2.288	3.303	1.2	20.0
6 30	18 0.52	-30 16.3	1.314	2.321	4.7	20.4	6 30	18 3.00	-24 19.2	2.286	3.296	2.4	20.1
7 10	17 49.49	-30 3.0	1.346	2.323	9.1	20.7	7 10	17 55.01	-24 21.2	2.311	3.289	5.8	20.3
7 20	17 40.91	-29 41.4	1.401	2.325	13.5	20.9	7 20	17 48.23	-24 21.3	2.363	3.282	9.0	20.5
7 30	17 35.61	-29 15.6	1.477	2.327	17.2	21.2	7 30	17 43.25	-24 20.4	2.439	3.275	11.7	20.6
420534	2012 FO ₇₃		6 23.3	184°43	0°1/23.3	17	357116	Attivissimo		6 23.3	228°70	2°6/23.3	18
5 21	18 38.26	-23 23.8	1.936	2.799	13.1	22.3	5 21	18 31.74	-15 7.9	2.696	3.546	10.2	22.3
5 31	18 31.52	-23 21.5	1.860	2.799	9.6	22.1	5 31	18 26.26	-14 51.5	2.607	3.535	7.7	22.1
6 10	18 22.58	-23 18.7	1.809	2.799	5.7	21.9	6 10	18 19.32	-14 39.2	2.542	3.523	5.0	21.9
6 20	18 12.22	-23 14.0	1.784	2.798	1.4	21.6	6 20	18 11.40	-14 31.5	2.504	3.510	2.8	21.7
6 30	18 1.47	-23 6.9	1.787	2.797	2.9	21.7	6 30	18 3.18	-14 28.5	2.496	3.497	3.4	21.7
7 10	17 51.48	-22 57.7	1.817	2.794	7.1	22.0	7 10	17 55.34	-14 30.4	2.515	3.484	6.0	21.9
7 20	17 43.19	-22 47.6	1.873	2.791	10.9	22.2	7 20	17 48.54	-14 37.0	2.562	3.470	8.8	22.0
7 30	17 37.29	-22 38.1	1.951	2.788	14.2	22.4	7 30	17 43.29	-14 47.9	2.632	3.455	11.3	22.2
512826	2016 UN ₁₀₇		6 23.3	328°41	0°2/23.3	18 R	183241	2002 TV ₉₈		6 23.3	218°11	3°1/23.4	17
5 21	18 32.03	-23 1.6	1.870	2.745	12.9	21.0	5 21	18 34.97	-15 54.3	1.649	2.518	14.6	20.8
5 31	18 27.08	-23 2.7	1.794	2.739	9.5	20.8	5 31	18 29.37	-15 44.2	1.576	2.515	11.0	20.6
6 10	18 20.03	-23 4.4	1.740	2.732	5.6	20.5	6 10	18 21.45	-15 41.0	1.526	2.512	7.0	20.3
6 20	18 11.59	-23 5.4	1.711	2.726	1.4	20.2	6 20	18 11.97	-15 44.7	1.500	2.509	3.5	20.1
6 30	18 2.73	-23 5.0	1.709	2.720	2.9	20.3	6 30	18 2.03	-15 55.1	1.500	2.506	4.4	20.2
7 10	17 54.53	-23 3.2	1.734	2.714	7.1	20.6	7 10	17 52.83	-16 11.5	1.526	2.503	8.3	20.4
7 20	17 47.89	-23 0.7	1.783	2.709	10.9	20.8	7 20	17 45.38	-16 33.0	1.576	2.499	12.3	20.6
7 30	17 43.53	-22 58.5	1.853	2.704	14.2	21.0	7 30	17 40.45	-16 58.7	1.648	2.495	15.8	20.8
401346	2013 AL ₁₀₄		6 23.3	104°26	2°9/23.7	18	164057	2003 WR ₁₀		6 23.3	262°58	3°9/23.1	17
5 21	18 32.01	-12 41.4	2.561	3.408	10.8	21.7	5 21	18 36.11	-33 1.0	1.933	2.796	13.1	20.2
5 31	18 26.33	-12 47.8	2.502	3.427	8.2	21.5	5 31	18 30.22	-33 31.3	1.858	2.792	10.0	20.0
6 10	18 19.26	-13 1.1	2.468	3.446	5.4	21.4	6 10	18 21.96	-33 55.2	1.806	2.787	6.7	19.8
6 20	18 11.35	-13 20.8	2.461	3.464	3.2	21.3	6 20	18 12.10	-34 8.8	1.778	2.782	4.1	19.6
6 30	18 3.28	-13 46.3	2.482	3.482	3.6	21.3	6 30	18 1.77	-34 9.8	1.778	2.777	4.9	19.7
7 10	17 55.77	-14 16.4	2.532	3.500	6.0	21.5	7 10	17 52.19	-33 58.2	1.804	2.772	7.9	19.9
7 20	17 49.40	-14 50.0	2.608	3.517	8.6	21.7	7 20	17 44.42	-33 36.4	1.854	2.767	11.3	20.0
7 30	17 44.63	-15 25.8	2.708	3.534	10.9	21.9	7 30	17 39.21	-33 8.0	1.926	2.763	14.3	20.2
95172	2002 AZ ₁₉₀		6 23.3	195°08	10°3/24.1	18	212977	Birute		6 23.3	8°06	6°4/23.2	17
5 21	18 32.78	+ 6 27.8	2.189	2.966	14.6	20.4	5 21	18 35.11	-34 8.8	1.047	1.943	19.0	19.3
5 31	18 27.20	+ 7 18.3	2.120	2.964	12.9	20.2	5 31	18 30.90	-34 55.6	0.994	1.944	14.6	19.1
6 10	18 19.92	+ 7 49.5	2.071	2.962	11.3	20.1	6 10	18 22.92	-35 31.7	0.959	1.945	10.1	18.8
6 20	18 11.54	+ 7 58.1	2.046	2.959	10.4	20.1	6 20	18 12.39	-35 49.8	0.944	1.948	6.7	18.6
6 30	18 2.85	+ 7 41.9	2.044	2.956	10.5	20.1	6 30	18 1.23	-35 45.3	0.951	1.951	7.6	18.7
7 10	17 54.67	+ 7 2.0	2.065	2.952	11.6	20.1	7 10	17 51.56	-35 19.6	0.979	1.956	11.7	18.9
7 20	17 47.75	+ 6 1.4	2.110	2.947	13.3	20.2	7 20	17 44.97	-34 38.2	1.027	1.962	16.1	19.2
7 30	17 42.68	+ 4 44.8	2.174	2.942	15.1	20.4	7 30	17 42.37	-33 48.4	1.092	1.969	20.1	19.5
342622	2008 UV ₃₄₁		6 23.3	333°10	1°6/23.2	17	437070	2012 UT ₅₅		6 23.3	48°81	1°6/23.2	17
5 21	18 34.19	-26 5.6	1.686	2.563	14.0	20.7	5 21	18 33.49	-20 24.6	1.873	2.744	13.1	20.8
5 31	18 28.94	-26 31.1	1.613	2.559	10.3	20.4	5 31	18 27.99	-20 0.1	1.804	2.746	9.7	20.6
6 10	18 21.25	-26 55.7	1.564	2.556	6.2	20.2	6 10	18 20.48	-19 37.1	1.758	2.748	5.8	20.4
6 20	18 11.92	-27 16.6	1.539	2.552	2.2	19.9	6 20	18 11.70	-19 15.5	1.737	2.750	2.1	20.1
6 30	18 2.08	-27 31.4	1.540	2.549	3.5	20.0	6 30	18 2.63	-18 56.2	1.744	2.753	3.3	20.2
7 10	17 53.01	-27 39.4	1.567	2.547	7.8	20.3	7 10	17 54.31	-18 39.8	1.777	2.755	7.2	20.5
7 20	17 45.78	-27 41.5	1.618	2.544	11.8	20.5	7 20	17 47.59	-18 27.2	1.835	2.757	10.9	20.7
7 30	17 41.18	-27 39.7	1.690	2.542	15.3	20.7	7 30	17 43.10	-18 19.2	1.915	2.760	14.1	20.9
321337	2009 HF ₁₀₆		6 23.3	8°66	1°0/23.3	17	427493	2002 BN ₂₀		6 23.3	114°16	7°2/22.6	17
5 21	18 30.25	-21 23.1	0.993	1.902	18.7	19.7	5 21	18 37.24	- 3 52.7	2.301	3.115	12.9	20.6
5 31	18 26.95	-21 23.5	0.941	1.903	13.8	19.5	5 31	18 30.08	- 2 29.0	2.252	3.140	10.6	20.5
6 10	18 20.41	-21 28.1	0.908	1.905	8.2	19.2	6 10	18 21.41	- 1 16.8	2.227	3.164	8.5	20.4
6 20	18 11.74	-21 35.3	0.894	1.909	2.3	18.8	6 20	18 11.89	- 0 19.6	2.229	3.187	7.3	20.4
6 30	18 2.55	-21 43.9	0.903	1.915	4.2	19.0	6 30	18 2.32	+ 0 20.2	2.259	3.210	7.7	20.5
7 10	17 54.62	-21 53.1	0.933	1.922	10.0	19.3	7 10	17 53.48	+ 0 42.2	2.316	3.232	9.3	20.6
7 20	17 49.30	-22 2.9	0.982	1.931	15.2	19.6	7 20	17 46.03	+ 0 47.4	2.398	3.253	11.3	20.8
7 30	17 47.44	-22 13.8	1.049	1.941	19.6	19.9	7 30	17 40.43	+ 0 38.3	2.501	3.273	13.2	20.9
26794	Yukioniimi		6 23.3	70°83	3°6/23.6	18	61660	2000 QP ₁₁₄		6 23.3	164°79	4°7/23.2	18
5 21	18 34.												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
336227	2008 <i>SJ</i> ₈₁		6 23.3 149°50	4°3/23.6	18		203692	2002 <i>NK</i> ₅₉		6 23.3 292°28	3°4/23.7	18	
5 21	18 33.19	-10 21.0	2.238	3.082	12.2	21.1	5 21	18 32.33	-13 27.7	1.859	2.722	13.5	20.0
5 31	18 27.43	-10 5.8	2.170	3.090	9.4	21.0	5 31	18 27.40	-13 33.5	1.769	2.703	10.3	19.8
6 10	18 20.02	-9 59.4	2.125	3.097	6.6	20.8	6 10	18 20.33	-13 48.8	1.702	2.685	6.8	19.5
6 20	18 11.59	-10 2.5	2.107	3.103	4.5	20.7	6 20	18 11.75	-14 13.5	1.659	2.666	3.8	19.3
6 30	18 2.91	-10 15.2	2.117	3.109	4.9	20.7	6 30	18 2.56	-14 47.0	1.644	2.647	4.4	19.3
7 10	17 54.82	-10 36.8	2.154	3.115	7.3	20.9	7 10	17 53.82	-15 27.6	1.654	2.629	7.9	19.5
7 20	17 48.00	-11 5.8	2.216	3.120	10.1	21.1	7 20	17 46.51	-16 13.4	1.689	2.610	11.7	19.6
7 30	17 43.02	-11 40.6	2.301	3.125	12.7	21.2	7 30	17 41.41	-17 2.4	1.746	2.592	15.2	19.8
434601	2005 <i>UL</i> ₂₈₅		6 23.3 178°51	4°1/22.8	17		362486	2010 <i>SZ</i> ₄₁		6 23.3 273°87	1°6/23.5	18	
5 21	18 39.55	-33 53.7	2.276	3.124	11.9	23.1	5 21	18 31.14	-17 17.2	2.353	3.214	11.1	21.2
5 31	18 32.49	-34 45.5	2.202	3.126	9.1	22.9	5 31	18 26.06	-17 33.3	2.271	3.207	8.3	21.0
6 10	18 23.21	-35 31.5	2.153	3.127	6.3	22.7	6 10	18 19.32	-17 54.6	2.213	3.200	5.1	20.8
6 20	18 12.43	-36 7.3	2.130	3.128	4.3	22.6	6 20	18 11.45	-18 20.0	2.181	3.193	2.0	20.6
6 30	18 1.17	-36 29.8	2.136	3.128	4.9	22.6	6 30	18 3.22	-18 48.5	2.178	3.186	2.8	20.6
7 10	17 50.57	-36 38.4	2.170	3.128	7.5	22.8	7 10	17 55.43	-19 18.9	2.202	3.179	6.1	20.8
7 20	17 41.60	-36 34.8	2.230	3.126	10.4	23.0	7 20	17 48.82	-19 50.1	2.253	3.172	9.3	21.0
7 30	17 35.00	-36 22.2	2.312	3.124	13.0	23.2	7 30	17 43.98	-20 21.7	2.327	3.165	12.1	21.2
11529	1992 <i>BJ</i> ₁		6 23.3 198°16	0°4/23.3	18		489635	2007 <i>TO</i> ₃₉₁		6 23.3 258°22	3°7/23.2	18	
5 21	18 35.23	-24 2.4	2.482	3.339	10.7	19.3	5 21	18 32.80	-13 31.2	2.229	3.082	11.9	21.8
5 31	18 28.98	-24 16.9	2.400	3.336	7.9	19.1	5 31	18 27.37	-13 4.6	2.136	3.064	9.2	21.6
6 10	18 20.99	-24 31.1	2.342	3.331	4.7	18.9	6 10	18 20.14	-12 43.6	2.067	3.045	6.2	21.4
6 20	18 11.85	-24 43.7	2.312	3.326	1.2	18.6	6 20	18 11.67	-12 29.4	2.024	3.026	3.9	21.2
6 30	18 2.35	-24 53.3	2.311	3.321	2.4	18.7	6 30	18 2.76	-12 22.6	2.009	3.007	4.5	21.2
7 10	17 53.36	-24 59.7	2.339	3.315	5.9	18.9	7 10	17 54.27	-12 23.6	2.021	2.987	7.4	21.3
7 20	17 45.64	-25 3.3	2.393	3.308	9.0	19.1	7 20	17 47.00	-12 32.2	2.058	2.967	10.6	21.5
7 30	17 39.78	-25 5.0	2.472	3.300	11.8	19.3	7 30	17 41.61	-12 47.6	2.118	2.946	13.5	21.7
491173	2011 <i>UE</i> ₁₄		6 23.3 212°47	5°6/22.9	18		392184	2009 <i>QN</i> ₆		6 23.3 297°19	1°3/23.2	17	
5 21	18 36.98	-39 31.0	2.338	3.178	11.9	21.6	5 21	18 35.17	-25 29.6	1.473	2.355	15.3	21.7
5 31	18 30.65	-40 12.1	2.264	3.176	9.5	21.4	5 31	18 30.22	-25 46.7	1.384	2.333	11.5	21.4
6 10	18 22.13	-40 43.5	2.213	3.173	7.1	21.3	6 10	18 22.35	-26 3.5	1.317	2.310	6.9	21.1
6 20	18 12.15	-41 1.0	2.188	3.170	5.7	21.2	6 20	18 12.32	-26 17.2	1.274	2.288	2.2	20.8
6 30	18 1.75	-41 2.3	2.190	3.167	6.1	21.2	6 30	18 1.37	-26 25.1	1.255	2.265	3.9	20.8
7 10	17 52.07	-40 47.5	2.218	3.164	8.1	21.3	7 10	17 51.07	-26 26.5	1.261	2.243	9.0	21.1
7 20	17 44.05	-40 19.2	2.271	3.161	10.5	21.4	7 20	17 42.79	-26 22.6	1.290	2.221	13.8	21.3
7 30	17 38.42	-39 41.3	2.347	3.158	12.9	21.6	7 30	17 37.57	-26 15.7	1.338	2.199	18.0	21.5
512089	2015 <i>OO</i> ₇		6 23.3 189°26	3°8/23.9	18		483248	2015 <i>SK</i> ₃		6 23.3 254°07	4°6/22.9	17	
5 21	18 38.40	-38 21.4	2.769	3.602	10.4	21.6	5 21	18 29.91	-9 55.2	2.612	3.454	10.7	21.1
5 31	18 31.12	-38 9.5	2.688	3.601	8.1	21.4	5 31	18 24.89	-9 4.7	2.534	3.450	8.4	20.9
6 10	18 22.12	-37 47.2	2.633	3.600	5.8	21.2	6 10	18 18.49	-8 20.5	2.482	3.447	6.2	20.7
6 20	18 12.10	-37 12.9	2.605	3.598	4.0	21.1	6 20	18 11.23	-7 44.5	2.456	3.443	4.7	20.6
6 30	18 1.94	-36 26.2	2.606	3.597	4.3	21.1	6 30	18 3.74	-7 18.2	2.457	3.440	5.2	20.7
7 10	17 52.55	-35 28.9	2.636	3.595	6.3	21.3	7 10	17 56.70	-7 2.4	2.486	3.436	7.1	20.8
7 20	17 44.64	-34 24.4	2.693	3.592	8.7	21.4	7 20	17 50.70	-6 56.9	2.540	3.432	9.5	20.9
7 30	17 38.76	-33 16.5	2.775	3.590	11.0	21.6	7 30	17 46.22	-7 0.8	2.618	3.428	11.7	21.1
114341	2002 <i>XU</i> ₆₉		6 23.3 254°98	0°7/23.2	18		489956	2008 <i>RC</i> ₁₃₇		6 23.3 291°96	3°6/22.9	17	
5 21	18 36.82	-24 14.2	1.858	2.725	13.3	20.5	5 21	18 34.27	-17 18.1	1.697	2.568	14.2	20.7
5 31	18 30.85	-24 31.9	1.766	2.707	9.9	20.2	5 31	18 29.02	-16 28.1	1.603	2.543	10.8	20.4
6 10	18 22.44	-24 50.1	1.698	2.689	5.9	20.0	6 10	18 21.38	-15 39.7	1.531	2.518	7.0	20.1
6 20	18 12.28	-25 6.5	1.656	2.670	1.6	19.6	6 20	18 12.04	-14 54.7	1.485	2.493	3.8	19.9
6 30	18 1.43	-25 19.0	1.640	2.650	3.2	19.7	6 30	18 2.03	-14 15.4	1.464	2.468	4.9	19.9
7 10	17 51.13	-25 27.0	1.652	2.630	7.6	19.9	7 10	17 52.57	-13 44.0	1.470	2.442	8.9	20.1
7 20	17 42.47	-25 30.8	1.689	2.610	11.7	20.1	7 20	17 44.76	-13 22.1	1.498	2.417	13.1	20.3
7 30	17 36.33	-25 32.3	1.747	2.589	15.3	20.3	7 30	17 39.43	-13 10.3	1.548	2.392	16.9	20.4
439584	2014 <i>DH</i> ₁₁₃		6 23.3 6°65	0°3/23.3	17		274291	2008 <i>QF</i> ₁₄		6 23.3 65°28	2°9/23.4	17	
5 21	18 33.46	-24 9.3	1.964	2.835	12.6	21.3	5 21	18 33.96	-16 27.7	1.637	2.509	14.6	20.6
5 31	18 28.01	-24 12.7	1.892	2.835	9.2	21.1	5 31	18 28.51	-16 16.7	1.577	2.518	10.9	20.4
6 10	18 20.54	-24 15.6	1.843	2.835	5.5	20.8	6 10	18 20.88	-16 12.0	1.539	2.527	6.8	20.2
6 20	18 11.75	-24 16.6	1.820	2.835	1.4	20.6	6 20	18 11.85	-16 13.8	1.526	2.536	3.3	20.0
6 30	18 2.62	-24 15.0	1.825	2.835	2.8	20.7	6 30	18 2.54	-16 21.6	1.539	2.545	4.2	20.0
7 10	17 54.19	-24 10.8	1.856	2.836	6.8	20.9	7 10	17 54.08	-16 34.9	1.577	2.555	8.0	20.3
7 20	17 47.32	-24 4.9	1.912	2.836	10.4	21.1	7 20	17 47.39	-16 52.8	1.640	2.564	11.8	20.5
7 30	17 42.67	-23 58.6	1.991	2.836	13.6	21.3	7 30	17 43.15	-17 14.5	1.723	2.573	15.1	20.8
263239	2008 <i>AY</i> ₈₃		6 23.3 353°06	1°5/23.2	18		1717	Arlon		6 23.3 173°08	4°0/23.3	18	
5 21	18 33.29	-26 25.8	1.991	2.862	12.4	20.8	5 21	18 42.07	-32 23.4	1.606	2.471	15.2	16.0
5 31	18 27.94	-26 48.4	1.919	2.861	9.2	20.6	5 31	18 34.92	-32 48.7	1.539	2.474	11.5	15.8
6 10	18 20.53	-27 9.7	1.870	2.860	5.5	20.4	6 10	18 24.86	-33 6.3	1.493	2.476	7.5	15.6
6 20	18 11.76	-27 27.3	1.846	2.859	2.0	20.1	6 20	18 12.89	-33 11.5	1.472	2.478	4.3	15.4
6 30	18 2.60	-27 39.4	1.850	2.859	3.1	20.2	6 30	18 0.44	-33 1.9	1.477	2.479	5.2	15.4
7 10	17 54.10	-27 45.5	1.881	2.859	6.9	20.5	7 10	17 49.08	-32 38.3	1.508	2.479	8.9	15.7
7 20	17 47.17	-27 46.4	1.937	2.859	10.4	20.7	7 20	17 40.05	-32 4.6	1.563	2.479	12.8	15.9
7 30	17 42.48	-27 43.9	2.015	2.859	13.5	20.9	7 30	17 34.18	-31 25.8	1.639	2.478	16.3	16.1
505409	2013 <i>QK</i> ₉₁		6 23.3 358°71	1°9/23.3	17		68328	2001 <i>HS</i> ₄₄					

EPHEMERIDES

6 23.3

6 23.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
38232	1999 <i>NW</i> ₅₅		6 23.3 333°61	1°3/23.1	18		40670	1999 <i>RW</i> ₂₀₁		6 23.3 331°83	5°9/22.3	18	
5 21	18 34.19	-23 45.6	1.464	2.348	15.3	18.1	5 21	18 31.33	-15 3.3	1.365	2.249	16.2	17.4
5 31	18 29.11	-22 51.5	1.388	2.338	11.3	17.9	5 31	18 27.14	-13 35.7	1.288	2.232	12.5	17.1
6 10	18 21.43	-21 53.2	1.335	2.328	6.8	17.6	6 10	18 20.37	-12 10.6	1.232	2.215	8.7	16.9
6 20	18 12.03	-20 51.9	1.305	2.320	2.1	17.2	6 20	18 11.81	-10 52.8	1.199	2.200	6.0	16.7
6 30	18 2.19	-19 50.0	1.302	2.312	3.8	17.3	6 30	18 2.69	-9 47.6	1.190	2.186	7.2	16.7
7 10	17 53.27	-18 51.4	1.323	2.304	8.7	17.6	7 10	17 54.34	-8 59.0	1.204	2.173	11.0	16.9
7 20	17 46.39	-17 59.5	1.367	2.298	13.2	17.9	7 20	17 47.93	-8 28.7	1.240	2.160	15.1	17.1
7 30	17 42.32	-17 16.9	1.431	2.292	17.1	18.1	7 30	17 44.29	-8 16.2	1.294	2.149	18.9	17.3
154625	2003 <i>SP</i> ₂₉₇		6 23.3 263°86	9°7/22.5	18		398628	2012 <i>BH</i> ₅₇		6 23.3 281°68	1°7/23.5	18	
5 21	18 28.97	+ 7 49.7	2.631	3.396	12.7	19.6	5 21	18 31.27	-17 37.9	2.279	3.141	11.4	21.3
5 31	18 24.26	+ 8 59.3	2.559	3.388	11.4	19.5	5 31	18 26.27	-17 42.6	2.190	3.127	8.5	21.1
6 10	18 18.16	+ 9 53.0	2.509	3.379	10.3	19.4	6 10	18 19.52	-17 51.7	2.124	3.112	5.3	20.8
6 20	18 11.17	+10 27.3	2.481	3.371	9.7	19.3	6 20	18 11.57	-18 4.9	2.085	3.097	2.2	20.6
6 30	18 3.90	+10 39.8	2.477	3.362	9.9	19.3	6 30	18 3.19	-18 21.4	2.074	3.082	3.0	20.6
7 10	17 57.02	+10 30.5	2.496	3.354	10.8	19.4	7 10	17 55.24	-18 40.5	2.090	3.067	6.4	20.8
7 20	17 51.12	+10 0.9	2.537	3.345	12.1	19.5	7 20	17 48.49	-19 1.6	2.132	3.052	9.7	21.0
7 30	17 46.70	+ 9 14.3	2.598	3.337	13.6	19.6	7 30	17 43.57	-19 24.2	2.197	3.037	12.7	21.2
159645	2002 <i>CT</i> ₁₆₇		6 23.3 17°11	1°2/23.4	18		309233	2007 <i>QE</i> ₁₁		6 23.3 52°79	5°1/23.3	17	
5 21	18 33.54	-19 10.5	1.580	2.458	14.7	19.3	5 21	18 39.37	-33 0.5	1.262	2.143	17.4	20.8
5 31	18 28.45	-19 27.6	1.514	2.460	10.9	19.0	5 31	18 33.48	-33 36.4	1.207	2.150	13.3	20.5
6 10	18 20.97	-19 50.3	1.470	2.462	6.5	18.8	6 10	18 24.23	-34 3.1	1.171	2.157	8.8	20.3
6 20	18 11.92	-20 16.8	1.450	2.464	2.1	18.5	6 20	18 12.78	-34 15.0	1.158	2.164	5.4	20.1
6 30	18 2.41	-20 45.2	1.456	2.467	3.4	18.6	6 30	18 0.87	-34 8.6	1.169	2.171	6.3	20.2
7 10	17 53.71	-21 13.9	1.488	2.469	7.9	18.9	7 10	17 50.33	-33 45.2	1.203	2.178	10.2	20.4
7 20	17 46.83	-21 42.1	1.543	2.472	12.1	19.1	7 20	17 42.56	-33 9.7	1.260	2.186	14.5	20.7
7 30	17 42.55	-22 9.3	1.619	2.476	15.6	19.4	7 30	17 38.39	-32 28.0	1.335	2.194	18.2	21.0
279643	2011 <i>EH</i> ₇₄		6 23.3 123°76	1°3/23.3	17		474557	2003 <i>YF</i> ₁₆₀		6 23.3 194°44	1°9/23.1	18	
5 21	18 36.99	-26 49.7	1.882	2.749	13.2	21.0	5 21	18 35.58	-28 1.0	2.486	3.342	10.7	21.9
5 31	18 30.62	-26 56.3	1.818	2.758	9.7	20.8	5 31	18 29.35	-28 36.0	2.406	3.340	8.0	21.7
6 10	18 22.07	-27 0.1	1.778	2.768	5.8	20.6	6 10	18 21.30	-29 9.2	2.351	3.337	4.9	21.5
6 20	18 12.16	-26 58.9	1.763	2.777	1.9	20.4	6 20	18 12.01	-29 37.8	2.324	3.334	2.2	21.3
6 30	18 1.99	-26 51.9	1.776	2.785	3.1	20.5	6 30	18 2.33	-29 59.7	2.325	3.330	3.1	21.4
7 10	17 52.68	-26 39.5	1.816	2.794	7.1	20.7	7 10	17 53.15	-30 14.3	2.355	3.326	6.2	21.5
7 20	17 45.15	-26 23.6	1.881	2.802	10.7	21.0	7 20	17 45.28	-30 22.0	2.411	3.321	9.2	21.7
7 30	17 40.06	-26 6.3	1.968	2.810	13.9	21.2	7 30	17 39.35	-30 24.5	2.491	3.316	11.8	21.9
266523	2008 <i>ER</i> ₁₆₇		6 23.3 70°88	1°2/23.4	17		396999	2005 <i>SK</i> ₂₈₀		6 23.3 172°11	6°4/23.4	18	
5 21	18 38.22	-27 16.2	1.457	2.335	15.7	20.8	5 21	18 29.90	-1 55.2	2.755	3.565	11.1	21.6
5 31	18 31.89	-27 4.8	1.404	2.349	11.5	20.6	5 31	18 24.81	-1 12.3	2.684	3.568	9.2	21.4
6 10	18 22.92	-26 48.8	1.371	2.364	6.9	20.4	6 10	18 18.44	-0 40.5	2.637	3.569	7.5	21.3
6 20	18 12.37	-26 26.7	1.364	2.378	2.1	20.1	6 20	18 11.26	-0 21.8	2.615	3.571	6.5	21.2
6 30	18 1.63	-25 58.4	1.382	2.392	3.6	20.2	6 30	18 3.88	-0 17.4	2.620	3.572	6.7	21.3
7 10	17 52.12	-25 26.0	1.425	2.406	8.2	20.5	7 10	17 56.93	-0 27.0	2.652	3.573	8.0	21.3
7 20	17 44.88	-24 52.4	1.492	2.421	12.5	20.8	7 20	17 50.95	-0 49.4	2.708	3.574	9.8	21.5
7 30	17 40.58	-24 20.9	1.579	2.435	16.0	21.1	7 30	17 46.39	-1 22.6	2.786	3.574	11.7	21.6
393985	2005 <i>UY</i> ₃₈₆		6 23.3 315°57	0°1/23.3	18		76825	2000 <i>SR</i> ₁₂₅		6 23.3 314°06	3°4/22.8	18	
5 21	18 31.81	-23 50.4	2.051	2.922	12.1	21.0	5 21	18 35.09	-27 8.0	1.222	2.114	17.1	18.2
5 31	18 26.81	-23 46.9	1.970	2.913	8.9	20.8	5 31	18 30.72	-28 6.7	1.146	2.098	12.9	17.9
6 10	18 19.86	-23 43.0	1.912	2.904	5.3	20.6	6 10	18 22.94	-29 7.2	1.090	2.082	8.1	17.5
6 20	18 11.63	-23 37.5	1.880	2.895	1.3	20.3	6 20	18 12.56	-30 3.4	1.056	2.067	3.8	17.2
6 30	18 3.00	-23 30.1	1.876	2.887	2.7	20.4	6 30	18 1.11	-30 49.1	1.045	2.052	5.4	17.3
7 10	17 54.97	-23 21.1	1.898	2.878	6.6	20.6	7 10	17 50.44	-31 20.8	1.058	2.038	10.5	17.5
7 20	17 48.38	-23 11.3	1.946	2.870	10.2	20.8	7 20	17 42.24	-31 38.8	1.091	2.024	15.5	17.8
7 30	17 43.88	-23 2.0	2.015	2.862	13.4	21.0	7 30	17 37.70	-31 46.2	1.143	2.012	19.9	18.0
418191	2008 <i>CF</i> ₂₅		6 23.3 206°53	0°2/23.3	17		14994	Uppenkamp		6 23.3 94°60	1°9/23.1	18	
5 21	18 37.81	-23 1.6	1.964	2.826	12.9	22.3	5 21	18 32.17	-28 22.0	2.545	3.406	10.4	17.9
5 31	18 31.32	-23 15.5	1.882	2.821	9.5	22.1	5 31	18 26.79	-28 53.8	2.472	3.409	7.7	17.7
6 10	18 22.59	-23 30.4	1.825	2.815	5.7	21.8	6 10	18 19.74	-29 23.4	2.424	3.411	4.8	17.5
6 20	18 12.35	-23 44.2	1.793	2.808	1.4	21.5	6 20	18 11.62	-29 48.6	2.403	3.413	2.2	17.3
6 30	18 1.60	-23 55.3	1.790	2.800	2.9	21.6	6 30	18 3.18	-30 7.6	2.410	3.415	3.0	17.4
7 10	17 51.50	-24 3.3	1.815	2.792	7.1	21.8	7 10	17 55.26	-30 19.8	2.445	3.418	5.9	17.6
7 20	17 43.01	-24 8.6	1.865	2.783	11.0	22.1	7 20	17 48.57	-30 25.8	2.506	3.420	8.7	17.8
7 30	17 36.90	-24 12.4	1.937	2.773	14.3	22.3	7 30	17 43.69	-30 27.0	2.591	3.422	11.2	17.9
151462	2002 <i>GJ</i> ₁₁₉		6 23.3 242°51	1°7/23.1	18		442793	2012 <i>XJ</i> ₁₅₄		6 23.3 2°52	2°2/23.5	18	
5 21	18 32.94	-27 8.8	2.394	3.257	10.9	19.8	5 21	18 34.01	-30 35.3	1.976	2.844	12.6	20.3
5 31	18 27.47	-27 42.7	2.316	3.253	8.0	19.7	5 31	18 28.47	-30 27.1	1.905	2.844	9.4	20.1
6 10	18 20.20	-28 15.5	2.261	3.250	4.9	19.4	6 10	18 20.84	-30 12.5	1.856	2.844	5.9	19.9
6 20	18 11.73	-28 44.6	2.234	3.246	2.0	19.2	6 20	18 11.90	-29 49.9	1.833	2.844	2.6	19.7
6 30	18 2.86	-29 8.1	2.235	3.242	3.0	19.3	6 30	18 2.69	-29 19.1	1.837	2.845	3.5	19.7
7 10	17 54.49	-29 25.0	2.264	3.238	6.2	19.5	7 10	17 54.28	-28 41.7	1.868	2.846	7.0	19.9
7 20	17 47.42	-29 35.8	2.319	3.234	9.3	19.7	7 20	17 47.55	-28 0.3	1.924	2.847	10.5	20.2
7 30	17 42.26	-29 41.6	2.396	3.229	12.0	19.9	7 30	17 43.13	-27 18.1	2.003	2.848	13.5	20.4
259673	2003 <i>WR</i> ₁₇₀		6 23.3 257°53	1°8/23.6	17		136271	2003 <i>YT</i>					

EPHEMERIDES

6 23.3

6 23.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
248080	2004 <i>PL</i> ₁₁₀		6 23.3 263°25	2°7/23.2	18		123333	2000 <i>VF</i> ₄₂		6 23.3 234°82	1°2/23.3	18	
5 21	18 33.81	-31 36.0	2.483	3.340	10.7	20.9	5 21	18 35.86	-26 13.2	1.925	2.793	12.9	20.5
5 31	18 28.15	-31 54.8	2.394	3.326	8.1	20.7	5 31	18 29.98	-26 23.0	1.845	2.786	9.6	20.3
6 10	18 20.64	-32 8.8	2.329	3.312	5.3	20.5	6 10	18 21.85	-26 30.9	1.788	2.779	5.7	20.0
6 20	18 11.87	-32 15.8	2.291	3.298	2.9	20.3	6 20	18 12.23	-26 34.8	1.758	2.771	1.8	19.8
6 30	18 2.69	-32 14.1	2.281	3.283	3.6	20.3	6 30	18 2.13	-26 33.4	1.754	2.764	3.1	19.8
7 10	17 54.01	-32 3.8	2.299	3.268	6.4	20.5	7 10	17 52.72	-26 26.6	1.777	2.756	7.2	20.1
7 20	17 46.65	-31 46.3	2.342	3.253	9.4	20.6	7 20	17 44.95	-26 15.9	1.826	2.748	11.0	20.3
7 30	17 41.24	-31 23.8	2.409	3.238	12.0	20.8	7 30	17 39.58	-26 3.2	1.896	2.739	14.3	20.5
217534	2006 <i>YW</i> ₃₃		6 23.3 296°89	1°0/23.2	18		370421	2002 <i>UA</i> ₂₅		6 23.3 343°38	2°2/23.2	18	
5 21	18 35.71	-22 40.3	1.480	2.361	15.3	20.0	5 21	18 31.21	-26 9.9	1.115	2.017	17.6	19.7
5 31	18 30.78	-23 27.6	1.386	2.333	11.5	19.7	5 31	18 27.83	-26 39.0	1.047	2.006	13.1	19.4
6 10	18 22.84	-24 21.3	1.313	2.306	6.9	19.3	6 10	18 21.16	-27 8.1	0.999	1.995	8.0	19.1
6 20	18 12.56	-25 17.5	1.264	2.278	2.0	18.9	6 20	18 12.14	-27 33.1	0.972	1.986	2.9	18.7
6 30	18 1.13	-26 11.7	1.240	2.251	3.9	19.0	6 30	18 2.29	-27 50.1	0.967	1.978	4.6	18.8
7 10	17 50.11	-27 0.2	1.242	2.223	9.2	19.2	7 10	17 53.44	-27 58.1	0.985	1.971	10.1	19.1
7 20	17 40.97	-27 41.2	1.266	2.196	14.2	19.4	7 20	17 47.12	-27 58.2	1.022	1.966	15.3	19.4
7 30	17 34.92	-28 15.4	1.311	2.168	18.5	19.6	7 30	17 44.35	-27 53.1	1.077	1.962	19.7	19.6
478088	2011 <i>UJ</i> ₄₁		6 23.3 252°83	0°8/23.3	18		395230	2010 <i>MD</i> ₂₇		6 23.3 329°31	0°1/23.3	17	
5 21	18 33.47	-25 32.1	2.258	3.122	11.4	22.1	5 21	18 31.99	-24 2.7	1.947	2.821	12.5	21.0
5 31	18 27.94	-25 41.5	2.173	3.112	8.4	21.9	5 31	18 27.05	-23 57.8	1.869	2.813	9.2	20.8
6 10	18 20.53	-25 49.6	2.112	3.102	5.0	21.7	6 10	18 20.08	-23 52.1	1.814	2.806	5.5	20.6
6 20	18 11.86	-25 55.0	2.078	3.092	1.5	21.4	6 20	18 11.78	-23 44.7	1.785	2.799	1.4	20.3
6 30	18 2.78	-25 56.4	2.072	3.082	2.7	21.5	6 30	18 3.09	-23 35.2	1.782	2.793	2.8	20.4
7 10	17 54.23	-25 53.9	2.094	3.072	6.3	21.7	7 10	17 55.03	-23 24.0	1.806	2.787	6.8	20.6
7 20	17 47.04	-25 48.2	2.141	3.061	9.7	21.9	7 20	17 48.50	-23 12.1	1.855	2.781	10.6	20.8
7 30	17 41.86	-25 40.8	2.212	3.050	12.7	22.1	7 30	17 44.16	-23 0.9	1.925	2.775	13.8	21.0
437758	2014 <i>GK</i> ₃₉		6 23.3 335°82	0°6/23.4	18		480413	2015 <i>KS</i> ₉₄		6 23.3 65°66	2°5/23.7	17	
5 21	18 31.56	-20 20.0	1.803	2.679	13.3	20.6	5 21	18 33.09	-15 26.5	1.872	2.737	13.3	21.0
5 31	18 26.88	-20 41.4	1.726	2.671	9.8	20.4	5 31	18 27.77	-15 39.0	1.805	2.742	10.0	20.8
6 10	18 20.06	-21 7.3	1.672	2.664	5.9	20.1	6 10	18 20.46	-15 59.1	1.761	2.747	6.3	20.6
6 20	18 11.76	-21 35.8	1.643	2.657	1.6	19.8	6 20	18 11.87	-16 25.8	1.743	2.753	3.0	20.4
6 30	18 2.97	-22 5.0	1.640	2.651	3.0	19.9	6 30	18 2.93	-16 57.9	1.751	2.758	3.7	20.5
7 10	17 54.79	-22 33.6	1.664	2.645	7.2	20.1	7 10	17 54.66	-17 33.7	1.786	2.763	7.2	20.7
7 20	17 48.16	-23 0.6	1.712	2.640	11.2	20.4	7 20	17 47.91	-18 11.5	1.846	2.769	10.8	20.9
7 30	17 43.84	-23 26.0	1.781	2.635	14.6	20.6	7 30	17 43.34	-18 50.4	1.929	2.775	13.9	21.1
54539	2000 <i>QR</i> ₅₆		6 23.3 32°19	5°7/23.8	18		475911	2007 <i>DZ</i> ₉₄		6 23.3 149°67	4°7/23.0	18	
5 21	18 30.81	-6 54.6	2.112	2.954	12.9	19.5	5 21	18 35.87	-38 39.0	2.718	3.556	10.5	21.4
5 31	18 25.86	-6 33.3	2.042	2.955	10.3	19.4	5 31	18 29.54	-39 15.3	2.649	3.561	8.3	21.2
6 10	18 19.23	-6 23.8	1.994	2.956	7.7	19.2	6 10	18 21.40	-39 43.3	2.605	3.566	6.1	21.1
6 20	18 11.52	-6 27.3	1.971	2.957	5.9	19.1	6 20	18 12.09	-39 59.7	2.587	3.571	4.8	21.0
6 30	18 3.51	-6 44.5	1.975	2.957	6.2	19.1	6 30	18 2.49	-40 2.7	2.597	3.576	5.1	21.1
7 10	17 56.05	-7 14.2	2.004	2.958	8.3	19.2	7 10	17 53.51	-39 52.7	2.634	3.580	6.9	21.2
7 20	17 49.85	-7 54.6	2.058	2.959	10.9	19.4	7 20	17 45.94	-39 31.4	2.696	3.585	9.1	21.3
7 30	17 45.50	-8 42.9	2.134	2.960	13.5	19.6	7 30	17 40.38	-39 2.1	2.782	3.588	11.2	21.5
269043	2007 <i>FG</i> ₃₃		6 23.3 5°93	10°2/26.2	17		445399	2010 <i>TE</i> ₁₃		6 23.3 291°63	5°6/23.1	18	
5 21	18 28.69	-0 24.7	1.162	2.022	20.0	19.2	5 21	18 35.96	-39 18.0	2.274	3.118	12.0	21.3
5 31	18 25.35	-0 27.2	1.106	2.022	16.7	18.9	5 31	18 30.02	-39 55.5	2.198	3.113	9.6	21.1
6 10	18 19.37	-0 59.5	1.067	2.024	13.3	18.7	6 10	18 21.86	-40 23.2	2.145	3.107	7.2	20.9
6 20	18 11.61	-2 4.3	1.048	2.027	10.7	18.6	6 20	18 12.24	-40 37.2	2.118	3.102	5.7	20.8
6 30	18 3.35	-3 39.9	1.051	2.032	10.4	18.6	6 30	18 2.18	-40 35.0	2.117	3.097	6.1	20.9
7 10	17 55.99	-5 39.5	1.075	2.039	12.5	18.7	7 10	17 52.83	-40 16.9	2.143	3.092	8.1	21.0
7 20	17 50.69	-7 53.8	1.120	2.047	15.8	19.0	7 20	17 45.15	-39 45.4	2.193	3.087	10.7	21.1
7 30	17 48.27	-10 13.0	1.185	2.057	19.2	19.2	7 30	17 39.87	-39 4.7	2.265	3.082	13.1	21.3
103785	2000 <i>DQ</i> ₈		6 23.3 109°82	0°8/23.4	18		396808	2004 <i>PW</i> ₈₇		6 23.3 303°28	0°4/23.3	18	
5 21	18 36.99	-20 56.4	1.676	2.547	14.3	20.4	5 21	18 32.01	-23 23.1	2.073	2.944	12.0	21.1
5 31	18 30.77	-21 2.5	1.617	2.559	10.6	20.2	5 31	18 27.10	-23 44.6	1.983	2.926	8.9	20.8
6 10	18 22.25	-21 11.2	1.580	2.571	6.3	19.9	6 10	18 20.17	-24 7.8	1.917	2.909	5.3	20.6
6 20	18 12.30	-21 21.0	1.568	2.583	1.8	19.7	6 20	18 11.83	-24 30.6	1.877	2.891	1.4	20.3
6 30	18 2.05	-21 30.6	1.584	2.594	3.2	19.8	6 30	18 2.94	-24 51.3	1.864	2.874	2.8	20.3
7 10	17 52.71	-21 39.7	1.625	2.605	7.6	20.1	7 10	17 54.52	-25 8.8	1.878	2.857	6.7	20.6
7 20	17 45.26	-21 48.5	1.692	2.616	11.5	20.3	7 20	17 47.47	-25 23.1	1.917	2.841	10.4	20.7
7 30	17 40.36	-21 57.6	1.779	2.626	14.9	20.6	7 30	17 42.53	-25 34.9	1.979	2.824	13.6	20.9
53889	2000 <i>FB</i> ₄₁		6 23.3 106°75	0°9/23.2	17		363639	2004 <i>RG</i> ₁₉₂		6 23.3 278°05	4°1/23.1	18	
5 21	18 37.38	-24 19.9	1.671	2.543	14.3	19.7	5 21	18 35.34	-35 39.2	2.497	3.345	11.0	21.0
5 31	18 31.17	-24 46.2	1.610	2.554	10.5	19.4	5 31	18 29.45	-36 6.0	2.399	3.322	8.5	20.8
6 10	18 22.55	-25 12.9	1.573	2.564	6.2	19.2	6 10	18 21.52	-36 26.0	2.325	3.298	6.0	20.6
6 20	18 12.38	-25 36.8	1.560	2.575	1.8	18.9	6 20	18 12.17	-36 36.0	2.277	3.273	4.2	20.4
6 30	18 1.86	-25 55.9	1.575	2.585	3.3	19.1	6 30	18 2.27	-36 33.6	2.257	3.249	4.7	20.4
7 10	17 52.26	-26 9.2	1.616	2.595	7.6	19.4	7 10	17 52.85	-36 18.9	2.265	3.224	7.1	20.5
7 20	17 44.60	-26 17.6	1.681	2.605	11.6	19.6	7 20	17 44.80	-35 53.5	2.298	3.199	9.9	20.7
7 30	17 39.60	-26 22.8	1.768	2.614	15.0	19.9	7 30	17 38.85	-35 20.6	2.354	3.174	12.6	20.8
117079	2004 <i>LO</i> ₃		6 23.3 328°60	5°6/24.7	18		275529						

EPHEMERIDES

6 23.3

6 23.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
106749	2000 XS ₂		6 23.3 225°33	2.4/23.5	18		67900	2000 WG ₉₀		6 23.3 314°88	1.5/23.2	18	
5 21	18 35.49	-32 1.2	2.432	3.287	11.0	19.2	5 21	18 33.90	-22 53.7	1.187	2.082	17.3	18.9
5 31	18 29.27	-31 51.9	2.351	3.282	8.3	19.0	5 31	18 29.70	-22 11.9	1.105	2.060	13.0	18.5
6 10	18 21.23	-31 35.9	2.294	3.277	5.3	18.8	6 10	18 22.28	-21 26.7	1.043	2.039	7.9	18.2
6 20	18 12.05	-31 11.6	2.264	3.272	2.7	18.6	6 20	18 12.50	-20 38.9	1.003	2.017	2.5	17.8
6 30	18 2.61	-30 38.8	2.262	3.267	3.3	18.7	6 30	18 1.82	-19 50.2	0.986	1.997	4.4	17.9
7 10	17 53.84	-29 58.8	2.289	3.262	6.2	18.8	7 10	17 52.00	-19 4.1	0.992	1.977	10.3	18.1
7 20	17 46.51	-29 14.1	2.342	3.256	9.2	19.0	7 20	17 44.52	-18 24.3	1.019	1.958	15.7	18.4
7 30	17 41.19	-28 27.8	2.419	3.250	11.9	19.2	7 30	17 40.48	-17 53.6	1.063	1.940	20.5	18.6
6514	Torahiko		6 23.3 286°18	5.2/22.7	18		434715	2006 DE ₃₆		6 23.3 14°80	12.3/24.2	16	
5 21	18 34.07	-13 3.7	1.806	2.667	13.9	17.0	5 21	18 37.07	-47 29.1	1.200	2.059	19.6	20.0
5 31	18 28.77	-12 3.6	1.712	2.642	10.9	16.8	5 31	18 32.60	-48 37.1	1.158	2.067	16.7	19.8
6 10	18 21.25	-11 7.9	1.639	2.616	7.6	16.5	6 10	18 24.06	-49 20.4	1.133	2.076	14.1	19.7
6 20	18 12.14	-10 19.6	1.592	2.591	5.3	16.3	6 20	18 12.89	-49 30.0	1.127	2.087	12.5	19.6
6 30	18 2.40	-9 41.5	1.572	2.565	6.2	16.3	6 30	18 1.31	-49 1.9	1.141	2.099	12.6	19.6
7 10	17 53.16	-9 15.7	1.576	2.539	9.4	16.4	7 10	17 51.61	-47 59.7	1.175	2.113	14.3	19.8
7 20	17 45.40	-9 3.2	1.605	2.513	13.1	16.6	7 20	17 45.33	-46 32.5	1.229	2.128	16.9	20.0
7 30	17 39.93	-9 3.3	1.654	2.486	16.5	16.8	7 30	17 43.24	-44 51.1	1.301	2.145	19.5	20.2
477976	2011 SJ ₇₈		6 23.3 238°68	4.2/23.4	16		150985	2001 TB ₂₃₅		6 23.3 135°83	0.4/23.3	18	
5 21	18 31.72	-11 12.7	2.354	3.201	11.6	22.3	5 21	18 37.37	-22 52.2	2.030	2.892	12.6	20.1
5 31	18 26.48	-10 48.8	2.269	3.191	9.0	22.1	5 31	18 30.72	-22 41.5	1.966	2.904	9.2	19.9
6 10	18 19.61	-10 32.1	2.209	3.181	6.3	21.9	6 10	18 22.12	-22 30.5	1.926	2.916	5.4	19.7
6 20	18 11.68	-10 23.7	2.174	3.171	4.3	21.8	6 20	18 12.33	-22 18.4	1.912	2.927	1.4	19.4
6 30	18 3.39	-10 24.4	2.168	3.161	4.8	21.8	6 30	18 2.34	-22 5.1	1.927	2.937	2.8	19.6
7 10	17 55.55	-10 33.9	2.188	3.150	7.2	21.9	7 10	17 53.14	-21 51.2	1.970	2.947	6.6	19.8
7 20	17 48.86	-10 51.6	2.234	3.139	10.0	22.1	7 20	17 45.57	-21 37.8	2.038	2.957	10.2	20.1
7 30	17 43.90	-11 16.2	2.303	3.127	12.7	22.2	7 30	17 40.22	-21 26.3	2.129	2.966	13.2	20.3
77360	2001 FX ₁₂₈		6 23.3 31°45	3.5/23.8	18		119248	2001 RS ₁₀		6 23.4 299°27	3.8/22.9	17	
5 21	18 32.80	-13 33.8	1.746	2.612	14.1	19.1	5 21	18 34.59	-17 15.8	1.513	2.389	15.3	20.1
5 31	18 27.69	-13 38.9	1.679	2.615	10.7	18.9	5 31	18 29.69	-16 28.0	1.415	2.358	11.7	19.8
6 10	18 20.48	-13 53.5	1.634	2.617	7.0	18.7	6 10	18 22.08	-15 42.1	1.339	2.327	7.6	19.5
6 20	18 11.91	-14 17.4	1.614	2.620	3.9	18.5	6 20	18 12.45	-14 59.9	1.287	2.296	4.1	19.2
6 30	18 2.95	-14 49.3	1.619	2.623	4.4	18.5	6 30	18 1.92	-14 23.9	1.260	2.264	5.4	19.2
7 10	17 54.68	-15 27.7	1.651	2.627	7.9	18.7	7 10	17 51.90	-13 56.4	1.258	2.233	9.8	19.4
7 20	17 48.01	-16 10.4	1.708	2.630	11.5	19.0	7 20	17 43.64	-13 39.0	1.278	2.202	14.5	19.6
7 30	17 43.62	-16 55.5	1.785	2.634	14.8	19.2	7 30	17 38.18	-13 32.5	1.318	2.171	18.7	19.7
42745	1998 RK ₇₇		6 23.3 160°85	3.3/23.1	18		275686	2000 SE ₁₀₆		6 23.4 281°78	6.7/23.5	18	
5 21	18 36.52	-31 30.5	2.114	2.973	12.2	19.2	5 21	18 32.61	-7 33.6	1.750	2.601	14.8	20.8
5 31	18 30.34	-32 5.0	2.043	2.976	9.2	19.0	5 31	18 27.68	-6 56.9	1.667	2.586	11.8	20.6
6 10	18 22.02	-32 34.5	1.996	2.979	6.0	18.8	6 10	18 20.59	-6 32.4	1.606	2.571	8.9	20.4
6 20	18 12.30	-32 55.7	1.976	2.981	3.5	18.7	6 20	18 12.01	-6 22.8	1.568	2.556	6.9	20.2
6 30	18 2.18	-33 6.3	1.983	2.984	4.2	18.7	6 30	18 2.87	-6 29.8	1.556	2.540	7.3	20.2
7 10	17 52.78	-33 6.1	2.017	2.985	7.2	18.9	7 10	17 54.27	-6 53.0	1.568	2.525	9.9	20.3
7 20	17 45.01	-32 56.6	2.076	2.987	10.4	19.1	7 20	17 47.16	-7 30.6	1.604	2.509	13.2	20.5
7 30	17 39.57	-32 40.9	2.158	2.989	13.2	19.3	7 30	17 42.32	-8 19.5	1.660	2.494	16.3	20.7
213758	2003 AB ₅₁		6 23.3 91°07	1.4/23.3	18		397778	2008 HM ₂₂		6 23.4 76°83	0.8/23.5	18	
5 21	18 34.66	-27 12.1	2.164	3.028	11.8	20.5	5 21	18 33.33	-18 10.9	2.293	3.153	11.4	20.9
5 31	18 28.71	-27 22.2	2.104	3.042	8.7	20.3	5 31	18 27.70	-18 55.4	2.226	3.162	8.4	20.7
6 10	18 20.91	-27 29.6	2.067	3.056	5.2	20.1	6 10	18 20.36	-19 45.2	2.184	3.172	5.0	20.5
6 20	18 11.99	-27 32.4	2.057	3.070	1.9	19.9	6 20	18 11.91	-20 38.1	2.168	3.182	1.5	20.3
6 30	18 2.86	-27 29.8	2.074	3.083	2.9	20.0	6 30	18 3.13	-21 31.6	2.182	3.192	2.5	20.4
7 10	17 54.48	-27 22.2	2.120	3.096	6.3	20.3	7 10	17 54.90	-22 23.6	2.224	3.202	6.0	20.6
7 20	17 47.63	-27 10.7	2.191	3.110	9.5	20.5	7 20	17 47.94	-23 12.5	2.293	3.212	9.2	20.8
7 30	17 42.87	-26 57.3	2.284	3.123	12.3	20.7	7 30	17 42.85	-23 57.8	2.386	3.222	11.9	21.1
283044	2008 DH ₆₇		6 23.3 295°74	5.6/23.3	18		236289	2006 AW ₅₂		6 23.4 359°69	4.3/23.7	17	
5 21	18 38.90	-35 42.6	1.522	2.390	15.7	20.0	5 21	18 30.18	-15 21.0	0.954	1.860	19.5	19.3
5 31	18 32.98	-36 15.0	1.451	2.384	12.2	19.7	5 31	18 27.07	-15 9.6	0.899	1.856	14.8	19.0
6 10	18 23.97	-36 37.1	1.401	2.379	8.6	19.5	6 10	18 20.70	-15 10.6	0.861	1.854	9.6	18.7
6 20	18 12.86	-36 43.3	1.374	2.373	5.9	19.3	6 20	18 12.08	-15 25.0	0.842	1.853	4.9	18.5
6 30	18 1.12	-36 30.4	1.371	2.367	6.5	19.4	6 30	18 2.80	-15 52.0	0.845	1.854	5.9	18.5
7 10	17 50.44	-35 59.3	1.394	2.362	9.8	19.5	7 10	17 54.66	-16 29.1	0.868	1.855	11.0	18.8
7 20	17 42.17	-35 14.4	1.439	2.356	13.6	19.7	7 20	17 49.10	-17 13.2	0.911	1.859	16.2	19.1
7 30	17 37.21	-34 21.8	1.504	2.351	17.1	19.9	7 30	17 47.06	-18 1.2	0.970	1.863	20.7	19.4
490202	2008 UC ₃₅₃		6 23.3 145°17	4.0/23.1	17		319096	2005 WD ₁₅₇		6 23.4 245°45	1.7/23.3	18	
5 21	18 34.22	-13 37.4	2.166	3.018	12.3	22.2	5 21	18 31.86	-18 31.4	2.718	3.573	10.0	21.2
5 31	18 28.26	-12 51.9	2.098	3.025	9.4	22.0	5 31	18 26.45	-18 9.5	2.626	3.559	7.4	21.0
6 10	18 20.62	-12 11.8	2.055	3.031	6.3	21.9	6 10	18 19.56	-17 49.3	2.559	3.545	4.6	20.8
6 20	18 11.93	-11 38.7	2.037	3.038	4.1	21.7	6 20	18 11.71	-17 31.0	2.519	3.530	2.0	20.6
6 30	18 3.03	-11 13.9	2.048	3.044	4.8	21.8	6 30	18 3.54	-17 15.1	2.508	3.514	2.8	20.6
7 10	17 54.78	-10 58.2	2.086	3.049	7.4	22.0	7 10	17 55.77	-17 2.1	2.526	3.499	5.7	20.8
7 20	17 47.90	-10 51.7	2.150	3.054	10.4	22.1	7 20	17 49.04	-16 52.5	2.571	3.483	8.6	20.9
7 30	17 42.93	-10 53.6	2.236	3.059	13.0	22.3	7 30	17 43.87	-16 46.6	2.639	3.467	11.2	21.1
440949	2007 AP ₂₈		6 23.3 233°48	2.1/23.6	18		205719	2002 AY ₈₇		6 23.4 141°62	3.8/23.7	17	
5 21													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
192923	1999 Y _Y ₁₄		6 23.4 166°40		6°0/22.1 18		482095	2010 LM ₁₀₁		6 23.4 280°13		4°9/23.9 18	
5 21	18 42.08	-40 55.5	2.650	3.473	11.1	21.0	5 21	18 38.90	-39 29.1	2.289	3.128	12.1	20.9
5 31	18 34.43	-42 11.0	2.582	3.479	9.0	20.9	5 31	18 32.12	-39 25.5	2.198	3.112	9.6	20.7
6 10	18 24.50	-43 17.3	2.538	3.484	7.1	20.8	6 10	18 23.10	-39 9.6	2.131	3.096	7.0	20.5
6 20	18 13.01	-44 9.3	2.521	3.489	6.0	20.7	6 20	18 12.64	-38 38.3	2.089	3.080	5.1	20.4
6 30	18 0.95	-44 43.6	2.533	3.493	6.5	20.7	6 30	18 1.81	-37 50.6	2.075	3.064	5.4	20.4
7 10	17 49.47	-44 59.3	2.572	3.496	8.1	20.8	7 10	17 51.79	-36 48.2	2.089	3.047	7.7	20.5
7 20	17 39.57	-44 58.4	2.637	3.499	10.2	21.0	7 20	17 43.51	-35 35.4	2.128	3.031	10.5	20.6
7 30	17 32.03	-44 44.7	2.724	3.500	12.2	21.1	7 30	17 37.69	-34 17.1	2.191	3.015	13.2	20.8
159611	2002 AX ₁₅		6 23.4 67°39		1°7/23.7 18		115990	2003 WF ₆₄		6 23.4 269°43		0°4/23.4 17	
5 21	18 36.08	-16 15.3	1.614	2.483	14.9	19.2	5 21	18 34.00	-22 26.4	1.943	2.813	12.7	20.2
5 31	18 30.19	-16 57.8	1.559	2.499	11.0	19.0	5 31	18 28.59	-22 23.7	1.861	2.803	9.4	20.0
6 10	18 22.00	-17 49.0	1.527	2.516	6.7	18.8	6 10	18 21.08	-22 21.7	1.801	2.793	5.6	19.8
6 20	18 12.35	-18 46.2	1.520	2.533	2.5	18.6	6 20	18 12.14	-22 19.3	1.768	2.782	1.5	19.5
6 30	18 2.36	-19 46.0	1.540	2.549	3.4	18.7	6 30	18 2.74	-22 16.0	1.761	2.772	2.9	19.5
7 10	17 53.26	-20 45.0	1.586	2.566	7.7	19.0	7 10	17 53.95	-22 11.8	1.782	2.761	7.0	19.8
7 20	17 46.01	-21 41.1	1.657	2.583	11.6	19.3	7 20	17 46.68	-22 7.6	1.827	2.751	10.8	20.0
7 30	17 41.30	-22 33.2	1.750	2.600	14.9	19.5	7 30	17 41.66	-22 4.2	1.894	2.740	14.1	20.2
120908	1998 SO ₄₁		6 23.4 289°00		0°2/23.4 18		309150	2006 YM ₃₇		6 23.4 108°57		0°7/23.5 18	
5 21	18 31.79	-22 46.7	2.304	3.170	11.1	20.5	5 21	18 32.88	-19 21.8	2.617	3.472	10.3	21.2
5 31	18 26.75	-22 48.6	2.212	3.152	8.2	20.3	5 31	18 27.13	-19 46.2	2.554	3.488	7.5	21.0
6 10	18 19.90	-22 51.2	2.144	3.135	4.9	20.1	6 10	18 19.92	-20 13.6	2.516	3.504	4.5	20.8
6 20	18 11.83	-22 53.3	2.102	3.117	1.3	19.8	6 20	18 11.81	-20 42.6	2.506	3.520	1.4	20.6
6 30	18 3.31	-22 54.3	2.088	3.099	2.5	19.8	6 30	18 3.48	-21 11.9	2.525	3.535	2.3	20.7
7 10	17 55.23	-22 54.0	2.102	3.081	6.2	20.0	7 10	17 55.69	-21 40.4	2.573	3.550	5.4	20.9
7 20	17 48.39	-22 53.0	2.142	3.063	9.6	20.2	7 20	17 49.04	-22 7.6	2.649	3.565	8.2	21.1
7 30	17 43.44	-22 52.0	2.204	3.046	12.6	20.4	7 30	17 44.05	-22 33.3	2.748	3.579	10.7	21.3
388553	2007 MK ₂₇		6 23.4 68°29		4°1/24.5 18		70126	1999 NT ₂		6 23.4 14°10		14°7/30.9 18 R	
5 21	18 50.33	-37 10.0	0.965	1.844	21.6	20.0	5 21	18 34.02	+11 27.2	1.049	1.861	25.0	17.3
5 31	18 41.96	-35 51.5	0.909	1.851	16.6	19.7	5 31	18 29.54	+10 48.4	0.995	1.866	22.0	17.1
6 10	18 29.28	-34 6.0	0.872	1.859	10.7	19.4	6 10	18 22.01	+9 20.3	0.955	1.871	18.8	16.9
6 20	18 14.16	-31 52.2	0.856	1.866	5.1	19.1	6 20	18 12.42	+6 58.6	0.932	1.879	16.0	16.8
6 30	17 59.12	-29 16.6	0.865	1.874	5.6	19.2	6 30	18 2.26	+3 47.2	0.930	1.888	14.8	16.7
7 10	17 46.54	-26 33.8	0.897	1.881	11.3	19.5	7 10	17 53.19	-0 0.5	0.950	1.898	15.7	16.8
7 20	17 37.88	-23 59.2	0.952	1.889	16.8	19.9	7 20	17 46.54	-4 5.5	0.993	1.910	18.2	17.0
7 30	17 33.72	-21 43.8	1.025	1.897	21.5	20.2	7 30	17 43.21	-8 9.2	1.056	1.924	21.3	17.3
104012	2000 DV ₁₀₆		6 23.4 156°01		4°8/24.0 18		221045	2005 QT ₉₄		6 23.4 344°89		1°4/23.4 17	
5 21	18 32.71	-8 16.6	2.219	3.059	12.4	20.3	5 21	18 31.66	-20 21.8	1.212	2.108	17.0	19.8
5 31	18 27.21	-8 11.3	2.149	3.063	9.8	20.1	5 31	18 27.81	-20 21.4	1.145	2.100	12.6	19.6
6 10	18 20.06	-8 16.8	2.101	3.067	7.0	20.0	6 10	18 21.02	-20 25.6	1.097	2.092	7.6	19.3
6 20	18 11.84	-8 33.8	2.079	3.071	5.0	19.8	6 20	18 12.19	-20 33.5	1.071	2.086	2.4	18.9
6 30	18 3.33	-9 2.0	2.085	3.074	5.3	19.9	6 30	18 2.70	-20 44.0	1.069	2.080	4.0	19.0
7 10	17 55.37	-9 39.9	2.117	3.077	7.5	20.0	7 10	17 54.13	-20 56.2	1.089	2.075	9.4	19.3
7 20	17 48.65	-10 25.6	2.176	3.080	10.3	20.2	7 20	17 47.80	-21 10.0	1.130	2.072	14.4	19.6
7 30	17 43.75	-11 16.7	2.257	3.082	12.9	20.4	7 30	17 44.62	-21 25.3	1.190	2.069	18.6	19.8
90002	2002 TL ₁₄₂		6 23.4 340°73		2°7/23.5 18		241164	2007 RR ₁₁₅		6 23.4 253°14		0°6/23.4 18	
5 21	18 30.36	-17 53.3	1.133	2.032	17.6	19.2	5 21	18 34.00	-21 55.7	2.053	2.920	12.3	21.0
5 31	18 27.00	-17 47.9	1.064	2.020	13.3	18.9	5 31	18 28.48	-21 49.3	1.970	2.911	9.1	20.8
6 10	18 20.62	-17 50.5	1.014	2.008	8.3	18.6	6 10	18 20.97	-21 43.5	1.911	2.901	5.4	20.6
6 20	18 12.08	-18 1.0	0.985	1.998	3.4	18.3	6 20	18 12.12	-21 37.8	1.877	2.891	1.5	20.3
6 30	18 2.79	-18 18.7	0.979	1.989	4.7	18.4	6 30	18 2.85	-21 31.7	1.871	2.882	2.8	20.4
7 10	17 54.39	-18 42.1	0.995	1.982	10.0	18.6	7 10	17 54.16	-21 25.5	1.893	2.872	6.7	20.6
7 20	17 48.25	-19 10.0	1.031	1.975	15.1	18.9	7 20	17 46.92	-21 19.8	1.939	2.861	10.4	20.8
7 30	17 45.39	-19 41.0	1.085	1.970	19.6	19.1	7 30	17 41.81	-21 15.7	2.008	2.851	13.6	21.0
22170	2000 WE ₁₇₅		6 23.4 297°22		4°1/24.1 18		260315	2004 TA ₁₄₄		6 23.4 270°19		5°2/23.1 18	
5 21	18 33.73	-11 33.2	1.652	2.515	14.9	17.9	5 21	18 30.38	-7 51.4	2.567	3.403	11.1	21.0
5 31	18 28.83	-11 53.4	1.559	2.492	11.6	17.7	5 31	18 25.45	-7 11.6	2.475	3.384	8.9	20.8
6 10	18 21.47	-12 27.5	1.488	2.469	7.8	17.4	6 10	18 19.03	-6 39.5	2.406	3.366	6.7	20.6
6 20	18 12.30	-13 15.6	1.441	2.447	4.5	17.1	6 20	18 11.62	-6 17.1	2.364	3.347	5.3	20.5
6 30	18 2.30	-14 16.1	1.420	2.424	5.0	17.1	6 30	18 3.84	-6 5.8	2.349	3.327	5.7	20.5
7 10	17 52.71	-15 25.7	1.425	2.401	8.8	17.3	7 10	17 56.43	-6 6.0	2.361	3.308	7.6	20.6
7 20	17 44.67	-16 40.9	1.454	2.379	13.0	17.5	7 20	17 50.01	-6 17.1	2.398	3.288	10.0	20.7
7 30	17 39.14	-17 58.1	1.505	2.357	16.8	17.6	7 30	17 45.14	-6 37.8	2.458	3.268	12.4	20.9
356673	2011 UP ₈₇		6 23.4 281°45		0°6/23.3 18		269096	2007 HN ₆₅		6 23.4 32°53		0°3/23.3 17	
5 21	18 32.69	-24 13.0	2.211	3.078	11.5	21.1	5 21	18 34.37	-21 9.4	1.384	2.269	15.9	19.6
5 31	18 27.40	-24 31.1	2.135	3.076	8.5	20.9	5 31	18 29.38	-21 55.6	1.330	2.279	11.7	19.3
6 10	18 20.26	-24 49.4	2.082	3.073	5.0	20.7	6 10	18 21.73	-22 46.9	1.296	2.290	6.9	19.1
6 20	18 11.91	-25 6.2	2.056	3.071	1.4	20.4	6 20	18 12.33	-23 39.6	1.287	2.302	1.8	18.8
6 30	18 3.19	-25 20.1	2.058	3.068	2.6	20.5	6 30	18 2.51	-24 29.6	1.302	2.314	3.5	18.9
7 10	17 55.03	-25 30.4	2.087	3.066	6.2	20.7	7 10	17 53.66	-25 14.1	1.343	2.326	8.4	19.3
7 20	17 48.23	-25 37.6	2.142	3.063	9.6	20.9	7 20	17 46.93	-25 52.2	1.406	2.339	12.7	19.5
7 30	17 43.42	-25 42.4	2.220	3.061	12.5	21.1	7 30	17 43.10	-26 24.3	1.490	2.353	16.4	19.8
334696	2003 DW ₁		6 23.4 118°21		1°1/23.5 17		385658	2005 SS ₂₁		6 23.4 219°99		18°1/20.3 18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
167906	2005 <i>EG</i> ₉₆		6 23.4 84°17'	6°4'/23.8 18			435621	2008 <i>SJ</i> ₁₁₄		6 23.4 338°59'	4°4'/23.6 16		
5 21	18 32.41	-6 33.5	1.904	2.748	14.0	19.9	5 21	18 26.81	-15 3.5	1.111	2.013	17.7	20.2
5 31	18 27.16	-6 0.9	1.843	2.756	11.2	19.7	5 31	18 24.50	-14 48.5	1.034	1.990	13.6	19.9
6 10	18 20.09	-5 41.0	1.804	2.764	8.5	19.6	6 10	18 19.26	-14 44.4	0.976	1.968	9.0	19.5
6 20	18 11.88	-5 36.0	1.789	2.772	6.6	19.5	6 20	18 11.83	-14 53.0	0.938	1.947	4.9	19.2
6 30	18 3.42	-5 46.4	1.800	2.781	6.9	19.5	6 30	18 3.50	-15 14.9	0.921	1.929	5.8	19.2
7 10	17 55.63	-6 11.3	1.837	2.789	9.0	19.7	7 10	17 55.89	-15 48.6	0.926	1.912	10.7	19.4
7 20	17 49.28	-6 48.6	1.897	2.797	11.8	19.8	7 20	17 50.41	-16 31.8	0.951	1.898	15.8	19.6
7 30	17 44.97	-7 35.1	1.979	2.805	14.4	20.0	7 30	17 48.17	-17 21.2	0.992	1.885	20.4	19.9
367437	2008 <i>SF</i> ₁₄₆		6 23.4 280°70'	3°0'/23.3 18			62008	2000 <i>RR</i> ₃₉		6 23.4 125°27'	1°7'/23.2 18		
5 21	18 29.51	-14 18.1	2.682	3.535	10.2	21.1	5 21	18 33.72	-28 3.6	2.491	3.351	10.6	18.6
5 31	18 24.72	-13 49.9	2.597	3.525	7.7	21.0	5 31	18 27.96	-28 28.4	2.423	3.359	7.9	18.4
6 10	18 18.55	-13 25.9	2.537	3.516	5.2	20.8	6 10	18 20.53	-28 50.7	2.379	3.366	4.8	18.2
6 20	18 11.49	-13 7.1	2.503	3.506	3.2	20.6	6 20	18 12.03	-29 8.4	2.362	3.374	2.1	18.0
6 30	18 4.16	-12 54.1	2.498	3.497	3.7	20.7	6 30	18 3.25	-29 20.2	2.374	3.381	2.9	18.1
7 10	17 57.23	-12 47.4	2.520	3.487	6.1	20.8	7 10	17 55.06	-29 25.6	2.414	3.388	5.9	18.3
7 20	17 51.30	-12 46.8	2.569	3.477	8.7	20.9	7 20	17 48.16	-29 25.5	2.480	3.395	8.8	18.5
7 30	17 46.86	-12 52.0	2.641	3.468	11.2	21.1	7 30	17 43.12	-29 21.5	2.570	3.401	11.3	18.7
353152	2009 <i>HM</i> ₄₂		6 23.4 187°81'	2°3'/23.0 18			237981	2002 <i>RG</i> ₂₆₆		6 23.4 226°84'	1°4'/23.5 17		
5 21	18 34.95	-28 43.7	2.368	3.227	11.1	20.9	5 21	18 33.50	-18 51.5	1.984	2.850	12.6	20.8
5 31	18 29.05	-29 25.2	2.292	3.227	8.3	20.7	5 31	18 28.12	-19 0.1	1.909	2.848	9.4	20.6
6 10	18 21.26	-30 4.6	2.241	3.226	5.2	20.5	6 10	18 20.78	-19 12.9	1.857	2.847	5.7	20.4
6 20	18 12.21	-30 38.9	2.216	3.226	2.6	20.3	6 20	18 12.12	-19 29.0	1.832	2.845	2.0	20.1
6 30	18 2.73	-31 5.7	2.221	3.225	3.4	20.4	6 30	18 3.07	-19 47.2	1.833	2.843	3.0	20.2
7 10	17 53.80	-31 24.0	2.252	3.223	6.4	20.6	7 10	17 54.62	-20 6.7	1.862	2.841	6.8	20.4
7 20	17 46.22	-31 34.4	2.310	3.222	9.5	20.8	7 20	17 47.63	-20 26.9	1.916	2.839	10.5	20.6
7 30	17 40.67	-31 38.6	2.392	3.220	12.1	21.0	7 30	17 42.77	-20 47.7	1.992	2.837	13.6	20.8
350399	2012 <i>VA</i> ₂₅		6 23.4 236°55'	1°7'/23.1 18			498000	2007 <i>EO</i> ₅₈		6 23.4 250°54'	3°8'/23.3 18		
5 21	18 35.85	-25 55.5	2.253	3.113	11.6	20.8	5 21	18 40.69	-33 19.6	2.051	2.903	12.8	22.4
5 31	18 29.87	-26 42.0	2.166	3.103	8.6	20.6	5 31	18 33.80	-33 40.3	1.953	2.881	9.9	22.2
6 10	18 21.85	-27 29.1	2.103	3.092	5.2	20.4	6 10	18 24.36	-33 54.0	1.880	2.859	6.6	22.0
6 20	18 12.38	-28 13.6	2.068	3.081	2.0	20.2	6 20	18 13.09	-33 56.9	1.832	2.836	4.0	21.7
6 30	18 2.35	-28 52.6	2.062	3.069	3.2	20.2	6 30	18 1.11	-33 46.2	1.812	2.812	4.7	21.7
7 10	17 52.77	-29 24.4	2.083	3.057	6.6	20.4	7 10	17 49.73	-33 22.3	1.820	2.787	8.0	21.9
7 20	17 44.54	-29 48.7	2.131	3.045	10.0	20.6	7 20	17 40.10	-32 47.7	1.853	2.761	11.5	22.1
7 30	17 38.42	-30 6.8	2.202	3.032	13.0	20.8	7 30	17 33.09	-32 6.7	1.908	2.735	14.8	22.2
150143	1996 <i>AC</i> ₇		6 23.4 237°58'	2°2'/23.3 18			201230	2002 <i>QD</i> ₁₂₃		6 23.4 262°30'	0°3'/23.4 18		
5 21	18 34.22	-30 32.5	2.572	3.428	10.5	20.9	5 21	18 33.95	-21 26.6	1.984	2.852	12.6	20.0
5 31	18 28.39	-30 41.6	2.486	3.418	7.8	20.7	5 31	18 28.56	-21 47.9	1.903	2.845	9.3	19.8
6 10	18 20.81	-30 46.2	2.424	3.408	5.0	20.5	6 10	18 21.10	-22 12.2	1.846	2.837	5.5	19.5
6 20	18 12.09	-30 44.4	2.389	3.397	2.5	20.3	6 20	18 12.22	-22 37.5	1.815	2.830	1.5	19.2
6 30	18 3.01	-30 35.2	2.382	3.387	3.1	20.3	6 30	18 2.86	-23 2.1	1.812	2.823	2.8	19.3
7 10	17 54.45	-30 19.0	2.404	3.376	6.0	20.5	7 10	17 54.06	-23 24.9	1.836	2.815	6.9	19.6
7 20	17 47.17	-29 57.1	2.452	3.364	8.9	20.7	7 20	17 46.73	-23 45.4	1.884	2.808	10.6	19.8
7 30	17 41.76	-29 31.8	2.523	3.353	11.5	20.8	7 30	17 41.60	-24 4.1	1.955	2.800	13.8	20.0
282450	2004 <i>BE</i> ₁₀₉		6 23.4 261°11'	3°6'/23.9 18			48096	2001 <i>FP</i> ₅₁		6 23.4 17°47'	0°6'/23.3 18		
5 21	18 33.14	-11 42.8	2.138	2.988	12.5	20.7	5 21	18 35.02	-23 44.1	1.291	2.180	16.6	19.0
5 31	18 27.81	-11 53.0	2.048	2.974	9.6	20.5	5 31	18 30.11	-24 0.0	1.231	2.182	12.2	18.8
6 10	18 20.60	-12 13.0	1.982	2.959	6.5	20.2	6 10	18 22.30	-24 17.1	1.191	2.185	7.3	18.5
6 20	18 12.07	-12 42.6	1.941	2.944	3.9	20.0	6 20	18 12.55	-24 32.7	1.174	2.189	1.9	18.2
6 30	18 3.03	-13 21.2	1.928	2.929	4.4	20.0	6 30	18 2.30	-24 44.6	1.181	2.193	3.7	18.3
7 10	17 54.41	-14 6.9	1.943	2.914	7.3	20.2	7 10	17 53.10	-24 52.1	1.213	2.197	8.9	18.6
7 20	17 47.04	-14 57.7	1.983	2.898	10.6	20.4	7 20	17 46.21	-24 56.1	1.266	2.202	13.6	18.9
7 30	17 41.60	-15 51.7	2.047	2.882	13.6	20.5	7 30	17 42.45	-24 58.3	1.339	2.208	17.6	19.2
438823	2009 <i>AZ</i> ₁₃		6 23.4 102°86'	1°7'/23.5 17			449605	2014 <i>JN</i> ₆₂		6 23.4 313°82'	3°2'/23.5 18		
5 21	18 33.40	-18 22.6	1.970	2.836	12.7	21.6	5 21	18 30.40	-14 50.5	1.965	2.832	12.7	21.1
5 31	18 27.99	-18 25.2	1.900	2.840	9.4	21.4	5 31	18 26.00	-14 39.5	1.872	2.808	9.7	20.8
6 10	18 20.65	-18 32.1	1.855	2.843	5.8	21.2	6 10	18 19.63	-14 35.1	1.801	2.785	6.4	20.6
6 20	18 12.06	-18 42.7	1.835	2.847	2.2	20.9	6 20	18 11.87	-14 37.8	1.755	2.762	3.5	20.4
6 30	18 3.14	-18 56.0	1.842	2.851	3.2	21.0	6 30	18 3.55	-14 47.9	1.735	2.739	4.2	20.4
7 10	17 54.88	-19 11.4	1.876	2.854	6.9	21.3	7 10	17 55.64	-15 5.0	1.742	2.717	7.6	20.5
7 20	17 48.10	-19 28.4	1.935	2.858	10.4	21.5	7 20	17 49.05	-15 28.1	1.773	2.695	11.2	20.7
7 30	17 43.44	-19 46.8	2.017	2.861	13.5	21.7	7 30	17 44.51	-15 56.2	1.826	2.673	14.5	20.9
503505	2016 <i>ES</i> ₂₀₂		6 23.4 14°42'	9°1'/25.2 17			141065	2001 <i>XS</i> ₁₂		6 23.4 307°48'	1°5'/23.5 18		
5 21	18 32.38	-3 16.8	1.187	2.050	19.5	20.1	5 21	18 34.49	-28 41.3	1.970	2.838	12.6	19.8
5 31	18 28.10	-3 8.1	1.131	2.053	15.9	19.9	5 31	18 28.97	-28 29.5	1.889	2.829	9.4	19.6
6 10	18 21.07	-3 24.6	1.093	2.056	12.3	19.7	6 10	18 21.32	-28 12.4	1.831	2.820	5.7	19.3
6 20	18 12.22	-4 8.8	1.074	2.060	9.6	19.6	6 20	18 12.27	-27 48.9	1.799	2.811	2.1	19.1
6 30	18 2.84	-5 19.8	1.078	2.064	9.5	19.6	6 30	18 2.84	-27 18.5	1.794	2.803	3.1	19.1
7 10	17 54.41	-6 52.5	1.105	2.070	12.1	19.7	7 10	17 54.12	-26 42.8	1.816	2.795	7.0	19.3
7 20	17 48.11	-8 39.2	1.152	2.076	15.7	20.0	7 20	17 47.02	-26 4.3	1.863	2.787	10.7	19.5
7 30	17 44.78	-10 32.1	1.218	2.083	19.2	20.2	7 30	17 42.25	-25 25.7	1.932	2.779	13.9	19.7
508732	2017 <i>UR</i> ₂₈		6 23.4 237°40'	0°9'/23.3 17			291897						

EPHEMERIDES

6 23.4

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
310100	2010 <i>RU</i> ₄₂		6 23.4 117°43	1.1°/23.4	18		261851	2006 <i>DD</i> ₁₈₆		6 23.4 155°94	1.0°/23.3	18	
5 21	18 32.12	-20 21.1	2.425	3.286	10.8	21.3	5 21	18 31.83	-26 29.6	2.884	3.741	9.4	21.4
5 31	18 26.73	-20 12.2	2.355	3.292	8.0	21.1	5 31	18 26.41	-26 44.4	2.810	3.745	6.9	21.2
6 10	18 19.79	-20 4.8	2.310	3.299	4.8	20.9	6 10	18 19.58	-26 57.6	2.761	3.749	4.1	21.0
6 20	18 11.87	-19 58.7	2.291	3.305	1.6	20.7	6 20	18 11.85	-27 7.9	2.739	3.752	1.4	20.9
6 30	18 3.74	-19 53.8	2.301	3.311	2.5	20.8	6 30	18 3.88	-27 14.4	2.747	3.756	2.3	20.9
7 10	17 56.17	-19 50.2	2.339	3.316	5.8	21.0	7 10	17 56.37	-27 16.9	2.783	3.759	5.1	21.1
7 20	17 49.82	-19 48.2	2.403	3.322	8.8	21.2	7 20	17 49.94	-27 15.9	2.847	3.762	7.7	21.3
7 30	17 45.21	-19 48.1	2.491	3.328	11.5	21.4	7 30	17 45.06	-27 12.5	2.934	3.764	10.1	21.5
59076	1998 <i>VT</i> ₁₄		6 23.4 281°04	4.4°/23.0	18		45852	2000 <i>SG</i> ₂₅₉		6 23.4 83°26	3.9°/23.6	18	
5 21	18 33.15	-13 47.4	1.921	2.781	13.2	19.3	5 21	18 35.30	-13 36.6	1.759	2.620	14.2	18.9
5 31	18 27.93	-12 56.9	1.837	2.768	10.2	19.1	5 31	18 29.36	-13 18.9	1.707	2.639	10.8	18.7
6 10	18 20.72	-12 11.4	1.776	2.755	7.0	18.9	6 10	18 21.43	-13 9.4	1.678	2.659	7.1	18.6
6 20	18 12.16	-11 33.0	1.741	2.742	4.6	18.7	6 20	18 12.32	-13 8.7	1.674	2.678	4.2	18.4
6 30	18 3.17	-11 3.7	1.732	2.728	5.3	18.7	6 30	18 3.04	-13 16.6	1.696	2.697	4.7	18.5
7 10	17 54.75	-10 45.0	1.750	2.715	8.4	18.9	7 10	17 54.63	-13 32.3	1.745	2.716	7.9	18.7
7 20	17 47.75	-10 37.0	1.792	2.702	11.8	19.0	7 20	17 47.90	-13 54.5	1.818	2.735	11.3	19.0
7 30	17 42.88	-10 39.2	1.855	2.689	14.9	19.2	7 30	17 43.44	-14 21.9	1.913	2.753	14.3	19.2
263988	2009 <i>LJ</i> ₁		6 23.4 26°27	7.7°/23.3	17		242531	2005 <i>AW</i> ₅₈		6 23.4 170°29	1.5°/23.5	18	
5 21	18 32.27	-10 51.7	1.084	1.972	19.1	19.6	5 21	18 34.50	-18 24.1	2.337	3.193	11.3	21.4
5 31	18 28.04	-9 44.0	1.039	1.981	15.0	19.4	5 31	18 28.56	-18 25.6	2.263	3.197	8.4	21.2
6 10	18 21.01	-8 50.7	1.012	1.992	10.8	19.2	6 10	18 20.93	-18 30.4	2.213	3.200	5.1	21.0
6 20	18 12.23	-8 16.2	1.006	2.004	7.9	19.1	6 20	18 12.21	-18 38.1	2.190	3.202	2.0	20.8
6 30	18 3.17	-8 3.3	1.022	2.016	8.5	19.2	6 30	18 3.20	-18 47.9	2.196	3.204	2.8	20.8
7 10	17 55.31	-8 11.6	1.060	2.030	11.9	19.4	7 10	17 54.74	-18 59.4	2.230	3.206	6.1	21.0
7 20	17 49.77	-8 38.0	1.117	2.044	15.8	19.7	7 20	17 47.56	-19 12.4	2.291	3.207	9.3	21.2
7 30	17 47.28	-9 18.0	1.192	2.060	19.4	19.9	7 30	17 42.23	-19 26.8	2.375	3.207	12.1	21.4
21014	<i>Daishi</i>		6 23.4 257°57	0.7°/23.4	18		103257	2000 <i>AG</i> ₁₉		6 23.4 302°56	2.8°/23.1	18	
5 21	18 32.16	-21 8.0	2.604	3.463	10.2	19.3	5 21	18 36.08	-27 39.4	1.364	2.249	16.1	19.3
5 31	18 26.86	-21 7.9	2.509	3.446	7.6	19.1	5 31	18 31.46	-28 14.2	1.271	2.220	12.2	19.0
6 10	18 19.95	-21 9.2	2.440	3.429	4.5	18.9	6 10	18 23.55	-28 48.6	1.198	2.190	7.7	18.6
6 20	18 11.95	-21 11.0	2.398	3.412	1.3	18.6	6 20	18 13.06	-29 18.1	1.149	2.161	3.3	18.3
6 30	18 3.58	-21 13.1	2.385	3.394	2.4	18.7	6 30	18 1.33	-29 38.0	1.123	2.131	4.8	18.3
7 10	17 55.58	-21 15.1	2.399	3.377	5.6	18.9	7 10	17 50.13	-29 46.3	1.121	2.102	10.0	18.5
7 20	17 48.67	-21 17.4	2.441	3.359	8.7	19.1	7 20	17 41.10	-29 44.2	1.141	2.073	15.1	18.7
7 30	17 43.43	-21 20.4	2.506	3.340	11.5	19.2	7 30	17 35.51	-29 34.8	1.180	2.045	19.7	18.9
146174	2000 <i>SV</i> ₂₉₅		6 23.4 249°47	1.3°/23.4	18		446731	2015 <i>OF</i> ₇₄		6 23.4 303°94	3.7°/23.9	18	
5 21	18 34.09	-27 47.0	2.797	3.651	9.8	20.7	5 21	18 31.10	-11 55.0	2.074	2.930	12.6	21.1
5 31	18 28.24	-27 53.1	2.699	3.632	7.3	20.5	5 31	18 26.36	-11 58.1	1.989	2.918	9.7	20.9
6 10	18 20.76	-27 56.4	2.625	3.612	4.4	20.3	6 10	18 19.79	-12 10.6	1.926	2.905	6.6	20.6
6 20	18 12.17	-27 55.6	2.579	3.592	1.7	20.0	6 20	18 11.95	-12 32.8	1.889	2.892	4.1	20.5
6 30	18 3.18	-27 49.7	2.563	3.571	2.5	20.1	6 30	18 3.66	-13 4.2	1.879	2.880	4.5	20.5
7 10	17 54.59	-27 38.9	2.575	3.549	5.5	20.3	7 10	17 55.81	-13 43.2	1.896	2.867	7.4	20.6
7 20	17 47.09	-27 24.1	2.615	3.528	8.4	20.4	7 20	17 49.22	-14 28.2	1.938	2.855	10.7	20.8
7 30	17 41.28	-27 7.0	2.678	3.505	11.0	20.6	7 30	17 44.56	-15 17.0	2.002	2.843	13.7	21.0
231876	2000 <i>UV</i> ₄₃		6 23.4 210°61	0.9°/23.4	18		472080	2013 <i>YF</i> ₁₀₇		6 23.4 128°29	1.5°/23.5	17	
5 21	18 35.56	-20 46.2	2.407	3.263	11.1	21.6	5 21	18 34.23	-18 38.7	1.955	2.820	12.8	21.8
5 31	18 29.38	-20 39.1	2.321	3.255	8.2	21.4	5 31	18 28.65	-18 43.8	1.886	2.825	9.5	21.6
6 10	18 21.44	-20 33.0	2.259	3.247	4.9	21.1	6 10	18 21.09	-18 53.1	1.840	2.829	5.8	21.3
6 20	18 12.34	-20 27.5	2.225	3.238	1.6	20.9	6 20	18 12.27	-19 5.7	1.820	2.833	2.1	21.1
6 30	18 2.87	-20 22.3	2.220	3.229	2.6	21.0	6 30	18 3.11	-19 20.7	1.828	2.837	3.1	21.2
7 10	17 53.91	-20 17.6	2.243	3.219	6.1	21.2	7 10	17 54.62	-19 37.2	1.863	2.841	6.9	21.4
7 20	17 46.21	-20 13.8	2.293	3.208	9.4	21.4	7 20	17 47.64	-19 55.0	1.923	2.845	10.5	21.7
7 30	17 40.37	-20 11.7	2.366	3.196	12.2	21.5	7 30	17 42.81	-20 13.7	2.005	2.849	13.6	21.9
158457	2002 <i>CK</i> ₁₄₈		6 23.4 256°47	1.4°/23.3	17		331473	1993 <i>TP</i> ₅		6 23.4 264°12	0.4°/23.4	18	
5 21	18 36.40	-26 37.7	1.868	2.737	13.2	21.3	5 21	18 34.54	-22 34.6	2.155	3.019	11.9	21.5
5 31	18 30.60	-26 48.6	1.783	2.724	9.8	21.1	5 31	18 28.94	-22 29.4	2.062	3.001	8.8	21.3
6 10	18 22.44	-26 57.3	1.721	2.711	6.0	20.8	6 10	18 21.34	-22 24.3	1.991	2.982	5.3	21.0
6 20	18 12.64	-27 1.6	1.685	2.698	2.0	20.5	6 20	18 12.36	-22 18.6	1.948	2.962	1.4	20.7
6 30	18 2.27	-26 59.8	1.675	2.685	3.3	20.6	6 30	18 2.88	-22 11.7	1.932	2.943	2.7	20.8
7 10	17 52.54	-26 52.0	1.693	2.671	7.4	20.8	7 10	17 53.87	-22 3.8	1.944	2.923	6.6	21.0
7 20	17 44.50	-26 39.6	1.735	2.657	11.4	21.0	7 20	17 46.23	-21 55.8	1.982	2.902	10.3	21.2
7 30	17 38.95	-26 24.9	1.799	2.643	14.8	21.2	7 30	17 40.65	-21 48.8	2.042	2.882	13.5	21.3
87496	2000 <i>QJ</i> ₁₆₂		6 23.4 233°87	0.9°/23.3	18		435262	2007 <i>TQ</i> ₁₈₉		6 23.4 63°42	3.1°/23.5	17	
5 21	18 35.94	-22 37.5	1.745	2.616	13.8	19.1	5 21	18 33.14	-15 20.8	1.868	2.733	13.4	21.4
5 31	18 30.14	-22 13.6	1.671	2.614	10.2	18.9	5 31	18 27.90	-15 6.3	1.799	2.735	10.1	21.2
6 10	18 22.07	-21 49.1	1.620	2.611	6.1	18.6	6 10	18 20.67	-14 58.2	1.752	2.737	6.5	21.0
6 20	18 12.51	-21 23.7	1.595	2.609	1.8	18.3	6 20	18 12.17	-14 56.7	1.731	2.739	3.5	20.8
6 30	18 2.58	-20 57.9	1.596	2.606	3.2	18.4	6 30	18 3.34	-15 2.0	1.737	2.741	4.2	20.9
7 10	17 53.44	-20 33.0	1.624	2.603	7.6	18.7	7 10	17 55.17	-15 13.7	1.768	2.743	7.5	21.1
7 20	17 46.07	-20 10.6	1.676	2.601	11.6	18.9	7 20	17 48.52	-15 30.8	1.825	2.745	11.0	21.3
7 30	17 41.18	-19 52.3	1.749	2.598	15.0	19.1	7 30	17 44.03	-15 52.6	1.903	2.747	14.2	21.5
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EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
9172	Abhramu		6 23.4 329°37'	2°5'/23.6	17		373105	2011 GX ₃₈		6 23.4 135°17'	1°3'/23.5	17	
5 21	18 35.91	-29 23.8	1.215	2.106	17.3	19.4	5 21	18 36.40	-18 46.3	1.967	2.829	12.9	21.2
5 31	18 32.35	-29 13.6	1.086	2.038	13.5	18.9	5 31	18 30.20	-18 58.5	1.902	2.839	9.6	21.0
6 10	18 24.83	-28 53.9	0.975	1.969	8.7	18.4	6 10	18 22.01	-19 14.9	1.861	2.849	5.8	20.8
6 20	18 13.62	-28 19.3	0.886	1.899	3.4	17.9	6 20	18 12.55	-19 34.2	1.846	2.859	2.0	20.5
6 30	17 59.88	-27 25.0	0.819	1.830	5.2	17.7	6 30	18 2.78	-19 55.0	1.858	2.868	3.0	20.6
7 10	17 45.64	-26 10.1	0.775	1.761	12.1	17.8	7 10	17 53.73	-20 16.4	1.899	2.876	6.8	20.9
7 20	17 33.20	-24 39.5	0.750	1.692	19.4	17.9	7 20	17 46.24	-20 37.9	1.964	2.885	10.4	21.1
7 30	17 24.71	-23 2.5	0.741	1.625	26.3	18.0	7 30	17 40.96	-20 59.4	2.053	2.892	13.5	21.3
510049	2010 EM ₇₇		6 23.4 171°03'	11°6'/24.3	17		470301	2007 GU ₅₅		6 23.4 349°37'	0°9'/23.3	17	
5 21	18 32.79	+14 2.2	2.477	3.198	14.5	22.1	5 21	18 32.87	-22 49.7	1.361	2.250	15.9	20.4
5 31	18 27.19	+15 6.0	2.418	3.202	13.3	22.0	5 31	18 28.61	-23 31.4	1.292	2.244	11.8	20.1
6 10	18 20.08	+15 48.9	2.378	3.205	12.3	21.9	6 10	18 21.54	-24 17.5	1.245	2.239	7.0	19.8
6 20	18 12.01	+16 6.9	2.359	3.207	11.7	21.9	6 20	18 12.51	-25 4.2	1.220	2.235	2.0	19.5
6 30	18 3.69	+15 58.2	2.362	3.209	11.7	21.9	6 30	18 2.79	-25 47.5	1.220	2.231	3.7	19.6
7 10	17 55.86	+15 23.5	2.388	3.210	12.4	22.0	7 10	17 53.89	-26 25.0	1.244	2.229	8.8	19.9
7 20	17 49.18	+14 25.7	2.434	3.211	13.4	22.0	7 20	17 47.08	-26 55.6	1.291	2.227	13.4	20.2
7 30	17 44.17	+13 9.3	2.499	3.211	14.7	22.1	7 30	17 43.29	-27 20.1	1.357	2.226	17.4	20.4
349245	2007 TW ₁₁₁		6 23.4 258°58'	1°0'/23.4	18		188556	2004 TD ₆₂		6 23.4 281°23'	0°8'/23.3	18	
5 21	18 34.63	-21 26.6	2.192	3.054	11.8	21.4	5 21	18 32.48	-24 54.3	2.323	3.188	11.1	20.7
5 31	18 28.94	-21 9.5	2.099	3.037	8.7	21.2	5 31	18 27.31	-25 10.8	2.237	3.177	8.2	20.5
6 10	18 21.31	-20 52.6	2.030	3.019	5.3	21.0	6 10	18 20.34	-25 27.2	2.175	3.166	4.9	20.3
6 20	18 12.37	-20 35.7	1.987	3.001	1.7	20.7	6 20	18 12.14	-25 41.6	2.140	3.154	1.4	20.0
6 30	18 2.96	-20 18.8	1.973	2.982	2.8	20.7	6 30	18 3.52	-25 52.8	2.133	3.143	2.6	20.1
7 10	17 54.04	-20 2.7	1.986	2.963	6.6	20.9	7 10	17 55.37	-26 0.2	2.154	3.132	6.1	20.3
7 20	17 46.46	-19 48.3	2.025	2.944	10.2	21.1	7 20	17 48.49	-26 4.3	2.200	3.121	9.4	20.5
7 30	17 40.90	-19 36.7	2.087	2.924	13.3	21.3	7 30	17 43.51	-26 5.9	2.269	3.109	12.3	20.7
507864	2014 HS ₁₈₃		6 23.4 81°96'	3°9'/22.8	17		67795	2000 UC ₁₀₄		6 23.4 337°04'	0°5'/23.3	18	
5 21	18 37.50	-32 49.5	2.260	3.113	11.8	21.5	5 21	18 34.60	-25 38.4	1.385	2.272	15.8	17.8
5 31	18 30.98	-33 50.4	2.207	3.135	8.9	21.3	5 31	18 29.73	-24 45.5	1.310	2.261	11.8	17.5
6 10	18 22.44	-34 45.7	2.180	3.157	6.0	21.2	6 10	18 22.09	-23 46.1	1.257	2.251	7.0	17.2
6 20	18 12.63	-35 31.3	2.179	3.178	4.0	21.1	6 20	18 12.62	-22 41.0	1.226	2.241	1.9	16.8
6 30	18 2.53	-36 4.2	2.206	3.200	4.7	21.1	6 30	18 2.65	-21 32.8	1.221	2.233	3.6	16.9
7 10	17 53.17	-36 24.0	2.261	3.221	7.1	21.3	7 10	17 53.66	-20 25.8	1.241	2.225	8.8	17.2
7 20	17 45.41	-36 31.9	2.341	3.241	9.8	21.5	7 20	17 46.83	-19 24.3	1.283	2.218	13.6	17.5
7 30	17 39.88	-36 30.8	2.444	3.262	12.2	21.7	7 30	17 42.97	-18 31.7	1.345	2.212	17.6	17.7
414096	2007 TD ₂₂₉		6 23.4 173°37'	0°8'/23.4	17		66853	1999 VH ₁₂		6 23.4 319°00'	5°9'/21.9	18	
5 21	18 38.49	-21 23.9	1.767	2.633	14.0	22.2	5 21	18 34.97	-31 11.9	1.395	2.279	15.9	18.0
5 31	18 31.99	-21 21.1	1.696	2.636	10.3	22.0	5 31	18 30.93	-32 42.6	1.299	2.243	12.4	17.7
6 10	18 23.18	-21 19.7	1.648	2.638	6.2	21.8	6 10	18 23.47	-34 16.0	1.224	2.208	8.6	17.3
6 20	18 12.85	-21 18.8	1.625	2.640	1.8	21.5	6 20	18 13.16	-35 44.0	1.171	2.174	6.0	17.1
6 30	18 2.12	-21 17.6	1.631	2.641	3.1	21.6	6 30	18 1.27	-36 57.8	1.144	2.140	7.4	17.1
7 10	17 52.20	-21 16.1	1.662	2.641	7.5	21.9	7 10	17 49.64	-37 51.6	1.139	2.107	11.6	17.2
7 20	17 44.07	-21 15.0	1.719	2.641	11.5	22.1	7 20	17 40.10	-38 23.9	1.156	2.074	16.1	17.4
7 30	17 38.47	-21 15.4	1.798	2.641	14.9	22.3	7 30	17 34.20	-38 38.2	1.191	2.043	20.4	17.5
293144	2006 XS ₇₂		6 23.4 195°65'	2°6'/23.4	18		428246	2006 YS ₅₂		6 23.4 176°40'	2°7'/23.4	17	
5 21	18 34.64	-31 39.8	2.385	3.242	11.1	21.3	5 21	18 39.50	-30 55.2	2.027	2.884	12.8	22.7
5 31	18 28.81	-31 50.5	2.309	3.241	8.4	21.1	5 31	18 32.64	-31 8.0	1.954	2.886	9.6	22.5
6 10	18 21.15	-31 55.7	2.258	3.240	5.4	21.0	6 10	18 23.52	-31 15.0	1.904	2.888	6.1	22.3
6 20	18 12.31	-31 53.3	2.232	3.240	2.9	20.8	6 20	18 12.95	-31 13.4	1.881	2.889	3.1	22.1
6 30	18 3.17	-31 42.3	2.235	3.238	3.5	20.8	6 30	18 2.02	-31 1.6	1.885	2.890	3.8	22.1
7 10	17 54.66	-31 23.2	2.266	3.237	6.3	21.0	7 10	17 51.90	-30 40.5	1.917	2.890	7.2	22.3
7 20	17 47.58	-30 57.8	2.322	3.236	9.3	21.2	7 20	17 43.55	-30 12.5	1.975	2.889	10.7	22.6
7 30	17 42.51	-30 28.7	2.402	3.235	12.0	21.4	7 30	17 37.66	-29 40.9	2.055	2.888	13.7	22.8
491774	2012 WU ₁₂		6 23.4 313°02'	2°4'/23.4	16		480192	2015 FS ₃₃₇		6 23.4 319°85'	0°7'/23.6	18	
5 21	18 32.89	-18 14.8	1.797	2.669	13.5	21.3	5 21	18 33.72	-18 3.7	1.707	2.580	14.0	20.2
5 31	18 27.88	-17 49.8	1.720	2.661	10.1	21.1	5 31	18 28.84	-18 58.2	1.623	2.566	10.5	20.0
6 10	18 20.76	-17 28.1	1.666	2.654	6.3	20.8	6 10	18 21.55	-20 2.2	1.562	2.553	6.3	19.7
6 20	18 12.24	-17 10.2	1.636	2.647	2.9	20.6	6 20	18 12.51	-21 12.8	1.526	2.540	1.8	19.4
6 30	18 3.29	-16 56.8	1.633	2.640	3.8	20.6	6 30	18 2.74	-22 25.9	1.517	2.528	3.1	19.4
7 10	17 55.00	-16 48.5	1.656	2.633	7.7	20.8	7 10	17 53.46	-23 37.6	1.534	2.516	7.7	19.7
7 20	17 48.28	-16 45.5	1.703	2.627	11.5	21.1	7 20	17 45.77	-24 44.8	1.576	2.504	12.0	19.9
7 30	17 43.83	-16 47.9	1.771	2.620	14.8	21.3	7 30	17 40.58	-25 46.3	1.640	2.493	15.6	20.1
227524	2005 YF ₅₆		6 23.4 223°12'	1°0'/23.3	18		442888	2013 BU ₄₇		6 23.4 84°17'	1°8'/23.4	16	
5 21	18 36.29	-24 52.3	1.906	2.774	13.0	20.8	5 21	18 34.34	-28 31.3	2.189	3.052	11.7	21.6
5 31	18 30.43	-25 14.2	1.828	2.769	9.6	20.6	5 31	18 28.64	-28 45.2	2.123	3.061	8.7	21.5
6 10	18 22.31	-25 36.0	1.773	2.763	5.8	20.3	6 10	18 21.06	-28 55.8	2.081	3.069	5.3	21.3
6 20	18 12.66	-25 55.4	1.743	2.757	1.7	20.0	6 20	18 12.31	-29 0.9	2.066	3.078	2.2	21.1
6 30	18 2.50	-26 10.2	1.741	2.751	3.1	20.1	6 30	18 3.29	-28 59.4	2.079	3.086	3.1	21.1
7 10	17 52.98	-26 19.9	1.766	2.745	7.2	20.4	7 10	17 54.98	-28 51.6	2.118	3.094	6.4	21.4
7 20	17 45.11	-26 25.0	1.817	2.738	11.0	20.6	7 20	17 48.16	-28 38.8	2.184	3.103	9.6	21.6
7 30	17 39.63	-26 27.0	1.889	2.732	14.3	20.8	7 30	17 43.42	-28 23.1	2.272	3.111	12.3	21.8
510931	2013 EZ ₆₂		6 23.4 187°38'	5°8'/23.9	18		161497	2004 NY ₃₂		6 23.4 249°46'	0°1'/23.4	18	</

EPHEMERIDES

6 23.4

6 23.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
384020	2008 <i>UO</i> ₉₅		6 23.4 181°68	0°8/23.3	18		68078	2000 <i>YV</i> ₉₃		6 23.4 342°83	2°1/23.7	18	
5 21	18 35.84	-24 2.5	2.133	2.995	12.0	21.2	5 21	18 31.11	-16 44.6	1.981	2.849	12.6	19.0
5 31	18 29.86	-24 35.3	2.057	2.996	8.9	20.9	5 31	18 26.45	-16 53.6	1.905	2.844	9.4	18.8
6 10	18 21.88	-25 9.1	2.006	2.996	5.3	20.7	6 10	18 19.89	-17 8.7	1.852	2.840	5.9	18.6
6 20	18 12.55	-25 41.2	1.982	2.996	1.6	20.5	6 20	18 12.06	-17 29.3	1.825	2.836	2.6	18.3
6 30	18 2.80	-26 9.5	1.986	2.996	2.8	20.6	6 30	18 3.84	-17 54.3	1.824	2.833	3.3	18.4
7 10	17 53.63	-26 32.8	2.018	2.995	6.5	20.8	7 10	17 56.16	-18 22.7	1.851	2.829	6.9	18.6
7 20	17 45.92	-26 51.1	2.075	2.994	10.0	21.0	7 20	17 49.86	-18 53.1	1.902	2.826	10.4	18.8
7 30	17 40.35	-27 5.3	2.156	2.992	13.0	21.2	7 30	17 45.59	-19 24.7	1.975	2.824	13.5	19.0
431053	2006 <i>BW</i> ₁₁₉		6 23.4 105°58	1°4/23.4	17		335157	2004 <i>XU</i> ₇₃		6 23.4 201°56	0°7/23.5	18	
5 21	18 36.81	-27 28.7	1.831	2.699	13.4	21.4	5 21	18 35.45	-20 9.0	2.556	3.409	10.6	21.5
5 31	18 30.72	-27 28.7	1.765	2.706	9.9	21.2	5 31	18 29.27	-20 25.7	2.470	3.403	7.8	21.3
6 10	18 22.39	-27 25.1	1.723	2.713	6.0	21.0	6 10	18 21.42	-20 44.9	2.410	3.398	4.7	21.1
6 20	18 12.67	-27 16.0	1.707	2.720	2.1	20.8	6 20	18 12.45	-21 5.5	2.377	3.391	1.4	20.8
6 30	18 2.66	-27 0.7	1.717	2.726	3.2	20.9	6 30	18 3.09	-21 26.3	2.374	3.384	2.4	20.9
7 10	17 53.52	-26 40.1	1.754	2.733	7.2	21.1	7 10	17 54.18	-21 46.3	2.400	3.376	5.7	21.1
7 20	17 46.19	-26 16.3	1.816	2.739	10.9	21.4	7 20	17 46.42	-22 5.3	2.453	3.368	8.8	21.3
7 30	17 41.32	-25 51.9	1.900	2.746	14.1	21.6	7 30	17 40.43	-22 23.5	2.531	3.358	11.6	21.5
471669	2012 <i>TL</i> ₁₆₆		6 23.4 275°94	0°4/23.4	18		205630	2001 <i>VU</i> ₈₀		6 23.4 281°88	1°2/23.4	17	
5 21	18 35.60	-23 11.6	1.979	2.845	12.7	21.8	5 21	18 37.15	-21 53.2	1.361	2.244	16.3	20.7
5 31	18 30.05	-23 33.0	1.881	2.821	9.4	21.5	5 31	18 31.90	-21 34.3	1.277	2.225	12.2	20.4
6 10	18 22.21	-23 56.3	1.805	2.796	5.7	21.3	6 10	18 23.62	-21 15.9	1.213	2.205	7.4	20.1
6 20	18 12.70	-24 19.3	1.756	2.771	1.5	20.9	6 20	18 13.12	-20 57.2	1.172	2.186	2.3	19.7
6 30	18 2.45	-24 40.1	1.735	2.745	2.9	21.0	6 30	18 1.75	-20 38.3	1.156	2.166	4.0	19.8
7 10	17 52.61	-24 57.4	1.740	2.719	7.2	21.2	7 10	17 51.11	-20 20.3	1.164	2.147	9.4	20.0
7 20	17 44.22	-25 11.2	1.771	2.693	11.2	21.4	7 20	17 42.62	-20 5.0	1.194	2.127	14.5	20.2
7 30	17 38.13	-25 22.4	1.824	2.666	14.8	21.6	7 30	17 37.31	-19 54.3	1.244	2.107	19.0	20.5
23107	1999 <i>XA</i> ₂₄₂		6 23.4 174°67	2°1/23.3	18		193408	2000 <i>WB</i> ₃₈		6 23.4 301°91	1°9/23.6	18	
5 21	18 33.64	-30 26.5	2.770	3.623	9.9	19.7	5 21	18 33.99	-18 23.0	1.588	2.464	14.7	20.2
5 31	18 27.87	-30 42.7	2.694	3.625	7.4	19.6	5 31	18 29.32	-18 28.5	1.490	2.434	11.1	19.9
6 10	18 20.52	-30 55.0	2.642	3.626	4.7	19.4	6 10	18 22.03	-18 40.2	1.413	2.404	6.9	19.6
6 20	18 12.18	-31 1.5	2.619	3.627	2.4	19.3	6 20	18 12.72	-18 57.5	1.361	2.373	2.6	19.2
6 30	18 3.57	-31 1.1	2.624	3.628	3.0	19.3	6 30	18 2.47	-19 19.2	1.333	2.343	3.8	19.2
7 10	17 55.48	-30 54.0	2.657	3.628	5.6	19.5	7 10	17 52.63	-19 44.1	1.332	2.313	8.6	19.4
7 20	17 48.57	-30 41.3	2.718	3.628	8.2	19.6	7 20	17 44.43	-20 11.2	1.353	2.283	13.4	19.6
7 30	17 43.39	-30 24.7	2.802	3.628	10.6	19.8	7 30	17 38.93	-20 40.1	1.395	2.254	17.6	19.8
146957	2002 <i>FG</i> ₂₅		6 23.4 9°23	1°4/23.8	18		99486	2002 <i>CJ</i> ₁₇₁		6 23.4 170°84	1°4/23.3	18	
5 21	18 33.37	-16 12.6	2.071	2.932	12.4	19.3	5 21	18 39.30	-25 12.2	1.607	2.478	14.8	19.9
5 31	18 28.05	-17 1.3	1.997	2.933	9.2	19.1	5 31	18 32.97	-25 43.7	1.538	2.480	11.0	19.7
6 10	18 20.82	-17 58.3	1.946	2.934	5.7	18.8	6 10	18 23.96	-26 15.3	1.492	2.482	6.6	19.4
6 20	18 12.29	-19 1.1	1.922	2.935	2.1	18.6	6 20	18 13.15	-26 43.3	1.470	2.484	2.2	19.2
6 30	18 3.32	-20 6.8	1.927	2.936	2.9	18.7	6 30	18 1.80	-27 5.0	1.475	2.485	3.6	19.3
7 10	17 54.86	-21 12.4	1.959	2.938	6.6	18.9	7 10	17 51.32	-27 19.1	1.507	2.486	8.1	19.5
7 20	17 47.76	-22 15.6	2.017	2.940	10.0	19.1	7 20	17 42.87	-27 26.7	1.562	2.486	12.3	19.8
7 30	17 42.67	-23 15.0	2.099	2.942	13.1	19.3	7 30	17 37.29	-27 29.8	1.639	2.486	15.9	20.0
395690	2011 <i>YL</i> ₅₂		6 23.4 325°21	4°0/22.7	18		445343	2010 <i>LB</i> ₉₇		6 23.4 260°68	4°3/23.6	18	
5 21	18 34.63	-31 42.5	1.981	2.847	12.7	20.1	5 21	18 31.02	-10 35.4	2.370	3.217	11.5	21.5
5 31	18 29.38	-32 42.4	1.904	2.839	9.7	19.9	5 31	18 26.08	-10 14.0	2.286	3.207	9.0	21.3
6 10	18 21.80	-33 39.0	1.850	2.831	6.5	19.7	6 10	18 19.56	-10 0.3	2.226	3.197	6.4	21.2
6 20	18 12.58	-34 27.7	1.822	2.824	4.2	19.5	6 20	18 11.98	-9 55.6	2.192	3.187	4.5	21.0
6 30	18 2.74	-35 4.5	1.820	2.818	5.0	19.6	6 30	18 4.06	-10 0.3	2.185	3.177	4.8	21.0
7 10	17 53.49	-35 27.9	1.845	2.811	8.0	19.7	7 10	17 56.57	-10 14.2	2.206	3.167	7.2	21.1
7 20	17 45.87	-35 38.7	1.894	2.805	11.2	19.9	7 20	17 50.20	-10 36.3	2.251	3.157	9.9	21.3
7 30	17 40.71	-35 39.4	1.965	2.799	14.2	20.1	7 30	17 45.50	-11 5.2	2.320	3.147	12.5	21.5
276107	2002 <i>FE</i> ₃₄		6 23.4 25°30	5°1/24.2	17		475151	2005 <i>UF</i> ₃₇₄		6 23.4 243°90	4°1/23.0	16	
5 21	18 31.60	-11 16.3	1.287	2.166	17.2	19.6	5 21	18 31.96	-11 38.2	2.667	3.509	10.5	21.7
5 31	18 27.33	-11 17.2	1.237	2.178	13.2	19.4	5 31	18 26.59	-10 52.1	2.578	3.496	8.2	21.5
6 10	18 20.57	-11 32.9	1.208	2.190	9.0	19.2	6 10	18 19.79	-10 10.8	2.513	3.483	5.8	21.4
6 20	18 12.23	-12 3.6	1.200	2.204	5.5	19.1	6 20	18 12.03	-9 36.1	2.476	3.469	4.2	21.2
6 30	18 3.56	-12 47.5	1.216	2.219	5.9	19.1	6 30	18 3.98	-9 9.4	2.467	3.455	4.7	21.3
7 10	17 55.88	-13 41.4	1.256	2.234	9.5	19.4	7 10	17 56.32	-8 51.5	2.486	3.441	6.8	21.4
7 20	17 50.22	-14 41.5	1.318	2.251	13.4	19.6	7 20	17 49.67	-8 42.6	2.531	3.426	9.3	21.5
7 30	17 47.29	-15 44.0	1.400	2.268	17.0	19.9	7 30	17 44.56	-8 42.3	2.599	3.412	11.7	21.7
409293	2004 <i>SN</i> ₃₂		6 23.4 255°09	1°1/23.3	17		129429	4289 <i>T</i> ₃		6 23.4 207°65	1°9/23.6	18	
5 21	18 38.62	-24 30.7	1.521	2.396	15.3	21.4	5 21	18 31.40	-16 10.2	2.951	3.800	9.4	21.0
5 31	18 32.81	-24 57.0	1.437	2.382	11.4	21.1	5 31	18 26.09	-16 9.8	2.866	3.794	7.1	20.8
6 10	18 24.08	-25 24.7	1.376	2.368	6.9	20.8	6 10	18 19.45	-16 13.3	2.805	3.788	4.5	20.6
6 20	18 13.22	-25 50.3	1.339	2.353	2.1	20.4	6 20	18 11.95	-16 20.5	2.773	3.782	2.2	20.5
6 30	18 1.51	-26 10.7	1.327	2.338	3.7	20.5	6 30	18 4.18	-16 31.1	2.770	3.775	2.7	20.5
7 10	17 50.49	-26 24.5	1.342	2.322	8.7	20.8	7 10	17 56.77	-16 44.7	2.795	3.767	5.3	20.6
7 20	17 41.51	-26 32.4	1.379	2.306	13.4	21.0	7 20	17 50.29	-17 0.8	2.848	3.760	7.9	20.8
7 30	17 35.57	-26 36.4	1.437	2.290	17.5	21.2	7 30	17 45.22	-17 19.0	2.925	3.751	10.2	21.0
213041	1998 <i>HJ</i> ₂₂		6 23.4 57°04	4°9/23.2	17		373617	20					

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6 23.4

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
237818	2002 <i>CT</i> ₁₃₉		6 23.4 211°00		5°1/23.7 18		478144	2011 <i>UV</i> ₁₄₅		6 23.4 215°60		0°7/23.4 18	
5 21	18 34.39	- 7 45.8	2.359	3.191	12.1	21.3	5 21	18 33.48	-25 32.3	2.549	3.409	10.4	22.0
5 31	18 28.54	- 7 24.9	2.274	3.183	9.6	21.1	5 31	18 27.87	-25 36.0	2.467	3.404	7.7	21.8
6 10	18 21.02	- 7 13.8	2.213	3.174	7.1	21.0	6 10	18 20.62	-25 38.3	2.409	3.398	4.6	21.6
6 20	18 12.38	- 7 13.6	2.178	3.165	5.3	20.8	6 20	18 12.30	-25 37.9	2.379	3.393	1.3	21.3
6 30	18 3.36	- 7 25.1	2.171	3.155	5.6	20.8	6 30	18 3.67	-25 34.2	2.377	3.387	2.4	21.4
7 10	17 54.78	- 7 47.7	2.191	3.144	7.7	20.9	7 10	17 55.53	-25 27.3	2.404	3.381	5.6	21.6
7 20	17 47.36	- 8 20.0	2.237	3.133	10.4	21.1	7 20	17 48.60	-25 17.9	2.457	3.375	8.7	21.8
7 30	17 41.70	- 9 0.0	2.306	3.121	13.0	21.2	7 30	17 43.44	-25 7.4	2.534	3.368	11.4	22.0
203024	2000 <i>AL</i> ₂₁₂		6 23.4 201°13		2°3/23.4 17		479217	2013 <i>CK</i> ₁₆₃		6 23.4 5°98		5°5/23.0 18	
5 21	18 36.79	-30 39.5	2.487	3.339	10.9	21.7	5 21	18 35.91	-38 5.3	2.177	3.026	12.3	20.9
5 31	18 30.38	-30 51.2	2.404	3.335	8.2	21.5	5 31	18 30.18	-38 50.8	2.107	3.026	9.7	20.8
6 10	18 22.12	-30 58.1	2.347	3.330	5.2	21.3	6 10	18 22.21	-39 27.4	2.061	3.026	7.2	20.6
6 20	18 12.66	-30 58.1	2.317	3.325	2.6	21.1	6 20	18 12.75	-39 50.8	2.040	3.027	5.6	20.5
6 30	18 2.86	-30 50.0	2.315	3.320	3.3	21.2	6 30	18 2.85	-39 58.3	2.045	3.027	6.0	20.5
7 10	17 53.64	-30 34.2	2.342	3.313	6.2	21.3	7 10	17 53.68	-39 50.0	2.076	3.028	8.2	20.7
7 20	17 45.79	-30 12.3	2.395	3.307	9.2	21.5	7 20	17 46.21	-39 28.1	2.132	3.029	10.8	20.8
7 30	17 39.94	-29 46.9	2.472	3.299	11.8	21.7	7 30	17 41.15	-38 56.6	2.210	3.030	13.3	21.0
255175	2005 <i>UU</i> ₂₃₀		6 23.4 336°95		0°5/23.4 18		211919	2004 <i>TW</i> ₃₆		6 23.4 98°15		2°4/23.5 17	
5 21	18 31.79	-24 12.4	1.808	2.685	13.1	20.6	5 21	18 38.09	-18 31.9	1.393	2.270	16.4	21.2
5 31	18 27.23	-24 21.1	1.730	2.676	9.7	20.4	5 31	18 32.07	-18 18.0	1.336	2.280	12.2	21.0
6 10	18 20.49	-24 30.0	1.675	2.667	5.8	20.1	6 10	18 23.39	-18 8.9	1.300	2.291	7.5	20.7
6 20	18 12.27	-24 37.3	1.644	2.659	1.6	19.8	6 20	18 13.05	-18 4.6	1.289	2.301	3.0	20.5
6 30	18 3.58	-24 41.9	1.640	2.651	2.9	19.9	6 30	18 2.36	-18 4.6	1.302	2.311	4.2	20.6
7 10	17 55.52	-24 43.4	1.662	2.644	7.2	20.1	7 10	17 52.75	-18 8.9	1.340	2.321	8.8	20.9
7 20	17 49.06	-24 42.5	1.708	2.637	11.1	20.4	7 20	17 45.30	-18 17.3	1.402	2.330	13.1	21.1
7 30	17 44.94	-24 40.5	1.775	2.631	14.5	20.6	7 30	17 40.76	-18 29.6	1.483	2.340	16.8	21.4
504301	2007 <i>EK</i> ₁₃₂		6 23.4 81°82		7°2/23.9 17		141875	2002 <i>PQ</i> ₃₅		6 23.4 291°79		0°9/23.5 18	
5 21	18 34.01	- 6 1.0	1.681	2.527	15.5	21.4	5 21	18 35.64	-21 16.3	1.477	2.357	15.4	20.7
5 31	18 28.59	- 5 22.4	1.625	2.539	12.4	21.2	5 31	18 30.70	-21 15.3	1.387	2.334	11.6	20.4
6 10	18 21.13	- 4 58.6	1.590	2.550	9.4	21.1	6 10	18 22.91	-21 17.1	1.318	2.311	7.0	20.0
6 20	18 12.41	- 4 51.9	1.579	2.561	7.4	21.0	6 20	18 13.02	-21 20.4	1.273	2.287	2.1	19.7
6 30	18 3.42	- 5 3.2	1.593	2.572	7.7	21.0	6 30	18 2.23	-21 24.1	1.252	2.263	3.6	19.7
7 10	17 55.22	- 5 31.4	1.631	2.584	9.9	21.2	7 10	17 52.01	-21 27.9	1.257	2.240	8.9	19.9
7 20	17 48.68	- 6 13.5	1.693	2.595	12.8	21.4	7 20	17 43.70	-21 32.2	1.284	2.216	13.8	20.2
7 30	17 44.40	- 7 5.9	1.775	2.606	15.6	21.6	7 30	17 38.33	-21 38.0	1.331	2.193	18.1	20.4
428315	2007 <i>GG</i> ₂₂		6 23.4 43°53		6°0/23.3 17		504131	2006 <i>RR</i> ₈₉		6 23.4 278°28		1°0/23.5 17	
5 21	18 33.65	-11 19.1	1.540	2.406	15.6	21.0	5 21	18 37.04	-21 19.7	1.623	2.496	14.6	22.0
5 31	18 28.50	-10 22.6	1.483	2.414	12.2	20.8	5 31	18 31.54	-21 13.7	1.527	2.470	11.0	21.7
6 10	18 21.15	- 9 36.1	1.448	2.423	8.6	20.6	6 10	18 23.34	-21 9.3	1.453	2.444	6.7	21.4
6 20	18 12.42	- 9 2.3	1.436	2.432	6.2	20.5	6 20	18 13.13	-21 5.8	1.403	2.418	2.0	21.0
6 30	18 3.42	- 8 43.6	1.449	2.441	6.8	20.6	6 30	18 2.04	-21 2.2	1.380	2.391	3.5	21.0
7 10	17 55.30	- 8 40.1	1.486	2.450	9.7	20.7	7 10	17 51.45	-20 58.7	1.383	2.363	8.5	21.3
7 20	17 48.97	- 8 50.7	1.546	2.460	13.1	21.0	7 20	17 42.63	-20 56.1	1.409	2.336	13.2	21.5
7 30	17 45.08	- 9 12.9	1.627	2.470	16.2	21.2	7 30	17 36.57	-20 55.6	1.456	2.308	17.3	21.6
50495	2000 <i>DU</i> ₉₃		6 23.4 336°52		4°8/24.1 18		203043	2000 <i>DR</i> ₄₈		6 23.4 56°60		1°7/23.4 17	
5 21	18 29.90	-11 41.2	1.436	2.313	15.9	17.1	5 21	18 35.36	-27 43.1	1.866	2.736	13.2	20.5
5 31	18 26.23	-11 41.7	1.358	2.298	12.4	16.8	5 31	18 29.72	-27 51.8	1.798	2.740	9.7	20.3
6 10	18 20.11	-11 55.9	1.300	2.283	8.5	16.5	6 10	18 21.89	-27 57.2	1.754	2.744	5.9	20.1
6 20	18 12.23	-12 24.5	1.264	2.269	5.2	16.3	6 20	18 12.66	-27 57.1	1.735	2.748	2.2	19.8
6 30	18 3.67	-13 7.1	1.253	2.256	5.7	16.3	6 30	18 3.09	-27 50.5	1.743	2.752	3.3	19.9
7 10	17 55.71	-14 1.1	1.265	2.244	9.4	16.5	7 10	17 54.32	-27 37.8	1.778	2.757	7.1	20.2
7 20	17 49.49	-15 3.0	1.300	2.233	13.6	16.7	7 20	17 47.28	-27 20.7	1.837	2.761	10.8	20.4
7 30	17 45.91	-16 9.4	1.355	2.223	17.4	16.9	7 30	17 42.64	-27 1.7	1.919	2.766	13.9	20.6
288847	2004 <i>RT</i> ₂₀₄		6 23.4 17°16		2°7/23.5 18		71412	2000 <i>AF</i> ₁₈₁		6 23.4 225°38		4°3/23.6 18	
5 21	18 34.00	-31 2.6	1.875	2.745	13.1	19.8	5 21	18 33.33	-10 51.5	2.295	3.139	11.9	19.8
5 31	18 28.72	-31 4.0	1.809	2.749	9.8	19.6	5 31	18 27.85	-10 31.8	2.210	3.130	9.3	19.6
6 10	18 21.27	-30 59.1	1.766	2.753	6.2	19.4	6 10	18 20.66	-10 20.1	2.149	3.121	6.5	19.4
6 20	18 12.46	-30 45.7	1.749	2.758	3.0	19.2	6 20	18 12.34	-10 17.2	2.114	3.111	4.5	19.3
6 30	18 3.37	-30 23.2	1.757	2.764	3.8	19.3	6 30	18 3.64	-10 23.8	2.107	3.100	4.9	19.3
7 10	17 55.13	-29 52.9	1.792	2.769	7.2	19.5	7 10	17 55.39	-10 39.4	2.127	3.090	7.3	19.4
7 20	17 48.63	-29 17.4	1.852	2.776	10.7	19.7	7 20	17 48.32	-11 3.0	2.173	3.078	10.2	19.6
7 30	17 44.53	-28 39.8	1.933	2.783	13.8	19.9	7 30	17 43.05	-11 33.2	2.242	3.067	13.0	19.7
420892	2013 <i>LF</i> ₂₁		6 23.4 27°83		2°5/23.9 17		183250	2002 <i>TN</i> ₁₃₁		6 23.4 264°48		4°3/23.4 17	
5 21	18 35.01	-15 18.8	1.132	2.021	18.4	20.1	5 21	18 39.27	-33 3.9	1.629	2.497	14.9	20.3
5 31	18 30.36	-15 57.8	1.078	2.027	13.8	19.9	5 31	18 33.25	-33 28.9	1.549	2.485	11.4	20.0
6 10	18 22.66	-16 50.7	1.043	2.034	8.6	19.6	6 10	18 24.32	-33 46.3	1.491	2.473	7.6	19.8
6 20	18 12.88	-17 54.7	1.029	2.042	3.4	19.3	6 20	18 13.36	-33 51.5	1.457	2.461	4.6	19.6
6 30	18 2.53	-19 4.9	1.040	2.050	4.4	19.4	6 30	18 1.71	-33 41.6	1.448	2.449	5.4	19.6
7 10	17 53.26	-20 16.4	1.073	2.059	9.6	19.8	7 10	17 50.91	-33 17.0	1.465	2.437	9.0	19.8
7 20	17 46.40	-21 25.2	1.129	2.069	14.5	20.1	7 20	17 42.26	-32 41.0	1.505	2.425	13.0	20.0
7 30	17 42.84	-22 28.9	1.203	2.079	18.7	20.3	7 30	17 36.69	-31 58.8	1.566	2.412	16.6	20.2
384442	2010 <i>AL</i> ₂₅		6 23.4 165°12		0°6/23.5 17		2						

EPHEMERIDES

6 23.4

6 23.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
63347	2001 <i>FA</i> ₉₄		6 23.4 247°02	3°5/23.9	18		56289	1999 <i>LM</i> ₂₆		6 23.5 13°46	3°9/22.0	18	
5 21	18 30.86	-11 15.8	2.486	3.333	11.1	19.5	5 21	18 42.56	-26 39.6	0.997	1.891	19.9	16.9
5 31	18 25.92	-11 18.1	2.406	3.329	8.5	19.3	5 31	18 35.87	-23 42.4	0.941	1.895	14.8	16.6
6 10	18 19.47	-11 28.5	2.351	3.325	5.8	19.1	6 10	18 25.74	-20 27.3	0.905	1.899	9.0	16.3
6 20	18 12.03	-11 47.1	2.321	3.321	3.7	19.0	6 20	18 13.65	-17 4.8	0.894	1.906	4.1	16.0
6 30	18 4.28	-12 13.6	2.320	3.317	4.1	19.0	6 30	18 1.54	-13 50.5	0.908	1.913	6.6	16.2
7 10	17 56.95	-12 46.8	2.346	3.313	6.4	19.1	7 10	17 51.28	-10 59.9	0.947	1.922	12.2	16.5
7 20	17 50.69	-13 25.3	2.398	3.309	9.2	19.3	7 20	17 44.07	-8 42.3	1.007	1.932	17.3	16.9
7 30	17 46.03	-14 7.6	2.474	3.305	11.7	19.5	7 30	17 40.55	-6 59.9	1.085	1.944	21.5	17.2
475995	2007 <i>RR</i> ₈		6 23.4 293°56	2°3/23.5	18		243822	2000 <i>ST</i> ₃₅₇		6 23.5 292°41	1°4/23.7	18	
5 21	18 33.43	-17 51.2	1.815	2.684	13.5	21.5	5 21	18 35.66	-17 44.7	1.701	2.569	14.3	20.4
5 31	18 28.50	-17 39.8	1.722	2.662	10.2	21.3	5 31	18 30.52	-18 16.4	1.599	2.540	10.8	20.1
6 10	18 21.34	-17 32.7	1.652	2.640	6.4	21.0	6 10	18 22.77	-18 57.3	1.521	2.510	6.7	19.8
6 20	18 12.58	-17 30.1	1.607	2.618	2.8	20.7	6 20	18 13.03	-19 45.5	1.467	2.480	2.3	19.5
6 30	18 3.18	-17 31.8	1.588	2.596	3.8	20.7	6 30	18 2.29	-20 38.3	1.440	2.450	3.5	19.5
7 10	17 54.26	-17 37.9	1.596	2.574	7.8	20.9	7 10	17 51.85	-21 32.7	1.439	2.419	8.2	19.7
7 20	17 46.83	-17 48.1	1.627	2.552	11.9	21.1	7 20	17 42.95	-22 26.4	1.462	2.389	12.8	19.9
7 30	17 41.71	-18 2.3	1.680	2.530	15.5	21.3	7 30	17 36.63	-23 18.1	1.507	2.358	16.9	20.1
92175	1999 <i>XP</i> ₁₉₁		6 23.4 283°31	5°0/21.9	18		87526	2000 <i>QK</i> ₁₉₈		6 23.5 329°85	1°0/23.4	18	
5 21	18 37.86	-34 30.9	2.347	3.196	11.6	18.7	5 21	18 32.75	-25 12.2	1.789	2.666	13.3	19.6
5 31	18 31.75	-36 0.5	2.260	3.182	9.0	18.5	5 31	18 28.03	-25 28.5	1.711	2.656	9.9	19.3
6 10	18 23.31	-37 27.1	2.198	3.168	6.5	18.3	6 10	18 21.05	-25 44.4	1.654	2.646	5.9	19.1
6 20	18 13.12	-38 44.8	2.164	3.154	5.0	18.2	6 20	18 12.52	-25 58.0	1.623	2.637	1.8	18.8
6 30	18 2.10	-39 48.8	2.157	3.140	5.8	18.2	6 30	18 3.47	-26 7.3	1.618	2.629	3.1	18.9
7 10	17 51.41	-40 36.5	2.179	3.125	8.2	18.3	7 10	17 55.06	-26 11.9	1.639	2.621	7.3	19.1
7 20	17 42.10	-41 7.8	2.226	3.111	10.9	18.5	7 20	17 48.29	-26 12.5	1.685	2.613	11.3	19.3
7 30	17 35.09	-41 25.3	2.295	3.097	13.4	18.6	7 30	17 43.94	-26 10.6	1.751	2.606	14.7	19.5
43532	2001 <i>DX</i> ₇₂		6 23.4 215°73	0°1/23.4	18		355589	2008 <i>CY</i> ₁₃₅		6 23.5 332°08	7°4/24.5	16	
5 21	18 32.35	-23 40.8	2.456	3.319	10.6	19.6	5 21	18 30.54	-2 46.7	1.976	2.807	14.1	20.7
5 31	18 27.07	-23 41.7	2.379	3.317	7.8	19.4	5 31	18 26.01	-2 27.2	1.901	2.801	11.6	20.5
6 10	18 20.16	-23 42.4	2.326	3.316	4.6	19.2	6 10	18 19.68	-2 23.4	1.847	2.795	9.2	20.4
6 20	18 12.22	-23 41.8	2.300	3.314	1.2	19.0	6 20	18 12.14	-2 37.6	1.817	2.789	7.6	20.3
6 30	18 3.98	-23 39.5	2.302	3.313	2.3	19.1	6 30	18 4.22	-3 10.2	1.813	2.784	7.7	20.3
7 10	17 56.26	-23 35.6	2.332	3.311	5.7	19.3	7 10	17 56.80	-3 59.7	1.833	2.779	9.5	20.4
7 20	17 49.76	-23 30.5	2.389	3.309	8.8	19.5	7 20	17 50.68	-5 3.1	1.877	2.774	12.0	20.5
7 30	17 45.02	-23 25.3	2.469	3.308	11.5	19.7	7 30	17 46.48	-6 16.4	1.943	2.770	14.6	20.7
394322	2006 <i>WB</i> ₁₀₃		6 23.4 239°54	2°3/23.1	18		392447	2010 <i>UN</i> ₁₁		6 23.5 269°66	0°7/23.4	18	
5 21	18 34.82	-28 35.3	2.339	3.199	11.2	21.1	5 21	18 33.08	-24 58.6	2.456	3.318	10.7	21.6
5 31	18 29.15	-29 15.4	2.257	3.192	8.4	20.9	5 31	18 27.77	-25 10.4	2.363	3.301	7.9	21.4
6 10	18 21.54	-29 53.7	2.199	3.185	5.3	20.7	6 10	18 20.70	-25 21.8	2.294	3.284	4.7	21.2
6 20	18 12.61	-30 27.2	2.169	3.178	2.6	20.5	6 20	18 12.42	-25 31.1	2.252	3.266	1.4	20.9
6 30	18 3.19	-30 53.5	2.166	3.171	3.4	20.5	6 30	18 3.69	-25 37.2	2.239	3.249	2.5	21.0
7 10	17 54.27	-31 11.5	2.191	3.163	6.5	20.7	7 10	17 55.37	-25 39.9	2.253	3.231	5.9	21.2
7 20	17 46.68	-31 21.7	2.242	3.155	9.6	20.9	7 20	17 48.25	-25 39.6	2.294	3.213	9.2	21.3
7 30	17 41.12	-31 25.6	2.316	3.147	12.4	21.1	7 30	17 42.94	-25 37.4	2.358	3.195	12.0	21.5
39199	2000 <i>XN</i> ₇		6 23.4 98°80	1°9/23.8	18		367909	2012 <i>BU</i> ₅₈		6 23.5 355°57	0°6/23.5	17	
5 21	18 37.33	-31 39.5	2.349	3.203	11.4	18.7	5 21	18 33.94	-20 16.0	1.158	2.053	17.6	20.1
5 31	18 30.65	-31 11.5	2.279	3.211	8.5	18.5	5 31	18 29.75	-20 45.6	1.095	2.050	13.1	19.8
6 10	18 22.20	-30 36.2	2.234	3.218	5.3	18.3	6 10	18 22.44	-21 22.6	1.052	2.047	7.9	19.5
6 20	18 12.72	-29 52.7	2.216	3.226	2.4	18.1	6 20	18 12.94	-22 3.9	1.031	2.045	2.2	19.2
6 30	18 3.12	-29 1.7	2.227	3.234	3.0	18.2	6 30	18 2.72	-22 45.8	1.033	2.045	3.9	19.3
7 10	17 54.32	-28 5.5	2.266	3.242	6.1	18.4	7 10	17 53.49	-23 25.4	1.058	2.045	9.5	19.6
7 20	17 47.08	-27 7.1	2.333	3.249	9.1	18.6	7 20	17 46.64	-24 1.1	1.104	2.045	14.6	19.9
7 30	17 41.90	-26 9.8	2.423	3.257	11.8	18.8	7 30	17 43.14	-24 33.1	1.168	2.047	18.9	20.2
410708	2009 <i>AA</i> ₄₄		6 23.4 131°72	0°1/23.4	17		18714	1998 <i>HQ</i> ₁₁₄		6 23.5 20°93	0°4/23.4	18	
5 21	18 39.43	-23 34.2	1.510	2.385	15.5	21.7	5 21	18 33.48	-21 49.7	1.887	2.759	13.0	18.1
5 31	18 33.02	-23 33.3	1.448	2.392	11.4	21.5	5 31	18 28.37	-22 34.5	1.819	2.762	9.5	17.9
6 10	18 23.98	-23 32.3	1.408	2.400	6.8	21.3	6 10	18 21.16	-23 22.9	1.775	2.766	5.6	17.7
6 20	18 13.24	-23 29.4	1.392	2.407	1.8	20.9	6 20	18 12.54	-24 12.0	1.756	2.770	1.5	17.4
6 30	18 2.12	-23 23.6	1.403	2.414	3.3	21.1	6 30	18 3.49	-24 58.9	1.764	2.775	2.8	17.5
7 10	17 52.02	-23 15.4	1.439	2.420	8.2	21.4	7 10	17 55.07	-25 41.3	1.799	2.780	6.9	17.8
7 20	17 44.07	-23 6.3	1.499	2.426	12.5	21.6	7 20	17 48.20	-26 18.3	1.860	2.785	10.6	18.0
7 30	17 39.00	-22 58.0	1.580	2.432	16.2	21.9	7 30	17 43.58	-26 50.1	1.942	2.791	13.8	18.3
75542	1999 <i>XN</i> ₂₃₇		6 23.4 122°02	0°4/23.4	18		174584	2003 <i>QH</i> ₃₄		6 23.5 245°95	3°9/23.4	17	
5 21	18 38.45	-23 34.3	1.700	2.570	14.2	19.7	5 21	18 41.21	-32 36.1	1.714	2.576	14.5	20.5
5 31	18 32.07	-23 49.2	1.639	2.581	10.5	19.5	5 31	18 34.63	-32 55.8	1.628	2.561	11.1	20.3
6 10	18 23.31	-24 4.6	1.601	2.592	6.2	19.3	6 10	18 25.15	-33 8.2	1.564	2.546	7.4	20.0
6 20	18 13.05	-24 18.2	1.587	2.602	1.6	19.0	6 20	18 13.64	-33 8.9	1.524	2.530	4.2	19.8
6 30	18 2.46	-24 28.3	1.601	2.612	3.1	19.1	6 30	18 1.39	-32 55.1	1.511	2.514	5.0	19.8
7 10	17 52.76	-24 34.5	1.642	2.622	7.5	19.4	7 10	17 49.92	-32 27.3	1.525	2.497	8.8	20.0
7 20	17 44.98	-24 37.7	1.707	2.631	11.4	19.7	7 20	17 40.54	-31 48.9	1.562	2.479	12.8	20.2
7 30	17 39.80	-24 39.3	1.793	2.640	14.8	19.9	7 30	17 34.17	-31 4.9	1.621	2.461	16.4	20.4
80746	2000 <i>CL</i> ₄₁		6 23.4 262°29	0°3/23.5	18		101490						

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6 23.5

6 23.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
343089	2009 <i>DR</i> ₁₇		6 23.5 250°99	0°6/23.5	18		503087	2015 <i>FT</i> ₂₉₁		6 23.5 95°97	1°6/23.7	17	
5 21	18 36.74	-26 40.4	1.978	2.843	12.7	20.6	5 21	18 35.82	-17 31.4	1.742	2.609	14.1	21.3
5 31	18 30.70	-26 18.1	1.896	2.835	9.4	20.4	5 31	18 30.12	-17 56.3	1.678	2.617	10.5	21.1
6 10	18 22.51	-25 51.5	1.836	2.826	5.7	20.1	6 10	18 22.21	-18 27.9	1.636	2.625	6.4	20.9
6 20	18 12.91	-25 19.9	1.804	2.818	1.6	19.8	6 20	18 12.86	-19 4.4	1.620	2.632	2.3	20.6
6 30	18 2.92	-24 43.4	1.798	2.809	2.8	19.9	6 30	18 3.11	-19 43.6	1.630	2.640	3.3	20.7
7 10	17 53.64	-24 3.9	1.821	2.800	6.9	20.2	7 10	17 54.11	-20 23.4	1.668	2.648	7.4	21.0
7 20	17 45.99	-23 23.7	1.868	2.791	10.7	20.4	7 20	17 46.80	-21 2.3	1.730	2.655	11.2	21.2
7 30	17 40.67	-22 45.6	1.939	2.782	14.0	20.6	7 30	17 41.90	-21 39.7	1.814	2.663	14.6	21.4
107051	2001 <i>AD</i>		6 23.5 161°27	0°7/23.4	17		58299	1994 <i>PH</i> ₃		6 23.5 214°56	3°6/23.4	18	
5 21	18 39.70	-24 45.6	1.934	2.795	13.1	21.7	5 21	18 36.09	-34 49.5	2.515	3.363	10.9	19.0
5 31	18 32.83	-24 58.7	1.865	2.802	9.7	21.5	5 31	18 29.98	-35 6.6	2.435	3.359	8.4	18.8
6 10	18 23.74	-25 11.0	1.819	2.808	5.8	21.3	6 10	18 21.99	-35 16.6	2.379	3.354	5.7	18.7
6 20	18 13.22	-25 20.2	1.800	2.814	1.6	21.0	6 20	18 12.79	-35 17.0	2.350	3.349	3.8	18.5
6 30	18 2.34	-25 24.9	1.809	2.819	2.9	21.1	6 30	18 3.26	-35 6.3	2.349	3.344	4.2	18.6
7 10	17 52.24	-25 25.0	1.845	2.823	7.0	21.4	7 10	17 54.32	-34 45.1	2.375	3.339	6.6	18.7
7 20	17 43.88	-25 21.5	1.907	2.826	10.7	21.6	7 20	17 46.81	-34 15.3	2.427	3.333	9.3	18.9
7 30	17 37.95	-25 16.4	1.992	2.829	13.9	21.8	7 30	17 41.32	-33 40.0	2.503	3.327	11.8	19.0
213811	2003 <i>MA</i> ₄		6 23.5 301°88	2°5/23.4	18		387925	2005 <i>BU</i> ₂₇		6 23.5 115°54	1°9/23.7	18	
5 21	18 35.01	-19 47.7	1.304	2.191	16.6	19.4	5 21	18 35.07	-16 42.0	2.097	2.955	12.4	20.8
5 31	18 30.44	-19 17.7	1.220	2.170	12.6	19.1	5 31	18 29.19	-16 55.2	2.034	2.968	9.2	20.6
6 10	18 22.88	-18 49.6	1.156	2.149	7.8	18.7	6 10	18 21.49	-17 14.0	1.994	2.980	5.7	20.4
6 20	18 13.10	-18 24.0	1.115	2.128	3.1	18.4	6 20	18 12.66	-17 37.3	1.981	2.992	2.4	20.2
6 30	18 2.44	-18 2.1	1.098	2.108	4.6	18.4	6 30	18 3.55	-18 4.0	1.996	3.004	3.1	20.3
7 10	17 52.50	-17 45.3	1.105	2.087	9.8	18.7	7 10	17 55.10	-18 32.7	2.039	3.016	6.5	20.5
7 20	17 44.66	-17 34.9	1.133	2.068	14.9	18.9	7 20	17 48.07	-19 2.5	2.107	3.027	9.8	20.8
7 30	17 39.98	-17 31.8	1.179	2.048	19.4	19.1	7 30	17 43.04	-19 32.6	2.199	3.038	12.7	21.0
477218	2009 <i>KG</i> ₁₆		6 23.5 346°30	1°5/23.7	17		403196	2008 <i>PL</i> ₉		6 23.5 74°68	4°3/24.3	18	
5 21	18 32.12	-18 11.8	1.938	2.807	12.8	21.3	5 21	18 30.46	-8 9.8	2.540	3.378	11.1	20.3
5 31	18 27.30	-18 27.0	1.863	2.804	9.5	21.1	5 31	18 25.56	-8 12.2	2.470	3.383	8.7	20.1
6 10	18 20.51	-18 47.6	1.812	2.801	5.8	20.9	6 10	18 19.27	-8 24.4	2.424	3.389	6.3	20.0
6 20	18 12.40	-19 12.5	1.786	2.798	2.1	20.6	6 20	18 12.08	-8 46.8	2.403	3.395	4.5	19.9
6 30	18 3.87	-19 40.2	1.786	2.796	3.0	20.7	6 30	18 4.64	-9 18.9	2.411	3.400	4.7	19.9
7 10	17 55.92	-20 9.4	1.814	2.794	6.9	20.9	7 10	17 57.66	-9 59.2	2.446	3.406	6.6	20.0
7 20	17 49.40	-20 39.0	1.867	2.793	10.5	21.2	7 20	17 51.73	-10 46.1	2.507	3.412	9.1	20.2
7 30	17 44.99	-21 8.6	1.941	2.792	13.7	21.4	7 30	17 47.33	-11 37.3	2.591	3.418	11.4	20.3
123453	2000 <i>WF</i> ₁₃₅		6 23.5 284°82	5°8/22.1	18		429406	2010 <i>TK</i> ₉₅		6 23.5 158°57	9°4/22.7	15	
5 21	18 39.07	-34 9.4	1.779	2.640	14.1	18.8	5 21	18 50.84	-49 57.0	2.245	3.036	13.9	23.1
5 31	18 33.32	-35 32.7	1.690	2.620	11.0	18.5	5 31	18 41.75	-51 15.1	2.186	3.045	12.0	22.9
6 10	18 24.60	-36 52.9	1.625	2.600	7.9	18.3	6 10	18 29.40	-52 16.2	2.150	3.054	10.3	22.8
6 20	18 13.59	-38 2.9	1.585	2.579	5.9	18.1	6 20	18 14.81	-52 53.0	2.137	3.061	9.5	22.8
6 30	18 1.49	-38 56.2	1.571	2.559	6.8	18.1	6 30	17 59.57	-53 1.2	2.149	3.068	9.7	22.8
7 10	17 49.84	-39 29.7	1.582	2.538	9.9	18.3	7 10	17 45.47	-52 41.3	2.187	3.074	11.0	22.9
7 20	17 40.09	-39 44.1	1.617	2.517	13.4	18.4	7 20	17 33.94	-51 58.3	2.247	3.079	12.7	23.1
7 30	17 33.37	-39 43.3	1.672	2.497	16.7	18.6	7 30	17 25.89	-50 59.5	2.328	3.083	14.5	23.2
297625	2001 <i>TC</i> ₆₉		6 23.5 311°21	5°2/23.4	17		75248	1999 <i>XX</i>		6 23.5 223°87	1°5/23.4	18	
5 21	18 31.79	-10 17.7	1.989	2.842	13.2	20.4	5 21	18 38.72	-26 16.2	1.856	2.721	13.4	20.0
5 31	18 26.91	-9 37.6	1.914	2.837	10.3	20.2	5 31	18 32.45	-26 38.1	1.774	2.713	10.0	19.8
6 10	18 20.21	-9 6.2	1.862	2.833	7.4	20.0	6 10	18 23.73	-26 58.7	1.714	2.703	6.1	19.5
6 20	18 12.31	-8 45.4	1.835	2.828	5.4	19.9	6 20	18 13.32	-27 15.3	1.681	2.694	2.1	19.2
6 30	18 4.07	-8 36.6	1.834	2.823	5.9	19.9	6 30	18 2.31	-27 25.5	1.674	2.684	3.3	19.3
7 10	17 56.38	-8 40.1	1.859	2.819	8.4	20.1	7 10	17 51.94	-27 28.8	1.695	2.673	7.5	19.5
7 20	17 50.04	-8 54.9	1.908	2.815	11.3	20.2	7 20	17 43.32	-27 26.3	1.741	2.661	11.5	19.7
7 30	17 45.67	-9 19.2	1.978	2.811	14.2	20.4	7 30	17 37.25	-27 20.2	1.809	2.650	14.9	19.9
97838	2000 <i>PC</i> ₁₈		6 23.5 211°33	2°0/23.7	18		341498	2007 <i>TG</i> ₃₉₃		6 23.5 355°73	4°4/23.3	17	
5 21	18 37.45	-17 40.5	1.501	2.373	15.6	19.1	5 21	18 36.83	-33 27.0	1.761	2.627	14.0	20.6
5 31	18 31.73	-17 50.5	1.429	2.371	11.7	18.9	5 31	18 31.20	-34 2.5	1.692	2.626	10.7	20.4
6 10	18 23.37	-18 7.5	1.379	2.368	7.2	18.6	6 10	18 23.02	-34 30.8	1.645	2.625	7.3	20.2
6 20	18 13.20	-18 30.4	1.353	2.365	2.8	18.3	6 20	18 13.12	-34 47.8	1.622	2.625	4.6	20.0
6 30	18 2.42	-18 57.3	1.353	2.362	3.9	18.4	6 30	18 2.73	-34 50.7	1.626	2.625	5.3	20.1
7 10	17 52.44	-19 26.6	1.378	2.359	8.5	18.6	7 10	17 53.19	-34 39.5	1.655	2.625	8.4	20.3
7 20	17 44.40	-19 57.2	1.427	2.355	13.0	18.9	7 20	17 45.62	-34 16.9	1.708	2.625	11.9	20.5
7 30	17 39.19	-20 28.4	1.496	2.351	16.8	19.1	7 30	17 40.79	-33 47.0	1.782	2.625	15.0	20.7
184848	2005 <i>UH</i> ₄₉		6 23.5 2°95	4°3/23.0	17		316209	2010 <i>MD</i> ₉₄		6 23.5 276°98	1°9/23.4	18	
5 21	18 32.33	-13 31.4	2.100	2.957	12.4	19.4	5 21	18 34.20	-29 2.4	2.319	3.180	11.2	21.4
5 31	18 27.17	-12 35.6	2.028	2.957	9.5	19.2	5 31	18 28.74	-29 12.3	2.228	3.164	8.4	21.2
6 10	18 20.29	-11 44.9	1.980	2.957	6.6	19.0	6 10	18 21.37	-29 18.5	2.162	3.148	5.2	21.0
6 20	18 12.33	-11 1.4	1.958	2.957	4.5	18.9	6 20	18 12.68	-29 19.2	2.121	3.132	2.3	20.8
6 30	18 4.11	-10 27.1	1.963	2.957	5.1	18.9	6 30	18 3.54	-29 13.1	2.109	3.116	3.1	20.8
7 10	17 56.49	-10 3.2	1.995	2.958	7.7	19.1	7 10	17 54.90	-29 0.4	2.124	3.100	6.4	21.0
7 20	17 50.20	-9 49.8	2.052	2.959	10.7	19.3	7 20	17 47.60	-28 42.3	2.165	3.084	9.7	21.2
7 30	17 45.80	-9 46.5	2.130	2.960	13.4	19.5	7 30	17 42.32	-28 21.0	2.229	3.067	12.6	21.3
507146	2009 <i>WV</i> ₁₇₉		6 23.5 321°80	0°6/23.5	17		329787	2004 <i>PS</i> _{20</}					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
248092	2004 <i>RL</i> ₅₇		6 23.5 345°78	3°1/23.2	18		169504	2002 <i>CZ</i> ₂₄₁		6 23.5 38°44	4°9/23.6	17	
5 21	18 33.32	-30 11.6	1.906	2.777	12.9	19.6	5 21	18 34.90	-14 25.9	1.162	2.048	18.2	18.7
5 31	18 28.45	-30 46.8	1.832	2.772	9.7	19.4	5 31	18 30.07	-13 51.4	1.112	2.058	13.9	18.5
6 10	18 21.33	-31 18.4	1.781	2.767	6.2	19.1	6 10	18 22.42	-13 27.2	1.082	2.069	9.2	18.3
6 20	18 12.69	-31 43.0	1.755	2.763	3.4	19.0	6 20	18 12.99	-13 15.2	1.074	2.080	5.4	18.1
6 30	18 3.56	-31 58.0	1.755	2.759	4.2	19.0	6 30	18 3.22	-13 16.1	1.089	2.092	6.1	18.2
7 10	17 55.09	-32 2.8	1.782	2.756	7.5	19.2	7 10	17 54.63	-13 29.3	1.126	2.105	10.2	18.4
7 20	17 48.27	-31 58.6	1.832	2.753	11.0	19.4	7 20	17 48.35	-13 52.7	1.185	2.118	14.6	18.7
7 30	17 43.85	-31 47.9	1.904	2.751	14.1	19.6	7 30	17 45.13	-14 23.9	1.262	2.131	18.4	19.0
63816	2001 <i>RC</i> ₄₈		6 23.5 19°52	0°1/23.5	18		475442	2006 <i>RQ</i> ₂₁		6 23.5 217°71	1°0/23.6	18	
5 21	18 33.62	-23 4.8	1.890	2.762	12.9	18.5	5 21	18 33.52	-20 4.9	2.296	3.157	11.3	21.7
5 31	18 28.43	-23 5.4	1.820	2.763	9.5	18.3	5 31	18 28.09	-20 6.8	2.216	3.153	8.4	21.5
6 10	18 21.20	-23 6.4	1.774	2.765	5.7	18.1	6 10	18 20.91	-20 11.1	2.160	3.149	5.1	21.3
6 20	18 12.63	-23 6.7	1.753	2.767	1.5	17.8	6 20	18 12.59	-20 17.1	2.130	3.144	1.7	21.0
6 30	18 3.72	-23 5.5	1.759	2.770	2.8	17.9	6 30	18 3.90	-20 24.1	2.129	3.139	2.6	21.1
7 10	17 55.52	-23 2.9	1.791	2.772	6.8	18.2	7 10	17 55.73	-20 31.8	2.156	3.134	6.1	21.3
7 20	17 48.89	-22 59.6	1.848	2.775	10.6	18.4	7 20	17 48.81	-20 40.1	2.208	3.129	9.4	21.5
7 30	17 44.50	-22 56.6	1.928	2.778	13.8	18.6	7 30	17 43.76	-20 49.4	2.284	3.123	12.3	21.7
431125	2006 <i>KM</i> ₁₃		6 23.5 133°02	4°1/24.0	18		181437	2006 <i>SB</i> ₃₄₉		6 23.5 217°40	0°1/23.5	18	
5 21	18 34.07	-11 15.3	2.015	2.866	13.1	20.9	5 21	18 33.89	-23 15.2	2.416	3.276	10.9	21.8
5 31	18 28.54	-11 13.3	1.947	2.872	10.1	20.7	5 31	18 28.32	-23 19.7	2.334	3.271	8.0	21.6
6 10	18 21.17	-11 21.0	1.902	2.878	6.9	20.5	6 10	18 21.04	-23 24.5	2.276	3.266	4.8	21.4
6 20	18 12.62	-11 38.6	1.883	2.883	4.4	20.4	6 20	18 12.63	-23 28.2	2.245	3.260	1.3	21.1
6 30	18 3.75	-12 5.5	1.890	2.888	4.7	20.4	6 30	18 3.87	-23 30.3	2.243	3.254	2.3	21.2
7 10	17 55.49	-12 40.4	1.925	2.894	7.5	20.6	7 10	17 55.60	-23 30.5	2.269	3.247	5.8	21.4
7 20	17 48.62	-13 21.2	1.985	2.898	10.6	20.8	7 20	17 48.58	-23 29.4	2.321	3.241	9.0	21.6
7 30	17 43.77	-14 6.1	2.067	2.903	13.5	21.0	7 30	17 43.38	-23 27.9	2.397	3.234	11.8	21.8
215102	1995 <i>OC</i> ₇		6 23.5 295°50	2°6/23.7	17		201744	2003 <i>UB</i> ₂₆₆		6 23.5 4°82	6°0/22.8	18	
5 21	18 33.76	-16 25.4	1.685	2.555	14.3	20.7	5 21	18 36.01	-34 30.0	1.495	2.370	15.5	19.2
5 31	18 28.86	-16 25.3	1.603	2.543	10.8	20.4	5 31	18 31.10	-35 36.0	1.433	2.370	12.1	19.0
6 10	18 21.65	-16 32.2	1.543	2.530	6.8	20.2	6 10	18 23.21	-36 34.7	1.392	2.371	8.5	18.8
6 20	18 12.80	-16 46.0	1.507	2.517	3.2	19.9	6 20	18 13.26	-37 19.7	1.374	2.372	6.1	18.6
6 30	18 3.35	-17 5.8	1.497	2.505	4.0	19.9	6 30	18 2.67	-37 45.9	1.381	2.374	6.9	18.7
7 10	17 54.48	-17 30.5	1.513	2.493	8.1	20.1	7 10	17 53.02	-37 52.5	1.411	2.376	10.0	18.9
7 20	17 47.23	-17 59.1	1.553	2.481	12.2	20.4	7 20	17 45.66	-37 42.2	1.464	2.380	13.6	19.1
7 30	17 42.42	-18 30.4	1.614	2.469	15.8	20.6	7 30	17 41.48	-37 19.8	1.536	2.384	16.8	19.3
261698	2005 <i>YV</i> ₂₂₅		6 23.5 349°77	1°8/23.2	18		344394	2001 <i>YM</i> ₈₀		6 23.5 103°99	0°9/23.6	18	
5 21	18 33.88	-26 39.6	2.247	3.111	11.4	20.2	5 21	18 35.77	-27 26.1	2.489	3.345	10.7	20.6
5 31	18 28.51	-27 22.8	2.172	3.110	8.5	20.0	5 31	18 29.45	-27 13.5	2.428	3.362	7.9	20.4
6 10	18 21.23	-28 5.7	2.121	3.110	5.2	19.8	6 10	18 21.55	-26 57.5	2.392	3.380	4.7	20.2
6 20	18 12.66	-28 45.1	2.097	3.109	2.2	19.6	6 20	18 12.73	-26 37.4	2.383	3.397	1.5	20.0
6 30	18 3.67	-29 18.6	2.102	3.109	3.1	19.7	6 30	18 3.80	-26 13.0	2.404	3.413	2.4	20.1
7 10	17 55.20	-29 44.9	2.133	3.108	6.4	19.9	7 10	17 55.57	-25 45.6	2.453	3.430	5.6	20.4
7 20	17 48.09	-30 4.0	2.191	3.108	9.6	20.1	7 20	17 48.71	-25 16.8	2.529	3.446	8.5	20.6
7 30	17 43.00	-30 17.2	2.271	3.108	12.4	20.3	7 30	17 43.71	-24 48.3	2.628	3.462	11.0	20.8
396065	2013 <i>CC</i> ₇₀		6 23.5 164°16	3°0/23.9	18		106702	2000 <i>WC</i> ₁₆₈		6 23.5 216°63	5°2/23.9	18	
5 21	18 31.95	-13 19.1	2.334	3.186	11.5	21.0	5 21	18 31.22	-5 2.2	2.822	3.642	10.6	20.4
5 31	18 26.83	-13 21.5	2.259	3.187	8.7	20.8	5 31	18 26.08	-4 45.3	2.738	3.634	8.6	20.3
6 10	18 20.11	-13 31.1	2.208	3.188	5.8	20.6	6 10	18 19.60	-4 38.4	2.677	3.626	6.6	20.1
6 20	18 12.35	-13 47.7	2.184	3.188	3.3	20.4	6 20	18 12.25	-4 42.5	2.643	3.618	5.3	20.0
6 30	18 4.28	-14 10.9	2.187	3.189	3.7	20.5	6 30	18 4.61	-4 58.2	2.636	3.609	5.5	20.0
7 10	17 56.70	-14 39.6	2.218	3.190	6.4	20.6	7 10	17 57.32	-5 24.7	2.657	3.600	7.0	20.1
7 20	17 50.29	-15 12.5	2.275	3.190	9.4	20.8	7 20	17 50.94	-6 0.7	2.704	3.590	9.1	20.2
7 30	17 45.61	-15 48.4	2.355	3.191	12.1	21.0	7 30	17 45.98	-6 44.4	2.774	3.580	11.2	20.4
94200	2001 <i>BF</i> ₁₇		6 23.5 219°91	0°7/23.5	18		412438	2014 <i>FB</i> ₂₅		6 23.5 177°70	9°1/23.6	18	
5 21	18 37.50	-26 16.3	2.239	3.097	11.7	20.2	5 21	18 51.04	-56 3.3	2.838	3.586	12.3	22.3
5 31	18 31.10	-26 5.0	2.153	3.088	8.7	20.0	5 31	18 41.52	-56 53.5	2.772	3.588	10.9	22.2
6 10	18 22.72	-25 50.5	2.090	3.079	5.2	19.8	6 10	18 29.08	-57 26.0	2.727	3.590	9.8	22.1
6 20	18 13.05	-25 31.8	2.055	3.069	1.5	19.5	6 20	18 14.76	-57 35.2	2.706	3.591	9.2	22.1
6 30	18 2.99	-25 8.6	2.049	3.059	2.6	19.6	6 30	18 0.05	-57 18.4	2.709	3.592	9.3	22.1
7 10	17 53.53	-24 41.7	2.070	3.048	6.4	19.8	7 10	17 46.52	-56 36.5	2.737	3.591	10.1	22.1
7 20	17 45.53	-24 13.1	2.119	3.037	9.9	20.0	7 20	17 35.41	-55 33.9	2.788	3.590	11.3	22.2
7 30	17 39.63	-23 44.9	2.190	3.025	12.9	20.2	7 30	17 27.48	-54 16.9	2.860	3.589	12.7	22.3
335127	2004 <i>TX</i> ₂₈₆		6 23.5 274°56	1°9/23.4	17		327802	2006 <i>VM</i> ₁₉		6 23.5 170°81	1°1/23.5	17	
5 21	18 36.41	-27 28.9	1.785	2.656	13.6	21.5	5 21	18 37.74	-21 32.2	1.798	2.665	13.7	21.2
5 31	18 30.89	-27 47.9	1.701	2.642	10.2	21.2	5 31	18 31.52	-21 14.9	1.727	2.667	10.2	21.0
6 10	18 22.88	-28 4.7	1.640	2.629	6.3	21.0	6 10	18 23.07	-20 58.3	1.679	2.669	6.1	20.7
6 20	18 13.14	-28 16.3	1.603	2.616	2.5	20.7	6 20	18 13.19	-20 41.8	1.657	2.671	1.9	20.5
6 30	18 2.78	-28 20.6	1.594	2.602	3.6	20.7	6 30	18 2.94	-20 25.8	1.662	2.672	3.1	20.6
7 10	17 53.05	-28 17.2	1.610	2.589	7.7	21.0	7 10	17 53.49	-20 10.8	1.694	2.673	7.4	20.8
7 20	17 45.08	-28 7.6	1.651	2.575	11.8	21.2	7 20	17 45.78	-19 58.1	1.750	2.673	11.3	21.0
7 30	17 39.71	-27 54.3	1.713	2.562	15.3	21.4	7 30	17 40.50	-19 48.7	1.829	2.673	14.6	21.3
512077	2015 <i>NM</i> ₅		6 23.5 315°29	0°5/23.6	18		207803 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
481220	2005 VR ₈₀		6 23.5 266°03	4.9/23.4	17		34045	2000 OD ₃₄		6 23.5 181°27	2°1/23.5	18	
5 21	18 31.77	- 8 48.8	2.538	3.375	11.2	22.1	5 21	18 36.08	-17 15.5	2.420	3.270	11.2	19.4
5 31	18 26.70	- 8 13.7	2.442	3.354	8.9	21.9	5 31	18 29.81	-17 0.4	2.342	3.271	8.4	19.2
6 10	18 20.08	- 7 46.0	2.370	3.333	6.6	21.7	6 10	18 21.89	-16 48.5	2.288	3.272	5.3	19.0
6 20	18 12.41	- 7 27.5	2.324	3.311	5.0	21.6	6 20	18 12.89	-16 39.9	2.262	3.272	2.5	18.8
6 30	18 4.34	- 7 19.3	2.306	3.290	5.4	21.5	6 30	18 3.61	-16 34.7	2.266	3.271	3.1	18.9
7 10	17 56.60	- 7 21.9	2.315	3.267	7.4	21.6	7 10	17 54.86	-16 33.0	2.297	3.270	6.2	19.1
7 20	17 49.87	- 7 34.7	2.350	3.245	10.0	21.8	7 20	17 47.35	-16 34.9	2.356	3.267	9.3	19.2
7 30	17 44.72	- 7 56.5	2.407	3.222	12.5	21.9	7 30	17 41.66	-16 40.4	2.438	3.264	12.0	19.4
303763	2005 QD ₁₅₈		6 23.5 328°05	0°4/23.5	18		297610	2001 SO ₃₀₁		6 23.5 223°68	0°7/23.5	18	
5 21	18 32.45	-21 12.1	1.895	2.767	12.9	20.3	5 21	18 34.53	-25 18.0	2.237	3.100	11.5	21.1
5 31	18 27.71	-21 27.7	1.816	2.759	9.5	20.0	5 31	18 28.94	-25 23.9	2.158	3.096	8.5	20.9
6 10	18 20.89	-21 46.4	1.760	2.751	5.7	19.8	6 10	18 21.49	-25 28.5	2.102	3.092	5.1	20.7
6 20	18 12.65	-22 6.7	1.729	2.744	1.6	19.5	6 20	18 12.81	-25 30.5	2.074	3.088	1.5	20.4
6 30	18 3.92	-22 27.1	1.726	2.737	2.8	19.6	6 30	18 3.75	-25 28.8	2.073	3.083	2.6	20.5
7 10	17 55.77	-22 46.4	1.748	2.730	6.9	19.8	7 10	17 55.27	-25 23.6	2.100	3.078	6.2	20.7
7 20	17 49.10	-23 4.4	1.795	2.723	10.7	20.0	7 20	17 48.16	-25 15.8	2.152	3.073	9.6	20.9
7 30	17 44.64	-23 21.3	1.865	2.717	14.1	20.2	7 30	17 43.06	-25 6.7	2.228	3.068	12.5	21.1
441423	2008 GV ₆₂		6 23.5 335°36	7°7/21.9	18		305219	2007 WM ₅₉		6 23.5 233°96	2°7/23.6	18	
5 21	18 38.07	-42 31.2	2.111	2.947	13.1	20.3	5 21	18 36.05	-31 52.1	2.278	3.135	11.6	20.9
5 31	18 32.29	-43 52.3	2.040	2.942	10.8	20.2	5 31	18 30.11	-31 58.6	2.198	3.130	8.7	20.7
6 10	18 23.83	-45 2.8	1.993	2.937	8.8	20.0	6 10	18 22.19	-31 59.0	2.142	3.125	5.7	20.5
6 20	18 13.47	-45 56.3	1.970	2.933	7.7	20.0	6 20	18 12.99	-31 51.3	2.112	3.119	3.0	20.3
6 30	18 2.37	-46 28.3	1.972	2.929	8.2	20.0	6 30	18 3.44	-31 34.3	2.110	3.114	3.6	20.3
7 10	17 51.94	-46 37.9	1.999	2.925	10.0	20.1	7 10	17 54.53	-31 8.7	2.135	3.108	6.6	20.5
7 20	17 43.40	-46 27.4	2.049	2.921	12.3	20.2	7 20	17 47.11	-30 36.8	2.187	3.102	9.7	20.7
7 30	17 37.65	-46 1.4	2.120	2.918	14.5	20.4	7 30	17 41.83	-30 1.5	2.261	3.096	12.5	20.9
58394	1995 UX ₂₀		6 23.5 60°06	2°2/23.5	18		311518	2005 WG ₁₇₉		6 23.5 333°00	3°2/23.0	18	
5 21	18 36.04	-18 38.3	1.575	2.448	15.0	18.7	5 21	18 33.35	-17 44.3	1.986	2.852	12.7	19.6
5 31	18 30.25	-18 20.3	1.527	2.469	11.1	18.5	5 31	18 28.11	-16 44.8	1.909	2.846	9.6	19.4
6 10	18 22.26	-18 6.6	1.501	2.490	6.8	18.3	6 10	18 21.00	-15 46.6	1.855	2.840	6.2	19.2
6 20	18 12.96	-17 57.2	1.500	2.511	2.8	18.1	6 20	18 12.67	-14 51.7	1.828	2.835	3.4	19.0
6 30	18 3.50	-17 52.0	1.524	2.533	3.8	18.2	6 30	18 4.04	-14 2.6	1.827	2.830	4.3	19.0
7 10	17 55.06	-17 51.2	1.575	2.554	7.8	18.5	7 10	17 56.05	-13 21.2	1.854	2.825	7.5	19.2
7 20	17 48.52	-17 54.6	1.649	2.576	11.6	18.8	7 20	17 49.49	-12 49.0	1.905	2.821	10.9	19.4
7 30	17 44.47	-18 2.1	1.744	2.597	14.9	19.0	7 30	17 44.99	-12 26.4	1.978	2.816	13.9	19.6
356978	1995 SM ₆₄		6 23.5 244°70	0°5/23.5	18		102402	1999 TS ₁₇₁		6 23.5 210°21	3°8/23.1	18	
5 21	18 34.05	-24 55.9	2.384	3.245	11.0	22.1	5 21	18 40.24	-31 3.7	1.739	2.602	14.2	20.0
5 31	18 28.53	-25 0.1	2.297	3.235	8.1	21.9	5 31	18 33.88	-31 49.9	1.664	2.599	10.8	19.8
6 10	18 21.22	-25 3.4	2.235	3.224	4.9	21.7	6 10	18 24.77	-32 31.8	1.611	2.594	7.1	19.5
6 20	18 12.72	-25 4.4	2.199	3.214	1.4	21.4	6 20	18 13.76	-33 4.4	1.584	2.590	4.1	19.3
6 30	18 3.82	-25 2.2	2.192	3.203	2.4	21.5	6 30	18 2.08	-33 24.0	1.583	2.585	5.0	19.4
7 10	17 55.42	-24 57.0	2.213	3.192	6.0	21.7	7 10	17 51.17	-33 29.7	1.609	2.579	8.5	19.6
7 20	17 48.28	-24 49.5	2.261	3.180	9.2	21.9	7 20	17 42.27	-33 23.4	1.658	2.573	12.3	19.8
7 30	17 43.02	-24 41.0	2.331	3.169	12.1	22.1	7 30	17 36.24	-33 8.7	1.729	2.567	15.6	20.0
368914	2006 UA ₃₄		6 23.5 341°56	0°5/23.5	18		398072	2009 HB ₁₀₄		6 23.5 330°10	1°1/23.5	18	
5 21	18 29.23	-21 33.8	2.418	3.286	10.6	20.4	5 21	18 30.29	-21 5.6	1.547	2.433	14.5	20.4
5 31	18 24.93	-21 35.2	2.336	3.277	7.8	20.2	5 31	18 26.70	-21 1.1	1.454	2.404	10.9	20.1
6 10	18 19.05	-21 38.1	2.278	3.269	4.7	20.0	6 10	18 20.61	-20 59.3	1.383	2.377	6.6	19.8
6 20	18 12.14	-21 41.7	2.247	3.261	1.3	19.7	6 20	18 12.69	-20 59.4	1.336	2.350	2.1	19.4
6 30	18 4.90	-21 45.5	2.243	3.253	2.3	19.8	6 30	18 3.98	-21 1.0	1.313	2.324	3.4	19.5
7 10	17 58.10	-21 49.4	2.266	3.246	5.7	20.0	7 10	17 55.78	-21 3.9	1.315	2.300	8.3	19.7
7 20	17 52.44	-21 53.4	2.315	3.240	8.8	20.2	7 20	17 49.27	-21 8.3	1.339	2.276	12.9	19.9
7 30	17 48.46	-21 57.9	2.387	3.234	11.6	20.3	7 30	17 45.39	-21 14.7	1.383	2.254	17.0	20.1
342543	2008 UC ₂₂₇		6 23.5 141°94	3°8/23.1	18		250307	2003 QA ₆₃		6 23.5 333°55	4°8/23.9	17	
5 21	18 37.92	-32 24.0	2.035	2.893	12.7	20.9	5 21	18 32.67	-13 20.3	1.177	2.065	18.0	19.7
5 31	18 31.73	-33 9.0	1.967	2.898	9.7	20.7	5 31	18 28.81	-13 11.9	1.108	2.054	13.9	19.4
6 10	18 23.25	-33 48.7	1.922	2.902	6.4	20.5	6 10	18 21.99	-13 16.7	1.058	2.045	9.3	19.1
6 20	18 13.27	-34 18.9	1.904	2.907	4.0	20.4	6 20	18 13.06	-13 35.8	1.028	2.036	5.3	18.8
6 30	18 2.85	-34 36.9	1.913	2.911	4.7	20.4	6 30	18 3.36	-14 8.8	1.022	2.028	6.0	18.9
7 10	17 53.15	-34 42.1	1.948	2.914	7.6	20.6	7 10	17 54.47	-14 53.3	1.038	2.020	10.4	19.1
7 20	17 45.17	-34 36.3	2.008	2.918	10.7	20.8	7 20	17 47.75	-15 45.9	1.075	2.014	15.2	19.3
7 30	17 39.64	-34 22.6	2.091	2.921	13.6	21.0	7 30	17 44.19	-16 43.4	1.131	2.008	19.5	19.6
214100	2004 OY ₅		6 23.5 3°02	2°0/23.1	16		392691	2011 WW ₄₆		6 23.5 257°18	0°1/23.5	18	
5 21	18 30.25	-24 5.8	1.341	2.235	15.7	18.6	5 21	18 34.34	-24 42.2	2.262	3.125	11.4	20.8
5 31	18 26.82	-25 9.3	1.280	2.234	11.6	18.4	5 31	18 28.78	-24 27.1	2.178	3.116	8.4	20.6
6 10	18 20.67	-26 16.8	1.240	2.234	7.0	18.1	6 10	18 21.39	-24 10.1	2.118	3.108	5.0	20.4
6 20	18 12.64	-27 23.2	1.222	2.236	2.5	17.9	6 20	18 12.81	-23 50.6	2.085	3.099	1.3	20.1
6 30	18 4.00	-28 23.3	1.230	2.239	4.1	18.0	6 30	18 3.88	-23 28.6	2.080	3.091	2.5	20.2
7 10	17 56.19	-29 13.7	1.261	2.244	8.7	18.3	7 10	17 55.51	-23 4.9	2.103	3.082	6.2	20.4
7 20	17 50.44	-29 53.2	1.314	2.251	13.1	18.5	7 20	17 48.50	-22 41.0	2.152	3.073	9.6	20.6
7 30	17 47.62	-30 22.9	1.387	2.259	16.9	18.8	7 30	17 43.44	-22 18.5	2.224	3.064	12.5	20.8
497938	2006 WS ₇₂		6 23.5 241°19	1°4/23.4	17		102027	1999 RC ₉₈		6 23.5 117°06	5°8/23.3	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
523649	2010 XZ ₇₈		6 23.5 140°15'	1.8°/23.5	17		512906	2016 WW ₄₉		6 23.5 219°10'	2.7°/23.1	18	
5 21	18 20.53	- 6 45.7	8.742	9.555	3.8	23.2	5 21	18 34.64	-30 29.1	2.530	3.385	10.6	21.7
5 31	18 17.63	- 6 26.5	8.669	9.563	3.0	23.1	5 31	18 29.01	-31 8.5	2.450	3.382	8.0	21.6
6 10	18 14.37	- 6 10.1	8.624	9.571	2.3	23.0	6 10	18 21.57	-31 44.7	2.396	3.378	5.2	21.4
6 20	18 10.91	- 5 56.9	8.606	9.578	1.9	23.0	6 20	18 12.91	-32 15.1	2.368	3.374	2.9	21.2
6 30	18 7.40	- 5 47.0	8.617	9.586	2.0	23.0	6 30	18 3.84	-32 37.2	2.369	3.370	3.6	21.3
7 10	18 4.01	- 5 40.5	8.657	9.593	2.5	23.1	7 10	17 55.24	-32 50.5	2.398	3.366	6.2	21.4
7 20	18 0.87	- 5 37.2	8.725	9.600	3.2	23.1	7 20	17 47.91	-32 55.6	2.452	3.362	9.1	21.6
7 30	17 58.14	- 5 37.0	8.818	9.608	4.0	23.2	7 30	17 42.48	-32 54.1	2.530	3.357	11.6	21.8
77309	2001 FU ₇₉		6 23.5 29°56'	3.7°/23.7	17		501393	2013 YF ₇₆		6 23.5 145°92'	3.2°/23.9	18	
5 21	18 37.05	-32 56.6	1.625	2.496	14.7	18.5	5 21	18 34.13	-13 35.4	2.196	3.048	12.1	21.8
5 31	18 31.39	-33 2.7	1.563	2.502	11.2	18.3	5 31	18 28.53	-13 32.0	2.126	3.054	9.2	21.6
6 10	18 23.15	-33 0.1	1.523	2.508	7.3	18.0	6 10	18 21.21	-13 35.7	2.080	3.060	6.1	21.4
6 20	18 13.29	-32 45.8	1.508	2.514	4.1	17.9	6 20	18 12.80	-13 46.6	2.061	3.065	3.5	21.2
6 30	18 3.11	-32 18.6	1.518	2.521	4.7	17.9	6 30	18 4.09	-14 4.1	2.069	3.071	3.9	21.3
7 10	17 53.98	-31 40.5	1.553	2.529	8.2	18.1	7 10	17 55.95	-14 27.4	2.104	3.076	6.8	21.5
7 20	17 46.96	-30 55.1	1.612	2.537	11.9	18.4	7 20	17 49.12	-14 55.3	2.166	3.080	9.8	21.7
7 30	17 42.75	-30 7.1	1.692	2.545	15.2	18.6	7 30	17 44.15	-15 26.7	2.250	3.085	12.6	21.9
437009	2012 TR ₂₅₈		6 23.5 284°29'	0.4°/23.6	17		249629	1999 TO ₆₉		6 23.5 227°54'	0.3°/23.5	18	
5 21	18 35.13	-19 56.2	1.836	2.704	13.4	21.4	5 21	18 33.09	-24 21.4	2.847	3.703	9.6	22.1
5 31	18 29.85	-20 34.9	1.754	2.695	10.0	21.1	5 31	18 27.60	-24 26.7	2.758	3.693	7.1	22.0
6 10	18 22.29	-21 19.4	1.695	2.685	6.0	20.9	6 10	18 20.61	-24 31.4	2.693	3.682	4.2	21.8
6 20	18 13.11	-22 7.2	1.662	2.676	1.7	20.6	6 20	18 12.64	-24 34.4	2.657	3.671	1.2	21.5
6 30	18 3.32	-22 55.4	1.656	2.667	2.9	20.6	6 30	18 4.35	-24 35.2	2.650	3.660	2.1	21.6
7 10	17 54.04	-23 41.6	1.676	2.657	7.3	20.9	7 10	17 56.45	-24 33.6	2.671	3.648	5.1	21.8
7 20	17 46.31	-24 24.2	1.722	2.648	11.3	21.1	7 20	17 49.58	-24 30.2	2.720	3.636	8.0	21.9
7 30	17 40.95	-25 2.8	1.790	2.639	14.7	21.3	7 30	17 44.28	-24 25.7	2.793	3.624	10.5	22.1
420964	2013 PK ₁₄		6 23.5 18°61'	2.4°/23.2	17		476931	2008 WB ₁₂₅		6 23.5 298°71'	2.5°/23.0	18	
5 21	18 36.76	-25 45.2	1.289	2.177	16.7	20.2	5 21	18 36.78	-26 25.6	1.766	2.637	13.7	20.5
5 31	18 31.76	-26 37.4	1.229	2.179	12.4	20.0	5 31	18 31.28	-27 29.6	1.690	2.631	10.3	20.3
6 10	18 23.70	-27 30.8	1.189	2.182	7.6	19.7	6 10	18 23.25	-28 34.9	1.636	2.625	6.4	20.1
6 20	18 13.50	-28 20.1	1.172	2.185	3.0	19.4	6 20	18 13.42	-29 36.9	1.609	2.620	2.9	19.8
6 30	18 2.66	-29 0.4	1.180	2.189	4.4	19.6	6 30	18 2.88	-30 31.0	1.608	2.614	4.1	19.9
7 10	17 52.82	-29 29.4	1.211	2.193	9.3	19.8	7 10	17 52.94	-31 14.3	1.633	2.608	8.0	20.1
7 20	17 45.35	-29 47.8	1.265	2.198	13.9	20.1	7 20	17 44.74	-31 46.4	1.683	2.603	11.9	20.3
7 30	17 41.17	-29 57.9	1.338	2.203	17.8	20.4	7 30	17 39.18	-32 9.1	1.755	2.598	15.2	20.5
112417	2002 NJ ₄₃		6 23.5 290°33'	0.1°/23.5	18		250535	2004 QA ₅		6 23.5 261°38'	6.3°/23.6	18	
5 21	18 36.46	-21 47.2	1.491	2.370	15.4	19.7	5 21	18 30.89	- 2 38.4	2.701	3.514	11.2	21.0
5 31	18 31.49	-22 9.7	1.399	2.345	11.5	19.4	5 31	18 26.00	- 2 5.0	2.608	3.495	9.3	20.8
6 10	18 23.62	-22 36.7	1.329	2.321	7.0	19.1	6 10	18 19.69	- 1 42.4	2.538	3.475	7.5	20.7
6 20	18 13.54	-23 5.9	1.282	2.296	1.9	18.7	6 20	18 12.41	- 1 32.7	2.494	3.456	6.4	20.6
6 30	18 2.45	-23 34.5	1.260	2.272	3.5	18.7	6 30	18 4.77	- 1 37.2	2.476	3.436	6.6	20.5
7 10	17 51.85	-24 0.4	1.264	2.247	8.8	19.0	7 10	17 57.44	- 1 55.7	2.485	3.415	8.1	20.6
7 20	17 43.12	-24 23.2	1.290	2.222	13.8	19.2	7 20	17 51.02	- 2 27.0	2.519	3.395	10.1	20.7
7 30	17 37.38	-24 43.4	1.337	2.198	18.1	19.4	7 30	17 46.05	- 3 8.9	2.575	3.374	12.2	20.8
478336	2011 WM ₁₂₀		6 23.5 253°11'	1.7°/23.8	18		421867	2014 QW ₁₅₀		6 23.5 33°67'	0.7°/23.4	17	
5 21	18 33.64	-16 37.6	2.492	3.344	10.9	21.9	5 21	18 36.93	-22 4.1	1.085	1.981	18.5	20.4
5 31	18 28.21	-16 53.5	2.396	3.327	8.2	21.7	5 31	18 32.14	-22 48.2	1.033	1.987	13.7	20.1
6 10	18 21.08	-17 14.8	2.325	3.310	5.1	21.5	6 10	18 24.01	-23 37.7	0.999	1.995	8.2	19.9
6 20	18 12.77	-17 40.7	2.281	3.292	2.2	21.2	6 20	18 13.62	-24 28.0	0.988	2.003	2.2	19.5
6 30	18 3.99	-18 10.2	2.266	3.274	2.8	21.2	6 30	18 2.63	-25 14.0	0.999	2.011	4.0	19.7
7 10	17 55.54	-18 42.0	2.279	3.255	6.0	21.4	7 10	17 52.85	-25 52.6	1.034	2.020	9.8	20.0
7 20	17 48.16	-19 15.1	2.319	3.236	9.2	21.6	7 20	17 45.73	-26 23.5	1.089	2.030	14.9	20.4
7 30	17 42.49	-19 48.9	2.383	3.217	12.0	21.7	7 30	17 42.19	-26 47.7	1.163	2.040	19.1	20.6
295303	2008 GB ₁₁₅		6 23.5 179°48'	1.1°/23.6	18		38794	2000 RC ₅₀		6 23.5 226°69'	2.4°/23.6	18	
5 21	18 32.51	-19 13.2	2.381	3.241	11.0	20.7	5 21	18 37.95	-17 32.7	1.761	2.624	14.1	18.7
5 31	18 27.32	-19 22.3	2.305	3.242	8.2	20.5	5 31	18 31.92	-17 22.8	1.678	2.614	10.7	18.5
6 10	18 20.49	-19 34.6	2.254	3.242	4.9	20.3	6 10	18 23.52	-17 17.8	1.618	2.604	6.7	18.2
6 20	18 12.60	-19 49.3	2.229	3.242	1.7	20.1	6 20	18 13.47	-17 17.3	1.582	2.593	2.9	18.0
6 30	18 4.39	-20 5.5	2.232	3.242	2.5	20.2	6 30	18 2.84	-17 21.2	1.574	2.582	3.8	18.0
7 10	17 56.67	-20 22.6	2.263	3.242	5.8	20.4	7 10	17 52.83	-17 29.0	1.593	2.570	8.0	18.2
7 20	17 50.14	-20 40.0	2.321	3.242	9.0	20.6	7 20	17 44.48	-17 40.8	1.636	2.557	12.0	18.4
7 30	17 45.38	-20 57.8	2.402	3.241	11.7	20.8	7 30	17 38.61	-17 56.2	1.701	2.544	15.6	18.6
192498	1998 KA ₇		6 23.5 15°24'	6.5°/22.9	17		79295	1995 UT ₄₂		6 23.5 201°53'	0.4°/23.5	18	
5 21	18 31.90	-13 36.0	1.244	2.130	17.3	18.7	5 21	18 38.62	-24 9.3	1.896	2.759	13.3	20.7
5 31	18 27.74	-12 12.5	1.192	2.135	13.4	18.5	5 31	18 32.28	-24 16.2	1.817	2.756	9.8	20.4
6 10	18 21.04	-10 57.1	1.160	2.142	9.4	18.3	6 10	18 23.66	-24 22.7	1.762	2.752	5.9	20.2
6 20	18 12.75	- 9 54.9	1.151	2.150	6.6	18.2	6 20	18 13.49	-24 27.0	1.733	2.748	1.6	19.9
6 30	18 4.18	- 9 9.8	1.164	2.160	7.5	18.2	6 30	18 2.85	-24 27.8	1.732	2.743	2.9	20.0
7 10	17 56.64	- 8 43.8	1.201	2.170	10.8	18.5	7 10	17 52.89	-24 24.9	1.758	2.737	7.1	20.2
7 20	17 51.18	- 8 36.2	1.258	2.182	14.7	18.7	7 20	17 44.61	-24 19.6	1.809	2.731	11.0	20.5
7 30	17 48.47	- 8 44.5	1.334	2.195	18.1	19.0	7 30	17 38.77	-24 13.4	1.882	2.724	14.4	20.7
154751	2004 PN ₃		6 23.5 326°27'	6.5°/23.9	18		245198	2004 TN ₃₄₀		6 23.5 197°65'	1.6°/23.3		

EPHEMERIDES

6 23.5

6 23.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
357520	2004 <i>RJ</i> ₁₀₄		6 23.5 320°43	4.8/23.6	18		442960	2013 <i>CQ</i> ₁₂₃		6 23.5 119°84	3.8/23.5	16	
5 21	18 35.24	-35 57.5	1.895	2.756	13.4	20.4	5 21	18 36.74	-35 55.6	2.598	3.442	10.7	22.0
5 31	18 30.14	-36 15.8	1.807	2.737	10.4	20.1	5 31	18 30.40	-36 17.0	2.534	3.454	8.3	21.9
6 10	18 22.55	-36 25.0	1.742	2.718	7.4	19.9	6 10	18 22.30	-36 30.8	2.494	3.465	5.8	21.7
6 20	18 13.23	-36 21.0	1.701	2.700	5.0	19.7	6 20	18 13.10	-36 34.4	2.480	3.476	4.0	21.6
6 30	18 3.30	-36 1.7	1.686	2.682	5.5	19.7	6 30	18 3.69	-36 26.6	2.495	3.487	4.3	21.7
7 10	17 54.08	-35 27.6	1.696	2.664	8.4	19.9	7 10	17 54.96	-36 8.0	2.538	3.498	6.4	21.8
7 20	17 46.66	-34 41.9	1.731	2.647	11.8	20.0	7 20	17 47.67	-35 40.7	2.606	3.508	8.9	22.0
7 30	17 41.87	-33 49.2	1.787	2.631	14.9	20.2	7 30	17 42.35	-35 7.6	2.698	3.518	11.2	22.2
203694	2002 <i>ND</i> ₆₆		6 23.5 289°98	3.0/23.7	18		159579	2001 <i>VM</i> ₈₁		6 23.5 153°89	0.4/23.5	17	
5 21	18 37.46	-32 1.0	1.856	2.720	13.5	20.0	5 21	18 38.08	-25 3.2	2.347	3.202	11.4	20.7
5 31	18 31.70	-31 58.9	1.766	2.702	10.3	19.8	5 31	18 31.36	-25 1.7	2.277	3.211	8.4	20.5
6 10	18 23.44	-31 49.0	1.699	2.683	6.6	19.5	6 10	18 22.86	-24 58.5	2.232	3.220	5.0	20.3
6 20	18 13.46	-31 28.6	1.657	2.665	3.4	19.3	6 20	18 13.26	-24 52.5	2.214	3.229	1.4	20.1
6 30	18 2.90	-30 56.6	1.641	2.647	4.1	19.3	6 30	18 3.42	-24 43.0	2.226	3.236	2.4	20.2
7 10	17 53.04	-30 14.1	1.652	2.629	7.8	19.4	7 10	17 54.24	-24 30.6	2.266	3.243	5.9	20.4
7 20	17 44.99	-29 24.6	1.688	2.610	11.7	19.6	7 20	17 46.50	-24 16.4	2.333	3.249	9.1	20.6
7 30	17 39.57	-28 32.4	1.746	2.592	15.1	19.8	7 30	17 40.75	-24 2.0	2.423	3.255	11.9	20.8
392012	2009 <i>AN</i> ₄		6 23.5 239°92	0.3/23.6	18		318288	2004 <i>TC</i> ₄₄		6 23.5 256°92	0.9/23.6	18	
5 21	18 35.55	-20 59.6	2.169	3.029	11.9	22.0	5 21	18 32.35	-20 48.4	2.607	3.465	10.2	21.3
5 31	18 29.86	-21 25.9	2.081	3.018	8.9	21.8	5 31	18 27.16	-20 40.3	2.516	3.452	7.6	21.1
6 10	18 22.19	-21 55.5	2.018	3.007	5.3	21.6	6 10	18 20.41	-20 33.3	2.450	3.439	4.6	20.9
6 20	18 13.12	-22 26.6	1.981	2.995	1.5	21.3	6 20	18 12.63	-20 27.1	2.412	3.425	1.5	20.7
6 30	18 3.52	-22 57.3	1.972	2.983	2.6	21.3	6 30	18 4.50	-20 21.5	2.402	3.411	2.4	20.7
7 10	17 54.36	-23 26.2	1.992	2.971	6.5	21.6	7 10	17 56.77	-20 16.6	2.420	3.398	5.6	20.9
7 20	17 46.54	-23 52.5	2.037	2.958	10.1	21.7	7 20	17 50.12	-20 12.8	2.465	3.384	8.6	21.1
7 30	17 40.76	-24 16.5	2.106	2.945	13.2	21.9	7 30	17 45.11	-20 10.7	2.533	3.369	11.3	21.3
169851	2002 <i>RL</i> ₃₄		6 23.5 307°68	1.4/23.4	18		173620	2001 <i>FE</i> ₄₂		6 23.5 46°42	1.0/23.5	17	
5 21	18 34.51	-25 39.1	1.771	2.646	13.5	19.5	5 21	18 37.47	-25 26.1	1.258	2.146	17.0	19.8
5 31	18 29.54	-26 5.7	1.690	2.633	10.1	19.3	5 31	18 32.04	-25 31.4	1.209	2.159	12.6	19.5
6 10	18 22.18	-26 32.3	1.630	2.621	6.1	19.0	6 10	18 23.69	-25 35.1	1.179	2.172	7.5	19.3
6 20	18 13.14	-26 56.2	1.596	2.609	2.1	18.7	6 20	18 13.52	-25 34.6	1.172	2.187	2.2	19.0
6 30	18 3.47	-27 14.9	1.588	2.598	3.3	18.8	6 30	18 3.03	-25 28.7	1.190	2.201	3.7	19.1
7 10	17 54.41	-27 27.4	1.606	2.586	7.6	19.0	7 10	17 53.80	-25 18.1	1.231	2.216	8.8	19.5
7 20	17 47.03	-27 34.0	1.648	2.575	11.6	19.2	7 20	17 47.00	-25 4.9	1.295	2.231	13.3	19.8
7 30	17 42.15	-27 36.5	1.711	2.564	15.1	19.4	7 30	17 43.36	-24 51.6	1.378	2.247	17.2	20.1
75642	2000 <i>AD</i> ₅₆		6 23.5 69°23	1.8/23.7	17		308549	2005 <i>UF</i> ₂₅₆		6 23.5 106°41	2.0/23.4	18	
5 21	18 36.79	-18 22.6	1.460	2.336	15.8	19.3	5 21	18 34.64	-28 39.6	2.333	3.194	11.2	21.1
5 31	18 31.17	-18 31.4	1.405	2.349	11.7	19.1	5 31	18 29.00	-29 4.9	2.265	3.200	8.3	20.9
6 10	18 23.05	-18 46.3	1.371	2.361	7.1	18.9	6 10	18 21.55	-29 27.2	2.220	3.207	5.2	20.7
6 20	18 13.33	-19 5.9	1.361	2.374	2.6	18.6	6 20	18 12.93	-29 44.4	2.203	3.213	2.4	20.5
6 30	18 3.26	-19 28.4	1.376	2.387	3.6	18.7	6 30	18 4.01	-29 54.7	2.213	3.219	3.1	20.6
7 10	17 54.16	-19 52.5	1.417	2.399	8.2	19.0	7 10	17 55.69	-29 58.0	2.251	3.225	6.2	20.8
7 20	17 47.09	-20 17.3	1.482	2.412	12.4	19.3	7 20	17 48.76	-29 55.2	2.315	3.232	9.2	21.0
7 30	17 42.76	-20 42.5	1.567	2.425	16.0	19.6	7 30	17 43.80	-29 48.1	2.402	3.238	11.9	21.2
233200	2005 <i>WT</i> ₁₈₉		6 23.5 292°27	4.6/23.9	18		283696	2002 <i>RR</i> ₁₅₅		6 23.5 218°41	0.9/23.5	17	
5 21	18 40.16	-35 34.9	1.615	2.478	15.2	18.4	5 21	18 35.66	-26 4.5	2.191	3.053	11.8	21.5
5 31	18 33.99	-35 33.8	1.536	2.468	11.8	18.1	5 31	18 29.86	-26 8.1	2.111	3.049	8.7	21.3
6 10	18 24.90	-35 20.6	1.478	2.457	8.1	17.9	6 10	18 22.12	-26 9.8	2.054	3.044	5.2	21.1
6 20	18 13.85	-34 51.5	1.444	2.447	5.0	17.7	6 20	18 13.10	-26 8.0	2.025	3.038	1.6	20.9
6 30	18 2.27	-34 5.0	1.436	2.437	5.5	17.7	6 30	18 3.70	-26 1.8	2.023	3.033	2.7	20.9
7 10	17 51.70	-33 3.6	1.454	2.427	9.0	17.8	7 10	17 54.89	-25 51.5	2.049	3.027	6.3	21.2
7 20	17 43.40	-31 52.6	1.495	2.417	12.9	18.0	7 20	17 47.50	-25 38.1	2.100	3.021	9.8	21.4
7 30	17 38.21	-30 38.6	1.557	2.407	16.5	18.3	7 30	17 42.20	-25 23.6	2.175	3.015	12.8	21.5
167808	2005 <i>BE</i> ₂₁		6 23.5 55°20	2.3/23.5	17		42693	1998 <i>KQ</i> ₃₈		6 23.5 74°58	1.8/23.5	18	
5 21	18 36.67	-28 51.5	1.693	2.566	14.1	19.8	5 21	18 39.62	-26 37.6	1.397	2.275	16.2	18.1
5 31	18 30.93	-29 6.8	1.637	2.578	10.5	19.6	5 31	18 33.44	-26 59.1	1.345	2.291	12.0	17.9
6 10	18 22.83	-29 17.6	1.602	2.591	6.5	19.4	6 10	18 24.46	-27 18.2	1.315	2.307	7.2	17.6
6 20	18 13.26	-29 21.4	1.593	2.604	2.8	19.2	6 20	18 13.73	-27 31.4	1.309	2.322	2.6	17.4
6 30	18 3.40	-29 16.7	1.610	2.618	3.7	19.3	6 30	18 2.68	-27 36.5	1.328	2.338	3.8	17.5
7 10	17 54.51	-29 4.0	1.653	2.631	7.6	19.5	7 10	17 52.82	-27 33.9	1.373	2.354	8.5	17.8
7 20	17 47.56	-28 45.6	1.720	2.645	11.3	19.8	7 20	17 45.30	-27 25.4	1.440	2.370	12.7	18.1
7 30	17 43.22	-28 24.4	1.808	2.659	14.5	20.0	7 30	17 40.86	-27 14.0	1.527	2.385	16.4	18.4
371514	2006 <i>UO</i> ₈₈		6 23.5 257°84	1.9/23.4	18		467952	2012 <i>FE</i> ₄₀		6 23.5 61°70	0.6/23.5	17	
5 21	18 39.33	-27 27.4	1.825	2.690	13.6	22.1	5 21	18 37.80	-23 35.8	1.448	2.327	15.7	21.2
5 31	18 33.19	-27 46.8	1.731	2.669	10.3	21.9	5 31	18 32.03	-23 11.6	1.386	2.332	11.6	21.0
6 10	18 24.44	-28 4.1	1.660	2.648	6.4	21.6	6 10	18 23.61	-22 46.0	1.345	2.337	6.9	20.7
6 20	18 13.77	-28 16.0	1.614	2.626	2.5	21.3	6 20	18 13.51	-22 18.7	1.328	2.342	1.9	20.4
6 30	18 2.31	-28 20.2	1.595	2.604	3.6	21.3	6 30	18 3.05	-21 50.2	1.336	2.348	3.4	20.5
7 10	17 51.38	-28 16.2	1.603	2.581	7.9	21.5	7 10	17 53.63	-21 22.1	1.370	2.353	8.3	20.8
7 20	17 42.19	-28 5.2	1.636	2.557	12.1	21.7	7 20	17 46.34	-20 56.7	1.427	2.359	12.7	21.1
7 30	17 35.66	-27 50.2	1.691	2.533	15.7	21.9	7 30	17 41.93	-20 35.7	1.505	2.364	16.5	21.3
316230	2010 <i>NF</i> ₁₁₂		6 23.5 233°04	3.8/23.5	18								

EPHEMERIDES

6 23.5

6 23.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
426868	2013 <i>WL</i> ₁₅		6 23.5	42°15'	0°9'/23.6	17	212990	2009 <i>DT</i> ₂₄		6 23.6	319°31'	0°4'/23.5	18	
5 21	18 35.14	-20 56.9	1.604	2.480	14.6	21.1	5 21	18 33.85	-23 32.6	1.892	2.764	12.9	20.2	
5 31	18 29.89	-20 58.0	1.541	2.486	10.8	20.9	5 31	18 28.83	-23 47.9	1.815	2.758	9.6	19.9	
6 10	18 22.29	-21 1.9	1.500	2.491	6.5	20.7	6 10	18 21.66	-24 4.2	1.760	2.752	5.7	19.7	
6 20	18 13.17	-21 7.4	1.483	2.497	1.9	20.4	6 20	18 13.04	-24 19.5	1.731	2.746	1.6	19.4	
6 30	18 3.67	-21 13.6	1.492	2.503	3.2	20.5	6 30	18 3.95	-24 32.4	1.729	2.740	2.8	19.5	
7 10	17 55.01	-21 20.0	1.527	2.510	7.7	20.8	7 10	17 55.46	-24 42.2	1.754	2.735	7.0	19.7	
7 20	17 48.19	-21 27.0	1.586	2.516	11.7	21.0	7 20	17 48.53	-24 49.2	1.803	2.730	10.8	19.9	
7 30	17 43.92	-21 34.8	1.665	2.523	15.2	21.3	7 30	17 43.86	-24 54.3	1.874	2.725	14.1	20.1	
496728	2016 <i>GM</i> ₁₃₁		6 23.5	221°82'	1°2'/23.5	17	102588	1999 <i>UM</i> ₅₂		6 23.6	134°34'	5°7'/23.9	18	R
5 21	18 40.36	-26 1.7	1.646	2.515	14.7	22.0	5 21	18 34.03	-7 5.5	2.177	3.012	12.8	19.4	
5 31	18 33.98	-26 11.5	1.566	2.507	11.0	21.8	5 31	18 28.42	-6 36.4	2.113	3.022	10.2	19.3	
6 10	18 24.89	-26 19.4	1.509	2.499	6.6	21.5	6 10	18 21.16	-6 18.3	2.072	3.031	7.6	19.1	
6 20	18 13.91	-26 22.7	1.476	2.490	2.1	21.2	6 20	18 12.86	-6 12.7	2.056	3.040	5.8	19.0	
6 30	18 2.28	-26 19.6	1.471	2.481	3.4	21.2	6 30	18 4.33	-6 20.1	2.067	3.048	6.1	19.1	
7 10	17 51.44	-26 10.2	1.491	2.471	8.1	21.5	7 10	17 56.38	-6 39.9	2.105	3.056	8.1	19.2	
7 20	17 42.57	-25 56.3	1.536	2.460	12.5	21.7	7 20	17 49.73	-7 10.4	2.167	3.064	10.6	19.4	
7 30	17 36.56	-25 40.7	1.602	2.449	16.2	21.9	7 30	17 44.90	-7 49.3	2.252	3.071	13.1	19.6	
442566	2012 <i>BL</i> ₆		6 23.6	284°98'	1°7'/23.6	18	106365	2000 <i>VS</i> ₈		6 23.6	310°55'	0°3'/23.6	18	
5 21	18 34.06	-28 53.7	2.317	3.178	11.2	21.4	5 21	18 32.79	-22 11.6	1.907	2.779	12.8	19.6	
5 31	18 28.65	-28 55.1	2.234	3.170	8.4	21.2	5 31	18 28.12	-22 19.9	1.818	2.761	9.5	19.3	
6 10	18 21.40	-28 52.4	2.175	3.162	5.2	21.0	6 10	18 21.30	-22 30.2	1.751	2.743	5.7	19.1	
6 20	18 12.94	-28 44.3	2.143	3.154	2.1	20.8	6 20	18 12.97	-22 41.1	1.710	2.725	1.6	18.7	
6 30	18 4.11	-28 29.9	2.138	3.146	2.9	20.8	6 30	18 4.05	-22 51.3	1.696	2.707	2.8	18.8	
7 10	17 55.85	-28 9.7	2.161	3.138	6.2	21.0	7 10	17 55.63	-23 0.3	1.708	2.690	7.0	19.0	
7 20	17 48.95	-27 45.3	2.210	3.130	9.4	21.2	7 20	17 48.66	-23 8.1	1.745	2.673	11.0	19.2	
7 30	17 44.03	-27 19.0	2.282	3.122	12.2	21.4	7 30	17 43.93	-23 15.5	1.803	2.657	14.4	19.4	
391645	2007 <i>VR</i> ₂₈₂		6 23.6	113°26'	0°6'/23.6	17	168861	2000 <i>VM</i> ₂₂		6 23.6	206°09'	4°0'/23.6	17	
5 21	18 34.48	-21 34.4	2.112	2.977	12.1	21.9	5 21	18 37.26	-14 39.0	1.647	2.510	14.9	20.5	
5 31	18 28.93	-21 33.9	2.044	2.983	8.9	21.7	5 31	18 31.44	-14 12.4	1.573	2.507	11.4	20.3	
6 10	18 21.53	-21 34.7	1.999	2.989	5.3	21.5	6 10	18 23.25	-13 52.7	1.521	2.504	7.5	20.0	
6 20	18 12.96	-21 35.9	1.981	2.995	1.5	21.3	6 20	18 13.47	-13 41.1	1.494	2.500	4.3	19.8	
6 30	18 4.11	-21 37.1	1.990	3.000	2.6	21.4	6 30	18 3.21	-13 38.1	1.493	2.496	5.0	19.9	
7 10	17 55.90	-21 38.0	2.026	3.006	6.3	21.6	7 10	17 53.67	-13 43.9	1.518	2.491	8.7	20.1	
7 20	17 49.11	-21 39.1	2.089	3.012	9.7	21.8	7 20	17 45.88	-13 57.8	1.567	2.486	12.6	20.3	
7 30	17 44.35	-21 40.9	2.174	3.017	12.7	22.0	7 30	17 40.62	-14 18.6	1.637	2.481	16.1	20.5	
257043	2008 <i>FH</i> ₆₇		6 23.6	145°91'	3°4'/23.6	18	507683	2013 <i>SA</i> ₆₂		6 23.6	245°94'	1°3'/23.6	17	
5 21	18 31.81	-13 23.5	2.406	3.257	11.2	20.8	5 21	18 37.01	-20 6.5	1.837	2.702	13.5	22.4	
5 31	18 26.74	-12 57.9	2.333	3.259	8.6	20.6	5 31	18 31.24	-20 3.7	1.750	2.689	10.1	22.1	
6 10	18 20.14	-12 37.9	2.284	3.261	5.8	20.4	6 10	18 23.17	-20 3.8	1.686	2.675	6.2	21.9	
6 20	18 12.59	-12 24.6	2.261	3.263	3.6	20.3	6 20	18 13.47	-20 5.8	1.648	2.661	2.1	21.6	
6 30	18 4.78	-12 18.4	2.266	3.264	4.1	20.3	6 30	18 3.18	-20 9.0	1.637	2.647	3.2	21.6	
7 10	17 57.47	-12 19.4	2.299	3.266	6.6	20.5	7 10	17 53.45	-20 13.4	1.652	2.632	7.5	21.8	
7 20	17 51.31	-12 27.2	2.357	3.267	9.3	20.7	7 20	17 45.32	-20 18.9	1.693	2.616	11.6	22.0	
7 30	17 46.80	-12 41.0	2.438	3.268	11.9	20.8	7 30	17 39.58	-20 26.3	1.755	2.601	15.1	22.2	
438176	2005 <i>TA</i> ₉₂		6 23.6	239°66'	0°6'/23.6	18	304553	2006 <i>UG</i> ₃₃₂		6 23.6	61°08'	9°0'/24.0	18	
5 21	18 33.44	-22 1.8	2.553	3.411	10.4	21.7	5 21	18 31.60	+1 5.6	2.070	2.881	14.3	20.6	
5 31	18 27.99	-21 51.0	2.465	3.401	7.7	21.5	5 31	18 26.74	+2 0.1	2.009	2.886	12.1	20.4	
6 10	18 20.93	-21 40.4	2.402	3.390	4.6	21.3	6 10	18 20.22	+2 38.1	1.969	2.891	10.2	20.3	
6 20	18 12.82	-21 29.6	2.366	3.380	1.4	21.0	6 20	18 12.64	+2 56.3	1.952	2.896	9.1	20.3	
6 30	18 4.36	-21 18.4	2.358	3.368	2.3	21.1	6 30	18 4.80	+2 53.0	1.960	2.902	9.2	20.3	
7 10	17 56.35	-21 7.2	2.379	3.357	5.6	21.3	7 10	17 57.52	+2 28.9	1.992	2.907	10.5	20.4	
7 20	17 49.48	-20 56.8	2.427	3.345	8.7	21.4	7 20	17 51.52	+1 46.7	2.046	2.913	12.5	20.5	
7 30	17 44.32	-20 47.8	2.498	3.333	11.5	21.6	7 30	17 47.34	+0 50.1	2.121	2.918	14.5	20.7	
514475	2016 <i>VR</i> ₇		6 23.6	196°05'	1°8'/23.6	18	141858	2002 <i>PO</i> ₁₇		6 23.6	278°13'	1°3'/23.6	18	
5 21	18 31.75	-17 9.0	2.841	3.693	9.7	23.0	5 21	18 37.12	-20 29.2	1.614	2.486	14.7	20.6	
5 31	18 26.53	-16 58.0	2.760	3.691	7.2	22.9	5 31	18 31.75	-20 22.6	1.520	2.462	11.1	20.4	
6 10	18 19.97	-16 50.1	2.704	3.688	4.6	22.7	6 10	18 23.71	-20 18.6	1.448	2.438	6.8	20.0	
6 20	18 12.54	-16 45.3	2.676	3.685	2.2	22.5	6 20	18 13.68	-20 16.5	1.400	2.414	2.3	19.7	
6 30	18 4.87	-16 43.7	2.677	3.682	2.7	22.6	6 30	18 2.79	-20 15.6	1.379	2.389	3.5	19.7	
7 10	17 57.59	-16 45.1	2.706	3.679	5.3	22.7	7 10	17 52.42	-20 15.8	1.383	2.364	8.4	20.0	
7 20	17 51.30	-16 49.6	2.762	3.675	8.0	22.9	7 20	17 43.79	-20 17.7	1.410	2.339	13.1	20.2	
7 30	17 46.47	-16 56.9	2.842	3.671	10.4	23.1	7 30	17 37.89	-20 22.2	1.459	2.313	17.2	20.3	
208855	2002 <i>RJ</i> ₂₇₅		6 23.6	243°66'	1°7'/23.5	18	323409	2004 <i>CK</i> ₄₃		6 23.6	45°90'	1°2'/23.6	17	
5 21	18 36.44	-28 5.5	2.299	3.157	11.4	21.7	5 21	18 36.18	-20 37.8	1.328	2.212	16.5	20.6	
5 31	18 30.51	-28 20.7	2.208	3.143	8.5	21.5	5 31	18 30.95	-20 37.5	1.275	2.224	12.2	20.4	
6 10	18 22.59	-28 33.3	2.142	3.128	5.3	21.3	6 10	18 23.03	-20 40.8	1.243	2.236	7.3	20.2	
6 20	18 13.28	-28 40.9	2.102	3.114	2.2	21.0	6 20	18 13.42	-20 46.6	1.234	2.248	2.3	19.9	
6 30	18 3.49	-28 42.0	2.090	3.098	3.0	21.1	6 30	18 3.46	-20 53.6	1.250	2.261	3.6	20.0	
7 10	17 54.18	-28 36.6	2.107	3.082	6.4	21.3	7 10	17 54.59	-21 1.4	1.290	2.275	8.5	20.3	
7 20	17 46.24	-28 25.6	2.149	3.066	9.8	21.4	7 20	17 47.92	-21 10.2	1.353	2.288	13.0	20.6	
7 30	17 40.38	-28 11.2	2.215	3.050	12.8	21.6	7 30	17 44.17	-21 20.2	1.436	2.302	16.7	20.9	
286469	2002 <i>AN</i> ₁₄₄		6 23.6	172°74'	2°3'/									

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
422990	2003 <i>SS</i> ₈₆	6 23.6 282°39		4.4°/23.3 17			446369	2014 <i>HW</i> ₃₈	6 23.6 357°95		3.0°/23.8 16		
5 21	18 40.65	-31 55.5	1.537	2.407	15.5	21.8	5 21	18 31.67	-14 56.8	1.954	2.818	12.9	20.9
5 31	18 34.93	-32 30.4	1.441	2.378	12.0	21.5	5 31	18 27.03	-14 49.6	1.882	2.817	9.8	20.7
6 10	18 25.91	-33 0.4	1.365	2.349	8.0	21.2	6 10	18 20.52	-14 49.1	1.833	2.816	6.3	20.5
6 20	18 14.34	-33 19.6	1.314	2.320	4.7	20.9	6 20	18 12.77	-14 55.7	1.808	2.816	3.4	20.3
6 30	18 1.59	-33 23.5	1.288	2.290	5.6	20.9	6 30	18 4.67	-15 9.1	1.811	2.815	3.9	20.3
7 10	17 49.37	-33 10.8	1.286	2.260	9.8	21.1	7 10	17 57.15	-15 28.4	1.839	2.816	7.2	20.5
7 20	17 39.30	-32 44.2	1.308	2.229	14.4	21.2	7 20	17 51.00	-15 52.7	1.893	2.816	10.6	20.7
7 30	17 32.59	-32 8.8	1.349	2.199	18.6	21.4	7 30	17 46.87	-16 20.7	1.968	2.817	13.6	20.9
385470	2003 <i>UT</i> ₁₄₀	6 23.6 306°70		4.1°/23.9 18			183347	2002 <i>VJ</i> ₁₀₈	6 23.6 291°26		3.0°/23.3 18		
5 21	18 32.92	-13 9.5	1.655	2.523	14.7	20.7	5 21	18 37.55	-28 38.1	1.517	2.394	15.2	20.0
5 31	18 28.43	-13 3.0	1.569	2.504	11.3	20.5	5 31	18 32.42	-29 12.0	1.430	2.373	11.6	19.8
6 10	18 21.60	-13 6.4	1.503	2.486	7.6	20.2	6 10	18 24.28	-29 44.0	1.364	2.353	7.3	19.5
6 20	18 13.11	-13 20.5	1.462	2.467	4.5	20.0	6 20	18 13.89	-30 9.5	1.321	2.332	3.4	19.2
6 30	18 3.93	-13 45.2	1.446	2.449	5.0	20.0	6 30	18 2.54	-30 24.8	1.304	2.311	4.6	19.2
7 10	17 55.25	-14 19.1	1.456	2.432	8.6	20.1	7 10	17 51.82	-30 28.4	1.312	2.290	9.1	19.4
7 20	17 48.13	-15 0.4	1.488	2.414	12.7	20.3	7 20	17 43.13	-30 21.9	1.342	2.270	13.7	19.6
7 30	17 43.42	-15 46.9	1.542	2.398	16.3	20.5	7 30	17 37.56	-30 8.5	1.392	2.249	17.7	19.8
178327	1995 <i>SL</i> ₁₈	6 23.6 195°26		1.4°/23.5 17			39945	1998 <i>FT</i> ₁₁₀	6 23.6 328°89		5.9°/22.8 18		
5 21	18 39.49	-26 34.7	1.933	2.795	13.1	21.9	5 21	18 32.01	-14 18.4	1.377	2.258	16.2	18.1
5 31	18 32.96	-26 48.5	1.856	2.793	9.8	21.7	5 31	18 28.04	-13 3.5	1.298	2.240	12.6	17.9
6 10	18 24.13	-27 0.3	1.802	2.790	5.9	21.5	6 10	18 21.47	-11 52.8	1.239	2.222	8.8	17.6
6 20	18 13.74	-27 7.5	1.774	2.787	2.0	21.2	6 20	18 13.09	-10 50.7	1.204	2.205	6.1	17.4
6 30	18 2.87	-27 8.4	1.773	2.783	3.1	21.3	6 30	18 4.06	-10 1.5	1.192	2.190	7.0	17.4
7 10	17 52.72	-27 3.1	1.801	2.778	7.1	21.5	7 10	17 55.74	-9 28.3	1.204	2.175	10.7	17.6
7 20	17 44.27	-26 52.9	1.853	2.773	10.9	21.7	7 20	17 49.27	-9 12.1	1.237	2.161	14.9	17.8
7 30	17 38.28	-26 40.2	1.928	2.767	14.2	21.9	7 30	17 45.55	-9 11.9	1.288	2.148	18.7	18.0
475578	2006 <i>UW</i> ₂₇	6 23.6 255°74		4.9°/22.9 18			7147	Feijth	6 23.6 326°94		1.1°/23.6 18		
5 21	18 37.48	-36 19.0	2.245	3.094	12.0	21.9	5 21	18 33.48	-25 41.2	1.228	2.122	16.9	17.9
5 31	18 31.54	-37 6.7	2.163	3.084	9.4	21.7	5 31	18 29.68	-25 45.1	1.150	2.105	12.7	17.6
6 10	18 23.33	-37 47.3	2.105	3.074	6.8	21.6	6 10	18 22.73	-25 47.5	1.093	2.087	7.7	17.2
6 20	18 13.55	-38 16.6	2.073	3.064	5.0	21.4	6 20	18 13.48	-25 45.8	1.057	2.071	2.4	16.9
6 30	18 3.19	-38 31.5	2.067	3.054	5.6	21.5	6 30	18 3.34	-25 38.2	1.044	2.055	3.9	16.9
7 10	17 53.40	-38 31.3	2.089	3.044	7.9	21.6	7 10	17 54.03	-25 25.1	1.054	2.041	9.5	17.2
7 20	17 45.19	-38 17.9	2.135	3.034	10.7	21.7	7 20	17 47.02	-25 8.4	1.085	2.027	14.7	17.4
7 30	17 39.34	-37 54.7	2.203	3.023	13.3	21.9	7 30	17 43.36	-24 51.1	1.134	2.015	19.2	17.7
259050	2002 <i>TC</i> ₃₄₀	6 23.6 18°46		1.9°/23.4 17			442062	2010 <i>RA</i> ₁₁₅	6 23.6 351°14		4.5°/23.5 18		
5 21	18 36.93	-25 32.0	1.380	2.263	16.1	20.0	5 21	18 35.88	-35 53.4	2.112	2.966	12.4	20.9
5 31	18 31.78	-26 12.9	1.317	2.265	11.9	19.8	5 31	18 30.30	-36 19.6	2.039	2.965	9.7	20.7
6 10	18 23.72	-26 54.5	1.275	2.267	7.3	19.5	6 10	18 22.53	-36 37.5	1.990	2.963	6.8	20.6
6 20	18 13.67	-27 32.4	1.256	2.269	2.6	19.3	6 20	18 13.32	-36 43.6	1.966	2.962	4.7	20.4
6 30	18 3.01	-28 2.8	1.262	2.272	4.0	19.4	6 30	18 3.72	-36 36.0	1.968	2.961	5.2	20.5
7 10	17 53.29	-28 24.1	1.293	2.275	8.8	19.6	7 10	17 54.85	-36 15.3	1.997	2.960	7.6	20.6
7 20	17 45.80	-28 36.8	1.347	2.279	13.3	19.9	7 20	17 47.66	-35 43.8	2.050	2.960	10.6	20.8
7 30	17 41.41	-28 43.2	1.420	2.282	17.1	20.2	7 30	17 42.83	-35 5.4	2.126	2.960	13.3	21.0
253707	2003 <i>UQ</i> ₃₁₅	6 23.6 333°76		3.2°/23.5 17			259828	2004 <i>CO</i> ₁₄	6 23.6 99°16		0.8°/23.5 17		
5 21	18 32.91	-18 40.8	1.155	2.050	17.7	20.1	5 21	18 38.99	-24 27.7	1.600	2.472	14.8	21.2
5 31	18 29.13	-18 8.1	1.084	2.038	13.4	19.8	5 31	18 32.75	-24 44.8	1.543	2.485	10.9	21.0
6 10	18 22.31	-17 39.5	1.033	2.026	8.4	19.5	6 10	18 24.02	-25 1.7	1.507	2.498	6.5	20.8
6 20	18 13.33	-17 16.4	1.004	2.016	3.8	19.2	6 20	18 13.71	-25 15.8	1.497	2.511	1.9	20.5
6 30	18 3.60	-17 0.2	0.997	2.006	5.0	19.2	6 30	18 3.07	-25 25.1	1.513	2.524	3.2	20.6
7 10	17 54.77	-16 51.8	1.012	1.997	10.1	19.5	7 10	17 53.40	-25 29.5	1.555	2.536	7.7	20.9
7 20	17 48.22	-16 51.8	1.048	1.990	15.2	19.7	7 20	17 45.76	-25 30.1	1.621	2.548	11.8	21.2
7 30	17 44.91	-16 59.7	1.102	1.983	19.7	20.0	7 30	17 40.84	-25 28.6	1.708	2.559	15.2	21.4
340544	2006 <i>KJ</i> ₁₆	6 23.6 280°19		2.6°/24.5 17			511454	2014 <i>JU</i> ₈₃	6 23.6 328°90		3.7°/24.1 18		
5 21	18 43.16	-10 8.7	1.129	1.996	20.0	19.9	5 21	18 31.32	-12 32.7	1.862	2.725	13.5	20.6
5 31	18 37.33	-11 57.7	1.047	1.984	15.5	19.5	5 31	18 26.96	-12 39.1	1.780	2.713	10.4	20.4
6 10	18 27.69	-14 19.1	0.985	1.971	9.9	19.2	6 10	18 20.60	-12 55.8	1.720	2.701	7.0	20.2
6 20	18 14.91	-17 8.1	0.946	1.958	4.1	18.8	6 20	18 12.83	-13 22.7	1.685	2.690	4.1	20.0
6 30	18 0.49	-20 12.7	0.934	1.945	4.6	18.8	6 30	18 4.56	-13 59.2	1.676	2.679	4.5	20.0
7 10	17 46.48	-23 17.6	0.949	1.932	10.9	19.1	7 10	17 56.77	-14 43.4	1.693	2.669	7.7	20.1
7 20	17 34.85	-26 9.6	0.987	1.920	16.9	19.4	7 20	17 50.36	-15 33.0	1.735	2.660	11.3	20.3
7 30	17 27.14	-28 41.8	1.045	1.907	21.9	19.7	7 30	17 46.06	-16 25.9	1.798	2.651	14.5	20.5
425599	2010 <i>UJ</i> ₂₁	6 23.6 203°94		4.1°/23.5 17			94555	2001 <i>VR</i> ₁₄	6 23.6 22°35		5.8°/23.6 17		
5 21	18 36.98	-14 57.9	1.668	2.532	14.8	21.4	5 21	18 37.60	-33 22.9	1.036	1.930	19.3	18.1
5 31	18 31.18	-14 20.7	1.596	2.530	11.3	21.1	5 31	18 33.06	-33 59.7	0.986	1.936	14.8	17.8
6 10	18 23.09	-13 49.5	1.545	2.527	7.5	20.9	6 10	18 24.76	-34 26.0	0.955	1.943	10.0	17.6
6 20	18 13.47	-13 25.6	1.519	2.524	4.4	20.7	6 20	18 13.98	-34 35.0	0.945	1.950	6.2	17.4
6 30	18 3.40	-13 10.6	1.520	2.521	5.1	20.7	6 30	18 2.66	-34 23.4	0.956	1.959	6.9	17.5
7 10	17 54.07	-13 4.8	1.546	2.518	8.7	20.9	7 10	17 52.90	-33 52.9	0.989	1.969	11.1	17.7
7 20	17 46.48	-13 8.2	1.596	2.514	12.5	21.2	7 20	17 46.20	-33 9.3	1.042	1.979	15.7	18.0
7 30	17 41.36	-13 20.0	1.667	2.510	15.9	21.4	7 30	17 43.44	-32 19.5	1.112	1.990	19.7	18.3
95377	2002 <i>CR</i> ₁₆₅	6 23.6 14°14		4.9°/23.4 18			512632	2016 <i>TC</i> ₄₆	6 23.6 180°43				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
93326	2000 <i>SE</i> ₂₂₇		6 23.6 265°94	7°5/23.5	18		159410	1999 <i>RU</i> ₁₂₂		6 23.6 301°81	8°4/24.2	18	R
5 21	18 33.83	- 4 46.0	1.925	2.759	14.3	19.6	5 21	18 33.01	- 3 29.4	1.673	2.513	15.8	19.5
5 31	18 28.72	- 3 57.6	1.839	2.743	11.8	19.4	5 31	18 28.54	- 3 0.5	1.578	2.485	13.2	19.2
6 10	18 21.62	- 3 21.6	1.775	2.726	9.3	19.2	6 10	18 21.76	- 2 48.4	1.504	2.456	10.5	19.0
6 20	18 13.12	- 3 1.4	1.735	2.709	7.7	19.1	6 20	18 13.23	- 2 56.9	1.452	2.428	8.6	18.8
6 30	18 4.08	- 2 59.2	1.720	2.691	8.0	19.1	6 30	18 3.91	- 3 28.0	1.424	2.400	8.8	18.8
7 10	17 55.50	- 3 15.3	1.731	2.674	10.1	19.2	7 10	17 54.93	- 4 21.1	1.420	2.371	11.2	18.8
7 20	17 48.26	- 3 48.0	1.764	2.656	12.9	19.3	7 20	17 47.38	- 5 32.9	1.438	2.343	14.4	19.0
7 30	17 43.07	- 4 34.3	1.819	2.638	15.7	19.5	7 30	17 42.17	- 6 58.5	1.477	2.316	17.8	19.1
100270	1994 <i>VQ</i>		6 23.6 237°93	0°9/23.5	18	R	302181	2001 <i>TY</i> ₁₂₉		6 23.6 155°50	4°4/23.7	17	
5 21	18 38.22	-25 15.8	1.892	2.757	13.2	20.1	5 21	18 38.46	-14 4.8	1.524	2.388	15.9	20.8
5 31	18 32.17	-25 27.3	1.806	2.745	9.9	19.8	5 31	18 32.41	-13 36.3	1.459	2.393	12.1	20.5
6 10	18 23.76	-25 37.9	1.744	2.733	6.0	19.6	6 10	18 23.88	-13 16.1	1.415	2.397	8.1	20.3
6 20	18 13.70	-25 45.4	1.706	2.720	1.8	19.3	6 20	18 13.74	-13 5.2	1.396	2.401	4.7	20.1
6 30	18 3.04	-25 48.1	1.697	2.707	3.0	19.3	6 30	18 3.18	-13 4.4	1.402	2.404	5.4	20.2
7 10	17 52.98	-25 45.8	1.714	2.694	7.3	19.6	7 10	17 53.48	-13 13.4	1.434	2.407	9.1	20.4
7 20	17 44.57	-25 39.6	1.757	2.679	11.3	19.8	7 20	17 45.72	-13 31.1	1.489	2.410	13.0	20.6
7 30	17 38.62	-25 31.5	1.821	2.665	14.7	20.0	7 30	17 40.62	-13 56.1	1.565	2.412	16.6	20.9
466105	2012 <i>CG</i> ₄₀		6 23.6 52°25	1°7/23.6	17		268999	2007 <i>EL</i> ₁₀₉		6 23.6 87°83	5°5/23.1	17	
5 21	18 38.38	-26 47.4	1.294	2.179	16.8	21.4	5 21	18 40.11	-35 4.9	1.698	2.559	14.7	20.6
5 31	18 32.76	-26 58.1	1.242	2.191	12.5	21.2	5 31	18 33.88	-36 0.0	1.637	2.566	11.4	20.4
6 10	18 24.20	-27 5.8	1.211	2.204	7.5	21.0	6 10	18 24.87	-36 46.9	1.599	2.574	8.0	20.2
6 20	18 13.79	-27 7.5	1.203	2.216	2.6	20.7	6 20	18 14.02	-37 19.8	1.585	2.582	5.7	20.1
6 30	18 3.03	-27 1.6	1.219	2.230	3.9	20.8	6 30	18 2.67	-37 35.0	1.597	2.589	6.3	20.2
7 10	17 53.52	-26 49.0	1.259	2.243	8.8	21.2	7 10	17 52.28	-37 32.4	1.635	2.597	9.1	20.4
7 20	17 46.43	-26 32.0	1.322	2.257	13.3	21.4	7 20	17 44.06	-37 15.0	1.695	2.604	12.4	20.6
7 30	17 42.52	-26 13.7	1.405	2.271	17.1	21.7	7 30	17 38.83	-36 47.6	1.777	2.612	15.4	20.8
254188	2004 <i>RL</i> ₃₇		6 23.6 349°84	5°0/23.5	18		255027	2005 <i>TQ</i> ₆₄		6 23.6 128°60	1°9/23.4	18	
5 21	18 35.95	-36 36.9	2.012	2.868	12.9	20.0	5 21	18 34.70	-28 40.3	2.482	3.339	10.7	20.7
5 31	18 30.49	-37 6.9	1.940	2.865	10.1	19.8	5 31	18 29.02	-29 5.3	2.412	3.346	8.0	20.5
6 10	18 22.71	-37 28.0	1.890	2.863	7.2	19.6	6 10	18 21.61	-29 27.5	2.366	3.352	5.0	20.3
6 20	18 13.39	-37 36.2	1.866	2.861	5.2	19.5	6 20	18 13.11	-29 44.8	2.348	3.358	2.3	20.1
6 30	18 3.65	-37 29.4	1.868	2.859	5.6	19.5	6 30	18 4.30	-29 55.6	2.358	3.364	3.0	20.2
7 10	17 54.67	-37 8.0	1.895	2.857	8.1	19.6	7 10	17 56.06	-29 59.6	2.396	3.370	5.9	20.4
7 20	17 47.46	-36 34.8	1.947	2.856	11.0	19.8	7 20	17 49.11	-29 57.8	2.460	3.376	8.8	20.6
7 30	17 42.75	-35 53.9	2.021	2.856	13.8	20.0	7 30	17 44.03	-29 51.7	2.548	3.381	11.3	20.8
425957	2011 <i>HL</i> ₁₁		6 23.6 262°62	2°8/23.8	17		183161	2002 <i>SP</i> ₁₄		6 23.6 270°18	2°3/23.4	18	
5 21	18 34.81	-15 43.4	1.800	2.664	13.8	20.8	5 21	18 38.92	-27 44.9	1.697	2.566	14.3	20.7
5 31	18 29.58	-15 43.6	1.721	2.657	10.4	20.6	5 31	18 33.17	-28 14.2	1.605	2.545	10.8	20.4
6 10	18 22.17	-15 50.8	1.665	2.650	6.7	20.3	6 10	18 24.64	-28 42.1	1.535	2.523	6.7	20.1
6 20	18 13.28	-16 5.0	1.634	2.643	3.3	20.1	6 20	18 14.03	-29 4.7	1.489	2.501	2.9	19.9
6 30	18 3.86	-16 25.4	1.629	2.636	3.9	20.1	6 30	18 2.53	-29 18.7	1.471	2.478	4.0	19.9
7 10	17 55.03	-16 50.8	1.651	2.629	7.7	20.3	7 10	17 51.56	-29 23.0	1.478	2.456	8.4	20.1
7 20	17 47.75	-17 20.1	1.697	2.621	11.5	20.5	7 20	17 42.43	-29 18.7	1.509	2.432	12.7	20.3
7 30	17 42.75	-17 52.2	1.765	2.614	14.9	20.7	7 30	17 36.14	-29 8.8	1.561	2.409	16.6	20.5
114629	2003 <i>EU</i> ₁₆		6 23.6 335°23	4°1/24.2	17		410725	2009 <i>BV</i> ₁₀₆		6 23.6 206°03	1°4/23.6	17	
5 21	18 32.41	-10 46.5	2.060	2.911	12.8	19.6	5 21	18 41.29	-27 24.1	1.626	2.494	14.9	21.7
5 31	18 27.50	-10 47.8	1.985	2.909	9.9	19.5	5 31	18 34.68	-27 21.7	1.550	2.490	11.1	21.4
6 10	18 20.79	-10 59.3	1.933	2.908	6.9	19.3	6 10	18 25.33	-27 15.0	1.496	2.486	6.8	21.2
6 20	18 12.88	-11 21.2	1.906	2.906	4.4	19.1	6 20	18 14.16	-27 1.8	1.468	2.481	2.3	20.9
6 30	18 4.60	-11 53.0	1.907	2.905	4.7	19.1	6 30	18 2.44	-26 40.9	1.466	2.476	3.5	20.9
7 10	17 56.83	-12 33.1	1.933	2.903	7.4	19.3	7 10	17 51.61	-26 13.6	1.490	2.470	8.1	21.2
7 20	17 50.36	-13 19.4	1.985	2.902	10.5	19.5	7 20	17 42.86	-25 42.7	1.538	2.463	12.4	21.4
7 30	17 45.81	-14 9.8	2.060	2.901	13.4	19.7	7 30	17 37.02	-25 11.6	1.608	2.456	16.1	21.7
248960	2006 <i>YT</i> ₁		6 23.6 272°96	2°5/23.8	18		177050	2003 <i>EW</i> ₁₉		6 23.6 71°30	2°8/23.8	17	
5 21	18 36.82	-32 10.9	2.267	3.122	11.7	20.8	5 21	18 33.98	-15 21.9	2.078	2.936	12.5	20.4
5 31	18 30.77	-31 58.9	2.180	3.111	8.8	20.6	5 31	18 28.44	-15 9.1	2.024	2.957	9.4	20.2
6 10	18 22.73	-31 39.6	2.117	3.100	5.7	20.3	6 10	18 21.21	-15 2.1	1.995	2.977	6.0	20.0
6 20	18 13.40	-31 11.2	2.081	3.089	2.9	20.1	6 20	18 12.99	-15 1.1	1.991	2.998	3.2	19.9
6 30	18 3.71	-30 33.4	2.073	3.078	3.4	20.2	6 30	18 4.60	-15 5.9	2.015	3.019	3.7	20.0
7 10	17 54.69	-29 47.7	2.093	3.067	6.5	20.3	7 10	17 56.93	-15 16.0	2.066	3.040	6.7	20.2
7 20	17 47.17	-28 57.0	2.138	3.056	9.8	20.5	7 20	17 50.66	-15 30.7	2.142	3.060	9.8	20.4
7 30	17 41.80	-28 4.7	2.207	3.045	12.7	20.7	7 30	17 46.32	-15 49.2	2.241	3.081	12.5	20.6
397080	2005 <i>UG</i> ₂₅₂		6 23.6 249°55	2°3/23.4	18		385134	2013 <i>SB</i> ₂₄		6 23.6 301°54	5°7/22.9	18	
5 21	18 33.26	-17 24.6	2.492	3.347	10.8	21.3	5 21	18 38.81	-33 49.0	1.503	2.375	15.7	20.4
5 31	18 27.88	-16 52.4	2.404	3.335	8.1	21.1	5 31	18 33.46	-34 51.4	1.429	2.365	12.2	20.2
6 10	18 20.92	-16 22.4	2.340	3.323	5.2	20.9	6 10	18 24.94	-35 48.1	1.376	2.356	8.5	19.9
6 20	18 12.91	-15 55.3	2.303	3.311	2.6	20.7	6 20	18 14.12	-36 32.0	1.347	2.346	5.9	19.8
6 30	18 4.57	-15 32.0	2.294	3.299	3.3	20.7	6 30	18 2.43	-36 57.9	1.342	2.337	6.7	19.8
7 10	17 56.68	-15 13.2	2.314	3.286	6.2	20.9	7 10	17 51.56	-37 4.1	1.362	2.329	10.1	20.0
7 20	17 49.90	-14 59.7	2.360	3.273	9.2	21.1	7 20	17 42.97	-36 53.2	1.404	2.320	14.0	20.2
7 30	17 44.81	-14 51.5	2.429	3.260	11.9	21.2	7 30	17 37.72	-36 30.2	1.465	2.312	17.5	20.4
106922	2000 <i>YM</i> ₅₅		6 23.6 92°07	1°1/23.6	17		5						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
173604	2001 <i>DS</i> ₁₀₁		6 23.6 119°45	2°7/23.3	18		367107	2006 <i>RK</i> ₄₀		6 23.6 255°53	0°1/23.6	17	
5 21	18 40.86	-28 16.3	1.635	2.503	14.8	20.2	5 21	18 38.24	-22 43.5	1.735	2.603	14.1	21.4
5 31	18 34.28	-28 57.4	1.576	2.515	11.0	20.0	5 31	18 32.45	-22 55.4	1.645	2.586	10.5	21.1
6 10	18 25.05	-29 35.6	1.538	2.526	6.9	19.8	6 10	18 24.11	-23 9.0	1.579	2.569	6.3	20.8
6 20	18 14.08	-30 6.5	1.526	2.537	3.2	19.6	6 20	18 13.92	-23 22.3	1.537	2.552	1.7	20.5
6 30	18 2.67	-30 27.0	1.541	2.547	4.2	19.6	6 30	18 2.98	-23 33.5	1.523	2.534	3.1	20.5
7 10	17 52.24	-30 36.3	1.581	2.557	8.1	19.9	7 10	17 52.60	-23 41.9	1.534	2.515	7.8	20.8
7 20	17 43.90	-30 36.3	1.646	2.567	12.0	20.2	7 20	17 43.93	-23 47.8	1.571	2.496	12.2	21.0
7 30	17 38.44	-30 29.9	1.732	2.576	15.3	20.4	7 30	17 37.88	-23 52.5	1.628	2.477	15.9	21.2
291752	2006 <i>KV</i> ₅		6 23.6 328°38	0°6/23.6	16		165203	2000 <i>RX</i> ₇₂		6 23.6 292°72	5°6/23.3	18	
5 21	18 34.36	-21 49.1	1.730	2.604	13.8	21.2	5 21	18 39.72	-34 0.2	1.356	2.232	16.8	19.6
5 31	18 29.36	-21 48.7	1.656	2.599	10.2	20.9	5 31	18 34.48	-34 41.0	1.276	2.215	13.1	19.3
6 10	18 22.10	-21 50.0	1.603	2.595	6.2	20.7	6 10	18 25.75	-35 14.0	1.216	2.198	9.0	19.0
6 20	18 13.30	-21 52.0	1.576	2.590	1.8	20.4	6 20	18 14.42	-35 32.5	1.179	2.182	5.9	18.8
6 30	18 4.04	-21 53.8	1.575	2.586	3.0	20.5	6 30	18 2.07	-35 31.5	1.166	2.165	6.7	18.8
7 10	17 55.46	-21 55.3	1.600	2.582	7.4	20.7	7 10	17 50.61	-35 10.7	1.176	2.149	10.6	19.0
7 20	17 48.56	-21 56.9	1.649	2.579	11.4	20.9	7 20	17 41.67	-34 33.8	1.208	2.133	15.1	19.2
7 30	17 44.07	-21 59.3	1.720	2.575	14.9	21.2	7 30	17 36.41	-33 47.4	1.259	2.117	19.1	19.4
241756	2001 <i>DD</i> ₁₈		6 23.6 130°55	4°8/24.5	18		293369	2007 <i>ER</i> ₁₃		6 23.6 252°05	3°7/23.9	18	
5 21	18 35.22	-7 55.2	2.204	3.039	12.7	20.7	5 21	18 31.99	-11 8.4	2.518	3.361	11.0	21.2
5 31	18 29.34	-7 58.3	2.139	3.051	10.0	20.5	5 31	18 26.99	-10 59.0	2.429	3.349	8.6	21.0
6 10	18 21.79	-8 12.9	2.097	3.062	7.2	20.4	6 10	18 20.45	-10 57.2	2.365	3.337	6.0	20.9
6 20	18 13.18	-8 39.1	2.082	3.073	5.0	20.3	6 20	18 12.87	-11 3.6	2.326	3.324	4.0	20.7
6 30	18 4.30	-9 16.2	2.093	3.084	5.2	20.3	6 30	18 4.91	-11 18.2	2.316	3.311	4.3	20.7
7 10	17 56.00	-10 2.4	2.133	3.094	7.4	20.4	7 10	17 57.33	-11 40.5	2.333	3.298	6.6	20.8
7 20	17 48.99	-10 55.2	2.198	3.104	10.1	20.6	7 20	17 50.77	-12 9.4	2.376	3.285	9.3	21.0
7 30	17 43.83	-11 52.3	2.287	3.113	12.7	20.8	7 30	17 45.81	-12 43.5	2.443	3.271	11.9	21.1
255219	2005 <i>UZ</i> ₃₈₄		6 23.6 285°10	2°2/23.4	18		342500	2008 <i>UX</i> ₁₇₃		6 23.6 355°20	6°3/22.7	18	
5 21	18 34.37	-28 34.5	2.236	3.098	11.5	20.6	5 21	18 33.02	-14 19.9	1.331	2.212	16.7	19.4
5 31	18 29.11	-29 3.1	2.151	3.087	8.6	20.4	5 31	18 28.68	-12 49.1	1.267	2.208	12.9	19.2
6 10	18 21.86	-29 29.4	2.090	3.076	5.4	20.2	6 10	18 21.80	-11 23.3	1.223	2.204	9.1	19.0
6 20	18 13.24	-29 51.0	2.055	3.065	2.5	20.0	6 20	18 13.26	-10 7.5	1.202	2.202	6.4	18.8
6 30	18 4.13	-30 5.5	2.048	3.054	3.3	20.0	6 30	18 4.28	-9 6.7	1.205	2.200	7.3	18.9
7 10	17 55.52	-30 12.5	2.068	3.043	6.6	20.2	7 10	17 56.20	-8 24.2	1.232	2.200	10.8	19.0
7 20	17 48.27	-30 12.6	2.114	3.032	9.9	20.4	7 20	17 50.10	-8 0.8	1.280	2.200	14.7	19.3
7 30	17 43.10	-30 7.6	2.182	3.021	12.8	20.5	7 30	17 46.73	-7 55.0	1.346	2.202	18.3	19.5
494528	2017 <i>AA</i> ₆		6 23.6 248°74	2°6/24.2	17		477016	2008 <i>YT</i> ₁₅₉		6 23.6 202°99	2°1/23.8	17	
5 21	18 33.94	-11 53.8	3.034	3.868	9.6	22.1	5 21	18 34.21	-17 4.3	2.070	2.930	12.4	21.9
5 31	18 28.25	-12 18.0	2.931	3.847	7.4	21.9	5 31	18 28.87	-17 2.5	1.994	2.929	9.3	21.7
6 10	18 21.15	-12 49.6	2.852	3.827	5.0	21.7	6 10	18 21.65	-17 5.5	1.942	2.928	5.8	21.4
6 20	18 13.04	-13 28.3	2.803	3.805	2.9	21.5	6 20	18 13.20	-17 13.2	1.916	2.926	2.6	21.2
6 30	18 4.51	-14 12.9	2.783	3.784	3.1	21.5	6 30	18 4.37	-17 24.9	1.917	2.925	3.3	21.3
7 10	17 56.21	-15 2.0	2.793	3.761	5.5	21.7	7 10	17 56.11	-17 40.1	1.946	2.923	6.7	21.5
7 20	17 48.73	-15 54.0	2.831	3.739	8.1	21.8	7 20	17 49.21	-17 58.2	1.999	2.921	10.2	21.7
7 30	17 42.62	-16 47.4	2.895	3.715	10.5	21.9	7 30	17 44.31	-18 18.6	2.076	2.919	13.2	21.9
482176	2010 <i>TQ</i> ₁₈₉		6 23.6 243°69	6°4/23.1	18		308593	2005 <i>VZ</i> ₃₁		6 23.6 152°97	0°4/23.6	18	
5 21	18 39.00	-43 34.9	2.604	3.425	11.4	21.7	5 21	18 32.99	-21 53.9	2.735	3.591	9.9	22.0
5 31	18 32.57	-44 17.3	2.523	3.416	9.4	21.5	5 31	18 27.56	-21 56.2	2.661	3.596	7.3	21.8
6 10	18 23.93	-44 48.7	2.465	3.406	7.5	21.4	6 10	18 20.69	-21 59.2	2.613	3.601	4.3	21.7
6 20	18 13.81	-45 4.9	2.433	3.397	6.4	21.3	6 20	18 12.92	-22 2.4	2.592	3.606	1.2	21.4
6 30	18 3.20	-45 3.4	2.427	3.387	6.7	21.3	6 30	18 4.91	-22 5.0	2.599	3.610	2.1	21.5
7 10	17 53.22	-44 44.1	2.448	3.377	8.2	21.4	7 10	17 57.37	-22 7.1	2.636	3.614	5.1	21.7
7 20	17 44.82	-44 9.5	2.493	3.366	10.3	21.5	7 20	17 50.91	-22 8.8	2.699	3.618	8.0	21.9
7 30	17 38.75	-43 23.9	2.560	3.356	12.3	21.6	7 30	17 46.03	-22 10.6	2.787	3.622	10.4	22.1
127538	2002 <i>XV</i> ₄₅		6 23.6 47°89	3°5/22.7	18		412037	2013 <i>CW</i> ₁₆₃		6 23.6 350°11	5°2/23.4	17	
5 21	18 45.63	-25 2.7	0.958	1.850	20.7	18.8	5 21	18 34.19	-31 24.2	0.973	1.877	19.4	20.1
5 31	18 38.61	-22 47.2	0.902	1.855	15.4	18.5	5 31	18 30.93	-32 4.5	0.914	1.870	14.8	19.8
6 10	18 27.86	-20 19.0	0.867	1.860	9.4	18.2	6 10	18 23.81	-32 37.9	0.872	1.864	9.8	19.5
6 20	18 14.84	-17 45.3	0.853	1.866	4.0	17.9	6 20	18 13.92	-32 57.7	0.850	1.859	5.7	19.2
6 30	18 1.62	-15 17.5	0.864	1.872	6.2	18.0	6 30	18 3.12	-32 58.7	0.849	1.855	6.7	19.3
7 10	17 50.25	-13 7.6	0.899	1.878	12.1	18.4	7 10	17 53.61	-32 41.2	0.868	1.853	11.5	19.5
7 20	17 42.12	-11 23.4	0.954	1.884	17.5	18.7	7 20	17 47.13	-32 9.5	0.907	1.852	16.6	19.8
7 30	17 37.94	-10 7.4	1.026	1.891	22.0	19.0	7 30	17 44.74	-31 29.9	0.962	1.852	21.1	20.1
58148	1987 <i>SH</i> ₄		6 23.6 317°93	10°4/21.8	18		92215	2000 <i>AM</i> ₁₀		6 23.6 323°11	0°5/23.7	18	
5 21	18 39.45	-43 12.8	1.476	2.331	16.8	17.0	5 21	18 35.11	-27 29.4	1.805	2.677	13.4	18.4
5 31	18 34.66	-44 44.6	1.399	2.310	14.2	16.8	5 31	18 29.99	-26 45.9	1.712	2.654	10.0	18.1
6 10	18 26.08	-46 4.1	1.341	2.291	11.7	16.6	6 10	18 22.53	-25 55.2	1.642	2.633	6.1	17.9
6 20	18 14.56	-47 1.1	1.305	2.272	10.4	16.4	6 20	18 13.49	-24 57.1	1.597	2.612	1.7	17.5
6 30	18 1.73	-47 27.7	1.292	2.253	11.1	16.4	6 30	18 3.91	-23 53.0	1.580	2.591	2.9	17.6
7 10	17 49.74	-47 21.8	1.300	2.235	13.4	16.5	7 10	17 55.02	-22 46.1	1.589	2.571	7.4	17.8
7 20	17 40.47	-46 47.2	1.329	2.218	16.5	16.6	7 20	17 47.81	-21 40.1	1.622	2.551	11.6	18.0
7 30	17 35.22	-45 51.9	1.375	2.202	19.5	16.8	7 30	17 43.06	-20 38.9	1.678	2.533	15.3	18.2
144435	2004 <i>EV</i> ₃₃		6 23.6 226°62	0°7/23.6	18		167765 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
498341	2007 VY ₂₄₃		6 23.6 224°62	1.7°/23.5	17		318440	2005 CS ₄₅		6 23.6 87°65	7°1/24.8	17	
5 21	18 40.49	-26 58.2	1.800	2.664	13.9	22.6	5 21	18 37.65	-6 4.9	1.481	2.329	17.1	20.7
5 31	18 34.04	-27 17.0	1.716	2.654	10.4	22.4	5 31	18 31.71	-5 50.3	1.431	2.347	13.6	20.5
6 10	18 25.02	-27 33.7	1.655	2.643	6.4	22.1	6 10	18 23.45	-5 53.3	1.401	2.365	10.1	20.4
6 20	18 14.18	-27 45.4	1.620	2.632	2.4	21.8	6 20	18 13.75	-6 15.2	1.394	2.382	7.5	20.2
6 30	18 2.69	-27 49.7	1.612	2.621	3.5	21.9	6 30	18 3.78	-6 55.3	1.412	2.400	7.5	20.3
7 10	17 51.86	-27 46.3	1.630	2.608	7.7	22.1	7 10	17 54.75	-7 50.5	1.455	2.417	10.1	20.5
7 20	17 42.85	-27 36.7	1.674	2.595	11.8	22.3	7 20	17 47.63	-8 56.5	1.521	2.433	13.3	20.7
7 30	17 36.52	-27 23.6	1.739	2.581	15.4	22.5	7 30	17 43.10	-10 8.9	1.607	2.450	16.4	21.0
384062	2008 UD ₃₀₄		6 23.6 176°27	1°2/23.7	17		250868	2005 UY ₃₈₈		6 23.6 217°28	2°6/23.8	18	
5 21	18 35.39	-19 50.6	1.952	2.817	12.9	21.6	5 21	18 32.28	-14 19.4	2.658	3.506	10.4	21.2
5 31	18 29.85	-19 51.0	1.879	2.818	9.6	21.3	5 31	18 27.13	-14 14.2	2.574	3.500	7.9	21.0
6 10	18 22.29	-19 54.4	1.829	2.818	5.8	21.1	6 10	18 20.52	-14 14.4	2.515	3.494	5.2	20.8
6 20	18 13.40	-20 0.0	1.805	2.819	2.0	20.9	6 20	18 12.96	-14 20.0	2.483	3.488	2.9	20.7
6 30	18 4.13	-20 7.1	1.809	2.819	2.9	20.9	6 30	18 5.08	-14 30.9	2.479	3.481	3.3	20.7
7 10	17 55.49	-20 15.2	1.839	2.819	6.8	21.2	7 10	17 57.60	-14 46.7	2.503	3.475	5.8	20.9
7 20	17 48.35	-20 24.4	1.894	2.819	10.5	21.4	7 20	17 51.12	-15 6.5	2.554	3.467	8.6	21.0
7 30	17 43.39	-20 34.9	1.972	2.818	13.7	21.6	7 30	17 46.19	-15 29.8	2.629	3.460	11.1	21.2
377583	2005 NP ₄₁		6 23.6 285°73	0°9/23.6	17		342633	2008 UB ₃₅₂		6 23.6 278°54	4°4/24.3	18	
5 21	18 36.46	-21 14.3	1.591	2.465	14.8	21.9	5 21	18 34.97	-10 13.6	1.885	2.735	13.9	20.7
5 31	18 31.35	-21 12.7	1.500	2.444	11.1	21.6	5 31	18 29.80	-10 24.0	1.792	2.716	10.9	20.4
6 10	18 23.57	-21 13.7	1.431	2.422	6.8	21.3	6 10	18 22.47	-10 46.9	1.721	2.696	7.6	20.2
6 20	18 13.84	-21 16.0	1.386	2.400	2.1	21.0	6 20	18 13.55	-11 22.8	1.676	2.676	4.8	20.0
6 30	18 3.27	-21 18.7	1.366	2.378	3.4	21.0	6 30	18 3.96	-12 10.7	1.657	2.656	5.1	19.9
7 10	17 53.25	-21 21.4	1.373	2.355	8.3	21.2	7 10	17 54.75	-13 8.5	1.664	2.636	8.2	20.1
7 20	17 45.00	-21 24.7	1.403	2.333	13.0	21.4	7 20	17 46.89	-14 13.2	1.697	2.615	11.8	20.3
7 30	17 39.49	-21 29.3	1.453	2.311	17.0	21.6	7 30	17 41.22	-15 21.8	1.752	2.595	15.2	20.4
188177	2002 JH ₄₇		6 23.6 103°00	2°9/23.5	18		152840	1999 VD ₁₀₃		6 23.6 250°67	0°1/23.6	18	
5 21	18 33.20	-15 14.8	2.504	3.355	10.9	20.1	5 21	18 33.42	-23 28.3	2.589	3.447	10.3	21.3
5 31	18 27.70	-14 39.8	2.440	3.368	8.2	19.9	5 31	18 28.12	-23 33.2	2.499	3.435	7.6	21.1
6 10	18 20.76	-14 8.8	2.401	3.381	5.4	19.8	6 10	18 21.19	-23 38.1	2.433	3.422	4.6	20.9
6 20	18 12.97	-13 42.9	2.389	3.393	3.2	19.7	6 20	18 13.16	-23 42.1	2.395	3.409	1.2	20.6
6 30	18 5.02	-13 22.9	2.406	3.406	3.7	19.7	6 30	18 4.75	-23 44.3	2.385	3.396	2.2	20.7
7 10	17 57.63	-13 9.2	2.450	3.418	6.1	19.9	7 10	17 56.74	-23 44.7	2.404	3.383	5.5	20.9
7 20	17 51.40	-13 1.9	2.521	3.430	8.8	20.1	7 20	17 49.85	-23 43.6	2.449	3.369	8.6	21.1
7 30	17 46.81	-13 0.7	2.615	3.442	11.2	20.3	7 30	17 44.65	-23 41.9	2.518	3.355	11.3	21.2
281	Lucretia		6 23.6 234°69	3°5/23.4	18		24899	Dominiona		6 23.6 321°74	1°4/23.8	18	
5 21	18 41.63	-29 41.8	1.539	2.408	15.5	15.6	5 21	18 34.34	-19 9.6	1.264	2.153	16.9	18.8
5 31	18 35.39	-30 20.7	1.460	2.398	11.7	15.3	5 31	18 30.22	-19 26.5	1.189	2.140	12.7	18.5
6 10	18 26.08	-30 56.4	1.402	2.389	7.5	15.1	6 10	18 23.11	-19 51.1	1.133	2.127	7.8	18.2
6 20	18 14.54	-31 23.6	1.369	2.378	3.9	14.9	6 20	18 13.79	-20 21.7	1.100	2.114	2.6	17.8
6 30	18 2.17	-31 38.2	1.362	2.367	4.9	14.9	6 30	18 3.61	-20 55.9	1.091	2.102	3.8	17.9
7 10	17 50.58	-31 39.2	1.380	2.356	9.1	15.1	7 10	17 54.16	-21 31.2	1.105	2.091	9.3	18.1
7 20	17 41.19	-31 28.8	1.422	2.344	13.4	15.3	7 20	17 46.83	-22 5.9	1.140	2.081	14.4	18.4
7 30	17 35.00	-31 11.2	1.484	2.332	17.3	15.5	7 30	17 42.68	-22 39.6	1.195	2.071	18.8	18.6
195933	2002 RL ₁₁₉		6 23.6 265°03	1°7/23.8	18		23220	Yalemichaels		6 23.6 238°68	0°7/23.7	18	
5 21	18 34.35	-18 9.5	2.026	2.889	12.6	20.2	5 21	18 35.97	-20 58.5	1.882	2.748	13.2	19.0
5 31	18 29.14	-18 12.0	1.941	2.878	9.4	20.0	5 31	18 30.48	-21 8.5	1.803	2.743	9.8	18.8
6 10	18 21.94	-18 19.0	1.879	2.867	5.8	19.7	6 10	18 22.80	-21 21.4	1.747	2.737	5.9	18.6
6 20	18 13.36	-18 30.0	1.844	2.856	2.3	19.5	6 20	18 13.64	-21 35.7	1.717	2.731	1.7	18.3
6 30	18 4.29	-18 44.2	1.835	2.844	3.1	19.5	6 30	18 3.97	-21 50.1	1.714	2.725	2.8	18.3
7 10	17 55.72	-19 0.7	1.854	2.833	6.9	19.7	7 10	17 54.91	-22 3.8	1.738	2.719	7.0	18.6
7 20	17 48.51	-19 19.2	1.898	2.821	10.5	19.9	7 20	17 47.40	-22 16.7	1.787	2.713	10.9	18.8
7 30	17 43.39	-19 39.3	1.964	2.810	13.7	20.1	7 30	17 42.19	-22 29.3	1.858	2.707	14.3	19.0
131955	2002 CS ₃₆		6 23.6 72°24	0°2/23.6	17		505729	2015 BV ₂		6 23.6 246°50	0°1/23.6	17	
5 21	18 38.76	-22 33.5	1.326	2.208	16.7	20.0	5 21	18 38.85	-24 20.3	1.680	2.550	14.4	22.2
5 31	18 33.06	-22 51.1	1.270	2.218	12.3	19.8	5 31	18 32.89	-24 8.4	1.597	2.539	10.7	21.9
6 10	18 24.50	-23 11.1	1.235	2.228	7.4	19.5	6 10	18 24.38	-23 54.8	1.537	2.528	6.5	21.6
6 20	18 14.06	-23 30.8	1.223	2.238	2.0	19.2	6 20	18 14.09	-23 38.2	1.502	2.516	1.8	21.3
6 30	18 3.17	-23 47.6	1.236	2.248	3.5	19.4	6 30	18 3.21	-23 18.3	1.493	2.504	3.1	21.4
7 10	17 53.38	-24 0.8	1.274	2.258	8.6	19.7	7 10	17 53.05	-22 55.9	1.510	2.492	7.8	21.6
7 20	17 45.89	-24 10.8	1.334	2.268	13.2	20.0	7 20	17 44.74	-22 33.1	1.552	2.479	12.2	21.9
7 30	17 41.50	-24 19.1	1.415	2.279	17.1	20.2	7 30	17 39.11	-22 12.2	1.616	2.466	15.9	22.1
32351	2000 QH ₁₁₆		6 23.6 163°40	0°4/23.6	18		140353	2001 TX ₁₈		6 23.6 200°76	0°8/23.8	18	
5 21	18 34.38	-24 23.1	2.673	3.528	10.1	19.3	5 21	18 34.44	-19 20.8	2.507	3.362	10.7	20.0
5 31	18 28.67	-24 33.2	2.598	3.533	7.4	19.2	5 31	18 28.87	-19 45.6	2.426	3.359	8.0	19.8
6 10	18 21.42	-24 42.9	2.548	3.537	4.4	19.0	6 10	18 21.65	-20 14.1	2.369	3.356	4.8	19.6
6 20	18 13.18	-24 50.8	2.526	3.540	1.3	18.7	6 20	18 13.32	-20 44.8	2.339	3.352	1.5	19.4
6 30	18 4.68	-24 56.1	2.533	3.543	2.1	18.8	6 30	18 4.60	-21 16.3	2.338	3.349	2.3	19.4
7 10	17 56.66	-24 58.7	2.568	3.546	5.3	19.0	7 10	17 56.31	-21 47.4	2.366	3.345	5.6	19.6
7 20	17 49.80	-24 58.9	2.631	3.549	8.2	19.2	7 20	17 49.15	-22 17.1	2.421	3.340	8.7	19.8
7 30	17 44.60	-24 57.6	2.717	3.551	10.7	19.4	7 30	17 43.71	-22 45.5	2.500	3.336	11.5	20.0
90294	2003 EX ₂₆		6 23.6 15°94	1°5/23.7	17		240398	2003 UB ₁₂₁		6 23.6 198°69	6°8/23.7	18	
5 21	18 34.72												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
36550	2000 <i>QM</i> ₁₀₁		6 23.6 270°04	0°4/23.6	18		140982	2001 <i>WJ</i> ₆		6 23.6 194°84	0°1/23.7	18	
5 21	18 36.68	-22 56.3	1.822	2.690	13.5	19.0	5 21	18 34.41	-22 43.6	2.285	3.146	11.4	20.8
5 31	18 31.26	-23 19.7	1.733	2.674	10.1	18.8	5 31	18 28.98	-22 52.0	2.208	3.145	8.4	20.6
6 10	18 23.43	-23 45.6	1.667	2.657	6.1	18.5	6 10	18 21.76	-23 1.2	2.155	3.144	5.0	20.4
6 20	18 13.87	-24 11.5	1.626	2.641	1.7	18.2	6 20	18 13.38	-23 10.0	2.129	3.143	1.4	20.1
6 30	18 3.60	-24 35.1	1.613	2.624	3.0	18.2	6 30	18 4.64	-23 17.4	2.131	3.142	2.4	20.2
7 10	17 53.83	-24 55.0	1.626	2.607	7.4	18.5	7 10	17 56.44	-23 23.1	2.161	3.140	6.0	20.4
7 20	17 45.66	-25 11.2	1.663	2.589	11.6	18.7	7 20	17 49.53	-23 27.4	2.216	3.139	9.3	20.6
7 30	17 39.95	-25 24.5	1.723	2.572	15.2	18.9	7 30	17 44.52	-23 30.9	2.295	3.137	12.2	20.8
46131	2001 <i>FW</i> ₄₇		6 23.6 74°27	2°2/23.7	18		186538	2002 <i>VP</i> ₁₀₉		6 23.6 281°92	3°5/23.4	18	
5 21	18 35.40	-18 8.7	1.808	2.675	13.7	19.0	5 21	18 38.70	-30 3.1	1.588	2.460	14.9	20.2
5 31	18 29.86	-17 51.7	1.748	2.686	10.2	18.8	5 31	18 33.28	-30 40.1	1.501	2.441	11.4	19.9
6 10	18 22.30	-17 38.8	1.711	2.698	6.3	18.6	6 10	18 24.90	-31 14.0	1.437	2.423	7.4	19.6
6 20	18 13.49	-17 30.0	1.698	2.709	2.7	18.4	6 20	18 14.34	-31 39.8	1.396	2.405	3.9	19.4
6 30	18 4.41	-17 25.4	1.713	2.721	3.5	18.5	6 30	18 2.87	-31 53.8	1.381	2.386	4.9	19.4
7 10	17 56.12	-17 25.0	1.754	2.733	7.2	18.7	7 10	17 52.04	-31 54.6	1.391	2.367	9.0	19.6
7 20	17 49.45	-17 28.7	1.820	2.745	10.8	19.0	7 20	17 43.22	-31 44.0	1.425	2.348	13.3	19.8
7 30	17 45.02	-17 36.5	1.908	2.756	14.0	19.2	7 30	17 37.45	-31 25.8	1.478	2.330	17.1	20.0
251816	1999 <i>TO</i> ₈₁		6 23.6 226°31	1°2/23.6	17		44290	1998 <i>QA</i> ₈₇		6 23.6 187°03	0°8/23.6	18	
5 21	18 40.42	-26 16.0	2.123	2.978	12.4	22.9	5 21	18 36.61	-22 17.2	2.282	3.140	11.5	19.1
5 31	18 33.71	-26 28.0	2.031	2.964	9.2	22.7	5 31	18 30.51	-21 52.0	2.204	3.139	8.5	18.9
6 10	18 24.74	-26 38.2	1.962	2.950	5.6	22.5	6 10	18 22.62	-21 26.2	2.151	3.139	5.1	18.7
6 20	18 14.20	-26 44.2	1.921	2.934	1.9	22.2	6 20	18 13.60	-20 59.7	2.124	3.138	1.6	18.4
6 30	18 3.07	-26 44.5	1.908	2.918	2.9	22.2	6 30	18 4.29	-20 32.9	2.126	3.136	2.6	18.5
7 10	17 52.46	-26 38.9	1.924	2.900	6.8	22.4	7 10	17 55.59	-20 7.0	2.156	3.134	6.1	18.7
7 20	17 43.37	-26 28.6	1.965	2.882	10.6	22.6	7 20	17 48.26	-19 43.2	2.213	3.132	9.5	18.9
7 30	17 36.57	-26 15.7	2.030	2.863	13.8	22.8	7 30	17 42.86	-19 22.8	2.293	3.129	12.3	19.1
25121	1998 <i>RL</i> ₇₅		6 23.6 105°33	6°1/24.0	18		260572	2005 <i>ET</i> ₂₆₃		6 23.6 147°99	0°8/23.6	17	
5 21	18 33.77	-7 7.4	1.989	2.829	13.7	18.8	5 21	18 40.51	-25 33.6	1.664	2.531	14.6	21.4
5 31	18 28.50	-6 35.4	1.925	2.836	10.9	18.7	5 31	18 33.97	-25 35.4	1.598	2.538	10.8	21.2
6 10	18 21.44	-6 15.1	1.883	2.844	8.2	18.5	6 10	18 24.92	-25 35.1	1.554	2.544	6.5	21.0
6 20	18 13.26	-6 8.6	1.866	2.851	6.3	18.4	6 20	18 14.25	-25 30.7	1.536	2.550	1.9	20.7
6 30	18 4.80	-6 16.4	1.876	2.858	6.5	18.4	6 30	18 3.19	-25 21.1	1.545	2.556	3.1	20.8
7 10	17 56.95	-6 37.9	1.911	2.865	8.6	18.6	7 10	17 53.06	-25 7.1	1.580	2.560	7.6	21.1
7 20	17 50.48	-7 11.1	1.970	2.872	11.3	18.8	7 20	17 44.92	-24 50.5	1.639	2.565	11.7	21.3
7 30	17 45.96	-7 53.3	2.051	2.878	13.9	19.0	7 30	17 39.50	-24 33.7	1.720	2.569	15.2	21.6
32988	1996 <i>XK</i> ₁₉		6 23.6 208°93	1°7/23.9	18		120657	1996 <i>UP</i> ₂		6 23.6 156°85	0°2/23.6	17	
5 21	18 33.69	-16 43.0	2.407	3.261	11.1	18.8	5 21	18 37.13	-23 32.8	1.902	2.768	13.1	20.8
5 31	18 28.35	-16 57.6	2.326	3.257	8.3	18.6	5 31	18 31.25	-23 38.2	1.831	2.771	9.7	20.6
6 10	18 21.36	-17 17.5	2.269	3.254	5.2	18.4	6 10	18 23.22	-23 43.7	1.784	2.774	5.8	20.3
6 20	18 13.26	-17 41.8	2.240	3.251	2.2	18.2	6 20	18 13.79	-23 47.8	1.762	2.776	1.6	20.1
6 30	18 4.78	-18 9.4	2.239	3.247	2.8	18.2	6 30	18 3.97	-23 49.5	1.768	2.779	2.7	20.1
7 10	17 56.75	-18 39.2	2.266	3.243	5.9	18.4	7 10	17 54.86	-23 48.5	1.800	2.781	6.9	20.4
7 20	17 49.87	-19 10.1	2.319	3.239	9.1	18.6	7 20	17 47.39	-23 45.8	1.858	2.783	10.6	20.6
7 30	17 44.72	-19 41.6	2.397	3.234	11.8	18.8	7 30	17 42.24	-23 42.6	1.938	2.785	13.9	20.9
330314	2006 <i>UF</i> ₃₅		6 23.6 208°14	2°8/23.4	17		91985	1999 <i>VO</i> ₁₁₃		6 23.6 60°50	2°6/23.4	18	
5 21	18 39.06	-28 39.8	1.575	2.447	15.0	21.7	5 21	18 34.92	-30 0.2	2.244	3.105	11.6	18.6
5 31	18 33.27	-29 14.3	1.505	2.447	11.3	21.4	5 31	18 29.46	-30 31.6	2.176	3.111	8.7	18.4
6 10	18 24.69	-29 46.0	1.458	2.446	7.1	21.2	6 10	18 22.09	-30 59.4	2.132	3.116	5.5	18.3
6 20	18 14.21	-30 10.6	1.434	2.445	3.3	21.0	6 20	18 13.48	-31 20.8	2.114	3.122	2.9	18.1
6 30	18 3.13	-30 24.7	1.437	2.444	4.3	21.0	6 30	18 4.51	-31 34.0	2.123	3.127	3.6	18.2
7 10	17 52.91	-30 27.9	1.465	2.443	8.4	21.3	7 10	17 56.17	-31 38.5	2.160	3.133	6.5	18.3
7 20	17 44.77	-30 21.8	1.517	2.442	12.6	21.5	7 20	17 49.26	-31 35.5	2.222	3.139	9.5	18.5
7 30	17 39.58	-30 9.7	1.589	2.441	16.1	21.7	7 30	17 44.41	-31 26.9	2.307	3.144	12.2	18.7
443525	2014 <i>JP</i> ₆₅		6 23.6 29°40	5°9/23.9	16		199344	2006 <i>BL</i> ₁₅₈		6 23.6 178°78	1°6/23.8	17	
5 21	18 31.48	-8 37.5	1.861	2.713	13.9	20.8	5 21	18 36.24	-18 28.3	2.147	3.004	12.2	21.4
5 31	18 26.90	-7 59.1	1.802	2.722	11.0	20.6	5 31	18 30.35	-18 27.6	2.071	3.005	9.1	21.2
6 10	18 20.53	-7 31.9	1.766	2.732	8.1	20.5	6 10	18 22.60	-18 30.6	2.020	3.006	5.6	21.0
6 20	18 13.02	-7 18.0	1.753	2.742	6.1	20.4	6 20	18 13.62	-18 36.6	1.995	3.007	2.2	20.7
6 30	18 5.26	-7 18.4	1.766	2.753	6.4	20.4	6 30	18 4.27	-18 45.0	1.998	3.007	2.9	20.8
7 10	17 58.17	-7 32.4	1.804	2.764	8.6	20.6	7 10	17 55.50	-18 55.3	2.029	3.006	6.5	21.0
7 20	17 52.49	-7 58.4	1.866	2.775	11.5	20.8	7 20	17 48.11	-19 7.4	2.086	3.006	9.9	21.2
7 30	17 48.81	-8 33.8	1.949	2.787	14.1	21.0	7 30	17 42.72	-19 21.3	2.166	3.004	12.9	21.4
387086	2012 <i>TP</i> ₁₀₁		6 23.6 181°20	1°3/23.7	17		315313	2007 <i>TL</i> ₂₅₇		6 23.7 242°30	1°4/23.6	17	
5 21	18 35.39	-19 58.0	2.150	3.010	12.0	21.6	5 21	18 39.04	-25 37.5	1.466	2.343	15.7	21.7
5 31	18 29.72	-19 46.6	2.075	3.011	8.9	21.4	5 31	18 33.38	-25 57.3	1.395	2.339	11.7	21.5
6 10	18 22.20	-19 37.3	2.023	3.011	5.4	21.2	6 10	18 24.83	-26 16.4	1.344	2.336	7.1	21.2
6 20	18 13.49	-19 29.5	1.998	3.011	2.0	20.9	6 20	18 14.30	-26 31.7	1.318	2.332	2.3	20.9
6 30	18 4.44	-19 23.4	2.001	3.011	2.8	21.0	6 30	18 3.10	-26 40.6	1.317	2.328	3.6	21.0
7 10	17 55.99	-19 19.1	2.032	3.010	6.4	21.2	7 10	17 52.77	-26 42.4	1.341	2.323	8.5	21.3
7 20	17 48.92	-19 16.8	2.088	3.009	9.8	21.4	7 20	17 44.58	-26 38.8	1.389	2.319	13.1	21.5
7 30	17 43.83	-19 17.1	2.167	3.008	12.8	21.6	7 30	17 39.43	-26 32.1	1.456	2.315	17.0	21.7
468555	2006 <i>UB</i> ₁₅		6 23.6 189°46	2°0/23.7	17		21177						

EPHEMERIDES

6 23.7

6 23.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
350321	2012 <i>UZ</i> ₆₅		6 23.7 335°63	2°2/23.7	17		437255	2012 <i>XV</i> ₉₃		6 23.7 231°72	1°1/23.6	17	
5 21	18 34.11	-18 11.1	1.801	2.670	13.6	21.2	5 21	18 36.23	-25 27.9	2.126	2.989	12.1	21.6
5 31	18 29.10	-17 56.2	1.727	2.667	10.2	21.0	5 31	18 30.58	-25 50.4	2.044	2.982	9.0	21.4
6 10	18 21.99	-17 45.2	1.677	2.665	6.4	20.7	6 10	18 22.88	-26 12.6	1.986	2.975	5.4	21.2
6 20	18 13.48	-17 38.4	1.651	2.662	2.8	20.5	6 20	18 13.78	-26 32.1	1.955	2.968	1.8	20.9
6 30	18 4.55	-17 35.8	1.652	2.660	3.6	20.6	6 30	18 4.20	-26 47.0	1.951	2.961	2.8	21.0
7 10	17 56.28	-17 37.4	1.678	2.658	7.4	20.8	7 10	17 55.15	-26 56.8	1.975	2.954	6.5	21.2
7 20	17 49.57	-17 43.1	1.730	2.656	11.2	21.0	7 20	17 47.54	-27 1.8	2.024	2.946	10.1	21.4
7 30	17 45.12	-17 52.7	1.802	2.654	14.5	21.2	7 30	17 42.06	-27 3.4	2.097	2.938	13.1	21.6
508024	2015 <i>BX</i> ₄₂₁		6 23.7 27°31	1°7/23.7	17		297599	2001 <i>SU</i> ₂₀₀		6 23.7 265°54	1°0/23.7	18	
5 21	18 36.30	-27 28.5	1.373	2.258	16.1	20.6	5 21	18 34.21	-20 20.6	2.115	2.979	12.1	21.5
5 31	18 31.27	-27 30.0	1.317	2.265	11.9	20.4	5 31	18 29.01	-20 18.9	2.032	2.970	9.0	21.3
6 10	18 23.47	-27 27.6	1.281	2.273	7.3	20.2	6 10	18 21.90	-20 19.6	1.973	2.962	5.5	21.1
6 20	18 13.91	-27 18.9	1.268	2.282	2.6	19.9	6 20	18 13.51	-20 22.0	1.940	2.953	1.8	20.8
6 30	18 3.97	-27 3.0	1.280	2.291	3.7	20.0	6 30	18 4.68	-20 25.5	1.934	2.944	2.7	20.9
7 10	17 55.14	-26 41.1	1.317	2.301	8.4	20.3	7 10	17 56.36	-20 29.9	1.956	2.935	6.5	21.1
7 20	17 48.54	-26 15.8	1.376	2.312	12.8	20.6	7 20	17 49.39	-20 35.2	2.003	2.927	10.0	21.3
7 30	17 44.91	-25 50.3	1.455	2.323	16.5	20.8	7 30	17 44.42	-20 41.9	2.072	2.918	13.1	21.5
160860	2001 <i>FV</i> ₁₄₂		6 23.7 328°62	4°2/23.9	18		215346	2001 <i>VJ</i> ₁₁₁		6 23.7 264°26	3°7/23.1	18	
5 21	18 33.67	-12 54.9	1.790	2.651	14.0	19.8	5 21	18 36.76	-32 8.0	2.214	3.070	11.9	20.9
5 31	18 28.77	-12 37.8	1.717	2.648	10.8	19.6	5 31	18 31.11	-32 56.5	2.130	3.060	9.1	20.7
6 10	18 21.80	-12 29.3	1.666	2.646	7.3	19.4	6 10	18 23.28	-33 41.2	2.070	3.049	6.1	20.5
6 20	18 13.45	-12 30.4	1.640	2.643	4.5	19.2	6 20	18 13.91	-34 18.2	2.037	3.039	3.9	20.3
6 30	18 4.68	-12 41.3	1.640	2.641	4.9	19.2	6 30	18 3.95	-34 44.2	2.031	3.028	4.5	20.3
7 10	17 56.52	-13 1.2	1.665	2.638	8.1	19.4	7 10	17 54.48	-34 58.2	2.052	3.017	7.3	20.5
7 20	17 49.87	-13 28.8	1.715	2.636	11.6	19.6	7 20	17 46.48	-35 1.1	2.098	3.007	10.4	20.7
7 30	17 45.42	-14 2.3	1.786	2.634	14.8	19.8	7 30	17 40.72	-34 55.2	2.167	2.996	13.2	20.8
105463	2000 <i>QT</i> ₂₀₆		6 23.7 263°61	4°7/23.3	18		436312	2010 <i>EN</i> ₁₃₃		6 23.7 170°02	5°3/22.9	17	
5 21	18 37.40	-36 26.3	2.262	3.110	12.0	19.9	5 21	18 39.44	-35 58.5	2.040	2.891	13.0	21.1
5 31	18 31.55	-37 1.9	2.180	3.101	9.4	19.7	5 31	18 33.25	-36 56.3	1.970	2.892	10.1	20.9
6 10	18 23.49	-37 29.9	2.122	3.091	6.7	19.5	6 10	18 24.60	-37 46.8	1.923	2.893	7.3	20.8
6 20	18 13.93	-37 46.4	2.089	3.082	4.9	19.4	6 20	18 14.27	-38 24.9	1.902	2.894	5.4	20.6
6 30	18 3.85	-37 48.9	2.083	3.072	5.3	19.4	6 30	18 3.38	-38 47.0	1.907	2.894	5.9	20.7
7 10	17 54.37	-37 37.2	2.104	3.062	7.6	19.5	7 10	17 53.19	-38 52.4	1.939	2.895	8.4	20.8
7 20	17 46.46	-37 13.5	2.149	3.052	10.4	19.6	7 20	17 44.79	-38 43.2	1.995	2.895	11.3	21.0
7 30	17 40.86	-36 41.3	2.218	3.043	13.1	19.8	7 30	17 38.98	-38 23.3	2.073	2.895	14.0	21.2
123549	2000 <i>XF</i> ₂₅		6 23.7 304°54	7°4/22.2	18		302244	2001 <i>WN</i> ₁₀₀		6 23.7 139°62	2°7/23.4	17	
5 21	18 39.06	-37 5.5	1.596	2.459	15.3	18.7	5 21	18 42.69	-28 17.7	1.636	2.501	14.9	21.6
5 31	18 33.96	-38 28.9	1.511	2.438	12.3	18.5	5 31	18 35.76	-28 56.8	1.574	2.511	11.2	21.4
6 10	18 25.58	-39 46.2	1.448	2.417	9.3	18.2	6 10	18 26.12	-29 33.0	1.535	2.521	7.0	21.2
6 20	18 14.63	-40 49.2	1.409	2.397	7.5	18.1	6 20	18 14.67	-30 1.7	1.520	2.531	3.2	20.9
6 30	18 2.49	-41 30.9	1.394	2.376	8.3	18.1	6 30	18 2.75	-30 19.8	1.533	2.540	4.1	21.0
7 10	17 50.92	-41 48.4	1.403	2.356	11.2	18.2	7 10	17 51.80	-30 26.6	1.572	2.548	8.2	21.3
7 20	17 41.55	-41 43.4	1.434	2.336	14.7	18.3	7 20	17 42.99	-30 24.1	1.635	2.555	12.1	21.5
7 30	17 35.59	-41 21.5	1.484	2.317	18.0	18.5	7 30	17 37.11	-30 15.5	1.720	2.562	15.5	21.8
393639	2004 <i>NG</i> ₂₉		6 23.7 289°90	7°1/24.4	18		209888	2005 <i>LY</i> ₆		6 23.7 355°27	2°4/23.8	16	
5 21	18 31.93	-1 51.0	2.279	3.096	12.9	20.7	5 21	18 32.80	-17 21.1	1.684	2.558	14.1	20.4
5 31	18 27.22	-1 31.4	2.185	3.074	10.8	20.5	5 31	18 28.29	-17 14.8	1.614	2.555	10.6	20.1
6 10	18 20.81	-1 26.0	2.112	3.051	8.7	20.3	6 10	18 21.60	-17 14.3	1.565	2.553	6.7	19.9
6 20	18 13.20	-1 37.1	2.063	3.029	7.3	20.2	6 20	18 13.45	-17 19.5	1.541	2.552	3.0	19.7
6 30	18 5.09	-2 5.8	2.041	3.006	7.4	20.2	6 30	18 4.85	-17 29.8	1.542	2.551	3.7	19.7
7 10	17 57.30	-2 51.2	2.044	2.983	9.1	20.2	7 10	17 56.93	-17 44.6	1.569	2.550	7.6	20.0
7 20	17 50.57	-3 50.9	2.072	2.960	11.4	20.3	7 20	17 50.62	-18 3.2	1.620	2.550	11.5	20.2
7 30	17 45.54	-5 1.7	2.122	2.938	13.9	20.5	7 30	17 46.64	-18 24.8	1.692	2.551	15.0	20.4
512553	2016 <i>SK</i> ₁₇		6 23.7 320°29	0°2/23.6	18		260910	2005 <i>RY</i> ₁₀		6 23.7 245°62	4°0/23.9	18	
5 21	18 34.97	-25 56.7	1.427	2.311	15.6	20.5	5 21	18 32.56	-11 27.9	2.347	3.193	11.6	21.1
5 31	18 30.64	-25 16.2	1.331	2.280	11.8	20.2	5 31	18 27.56	-11 8.0	2.265	3.186	9.0	20.9
6 10	18 23.40	-24 28.8	1.256	2.249	7.2	19.9	6 10	18 20.94	-10 55.5	2.206	3.179	6.3	20.7
6 20	18 13.99	-23 34.0	1.205	2.219	2.0	19.5	6 20	18 13.25	-10 51.3	2.174	3.171	4.2	20.6
6 30	18 3.69	-22 33.0	1.178	2.190	3.5	19.5	6 30	18 5.21	-10 55.9	2.169	3.164	4.6	20.6
7 10	17 54.02	-21 29.3	1.175	2.161	9.0	19.7	7 10	17 57.60	-11 8.9	2.191	3.156	7.0	20.7
7 20	17 46.34	-20 27.5	1.196	2.133	14.1	19.9	7 20	17 51.11	-11 29.6	2.238	3.148	9.8	20.9
7 30	17 41.68	-19 31.8	1.235	2.106	18.6	20.1	7 30	17 46.33	-11 56.5	2.309	3.140	12.4	21.0
5145	<i>Pholus</i>		6 23.7 112°95	0°4/23.9	16	A	153772	2001 <i>VQ</i> ₃₄		6 23.7 121°70	1°4/23.7	18	
5 21	18 14.21	-11 16.9	27.814	28.646	1.2	21.8	5 21	18 37.75	-19 45.3	1.958	2.819	13.0	20.0
5 31	18 13.14	-11 16.2	27.744	28.657	0.9	21.7	5 31	18 31.52	-19 38.3	1.896	2.832	9.6	19.8
6 10	18 11.96	-11 16.2	27.701	28.667	0.6	21.7	6 10	18 23.31	-19 33.9	1.858	2.846	5.9	19.6
6 20	18 10.73	-11 16.9	27.686	28.678	0.4	21.7	6 20	18 13.88	-19 31.5	1.846	2.858	2.1	19.4
6 30	18 9.48	-11 18.3	27.699	28.689	0.5	21.7	6 30	18 4.20	-19 30.8	1.861	2.871	3.0	19.4
7 10	18 8.25	-11 20.5	27.741	28.700	0.7	21.7	7 10	17 55.28	-19 31.6	1.904	2.883	6.7	19.7
7 20	18 7.10	-11 23.3	27.811	28.710	1.0	21.8	7 20	17 47.94	-19 34.2	1.973	2.894	10.3	19.9
7 30	18 6.06	-11 26.7	27.906	28.721	1.2	21.8	7 30	17 42.80	-19 38.9	2.064	2.905	13.3	20.2
511426	2014 <i>HD</i> ₁₈₆		6 23.7 270°82	5°9/23.9	17								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
85173	1990 QV ₆		6 23.7 296°25	4°1/23.8	18		431424	2007 LU ₉		6 23.7 317°58	6°4/22.8	18	
5 21	18 34.83	-13 30.9	1.771	2.633	14.1	20.1	5 21	18 34.49	-12 5.3	1.579	2.444	15.4	20.4
5 31	18 30.02	-13 16.9	1.668	2.600	11.0	19.9	5 31	18 29.64	-10 44.4	1.503	2.433	12.1	20.1
6 10	18 22.84	-13 11.2	1.587	2.568	7.5	19.6	6 10	18 22.48	-9 29.5	1.448	2.422	8.8	19.9
6 20	18 13.88	-13 14.8	1.530	2.535	4.4	19.3	6 20	18 13.74	-8 24.8	1.418	2.412	6.5	19.8
6 30	18 4.05	-13 28.2	1.499	2.502	5.0	19.3	6 30	18 4.50	-7 34.4	1.412	2.402	7.3	19.8
7 10	17 54.53	-13 50.9	1.494	2.469	8.7	19.4	7 10	17 55.93	-7 0.9	1.431	2.392	10.3	19.9
7 20	17 46.40	-14 21.9	1.513	2.435	12.8	19.6	7 20	17 49.06	-6 44.9	1.473	2.383	13.9	20.1
7 30	17 40.62	-14 59.7	1.553	2.402	16.6	19.7	7 30	17 44.63	-6 45.1	1.534	2.374	17.2	20.3
17687	1997 BN ₂		6 23.7 349°63	5°1/23.6	18		177311	2003 YS ₂₉		6 23.7 77°35	1°1/23.8	17	
5 21	18 36.94	-36 52.3	1.971	2.826	13.2	18.2	5 21	18 38.48	-19 54.2	1.471	2.346	15.8	19.8
5 31	18 31.41	-37 21.5	1.900	2.824	10.3	18.0	5 31	18 32.60	-20 5.0	1.418	2.361	11.7	19.6
6 10	18 23.48	-37 41.3	1.850	2.822	7.4	17.8	6 10	18 24.19	-20 20.3	1.386	2.376	7.0	19.4
6 20	18 13.98	-37 47.7	1.826	2.820	5.3	17.7	6 20	18 14.19	-20 38.2	1.378	2.392	2.2	19.1
6 30	18 4.03	-37 38.6	1.827	2.818	5.7	17.7	6 30	18 3.85	-20 57.0	1.396	2.407	3.3	19.3
7 10	17 54.88	-37 14.5	1.855	2.817	8.2	17.9	7 10	17 54.53	-21 15.5	1.440	2.423	8.0	19.6
7 20	17 47.53	-36 38.2	1.906	2.816	11.2	18.0	7 20	17 47.26	-21 33.6	1.507	2.438	12.2	19.9
7 30	17 42.75	-35 54.3	1.979	2.816	14.0	18.2	7 30	17 42.75	-21 51.4	1.595	2.453	15.8	20.1
473040	2015 HK ₇₇		6 23.7 140°96	2°6/23.5	17		483180	2015 PP ₉₇		6 23.7 287°66	3°2/24.1	18	
5 21	18 39.37	-30 19.2	2.220	3.074	12.0	21.8	5 21	18 32.62	-13 21.0	2.207	3.061	12.0	21.3
5 31	18 32.73	-30 45.3	2.154	3.085	9.0	21.6	5 31	18 27.81	-13 22.9	2.118	3.046	9.2	21.1
6 10	18 24.06	-31 7.0	2.113	3.095	5.7	21.4	6 10	18 21.22	-13 32.5	2.053	3.032	6.1	20.8
6 20	18 14.11	-31 21.3	2.098	3.105	2.9	21.3	6 20	18 13.40	-13 49.9	2.013	3.018	3.5	20.7
6 30	18 3.84	-31 26.6	2.111	3.115	3.6	21.3	6 30	18 5.11	-14 14.8	2.001	3.004	3.9	20.7
7 10	17 54.29	-31 22.7	2.152	3.124	6.6	21.5	7 10	17 57.21	-14 45.9	2.016	2.990	6.8	20.8
7 20	17 46.32	-31 11.4	2.219	3.132	9.7	21.7	7 20	17 50.49	-15 22.0	2.056	2.975	10.1	21.0
7 30	17 40.56	-30 55.3	2.309	3.140	12.4	21.9	7 30	17 45.59	-16 1.5	2.120	2.961	13.0	21.2
290685	2005 UT ₃₅₄		6 23.7 240°46	4°3/22.7	18		250309	2003 QD ₇₆		6 23.7 305°30	5°7/23.5	18	
5 21	18 37.63	-35 29.4	2.699	3.541	10.4	21.2	5 21	18 34.53	-13 40.5	1.287	2.166	17.2	20.1
5 31	18 31.54	-36 27.6	2.611	3.528	8.2	21.0	5 31	18 30.38	-12 53.5	1.202	2.144	13.5	19.8
6 10	18 23.47	-37 21.0	2.548	3.516	5.9	20.8	6 10	18 23.32	-12 14.1	1.138	2.121	9.3	19.5
6 20	18 13.99	-38 5.6	2.512	3.503	4.4	20.7	6 20	18 14.08	-11 45.5	1.095	2.098	6.0	19.3
6 30	18 3.93	-38 38.1	2.505	3.490	4.9	20.7	6 30	18 3.90	-11 30.5	1.075	2.076	6.8	19.3
7 10	17 54.24	-38 57.6	2.525	3.476	6.9	20.8	7 10	17 54.32	-11 30.4	1.079	2.055	11.0	19.4
7 20	17 45.78	-39 4.6	2.571	3.462	9.4	21.0	7 20	17 46.70	-11 44.8	1.103	2.034	15.7	19.6
7 30	17 39.28	-39 1.5	2.641	3.448	11.7	21.1	7 30	17 42.11	-12 11.9	1.145	2.013	20.0	19.8
343506	2010 EX ₁₀₉		6 23.7 319°29	3°4/23.9	17		26477	2000 AF ₁₉₇		6 23.7 210°85	4°7/23.9	18	
5 21	18 33.72	-15 4.8	1.736	2.603	14.1	20.7	5 21	18 37.05	-10 38.6	2.046	2.888	13.2	19.4
5 31	18 28.94	-14 51.6	1.660	2.597	10.7	20.4	5 31	18 31.10	-10 16.4	1.963	2.882	10.4	19.2
6 10	18 22.00	-14 45.5	1.606	2.590	7.0	20.2	6 10	18 23.19	-10 2.9	1.904	2.874	7.3	19.0
6 20	18 13.59	-14 47.1	1.577	2.584	3.8	20.0	6 20	18 13.94	-9 59.6	1.870	2.866	5.0	18.9
6 30	18 4.69	-14 56.4	1.574	2.579	4.4	20.0	6 30	18 4.23	-10 6.9	1.864	2.857	5.3	18.9
7 10	17 56.40	-15 12.8	1.596	2.573	7.9	20.2	7 10	17 55.03	-10 24.5	1.884	2.848	8.0	19.0
7 20	17 49.67	-15 35.3	1.642	2.568	11.7	20.4	7 20	17 47.19	-10 51.2	1.930	2.838	11.2	19.2
7 30	17 45.23	-16 2.6	1.710	2.563	15.1	20.6	7 30	17 41.40	-11 25.1	1.999	2.827	14.2	19.4
218951	2008 DJ ₇₂		6 23.7 351°19	4°7/23.8	18		476262	2007 VC ₁₁₇		6 23.7 210°55	1°0/23.7	16	
5 21	18 37.57	-33 3.0	1.272	2.156	17.2	19.7	5 21	18 35.96	-26 34.2	2.114	2.977	12.1	21.6
5 31	18 32.79	-33 23.8	1.207	2.151	13.2	19.4	5 31	18 30.32	-26 34.1	2.038	2.976	9.0	21.4
6 10	18 24.71	-33 35.2	1.162	2.148	8.8	19.2	6 10	18 22.70	-26 31.5	1.986	2.975	5.4	21.2
6 20	18 14.38	-33 32.4	1.139	2.145	5.2	19.0	6 20	18 13.79	-26 24.9	1.960	2.973	1.8	20.9
6 30	18 3.40	-33 12.7	1.139	2.143	5.8	19.0	6 30	18 4.53	-26 13.6	1.961	2.972	2.7	21.0
7 10	17 53.58	-32 37.4	1.163	2.142	9.9	19.2	7 10	17 55.90	-25 58.1	1.990	2.970	6.4	21.2
7 20	17 46.32	-31 51.3	1.208	2.141	14.3	19.5	7 20	17 48.76	-25 39.9	2.045	2.968	9.9	21.5
7 30	17 42.54	-31 0.3	1.272	2.141	18.3	19.7	7 30	17 43.74	-25 20.7	2.122	2.966	12.9	21.7
501716	2014 UN ₄₀		6 23.7 279°93	4°0/23.3	17		511828	2015 FD ₂₈₈		6 23.7 155°14	11°4/26.1	18	
5 21	18 37.93	-17 45.8	1.398	2.274	16.4	20.7	5 21	18 35.01	+ 8 35.6	1.976	2.745	16.3	21.0
5 31	18 32.62	-16 48.7	1.316	2.258	12.5	20.4	5 31	18 29.53	+ 9 11.6	1.913	2.748	14.4	20.9
6 10	18 24.48	-15 53.1	1.256	2.243	8.1	20.1	6 10	18 22.20	+ 9 24.2	1.868	2.752	12.7	20.8
6 20	18 14.33	-15 1.5	1.218	2.227	4.3	19.9	6 20	18 13.66	+ 9 9.9	1.846	2.755	11.6	20.7
6 30	18 3.44	-14 16.8	1.206	2.211	5.4	19.9	6 30	18 4.78	+ 8 27.3	1.846	2.757	11.4	20.7
7 10	17 53.30	-13 41.8	1.219	2.195	9.9	20.1	7 10	17 56.49	+ 7 18.4	1.869	2.760	12.4	20.8
7 20	17 45.17	-13 18.4	1.253	2.179	14.5	20.3	7 20	17 49.58	+ 5 48.0	1.915	2.762	14.0	20.9
7 30	17 40.00	-13 7.0	1.307	2.164	18.7	20.5	7 30	17 44.68	+ 4 2.0	1.982	2.764	15.9	21.1
433599	2013 YY ₆₁		6 23.7 353°10	2°2/23.7	18		517689	2015 DN ₂₃₂		6 23.7 273°63	0°9/23.8	18	
5 21	18 34.92	-28 9.1	1.486	2.368	15.2	20.1	5 21	18 35.51	-19 40.0	1.850	2.717	13.4	21.1
5 31	18 30.31	-28 20.2	1.417	2.364	11.4	19.8	5 31	18 30.26	-20 1.2	1.772	2.711	10.0	20.9
6 10	18 23.01	-28 27.5	1.370	2.361	7.0	19.6	6 10	18 22.82	-20 27.2	1.717	2.706	6.0	20.6
6 20	18 13.89	-28 28.2	1.346	2.358	2.8	19.3	6 20	18 13.87	-20 56.3	1.687	2.701	1.9	20.3
6 30	18 4.24	-28 20.7	1.347	2.356	3.8	19.4	6 30	18 4.38	-21 26.5	1.685	2.696	2.9	20.4
7 10	17 55.47	-28 5.4	1.372	2.355	8.3	19.6	7 10	17 55.46	-21 56.3	1.709	2.690	7.1	20.6
7 20	17 48.74	-27 44.5	1.421	2.355	12.6	19.9	7 20	17 48.09	-22 24.8	1.758	2.685	11.0	20.9
7 30	17 44.87	-27 21.2	1.489	2.355	16.3	20.1	7 30	17 43.01	-22 51.9	1.829	2.680	14.4	21.1
491277	2011 UW ₃₇₄		6 23.7 247°53	0°6/23.7	17		96740	1999 NW ₅₆		6 23.7 260°82	0°4/23.7	18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
59250	1999 <i>CD</i> ₁₆		6 23.7 54°38'	11.9°/28.8	18		163988	2003 <i>UQ</i> ₁₄₂		6 23.7 275°55'	1.1°/23.7	18	
5 21	18 39.83	+ 6 44.6	1.218	2.029	22.2	17.6	5 21	18 36.69	-26 49.4	1.885	2.753	13.1	19.5
5 31	18 33.76	+ 6 13.5	1.172	2.049	18.9	17.5	5 31	18 31.11	-26 47.1	1.809	2.749	9.8	19.3
6 10	18 24.95	+ 5 5.1	1.143	2.069	15.5	17.3	6 10	18 23.31	-26 41.7	1.755	2.745	5.9	19.1
6 20	18 14.42	+ 3 18.3	1.133	2.090	12.8	17.2	6 20	18 14.03	-26 31.7	1.727	2.740	2.0	18.8
6 30	18 3.57	+ 0 57.1	1.147	2.111	11.9	17.2	6 30	18 4.32	-26 16.3	1.726	2.736	2.9	18.9
7 10	17 53.88	- 1 48.0	1.185	2.132	13.3	17.4	7 10	17 55.32	-25 56.1	1.751	2.732	7.0	19.1
7 20	17 46.46	- 4 44.6	1.246	2.154	16.0	17.6	7 20	17 47.98	-25 33.2	1.802	2.728	10.8	19.3
7 30	17 42.06	- 7 41.1	1.328	2.176	18.9	17.9	7 30	17 43.01	-25 9.7	1.874	2.724	14.1	19.5
257691	1999 <i>VC</i> ₂₁₀		6 23.7 282°24'	3°8'/23.6	18		383269	2006 <i>DS</i> ₈₀		6 23.7 191°96'	1°9'/23.6	18	
5 21	18 36.45	-16 23.8	1.501	2.374	15.6	20.7	5 21	18 38.79	-28 57.8	2.300	3.154	11.6	22.1
5 31	18 31.36	-15 46.3	1.420	2.360	11.9	20.4	5 31	18 32.35	-29 12.1	2.221	3.152	8.7	21.9
6 10	18 23.67	-15 13.6	1.361	2.346	7.8	20.2	6 10	18 23.93	-29 22.7	2.165	3.150	5.4	21.7
6 20	18 14.14	-14 47.3	1.325	2.333	4.2	19.9	6 20	18 14.19	-29 27.4	2.137	3.147	2.4	21.5
6 30	18 3.94	-14 28.7	1.314	2.319	5.1	19.9	6 30	18 4.06	-29 24.8	2.137	3.144	3.1	21.5
7 10	17 54.41	-14 19.1	1.328	2.305	9.2	20.1	7 10	17 54.52	-29 14.9	2.165	3.140	6.3	21.7
7 20	17 46.72	-14 18.7	1.364	2.291	13.6	20.4	7 20	17 46.45	-28 59.3	2.220	3.135	9.6	21.9
7 30	17 41.73	-14 27.1	1.421	2.277	17.5	20.6	7 30	17 40.48	-28 40.3	2.298	3.130	12.4	22.1
212033	2005 <i>CY</i> ₃₆		6 23.7 155°36'	3°1'/23.4	17		4028	Pancratz		6 23.7 189°55'	1°5'/23.8	18	
5 21	18 40.94	-28 45.9	1.567	2.437	15.2	20.9	5 21	18 37.16	-19 11.4	2.076	2.934	12.5	17.6
5 31	18 34.73	-29 28.2	1.501	2.441	11.4	20.6	5 31	18 31.19	-19 7.2	1.999	2.933	9.3	17.4
6 10	18 25.68	-30 7.8	1.457	2.444	7.2	20.4	6 10	18 23.26	-19 6.1	1.945	2.932	5.7	17.1
6 20	18 14.69	-30 39.7	1.437	2.446	3.5	20.2	6 20	18 14.02	-19 7.4	1.918	2.930	2.1	16.9
6 30	18 3.11	-31 0.4	1.443	2.449	4.5	20.2	6 30	18 4.38	-19 10.6	1.918	2.928	2.9	16.9
7 10	17 52.42	-31 8.9	1.475	2.451	8.5	20.5	7 10	17 55.33	-19 15.6	1.947	2.925	6.7	17.2
7 20	17 43.88	-31 7.1	1.530	2.453	12.6	20.7	7 20	17 47.72	-19 22.3	2.001	2.922	10.2	17.4
7 30	17 38.36	-30 58.2	1.606	2.455	16.2	21.0	7 30	17 42.19	-19 30.9	2.078	2.918	13.3	17.6
369885	2012 <i>QM</i> ₂₈		6 23.7 279°04'	3°4'/23.6	18		503278	2015 <i>SR</i> ₁		6 23.7 336°58'	1°5'/23.6	18	
5 21	18 38.04	-31 33.3	1.811	2.676	13.7	20.8	5 21	18 33.26	-21 1.4	1.969	2.838	12.6	21.0
5 31	18 32.32	-31 54.7	1.736	2.672	10.4	20.6	5 31	18 28.42	-20 29.8	1.891	2.832	9.4	20.8
6 10	18 24.12	-32 10.3	1.684	2.668	6.8	20.4	6 10	18 21.63	-19 58.6	1.836	2.825	5.7	20.5
6 20	18 14.25	-32 16.6	1.657	2.664	3.7	20.2	6 20	18 13.57	-19 28.1	1.806	2.819	2.1	20.3
6 30	18 3.86	-32 11.3	1.656	2.660	4.4	20.2	6 30	18 5.14	-18 59.3	1.803	2.813	3.0	20.3
7 10	17 54.25	-31 54.8	1.681	2.656	7.8	20.4	7 10	17 57.33	-18 33.4	1.828	2.808	6.8	20.6
7 20	17 46.49	-31 29.5	1.731	2.652	11.5	20.6	7 20	17 50.95	-18 11.6	1.877	2.803	10.5	20.8
7 30	17 41.36	-30 59.1	1.802	2.648	14.8	20.8	7 30	17 46.65	-17 54.8	1.948	2.798	13.6	21.0
86193	1999 <i>SA</i> ₂		6 23.7 269°32'	19°9'/18.9	18		146686	2001 <i>VW</i> ₃₇		6 23.7 331°38'	1°2'/23.7	18	
5 21	18 37.32	+ 9 29.6	1.160	1.967	23.4	19.0	5 21	18 37.06	-25 45.9	1.573	2.449	14.8	19.7
5 31	18 32.46	+12 28.6	1.106	1.957	21.6	18.8	5 31	18 31.77	-25 57.1	1.502	2.447	11.0	19.4
6 10	18 24.54	+14 59.4	1.069	1.947	20.3	18.7	6 10	18 23.88	-26 7.0	1.453	2.444	6.7	19.2
6 20	18 14.43	+16 48.6	1.049	1.937	19.9	18.6	6 20	18 14.23	-26 13.2	1.428	2.442	2.2	18.9
6 30	18 3.50	+17 46.0	1.045	1.927	20.6	18.6	6 30	18 4.03	-26 13.8	1.429	2.440	3.3	18.9
7 10	17 53.37	+17 49.3	1.058	1.917	22.1	18.7	7 10	17 54.65	-26 8.9	1.455	2.438	7.9	19.2
7 20	17 45.42	+17 3.0	1.086	1.906	24.0	18.8	7 20	17 47.22	-25 59.9	1.505	2.436	12.2	19.5
7 30	17 40.66	+15 36.4	1.125	1.896	26.1	18.9	7 30	17 42.55	-25 49.0	1.575	2.434	15.9	19.7
217350	2004 <i>RZ</i> ₂₁₉		6 23.7 223°49'	4°2'/23.9	18		73445	2002 <i>NS</i> ₁₂		6 23.7 245°43'	2°1'/23.9	18	
5 21	18 37.72	-38 1.4	2.648	3.485	10.8	20.5	5 21	18 35.53	-16 8.2	2.491	3.338	11.0	20.3
5 31	18 31.43	-38 10.2	2.567	3.480	8.4	20.3	5 31	18 29.85	-16 13.0	2.392	3.319	8.3	20.1
6 10	18 23.30	-38 9.9	2.510	3.476	6.1	20.2	6 10	18 22.44	-16 22.9	2.317	3.300	5.3	19.9
6 20	18 13.98	-37 58.0	2.479	3.471	4.4	20.1	6 20	18 13.82	-16 37.4	2.270	3.280	2.5	19.6
6 30	18 4.37	-37 33.5	2.477	3.465	4.6	20.1	6 30	18 4.69	-16 56.0	2.252	3.259	3.0	19.6
7 10	17 55.40	-36 57.1	2.502	3.460	6.6	20.2	7 10	17 55.88	-17 17.9	2.262	3.237	6.1	19.8
7 20	17 47.84	-36 11.6	2.553	3.455	9.1	20.3	7 20	17 48.14	-17 42.3	2.300	3.215	9.3	20.0
7 30	17 42.30	-35 20.3	2.628	3.449	11.4	20.5	7 30	17 42.12	-18 8.7	2.361	3.192	12.2	20.1
253753	2003 <i>WB</i> ₉₂		6 23.7 266°73'	3°3'/23.8	18		25025	Joshuavo		6 23.7 188°27'	3°9'/24.0	18	
5 21	18 36.98	-16 25.5	1.557	2.426	15.3	20.5	5 21	18 34.71	-11 37.4	2.269	3.114	12.1	19.5
5 31	18 31.72	-16 5.1	1.475	2.413	11.7	20.3	5 31	18 29.20	-11 24.2	2.192	3.113	9.3	19.3
6 10	18 23.88	-15 50.7	1.414	2.400	7.5	20.0	6 10	18 21.99	-11 18.9	2.139	3.112	6.4	19.1
6 20	18 14.22	-15 42.8	1.378	2.387	3.8	19.7	6 20	18 13.67	-11 22.0	2.112	3.111	4.2	19.0
6 30	18 3.88	-15 41.9	1.367	2.373	4.6	19.8	6 30	18 5.01	-11 33.7	2.112	3.109	4.5	19.0
7 10	17 54.17	-15 48.1	1.381	2.359	8.8	20.0	7 10	17 56.84	-11 53.4	2.140	3.107	7.0	19.1
7 20	17 46.24	-16 0.8	1.419	2.345	13.1	20.2	7 20	17 49.88	-12 19.8	2.194	3.104	9.9	19.3
7 30	17 40.97	-16 19.5	1.477	2.331	17.0	20.4	7 30	17 44.73	-12 51.5	2.271	3.101	12.6	19.5
336894	2011 <i>GZ</i> ₆₃		6 23.7 9°12'	8°8'/24.7	17		61946	2000 <i>RQ</i> ₁₃		6 23.7 153°01'	6°3'/23.8	18	
5 21	18 32.79	- 2 56.4	1.535	2.379	16.8	20.2	5 21	18 35.76	- 6 54.1	2.069	2.903	13.5	19.7
5 31	18 28.36	- 2 20.4	1.472	2.380	13.9	20.0	5 31	18 29.99	- 6 7.8	2.003	2.909	10.8	19.5
6 10	18 21.71	- 2 3.4	1.430	2.381	11.0	19.8	6 10	18 22.46	- 5 32.2	1.959	2.915	8.2	19.4
6 20	18 13.59	- 2 8.5	1.409	2.383	9.1	19.7	6 20	18 13.80	- 5 9.9	1.941	2.921	6.4	19.3
6 30	18 5.04	- 2 37.0	1.411	2.385	9.2	19.7	6 30	18 4.85	- 5 2.2	1.949	2.926	6.7	19.3
7 10	17 57.19	- 3 26.8	1.437	2.388	11.2	19.9	7 10	17 56.51	- 5 9.0	1.983	2.931	8.8	19.4
7 20	17 51.01	- 4 33.8	1.485	2.391	14.0	20.1	7 20	17 49.52	- 5 28.9	2.042	2.935	11.4	19.6
7 30	17 47.20	- 5 52.5	1.553	2.395	16.9	20.3	7 30	17 44.48	- 5 59.6	2.122	2.939	13.9	19.8
205196	2000 <i>EC</i> ₇₁		6 23.7 287°49'	2°5'/23.9	16		112777	2002 <i>PD</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
4490	Bamberg		6 23.7 233°77	16°2/28.5	18	A	90897	1997 CF ₆		6 23.7 227°47	5°8/23.6	18	
5 21	18 41.22	+12 39.3	1.296	2.069	23.0	16.4	5 21	18 42.52	-40 1.7	2.267	3.100	12.5	19.3
5 31	18 35.22	+13 2.9	1.225	2.062	20.8	16.2	5 31	18 35.49	-40 34.0	2.182	3.089	10.0	19.1
6 10	18 26.19	+12 47.6	1.170	2.054	18.5	16.1	6 10	18 26.01	-40 55.6	2.120	3.078	7.6	18.9
6 20	18 14.94	+11 45.9	1.132	2.046	16.8	15.9	6 20	18 14.84	-41 2.1	2.083	3.066	5.9	18.8
6 30	18 2.84	+9 54.5	1.115	2.038	16.2	15.9	6 30	18 3.11	-40 50.6	2.074	3.053	6.2	18.8
7 10	17 51.46	+7 18.4	1.118	2.029	17.3	15.9	7 10	17 52.09	-40 21.6	2.091	3.040	8.3	18.9
7 20	17 42.19	+4 9.0	1.144	2.020	19.5	16.0	7 20	17 42.85	-39 38.2	2.134	3.026	11.0	19.0
7 30	17 36.06	+0 40.9	1.188	2.010	22.2	16.2	7 30	17 36.18	-38 45.2	2.199	3.012	13.6	19.2
155242	2005 WQ ₂₄		6 23.7 130°55	0°3/23.7	18		491773	2012 WY ₁₁		6 23.7 324°45	6°5/22.5	16	
5 21	18 34.17	-24 35.5	2.585	3.442	10.3	20.5	5 21	18 33.36	-13 9.0	1.477	2.350	15.8	20.7
5 31	18 28.64	-24 34.2	2.513	3.449	7.6	20.3	5 31	18 29.09	-11 39.4	1.394	2.330	12.5	20.4
6 10	18 21.58	-24 31.9	2.467	3.456	4.5	20.1	6 10	18 22.35	-10 13.4	1.333	2.310	9.0	20.1
6 20	18 13.55	-24 27.7	2.448	3.462	1.3	19.9	6 20	18 13.86	-8 56.0	1.295	2.292	6.7	20.0
6 30	18 5.29	-24 21.2	2.458	3.469	2.1	20.0	6 30	18 4.73	-7 52.4	1.282	2.274	7.6	20.0
7 10	17 57.56	-24 12.7	2.496	3.475	5.3	20.2	7 10	17 56.24	-7 6.2	1.293	2.256	10.9	20.1
7 20	17 51.02	-24 2.8	2.560	3.481	8.3	20.4	7 20	17 49.48	-6 39.1	1.325	2.240	14.8	20.3
7 30	17 46.18	-23 52.6	2.649	3.487	10.8	20.6	7 30	17 45.31	-6 30.3	1.376	2.224	18.4	20.5
95002	2001 YM ₁₄₅		6 23.7 359°98	3°9/24.0	17		26409	1999 XV ₃₃		6 23.7 263°91	0°5/23.7	18	
5 21	18 32.54	-14 57.2	1.318	2.202	16.7	18.6	5 21	18 39.73	-22 31.4	1.402	2.279	16.2	18.1
5 31	18 28.61	-14 45.5	1.255	2.200	12.7	18.4	5 31	18 34.21	-22 29.0	1.318	2.263	12.2	17.8
6 10	18 22.07	-14 43.6	1.211	2.198	8.3	18.1	6 10	18 25.63	-22 27.8	1.255	2.247	7.4	17.5
6 20	18 13.76	-14 52.1	1.189	2.198	4.4	17.9	6 20	18 14.82	-22 26.2	1.216	2.230	2.1	17.1
6 30	18 4.91	-15 10.8	1.192	2.198	5.0	17.9	6 30	18 3.10	-22 22.9	1.202	2.214	3.6	17.2
7 10	17 56.89	-15 38.1	1.217	2.200	9.2	18.2	7 10	17 52.09	-22 18.0	1.213	2.196	9.0	17.4
7 20	17 50.82	-16 12.1	1.265	2.202	13.5	18.4	7 20	17 43.19	-22 12.5	1.246	2.179	14.1	17.7
7 30	17 47.55	-16 50.6	1.332	2.205	17.4	18.7	7 30	17 37.44	-22 8.5	1.299	2.161	18.4	17.9
237063	2008 SX ₁₉₇		6 23.7 251°41	2°8/23.8	16		512017	2015 LA ₃₂		6 23.7 304°50	2°9/23.9	18	
5 21	18 35.36	-16 2.3	1.981	2.840	13.0	21.1	5 21	18 36.61	-32 3.3	1.976	2.839	12.8	21.4
5 31	18 30.02	-15 47.8	1.897	2.829	9.8	20.9	5 31	18 31.21	-32 0.8	1.884	2.819	9.8	21.2
6 10	18 22.66	-15 38.4	1.835	2.818	6.4	20.7	6 10	18 23.49	-31 50.9	1.815	2.799	6.4	20.9
6 20	18 13.90	-15 34.7	1.799	2.807	3.3	20.4	6 20	18 14.16	-31 31.3	1.771	2.779	3.3	20.7
6 30	18 4.65	-15 36.8	1.790	2.795	3.9	20.5	6 30	18 4.28	-31 0.9	1.754	2.760	3.9	20.7
7 10	17 55.90	-15 44.3	1.807	2.783	7.3	20.6	7 10	17 55.01	-30 20.7	1.764	2.741	7.4	20.9
7 20	17 48.55	-15 57.0	1.850	2.771	10.9	20.8	7 20	17 47.39	-29 33.7	1.798	2.722	11.0	21.0
7 30	17 43.30	-16 14.4	1.915	2.758	14.1	21.0	7 30	17 42.20	-28 43.8	1.855	2.703	14.3	21.2
275957	2001 VL ₁₀₀		6 23.7 234°96	5°2/23.8	18		186285	2002 AP ₁₆₅		6 23.7 145°70	3°0/24.0	17	
5 21	18 35.72	-10 21.7	1.945	2.792	13.6	21.0	5 21	18 33.03	-13 13.7	2.570	3.416	10.8	21.0
5 31	18 30.26	-9 49.6	1.862	2.782	10.7	20.7	5 31	18 27.77	-13 7.5	2.499	3.422	8.2	20.8
6 10	18 22.78	-9 26.4	1.803	2.773	7.7	20.5	6 10	18 21.06	-13 7.5	2.451	3.428	5.5	20.7
6 20	18 13.93	-9 13.9	1.768	2.762	5.4	20.4	6 20	18 13.44	-13 13.8	2.430	3.433	3.3	20.5
6 30	18 4.60	-9 13.5	1.760	2.752	5.8	20.4	6 30	18 5.56	-13 26.4	2.438	3.439	3.6	20.6
7 10	17 55.78	-9 24.8	1.778	2.741	8.5	20.5	7 10	17 58.14	-13 44.4	2.474	3.444	6.0	20.7
7 20	17 48.35	-9 46.9	1.821	2.729	11.7	20.7	7 20	17 51.80	-14 7.1	2.536	3.448	8.7	20.9
7 30	17 43.02	-10 18.0	1.885	2.717	14.8	20.9	7 30	17 47.03	-14 33.5	2.622	3.453	11.1	21.1
479264	2013 EN ₁₁₂		6 23.7 103°62	1°5/23.5	17		279401	2010 EK ₃₈		6 23.7 196°26	1°6/23.8	18	
5 21	18 34.90	-26 32.0	2.431	3.289	10.9	21.4	5 21	18 35.43	-18 43.0	2.128	2.987	12.2	21.4
5 31	18 29.38	-27 8.7	2.361	3.296	8.0	21.2	5 31	18 29.89	-18 38.2	2.051	2.986	9.1	21.2
6 10	18 22.12	-27 44.6	2.316	3.303	4.9	21.0	6 10	18 22.49	-18 36.8	1.997	2.984	5.6	21.0
6 20	18 13.73	-28 17.1	2.298	3.310	2.0	20.8	6 20	18 13.86	-18 38.3	1.970	2.982	2.2	20.8
6 30	18 4.98	-28 44.3	2.309	3.317	2.8	20.9	6 30	18 4.85	-18 42.3	1.971	2.980	2.9	20.8
7 10	17 56.76	-29 5.2	2.347	3.323	5.8	21.1	7 10	17 56.39	-18 48.6	1.999	2.978	6.5	21.1
7 20	17 49.81	-29 20.0	2.412	3.330	8.8	21.3	7 20	17 49.29	-18 57.0	2.053	2.975	9.9	21.3
7 30	17 44.71	-29 29.8	2.501	3.336	11.5	21.5	7 30	17 44.17	-19 7.6	2.130	2.972	12.9	21.5
228641	2002 ET ₁₉		6 23.7 118°15	2°9/24.2	18		128109	2003 QB ₁₄		6 23.7 41°80	1°2/23.9	18	
5 21	18 36.97	-13 44.4	1.945	2.798	13.4	20.1	5 21	18 38.64	-28 25.3	1.524	2.399	15.3	18.9
5 31	18 31.05	-14 3.3	1.881	2.810	10.2	19.9	5 31	18 32.74	-27 54.2	1.467	2.410	11.3	18.6
6 10	18 23.17	-14 31.1	1.840	2.821	6.6	19.7	6 10	18 24.30	-27 16.6	1.430	2.421	6.9	18.4
6 20	18 14.02	-15 6.6	1.824	2.832	3.4	19.5	6 20	18 14.34	-26 31.9	1.419	2.432	2.2	18.1
6 30	18 4.52	-15 48.2	1.837	2.842	3.8	19.5	6 30	18 4.16	-25 41.3	1.433	2.444	3.2	18.2
7 10	17 55.68	-16 33.8	1.877	2.853	7.0	19.8	7 10	17 55.11	-24 47.8	1.473	2.457	7.8	18.5
7 20	17 48.33	-17 21.2	1.942	2.863	10.5	20.0	7 20	17 48.19	-23 55.2	1.537	2.469	11.9	18.8
7 30	17 43.12	-18 9.1	2.030	2.872	13.5	20.2	7 30	17 44.04	-23 6.9	1.623	2.482	15.5	19.1
316787	1999 TA ₁₇₂		6 23.7 231°79	3°6/23.8	18		129160	Ericpeters		6 23.7 294°66	3°6/23.9	18	
5 21	18 32.15	-10 56.3	2.967	3.802	9.8	21.9	5 21	18 34.33	-14 1.7	1.849	2.710	13.7	20.3
5 31	18 27.03	-10 33.6	2.875	3.790	7.6	21.7	5 31	18 29.31	-13 50.8	1.774	2.707	10.4	20.1
6 10	18 20.60	-10 16.7	2.809	3.777	5.4	21.6	6 10	18 22.25	-13 47.7	1.722	2.703	6.9	19.9
6 20	18 13.30	-10 6.5	2.769	3.763	3.8	21.4	6 20	18 13.81	-13 52.8	1.694	2.700	3.9	19.7
6 30	18 5.70	-10 3.5	2.758	3.749	4.0	21.4	6 30	18 4.94	-14 6.1	1.693	2.696	4.4	19.7
7 10	17 58.41	-10 7.9	2.775	3.735	6.0	21.5	7 10	17 56.64	-14 26.7	1.718	2.693	7.7	19.9
7 20	17 51.99	-10 19.1	2.819	3.720	8.3	21.7	7 20	17 49.82	-14 53.3	1.767	2.689	11.2	20.1
7 30	17 46.93	-10 36.4	2.887	3.705	10.6	21.8	7 30	17 45.16	-15 24.7	1.838	2.686	14.4	20.3
244498	2002 TF ₈₄		6 23.7 299°00	8°5/21.8	18		436571	2011 HR ₆₄		6 23.7 166°85	1°9/23.4	18	
5 21	18 40.69	-41											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
72618	2001 <i>FC</i> ₂₃		6 23.7 139°18	3°7/23.3	18		475039	2005 <i>UL</i> ₅₈		6 23.7 184°66	1°9/23.8	18	
5 21	18 39.12	-32 35.0	2.124	2.978	12.4	19.5	5 21	18 33.12	-17 17.4	2.766	3.616	10.0	22.2
5 31	18 32.83	-33 18.5	2.057	2.985	9.4	19.4	5 31	18 27.80	-17 0.7	2.687	3.616	7.5	22.1
6 10	18 24.34	-33 56.5	2.013	2.991	6.3	19.2	6 10	18 21.09	-16 46.8	2.632	3.615	4.7	21.9
6 20	18 14.38	-34 25.2	1.996	2.998	4.0	19.0	6 20	18 13.49	-16 35.9	2.606	3.615	2.3	21.7
6 30	18 4.01	-34 42.0	2.006	3.004	4.5	19.1	6 30	18 5.65	-16 28.3	2.608	3.614	2.8	21.8
7 10	17 54.33	-34 46.3	2.043	3.010	7.3	19.3	7 10	17 58.23	-16 24.1	2.639	3.612	5.4	21.9
7 20	17 46.30	-34 39.9	2.106	3.015	10.3	19.5	7 20	17 51.82	-16 23.4	2.696	3.611	8.1	22.1
7 30	17 40.63	-34 25.8	2.191	3.020	13.1	19.7	7 30	17 46.92	-16 26.1	2.778	3.609	10.6	22.3
205157	1999 <i>XL</i> ₂₂₃		6 23.7 213°22	1°0/23.9	18		198068	2004 <i>RU</i> ₃₂₈		6 23.7 310°74	3°3/23.7	18	
5 21	18 36.19	-18 38.5	2.277	3.131	11.7	21.4	5 21	18 36.97	-30 31.9	1.540	2.416	15.1	20.1
5 31	18 30.45	-19 1.7	2.193	3.126	8.7	21.2	5 31	18 32.08	-30 51.2	1.458	2.400	11.5	19.8
6 10	18 22.85	-19 29.6	2.133	3.119	5.3	21.0	6 10	18 24.32	-31 5.2	1.397	2.385	7.4	19.6
6 20	18 13.99	-20 0.6	2.100	3.113	1.8	20.7	6 20	18 14.50	-31 10.1	1.360	2.369	3.8	19.3
6 30	18 4.65	-20 33.2	2.096	3.106	2.6	20.7	6 30	18 3.92	-31 3.0	1.348	2.355	4.6	19.3
7 10	17 55.76	-21 5.9	2.120	3.098	6.1	21.0	7 10	17 54.08	-30 44.2	1.361	2.340	8.8	19.5
7 20	17 48.12	-21 37.8	2.170	3.091	9.5	21.2	7 20	17 46.28	-30 16.3	1.397	2.326	13.1	19.7
7 30	17 42.38	-22 8.5	2.244	3.082	12.5	21.3	7 30	17 41.49	-29 43.4	1.452	2.313	16.9	19.9
221117	2005 <i>SE</i> ₂₁₇		6 23.7 168°30	5°1/23.3	17		4361	Nezhdanova		6 23.7 207°38	0°3/23.7	18	
5 21	18 42.64	-37 23.4	2.316	3.153	12.1	21.8	5 21	18 34.07	-24 1.3	2.778	3.633	9.8	18.1
5 31	18 35.40	-38 11.4	2.245	3.158	9.5	21.7	5 31	18 28.61	-24 11.8	2.694	3.628	7.2	17.9
6 10	18 25.88	-38 51.0	2.199	3.162	6.9	21.5	6 10	18 21.64	-24 22.1	2.635	3.623	4.3	17.7
6 20	18 14.82	-39 17.7	2.178	3.166	5.2	21.4	6 20	18 13.67	-24 31.0	2.604	3.618	1.2	17.4
6 30	18 3.29	-39 28.7	2.186	3.169	5.6	21.5	6 30	18 5.37	-24 37.8	2.601	3.612	2.0	17.5
7 10	17 52.48	-39 23.7	2.221	3.172	7.8	21.6	7 10	17 57.49	-24 42.2	2.628	3.606	5.1	17.7
7 20	17 43.36	-39 5.2	2.281	3.173	10.4	21.8	7 20	17 50.65	-24 44.3	2.681	3.600	8.0	17.9
7 30	17 36.68	-38 37.1	2.364	3.174	12.8	21.9	7 30	17 45.41	-24 45.1	2.759	3.593	10.5	18.0
15205	1978 <i>VC</i> ₄		6 23.7 217°38	0°7/23.7	18		365547	2010 <i>TH</i> ₃		6 23.7 227°56	0°1/23.7	18	
5 21	18 35.87	-25 12.4	2.165	3.027	11.9	19.5	5 21	18 33.87	-23 44.6	2.816	3.670	9.7	21.9
5 31	18 30.30	-25 21.7	2.086	3.024	8.8	19.3	5 31	18 28.45	-23 43.1	2.727	3.661	7.2	21.7
6 10	18 22.77	-25 29.9	2.031	3.020	5.3	19.1	6 10	18 21.54	-23 41.0	2.663	3.651	4.3	21.5
6 20	18 13.96	-25 35.6	2.003	3.017	1.6	18.8	6 20	18 13.64	-23 37.6	2.627	3.641	1.2	21.3
6 30	18 4.74	-25 37.6	2.002	3.013	2.6	18.9	6 30	18 5.42	-23 32.6	2.620	3.631	2.0	21.3
7 10	17 56.09	-25 35.7	2.029	3.009	6.3	19.1	7 10	17 57.60	-23 25.9	2.642	3.620	5.1	21.5
7 20	17 48.85	-25 30.7	2.082	3.005	9.7	19.3	7 20	17 50.81	-23 18.2	2.690	3.609	8.0	21.7
7 30	17 43.67	-25 24.1	2.158	3.001	12.8	19.5	7 30	17 45.58	-23 10.3	2.764	3.598	10.5	21.9
144540	2004 <i>EV</i> ₈₆		6 23.7 213°47	0°4/23.7	18		316062	2009 <i>HQ</i> ₇₇		6 23.7 33°58	0°3/23.7	17	
5 21	18 39.14	-23 20.8	1.921	2.783	13.2	20.9	5 21	18 36.79	-23 17.9	1.120	2.014	18.1	20.5
5 31	18 32.98	-23 38.5	1.839	2.776	9.8	20.7	5 31	18 32.05	-23 10.2	1.072	2.025	13.4	20.3
6 10	18 24.52	-23 57.4	1.780	2.769	5.9	20.4	6 10	18 24.21	-23 3.2	1.043	2.037	8.0	20.0
6 20	18 14.47	-24 15.1	1.748	2.762	1.7	20.1	6 20	18 14.41	-22 55.4	1.036	2.050	2.2	19.7
6 30	18 3.85	-24 29.8	1.743	2.754	2.8	20.2	6 30	18 4.25	-22 46.1	1.051	2.064	3.7	19.8
7 10	17 53.83	-24 40.8	1.765	2.745	7.1	20.4	7 10	17 55.38	-22 36.1	1.090	2.078	9.2	20.2
7 20	17 45.40	-24 48.4	1.813	2.736	11.0	20.7	7 20	17 49.04	-22 26.8	1.150	2.093	14.1	20.5
7 30	17 39.36	-24 53.8	1.884	2.726	14.3	20.9	7 30	17 45.99	-22 19.8	1.229	2.109	18.1	20.8
376720	1997 <i>CO</i> ₅		6 23.7 200°77	4°9/23.7	18		393874	2005 <i>TF</i> ₂₆		6 23.7 300°42	4°3/23.2	18	
5 21	18 44.07	-41 37.4	3.059	3.870	10.1	23.0	5 21	18 36.58	-34 8.6	2.191	3.046	12.0	20.8
5 31	18 36.02	-41 59.7	2.972	3.864	8.2	22.9	5 31	18 31.08	-34 56.1	2.115	3.041	9.3	20.7
6 10	18 26.06	-42 11.8	2.910	3.857	6.2	22.7	6 10	18 23.39	-35 38.0	2.061	3.036	6.5	20.5
6 20	18 14.86	-42 10.7	2.875	3.849	5.0	22.6	6 20	18 14.19	-36 10.3	2.034	3.031	4.5	20.3
6 30	18 3.31	-41 54.5	2.869	3.840	5.2	22.6	6 30	18 4.47	-36 30.1	2.033	3.027	5.0	20.4
7 10	17 52.37	-41 23.9	2.892	3.830	6.7	22.7	7 10	17 55.32	-36 36.5	2.059	3.022	7.5	20.5
7 20	17 42.86	-40 41.3	2.942	3.819	8.8	22.8	7 20	17 47.70	-36 31.0	2.111	3.017	10.4	20.7
7 30	17 35.40	-39 50.4	3.016	3.807	10.8	23.0	7 30	17 42.35	-36 16.4	2.184	3.013	13.1	20.9
423776	2006 <i>DL</i> ₁₉₅		6 23.7 80°92	4°1/23.5	17		11999	1996 <i>BV</i> ₁		6 23.7 108°48	4°0/23.8	18	
5 21	18 40.37	-32 51.7	1.790	2.651	14.1	20.8	5 21	18 41.73	-35 18.7	2.259	3.102	12.1	19.0
5 31	18 33.93	-33 31.4	1.738	2.669	10.7	20.6	5 31	18 34.45	-35 40.8	2.205	3.125	9.3	18.8
6 10	18 25.02	-34 4.0	1.707	2.687	7.1	20.4	6 10	18 25.13	-35 54.5	2.174	3.147	6.4	18.7
6 20	18 14.58	-34 25.2	1.702	2.705	4.4	20.3	6 20	18 14.61	-35 56.6	2.170	3.168	4.2	18.6
6 30	18 3.83	-34 32.7	1.723	2.723	5.0	20.4	6 30	18 3.92	-35 46.0	2.194	3.189	4.6	18.6
7 10	17 54.06	-34 26.6	1.771	2.740	8.0	20.6	7 10	17 54.12	-35 23.5	2.246	3.209	7.0	18.8
7 20	17 46.30	-34 9.7	1.843	2.758	11.3	20.8	7 20	17 46.06	-34 51.9	2.323	3.228	9.7	19.0
7 30	17 41.24	-33 45.8	1.936	2.775	14.2	21.1	7 30	17 40.31	-34 15.1	2.424	3.247	12.2	19.2
330562	2008 <i>CG</i> ₁₄		6 23.7 90°43	1°8/23.7	17		108047	2001 <i>FC</i> ₁₅₇		6 23.7 63°27	1°5/23.6	17	
5 21	18 39.85	-26 54.0	1.531	2.404	15.3	21.6	5 21	18 37.05	-25 30.0	1.750	2.620	13.8	19.6
5 31	18 33.80	-27 14.2	1.472	2.415	11.4	21.4	5 31	18 31.50	-26 3.0	1.688	2.630	10.2	19.4
6 10	18 25.08	-27 32.0	1.435	2.425	6.9	21.1	6 10	18 23.63	-26 35.8	1.649	2.639	6.2	19.2
6 20	18 14.63	-27 44.2	1.422	2.435	2.6	20.9	6 20	18 14.25	-27 5.2	1.636	2.649	2.2	18.9
6 30	18 3.78	-27 48.7	1.436	2.445	3.6	21.0	6 30	18 4.46	-27 28.7	1.649	2.659	3.2	19.0
7 10	17 53.93	-27 45.4	1.474	2.455	8.0	21.3	7 10	17 55.46	-27 45.2	1.688	2.669	7.3	19.3
7 20	17 46.22	-27 36.3	1.537	2.465	12.2	21.5	7 20	17 48.25	-27 55.4	1.752	2.679	11.1	19.5
7 30	17 41.38	-27 24.1	1.620	2.475	15.7	21.8	7 30	17 43.53	-28 0.9	1.838	2.689	14.3	19.8
438122	2005 <i>QM</i> ₂₇		6 23.7 228°53	3°0/23.9	18		480684	2015 <i>PE</</i>					

EPHEMERIDES

6 23.7

6 23.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
476550	2008 <i>JQ</i> ₁₀		6 23.7 339°98	2.4/23.4	18		503850	4150 <i>T</i> ₋₃		6 23.7 277°43	4.3/23.2	18	
5 21	18 35.22	-28 22.1	2.202	3.064	11.7	21.4	5 21	18 40.76	-31 16.8	1.620	2.487	15.0	21.6
5 31	18 29.92	-29 4.7	2.127	3.063	8.8	21.2	5 31	18 35.10	-32 7.0	1.527	2.463	11.5	21.3
6 10	18 22.63	-29 45.6	2.076	3.061	5.5	21.0	6 10	18 26.33	-32 54.5	1.456	2.439	7.7	21.0
6 20	18 13.98	-30 21.8	2.051	3.060	2.7	20.8	6 20	18 15.16	-33 33.4	1.409	2.414	4.6	20.8
6 30	18 4.87	-30 50.6	2.053	3.059	3.4	20.8	6 30	18 2.87	-33 58.5	1.387	2.389	5.5	20.7
7 10	17 56.29	-31 10.8	2.084	3.058	6.6	21.0	7 10	17 51.07	-34 7.6	1.391	2.363	9.4	20.9
7 20	17 49.11	-31 22.9	2.139	3.057	9.8	21.2	7 20	17 41.25	-34 2.2	1.419	2.338	13.7	21.1
7 30	17 44.01	-31 28.5	2.218	3.056	12.6	21.4	7 30	17 34.58	-33 46.4	1.466	2.312	17.6	21.3
477728	2010 <i>TX</i> ₃		6 23.7 244°53	3.9/23.5	18		284950	2010 <i>EO</i> ₁₂₆		6 23.7 19°36	3.6/24.5	18	
5 21	18 36.72	-35 27.7	2.520	3.366	11.0	21.9	5 21	18 34.63	-12 7.8	1.699	2.559	14.7	19.7
5 31	18 30.91	-35 54.2	2.437	3.358	8.5	21.7	5 31	18 29.70	-12 32.0	1.630	2.562	11.2	19.5
6 10	18 23.16	-36 13.9	2.378	3.350	6.0	21.6	6 10	18 22.59	-13 8.6	1.584	2.565	7.5	19.3
6 20	18 14.12	-36 23.8	2.346	3.342	4.1	21.4	6 20	18 14.01	-13 56.4	1.562	2.568	4.1	19.1
6 30	18 4.66	-36 22.1	2.341	3.333	4.5	21.5	6 30	18 4.95	-14 53.4	1.567	2.572	4.4	19.1
7 10	17 55.74	-36 8.8	2.363	3.325	6.7	21.6	7 10	17 56.53	-15 56.3	1.597	2.576	7.8	19.3
7 20	17 48.19	-35 45.6	2.411	3.316	9.4	21.7	7 20	17 49.70	-17 2.0	1.653	2.580	11.6	19.6
7 30	17 42.67	-35 15.5	2.483	3.307	11.9	21.9	7 30	17 45.18	-18 7.7	1.730	2.585	14.9	19.8
20163	1996 <i>UG</i>		6 23.7 268°11	4.8/23.1	18		186924	2004 <i>PD</i> ₆₀		6 23.7 258°55	2.3/23.8	18	
5 21	18 41.36	-32 12.4	1.596	2.462	15.2	18.5	5 21	18 32.98	-16 20.0	2.508	3.361	10.8	20.5
5 31	18 35.54	-33 8.1	1.509	2.444	11.8	18.2	5 31	18 27.94	-16 6.3	2.418	3.348	8.1	20.3
6 10	18 26.57	-34 0.0	1.444	2.425	8.0	18.0	6 10	18 21.32	-15 56.5	2.352	3.335	5.2	20.1
6 20	18 15.20	-34 42.0	1.402	2.405	5.1	17.8	6 20	18 13.64	-15 50.8	2.313	3.321	2.7	19.9
6 30	18 2.75	-35 8.6	1.387	2.386	5.9	17.8	6 30	18 5.57	-15 49.4	2.303	3.308	3.2	19.9
7 10	17 50.90	-35 17.6	1.396	2.366	9.7	17.9	7 10	17 57.89	-15 52.4	2.320	3.294	6.0	20.1
7 20	17 41.14	-35 10.9	1.429	2.345	13.8	18.1	7 20	17 51.27	-15 59.5	2.363	3.280	9.0	20.3
7 30	17 34.61	-34 53.0	1.481	2.325	17.5	18.3	7 30	17 46.29	-16 10.4	2.430	3.266	11.7	20.4
84529	2002 <i>UK</i> ₁₀		6 23.7 204°96	0°1/23.7	18		333111	2011 <i>UD</i> ₃₈₉		6 23.8 278°09	4.6/23.5	18	
5 21	18 38.77	-22 41.8	1.882	2.745	13.4	20.6	5 21	18 37.65	-35 38.2	2.141	2.993	12.4	20.5
5 31	18 32.73	-22 58.1	1.804	2.742	9.9	20.4	5 31	18 31.93	-36 10.1	2.061	2.985	9.7	20.3
6 10	18 24.40	-23 16.0	1.748	2.737	6.0	20.2	6 10	18 23.93	-36 34.3	2.003	2.976	6.8	20.1
6 20	18 14.49	-23 33.5	1.719	2.733	1.7	19.9	6 20	18 14.39	-36 47.3	1.972	2.968	4.7	19.9
6 30	18 4.06	-23 48.7	1.717	2.728	2.8	19.9	6 30	18 4.33	-36 46.3	1.966	2.959	5.2	20.0
7 10	17 54.24	-24 0.9	1.742	2.722	7.1	20.2	7 10	17 54.90	-36 31.6	1.988	2.951	7.7	20.1
7 20	17 46.05	-24 10.3	1.792	2.716	11.0	20.4	7 20	17 47.11	-36 5.3	2.034	2.942	10.7	20.3
7 30	17 40.26	-24 17.9	1.865	2.710	14.4	20.6	7 30	17 41.70	-35 31.0	2.102	2.934	13.5	20.4
252180	2001 <i>DH</i> ₇₆		6 23.7 160°73	3°0/23.9	17		478049	2011 <i>SO</i> ₂₆₁		6 23.8 247°78	1°0/23.7	18	
5 21	18 38.65	-15 59.2	1.792	2.650	14.1	21.3	5 21	18 35.69	-25 51.7	2.173	3.036	11.8	22.3
5 31	18 32.50	-15 45.2	1.723	2.655	10.7	21.1	5 31	18 30.24	-26 5.2	2.092	3.029	8.8	22.1
6 10	18 24.17	-15 37.3	1.677	2.660	6.9	20.9	6 10	18 22.82	-26 17.5	2.034	3.022	5.3	21.9
6 20	18 14.41	-15 35.4	1.656	2.664	3.4	20.7	6 20	18 14.07	-26 26.7	2.002	3.016	1.8	21.6
6 30	18 4.26	-15 39.5	1.662	2.668	4.1	20.7	6 30	18 4.87	-26 31.6	1.999	3.009	2.7	21.7
7 10	17 54.83	-15 49.2	1.695	2.671	7.7	20.9	7 10	17 56.21	-26 31.8	2.022	3.002	6.3	21.9
7 20	17 47.07	-16 3.9	1.753	2.674	11.4	21.2	7 20	17 48.95	-26 28.1	2.072	2.995	9.8	22.1
7 30	17 41.66	-16 22.9	1.833	2.676	14.7	21.4	7 30	17 43.75	-26 22.0	2.144	2.988	12.8	22.3
111663	2002 <i>BS</i> ₄		6 23.7 146°34	6°6/22.8	18		99902	2002 <i>QZ</i> ₄₇		6 23.8 268°07	0°5/23.7	18	
5 21	18 40.23	-42 7.1	2.398	3.226	12.0	20.0	5 21	18 39.07	-23 55.0	1.705	2.573	14.3	20.8
5 31	18 33.80	-43 10.7	2.331	3.229	9.8	19.8	5 31	18 33.41	-24 6.3	1.611	2.552	10.7	20.5
6 10	18 25.03	-44 3.7	2.287	3.232	7.8	19.7	6 10	18 25.09	-24 18.4	1.539	2.529	6.5	20.2
6 20	18 14.67	-44 41.5	2.269	3.235	6.7	19.6	6 20	18 14.79	-24 29.0	1.493	2.507	1.9	19.9
6 30	18 3.77	-45 0.5	2.277	3.238	7.0	19.7	6 30	18 3.63	-24 36.1	1.472	2.484	3.1	19.9
7 10	17 53.54	-45 0.6	2.311	3.241	8.6	19.8	7 10	17 52.97	-24 39.0	1.479	2.460	8.0	20.2
7 20	17 44.99	-44 44.0	2.370	3.243	10.7	19.9	7 20	17 44.03	-24 38.4	1.509	2.436	12.4	20.4
7 30	17 38.90	-44 14.9	2.450	3.246	12.8	20.1	7 30	17 37.78	-24 36.3	1.561	2.412	16.4	20.6
285972	2001 <i>RK</i> ₁₁₁		6 23.7 186°15	0°8/23.8	17		213218	2000 <i>VJ</i> ₁₈		6 23.8 217°77	0°1/23.7	17	
5 21	18 34.85	-20 34.2	2.152	3.014	12.0	20.6	5 21	18 40.33	-22 16.5	1.873	2.733	13.5	21.2
5 31	18 29.51	-20 39.0	2.077	3.014	8.9	20.4	5 31	18 33.99	-22 38.2	1.788	2.724	10.1	21.0
6 10	18 22.31	-20 46.2	2.025	3.014	5.4	20.2	6 10	18 25.24	-23 2.3	1.726	2.715	6.1	20.7
6 20	18 13.90	-20 54.8	2.000	3.014	1.7	19.9	6 20	18 14.79	-23 26.5	1.691	2.705	1.7	20.4
6 30	18 5.11	-21 4.1	2.003	3.013	2.6	20.0	6 30	18 3.69	-23 48.6	1.683	2.694	2.8	20.5
7 10	17 56.88	-21 13.5	2.032	3.013	6.2	20.2	7 10	17 53.14	-24 7.3	1.703	2.683	7.3	20.7
7 20	17 49.99	-21 22.9	2.088	3.012	9.7	20.4	7 20	17 44.23	-24 22.6	1.748	2.670	11.3	20.9
7 30	17 45.07	-21 32.8	2.167	3.011	12.7	20.6	7 30	17 37.78	-24 35.5	1.815	2.657	14.8	21.1
15726	1990 <i>TG</i> ₅		6 23.7 272°56	1°2/23.7	18		145437	2005 <i>QC</i> ₉₄		6 23.8 332°38	0°8/23.7	18	
5 21	18 40.03	-26 17.4	1.495	2.369	15.6	18.6	5 21	18 30.96	-25 5.3	2.558	3.422	10.2	19.3
5 31	18 34.42	-26 17.8	1.406	2.349	11.7	18.3	5 31	18 26.54	-25 24.7	2.472	3.411	7.6	19.1
6 10	18 25.80	-26 15.5	1.339	2.329	7.2	18.0	6 10	18 20.53	-25 44.0	2.411	3.400	4.6	18.9
6 20	18 14.97	-26 7.9	1.295	2.309	2.3	17.6	6 20	18 13.44	-26 1.8	2.376	3.390	1.5	18.6
6 30	18 3.23	-25 53.3	1.277	2.288	3.6	17.7	6 30	18 5.97	-26 16.7	2.369	3.379	2.3	18.7
7 10	17 52.15	-25 32.3	1.285	2.267	8.7	17.9	7 10	17 58.89	-26 28.1	2.390	3.370	5.5	18.9
7 20	17 43.13	-25 7.2	1.315	2.246	13.6	18.1	7 20	17 52.90	-26 36.2	2.437	3.361	8.5	19.1
7 30	17 37.21	-24 41.5	1.366	2.225	17.9	18.3	7 30	17 48.55	-26 41.5	2.507	3.352	11.2	19.2
425990	2011 <i>HV</i> ₈₄		6 23.7 62°75	9°0/24.4	17		162414	2000 <i>EL</</i>					

EPHEMERIDES

6 23.8

6 23.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
185646	3217 T_{-2}		6 23.8 275°13	3°2/23.9	18		76016	2000 DU_{30}		6 23.8 255°37	0°1/23.8	18	
5 21	18 33.27	-13 54.1	2.318	3.169	11.6	20.7	5 21	18 36.19	-23 46.0	2.049	2.913	12.4	19.6
5 31	18 28.32	-13 39.5	2.224	3.151	8.9	20.5	5 31	18 30.71	-23 43.4	1.964	2.903	9.2	19.4
6 10	18 21.64	-13 30.9	2.153	3.132	6.0	20.3	6 10	18 23.16	-23 40.4	1.904	2.893	5.6	19.2
6 20	18 13.77	-13 28.8	2.109	3.113	3.5	20.1	6 20	18 14.22	-23 35.7	1.869	2.883	1.6	18.9
6 30	18 5.43	-13 33.5	2.092	3.094	4.0	20.1	6 30	18 4.81	-23 28.9	1.862	2.873	2.6	18.9
7 10	17 57.45	-13 44.9	2.103	3.074	6.8	20.3	7 10	17 55.95	-23 20.0	1.882	2.863	6.6	19.2
7 20	17 50.59	-14 2.3	2.139	3.055	9.9	20.4	7 20	17 48.54	-23 10.0	1.927	2.852	10.3	19.4
7 30	17 45.47	-14 24.8	2.198	3.035	12.8	20.6	7 30	17 43.28	-23 0.3	1.995	2.842	13.5	19.5
9523	Torino		6 23.8 91°65	1°6/23.9	18		478247	2011 UX_{359}		6 23.8 23°73	5°5/23.4	16	
5 21	18 38.64	-19 9.3	1.590	2.459	15.1	18.1	5 21	18 33.45	-10 10.1	2.050	2.899	13.0	21.0
5 31	18 32.67	-19 10.5	1.533	2.473	11.2	17.9	5 31	18 28.43	-9 14.8	1.981	2.900	10.3	20.9
6 10	18 24.33	-19 16.2	1.499	2.488	6.8	17.7	6 10	18 21.66	-8 27.5	1.935	2.901	7.5	20.7
6 20	18 14.51	-19 25.2	1.489	2.502	2.5	17.4	6 20	18 13.77	-7 50.6	1.913	2.903	5.6	20.6
6 30	18 4.36	-19 36.4	1.506	2.516	3.3	17.5	6 30	18 5.59	-7 26.0	1.919	2.905	6.0	20.6
7 10	17 55.13	-19 49.2	1.548	2.530	7.7	17.8	7 10	17 57.99	-7 14.5	1.950	2.907	8.3	20.7
7 20	17 47.81	-20 3.3	1.615	2.543	11.7	18.1	7 20	17 51.70	-7 15.6	2.006	2.909	11.1	20.9
7 30	17 43.07	-20 18.6	1.703	2.556	15.1	18.3	7 30	17 47.31	-7 27.6	2.083	2.911	13.7	21.1
477907	2011 KW_{32}		6 23.8 297°12	1°1/23.6	18		23208	2000 SO_{279}		6 23.8 243°60	0°2/23.8	18	
5 21	18 36.26	-23 59.9	1.718	2.590	14.0	20.8	5 21	18 34.73	-21 14.9	2.315	3.175	11.3	18.8
5 31	18 31.35	-24 37.2	1.627	2.570	10.5	20.6	5 31	18 29.44	-21 42.6	2.233	3.169	8.4	18.6
6 10	18 23.87	-25 17.6	1.559	2.549	6.4	20.3	6 10	18 22.33	-22 13.2	2.174	3.163	5.0	18.4
6 20	18 14.48	-25 57.8	1.515	2.529	2.0	20.0	6 20	18 13.99	-22 45.1	2.143	3.157	1.4	18.1
6 30	18 4.24	-26 34.4	1.498	2.508	3.3	20.0	6 30	18 5.20	-23 16.3	2.140	3.151	2.3	18.2
7 10	17 54.44	-27 5.3	1.507	2.488	7.8	20.2	7 10	17 56.85	-23 45.5	2.165	3.145	5.9	18.4
7 20	17 46.29	-27 29.8	1.539	2.468	12.2	20.4	7 20	17 49.72	-24 12.1	2.216	3.139	9.3	18.6
7 30	17 40.74	-27 48.9	1.593	2.448	15.9	20.6	7 30	17 44.45	-24 36.2	2.291	3.132	12.2	18.8
440647	2005 WY_{135}		6 23.8 328°06	1°1/23.7	18		479637	2014 DF_{46}		6 23.8 322°16	0°3/23.8	18	
5 21	18 33.17	-21 48.0	1.854	2.727	13.1	20.7	5 21	18 34.70	-21 4.7	1.873	2.742	13.1	20.5
5 31	18 28.62	-21 23.9	1.771	2.714	9.8	20.4	5 31	18 29.77	-21 28.9	1.795	2.736	9.8	20.3
6 10	18 21.97	-20 59.9	1.710	2.701	5.9	20.2	6 10	18 22.68	-21 56.9	1.740	2.731	5.9	20.1
6 20	18 13.88	-20 36.0	1.675	2.688	2.0	19.9	6 20	18 14.11	-22 26.8	1.711	2.725	1.7	19.8
6 30	18 5.32	-20 12.8	1.665	2.676	3.0	19.9	6 30	18 5.01	-22 56.3	1.709	2.720	2.7	19.8
7 10	17 57.34	-19 51.3	1.682	2.665	7.1	20.2	7 10	17 56.47	-23 24.1	1.733	2.715	6.9	20.1
7 20	17 50.86	-19 32.6	1.724	2.654	11.0	20.4	7 20	17 49.43	-23 49.4	1.782	2.711	10.8	20.3
7 30	17 46.59	-19 18.0	1.787	2.644	14.4	20.6	7 30	17 44.65	-24 12.4	1.853	2.706	14.1	20.5
393873	2005 TE_{24}		6 23.8 314°05	2°4/23.5	18		184237	2004 RM_{206}		6 23.8 346°45	5°1/23.4	18	R
5 21	18 34.81	-28 36.9	1.964	2.832	12.7	20.8	5 21	18 33.04	-11 3.8	2.125	2.975	12.6	19.6
5 31	18 29.93	-29 6.0	1.879	2.818	9.5	20.5	5 31	18 28.10	-10 7.1	2.052	2.973	9.9	19.4
6 10	18 22.82	-29 32.8	1.818	2.805	6.0	20.3	6 10	18 21.46	-9 17.3	2.002	2.971	7.1	19.2
6 20	18 14.14	-29 54.5	1.782	2.793	2.8	20.1	6 20	18 13.73	-8 36.7	1.978	2.970	5.2	19.1
6 30	18 4.87	-30 8.5	1.773	2.780	3.6	20.1	6 30	18 5.70	-8 7.2	1.981	2.969	5.7	19.1
7 10	17 56.13	-30 14.1	1.790	2.768	7.2	20.3	7 10	17 58.20	-7 49.9	2.009	2.967	8.0	19.2
7 20	17 48.93	-30 12.1	1.832	2.756	10.8	20.5	7 20	17 51.97	-7 44.5	2.063	2.966	10.8	19.4
7 30	17 44.04	-30 4.5	1.896	2.744	14.0	20.7	7 30	17 47.58	-7 50.0	2.138	2.966	13.4	19.6
7555	Vennikov		6 23.8 265°47	0°5/23.7	18		499368	2010 AT_1		6 23.8 171°61	0°2/23.8	17	
5 21	18 39.14	-23 46.6	1.665	2.535	14.5	18.4	5 21	18 37.88	-21 55.8	2.371	3.223	11.3	23.0
5 31	18 33.52	-24 1.3	1.574	2.515	10.9	18.2	5 31	18 31.60	-22 8.2	2.295	3.228	8.4	22.8
6 10	18 25.18	-24 17.1	1.505	2.495	6.6	17.9	6 10	18 23.54	-22 21.9	2.244	3.231	5.0	22.6
6 20	18 14.85	-24 31.8	1.461	2.475	1.9	17.5	6 20	18 14.31	-22 35.4	2.220	3.234	1.4	22.4
6 30	18 3.66	-24 43.0	1.443	2.454	3.2	17.6	6 30	18 4.74	-22 47.7	2.225	3.236	2.3	22.4
7 10	17 52.99	-24 49.8	1.451	2.433	8.0	17.8	7 10	17 55.70	-22 58.3	2.259	3.237	5.8	22.7
7 20	17 44.09	-24 52.9	1.484	2.412	12.6	18.0	7 20	17 47.96	-23 7.1	2.319	3.238	9.1	22.9
7 30	17 37.94	-24 54.0	1.537	2.390	16.5	18.2	7 30	17 42.13	-23 15.0	2.404	3.238	11.9	23.1
141411	2002 AB_{182}		6 23.8 81°94	2°0/23.6	18		270413	2002 CN_{16}		6 23.8 97°87	3°7/23.9	17	
5 21	18 35.85	-28 6.3	2.200	3.061	11.8	20.0	5 21	18 40.66	-32 55.0	1.764	2.625	14.2	20.5
5 31	18 30.29	-28 36.9	2.134	3.069	8.8	19.8	5 31	18 34.24	-33 7.9	1.702	2.634	10.8	20.3
6 10	18 22.81	-29 5.2	2.091	3.078	5.4	19.6	6 10	18 25.31	-33 12.7	1.662	2.644	7.1	20.1
6 20	18 14.09	-29 28.5	2.075	3.086	2.4	19.4	6 20	18 14.81	-33 6.3	1.648	2.653	4.0	20.0
6 30	18 5.03	-29 44.9	2.087	3.094	3.2	19.5	6 30	18 3.99	-32 47.0	1.659	2.662	4.6	20.0
7 10	17 56.59	-29 53.9	2.126	3.102	6.3	19.7	7 10	17 54.16	-32 16.4	1.697	2.671	7.9	20.2
7 20	17 49.59	-29 56.3	2.191	3.111	9.5	19.9	7 20	17 46.35	-31 37.8	1.760	2.680	11.4	20.5
7 30	17 44.66	-29 53.8	2.279	3.119	12.3	20.1	7 30	17 41.27	-30 55.5	1.844	2.689	14.5	20.7
422725	2001 FM_{89}		6 23.8 113°31	2°1/23.7	17		174760	2003 VP_9		6 23.8 276°99	1°0/23.8	18	
5 21	18 40.92	-27 29.7	1.604	2.473	15.0	21.9	5 21	18 38.66	-21 10.3	1.581	2.452	15.0	20.4
5 31	18 34.56	-27 53.2	1.544	2.484	11.2	21.7	5 31	18 33.28	-21 5.5	1.486	2.428	11.3	20.1
6 10	18 25.57	-28 13.7	1.506	2.494	6.9	21.5	6 10	18 25.12	-21 2.8	1.413	2.403	7.0	19.8
6 20	18 14.88	-28 28.1	1.492	2.504	2.7	21.3	6 20	18 14.88	-21 1.3	1.364	2.378	2.2	19.4
6 30	18 3.78	-28 33.9	1.505	2.514	3.7	21.3	6 30	18 3.70	-21 0.0	1.341	2.352	3.4	19.4
7 10	17 53.65	-28 31.1	1.544	2.524	7.9	21.6	7 10	17 53.00	-20 58.9	1.344	2.326	8.5	19.7
7 20	17 45.62	-28 21.8	1.608	2.533	11.9	21.9	7 20	17 44.08	-20 58.5	1.370	2.300	13.3	19.9
7 30	17 40.41	-28 8.7	1.692	2.542	15.4	22.1	7 30	17 37.97	-21 0.2	1.417	2.273	17.5	20.1
176434	2001 VD_{120}		6 23.8 254°32	2°3/23.6	18		184714	2005 SJ_{150}		6 23.8 100°90	0°5/23.8	18	
5 21	18 36.20												

EPHEMERIDES

6 23.8

6 23.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
359442	2010 <i>MG</i> ₈₆		6 23.8 275°02	12°0/21.9	18		472188	2014 <i>DG</i> ₁₁₆		6 23.8 213°08	1°0/23.7	17	
5 21	18 52.18	-60 16.9	2.433	3.168	14.4	21.5	5 21	18 36.17	-25 51.7	2.150	3.012	12.0	21.6
5 31	18 44.10	-61 35.2	2.363	3.156	13.3	21.4	5 31	18 30.60	-26 3.6	2.073	3.010	8.9	21.4
6 10	18 31.95	-62 33.7	2.311	3.143	12.4	21.3	6 10	18 23.07	-26 14.3	2.019	3.008	5.4	21.2
6 20	18 16.80	-63 4.6	2.280	3.129	12.0	21.3	6 20	18 14.23	-26 21.8	1.992	3.005	1.8	20.9
6 30	18 0.59	-63 2.9	2.271	3.116	12.2	21.3	6 30	18 4.97	-26 24.9	1.992	3.002	2.7	21.0
7 10	17 45.60	-62 28.6	2.283	3.103	13.0	21.3	7 10	17 56.30	-26 23.5	2.020	2.999	6.3	21.2
7 20	17 33.71	-61 26.3	2.314	3.090	14.1	21.4	7 20	17 49.05	-26 18.3	2.073	2.996	9.8	21.4
7 30	17 26.04	-60 3.5	2.364	3.076	15.4	21.5	7 30	17 43.89	-26 10.9	2.150	2.993	12.8	21.6
507032	2008 <i>UW</i> ₁₃₃		6 23.8 168°60	0°6/23.7	17		389430	2010 <i>CW</i> ₃₀		6 23.8 96°09	6°2/24.8	18	
5 21	18 37.37	-25 6.6	2.603	3.454	10.5	23.8	5 21	18 34.96	-5 50.8	1.863	2.701	14.5	20.7
5 31	18 31.10	-25 16.9	2.527	3.459	7.7	23.7	5 31	18 29.72	-5 44.0	1.796	2.706	11.7	20.5
6 10	18 23.19	-25 26.1	2.476	3.463	4.7	23.5	6 10	18 22.54	-5 52.1	1.751	2.711	8.7	20.4
6 20	18 14.21	-25 32.7	2.453	3.467	1.4	23.2	6 20	18 14.08	-6 16.2	1.730	2.716	6.6	20.3
6 30	18 4.94	-25 36.0	2.460	3.470	2.2	23.3	6 30	18 5.24	-6 55.8	1.735	2.720	6.6	20.3
7 10	17 56.19	-25 35.6	2.495	3.472	5.4	23.5	7 10	17 57.01	-7 48.9	1.766	2.725	8.8	20.4
7 20	17 48.66	-25 32.3	2.557	3.474	8.4	23.7	7 20	17 50.22	-8 52.1	1.821	2.730	11.7	20.6
7 30	17 42.91	-25 27.3	2.644	3.475	11.0	23.9	7 30	17 45.52	-10 1.7	1.898	2.735	14.5	20.8
340490	2006 <i>HD</i> ₈₇		6 23.8 245°66	3°0/23.9	17		276018	2002 <i>AD</i> ₇		6 23.8 256°41	4°4/23.7	18	
5 21	18 35.32	-15 47.0	1.913	2.773	13.3	21.0	5 21	18 36.22	-12 56.8	1.942	2.795	13.4	20.9
5 31	18 30.07	-15 31.6	1.835	2.768	10.1	20.8	5 31	18 30.80	-12 24.0	1.852	2.778	10.4	20.6
6 10	18 22.79	-15 21.9	1.780	2.763	6.5	20.6	6 10	18 23.30	-11 57.9	1.785	2.762	7.2	20.4
6 20	18 14.14	-15 18.3	1.750	2.758	3.4	20.3	6 20	18 14.33	-11 39.9	1.744	2.744	4.6	20.2
6 30	18 5.05	-15 20.9	1.747	2.752	4.0	20.4	6 30	18 4.80	-11 31.3	1.729	2.727	5.1	20.2
7 10	17 56.52	-15 29.5	1.771	2.747	7.4	20.6	7 10	17 55.73	-11 32.5	1.741	2.709	8.2	20.3
7 20	17 49.44	-15 43.6	1.819	2.741	11.0	20.8	7 20	17 48.05	-11 43.0	1.777	2.691	11.7	20.5
7 30	17 44.51	-16 2.4	1.890	2.736	14.2	21.0	7 30	17 42.49	-12 1.8	1.835	2.672	14.9	20.7
115503	2003 <i>UP</i> ₂₈		6 23.8 221°91	0°5/23.8	17		288366	2004 <i>CB</i> ₁₅		6 23.8 31°08	2°8/23.7	17	
5 21	18 39.34	-24 7.9	1.618	2.489	14.8	21.0	5 21	18 37.51	-28 12.4	1.221	2.110	17.3	20.1
5 31	18 33.51	-24 17.4	1.543	2.485	11.0	20.7	5 31	18 32.66	-28 38.4	1.170	2.120	13.0	19.8
6 10	18 25.06	-24 27.0	1.490	2.480	6.7	20.4	6 10	18 24.71	-29 0.7	1.138	2.130	8.0	19.6
6 20	18 14.81	-24 34.5	1.461	2.476	1.9	20.1	6 20	18 14.72	-29 15.1	1.129	2.141	3.5	19.4
6 30	18 3.95	-24 38.2	1.459	2.470	3.1	20.2	6 30	18 4.28	-29 18.8	1.143	2.152	4.5	19.4
7 10	17 53.86	-24 37.9	1.483	2.465	7.9	20.5	7 10	17 55.06	-29 12.1	1.181	2.165	9.2	19.8
7 20	17 45.67	-24 34.5	1.531	2.460	12.2	20.7	7 20	17 48.34	-28 57.7	1.240	2.178	13.7	20.0
7 30	17 40.24	-24 30.0	1.600	2.454	15.9	20.9	7 30	17 44.91	-28 39.1	1.319	2.191	17.6	20.3
161693	Attiladanko		6 23.8 339°08	1°5/24.1	18		320701	2008 <i>DU</i> ₂₉		6 23.8 18°06	5°3/24.2	17	
5 21	18 31.03	-16 51.9	1.273	2.163	16.7	18.2	5 21	18 35.41	-11 33.2	1.395	2.265	16.8	20.5
5 31	18 28.01	-17 37.5	1.192	2.144	12.6	17.9	5 31	18 30.65	-11 14.5	1.332	2.267	13.0	20.3
6 10	18 22.13	-18 36.9	1.132	2.125	7.9	17.6	6 10	18 23.35	-11 8.4	1.289	2.269	9.0	20.0
6 20	18 14.07	-19 47.8	1.094	2.107	2.8	17.2	6 20	18 14.35	-11 16.1	1.269	2.271	5.8	19.9
6 30	18 5.05	-21 5.9	1.079	2.091	3.7	17.2	6 30	18 4.84	-11 37.8	1.273	2.273	6.1	19.9
7 10	17 56.56	-22 25.8	1.088	2.077	9.1	17.5	7 10	17 56.15	-12 11.8	1.301	2.276	9.6	20.1
7 20	17 50.01	-23 43.0	1.119	2.064	14.1	17.7	7 20	17 49.36	-12 55.2	1.352	2.280	13.6	20.3
7 30	17 46.51	-24 54.5	1.169	2.053	18.6	18.0	7 30	17 45.28	-13 45.2	1.422	2.283	17.2	20.6
123655	2000 <i>YK</i> ₇₄		6 23.8 251°94	0°2/23.8	18		10737	Brück		6 23.8 351°99	25°4/25.9	18	
5 21	18 37.50	-24 11.8	1.973	2.836	12.8	20.0	5 21	18 29.59	+15 57.7	0.857	1.674	28.9	17.3
5 31	18 31.80	-24 10.1	1.885	2.824	9.6	19.8	5 31	18 27.36	+18 31.7	0.819	1.668	27.4	17.1
6 10	18 23.90	-24 7.8	1.821	2.810	5.8	19.5	6 10	18 21.84	+20 18.8	0.792	1.663	26.2	17.0
6 20	18 14.47	-24 3.2	1.783	2.797	1.6	19.2	6 20	18 14.00	+21 5.3	0.775	1.659	25.5	16.9
6 30	18 4.49	-23 55.8	1.772	2.783	2.7	19.3	6 30	18 5.40	+20 42.5	0.771	1.657	25.5	16.9
7 10	17 55.07	-23 45.5	1.788	2.769	6.9	19.5	7 10	17 57.81	+19 11.5	0.778	1.656	26.1	16.9
7 20	17 47.16	-23 33.7	1.829	2.754	10.8	19.7	7 20	17 52.69	+16 41.9	0.797	1.657	27.3	17.0
7 30	17 41.54	-23 21.9	1.893	2.740	14.1	19.9	7 30	17 51.09	+13 28.9	0.828	1.659	28.9	17.2
503623	2016 <i>GK</i> ₁₃₂		6 23.8 49°02	4°5/23.7	17		515845	2015 <i>OY</i> ₂₇		6 23.8 298°67	4°3/24.2	18	
5 21	18 37.35	-15 31.8	1.347	2.223	16.9	21.2	5 21	18 32.46	-10 26.3	2.188	3.035	12.3	21.4
5 31	18 32.09	-14 47.7	1.287	2.227	12.8	20.9	5 31	18 27.87	-10 19.7	2.093	3.014	9.7	21.2
6 10	18 24.18	-14 10.5	1.247	2.232	8.5	20.7	6 10	18 21.49	-10 22.7	2.020	2.992	6.8	21.0
6 20	18 14.54	-13 42.2	1.230	2.236	4.9	20.5	6 20	18 13.83	-10 36.0	1.973	2.970	4.6	20.8
6 30	18 4.47	-13 24.4	1.238	2.241	5.6	20.6	6 30	18 5.64	-10 59.8	1.953	2.949	4.9	20.8
7 10	17 55.36	-13 18.0	1.269	2.246	9.6	20.8	7 10	17 57.79	-11 33.2	1.959	2.927	7.4	20.9
7 20	17 48.33	-13 22.3	1.323	2.252	13.8	21.1	7 20	17 51.05	-12 14.6	1.991	2.906	10.5	21.1
7 30	17 44.15	-13 36.1	1.397	2.257	17.5	21.3	7 30	17 46.12	-13 1.8	2.045	2.884	13.5	21.2
4332	Milton		6 23.8 302°61	12°9/23.1	18		444404	2006 <i>AO</i> ₃₁		6 23.8 218°86	3°4/24.1	18	
5 21	18 33.79	+ 5 34.7	1.679	2.478	17.5	16.8	5 21	18 38.66	-36 53.8	2.929	3.762	9.9	21.7
5 31	18 29.45	+ 6 44.8	1.582	2.443	15.7	16.6	5 31	18 32.05	-36 52.1	2.841	3.754	7.7	21.5
6 10	18 22.74	+ 7 34.3	1.505	2.408	14.0	16.4	6 10	18 23.76	-36 42.1	2.778	3.746	5.4	21.3
6 20	18 14.23	+ 7 56.3	1.447	2.373	13.0	16.2	6 20	18 14.41	-36 21.8	2.742	3.738	3.7	21.2
6 30	18 4.80	+ 7 45.6	1.412	2.337	13.3	16.2	6 30	18 4.80	-35 50.5	2.735	3.729	3.9	21.2
7 10	17 55.63	+ 7 0.7	1.397	2.302	14.9	16.2	7 10	17 55.75	-35 9.3	2.758	3.719	5.9	21.3
7 20	17 47.81	+ 5 44.1	1.403	2.267	17.3	16.2	7 20	17 47.99	-34 20.5	2.807	3.710	8.3	21.5
7 30	17 42.31	+ 4 1.9	1.427	2.231	20.0	16.3	7 30	17 42.05	-33 27.1	2.881	3.700	10.5	21.6
330838	2009 <i>ND</i>		6 23.8 321°69	15°6/17.4	18		177043	2003 <i>DL</i> ₁₈					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
384977	2012 <i>TH</i> ₁₆₉		6 23.8 287°02	2.2/24.0	18		277406	2005 <i>UJ</i> ₂₀₄		6 23.8 151°75	4.3/23.7	17	
5 21	18 35.05	-16 36.6	1.867	2.730	13.4	20.9	5 21	18 37.20	-12 48.7	2.057	2.904	13.0	21.5
5 31	18 29.98	-16 44.3	1.790	2.726	10.1	20.7	5 31	18 31.19	-12 9.5	1.988	2.911	10.0	21.4
6 10	18 22.81	-16 58.6	1.735	2.721	6.4	20.5	6 10	18 23.34	-11 36.9	1.944	2.918	6.9	21.2
6 20	18 14.20	-17 18.8	1.706	2.717	2.8	20.2	6 20	18 14.34	-11 12.3	1.925	2.924	4.5	21.0
6 30	18 5.11	-17 43.9	1.703	2.712	3.4	20.3	6 30	18 5.05	-10 57.0	1.934	2.930	4.9	21.1
7 10	17 56.57	-18 12.4	1.728	2.707	7.2	20.5	7 10	17 56.40	-10 51.2	1.970	2.935	7.6	21.3
7 20	17 49.51	-18 43.1	1.776	2.703	10.9	20.7	7 20	17 49.17	-10 54.5	2.031	2.940	10.7	21.5
7 30	17 44.64	-19 15.2	1.848	2.699	14.2	20.9	7 30	17 43.95	-11 6.0	2.115	2.944	13.5	21.7
136537	2006 <i>LX</i> ₆		6 23.8 322°72	6.1/24.5	18		69320	1993 <i>FJ</i> ₃₀		6 23.8 27°07	13.3/24.7	18	
5 21	18 32.85	-10 32.7	1.185	2.066	18.3	19.3	5 21	18 32.05	+ 2 10.5	1.250	2.090	20.1	17.8
5 31	18 29.43	-10 24.6	1.107	2.047	14.5	19.0	5 31	18 28.05	+ 3 50.7	1.215	2.107	17.3	17.7
6 10	18 23.03	-10 33.4	1.047	2.028	10.2	18.7	6 10	18 21.68	+ 5 3.9	1.198	2.124	14.9	17.6
6 20	18 14.38	-11 1.5	1.008	2.010	6.6	18.4	6 20	18 13.88	+ 5 43.6	1.200	2.143	13.5	17.5
6 30	18 4.73	-11 48.7	0.991	1.993	6.9	18.4	6 30	18 5.86	+ 5 47.1	1.222	2.163	13.6	17.6
7 10	17 55.67	-12 52.3	0.996	1.977	10.9	18.6	7 10	17 58.84	+ 5 16.4	1.264	2.184	14.9	17.7
7 20	17 48.64	-14 7.5	1.022	1.962	15.7	18.8	7 20	17 53.75	+ 4 17.6	1.325	2.206	17.0	17.9
7 30	17 44.75	-15 29.2	1.067	1.948	20.1	19.0	7 30	17 51.23	+ 2 58.3	1.403	2.229	19.2	18.2
164768	1998 <i>YE</i> ₂₂		6 23.8 102°69	0.1/23.8	17		263958	2009 <i>HU</i> ₁₀₄		6 23.8 229°38	0.6/23.7	17	
5 21	18 36.27	-22 58.0	2.109	2.971	12.2	21.2	5 21	18 39.83	-22 53.6	1.668	2.536	14.6	20.8
5 31	18 30.55	-23 2.0	2.045	2.982	9.0	21.0	5 31	18 33.94	-23 25.1	1.588	2.528	10.9	20.6
6 10	18 22.96	-23 6.4	2.004	2.993	5.4	20.8	6 10	18 25.42	-23 59.5	1.530	2.520	6.6	20.3
6 20	18 14.21	-23 10.1	1.990	3.004	1.5	20.6	6 20	18 15.01	-24 33.9	1.498	2.512	1.9	20.0
6 30	18 5.17	-23 12.2	2.003	3.014	2.4	20.7	6 30	18 3.87	-25 5.1	1.492	2.503	3.1	20.1
7 10	17 56.81	-23 12.6	2.044	3.025	6.2	20.9	7 10	17 53.35	-25 31.3	1.512	2.494	7.8	20.3
7 20	17 49.91	-23 11.8	2.111	3.035	9.6	21.2	7 20	17 44.65	-25 52.2	1.557	2.484	12.2	20.6
7 30	17 45.05	-23 10.8	2.201	3.045	12.5	21.4	7 30	17 38.66	-26 9.1	1.624	2.474	15.9	20.8
321623	2009 <i>WF</i> ₈₈		6 23.8 214°16	0.8/23.8	18		478193	2011 <i>UD</i> ₂₄₄		6 23.8 250°65	3.1/23.6	18	
5 21	18 38.92	-26 30.0	1.850	2.714	13.5	20.7	5 21	18 34.36	-14 47.7	2.496	3.343	11.0	21.9
5 31	18 32.88	-26 18.8	1.773	2.711	10.0	20.5	5 31	18 29.01	-14 14.0	2.403	3.328	8.4	21.7
6 10	18 24.55	-26 4.1	1.719	2.708	6.1	20.2	6 10	18 22.05	-13 44.2	2.335	3.312	5.6	21.5
6 20	18 14.69	-25 44.7	1.691	2.705	1.9	19.9	6 20	18 14.00	-13 19.1	2.293	3.296	3.4	21.3
6 30	18 4.40	-25 20.2	1.690	2.701	2.9	20.0	6 30	18 5.57	-12 59.8	2.280	3.280	3.9	21.3
7 10	17 54.86	-24 51.7	1.716	2.697	7.1	20.2	7 10	17 57.52	-12 47.0	2.295	3.263	6.5	21.5
7 20	17 47.05	-24 21.5	1.767	2.693	11.0	20.5	7 20	17 50.55	-12 40.8	2.336	3.246	9.4	21.6
7 30	17 41.70	-23 52.2	1.840	2.688	14.4	20.7	7 30	17 45.23	-12 41.2	2.400	3.229	12.1	21.8
342162	2008 <i>SU</i> ₁₅₄		6 23.8 283°81	0.8/23.8	18		376946	2002 <i>EC</i> ₄		6 23.8 159°46	1.7/23.7	17	
5 21	18 36.68	-21 1.5	1.793	2.661	13.7	21.7	5 21	18 38.86	-27 39.8	2.000	2.861	12.8	21.7
5 31	18 31.52	-21 6.6	1.698	2.638	10.3	21.4	5 31	18 32.70	-27 53.5	1.929	2.865	9.5	21.5
6 10	18 23.95	-21 14.6	1.624	2.614	6.3	21.1	6 10	18 24.39	-28 4.4	1.881	2.868	5.9	21.3
6 20	18 14.59	-21 24.4	1.576	2.590	1.9	20.8	6 20	18 14.66	-28 9.9	1.859	2.871	2.3	21.1
6 30	18 4.45	-21 34.5	1.555	2.566	3.0	20.8	6 30	18 4.54	-28 8.7	1.865	2.874	3.1	21.2
7 10	17 54.73	-21 44.4	1.559	2.541	7.6	21.0	7 10	17 55.13	-28 0.9	1.899	2.877	6.8	21.4
7 20	17 46.55	-21 54.1	1.589	2.517	11.9	21.2	7 20	17 47.37	-27 48.0	1.957	2.879	10.3	21.6
7 30	17 40.81	-22 4.2	1.639	2.492	15.7	21.4	7 30	17 41.92	-27 32.3	2.039	2.881	13.4	21.8
262722	2006 <i>XL</i> ₂₄		6 23.8 234°84	1.5/23.9	18		115751	2003 <i>UR</i> ₂₀₂		6 23.8 348°18	4.7/22.8	18	
5 21	18 38.33	-18 6.8	1.877	2.737	13.5	21.5	5 21	18 33.75	-28 54.6	1.297	2.187	16.4	17.6
5 31	18 32.52	-18 22.7	1.791	2.726	10.2	21.3	5 31	18 30.23	-30 17.1	1.227	2.177	12.5	17.4
6 10	18 24.42	-18 44.5	1.727	2.714	6.3	21.0	6 10	18 23.56	-31 40.6	1.178	2.168	8.2	17.1
6 20	18 14.69	-19 10.9	1.689	2.702	2.3	20.8	6 20	18 14.56	-32 57.8	1.152	2.159	4.9	16.9
6 30	18 4.32	-19 40.1	1.679	2.689	3.1	20.8	6 30	18 4.59	-34 1.6	1.150	2.153	6.1	16.9
7 10	17 54.44	-20 10.6	1.696	2.676	7.3	21.0	7 10	17 55.37	-34 48.0	1.171	2.147	10.2	17.2
7 20	17 46.06	-20 41.3	1.738	2.662	11.3	21.2	7 20	17 48.39	-35 16.6	1.213	2.143	14.5	17.4
7 30	17 40.02	-21 11.8	1.802	2.648	14.8	21.4	7 30	17 44.76	-35 30.5	1.273	2.141	18.4	17.6
62800	2000 <i>UT</i> ₃₆		6 23.8 181°30	3.3/23.4	18		349027	2006 <i>VG</i> ₂₂		6 23.8 85°34	3.9/23.1	17	
5 21	18 36.88	-32 37.1	2.494	3.344	10.9	20.2	5 21	18 37.73	-32 29.0	2.164	3.019	12.1	20.7
5 31	18 31.04	-33 15.6	2.418	3.344	8.3	20.0	5 31	18 31.93	-33 26.0	2.096	3.025	9.3	20.5
6 10	18 23.32	-33 49.4	2.367	3.345	5.6	19.8	6 10	18 23.98	-34 18.5	2.052	3.030	6.3	20.4
6 20	18 14.34	-34 15.4	2.343	3.344	3.5	19.7	6 20	18 14.57	-35 2.3	2.035	3.035	4.1	20.2
6 30	18 4.95	-34 31.5	2.347	3.344	4.0	19.7	6 30	18 4.67	-35 34.2	2.045	3.041	4.7	20.3
7 10	17 56.09	-34 37.1	2.378	3.344	6.5	19.9	7 10	17 55.38	-35 53.0	2.082	3.046	7.3	20.4
7 20	17 48.55	-34 33.4	2.436	3.343	9.2	20.1	7 20	17 47.64	-35 59.8	2.144	3.051	10.3	20.6
7 30	17 43.00	-34 22.6	2.516	3.342	11.7	20.2	7 30	17 42.18	-35 57.3	2.228	3.056	12.9	20.8
372919	2011 <i>BW</i> ₈		6 23.8 288°23	0.7/23.7	17		441407	2008 <i>FV</i> ₁₃₇		6 23.8 23°88	6.9/25.4	16	
5 21	18 37.95	-23 50.3	1.526	2.402	15.2	21.5	5 21	18 32.27	- 3 43.3	1.808	2.646	14.9	20.0
5 31	18 32.94	-24 9.4	1.435	2.379	11.5	21.2	5 31	18 27.78	- 3 44.5	1.748	2.654	12.1	19.9
6 10	18 25.04	-24 30.4	1.364	2.356	7.0	20.9	6 10	18 21.41	- 4 3.1	1.709	2.664	9.3	19.7
6 20	18 14.95	-24 50.7	1.318	2.332	2.1	20.5	6 20	18 13.84	- 4 40.0	1.694	2.674	7.2	19.6
6 30	18 3.86	-25 7.6	1.297	2.308	3.4	20.5	6 30	18 5.94	- 5 34.3	1.703	2.685	7.1	19.6
7 10	17 53.28	-25 19.7	1.301	2.285	8.6	20.8	7 10	17 58.66	- 6 43.1	1.738	2.696	9.0	19.8
7 20	17 44.56	-25 27.2	1.328	2.261	13.4	21.0	7 20	17 52.81	- 8 2.1	1.797	2.708	11.7	20.0
7 30	17 38.78	-25 31.9	1.376	2.237	17.6	21.2	7 30	17 48.99	- 9 26.8	1.878	2.721	14.4	20.2
33456	Ericacurran		6 23.8 23°90	1.2/23.7	18		16771						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
166013	2002 <i>AD</i> ₁₂₈		6 23.8 112°46'	0°4/23.8	17		151390	2002 <i>ED</i> ₇₁		6 23.8 74°28'	1°8/23.9	17	
5 21	18 41.14	-22 13.6	1.528	2.398	15.5	20.8	5 21	18 33.83	-18 23.1	2.241	3.101	11.6	20.1
5 31	18 34.71	-22 19.5	1.470	2.411	11.5	20.6	5 31	18 28.65	-18 10.0	2.175	3.109	8.7	19.9
6 10	18 25.70	-22 26.9	1.434	2.425	6.9	20.3	6 10	18 21.82	-18 0.1	2.132	3.118	5.4	19.8
6 20	18 15.04	-22 34.1	1.423	2.437	2.0	20.0	6 20	18 13.95	-17 53.3	2.116	3.127	2.3	19.6
6 30	18 4.03	-22 39.6	1.438	2.450	3.1	20.1	6 30	18 5.83	-17 49.6	2.127	3.136	2.9	19.6
7 10	17 54.01	-22 43.1	1.480	2.462	7.9	20.5	7 10	17 58.29	-17 49.1	2.166	3.145	6.1	19.8
7 20	17 46.08	-22 45.4	1.545	2.474	12.1	20.7	7 20	17 52.03	-17 51.6	2.231	3.153	9.2	20.1
7 30	17 40.96	-22 47.8	1.631	2.485	15.7	21.0	7 30	17 47.59	-17 57.2	2.319	3.162	12.0	20.3
352369	2007 <i>VH</i> ₂₄₃		6 23.8 109°95'	2°2/23.8	18		366638	2003 <i>SK</i> ₁₄₃		6 23.8 299°28'	5°5/23.4	18	
5 21	18 36.72	-30 10.0	2.324	3.180	11.4	21.1	5 21	18 37.24	-39 7.7	2.332	3.173	11.9	20.8
5 31	18 30.86	-30 21.1	2.256	3.188	8.5	21.0	5 31	18 31.69	-39 42.7	2.245	3.158	9.5	20.6
6 10	18 23.16	-30 27.8	2.213	3.197	5.4	20.8	6 10	18 23.91	-40 8.7	2.181	3.142	7.2	20.4
6 20	18 14.32	-30 28.0	2.196	3.205	2.6	20.6	6 20	18 14.60	-40 21.7	2.142	3.126	5.6	20.3
6 30	18 5.20	-30 20.7	2.207	3.213	3.2	20.7	6 30	18 4.72	-40 19.1	2.130	3.111	5.9	20.3
7 10	17 56.73	-30 6.2	2.246	3.221	6.1	20.9	7 10	17 55.41	-40 0.8	2.144	3.095	7.9	20.4
7 20	17 49.70	-29 46.2	2.311	3.229	9.1	21.1	7 20	17 47.63	-39 28.9	2.182	3.080	10.5	20.5
7 30	17 44.68	-29 23.1	2.399	3.237	11.8	21.3	7 30	17 42.17	-38 47.4	2.243	3.065	13.0	20.7
379370	2009 <i>WX</i> ₂₄₂		6 23.8 56°24'	1°8/23.9	17		86055	1999 <i>RO</i> ₁₂		6 23.8 180°60'	2°3/23.8	18	
5 21	18 36.65	-19 2.2	1.557	2.431	15.1	20.6	5 21	18 36.48	-30 53.3	2.372	3.227	11.2	19.3
5 31	18 31.31	-18 58.0	1.501	2.443	11.2	20.4	5 31	18 30.72	-30 58.3	2.296	3.227	8.5	19.1
6 10	18 23.63	-18 58.3	1.466	2.456	6.9	20.2	6 10	18 23.11	-30 58.1	2.244	3.227	5.4	18.9
6 20	18 14.46	-19 2.4	1.456	2.469	2.6	20.0	6 20	18 14.33	-30 51.0	2.219	3.227	2.7	18.8
6 30	18 4.98	-19 9.7	1.472	2.482	3.4	20.0	6 30	18 5.22	-30 36.0	2.222	3.227	3.2	18.8
7 10	17 56.39	-19 19.4	1.513	2.495	7.7	20.3	7 10	17 56.73	-30 13.8	2.252	3.227	6.1	19.0
7 20	17 49.66	-19 31.3	1.577	2.509	11.7	20.6	7 20	17 49.64	-29 46.1	2.309	3.227	9.2	19.2
7 30	17 45.48	-19 45.3	1.663	2.522	15.2	20.9	7 30	17 44.53	-29 15.6	2.389	3.226	11.9	19.4
351460	2005 <i>MF</i> ₃₆		6 23.8 323°48'	4°2/24.1	18		389216	2009 <i>DT</i> ₈₁		6 23.8 150°57'	0°6/23.9	17	
5 21	18 37.62	-34 57.0	1.832	2.693	13.8	20.8	5 21	18 35.78	-21 3.3	2.502	3.356	10.8	22.1
5 31	18 32.20	-35 0.7	1.751	2.682	10.7	20.5	5 31	18 29.99	-21 10.3	2.431	3.364	8.0	21.9
6 10	18 24.29	-34 54.6	1.692	2.671	7.3	20.3	6 10	18 22.59	-21 19.0	2.384	3.371	4.8	21.7
6 20	18 14.68	-34 35.6	1.658	2.661	4.5	20.1	6 20	18 14.18	-21 28.3	2.364	3.378	1.5	21.5
6 30	18 4.57	-34 2.3	1.650	2.651	4.9	20.1	6 30	18 5.48	-21 37.5	2.373	3.384	2.2	21.6
7 10	17 55.26	-33 16.1	1.668	2.641	8.0	20.3	7 10	17 57.30	-21 46.1	2.411	3.390	5.5	21.8
7 20	17 47.82	-32 20.9	1.710	2.632	11.6	20.5	7 20	17 50.31	-21 54.1	2.476	3.395	8.5	22.0
7 30	17 43.04	-31 21.3	1.774	2.623	14.8	20.7	7 30	17 45.07	-22 2.1	2.564	3.400	11.2	22.2
56977	2000 <i>SB</i> ₁₇₃		6 23.8 20°17'	5°5/22.4	18		226001	2002 <i>DT</i> ₁₁		6 23.8 152°05'	0°7/23.8	17	
5 21	18 38.11	-19 46.8	1.132	2.022	18.4	17.5	5 21	18 39.30	-22 47.8	2.231	3.084	11.9	20.5
5 31	18 32.78	-17 27.9	1.082	2.031	13.9	17.3	5 31	18 32.66	-22 23.3	2.160	3.093	8.8	20.3
6 10	18 24.59	-15 7.3	1.053	2.042	9.1	17.1	6 10	18 24.20	-21 57.8	2.114	3.101	5.3	20.1
6 20	18 14.72	-12 52.9	1.048	2.054	5.7	16.9	6 20	18 14.62	-21 31.2	2.095	3.109	1.6	19.9
6 30	18 4.70	-10 53.8	1.067	2.067	7.0	17.0	6 30	18 4.80	-21 3.9	2.106	3.116	2.5	20.0
7 10	17 56.04	-9 16.9	1.110	2.082	11.2	17.3	7 10	17 55.67	-20 37.1	2.144	3.123	6.1	20.2
7 20	17 49.83	-8 5.6	1.174	2.098	15.5	17.6	7 20	17 48.00	-20 12.1	2.210	3.128	9.5	20.4
7 30	17 46.69	-7 18.9	1.256	2.115	19.1	17.9	7 30	17 42.36	-19 50.4	2.299	3.134	12.3	20.6
237018	2008 <i>SA</i> ₂₃		6 23.8 213°37'	1°5/23.7	18		377831	2006 <i>BU</i> ₁₁₂		6 23.8 87°75'	0°6/23.9	18	
5 21	18 38.55	-27 16.2	2.147	3.005	12.1	22.2	5 21	18 36.92	-21 3.2	1.764	2.632	13.9	20.6
5 31	18 32.45	-27 27.9	2.065	2.999	9.1	22.0	5 31	18 31.43	-21 17.2	1.697	2.638	10.3	20.4
6 10	18 24.27	-27 37.1	2.006	2.993	5.6	21.7	6 10	18 23.71	-21 34.2	1.653	2.643	6.2	20.2
6 20	18 14.67	-27 41.7	1.974	2.986	2.1	21.5	6 20	18 14.52	-21 52.5	1.635	2.649	1.8	19.9
6 30	18 4.60	-27 40.2	1.969	2.979	2.9	21.5	6 30	18 4.92	-22 10.5	1.643	2.654	2.8	20.0
7 10	17 55.12	-27 32.7	1.993	2.971	6.5	21.8	7 10	17 56.03	-22 27.3	1.678	2.660	7.1	20.3
7 20	17 47.11	-27 20.4	2.043	2.963	10.0	22.0	7 20	17 48.83	-22 42.6	1.737	2.666	11.0	20.5
7 30	17 41.30	-27 5.4	2.115	2.954	13.1	22.1	7 30	17 44.01	-22 57.0	1.818	2.671	14.4	20.7
127631	2003 <i>BD</i> ₉₀		6 23.8 64°36'	2°0/23.8	17		77923	2002 <i>EL</i> ₇₄		6 23.8 338°51'	2°2/23.8	18	
5 21	18 38.83	-28 10.7	1.614	2.485	14.8	19.5	5 21	18 33.25	-20 20.8	1.098	1.997	18.1	18.6
5 31	18 33.11	-28 18.6	1.548	2.489	11.0	19.3	5 31	18 29.89	-19 57.3	1.029	1.984	13.6	18.3
6 10	18 24.81	-28 22.4	1.504	2.493	6.8	19.1	6 10	18 23.35	-19 37.0	0.979	1.973	8.5	18.0
6 20	18 14.83	-28 19.6	1.485	2.497	2.7	18.8	6 20	18 14.52	-19 20.2	0.949	1.963	3.2	17.7
6 30	18 4.41	-28 8.7	1.492	2.502	3.6	18.9	6 30	18 4.88	-19 7.5	0.942	1.954	4.4	17.7
7 10	17 54.90	-27 50.5	1.524	2.506	7.8	19.2	7 10	17 56.14	-18 59.7	0.957	1.946	10.0	18.0
7 20	17 47.40	-27 27.3	1.581	2.510	11.9	19.4	7 20	17 49.76	-18 57.5	0.992	1.939	15.3	18.3
7 30	17 42.65	-27 2.3	1.659	2.514	15.4	19.6	7 30	17 46.74	-19 1.2	1.045	1.934	19.9	18.5
111574	2002 <i>AV</i> ₁₆		6 23.8 177°37'	2°8/24.2	18		436964	2012 <i>TK</i> ₁₆₉		6 23.8 263°18'	1°5/23.9	18	
5 21	18 33.73	-13 55.3	2.318	3.169	11.6	19.7	5 21	18 35.52	-18 26.4	1.942	2.805	13.0	20.5
5 31	18 28.61	-14 1.1	2.242	3.169	8.8	19.6	5 31	18 30.33	-18 36.3	1.862	2.799	9.7	20.3
6 10	18 21.83	-14 13.9	2.190	3.169	5.8	19.4	6 10	18 23.06	-18 51.1	1.804	2.792	6.0	20.1
6 20	18 13.97	-14 33.4	2.164	3.170	3.2	19.2	6 20	18 14.37	-19 10.0	1.772	2.785	2.3	19.8
6 30	18 5.76	-14 59.0	2.166	3.170	3.5	19.2	6 30	18 5.16	-19 31.5	1.768	2.778	3.0	19.9
7 10	17 58.01	-15 29.4	2.195	3.170	6.3	19.4	7 10	17 56.49	-19 54.7	1.790	2.771	6.9	20.1
7 20	17 51.43	-16 3.4	2.251	3.170	9.3	19.6	7 20	17 49.24	-20 18.7	1.838	2.764	10.6	20.3
7 30	17 46.59	-16 39.7	2.330	3.169	12.1	19.8	7 30	17 44.16	-20 43.3	1.907	2.757	13.9	20.5

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
470739	2008 UC ₁₀₉	6 23.8 245°91		2.7/23.4 18			477651	2010 NZ ₃₁	6 23.8 209°08		4.0/23.5 18		
5 21	18 38.89	-29 27.8	2.162	3.018	12.1	22.0	5 21	18 37.26	-36 36.6	2.784	3.622	10.2	22.0
5 31	18 32.92	-30 7.5	2.071	3.003	9.2	21.8	5 31	18 31.27	-37 9.2	2.703	3.618	8.0	21.8
6 10	18 24.69	-30 45.1	2.005	2.988	5.9	21.6	6 10	18 23.47	-37 34.9	2.646	3.613	5.8	21.7
6 20	18 14.85	-31 16.8	1.965	2.973	3.1	21.3	6 20	18 14.48	-37 51.0	2.617	3.608	4.2	21.6
6 30	18 4.35	-31 39.8	1.953	2.957	3.8	21.4	6 30	18 5.10	-37 55.5	2.615	3.602	4.5	21.6
7 10	17 54.29	-31 52.9	1.968	2.941	7.1	21.5	7 10	17 56.20	-37 48.2	2.641	3.597	6.5	21.7
7 20	17 45.69	-31 56.7	2.010	2.924	10.5	21.7	7 20	17 48.57	-37 30.7	2.693	3.591	8.8	21.8
7 30	17 39.35	-31 53.5	2.073	2.907	13.6	21.9	7 30	17 42.82	-37 5.6	2.769	3.585	11.0	22.0
428185	2006 UY ₆₀	6 23.8 221°52		2.9/23.6 17			101128	1998 RX ₅₇	6 23.8 345°14		4.0/24.1 18		
5 21	18 40.83	-29 51.0	1.834	2.695	13.7	22.5	5 21	18 32.13	-15 39.2	1.141	2.035	18.0	18.8
5 31	18 34.58	-30 19.4	1.754	2.688	10.4	22.2	5 31	18 28.89	-15 24.4	1.074	2.025	13.7	18.5
6 10	18 25.77	-30 43.9	1.696	2.681	6.7	22.0	6 10	18 22.68	-15 19.7	1.026	2.016	9.0	18.2
6 20	18 15.15	-31 0.8	1.664	2.673	3.3	21.8	6 20	18 14.36	-15 26.1	0.998	2.008	4.6	17.9
6 30	18 3.90	-31 7.2	1.659	2.665	4.1	21.8	6 30	18 5.28	-15 43.6	0.993	2.001	5.3	17.9
7 10	17 53.34	-31 2.8	1.681	2.656	7.8	22.0	7 10	17 57.04	-16 10.7	1.010	1.996	10.0	18.2
7 20	17 44.59	-30 49.4	1.727	2.647	11.6	22.2	7 20	17 50.96	-16 45.3	1.048	1.992	14.9	18.4
7 30	17 38.51	-30 30.2	1.795	2.637	15.0	22.4	7 30	17 48.03	-17 25.0	1.103	1.989	19.3	18.7
482115	2010 NM ₅₂	6 23.8 287°28		1.8/23.8 17			90835	1995 UT ₇₁	6 23.8 129°86		7.5/23.1 18		
5 21	18 34.08	-18 41.6	2.261	3.120	11.6	21.8	5 21	18 42.84	-41 16.0	1.880	2.719	14.4	19.4
5 31	18 29.09	-18 24.6	2.162	3.096	8.7	21.5	5 31	18 36.35	-42 23.5	1.815	2.722	11.7	19.2
6 10	18 22.27	-18 10.0	2.087	3.073	5.5	21.3	6 10	18 26.94	-43 19.1	1.773	2.726	9.2	19.0
6 20	18 14.15	-17 57.9	2.039	3.050	2.3	21.0	6 20	18 15.53	-43 56.3	1.755	2.729	7.6	18.9
6 30	18 5.52	-17 48.5	2.018	3.026	3.0	21.0	6 30	18 3.47	-44 10.7	1.763	2.732	8.0	19.0
7 10	17 57.25	-17 42.2	2.024	3.002	6.5	21.2	7 10	17 52.31	-44 2.3	1.795	2.735	10.1	19.1
7 20	17 50.16	-17 39.2	2.057	2.979	9.9	21.4	7 20	17 43.33	-43 34.5	1.851	2.737	12.7	19.3
7 30	17 44.93	-17 40.0	2.112	2.955	13.0	21.5	7 30	17 37.42	-42 53.1	1.927	2.740	15.2	19.5
280334	2003 SL ₉₉	6 23.8 310°26		8.7/22.8 18			504607	2008 UC ₁₅₉	6 23.8 160°76		1.0/23.8 17		
5 21	18 33.31	-6 21.4	1.589	2.441	16.0	19.9	5 21	18 37.15	-20 52.4	2.729	3.577	10.2	22.7
5 31	18 29.14	-5 3.5	1.498	2.413	13.2	19.7	5 31	18 30.83	-20 34.1	2.655	3.584	7.5	22.5
6 10	18 22.60	-3 55.9	1.428	2.385	10.5	19.4	6 10	18 23.04	-20 16.3	2.606	3.592	4.6	22.4
6 20	18 14.30	-3 3.8	1.380	2.357	8.8	19.3	6 20	18 14.34	-19 58.9	2.586	3.598	1.6	22.1
6 30	18 5.24	-2 32.1	1.356	2.330	9.4	19.2	6 30	18 5.43	-19 42.1	2.595	3.604	2.3	22.2
7 10	17 56.59	-2 22.9	1.356	2.304	11.9	19.3	7 10	17 57.04	-19 26.3	2.633	3.609	5.3	22.4
7 20	17 49.44	-2 36.0	1.377	2.277	15.3	19.4	7 20	17 49.79	-19 12.3	2.699	3.614	8.1	22.6
7 30	17 44.70	-3 8.5	1.416	2.251	18.6	19.6	7 30	17 44.17	-19 0.8	2.789	3.618	10.6	22.8
284849	2009 BO ₉₄	6 23.8 270°20		3.2/23.8 18			479646	2014 DM ₅₅	6 23.8 15°14		6.3/23.5 16		
5 21	18 38.31	-32 9.7	2.020	2.879	12.8	20.9	5 21	18 38.17	-38 12.7	1.778	2.635	14.3	20.8
5 31	18 32.53	-32 21.6	1.935	2.866	9.7	20.7	5 31	18 32.80	-39 1.8	1.715	2.637	11.4	20.6
6 10	18 24.45	-32 27.2	1.872	2.854	6.4	20.4	6 10	18 24.75	-39 40.4	1.674	2.641	8.5	20.4
6 20	18 14.77	-32 23.4	1.835	2.842	3.5	20.2	6 20	18 14.90	-40 3.3	1.656	2.644	6.5	20.3
6 30	18 4.56	-32 8.7	1.825	2.829	4.1	20.2	6 30	18 4.53	-40 7.1	1.664	2.649	6.9	20.3
7 10	17 54.99	-31 43.5	1.842	2.816	7.3	20.4	7 10	17 55.06	-39 52.2	1.696	2.653	9.3	20.5
7 20	17 47.06	-31 10.2	1.884	2.804	10.8	20.6	7 20	17 47.64	-39 21.7	1.752	2.658	12.2	20.7
7 30	17 41.55	-30 32.4	1.949	2.791	14.0	20.8	7 30	17 43.07	-38 40.7	1.828	2.664	15.0	20.9
311376	2005 SO ₂₁₈	6 23.8 220°05		1.4/23.7 18			397772	2008 GC ₁₃₀	6 23.8 325°77		7.1/21.4 18		
5 21	18 35.27	-27 19.8	2.827	3.679	9.7	21.3	5 21	18 38.37	-36 44.9	1.866	2.722	13.8	20.2
5 31	18 29.66	-27 42.1	2.739	3.670	7.2	21.1	5 31	18 33.36	-38 34.1	1.781	2.702	11.1	20.0
6 10	18 22.46	-28 2.8	2.676	3.662	4.5	20.9	6 10	18 25.44	-40 19.9	1.719	2.683	8.5	19.8
6 20	18 14.18	-28 20.2	2.641	3.653	1.8	20.7	6 20	18 15.22	-41 54.2	1.683	2.665	7.1	19.7
6 30	18 5.53	-28 32.7	2.635	3.643	2.4	20.8	6 30	18 3.82	-43 9.8	1.673	2.647	7.9	19.7
7 10	17 57.25	-28 40.0	2.658	3.633	5.3	21.0	7 10	17 52.75	-44 2.6	1.689	2.630	10.4	19.8
7 20	17 50.03	-28 42.5	2.708	3.623	8.1	21.1	7 20	17 43.43	-44 32.8	1.727	2.614	13.4	19.9
7 30	17 44.44	-28 41.2	2.782	3.613	10.6	21.3	7 30	17 37.04	-44 44.1	1.785	2.598	16.2	20.1
114721	2003 GG ₃₂	6 23.8 340°20		4.1/24.1 18			129214	Gordoncasto	6 23.8 175°51		1.2/23.9 18		
5 21	18 32.21	-12 39.9	1.865	2.726	13.5	19.3	5 21	18 34.77	-19 39.8	2.266	3.124	11.6	20.7
5 31	18 27.88	-12 26.1	1.789	2.719	10.5	19.1	5 31	18 29.45	-19 35.6	2.190	3.125	8.6	20.5
6 10	18 21.58	-12 21.1	1.734	2.713	7.1	18.9	6 10	18 22.39	-19 34.0	2.139	3.126	5.3	20.3
6 20	18 13.96	-12 25.7	1.705	2.707	4.4	18.7	6 20	18 14.20	-19 34.4	2.114	3.126	1.9	20.0
6 30	18 5.90	-12 40.0	1.701	2.702	4.8	18.7	6 30	18 5.68	-19 36.4	2.116	3.126	2.6	20.1
7 10	17 58.37	-13 3.3	1.723	2.697	7.8	18.9	7 10	17 57.68	-19 39.8	2.147	3.127	6.0	20.3
7 20	17 52.22	-13 34.0	1.769	2.693	11.2	19.1	7 20	17 50.95	-19 44.8	2.204	3.127	9.3	20.5
7 30	17 48.13	-14 10.4	1.837	2.689	14.3	19.3	7 30	17 46.06	-19 51.4	2.284	3.126	12.2	20.7
314492	2005 WD ₁₈₂	6 23.8 300°48		0.5/23.9 18			44977	1999 VN ₁₅₆	6 23.8 97°70		2.3/23.8 18		
5 21	18 34.54	-20 7.7	2.061	2.925	12.3	20.5	5 21	18 37.11	-18 9.1	1.962	2.822	13.0	19.1
5 31	18 29.72	-20 36.0	1.962	2.901	9.2	20.3	5 31	18 31.21	-17 41.8	1.902	2.836	9.7	18.9
6 10	18 22.80	-21 9.3	1.887	2.876	5.6	20.0	6 10	18 23.41	-17 17.7	1.865	2.851	6.1	18.7
6 20	18 14.35	-21 45.9	1.838	2.852	1.7	19.7	6 20	18 14.47	-16 57.3	1.855	2.865	2.8	18.5
6 30	18 5.20	-22 23.7	1.816	2.828	2.6	19.7	6 30	18 5.31	-16 41.2	1.871	2.879	3.4	18.6
7 10	17 56.36	-23 0.8	1.822	2.804	6.7	19.9	7 10	17 56.89	-16 30.0	1.915	2.892	6.9	18.8
7 20	17 48.79	-23 36.1	1.853	2.780	10.5	20.1	7 20	17 50.01	-16 23.8	1.985	2.906	10.3	19.1
7 30	17 43.29	-24 9.1	1.907	2.756	13.9	20.3	7 30	17 45.24	-16 22.7	2.076	2.919	13.2	19.3
184832	2005 UV ₉	6 23.8 277°79		0.7/23.9 18			146119	2000 RC ₁₅	6 23.8 251°85		0.4/23.8 18		
5 21	18 34.26	-20 57.9	2.264	3.125	11.5	21.0	5 21						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
59839	1999 <i>RS</i> ₄₇		6 23.8 352°10		7°8/24.6 18		305207	2007 <i>WS</i> ₂₀		6 23.8 125°81		1°8/24.1 17	
5 21	18 29.71	-9 21.5	0.990	1.884	20.0	17.7	5 21	18 34.61	-16 40.2	2.165	3.022	12.1	20.7
5 31	18 27.31	-8 51.2	0.930	1.875	16.0	17.4	5 31	18 29.44	-16 57.4	2.090	3.023	9.1	20.5
6 10	18 21.84	-8 40.0	0.886	1.868	11.6	17.1	6 10	18 22.47	-17 20.6	2.039	3.024	5.7	20.3
6 20	18 14.18	-8 51.8	0.862	1.862	8.3	16.9	6 20	18 14.29	-17 48.7	2.014	3.025	2.4	20.1
6 30	18 5.75	-9 27.5	0.859	1.858	8.4	16.9	6 30	18 5.72	-18 20.5	2.017	3.026	2.9	20.1
7 10	17 58.21	-10 24.4	0.875	1.856	12.0	17.1	7 10	17 57.64	-18 54.4	2.047	3.026	6.3	20.3
7 20	17 52.95	-11 36.9	0.910	1.855	16.5	17.3	7 20	17 50.84	-19 29.3	2.104	3.027	9.6	20.6
7 30	17 50.98	-12 58.5	0.963	1.856	20.8	17.6	7 30	17 45.95	-20 4.2	2.183	3.028	12.6	20.7
181156	2005 <i>RS</i> ₃₁		6 23.8 330°90		0°1/23.8 18		428208	2006 <i>UB</i> ₃₃₀		6 23.8 241°68		0°8/23.9 17	
5 21	18 37.12	-27 6.9	1.746	2.617	13.9	18.9	5 21	18 39.16	-21 4.9	1.812	2.676	13.8	22.3
5 31	18 31.73	-26 11.7	1.662	2.603	10.4	18.6	5 31	18 33.31	-21 7.9	1.725	2.662	10.3	22.1
6 10	18 23.99	-25 9.1	1.600	2.591	6.3	18.4	6 10	18 25.04	-21 13.3	1.660	2.649	6.3	21.8
6 20	18 14.70	-23 59.6	1.564	2.578	1.8	18.0	6 20	18 15.07	-21 19.8	1.621	2.634	2.0	21.5
6 30	18 4.97	-22 45.4	1.555	2.567	2.9	18.1	6 30	18 4.42	-21 26.4	1.608	2.619	3.0	21.5
7 10	17 56.02	-21 30.2	1.573	2.556	7.4	18.4	7 10	17 54.32	-21 32.5	1.623	2.604	7.4	21.8
7 20	17 48.84	-20 18.3	1.616	2.546	11.6	18.6	7 20	17 45.83	-21 38.3	1.662	2.588	11.6	22.0
7 30	17 44.16	-19 13.3	1.680	2.536	15.2	18.8	7 30	17 39.79	-21 44.8	1.724	2.572	15.2	22.2
367693	Montmagastrell		6 23.8 217°84		2°2/23.8 17		266780	2009 <i>SB</i> ₂₁₈		6 23.8 269°21		1°6/23.8 18	
5 21	18 39.11	-19 23.0	1.634	2.501	14.8	21.4	5 21	18 37.74	-20 3.0	1.699	2.567	14.3	20.4
5 31	18 33.26	-18 54.2	1.559	2.497	11.2	21.1	5 31	18 32.37	-19 48.9	1.611	2.550	10.8	20.1
6 10	18 24.95	-18 27.5	1.505	2.493	7.0	20.9	6 10	18 24.54	-19 37.1	1.545	2.534	6.7	19.9
6 20	18 14.98	-18 3.4	1.477	2.488	2.9	20.6	6 20	18 14.94	-19 27.4	1.504	2.517	2.5	19.6
6 30	18 4.50	-17 42.7	1.474	2.483	3.8	20.7	6 30	18 4.65	-19 19.7	1.490	2.500	3.4	19.6
7 10	17 54.77	-17 26.3	1.498	2.478	8.1	20.9	7 10	17 54.92	-19 14.1	1.502	2.483	7.9	19.8
7 20	17 46.85	-17 15.3	1.546	2.472	12.3	21.1	7 20	17 46.86	-19 11.4	1.537	2.466	12.2	20.0
7 30	17 41.52	-17 10.2	1.615	2.467	15.9	21.4	7 30	17 41.33	-19 12.2	1.594	2.448	16.0	20.2
203316	2001 <i>TB</i> ₆₃		6 23.8 192°67		2°9/23.9 17		504100	2006 <i>DG</i> ₁₉₆		6 23.8 164°15		2°4/23.9 17	
5 21	18 39.53	-16 56.4	1.515	2.383	15.8	20.5	5 21	18 41.28	-31 25.5	2.266	3.114	11.9	21.4
5 31	18 33.72	-16 44.6	1.444	2.382	11.9	20.3	5 31	18 34.30	-31 21.8	2.192	3.120	9.0	21.2
6 10	18 25.29	-16 39.1	1.395	2.381	7.6	20.1	6 10	18 25.32	-31 11.6	2.143	3.125	5.7	21.0
6 20	18 15.09	-16 39.8	1.370	2.380	3.5	19.8	6 20	18 15.08	-30 53.0	2.121	3.129	2.8	20.8
6 30	18 4.33	-16 46.5	1.370	2.378	4.2	19.8	6 30	18 4.56	-30 25.5	2.127	3.133	3.3	20.8
7 10	17 54.34	-16 58.5	1.396	2.376	8.5	20.1	7 10	17 54.80	-29 50.2	2.161	3.136	6.4	21.0
7 20	17 46.28	-17 15.3	1.445	2.373	12.9	20.3	7 20	17 46.63	-29 9.8	2.223	3.138	9.6	21.2
7 30	17 40.97	-17 36.1	1.516	2.370	16.6	20.6	7 30	17 40.67	-28 27.6	2.308	3.140	12.4	21.4
184232	2004 <i>RS</i> ₁₄₇		6 23.8 314°08		1°2/23.7 18		361068	2005 <i>YG</i> ₂₃₂		6 23.8 175°40		0°3/23.8 18	
5 21	18 34.43	-26 13.4	2.118	2.983	12.0	20.1	5 21	18 34.51	-24 24.2	2.839	3.692	9.7	21.7
5 31	18 29.49	-26 29.2	2.036	2.975	8.9	19.9	5 31	18 28.99	-24 24.0	2.761	3.693	7.1	21.6
6 10	18 22.58	-26 43.9	1.977	2.966	5.4	19.7	6 10	18 22.03	-24 23.0	2.707	3.695	4.3	21.4
6 20	18 14.31	-26 55.5	1.945	2.958	1.9	19.4	6 20	18 14.15	-24 20.3	2.682	3.696	1.2	21.2
6 30	18 5.57	-27 2.5	1.939	2.950	2.8	19.5	6 30	18 6.01	-24 15.4	2.686	3.697	1.9	21.2
7 10	17 57.35	-27 4.5	1.961	2.942	6.4	19.7	7 10	17 58.31	-24 8.6	2.718	3.697	5.0	21.4
7 20	17 50.52	-27 2.1	2.008	2.934	9.9	19.9	7 20	17 51.67	-24 0.4	2.778	3.697	7.7	21.6
7 30	17 45.76	-26 56.9	2.078	2.926	13.0	20.1	7 30	17 46.59	-23 51.7	2.862	3.697	10.2	21.8
442053	2010 <i>RC</i> ₅₇		6 23.8 269°32		3°7/23.8 18		272494	2005 <i>UT</i> ₁₄₉		6 23.8 159°96		2°0/23.7 17	
5 21	18 37.27	-34 23.3	2.311	3.162	11.6	21.3	5 21	18 39.85	-27 59.1	1.986	2.845	12.9	22.0
5 31	18 31.54	-34 39.4	2.228	3.153	9.0	21.1	5 31	18 33.54	-28 20.9	1.915	2.850	9.6	21.8
6 10	18 23.77	-34 48.5	2.168	3.144	6.1	20.9	6 10	18 25.02	-28 39.8	1.868	2.854	6.0	21.6
6 20	18 14.63	-34 47.6	2.135	3.136	3.9	20.8	6 20	18 15.03	-28 53.0	1.847	2.858	2.5	21.4
6 30	18 5.07	-34 35.4	2.129	3.127	4.3	20.8	6 30	18 4.61	-28 58.7	1.853	2.861	3.3	21.4
7 10	17 56.09	-34 12.1	2.150	3.118	6.9	20.9	7 10	17 54.91	-28 56.8	1.887	2.864	6.9	21.7
7 20	17 48.60	-33 39.9	2.197	3.109	9.8	21.1	7 20	17 46.88	-28 48.5	1.946	2.867	10.5	21.9
7 30	17 43.25	-33 2.1	2.267	3.101	12.5	21.3	7 30	17 41.22	-28 36.3	2.028	2.869	13.5	22.1
357506	2004 <i>PK</i> ₁₁₀		6 23.8 333°21		5°0/23.6 17		277559	2005 <i>YA</i> ₁₂₆		6 23.8 137°16		2°0/23.8 17	
5 21	18 33.87	-30 46.6	0.980	1.884	19.2	19.7	5 21	18 39.47	-28 27.5	1.919	2.780	13.2	21.9
5 31	18 31.19	-31 27.1	0.910	1.866	14.8	19.4	5 31	18 33.29	-28 41.4	1.851	2.787	9.9	21.7
6 10	18 24.62	-32 2.7	0.858	1.850	9.8	19.0	6 10	18 24.86	-28 51.6	1.806	2.793	6.1	21.5
6 20	18 15.07	-32 26.7	0.825	1.835	5.5	18.7	6 20	18 14.98	-28 55.6	1.788	2.799	2.6	21.3
6 30	18 4.29	-32 33.2	0.814	1.821	6.5	18.8	6 30	18 4.71	-28 51.9	1.796	2.805	3.3	21.3
7 10	17 54.52	-32 21.0	0.822	1.808	11.6	19.0	7 10	17 55.23	-28 40.8	1.832	2.810	7.0	21.6
7 20	17 47.64	-31 53.7	0.849	1.797	17.0	19.2	7 20	17 47.48	-28 24.1	1.893	2.815	10.6	21.8
7 30	17 44.95	-31 17.1	0.892	1.788	21.8	19.5	7 30	17 42.15	-28 4.4	1.976	2.820	13.7	22.0
476617	2008 <i>SX</i> ₁₄₃		6 23.8 333°46		4°8/23.2 16		39416	1024 <i>T</i> ₋₂		6 23.8 274°65		5°3/23.7 18	
5 21	18 36.26	-31 18.9	1.433	2.313	15.8	20.7	5 21	18 37.90	-13 10.0	1.511	2.375	16.0	19.4
5 31	18 31.95	-32 17.7	1.359	2.301	12.1	20.4	5 31	18 32.75	-12 28.8	1.422	2.354	12.5	19.2
6 10	18 24.59	-33 13.3	1.305	2.290	8.2	20.1	6 10	18 24.92	-11 55.0	1.353	2.332	8.7	18.9
6 20	18 14.98	-33 59.5	1.275	2.280	5.1	19.9	6 20	18 15.09	-11 31.0	1.308	2.310	5.6	18.7
6 30	18 4.48	-34 31.1	1.269	2.270	5.9	20.0	6 30	18 4.41	-11 18.9	1.288	2.287	6.2	18.6
7 10	17 54.72	-34 46.0	1.286	2.261	9.7	20.2	7 10	17 54.23	-11 19.7	1.293	2.265	10.0	18.8
7 20	17 47.13	-34 45.6	1.326	2.253	13.8	20.4	7 20	17 45.78	-11 33.0	1.320	2.242	14.3	19.0
7 30	17 42.74	-34 33.9	1.385	2.245	17.6	20.6	7 30	17 40.06	-11 57.2	1.367	2.218	18.3	19.2
3126	Davydov		6 23.8 278°22		4°5/23.8 18		506957	2008					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
283036	2007 YE ₅₂		6 23.8 308°86	9°2/24.6	18		438913	2010 AE ₈₁		6 23.9 151°37	2°7/23.7	17	
5 21	18 32.79	- 0 52.1	1.748	2.575	15.8	20.0	5 21	18 37.95	-16 43.5	2.336	3.183	11.7	22.1
5 31	18 28.57	- 0 15.4	1.660	2.553	13.4	19.8	5 31	18 31.62	-16 8.1	2.266	3.192	8.8	21.9
6 10	18 22.21	+ 0 3.4	1.593	2.532	11.0	19.6	6 10	18 23.64	-15 35.7	2.220	3.201	5.7	21.7
6 20	18 14.29	+ 0 0.3	1.548	2.511	9.4	19.5	6 20	18 14.63	-15 7.3	2.202	3.209	3.0	21.6
6 30	18 5.72	- 0 26.9	1.526	2.490	9.5	19.4	6 30	18 5.40	-14 43.6	2.213	3.216	3.5	21.6
7 10	17 57.54	- 1 17.5	1.529	2.469	11.4	19.5	7 10	17 56.77	-14 25.5	2.252	3.223	6.4	21.8
7 20	17 50.73	- 2 28.2	1.553	2.449	14.1	19.6	7 20	17 49.45	-14 13.4	2.318	3.230	9.4	22.0
7 30	17 46.09	- 3 54.0	1.598	2.430	17.0	19.7	7 30	17 43.97	-14 7.2	2.407	3.235	12.1	22.2
335471	2005 WX ₆₈		6 23.8 78°13	3°2/23.5	17		70868	1999 VL ₁₅₁		6 23.9 48°25	0°1/23.9	18	
5 21	18 38.37	-18 14.2	1.665	2.531	14.7	20.6	5 21	18 36.82	-23 50.1	1.711	2.583	14.1	19.4
5 31	18 32.44	-17 18.4	1.604	2.541	11.0	20.4	5 31	18 31.46	-23 47.2	1.647	2.589	10.4	19.2
6 10	18 24.31	-16 24.9	1.565	2.550	7.0	20.2	6 10	18 23.83	-23 44.1	1.605	2.595	6.2	19.0
6 20	18 14.81	-15 35.7	1.551	2.560	3.6	20.0	6 20	18 14.72	-23 39.5	1.588	2.602	1.8	18.7
6 30	18 5.05	-14 53.1	1.564	2.569	4.4	20.1	6 30	18 5.26	-23 32.5	1.597	2.609	2.8	18.8
7 10	17 56.18	-14 18.9	1.603	2.579	8.1	20.3	7 10	17 56.59	-23 23.7	1.632	2.616	7.2	19.1
7 20	17 49.10	-13 54.1	1.667	2.588	11.8	20.6	7 20	17 49.70	-23 14.0	1.692	2.623	11.1	19.3
7 30	17 44.45	-13 39.1	1.751	2.598	15.1	20.8	7 30	17 45.25	-23 5.0	1.773	2.630	14.5	19.6
124463	2001 QQ ₂₉₅		6 23.8 204°66	0°6/23.9	18		522743	2016 LT ₆₄		6 23.9 293°88	1°1/23.6	18	
5 21	18 38.57	-21 39.8	2.175	3.030	12.1	20.8	5 21	18 37.62	-22 49.2	1.724	2.594	14.1	21.4
5 31	18 32.42	-21 38.6	2.092	3.025	9.0	20.6	5 31	18 32.54	-23 44.8	1.632	2.573	10.6	21.1
6 10	18 24.29	-21 38.4	2.032	3.020	5.5	20.4	6 10	18 24.83	-24 46.3	1.562	2.552	6.4	20.8
6 20	18 14.84	-21 38.4	2.000	3.014	1.7	20.1	6 20	18 15.13	-25 49.8	1.517	2.531	2.1	20.5
6 30	18 4.93	-21 37.7	1.996	3.007	2.5	20.2	6 30	18 4.47	-26 50.6	1.499	2.510	3.3	20.5
7 10	17 55.57	-21 36.5	2.020	2.999	6.3	20.4	7 10	17 54.16	-27 45.3	1.508	2.489	7.9	20.7
7 20	17 47.59	-21 35.0	2.070	2.991	9.9	20.6	7 20	17 45.45	-28 32.1	1.541	2.468	12.3	20.9
7 30	17 41.68	-21 34.3	2.143	2.982	13.0	20.8	7 30	17 39.35	-29 11.0	1.596	2.447	16.1	21.1
225898	2002 AA ₁		6 23.8 198°80	4°6/24.1	18		167806	2005 BK ₁₈		6 23.9 257°65	2°0/23.6	17	
5 21	18 36.53	- 9 33.4	2.355	3.188	12.0	21.3	5 21	18 40.83	-26 5.3	1.581	2.451	15.1	20.8
5 31	18 30.68	- 9 11.1	2.273	3.185	9.5	21.1	5 31	18 35.10	-26 41.2	1.495	2.435	11.4	20.5
6 10	18 23.15	- 8 57.3	2.215	3.180	6.8	20.9	6 10	18 26.43	-27 17.9	1.430	2.419	7.1	20.2
6 20	18 14.51	- 8 53.1	2.183	3.175	4.8	20.8	6 20	18 15.58	-27 51.2	1.390	2.403	2.7	19.9
6 30	18 5.48	- 8 59.1	2.179	3.169	5.1	20.8	6 30	18 3.79	-28 17.2	1.376	2.386	3.8	19.9
7 10	17 56.90	- 9 14.9	2.203	3.162	7.3	20.9	7 10	17 52.56	-28 34.2	1.388	2.368	8.5	20.2
7 20	17 49.49	- 9 39.3	2.253	3.155	10.1	21.1	7 20	17 43.27	-28 42.6	1.424	2.350	13.1	20.4
7 30	17 43.83	-10 10.8	2.326	3.147	12.7	21.3	7 30	17 36.96	-28 44.9	1.480	2.332	17.1	20.6
100187	1994 BT ₄		6 23.8 151°56	0°2/23.8	17		83653	2001 TK ₁₀		6 23.9 104°12	4°4/23.4	18	
5 21	18 40.77	-22 50.5	1.726	2.590	14.3	21.3	5 21	18 38.68	-34 41.3	2.160	3.011	12.3	19.7
5 31	18 34.40	-23 5.8	1.658	2.597	10.6	21.0	5 31	18 32.73	-35 28.1	2.093	3.017	9.5	19.5
6 10	18 25.61	-23 22.5	1.614	2.603	6.4	20.8	6 10	18 24.58	-36 8.2	2.050	3.023	6.7	19.4
6 20	18 15.22	-23 38.3	1.595	2.609	1.8	20.5	6 20	18 14.96	-36 37.7	2.032	3.029	4.6	19.2
6 30	18 4.37	-23 51.4	1.603	2.614	2.9	20.6	6 30	18 4.90	-36 53.7	2.042	3.035	5.1	19.3
7 10	17 54.33	-24 1.0	1.638	2.619	7.3	20.9	7 10	17 55.52	-36 55.9	2.079	3.040	7.5	19.4
7 20	17 46.11	-24 7.8	1.698	2.624	11.4	21.1	7 20	17 47.76	-36 46.1	2.140	3.046	10.3	19.6
7 30	17 40.49	-24 12.9	1.779	2.627	14.8	21.4	7 30	17 42.35	-36 27.5	2.224	3.052	13.0	19.8
510892	2013 CH ₁₇₃		6 23.9 17°64	6°9/23.9	18		442979	2013 CH ₁₅₁		6 23.9 316°38	4°6/24.4	18	
5 21	18 40.35	-43 40.8	2.209	3.036	12.9	21.0	5 21	18 32.63	- 9 21.2	2.231	3.075	12.3	21.3
5 31	18 34.10	-44 14.6	2.141	3.038	10.6	20.8	5 31	18 27.92	- 9 11.4	2.154	3.071	9.7	21.1
6 10	18 25.42	-44 35.3	2.094	3.039	8.5	20.7	6 10	18 21.56	- 9 11.5	2.100	3.068	6.9	21.0
6 20	18 15.16	-44 38.2	2.073	3.041	7.1	20.6	6 20	18 14.09	- 9 22.2	2.071	3.065	4.9	20.8
6 30	18 4.51	-44 21.2	2.077	3.042	7.2	20.6	6 30	18 6.27	- 9 43.7	2.069	3.062	5.0	20.8
7 10	17 54.74	-43 45.1	2.106	3.044	8.9	20.7	7 10	17 58.89	-10 14.8	2.094	3.059	7.3	21.0
7 20	17 46.85	-42 53.7	2.159	3.046	11.1	20.9	7 20	17 52.67	-10 54.0	2.144	3.056	10.1	21.1
7 30	17 41.58	-41 52.0	2.235	3.048	13.4	21.0	7 30	17 48.18	-11 39.0	2.217	3.053	12.7	21.3
147824	2005 SC ₁₉₂		6 23.9 106°14	0°5/23.9	18		440572	2005 UG ₄₀₄		6 23.9 234°62	0°3/23.9	18	
5 21	18 34.66	-21 31.1	2.432	3.290	10.9	20.5	5 21	18 34.54	-21 54.6	2.680	3.533	10.1	22.4
5 31	18 29.25	-21 32.8	2.365	3.300	8.1	20.3	5 31	18 29.20	-22 0.3	2.589	3.523	7.5	22.2
6 10	18 22.24	-21 35.7	2.322	3.310	4.8	20.1	6 10	18 22.28	-22 7.1	2.524	3.511	4.5	22.0
6 20	18 14.24	-21 39.0	2.307	3.320	1.5	19.9	6 20	18 14.30	-22 14.1	2.486	3.500	1.3	21.8
6 30	18 5.99	-21 42.2	2.319	3.330	2.2	20.0	6 30	18 5.93	-22 20.5	2.477	3.488	2.1	21.8
7 10	17 58.29	-21 45.0	2.360	3.340	5.5	20.2	7 10	17 57.94	-22 26.0	2.496	3.476	5.3	22.0
7 20	17 51.80	-21 47.8	2.427	3.350	8.6	20.4	7 20	17 50.99	-22 30.8	2.543	3.463	8.3	22.2
7 30	17 47.06	-21 50.9	2.518	3.360	11.2	20.6	7 30	17 45.66	-22 35.3	2.613	3.450	11.0	22.4
463233	2012 EH ₃		6 23.9 94°83	14°5/27.5	17		309103	2006 WR ₆₃		6 23.9 254°16	4°1/23.3	18	
5 21	18 37.78	+13 12.4	1.688	2.438	19.3	21.1	5 21	18 37.86	-34 0.4	2.252	3.103	11.9	20.8
5 31	18 31.89	+14 17.2	1.647	2.457	17.4	21.1	5 31	18 32.16	-34 45.8	2.171	3.096	9.2	20.7
6 10	18 23.93	+14 52.0	1.624	2.476	15.8	21.0	6 10	18 24.28	-35 25.8	2.114	3.089	6.4	20.5
6 20	18 14.72	+14 52.2	1.619	2.495	14.7	21.0	6 20	18 14.90	-35 56.5	2.084	3.082	4.3	20.3
6 30	18 5.28	+14 16.2	1.634	2.513	14.5	21.0	6 30	18 4.96	-36 15.0	2.080	3.074	4.8	20.3
7 10	17 56.69	+13 6.9	1.671	2.531	15.1	21.1	7 10	17 55.55	-36 20.4	2.104	3.067	7.4	20.5
7 20	17 49.80	+11 30.4	1.727	2.549	16.4	21.2	7 20	17 47.62	-36 14.1	2.153	3.059	10.3	20.7
7 30	17 45.21	+ 9 34.7	1.802	2.566	17.9	21.4	7 30	17 41.94	-35 59.1	2.224	3.052	12.9	20.8
475834	2007 BY ₁₃		6 23.9 132°47	0°5/23.8	16		237955	2002 RW ₈₀		6 23.9 308°87	6°2/23.5	18</	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
250936	2005 <i>XS</i> ₅		6 23.9 271°47'	0°6/23.9	18		178685	2000 <i>RB</i> ₉₄		6 23.9 251°16'	0°5/23.9	18	
5 21	18 34.35	-21 21.3	2.377	3.236	11.1	21.0	5 21	18 35.23	-22 9.6	2.465	3.321	10.8	21.1
5 31	18 29.26	-21 21.7	2.285	3.221	8.3	20.8	5 31	18 29.85	-22 4.5	2.373	3.307	8.1	20.9
6 10	18 22.41	-21 23.7	2.217	3.205	5.0	20.6	6 10	18 22.75	-21 59.9	2.305	3.293	4.9	20.7
6 20	18 14.35	-21 26.3	2.176	3.189	1.6	20.3	6 20	18 14.47	-21 55.0	2.264	3.278	1.5	20.4
6 30	18 5.84	-21 29.1	2.162	3.173	2.3	20.3	6 30	18 5.78	-21 49.6	2.252	3.263	2.2	20.5
7 10	17 57.72	-21 31.8	2.177	3.157	5.9	20.6	7 10	17 57.49	-21 43.7	2.268	3.248	5.7	20.7
7 20	17 50.75	-21 34.5	2.218	3.141	9.2	20.7	7 20	17 50.35	-21 37.8	2.311	3.233	9.0	20.9
7 30	17 45.59	-21 37.7	2.282	3.125	12.2	20.9	7 30	17 44.98	-21 32.7	2.377	3.217	11.8	21.0
243140	2007 <i>RO</i> ₃₂₅		6 23.9 316°49'	2°6/23.9	18		78199	2002 <i>NP</i> ₄₈		6 23.9 247°28'	1°9/23.9	18	
5 21	18 35.38	-17 15.2	1.909	2.772	13.2	20.7	5 21	18 38.58	-29 23.1	2.194	3.050	12.0	20.0
5 31	18 30.19	-16 52.3	1.836	2.771	10.0	20.5	5 31	18 32.59	-29 24.7	2.104	3.037	9.0	19.7
6 10	18 23.01	-16 33.5	1.786	2.771	6.3	20.3	6 10	18 24.51	-29 21.7	2.038	3.024	5.7	19.5
6 20	18 14.51	-16 19.4	1.761	2.770	3.1	20.1	6 20	18 14.99	-29 12.1	1.999	3.010	2.5	19.3
6 30	18 5.63	-16 10.5	1.762	2.769	3.7	20.1	6 30	18 4.98	-28 54.9	1.988	2.996	3.1	19.3
7 10	17 57.37	-16 6.8	1.791	2.768	7.2	20.3	7 10	17 55.53	-28 30.6	2.004	2.982	6.6	19.5
7 20	17 50.57	-16 8.5	1.844	2.768	10.8	20.5	7 20	17 47.54	-28 1.1	2.046	2.967	10.0	19.7
7 30	17 45.91	-16 15.4	1.919	2.767	13.9	20.7	7 30	17 41.73	-27 29.3	2.112	2.952	13.1	19.8
310026	2009 <i>UQ</i> ₁₃₁		6 23.9 251°66'	6°3/24.6	18		516381	2018 <i>CY</i> ₇		6 23.9 205°31'	6°9/25.5	18	
5 21	18 35.73	-6 52.5	1.777	2.620	14.9	20.4	5 21	18 33.37	+ 1 45.7	2.734	3.520	11.8	21.2
5 31	18 30.62	-6 36.8	1.700	2.613	12.0	20.2	5 31	18 28.18	+ 1 50.1	2.653	3.517	10.0	21.1
6 10	18 23.37	-6 35.2	1.644	2.607	8.9	20.0	6 10	18 21.62	+ 1 39.7	2.596	3.514	8.2	21.0
6 20	18 14.66	-6 49.6	1.612	2.600	6.7	19.8	6 20	18 14.14	+ 1 13.4	2.563	3.510	7.1	20.9
6 30	18 5.41	-7 20.2	1.606	2.594	6.8	19.8	6 30	18 6.36	+ 0 30.9	2.557	3.506	7.0	20.9
7 10	17 56.70	-8 5.4	1.625	2.587	9.2	19.9	7 10	17 58.93	- 0 26.4	2.578	3.502	8.1	20.9
7 20	17 49.46	-9 2.2	1.669	2.580	12.4	20.1	7 20	17 52.45	- 1 35.6	2.625	3.497	9.9	21.1
7 30	17 44.44	-10 7.2	1.733	2.573	15.5	20.3	7 30	17 47.40	- 2 53.6	2.695	3.493	11.8	21.2
234113	1999 <i>VY</i> ₁₆₇		6 23.9 117°28'	4°3/23.3	18		123719	2000 <i>YD</i> ₁₃₂		6 23.9 79°07'	3°9/24.7	18	
5 21	18 41.96	-34 48.3	2.331	3.173	11.9	20.6	5 21	18 33.62	- 9 34.5	2.343	3.182	11.9	19.7
5 31	18 34.93	-35 42.8	2.274	3.192	9.1	20.4	5 31	18 28.57	- 9 47.9	2.270	3.186	9.3	19.5
6 10	18 25.79	-36 30.5	2.241	3.211	6.4	20.3	6 10	18 21.93	-10 11.6	2.220	3.189	6.5	19.3
6 20	18 15.30	-37 7.1	2.235	3.229	4.5	20.2	6 20	18 14.24	-10 45.3	2.196	3.193	4.3	19.2
6 30	18 4.45	-37 30.0	2.257	3.247	4.9	20.2	6 30	18 6.22	-11 28.1	2.200	3.196	4.3	19.2
7 10	17 54.33	-37 38.7	2.307	3.264	7.2	20.4	7 10	17 58.64	-12 18.2	2.231	3.200	6.6	19.4
7 20	17 45.83	-37 35.2	2.382	3.280	9.8	20.6	7 20	17 52.20	-13 13.4	2.289	3.204	9.4	19.5
7 30	17 39.60	-37 22.6	2.481	3.296	12.2	20.8	7 30	17 47.43	-14 11.3	2.371	3.207	12.0	19.7
474775	2005 <i>QK</i> ₁₂₃		6 23.9 246°69'	4°2/23.8	18		205541	2001 <i>SD</i> ₁₇₃		6 23.9 261°49'	3°4/23.6	17	
5 21	18 38.08	-35 29.6	2.239	3.089	12.0	21.3	5 21	18 41.63	-29 6.7	1.445	2.318	16.1	21.1
5 31	18 32.24	-35 54.3	2.163	3.086	9.3	21.1	5 31	18 35.99	-29 46.6	1.364	2.305	12.2	20.8
6 10	18 24.27	-36 11.4	2.111	3.083	6.5	21.0	6 10	18 27.12	-30 24.2	1.304	2.291	7.9	20.5
6 20	18 14.89	-36 17.5	2.084	3.081	4.4	20.8	6 20	18 15.85	-30 54.3	1.267	2.277	3.9	20.3
6 30	18 5.10	-36 10.7	2.084	3.078	4.8	20.8	6 30	18 3.58	-31 12.2	1.256	2.262	4.9	20.3
7 10	17 55.95	-35 51.3	2.111	3.075	7.2	21.0	7 10	17 52.02	-31 16.6	1.269	2.247	9.4	20.5
7 20	17 48.38	-35 21.7	2.163	3.072	10.1	21.2	7 20	17 42.68	-31 9.2	1.305	2.232	14.0	20.7
7 30	17 43.06	-34 45.4	2.238	3.069	12.8	21.3	7 30	17 36.67	-30 54.0	1.361	2.217	18.1	20.9
388685	2007 <i>UM</i> ₈₃		6 23.9 280°92'	1°6/23.7	18		139764	2001 <i>QU</i> ₂₈₇		6 23.9 304°81'	1°2/23.9	18	
5 21	18 36.67	-26 37.6	1.959	2.825	12.8	21.4	5 21	18 34.82	-20 34.8	1.886	2.754	13.1	19.9
5 31	18 31.42	-26 59.1	1.874	2.812	9.6	21.1	5 31	18 29.97	-20 25.6	1.803	2.743	9.8	19.7
6 10	18 23.91	-27 19.6	1.811	2.800	5.9	20.9	6 10	18 23.01	-20 18.4	1.742	2.731	6.0	19.5
6 20	18 14.83	-27 36.4	1.775	2.787	2.2	20.6	6 20	18 14.59	-20 13.0	1.707	2.720	2.1	19.2
6 30	18 5.15	-27 47.4	1.765	2.775	3.1	20.7	6 30	18 5.65	-20 8.9	1.698	2.709	2.9	19.2
7 10	17 56.00	-27 52.0	1.782	2.762	7.0	20.9	7 10	17 57.26	-20 6.3	1.716	2.698	7.0	19.4
7 20	17 48.37	-27 50.9	1.824	2.750	10.8	21.1	7 20	17 50.33	-20 5.6	1.759	2.688	10.9	19.7
7 30	17 43.05	-27 46.0	1.888	2.737	14.1	21.3	7 30	17 45.61	-20 7.1	1.823	2.677	14.3	19.8
214593	2006 <i>QH</i> ₁₃₁		6 23.9 332°40'	8°4/22.6	18		335784	2007 <i>FP</i> ₁₅		6 23.9 38°43'	10°0/24.8	17	
5 21	18 35.42	-35 24.2	1.095	1.987	18.7	19.4	5 21	18 34.34	- 2 30.4	1.362	2.210	18.3	20.1
5 31	18 32.44	-36 51.0	1.024	1.968	14.9	19.2	5 31	18 29.77	- 1 31.3	1.317	2.224	15.2	20.0
6 10	18 25.51	-38 12.0	0.971	1.951	11.1	18.9	6 10	18 22.87	- 0 53.3	1.291	2.239	12.2	19.8
6 20	18 15.47	-39 16.8	0.938	1.934	8.5	18.7	6 20	18 14.51	- 0 40.4	1.285	2.255	10.2	19.8
6 30	18 4.03	-39 56.4	0.926	1.919	9.5	18.7	6 30	18 5.87	- 0 54.1	1.302	2.271	10.3	19.8
7 10	17 53.46	-40 6.9	0.935	1.904	13.2	18.8	7 10	17 58.16	- 1 32.5	1.342	2.288	12.2	20.0
7 20	17 45.76	-39 51.2	0.962	1.892	17.5	19.0	7 20	17 52.31	- 2 30.6	1.402	2.305	14.9	20.2
7 30	17 42.35	-39 16.4	1.006	1.881	21.6	19.2	7 30	17 48.99	- 3 42.6	1.482	2.323	17.6	20.4
358869	2008 <i>FQ</i> ₁₁₆		6 23.9 302°24'	4°1/23.4	18		120790	1998 <i>FX</i> ₂₅		6 23.9 162°85'	1°7/23.8	17	
5 21	18 36.63	-33 48.9	2.195	3.050	12.0	20.8	5 21	18 40.08	-28 12.7	2.309	3.160	11.6	20.6
5 31	18 31.30	-34 32.0	2.114	3.042	9.3	20.6	5 31	18 33.45	-28 25.1	2.236	3.167	8.7	20.4
6 10	18 23.81	-35 9.9	2.057	3.033	6.4	20.4	6 10	18 24.88	-28 34.3	2.188	3.172	5.4	20.2
6 20	18 14.80	-35 38.6	2.026	3.025	4.3	20.2	6 20	18 15.08	-28 38.1	2.166	3.178	2.2	20.0
6 30	18 5.23	-35 55.2	2.021	3.016	4.8	20.2	6 30	18 4.94	-28 35.2	2.174	3.182	2.8	20.1
7 10	17 56.20	-35 59.1	2.043	3.008	7.4	20.4	7 10	17 55.44	-28 25.9	2.210	3.186	6.1	20.3
7 20	17 48.66	-35 51.5	2.090	3.000	10.4	20.5	7 20	17 47.41	-28 11.6	2.272	3.189	9.3	20.5
7 30	17 43.36	-35 35.3	2.160	2.992	13.1	20.7	7 30	17 41.46	-27 54.5	2.358	3.192	12.1	20.7
16577	1992 <i>ET</i> ₂₃		6 23.9 346°41'	2°8/23.9	18	</							

EPHEMERIDES

6 23.9

6 23.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
180220	2003 <i>UG</i> ₄₄		6 23.9 87°88	2°9/23.8	17		147410	2003 <i>FM</i> ₆₇		6 23.9 101°83	4°0/24.3	18	
5 21	18 41.30	-29 14.9	1.447	2.320	16.0	20.3	5 21	18 33.67	-11 11.7	2.241	3.087	12.1	19.7
5 31	18 35.31	-29 39.5	1.387	2.328	12.1	20.1	5 31	18 28.65	-10 59.6	2.171	3.092	9.4	19.6
6 10	18 26.40	-29 59.4	1.348	2.336	7.6	19.8	6 10	18 22.00	-10 56.0	2.124	3.096	6.5	19.4
6 20	18 15.56	-30 10.7	1.333	2.344	3.5	19.6	6 20	18 14.30	-11 1.3	2.103	3.101	4.3	19.3
6 30	18 4.24	-30 10.7	1.344	2.352	4.3	19.7	6 30	18 6.29	-11 15.7	2.109	3.105	4.5	19.3
7 10	17 53.98	-29 59.8	1.379	2.359	8.6	20.0	7 10	17 58.79	-11 38.2	2.142	3.110	6.9	19.4
7 20	17 46.02	-29 40.7	1.438	2.367	12.8	20.2	7 20	17 52.48	-12 7.6	2.201	3.114	9.7	19.6
7 30	17 41.17	-29 17.3	1.517	2.375	16.5	20.5	7 30	17 47.94	-12 42.2	2.282	3.119	12.4	19.8
475264	2005 <i>WY</i> ₉₂		6 23.9 216°31	0°1/23.9	18		77150	2001 <i>EL</i> ₈		6 23.9 354°82	5°4/23.6	18	
5 21	18 34.45	-23 9.5	2.666	3.521	10.1	22.1	5 21	18 37.86	-32 31.1	1.221	2.107	17.6	18.6
5 31	18 29.12	-23 11.6	2.582	3.516	7.5	21.9	5 31	18 33.49	-33 18.7	1.158	2.103	13.5	18.3
6 10	18 22.24	-23 13.8	2.523	3.511	4.5	21.7	6 10	18 25.69	-33 59.5	1.115	2.100	9.2	18.1
6 20	18 14.34	-23 15.2	2.491	3.505	1.3	21.5	6 20	18 15.46	-34 27.0	1.094	2.098	5.7	17.9
6 30	18 6.11	-23 15.3	2.488	3.499	2.0	21.5	6 30	18 4.44	-34 36.4	1.095	2.097	6.5	17.9
7 10	17 58.30	-23 13.9	2.513	3.493	5.2	21.8	7 10	17 54.49	-34 27.3	1.119	2.097	10.4	18.1
7 20	17 51.58	-23 11.5	2.566	3.487	8.2	21.9	7 20	17 47.16	-34 3.3	1.164	2.097	14.8	18.4
7 30	17 46.48	-23 8.8	2.642	3.480	10.8	22.1	7 30	17 43.43	-33 29.8	1.228	2.099	18.7	18.6
249785	2000 <i>WU</i> ₁₅₀		6 23.9 242°16	4°3/24.8	18		510659	2012 <i>TX</i> ₂₈₆		6 23.9 245°69	1°5/24.0	18	
5 21	18 53.45	-36 34.5	1.164	2.028	19.8	20.0	5 21	18 36.00	-18 35.3	2.020	2.881	12.7	21.6
5 31	18 45.27	-35 41.6	1.085	2.018	15.4	19.7	5 31	18 30.71	-18 41.4	1.939	2.874	9.5	21.4
6 10	18 32.80	-34 25.4	1.026	2.008	10.3	19.3	6 10	18 23.41	-18 51.9	1.880	2.867	5.9	21.1
6 20	18 17.43	-32 41.1	0.989	1.997	5.3	19.0	6 20	18 14.74	-19 6.0	1.847	2.860	2.2	20.9
6 30	18 1.38	-30 30.2	0.978	1.986	5.5	19.0	6 30	18 5.57	-19 22.6	1.842	2.852	2.9	20.9
7 10	17 47.05	-28 2.6	0.992	1.974	10.8	19.2	7 10	17 56.90	-19 41.0	1.864	2.845	6.7	21.1
7 20	17 36.19	-25 32.6	1.029	1.961	16.3	19.5	7 20	17 49.62	-20 0.5	1.912	2.837	10.3	21.3
7 30	17 29.76	-23 13.0	1.086	1.949	21.2	19.8	7 30	17 44.42	-20 20.9	1.982	2.829	13.6	21.5
324901	2007 <i>VJ</i> ₁₄₅		6 23.9 241°10	3°1/23.7	17		158209	2001 <i>SG</i> ₅₉		6 23.9 320°95	4°5/23.9	17	
5 21	18 42.27	-29 56.3	1.720	2.582	14.5	21.9	5 21	18 32.36	-16 3.1	1.023	1.923	19.0	19.7
5 31	18 36.01	-30 24.3	1.634	2.568	11.0	21.6	5 31	18 29.73	-15 37.2	0.942	1.896	14.8	19.4
6 10	18 26.92	-30 48.4	1.570	2.554	7.1	21.3	6 10	18 23.71	-15 20.2	0.878	1.869	9.8	19.0
6 20	18 15.78	-31 4.3	1.531	2.540	3.6	21.1	6 20	18 15.00	-15 14.3	0.834	1.844	5.2	18.7
6 30	18 3.83	-31 8.9	1.519	2.525	4.3	21.1	6 30	18 5.01	-15 21.0	0.811	1.819	6.0	18.6
7 10	17 52.52	-31 1.6	1.533	2.509	8.3	21.3	7 10	17 55.57	-15 40.1	0.808	1.796	11.4	18.8
7 20	17 43.15	-30 44.4	1.572	2.493	12.4	21.5	7 20	17 48.43	-16 10.4	0.824	1.774	17.2	19.0
7 30	17 36.67	-30 21.2	1.631	2.476	16.1	21.7	7 30	17 44.92	-16 49.5	0.857	1.754	22.4	19.3
114984	2003 <i>QL</i> ₆₆		6 23.9 245°29	4°2/23.6	18		422841	2002 <i>EG</i> ₈₆		6 23.9 47°56	6°4/24.6	16	
5 21	18 40.93	-35 19.3	2.335	3.178	11.8	20.9	5 21	18 37.03	-9 13.6	1.378	2.241	17.3	20.7
5 31	18 34.47	-35 49.2	2.241	3.160	9.2	20.7	5 31	18 31.58	-8 43.4	1.343	2.270	13.5	20.5
6 10	18 25.74	-36 12.1	2.171	3.142	6.5	20.5	6 10	18 23.85	-8 28.3	1.328	2.300	9.6	20.4
6 20	18 15.40	-36 24.3	2.127	3.123	4.4	20.3	6 20	18 14.80	-8 29.7	1.335	2.330	6.8	20.3
6 30	18 4.44	-36 23.3	2.111	3.104	4.8	20.3	6 30	18 5.65	-8 47.4	1.366	2.360	6.9	20.4
7 10	17 53.98	-36 8.7	2.122	3.084	7.4	20.4	7 10	17 57.58	-9 19.1	1.422	2.391	9.6	20.6
7 20	17 45.02	-35 42.5	2.160	3.064	10.3	20.6	7 20	17 51.49	-10 1.5	1.500	2.421	12.9	20.9
7 30	17 38.36	-35 8.4	2.220	3.043	13.1	20.7	7 30	17 47.96	-10 50.9	1.599	2.452	16.0	21.1
401214	2011 <i>YF</i> ₄₄		6 23.9 264°91	5°0/25.0	18		386374	2008 <i>TO</i> ₁₆₆		6 23.9 251°36	1°8/24.1	18	
5 21	18 34.10	-5 40.8	2.445	3.268	11.9	20.7	5 21	18 36.90	-17 38.3	2.063	2.920	12.6	21.5
5 31	18 28.97	-5 52.9	2.355	3.256	9.6	20.6	5 31	18 31.43	-17 46.0	1.972	2.905	9.5	21.3
6 10	18 22.23	-6 17.6	2.288	3.244	7.2	20.4	6 10	18 23.90	-17 58.8	1.904	2.890	6.0	21.1
6 20	18 14.38	-6 55.5	2.247	3.232	5.3	20.2	6 20	18 14.90	-18 16.2	1.862	2.874	2.5	20.8
6 30	18 6.08	-7 45.9	2.234	3.220	5.3	20.2	6 30	18 5.31	-18 37.0	1.848	2.858	3.0	20.8
7 10	17 58.10	-8 47.0	2.248	3.207	7.2	20.3	7 10	17 56.13	-19 0.2	1.862	2.841	6.8	21.0
7 20	17 51.15	-9 56.1	2.290	3.194	9.8	20.5	7 20	17 48.27	-19 25.0	1.901	2.824	10.5	21.2
7 30	17 45.83	-11 10.1	2.355	3.182	12.3	20.6	7 30	17 42.49	-19 51.0	1.963	2.807	13.8	21.4
22411	1995 <i>TR</i>		6 23.9 334°87	4°0/23.8	18		366480	2002 <i>JX</i> ₅₇		6 23.9 17°52	4°1/23.7	16	
5 21	18 35.23	-16 50.7	1.278	2.162	17.1	17.3	5 21	18 33.27	-18 10.5	0.958	1.863	19.6	20.0
5 31	18 30.99	-16 9.7	1.208	2.154	13.0	17.0	5 31	18 29.90	-17 17.6	0.913	1.869	14.8	19.8
6 10	18 23.93	-15 34.1	1.158	2.146	8.5	16.8	6 10	18 23.34	-16 30.7	0.885	1.878	9.4	19.5
6 20	18 14.92	-15 5.9	1.130	2.139	4.5	16.5	6 20	18 14.74	-15 52.6	0.877	1.888	4.8	19.3
6 30	18 5.25	-14 46.8	1.126	2.133	5.3	16.5	6 30	18 5.73	-15 25.8	0.891	1.899	5.7	19.4
7 10	17 56.41	-14 38.0	1.145	2.127	9.7	16.8	7 10	17 58.00	-15 11.5	0.925	1.912	10.5	19.7
7 20	17 49.63	-14 39.4	1.186	2.122	14.3	17.0	7 20	17 52.82	-15 9.5	0.980	1.927	15.4	20.0
7 30	17 45.81	-14 50.1	1.245	2.117	18.4	17.3	7 30	17 50.95	-15 18.0	1.051	1.942	19.6	20.3
238819	2005 <i>QL</i> ₁		6 23.9 323°87	2°9/24.1	18		275220	2009 <i>WB</i> ₁₉₆		6 23.9 151°57	0°4/23.9	17	
5 21	18 30.18	-13 53.8	2.623	3.474	10.4	19.8	5 21	18 38.78	-24 12.6	1.896	2.760	13.3	21.6
5 31	18 26.00	-13 41.9	2.534	3.461	8.0	19.6	5 31	18 32.83	-24 19.8	1.826	2.764	9.8	21.4
6 10	18 20.40	-13 35.4	2.470	3.449	5.3	19.4	6 10	18 24.68	-24 26.7	1.779	2.768	5.9	21.1
6 20	18 13.84	-13 34.9	2.433	3.436	3.2	19.2	6 20	18 15.10	-24 31.5	1.758	2.772	1.7	20.9
6 30	18 6.95	-13 40.5	2.423	3.424	3.5	19.2	6 30	18 5.11	-24 33.0	1.764	2.776	2.7	20.9
7 10	18 0.40	-13 52.0	2.440	3.412	5.9	19.4	7 10	17 55.84	-24 31.2	1.798	2.779	6.8	21.2
7 20	17 54.79	-14 8.7	2.483	3.401	8.6	19.5	7 20	17 48.21	-24 26.9	1.856	2.782	10.6	21.4
7 30	17 50.66	-14 29.8	2.550	3.390	11.1	19.7	7 30	17 42.92	-24 21.7	1.937	2.785	13.8	21.7
268440	2005 <i>VH</i> ₁₂₄		6 23.9 93°03	1°8/23.8	17		237799						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
21774	O'Brien		6 23.9 214°04'	4°0'/24.2	18		514465	2016 UF ₁₂₄		6 23.9 222°99'	3°6'/23.5	18	
5 21	18 38.18	-13 32.5	1.660	2.519	15.0	19.5	5 21	18 37.48	-35 13.4	2.935	3.773	9.8	21.9
5 31	18 32.62	-13 19.9	1.584	2.515	11.6	19.3	5 31	18 31.48	-35 47.4	2.847	3.763	7.6	21.7
6 10	18 24.70	-13 16.2	1.531	2.511	7.8	19.1	6 10	18 23.76	-36 15.8	2.784	3.753	5.3	21.5
6 20	18 15.14	-13 22.1	1.502	2.507	4.5	18.9	6 20	18 14.86	-36 35.9	2.748	3.743	3.7	21.4
6 30	18 5.02	-13 37.5	1.499	2.502	4.9	18.9	6 30	18 5.53	-36 45.7	2.741	3.732	4.1	21.4
7 10	17 55.55	-14 1.3	1.521	2.497	8.4	19.1	7 10	17 56.60	-36 44.9	2.762	3.720	6.1	21.5
7 20	17 47.75	-14 32.2	1.568	2.491	12.3	19.3	7 20	17 48.81	-36 34.5	2.810	3.708	8.4	21.7
7 30	17 42.41	-15 8.2	1.636	2.486	15.9	19.5	7 30	17 42.78	-36 16.8	2.881	3.696	10.6	21.8
141015	2001 WT ₄₄		6 23.9 167°89'	3°0'/23.9	17		483114	2015 MO ₁₂₈		6 23.9 277°11'	2°9'/23.6	18	
5 21	18 34.47	-14 54.6	2.341	3.192	11.5	20.6	5 21	18 36.62	-31 3.6	2.312	3.168	11.5	21.3
5 31	18 29.20	-14 29.3	2.267	3.194	8.8	20.6	5 31	18 31.23	-31 33.6	2.221	3.152	8.7	21.1
6 10	18 22.33	-14 8.9	2.216	3.195	5.8	20.2	6 10	18 23.79	-31 59.9	2.154	3.135	5.7	20.9
6 20	18 14.41	-13 54.0	2.192	3.196	3.3	20.1	6 20	18 14.91	-32 19.5	2.113	3.119	3.2	20.7
6 30	18 6.21	-13 45.2	2.196	3.197	3.7	20.1	6 30	18 5.46	-32 30.2	2.100	3.102	3.8	20.7
7 10	17 58.50	-13 42.7	2.227	3.198	6.4	20.3	7 10	17 56.45	-32 31.4	2.114	3.086	6.7	20.9
7 20	17 51.98	-13 46.2	2.284	3.199	9.4	20.4	7 20	17 48.77	-32 23.9	2.153	3.069	9.8	21.0
7 30	17 47.19	-13 55.2	2.364	3.200	12.0	20.6	7 30	17 43.18	-32 10.1	2.216	3.052	12.7	21.2
8228	1996 YB ₂		6 23.9 245°72'	6°6'/24.1	18		83235	2001 RB ₄₄		6 23.9 257°94'	0°8'/23.9	18	
5 21	18 35.85	-5 48.0	2.052	2.882	13.7	17.2	5 21	18 36.23	-25 17.1	2.164	3.026	11.9	19.8
5 31	18 30.55	-5 13.7	1.965	2.868	11.1	17.0	5 31	18 30.86	-25 25.1	2.080	3.017	8.9	19.6
6 10	18 23.32	-4 51.3	1.900	2.854	8.6	16.9	6 10	18 23.52	-25 32.2	2.020	3.008	5.4	19.4
6 20	18 14.74	-4 43.1	1.860	2.839	6.8	16.7	6 20	18 14.82	-25 36.7	1.986	3.000	1.7	19.1
6 30	18 5.64	-4 50.6	1.846	2.824	7.0	16.7	6 30	18 5.66	-25 37.5	1.980	2.991	2.5	19.1
7 10	17 56.95	-5 13.5	1.858	2.808	9.1	16.8	7 10	17 57.02	-25 34.4	2.001	2.982	6.3	19.4
7 20	17 49.52	-5 50.1	1.895	2.792	11.9	16.9	7 20	17 49.75	-25 28.3	2.048	2.972	9.8	19.6
7 30	17 44.04	-6 37.7	1.953	2.775	14.7	17.1	7 30	17 44.53	-25 20.5	2.117	2.963	12.9	19.7
427270	2014 WT ₁₆₇		6 23.9 274°56'	1°4'/23.8	17		234282	2000 WY ₁₆₂		6 23.9 255°36'	2°3'/24.0	18	
5 21	18 40.11	-25 1.6	1.423	2.300	16.1	21.2	5 21	18 37.20	-16 51.5	2.073	2.928	12.6	21.8
5 31	18 34.86	-25 27.8	1.338	2.282	12.1	21.0	5 31	18 31.67	-16 48.2	1.978	2.909	9.6	21.5
6 10	18 26.48	-25 55.4	1.273	2.264	7.5	20.6	6 10	18 24.08	-16 50.0	1.906	2.890	6.1	21.3
6 20	18 15.75	-26 20.6	1.232	2.246	2.5	20.3	6 20	18 15.01	-16 56.6	1.861	2.870	2.8	21.0
6 30	18 3.98	-26 40.0	1.216	2.228	3.7	20.3	6 30	18 5.33	-17 7.7	1.843	2.850	3.4	21.0
7 10	17 52.82	-26 52.0	1.225	2.209	9.0	20.6	7 10	17 56.03	-17 22.6	1.852	2.830	7.0	21.2
7 20	17 43.75	-26 57.2	1.257	2.190	13.9	20.8	7 20	17 48.03	-17 40.8	1.887	2.808	10.7	21.4
7 30	17 37.87	-26 57.9	1.309	2.171	18.3	21.0	7 30	17 42.09	-18 1.9	1.945	2.787	14.0	21.6
305479	2008 DQ ₆₈		6 23.9 155°74'	6°4'/24.4	18		425892	2011 FO ₅₁		6 23.9 102°33'	7°7'/23.9	17	
5 21	18 32.93	-1 3.3	2.815	3.615	11.2	21.5	5 21	18 46.87	-43 16.5	1.900	2.728	14.7	20.9
5 31	18 27.78	-0 29.3	2.746	3.621	9.3	21.4	5 31	18 39.21	-44 9.7	1.849	2.747	12.0	20.8
6 10	18 21.36	-0 6.9	2.701	3.627	7.6	21.3	6 10	18 28.65	-44 47.9	1.820	2.765	9.5	20.6
6 20	18 14.12	+0 2.0	2.681	3.633	6.5	21.2	6 20	18 16.27	-45 5.1	1.815	2.783	7.9	20.6
6 30	18 6.67	-0 3.2	2.687	3.638	6.6	21.2	6 30	18 3.55	-44 58.3	1.836	2.801	8.1	20.6
7 10	17 59.62	-0 22.3	2.720	3.643	7.8	21.3	7 10	17 52.03	-44 28.9	1.882	2.818	9.9	20.8
7 20	17 53.50	-0 53.6	2.779	3.648	9.5	21.5	7 20	17 42.91	-43 41.8	1.951	2.835	12.3	20.9
7 30	17 48.77	-1 34.8	2.860	3.652	11.3	21.6	7 30	17 36.92	-42 43.6	2.042	2.851	14.6	21.1
225910	2002 AS ₅₅		6 23.9 95°50'	1°5'/23.9	17		283721	2002 TC ₁₇₂		6 23.9 311°06'	4°0'/23.4	18	
5 21	18 38.01	-19 19.2	1.783	2.647	13.9	20.7	5 21	18 35.12	-16 38.6	1.684	2.553	14.4	19.9
5 31	18 32.20	-19 16.5	1.723	2.660	10.4	20.5	5 31	18 30.45	-15 41.1	1.596	2.533	11.0	19.6
6 10	18 24.27	-19 17.5	1.685	2.673	6.3	20.3	6 10	18 23.47	-14 45.8	1.530	2.513	7.4	19.4
6 20	18 14.98	-19 21.3	1.673	2.686	2.3	20.0	6 20	18 14.85	-13 54.8	1.488	2.494	4.3	19.1
6 30	18 5.38	-19 27.3	1.688	2.698	3.1	20.1	6 30	18 5.62	-13 11.0	1.472	2.475	5.1	19.1
7 10	17 56.57	-19 35.1	1.730	2.711	7.1	20.4	7 10	17 56.93	-12 36.7	1.482	2.456	8.7	19.3
7 20	17 49.44	-19 44.5	1.796	2.723	10.8	20.6	7 20	17 49.82	-12 13.3	1.514	2.437	12.7	19.5
7 30	17 44.64	-19 55.6	1.884	2.735	14.0	20.9	7 30	17 45.09	-12 1.0	1.568	2.420	16.3	19.7
500779	2013 EP ₁₀		6 23.9 126°39'	8°2'/25.4	18		350985	2003 FN ₈₇		6 23.9 142°85'	3°1'/24.3	18	
5 21	18 32.94	+10 15.9	3.284	4.011	11.1	22.6	5 21	18 34.31	-12 50.8	2.508	3.352	11.1	21.5
5 31	18 27.57	+10 56.0	3.232	4.030	9.9	22.5	5 31	18 28.99	-12 47.6	2.437	3.359	8.5	21.3
6 10	18 21.13	+11 21.0	3.201	4.049	8.9	22.5	6 10	18 22.18	-12 51.3	2.390	3.365	5.7	21.2
6 20	18 14.05	+11 28.8	3.194	4.067	8.3	22.4	6 20	18 14.41	-13 1.7	2.369	3.372	3.4	21.0
6 30	18 6.83	+11 18.6	3.211	4.084	8.3	22.5	6 30	18 6.37	-13 18.6	2.377	3.378	3.6	21.1
7 10	18 0.01	+10 51.3	3.253	4.101	8.8	22.5	7 10	17 58.79	-13 41.1	2.413	3.384	6.1	21.2
7 20	17 54.03	+10 8.7	3.319	4.117	9.8	22.6	7 20	17 52.31	-14 8.3	2.475	3.389	8.8	21.4
7 30	17 49.28	+9 13.8	3.406	4.133	10.8	22.7	7 30	17 47.43	-14 38.9	2.561	3.394	11.3	21.6
57841	2001 XG ₅₃		6 23.9 15°07'	0°9'/23.8	18		162440	2000 GR ₈		6 23.9 196°17'	3°2'/24.1	18	
5 21	18 35.55	-21 50.1	0.998	1.900	19.2	17.9	5 21	18 35.49	-13 5.2	2.511	3.352	11.1	21.1
5 31	18 31.90	-22 41.4	0.946	1.903	14.3	17.6	5 31	18 29.92	-12 51.6	2.429	3.350	8.6	20.9
6 10	18 24.79	-23 40.0	0.912	1.908	8.6	17.3	6 10	18 22.79	-12 43.9	2.372	3.346	5.8	20.8
6 20	18 15.24	-24 40.4	0.899	1.913	2.5	17.0	6 20	18 14.62	-12 42.8	2.341	3.343	3.5	20.6
6 30	18 4.94	-25 36.8	0.908	1.920	4.0	17.1	6 30	18 6.11	-12 48.3	2.339	3.338	3.8	20.6
7 10	17 55.80	-26 25.0	0.939	1.928	9.9	17.4	7 10	17 58.02	-13 0.2	2.365	3.333	6.3	20.8
7 20	17 49.34	-27 3.7	0.990	1.937	15.2	17.8	7 20	17 51.02	-13 17.6	2.417	3.328	9.1	20.9
7 30	17 46.54	-27 33.7	1.058	1.947	19.7	18.1	7 30	17 45.66	-13 39.8	2.493	3.322	11.7	21.1
336448	2008 UP ₃₃₀		6 23.9 267°28'	1°4'/23.9	18		218281	2003 FX ₆₂		6 23.9 128°69'	2°1'/24.1	17	
5 21	18 37.34	-19											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
394771	2008 <i>GG</i> ₄₈		6 23.9	29 ^o .74	9 ^o .6/24.6	16	389580	2011 <i>CU</i> ₂		6 23.9	247 ^o .63	13 ^o .0/27.9	17	
5 21	18 32.19	+ 1 37.6	1.926	2.738	15.1	20.5	5 21	18 42.06	+ 6 46.6	1.273	2.076	21.9	20.3	
5 31	18 27.75	+ 2 37.7	1.870	2.745	13.0	20.4	5 31	18 36.25	+ 6 44.0	1.198	2.067	19.1	20.0	
6 10	18 21.57	+ 3 19.7	1.834	2.753	11.0	20.3	6 10	18 27.34	+ 6 5.1	1.138	2.058	16.1	19.8	
6 20	18 14.27	+ 3 40.1	1.820	2.762	9.8	20.2	6 20	18 16.09	+ 4 44.1	1.098	2.049	13.7	19.7	
6 30	18 6.70	+ 3 37.0	1.830	2.771	9.8	20.3	6 30	18 3.85	+ 2 40.2	1.081	2.039	13.1	19.6	
7 10	17 59.72	+ 3 11.3	1.864	2.780	11.1	20.4	7 10	17 52.23	+ 0 0.0	1.086	2.029	14.7	19.6	
7 20	17 54.06	+ 2 25.8	1.919	2.790	13.0	20.5	7 20	17 42.67	- 3 4.3	1.115	2.019	17.8	19.8	
7 30	17 50.29	+ 1 25.1	1.995	2.800	15.0	20.7	7 30	17 36.28	- 6 19.1	1.164	2.008	21.2	20.0	
150772	2001 <i>QV</i> ₂₃₇		6 23.9	314 ^o .52	2 ^o .0/24.0	17	389679	2011 <i>QB</i> ₉		6 23.9	326 ^o .86	3 ^o .0/23.9	17	
5 21	18 34.79	-18 54.8	1.353	2.237	16.3	19.9	5 21	18 37.53	-30 58.4	1.884	2.748	13.3	21.0	
5 31	18 30.89	-18 51.6	1.266	2.214	12.4	19.6	5 31	18 32.16	-31 14.7	1.809	2.745	10.1	20.8	
6 10	18 24.11	-18 54.2	1.200	2.191	7.8	19.3	6 10	18 24.45	-31 25.6	1.757	2.741	6.5	20.6	
6 20	18 15.14	-19 2.4	1.156	2.169	3.0	18.9	6 20	18 15.18	-31 28.3	1.729	2.737	3.4	20.4	
6 30	18 5.20	-19 15.2	1.136	2.147	3.9	18.9	6 30	18 5.41	-31 20.8	1.728	2.734	4.0	20.4	
7 10	17 55.80	-19 31.7	1.139	2.126	9.1	19.1	7 10	17 56.35	-31 3.6	1.754	2.731	7.4	20.6	
7 20	17 48.29	-19 51.3	1.165	2.105	14.1	19.4	7 20	17 49.01	-30 38.8	1.804	2.728	10.9	20.8	
7 30	17 43.78	-20 13.7	1.210	2.085	18.6	19.6	7 30	17 44.13	-30 9.5	1.876	2.725	14.1	21.0	
316044	2009 <i>HQ</i> ₇		6 23.9	146 ^o .28	2 ^o .9/24.2	17	162543	2000 <i>QC</i> ₁₇₇		6 23.9	315 ^o .29	2 ^o .3/23.9	17	
5 21	18 39.68	-15 47.9	1.640	2.502	15.1	21.5	5 21	18 36.36	-19 33.0	1.221	2.109	17.4	20.1	
5 31	18 33.69	-15 45.2	1.574	2.508	11.4	21.3	5 31	18 32.18	-19 13.3	1.146	2.095	13.2	19.8	
6 10	18 25.32	-15 49.9	1.530	2.514	7.3	21.1	6 10	18 24.91	-18 57.6	1.090	2.082	8.3	19.5	
6 20	18 15.38	-16 1.6	1.511	2.520	3.5	20.8	6 20	18 15.39	-18 46.1	1.057	2.070	3.3	19.1	
6 30	18 4.99	-16 19.5	1.518	2.525	4.0	20.9	6 30	18 5.02	-18 38.8	1.047	2.057	4.3	19.1	
7 10	17 55.37	-16 42.3	1.552	2.530	8.0	21.1	7 10	17 55.42	-18 36.3	1.059	2.046	9.6	19.4	
7 20	17 47.53	-17 9.0	1.609	2.535	11.9	21.4	7 20	17 48.02	-18 39.0	1.093	2.035	14.8	19.7	
7 30	17 42.23	-17 38.5	1.689	2.539	15.4	21.6	7 30	17 43.84	-18 46.9	1.146	2.024	19.2	19.9	
352066	2006 <i>WM</i> ₇₃		6 23.9	139 ^o .43	1 ^o .2/23.9	17	308521	2005 <i>UF</i> ₅₃		6 23.9	175 ^o .62	1 ^o .4/23.8	18	
5 21	18 35.19	-20 30.6	2.239	3.098	11.7	21.3	5 21	18 35.72	-26 59.2	2.719	3.571	10.0	21.6	
5 31	18 29.87	-20 17.7	2.165	3.100	8.7	21.1	5 31	18 30.13	-27 23.7	2.641	3.573	7.5	21.4	
6 10	18 22.81	-20 6.3	2.115	3.103	5.3	20.9	6 10	18 22.95	-27 46.7	2.589	3.574	4.6	21.2	
6 20	18 14.63	-19 56.2	2.092	3.104	1.9	20.7	6 20	18 14.71	-28 6.4	2.563	3.575	1.8	21.0	
6 30	18 6.14	-19 47.4	2.096	3.106	2.6	20.7	6 30	18 6.14	-28 21.4	2.567	3.576	2.4	21.1	
7 10	17 58.20	-19 40.1	2.128	3.108	6.0	21.0	7 10	17 58.00	-28 31.0	2.600	3.576	5.3	21.3	
7 20	17 51.55	-19 34.8	2.186	3.110	9.3	21.2	7 20	17 50.98	-28 35.8	2.659	3.576	8.1	21.5	
7 30	17 46.78	-19 31.9	2.267	3.112	12.2	21.4	7 30	17 45.64	-28 36.8	2.742	3.576	10.6	21.6	
482163	2010 <i>TC</i> ₁₀₀		6 23.9	227 ^o .09	6 ^o .6/24.1	17	375689	2009 <i>KT</i> ₂₃		6 23.9	337 ^o .86	6 ^o .2/24.2	17	
5 21	18 32.39	- 2 31.9	2.581	3.393	11.7	22.1	5 21	18 29.91	-12 46.2	1.033	1.930	19.1	20.3	
5 31	18 27.59	- 1 52.0	2.503	3.388	9.7	22.0	5 31	18 27.68	-12 14.8	0.961	1.911	15.0	20.0	
6 10	18 21.37	- 1 23.5	2.448	3.383	7.9	21.8	6 10	18 22.35	-11 56.7	0.907	1.894	10.4	19.6	
6 20	18 14.22	- 1 8.6	2.418	3.378	6.7	21.8	6 20	18 14.70	-11 55.2	0.872	1.877	6.7	19.4	
6 30	18 6.76	- 1 8.4	2.414	3.372	6.8	21.8	6 30	18 6.07	-12 12.1	0.858	1.863	7.1	19.3	
7 10	17 59.68	- 1 22.8	2.436	3.366	8.2	21.8	7 10	17 58.17	-12 46.4	0.865	1.850	11.4	19.5	
7 20	17 53.58	- 1 50.5	2.483	3.360	10.2	22.0	7 20	17 52.46	-13 35.0	0.891	1.839	16.4	19.8	
7 30	17 48.96	- 2 29.2	2.552	3.354	12.2	22.1	7 30	17 50.09	-14 33.4	0.933	1.829	21.0	20.0	
104165	2000 <i>EY</i> ₇₇		6 23.9	342 ^o .23	2 ^o .1/24.1	18	389955	2012 <i>TR</i> ₁₇₈		6 23.9	186 ^o .86	1 ^o .1/23.9	17	
5 21	18 34.68	-17 31.3	1.726	2.595	14.1	19.1	5 21	18 37.04	-20 53.1	2.159	3.017	12.1	21.7	
5 31	18 30.03	-17 35.8	1.652	2.591	10.6	18.8	5 31	18 31.33	-20 40.1	2.082	3.017	9.0	21.5	
6 10	18 23.16	-17 46.6	1.600	2.587	6.6	18.6	6 10	18 23.76	-20 28.4	2.029	3.016	5.5	21.3	
6 20	18 14.79	-18 2.8	1.572	2.584	2.8	18.3	6 20	18 14.96	-20 17.5	2.002	3.015	1.9	21.0	
6 30	18 5.90	-18 23.5	1.571	2.581	3.4	18.4	6 30	18 5.79	-20 7.3	2.004	3.014	2.6	21.1	
7 10	17 57.62	-18 47.4	1.596	2.578	7.4	18.6	7 10	17 57.21	-19 58.3	2.033	3.013	6.3	21.3	
7 20	17 50.91	-19 13.5	1.645	2.576	11.3	18.8	7 20	17 49.99	-19 51.0	2.088	3.011	9.7	21.5	
7 30	17 46.51	-19 41.0	1.715	2.574	14.8	19.1	7 30	17 44.76	-19 46.1	2.166	3.009	12.7	21.7	
237468	2000 <i>BB</i> ₄₂		6 23.9	0 ^o .65	4 ^o .2/24.1	17	175664	1993 <i>KK</i> ₁		6 23.9	348 ^o .70	1 ^o .0/24.0	18	
5 21	18 34.04	-30 55.0	0.887	1.796	20.3	19.7	5 21	18 33.15	-19 54.4	1.683	2.559	14.0	19.3	
5 31	18 31.32	-31 5.8	0.833	1.793	15.4	19.4	5 31	18 29.00	-20 6.7	1.609	2.553	10.5	19.0	
6 10	18 24.68	-31 7.2	0.797	1.790	10.0	19.1	6 10	18 22.61	-20 23.6	1.556	2.547	6.4	18.8	
6 20	18 15.31	-30 54.5	0.779	1.790	4.9	18.8	6 20	18 14.67	-20 43.9	1.528	2.542	2.1	18.5	
6 30	18 5.16	-30 25.6	0.781	1.791	5.7	18.9	6 30	18 6.19	-21 6.1	1.526	2.537	2.9	18.5	
7 10	17 56.45	-29 42.9	0.804	1.794	11.0	19.2	7 10	17 58.32	-21 28.8	1.549	2.534	7.3	18.8	
7 20	17 50.81	-28 52.3	0.845	1.798	16.4	19.5	7 20	17 52.03	-21 51.3	1.596	2.531	11.4	19.0	
7 30	17 49.21	-28 0.2	0.902	1.804	21.0	19.8	7 30	17 48.10	-22 13.4	1.664	2.529	14.9	19.3	
387774	2003 <i>TM</i> ₅₇		6 23.9	241 ^o .99	2 ^o .6/23.6	18	13186	1996 <i>UM</i>		6 23.9	249 ^o .86	19 ^o .5/21.8	18	R
5 21	18 39.71	-30 3.1	2.470	3.318	11.1	21.9	5 21	18 38.18	+12 12.3	1.256	2.040	23.1	17.6	
5 31	18 33.46	-30 39.4	2.372	3.300	8.4	21.6	5 31	18 33.27	+14 35.9	1.201	2.032	21.4	17.5	
6 10	18 25.16	-31 13.1	2.300	3.281	5.5	21.4	6 10	18 25.45	+16 28.6	1.161	2.024	20.1	17.4	
6 20	18 15.38	-31 41.1	2.254	3.261	2.9	21.2	6 20	18 15.54	+17 39.1	1.137	2.015	19.5	17.3	
6 30	18 4.96	-32 0.8	2.237	3.241	3.5	21.2	6 30	18 4.84	+17 59.6	1.130	2.006	19.8	17.3	
7 10	17 54.89	-32 11.1	2.249	3.219	6.5	21.4	7 10	17 54.87	+17 29.0	1.140	1.996	20.9	17.3	
7 20	17 46.09	-32 12.8	2.287	3.198	9.6	21.6	7 20	17 46.93	+16 12.5	1.166	1.987	22.7	17.4	
7 30	17 39.30	-32 7.7	2.349	3.										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
193546	2000 <i>YJ</i> ₁₂₀		6 23.9 205°95	4.4°/23.9	18		178371	1997 <i>ET</i> ₄		6 23.9 134°28	2°3'/23.8	17	
5 21	18 42.45	-37 0.2	2.434	3.269	11.6	20.7	5 21	18 37.05	-30 21.2	2.480	3.333	10.9	21.0
5 31	18 35.45	-37 20.5	2.350	3.263	9.1	20.5	5 31	18 31.25	-30 41.3	2.410	3.340	8.2	20.8
6 10	18 26.30	-37 32.0	2.290	3.257	6.5	20.4	6 10	18 23.69	-30 57.4	2.364	3.346	5.2	20.6
6 20	18 15.72	-37 31.4	2.257	3.250	4.6	20.2	6 20	18 14.99	-31 7.2	2.345	3.353	2.7	20.5
6 30	18 4.69	-37 16.8	2.252	3.242	4.9	20.2	6 30	18 5.98	-31 9.4	2.354	3.359	3.2	20.5
7 10	17 54.31	-36 48.8	2.274	3.234	7.1	20.4	7 10	17 57.54	-31 4.1	2.391	3.365	5.9	20.7
7 20	17 45.50	-36 10.0	2.323	3.225	9.8	20.5	7 20	17 50.42	-30 52.4	2.454	3.370	8.8	20.9
7 30	17 38.95	-35 24.3	2.395	3.215	12.4	20.7	7 30	17 45.20	-30 36.3	2.541	3.376	11.3	21.1
146196	2000 <i>TJ</i> ₅₅		6 23.9 180°64	0°4'/23.9	18		63360	2001 <i>FS</i> ₁₆₂		6 23.9 22°23	7°0'/24.6	18	
5 21	18 35.51	-24 16.6	2.660	3.513	10.2	21.3	5 21	18 33.35	- 8 10.9	1.414	2.278	16.9	18.2
5 31	18 29.96	-24 23.9	2.581	3.514	7.6	21.1	5 31	18 29.19	- 7 35.6	1.359	2.285	13.4	18.0
6 10	18 22.85	-24 30.8	2.527	3.514	4.5	20.9	6 10	18 22.72	- 7 15.6	1.324	2.294	9.9	17.9
6 20	18 14.71	-24 36.1	2.500	3.514	1.3	20.7	6 20	18 14.74	- 7 13.3	1.312	2.303	7.4	17.7
6 30	18 6.26	-24 39.0	2.503	3.514	2.0	20.8	6 30	18 6.39	- 7 29.5	1.323	2.314	7.5	17.8
7 10	17 58.27	-24 39.3	2.534	3.513	5.2	21.0	7 10	17 58.85	- 8 2.6	1.357	2.325	10.1	17.9
7 20	17 51.40	-24 37.6	2.592	3.512	8.2	21.2	7 20	17 53.11	- 8 49.2	1.414	2.336	13.5	18.2
7 30	17 46.18	-24 34.6	2.674	3.511	10.8	21.3	7 30	17 49.84	- 9 45.2	1.490	2.349	16.6	18.4
175346	2005 <i>NK</i> ₁₂₂		6 23.9 359°59	2°3'/24.0	18		473269	2015 <i>MJ</i> ₄₂		6 23.9 254°98	7°4'/23.7	18	
5 21	18 37.51	-30 32.5	1.996	2.858	12.8	19.6	5 21	18 34.65	- 4 56.7	2.033	2.863	13.8	21.5
5 31	18 31.94	-30 29.7	1.923	2.858	9.6	19.4	5 31	18 29.65	- 3 57.1	1.956	2.856	11.3	21.3
6 10	18 24.22	-30 21.1	1.872	2.857	6.1	19.2	6 10	18 22.82	- 3 9.1	1.902	2.850	9.0	21.2
6 20	18 15.12	-30 4.7	1.847	2.857	2.8	19.0	6 20	18 14.77	- 2 35.7	1.873	2.843	7.5	21.1
6 30	18 5.66	-29 39.7	1.849	2.857	3.4	19.0	6 30	18 6.31	- 2 19.5	1.869	2.837	7.7	21.1
7 10	17 56.92	-29 7.5	1.879	2.857	6.8	19.3	7 10	17 58.34	- 2 20.9	1.890	2.830	9.6	21.2
7 20	17 49.82	-28 30.5	1.933	2.858	10.3	19.5	7 20	17 51.65	- 2 38.7	1.935	2.823	12.1	21.3
7 30	17 45.01	-27 51.7	2.010	2.858	13.3	19.7	7 30	17 46.86	- 3 10.2	2.001	2.816	14.6	21.5
122900	2000 <i>SB</i> ₁₅₈		6 23.9 287°76	6°1'/24.2	18		29907	1999 <i>JD</i>		6 23.9 37°34	7°6'/22.7	18	
5 21	18 42.68	-38 45.0	1.722	2.573	15.0	19.6	5 21	18 41.90	-37 0.6	1.465	2.329	16.4	17.5
5 31	18 36.58	-39 2.1	1.635	2.555	12.0	19.3	5 31	18 36.33	-38 33.6	1.410	2.336	13.0	17.4
6 10	18 27.43	-39 6.4	1.568	2.536	8.8	19.1	6 10	18 27.44	-39 57.4	1.375	2.343	9.8	17.2
6 20	18 16.12	-38 52.6	1.525	2.518	6.4	18.9	6 20	18 16.18	-41 3.4	1.364	2.351	7.7	17.1
6 30	18 4.06	-38 17.7	1.508	2.499	6.7	18.9	6 30	18 4.13	-41 45.1	1.377	2.359	8.4	17.1
7 10	17 52.84	-37 22.9	1.516	2.480	9.5	19.0	7 10	17 53.09	-42 1.1	1.414	2.368	11.1	17.3
7 20	17 43.82	-36 13.0	1.548	2.462	13.0	19.2	7 20	17 44.56	-41 54.9	1.473	2.376	14.3	17.5
7 30	17 37.96	-34 55.0	1.600	2.444	16.4	19.3	7 30	17 39.53	-41 32.5	1.550	2.385	17.3	17.8
1473	<i>Ounas</i>		6 23.9 311°36	9°0'/22.5	18 A		210773	2001 <i>AL</i> ₁₉		6 23.9 203°04	4°8'/25.5	18	
5 21	18 34.31	- 7 20.8	1.493	2.350	16.5	15.3	5 21	18 46.89	- 6 53.4	1.201	2.050	20.2	20.1
5 31	18 30.16	- 5 49.4	1.406	2.324	13.6	15.1	5 31	18 40.22	- 8 15.6	1.126	2.048	15.9	19.8
6 10	18 23.51	- 4 26.7	1.339	2.299	10.8	14.8	6 10	18 29.98	-10 8.1	1.070	2.045	10.9	19.5
6 20	18 15.01	- 3 19.0	1.294	2.273	9.1	14.7	6 20	18 17.00	-12 27.7	1.038	2.042	6.0	19.2
6 30	18 5.72	- 2 31.7	1.273	2.248	9.7	14.6	6 30	18 2.76	-15 5.9	1.032	2.038	5.6	19.2
7 10	17 56.88	- 2 8.2	1.275	2.224	12.4	14.7	7 10	17 49.16	-17 50.3	1.053	2.034	10.4	19.4
7 20	17 49.66	- 2 8.5	1.298	2.200	15.9	14.8	7 20	17 37.92	-20 29.4	1.099	2.029	15.7	19.7
7 30	17 44.98	- 2 30.2	1.339	2.177	19.3	15.0	7 30	17 30.31	-22 55.9	1.166	2.024	20.3	20.0
270328	2001 <i>XG</i> ₁₁₆		6 23.9 211°51	1°3'/23.8	18		479948	2014 <i>HF</i> ₁₆₉		6 23.9 49°93	2°7'/23.6	18	
5 21	18 39.65	-25 36.6	2.196	3.051	12.0	21.2	5 21	18 36.67	-29 19.9	2.162	3.022	12.0	21.0
5 31	18 33.47	-26 5.9	2.111	3.044	9.0	20.9	5 31	18 31.29	-30 2.0	2.092	3.026	9.0	20.8
6 10	18 25.18	-26 35.2	2.050	3.037	5.5	20.7	6 10	18 23.87	-30 41.5	2.045	3.029	5.8	20.6
6 20	18 15.44	-27 1.6	2.016	3.029	2.0	20.5	6 20	18 15.08	-31 15.2	2.025	3.033	3.0	20.4
6 30	18 5.13	-27 23.0	2.011	3.020	2.8	20.5	6 30	18 5.85	-31 40.5	2.032	3.037	3.6	20.5
7 10	17 55.31	-27 38.3	2.033	3.011	6.4	20.7	7 10	17 57.19	-31 56.4	2.067	3.040	6.7	20.7
7 20	17 46.89	-27 47.8	2.082	3.001	9.9	20.9	7 20	17 49.99	-32 3.6	2.126	3.044	9.8	20.9
7 30	17 40.61	-27 53.0	2.154	2.991	13.0	21.1	7 30	17 44.92	-32 4.1	2.209	3.048	12.6	21.1
341209	2007 <i>RF</i> ₁₁₆		6 23.9 289°42	1°5'/23.9	17		168821	2000 <i>SH</i> ₂₇₀		6 23.9 204°97	3°8'/24.1	17	
5 21	18 35.94	-20 6.5	1.867	2.734	13.3	21.3	5 21	18 39.37	-14 10.1	1.744	2.599	14.6	21.1
5 31	18 30.87	-19 52.1	1.786	2.725	10.0	21.1	5 31	18 33.48	-13 52.1	1.667	2.596	11.2	20.9
6 10	18 23.67	-19 40.0	1.728	2.716	6.2	20.8	6 10	18 25.29	-13 41.7	1.612	2.591	7.5	20.6
6 20	18 15.00	-19 29.8	1.695	2.707	2.3	20.6	6 20	18 15.51	-13 39.4	1.581	2.586	4.3	20.4
6 30	18 5.83	-19 21.7	1.688	2.698	3.0	20.6	6 30	18 5.19	-13 45.6	1.578	2.581	4.7	20.5
7 10	17 57.23	-19 15.7	1.708	2.690	7.1	20.8	7 10	17 55.48	-13 59.8	1.601	2.575	8.2	20.6
7 20	17 50.14	-19 12.4	1.753	2.681	10.9	21.0	7 20	17 47.41	-14 21.0	1.648	2.568	12.0	20.9
7 30	17 45.27	-19 12.4	1.820	2.673	14.3	21.2	7 30	17 41.73	-14 47.9	1.717	2.561	15.4	21.1
61895	2000 <i>QV</i> ₂₂₄		6 23.9 169°55	3°4'/23.5	18		491615	2012 <i>TB</i> ₅₇		6 23.9 258°87	3°0'/23.9	17	
5 21	18 40.24	-29 51.8	1.844	2.705	13.7	18.0	5 21	18 36.29	-16 15.3	2.094	2.949	12.5	21.5
5 31	18 34.30	-30 44.4	1.773	2.707	10.3	17.8	5 31	18 30.96	-15 47.7	2.004	2.934	9.5	21.3
6 10	18 25.85	-31 34.2	1.725	2.708	6.7	17.6	6 10	18 23.68	-15 23.9	1.937	2.919	6.2	21.0
6 20	18 15.66	-32 16.7	1.702	2.709	3.7	17.4	6 20	18 15.04	-15 4.8	1.896	2.903	3.3	20.8
6 30	18 4.86	-32 48.1	1.706	2.709	4.4	17.4	6 30	18 5.91	-14 51.2	1.883	2.887	3.9	20.8
7 10	17 54.73	-33 6.9	1.737	2.710	7.8	17.6	7 10	17 57.21	-14 43.5	1.896	2.871	7.1	21.0
7 20	17 46.39	-33 14.2	1.793	2.710	11.4	17.8	7 20	17 49.82	-14 42.1	1.935	2.854	10.6	21.2
7 30	17 40.66	-33 12.7	1.870	2.710	14.5	18.0	7 30	17 44.41	-14 46.6	1.997	2.838	13.7	21.4
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
13783	1998 <i>UJ</i> ₂₀		6 23.9 280°22	0°5/23.9	18		14145	Sciam		6 23.9 286°70	2°8/24.1	18	
5 21	18 39.21	-23 17.3	1.638	2.508	14.7	18.0	5 21	18 37.40	-16 59.3	1.566	2.436	15.3	19.0
5 31	18 33.83	-23 1.6	1.544	2.485	11.1	17.7	5 31	18 32.55	-16 50.9	1.474	2.413	11.7	18.8
6 10	18 25.76	-22 44.9	1.472	2.462	6.8	17.4	6 10	18 25.04	-16 48.9	1.403	2.390	7.5	18.5
6 20	18 15.71	-22 26.2	1.425	2.439	2.0	17.0	6 20	18 15.54	-16 53.4	1.356	2.366	3.5	18.2
6 30	18 4.83	-22 5.1	1.404	2.415	3.1	17.1	6 30	18 5.15	-17 4.1	1.334	2.343	4.1	18.1
7 10	17 54.49	-21 42.7	1.408	2.392	8.1	17.3	7 10	17 55.20	-17 20.4	1.338	2.320	8.6	18.3
7 20	17 45.90	-21 20.8	1.437	2.368	12.7	17.5	7 20	17 46.92	-17 41.5	1.365	2.296	13.2	18.5
7 30	17 40.04	-21 1.6	1.486	2.344	16.8	17.7	7 30	17 41.32	-18 6.9	1.412	2.272	17.3	18.7
182155	2000 <i>SB</i> ₈₄		6 23.9 208°16	3°8/24.1	18		512992	2017 <i>UJ</i> ₃₇		6 23.9 292°42	2°3/23.8	17	
5 21	18 33.80	-11 15.5	2.612	3.451	10.8	20.6	5 21	18 39.15	-26 45.8	1.422	2.301	16.0	21.4
5 31	18 28.68	-10 55.4	2.530	3.447	8.4	20.4	5 31	18 34.32	-27 16.2	1.334	2.279	12.1	21.1
6 10	18 22.10	-10 42.0	2.473	3.442	5.9	20.2	6 10	18 26.35	-27 46.8	1.267	2.257	7.6	20.8
6 20	18 14.55	-10 36.2	2.441	3.437	4.0	20.1	6 20	18 15.96	-28 13.2	1.223	2.235	3.0	20.5
6 30	18 6.69	-10 38.4	2.438	3.432	4.2	20.1	6 30	18 4.48	-28 31.6	1.203	2.213	4.1	20.5
7 10	17 59.22	-10 48.3	2.463	3.427	6.4	20.2	7 10	17 53.54	-28 40.2	1.208	2.191	9.1	20.7
7 20	17 52.76	-11 5.3	2.513	3.421	8.9	20.4	7 20	17 44.67	-28 40.1	1.236	2.170	14.1	20.9
7 30	17 47.82	-11 28.2	2.588	3.415	11.4	20.5	7 30	17 39.01	-28 33.9	1.283	2.148	18.4	21.1
8781	Yurka		6 23.9 62°81	1°7/24.0	18	R	203023	2000 <i>AM</i> ₂₀₈		6 23.9 187°58	0°5/23.9	18	
5 21	18 39.84	-19 28.8	1.306	2.185	17.1	17.8	5 21	18 38.23	-22 19.5	2.143	3.000	12.2	20.5
5 31	18 34.15	-19 27.0	1.259	2.203	12.7	17.6	5 31	18 32.42	-23 0.0	2.065	3.000	9.0	20.3
6 10	18 25.73	-19 30.3	1.232	2.222	7.8	17.3	6 10	18 24.57	-23 43.4	2.012	3.000	5.5	20.0
6 20	18 15.61	-19 37.4	1.228	2.241	2.8	17.1	6 20	18 15.33	-24 27.0	1.985	2.999	1.6	19.8
6 30	18 5.19	-19 47.0	1.249	2.260	3.6	17.2	6 30	18 5.57	-25 8.1	1.986	2.997	2.5	19.8
7 10	17 55.92	-19 58.5	1.295	2.279	8.4	17.5	7 10	17 56.30	-25 44.9	2.016	2.996	6.3	20.1
7 20	17 48.90	-20 11.5	1.363	2.299	12.9	17.8	7 20	17 48.41	-26 16.7	2.072	2.994	9.8	20.3
7 30	17 44.82	-20 26.1	1.452	2.318	16.6	18.1	7 30	17 42.61	-26 43.8	2.151	2.992	12.9	20.5
437844	1999 <i>MN</i>		6 23.9 180°42	7°1/23.8	15	R	69365	1994 <i>QF</i>		6 23.9 245°82	4°6/23.8	18	
5 21	22 7.15	-10 52.1	0.283	1.052	74.2	21.4	5 21	18 42.14	-37 5.2	2.341	3.179	12.0	20.5
5 31	21 48.40	-13 16.6	0.220	1.091	63.8	20.6	5 31	18 35.48	-37 30.0	2.247	3.161	9.4	20.3
6 10	21 5.90	-17 56.9	0.158	1.115	47.7	19.4	6 10	18 26.50	-37 46.4	2.176	3.143	6.8	20.1
6 20	19 20.08	-25 41.6	0.112	1.122	17.6	17.8	6 20	18 15.90	-37 50.4	2.132	3.124	4.9	19.9
6 30	16 22.80	-26 47.0	0.111	1.114	27.5	18.1	6 30	18 4.69	-37 39.6	2.115	3.105	5.2	19.9
7 10	14 33.62	-20 6.7	0.155	1.090	58.2	19.6	7 10	17 54.02	-37 14.1	2.125	3.084	7.5	20.0
7 20	13 47.65	-15 35.1	0.214	1.050	75.2	20.8	7 20	17 44.92	-36 36.4	2.162	3.064	10.4	20.2
7 30	13 24.56	-12 57.0	0.272	0.992	87.1	21.6	7 30	17 38.17	-35 50.5	2.221	3.043	13.2	20.3
237943	2002 <i>QM</i> ₁₂₇		6 23.9 247°65	2°8/23.8	16		385732	2005 <i>UF</i> ₄₁₃		6 23.9 250°31	4°1/22.6	18	
5 21	18 38.32	-30 9.7	1.974	2.836	12.9	20.9	5 21	18 48.31	-22 32.4	1.156	2.031	19.1	19.9
5 31	18 32.70	-30 33.2	1.898	2.833	9.8	20.7	5 31	18 42.18	-24 57.5	1.076	2.020	14.5	19.6
6 10	18 24.81	-30 52.6	1.845	2.829	6.3	20.5	6 10	18 31.78	-27 40.9	1.018	2.008	9.1	19.3
6 20	18 15.38	-31 4.7	1.818	2.826	3.2	20.3	6 20	18 17.72	-30 30.3	0.985	1.995	4.4	19.0
6 30	18 5.45	-31 7.5	1.817	2.823	3.8	20.3	6 30	18 1.60	-33 9.5	0.978	1.983	6.4	19.0
7 10	17 56.17	-31 0.8	1.844	2.820	7.1	20.5	7 10	17 45.75	-35 25.0	0.997	1.969	12.1	19.3
7 20	17 48.53	-30 46.3	1.895	2.816	10.6	20.7	7 20	17 32.50	-37 11.1	1.038	1.956	17.6	19.6
7 30	17 43.27	-30 26.6	1.968	2.813	13.7	20.9	7 30	17 23.63	-38 30.1	1.097	1.942	22.3	19.8
274902	2009 <i>SU</i> ₁₀₂		6 23.9 274°23	3°2/24.2	17		348073	2003 <i>WN</i> ₂₂		6 23.9 311°30	1°3/24.3	18	
5 21	18 37.01	-15 32.9	1.655	2.520	14.8	21.0	5 21	18 38.45	-16 15.9	1.578	2.444	15.3	20.5
5 31	18 31.97	-15 24.4	1.572	2.507	11.3	20.8	5 31	18 33.77	-17 11.9	1.463	2.401	11.8	20.1
6 10	18 24.52	-15 23.4	1.510	2.494	7.4	20.5	6 10	18 26.14	-18 23.8	1.369	2.357	7.5	19.8
6 20	18 15.34	-15 30.1	1.473	2.481	3.8	20.3	6 20	18 15.99	-19 49.6	1.300	2.313	2.7	19.4
6 30	18 5.48	-15 44.1	1.461	2.468	4.3	20.3	6 30	18 4.29	-21 24.9	1.258	2.269	3.4	19.3
7 10	17 56.15	-16 4.8	1.475	2.455	8.2	20.5	7 10	17 52.46	-23 4.1	1.242	2.226	8.8	19.5
7 20	17 48.45	-16 30.8	1.513	2.441	12.4	20.7	7 20	17 42.00	-24 41.6	1.250	2.182	14.1	19.7
7 30	17 43.23	-17 1.2	1.572	2.428	16.1	20.9	7 30	17 34.29	-26 13.8	1.280	2.139	18.8	19.8
156991	2003 <i>LK</i> ₁		6 23.9 96°52	2°2/24.4	17		149012	2002 <i>AA</i> ₄₅		6 23.9 210°44	0°2/23.9	18	
5 21	18 38.65	-15 12.9	1.762	2.620	14.4	20.2	5 21	18 35.52	-22 41.6	2.571	3.425	10.5	21.1
5 31	18 32.84	-15 44.3	1.699	2.632	10.8	20.0	5 31	18 30.07	-22 43.0	2.487	3.421	7.8	20.9
6 10	18 24.83	-16 24.7	1.659	2.644	6.8	19.8	6 10	18 22.99	-22 44.8	2.428	3.416	4.7	20.7
6 20	18 15.38	-17 12.3	1.645	2.655	3.0	19.6	6 20	18 14.85	-22 46.1	2.397	3.411	1.4	20.4
6 30	18 5.51	-18 4.3	1.658	2.667	3.4	19.7	6 30	18 6.35	-22 46.3	2.394	3.405	2.1	20.5
7 10	17 56.33	-18 58.0	1.698	2.678	7.2	19.9	7 10	17 58.29	-22 45.4	2.419	3.399	5.4	20.7
7 20	17 48.80	-19 51.0	1.763	2.690	11.0	20.2	7 20	17 51.35	-22 43.6	2.471	3.393	8.5	20.9
7 30	17 43.62	-20 42.1	1.850	2.701	14.3	20.4	7 30	17 46.11	-22 41.7	2.547	3.386	11.2	21.1
191061	2002 <i>CM</i> ₁₁₈		6 23.9 205°00	0°5/23.9	18		368959	2007 <i>BY</i> ₄		6 23.9 221°08	6°3/23.8	18	
5 21	18 37.91	-21 40.6	1.838	2.703	13.5	21.3	5 21	18 45.37	-39 47.9	2.015	2.850	13.7	21.3
5 31	18 32.38	-21 46.8	1.763	2.702	10.1	21.0	5 31	18 38.24	-40 25.9	1.933	2.841	11.0	21.1
6 10	18 24.61	-21 55.1	1.711	2.700	6.1	20.8	6 10	18 28.32	-40 52.8	1.873	2.832	8.3	20.9
6 20	18 15.33	-22 4.0	1.684	2.698	1.8	20.5	6 20	18 16.45	-41 3.1	1.838	2.822	6.5	20.8
6 30	18 5.56	-22 12.4	1.685	2.696	2.7	20.6	6 30	18 3.91	-40 53.3	1.830	2.811	6.8	20.8
7 10	17 56.43	-22 19.7	1.712	2.694	7.0	20.8	7 10	17 52.15	-40 23.8	1.848	2.800	9.0	20.9
7 20	17 48.90	-22 26.1	1.764	2.692	10.9	21.1	7 20	17 42.40	-39 38.1	1.891	2.788	12.0	21.0
7 30	17 43.71	-22 32.5	1.838	2.689	14.3	21.3	7 30	17 35.56	-38 42.0	1.956	2.775	14.8	21.2
392915	2012 <i>VK</i> ₈₆		6 23.9 341°67	2°7/24.1	17		163992	2003 <i>UZ</i> ₁₄₇ </					

EPHEMERIDES

6 23.9

6 23.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
353139	2009 <i>HG</i> ₄	6 23.9 307°98		3°7/23.4 18			262441	2006 <i>UB</i> ₉₁	6 23.9 320°39		2°5/23.8 17		
5 21	18 37.72	-31 24.2	1.997	2.858	12.8	20.8	5 21	18 34.70	-18 34.7	1.868	2.735	13.3	20.6
5 31	18 32.38	-32 13.9	1.920	2.853	9.8	20.6	5 31	18 29.96	-18 1.0	1.787	2.725	10.0	20.4
6 10	18 24.71	-33 0.1	1.867	2.848	6.5	20.4	6 10	18 23.16	-17 29.7	1.728	2.715	6.4	20.1
6 20	18 15.41	-33 38.5	1.839	2.842	4.0	20.3	6 20	18 14.96	-17 1.5	1.695	2.705	3.0	19.9
6 30	18 5.50	-34 5.7	1.837	2.838	4.6	20.3	6 30	18 6.30	-16 37.5	1.688	2.696	3.6	19.9
7 10	17 56.15	-34 20.5	1.863	2.833	7.6	20.5	7 10	17 58.20	-16 18.9	1.707	2.687	7.3	20.1
7 20	17 48.40	-34 23.9	1.913	2.828	10.9	20.6	7 20	17 51.56	-16 6.2	1.751	2.678	11.0	20.3
7 30	17 43.06	-34 18.4	1.984	2.824	13.9	20.8	7 30	17 47.08	-15 59.8	1.817	2.670	14.4	20.5
439680	2014 <i>JM</i> ₁₆	6 23.9 320°83		3°5/24.8 18			299455	2006 <i>BA</i> ₆₀	6 23.9 135°81		2°3/23.9 17		
5 21	18 34.48	-11 0.5	2.115	2.962	12.7	20.6	5 21	18 43.63	-28 15.2	1.526	2.394	15.7	21.4
5 31	18 29.59	-11 26.0	2.034	2.956	9.8	20.4	5 31	18 37.02	-28 34.1	1.464	2.402	11.8	21.1
6 10	18 22.86	-12 2.7	1.975	2.950	6.7	20.2	6 10	18 27.57	-28 49.2	1.423	2.411	7.3	20.9
6 20	18 14.85	-12 50.0	1.942	2.944	4.0	20.1	6 20	18 16.25	-28 56.7	1.407	2.419	3.1	20.7
6 30	18 6.36	-13 46.3	1.936	2.939	4.1	20.0	6 30	18 4.44	-28 54.5	1.417	2.426	3.8	20.7
7 10	17 58.28	-14 49.1	1.958	2.933	6.9	20.2	7 10	17 53.66	-28 43.0	1.453	2.433	8.2	21.0
7 20	17 51.41	-15 55.4	2.006	2.928	10.1	20.4	7 20	17 45.10	-28 24.6	1.512	2.439	12.4	21.3
7 30	17 46.43	-17 2.9	2.078	2.923	13.1	20.6	7 30	17 39.57	-28 3.0	1.593	2.445	16.1	21.5
422607	2014 <i>TG</i> ₇₄	6 23.9 196°69		0°8/24.0 17			257625	1999 <i>TC</i> ₁₃₈	6 23.9 275°55		1°6/23.9 18		
5 21	18 40.09	-20 15.8	1.581	2.450	15.2	21.4	5 21	18 40.31	-26 28.3	1.589	2.459	15.0	21.3
5 31	18 34.33	-20 33.4	1.509	2.448	11.4	21.1	5 31	18 34.87	-26 42.8	1.498	2.438	11.4	21.0
6 10	18 25.96	-20 55.8	1.458	2.447	6.9	20.9	6 10	18 26.54	-26 56.0	1.428	2.417	7.1	20.7
6 20	18 15.78	-21 20.7	1.431	2.445	2.2	20.6	6 20	18 16.04	-27 4.8	1.382	2.395	2.5	20.4
6 30	18 4.96	-21 46.0	1.431	2.443	3.1	20.6	6 30	18 4.60	-27 6.6	1.362	2.373	3.5	20.4
7 10	17 54.86	-22 10.2	1.457	2.441	7.9	20.9	7 10	17 53.69	-27 0.8	1.368	2.350	8.4	20.6
7 20	17 46.62	-22 32.7	1.508	2.438	12.2	21.2	7 20	17 44.68	-26 48.9	1.397	2.328	13.0	20.8
7 30	17 41.12	-22 53.8	1.579	2.435	16.0	21.4	7 30	17 38.58	-26 33.8	1.447	2.305	17.1	21.0
272635	2005 <i>WB</i> ₇₆	6 23.9 208°14		0°7/23.9 17			383987	2008 <i>TY</i> ₁₃₉	6 23.9 202°62		5°2/23.8 17		
5 21	18 39.46	-24 39.0	2.169	3.025	12.1	21.9	5 21	18 36.37	-10 22.3	2.084	2.927	13.1	21.4
5 31	18 33.32	-24 53.1	2.085	3.019	9.0	21.7	5 31	18 30.89	-9 34.7	2.008	2.924	10.3	21.2
6 10	18 25.12	-25 7.0	2.026	3.013	5.5	21.5	6 10	18 23.58	-8 54.9	1.955	2.921	7.5	21.0
6 20	18 15.51	-25 18.6	1.992	3.006	1.7	21.2	6 20	18 15.07	-8 24.9	1.927	2.918	5.4	20.9
6 30	18 5.39	-25 26.5	1.988	2.999	2.5	21.3	6 30	18 6.19	-8 6.4	1.926	2.915	5.8	20.9
7 10	17 55.80	-25 30.1	2.011	2.991	6.3	21.5	7 10	17 57.83	-8 0.1	1.952	2.911	8.1	21.0
7 20	17 47.62	-25 30.2	2.060	2.982	9.9	21.7	7 20	17 50.78	-8 5.4	2.003	2.907	11.0	21.2
7 30	17 41.57	-25 28.1	2.133	2.973	13.0	21.9	7 30	17 45.66	-8 20.9	2.076	2.903	13.8	21.4
469957	2006 <i>BF</i> ₂₂₁	6 23.9 30°76		7°4/24.8 16			398914	2013 <i>CK</i> ₁₅₆	6 23.9 38°64		3°8/24.4 17		
5 21	18 41.75	-40 18.8	1.320	2.185	17.8	20.3	5 21	18 33.42	-11 27.4	2.241	3.088	12.1	21.0
5 31	18 36.07	-40 36.2	1.274	2.200	14.2	20.1	5 31	18 28.62	-11 21.2	2.169	3.090	9.4	20.9
6 10	18 27.06	-40 36.0	1.247	2.216	10.5	20.0	6 10	18 22.18	-11 23.6	2.119	3.092	6.5	20.7
6 20	18 16.03	-40 13.1	1.242	2.233	7.8	19.9	6 20	18 14.66	-11 34.8	2.095	3.094	4.2	20.5
6 30	18 4.79	-39 26.2	1.260	2.250	7.9	19.9	6 30	18 6.81	-11 54.7	2.098	3.097	4.3	20.5
7 10	17 55.11	-38 19.2	1.302	2.269	10.5	20.1	7 10	17 59.43	-12 22.3	2.129	3.099	6.8	20.7
7 20	17 48.24	-36 59.5	1.365	2.288	13.8	20.4	7 20	17 53.23	-12 56.1	2.185	3.101	9.7	20.9
7 30	17 44.84	-35 35.1	1.449	2.308	17.0	20.6	7 30	17 48.76	-13 34.5	2.263	3.104	12.3	21.1
313947	2004 <i>RO</i> ₁₇₇	6 23.9 218°51		1°8/23.9 18			224139	2005 <i>QV</i> ₄₁	6 23.9 315°91		5°4/24.1 17		
5 21	18 36.21	-30 20.8	3.061	3.906	9.2	21.9	5 21	18 35.01	-12 37.8	1.413	2.285	16.5	20.1
5 31	18 30.43	-30 25.8	2.971	3.897	7.0	21.7	5 31	18 30.79	-12 5.5	1.336	2.272	12.9	19.9
6 10	18 23.15	-30 27.0	2.906	3.888	4.4	21.6	6 10	18 23.96	-11 43.1	1.279	2.259	8.9	19.6
6 20	18 14.91	-30 22.7	2.869	3.878	2.2	21.4	6 20	18 15.27	-11 33.0	1.244	2.247	5.8	19.4
6 30	18 6.35	-30 12.4	2.862	3.868	2.5	21.4	6 30	18 5.85	-11 36.3	1.234	2.235	6.2	19.4
7 10	17 58.18	-29 56.1	2.884	3.857	5.0	21.6	7 10	17 57.06	-11 53.1	1.247	2.223	9.8	19.6
7 20	17 51.05	-29 35.1	2.933	3.847	7.6	21.7	7 20	17 50.07	-12 21.5	1.282	2.212	14.0	19.8
7 30	17 45.48	-29 11.1	3.007	3.835	9.9	21.9	7 30	17 45.78	-12 59.3	1.337	2.202	17.8	20.0
248068	2004 <i>PT</i> ₂₉	6 23.9 312°77		9°2/24.3 18			156485	2002 <i>CE</i> ₆₆	6 23.9 102°29		0°4/23.9 17		
5 21	18 31.98	+ 1 40.4	2.093	2.899	14.3	19.9	5 21	18 38.87	-24 3.2	1.775	2.641	13.9	20.5
5 31	18 27.72	+ 2 29.7	2.013	2.885	12.3	19.8	5 31	18 33.08	-24 9.1	1.710	2.649	10.3	20.3
6 10	18 21.73	+ 3 2.8	1.953	2.872	10.5	19.6	6 10	18 25.03	-24 14.9	1.668	2.657	6.2	20.1
6 20	18 14.53	+ 3 15.9	1.916	2.859	9.3	19.5	6 20	18 15.50	-24 18.7	1.651	2.665	1.8	19.8
6 30	18 6.89	+ 3 6.9	1.904	2.846	9.4	19.5	6 30	18 5.59	-24 19.5	1.662	2.673	2.7	19.9
7 10	17 59.65	+ 2 36.1	1.915	2.833	10.7	19.5	7 10	17 56.47	-24 17.1	1.698	2.681	7.0	20.2
7 20	17 53.56	+ 1 45.9	1.949	2.821	12.8	19.7	7 20	17 49.09	-24 12.6	1.760	2.689	10.9	20.5
7 30	17 49.26	+ 0 40.0	2.003	2.809	15.0	19.8	7 30	17 44.14	-24 7.4	1.843	2.696	14.2	20.7
507702	2013 <i>TY</i> ₈₂	6 23.9 280°36		2°7/23.9 17			50099	2000 <i>AM</i> ₉₈	6 23.9 169°09		0°4/24.0 18		
5 21	18 39.91	-29 40.6	1.613	2.483	14.9	21.9	5 21	18 39.75	-20 37.8	1.823	2.684	13.8	18.9
5 31	18 34.45	-29 52.9	1.530	2.469	11.3	21.7	5 31	18 33.78	-21 3.6	1.750	2.687	10.3	18.7
6 10	18 26.17	-30 0.3	1.469	2.455	7.2	21.4	6 10	18 25.51	-21 33.4	1.701	2.689	6.2	18.5
6 20	18 15.88	-29 59.4	1.431	2.441	3.3	21.1	6 20	18 15.66	-22 5.0	1.677	2.691	1.9	18.2
6 30	18 4.84	-29 48.0	1.419	2.428	4.0	21.2	6 30	18 5.30	-22 36.0	1.681	2.693	2.7	18.3
7 10	17 54.51	-29 26.3	1.433	2.414	8.3	21.4	7 10	17 55.57	-23 4.7	1.712	2.694	7.0	18.5
7 20	17 46.15	-28 57.0	1.471	2.400	12.6	21.6	7 20	17 47.49	-23 30.6	1.768	2.694	11.0	18.8
7 30	17 40.70	-28 24.0	1.529	2.386	16.4	21.8	7 30	17 41.82	-23 54.0	1.846	2.695	14.4	19.0
361494	2007 <i>EU</i> ₁₈	6 23.9 263°26		4°4/24.2 18			431667	2008 <i>CB</i> ₉₇	6 23.9 82°92		0°5/24.0 1		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
340354	2006 <i>DV</i> ₉₀		6 23.9 344°36	1°9/24.1	17		256960	2008 <i>EL</i> ₈₂		6 23.9 69°80	6°9/24.5	17	
5 21	18 35.78	-18 40.7	1.650	2.521	14.5	21.0	5 21	18 42.83	-44 13.6	2.188	3.011	13.2	20.2
5 31	18 31.00	-18 36.5	1.578	2.518	10.9	20.8	5 31	18 36.01	-44 37.8	2.126	3.020	10.8	20.0
6 10	18 23.89	-18 37.1	1.527	2.516	6.8	20.5	6 10	18 26.76	-44 47.6	2.086	3.029	8.6	19.9
6 20	18 15.22	-18 41.9	1.501	2.513	2.7	20.3	6 20	18 16.00	-44 38.8	2.070	3.038	7.1	19.8
6 30	18 6.02	-18 50.4	1.501	2.511	3.4	20.3	6 30	18 4.97	-44 9.8	2.080	3.047	7.2	19.8
7 10	17 57.49	-19 1.9	1.526	2.510	7.6	20.6	7 10	17 54.95	-43 22.1	2.116	3.056	8.7	19.9
7 20	17 50.64	-19 15.9	1.576	2.508	11.7	20.8	7 20	17 46.93	-42 20.0	2.177	3.065	11.0	20.1
7 30	17 46.22	-19 32.3	1.646	2.507	15.2	21.0	7 30	17 41.56	-41 9.1	2.260	3.074	13.2	20.3
358858	2008 <i>FZ</i> ₈₈		6 23.9 183°55	3°6/24.2	18		390181	2012 <i>WR</i> ₁₁		6 23.9 131°35	0°1/23.9	17	
5 21	18 33.90	-10 25.3	2.971	3.801	9.9	22.6	5 21	18 37.01	-22 48.0	2.325	3.181	11.4	21.7
5 31	18 28.60	-10 7.9	2.891	3.801	7.7	22.5	5 31	18 31.26	-23 1.1	2.256	3.190	8.4	21.6
6 10	18 22.02	-9 56.8	2.835	3.801	5.5	22.3	6 10	18 23.76	-23 15.1	2.212	3.199	5.1	21.4
6 20	18 14.62	-9 52.9	2.807	3.800	3.8	22.2	6 20	18 15.15	-23 28.5	2.194	3.208	1.5	21.1
6 30	18 6.95	-9 56.4	2.808	3.799	4.0	22.2	6 30	18 6.22	-23 40.1	2.205	3.217	2.2	21.2
7 10	17 59.64	-10 7.1	2.837	3.797	5.8	22.3	7 10	17 57.85	-23 49.5	2.244	3.225	5.7	21.5
7 20	17 53.23	-10 24.2	2.893	3.795	8.1	22.5	7 20	17 50.79	-23 56.7	2.310	3.233	8.9	21.7
7 30	17 48.17	-10 46.8	2.973	3.792	10.2	22.6	7 30	17 45.61	-24 2.6	2.399	3.240	11.7	21.9
100877	1998 <i>HN</i> ₈₆		6 23.9 48°49	3°3/23.9	18		200276	1999 <i>XF</i> ₂₁₆		6 23.9 210°55	0°7/24.0	18	
5 21	18 34.80	-15 34.5	1.953	2.813	13.1	19.1	5 21	18 38.64	-26 19.0	2.153	3.010	12.1	20.3
5 31	18 29.76	-15 3.2	1.891	2.823	9.9	18.9	5 31	18 32.68	-26 8.8	2.072	3.006	9.0	20.1
6 10	18 22.89	-14 37.1	1.852	2.833	6.5	18.7	6 10	18 24.72	-25 55.7	2.015	3.002	5.5	19.9
6 20	18 14.87	-14 17.4	1.838	2.844	3.7	18.5	6 20	18 15.44	-25 38.5	1.985	2.998	1.7	19.6
6 30	18 6.59	-14 4.7	1.851	2.854	4.1	18.6	6 30	18 5.77	-25 16.9	1.982	2.993	2.5	19.6
7 10	17 58.98	-13 59.4	1.890	2.865	7.1	18.8	7 10	17 56.71	-24 51.9	2.008	2.988	6.3	19.9
7 20	17 52.78	-14 1.1	1.955	2.876	10.4	19.0	7 20	17 49.11	-24 25.1	2.059	2.983	9.8	20.1
7 30	17 48.58	-14 9.1	2.041	2.888	13.3	19.2	7 30	17 43.63	-23 58.6	2.134	2.978	12.9	20.3
98648	2000 <i>WG</i> ₁₃₅		6 23.9 188°96	4°6/23.4	18		62549	2000 <i>SZ</i> ₂₆₂		6 23.9 301°38	9°1/21.8	18	
5 21	18 41.84	-35 11.2	2.268	3.111	12.1	20.7	5 21	18 42.37	-40 37.4	1.602	2.453	15.9	19.2
5 31	18 35.26	-36 3.0	2.192	3.110	9.4	20.5	5 31	18 37.17	-42 17.1	1.519	2.433	13.1	19.0
6 10	18 26.39	-36 48.5	2.140	3.109	6.7	20.3	6 10	18 28.38	-43 48.6	1.457	2.412	10.6	18.8
6 20	18 15.94	-37 23.2	2.113	3.107	4.7	20.2	6 20	18 16.71	-45 2.6	1.419	2.391	9.2	18.7
6 30	18 4.92	-37 43.8	2.115	3.105	5.2	20.2	6 30	18 3.63	-45 50.4	1.404	2.371	9.9	18.7
7 10	17 54.47	-37 49.7	2.144	3.102	7.6	20.4	7 10	17 51.06	-46 8.9	1.412	2.350	12.4	18.7
7 20	17 45.61	-37 42.5	2.199	3.099	10.4	20.5	7 20	17 40.82	-46 0.3	1.442	2.330	15.5	18.9
7 30	17 39.10	-37 25.5	2.276	3.095	13.0	20.7	7 30	17 34.27	-45 30.9	1.491	2.311	18.6	19.0
321268	2009 <i>DL</i> ₁₂₂		6 23.9 355°04	5°7/24.5	17		269093	2007 <i>HJ</i> ₅₃		6 23.9 44°00	3°8/24.2	17	
5 21	18 31.67	-12 57.3	1.012	1.909	19.4	19.9	5 21	18 36.42	-15 0.5	1.435	2.308	16.2	19.9
5 31	18 28.94	-12 35.9	0.953	1.903	15.1	19.6	5 31	18 31.47	-14 42.5	1.383	2.322	12.3	19.7
6 10	18 23.11	-12 29.1	0.910	1.898	10.3	19.3	6 10	18 24.13	-14 33.3	1.352	2.337	8.0	19.5
6 20	18 15.06	-12 39.0	0.888	1.894	6.3	19.1	6 20	18 15.27	-14 33.3	1.345	2.352	4.3	19.3
6 30	18 6.26	-13 5.8	0.887	1.892	6.6	19.1	6 30	18 6.09	-14 42.4	1.362	2.368	4.7	19.3
7 10	17 58.38	-13 47.3	0.906	1.892	10.9	19.4	7 10	17 57.84	-14 59.5	1.404	2.384	8.5	19.6
7 20	17 52.82	-14 39.5	0.945	1.893	15.8	19.6	7 20	17 51.50	-15 23.1	1.469	2.400	12.4	19.9
7 30	17 50.54	-15 38.1	1.002	1.896	20.1	19.9	7 30	17 47.74	-15 51.7	1.554	2.417	15.9	20.1
390991	2005 <i>SG</i> ₈₅		6 23.9 307°00	4°6/24.1	18		131190	2001 <i>DH</i> ₆		6 23.9 64°74	7°2/23.9	17	
5 21	18 33.52	-10 59.2	2.129	2.977	12.6	21.0	5 21	18 42.84	-40 39.3	1.758	2.603	15.0	19.1
5 31	18 28.81	-10 30.2	2.051	2.972	9.9	20.8	5 31	18 36.52	-41 28.5	1.702	2.614	12.1	19.0
6 10	18 22.36	-10 9.4	1.996	2.967	7.0	20.6	6 10	18 27.31	-42 4.6	1.666	2.624	9.2	18.8
6 20	18 14.75	-9 58.1	1.966	2.961	4.9	20.4	6 20	18 16.22	-42 21.8	1.654	2.634	7.4	18.7
6 30	18 6.75	-9 57.2	1.963	2.956	5.1	20.4	6 30	18 4.67	-42 16.8	1.667	2.645	7.6	18.8
7 10	17 59.23	-10 6.5	1.986	2.951	7.5	20.6	7 10	17 54.19	-41 50.7	1.705	2.655	9.8	18.9
7 20	17 52.92	-10 25.1	2.034	2.947	10.5	20.8	7 20	17 46.00	-41 7.8	1.766	2.666	12.5	19.1
7 30	17 48.44	-10 51.5	2.104	2.942	13.2	20.9	7 30	17 40.87	-40 14.2	1.848	2.677	15.2	19.3
479842	2014 <i>GM</i> ₁₁		6 23.9 70°53	6°7/23.8	16		396508	2014 <i>GH</i> ₆		6 23.9 40°87	3°7/24.1	16	
5 21	18 41.42	-41 23.9	2.062	2.898	13.4	21.0	5 21	18 34.23	-13 54.1	2.031	2.887	12.8	20.7
5 31	18 35.16	-42 8.1	1.999	2.904	10.9	20.8	5 31	18 29.34	-13 28.5	1.963	2.892	9.8	20.5
6 10	18 26.37	-42 40.1	1.958	2.911	8.4	20.7	6 10	18 22.67	-13 9.4	1.918	2.897	6.6	20.3
6 20	18 15.92	-42 55.3	1.941	2.917	6.8	20.6	6 20	18 14.85	-12 57.8	1.899	2.902	4.0	20.2
6 30	18 5.04	-42 50.7	1.951	2.924	7.1	20.6	6 30	18 6.72	-12 54.3	1.906	2.907	4.3	20.2
7 10	17 55.03	-42 27.1	1.986	2.931	8.9	20.7	7 10	17 59.16	-12 58.7	1.939	2.912	7.1	20.4
7 20	17 46.98	-41 47.9	2.045	2.937	11.4	20.9	7 20	17 52.94	-13 10.3	1.998	2.918	10.3	20.6
7 30	17 41.61	-40 58.2	2.125	2.944	13.8	21.1	7 30	17 48.63	-13 28.1	2.079	2.923	13.1	20.8
320438	2007 <i>VY</i> ₁₄₁		6 23.9 134°22	2°9/24.0	17		258673	2002 <i>EZ</i> ₁₂₆		6 23.9 194°08	6°1/24.5	18	
5 21	18 39.84	-17 17.1	1.571	2.436	15.4	21.3	5 21	18 33.01	-1 52.8	2.871	3.673	10.9	21.3
5 31	18 33.96	-16 54.1	1.506	2.443	11.6	21.0	5 31	18 28.00	-1 24.0	2.793	3.671	9.1	21.2
6 10	18 25.63	-16 36.2	1.463	2.449	7.4	20.8	6 10	18 21.70	-1 6.2	2.737	3.668	7.3	21.0
6 20	18 15.71	-16 23.9	1.445	2.454	3.5	20.6	6 20	18 14.56	-1 1.1	2.708	3.665	6.2	21.0
6 30	18 5.36	-16 17.5	1.452	2.460	4.1	20.6	6 30	18 7.14	-1 9.5	2.705	3.662	6.3	21.0
7 10	17 55.86	-16 17.1	1.486	2.465	8.2	20.9	7 10	18 0.07	-1 30.9	2.730	3.658	7.5	21.0
7 20	17 48.22	-16 22.4	1.543	2.470	12.3	21.1	7 20	17 53.89	-2 3.9	2.780	3.654	9.3	21.2
7 30	17 43.19	-16 33.2	1.621	2.474	15.8	21.4	7 30	17 49.05	-2 46.4	2.852	3.650	11.2	21.3
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
5883	Josephblack		6 23.9 232°40	5°5/22.9	18		259835	2004 <i>CL</i> ₃₁		6 23.9 37°17	2°0/24.1	17	
5 21	18 39.95	-40 25.4	2.757	3.583	10.7	17.6	5 21	18 37.29	-18 58.4	1.274	2.158	17.1	20.5
5 31	18 33.74	-41 22.7	2.674	3.574	8.7	17.5	5 31	18 32.51	-18 55.1	1.220	2.167	12.8	20.3
6 10	18 25.46	-42 12.1	2.614	3.564	6.7	17.4	6 10	18 24.95	-18 57.7	1.187	2.177	7.9	20.0
6 20	18 15.72	-42 49.6	2.581	3.553	5.6	17.3	6 20	18 15.59	-19 5.2	1.176	2.188	3.0	19.8
6 30	18 5.38	-43 11.9	2.575	3.543	5.9	17.3	6 30	18 5.78	-19 16.7	1.189	2.200	3.8	19.8
7 10	17 55.45	-43 18.4	2.597	3.532	7.5	17.4	7 10	17 57.00	-19 31.1	1.226	2.212	8.6	20.2
7 20	17 46.86	-43 10.3	2.643	3.521	9.6	17.5	7 20	17 50.39	-19 47.7	1.285	2.224	13.2	20.4
7 30	17 40.33	-42 50.8	2.712	3.509	11.7	17.6	7 30	17 46.73	-20 6.3	1.364	2.237	17.1	20.7
240470	2004 <i>BF</i> ₃₄		6 23.9 314°06	5°5/25.3	16		13720	1998 <i>QU</i> ₅₀		6 23.9 3°61	9°7/23.9	18	
5 21	18 35.21	- 6 53.1	1.836	2.678	14.6	19.9	5 21	18 45.56	-52 15.5	2.260	3.048	13.9	18.1
5 31	18 30.41	- 7 8.7	1.755	2.669	11.6	19.7	5 31	18 38.61	-53 9.0	2.196	3.048	12.2	18.0
6 10	18 23.53	- 7 40.1	1.694	2.660	8.5	19.5	6 10	18 28.64	-53 44.8	2.152	3.048	10.7	17.9
6 20	18 15.17	- 8 28.0	1.658	2.651	6.0	19.3	6 20	18 16.66	-53 56.8	2.130	3.048	9.8	17.8
6 30	18 6.22	- 9 31.0	1.649	2.643	5.9	19.3	6 30	18 4.15	-53 41.8	2.133	3.049	9.9	17.8
7 10	17 57.73	-10 46.2	1.665	2.634	8.4	19.4	7 10	17 52.72	-53 0.7	2.158	3.049	11.0	17.9
7 20	17 50.60	-12 9.4	1.707	2.626	11.7	19.6	7 20	17 43.65	-51 57.8	2.207	3.050	12.6	18.0
7 30	17 45.61	-13 36.6	1.771	2.619	14.9	19.8	7 30	17 37.75	-50 39.9	2.275	3.051	14.3	18.1
106100	2000 <i>TX</i> ₉		6 23.9 278°64	4°6/23.7	18		142391	2002 <i>SY</i> ₁₃		6 23.9 15°86	5°1/23.8	17	
5 21	18 38.53	-35 41.7	2.191	3.040	12.3	19.9	5 21	18 40.94	-33 21.1	1.408	2.281	16.5	19.8
5 31	18 32.85	-36 18.3	2.115	3.037	9.6	19.7	5 31	18 35.54	-34 3.2	1.345	2.282	12.7	19.6
6 10	18 24.96	-36 47.6	2.063	3.034	6.8	19.5	6 10	18 26.98	-34 37.7	1.302	2.283	8.7	19.4
6 20	18 15.56	-37 5.8	2.036	3.031	4.8	19.4	6 20	18 16.22	-34 58.8	1.282	2.285	5.5	19.2
6 30	18 5.68	-37 10.4	2.036	3.028	5.1	19.4	6 30	18 4.79	-35 2.4	1.287	2.287	6.1	19.2
7 10	17 56.41	-37 1.2	2.063	3.025	7.5	19.5	7 10	17 54.40	-34 48.7	1.315	2.289	9.6	19.4
7 20	17 48.73	-36 40.2	2.114	3.022	10.4	19.7	7 20	17 46.41	-34 21.3	1.366	2.291	13.6	19.7
7 30	17 43.36	-36 11.0	2.188	3.019	13.0	19.9	7 30	17 41.75	-33 45.4	1.436	2.294	17.2	19.9
282976	2007 <i>TP</i> ₂₇		6 23.9 344°53	2°0/24.0	18		31296	1998 <i>FY</i> ₇₃		6 23.9 272°84	5°0/23.6	18	
5 21	18 34.19	-19 15.1	1.517	2.396	15.1	19.9	5 21	18 39.05	-36 55.2	2.226	3.071	12.2	17.8
5 31	18 30.04	-19 1.2	1.444	2.389	11.4	19.7	5 31	18 33.32	-37 32.6	2.143	3.061	9.6	17.6
6 10	18 23.44	-18 51.3	1.392	2.382	7.1	19.4	6 10	18 25.31	-38 2.3	2.082	3.050	7.0	17.4
6 20	18 15.15	-18 45.4	1.364	2.376	2.8	19.1	6 20	18 15.70	-38 20.1	2.048	3.039	5.1	17.3
6 30	18 6.30	-18 43.4	1.361	2.371	3.6	19.2	6 30	18 5.52	-38 23.2	2.040	3.028	5.5	17.3
7 10	17 58.13	-18 45.2	1.382	2.367	8.0	19.4	7 10	17 55.91	-38 11.5	2.058	3.017	7.8	17.4
7 20	17 51.72	-18 50.9	1.426	2.363	12.3	19.7	7 20	17 47.87	-37 46.9	2.102	3.006	10.6	17.6
7 30	17 47.88	-19 0.3	1.491	2.360	16.1	19.9	7 30	17 42.18	-37 13.1	2.167	2.995	13.3	17.7
102506	1999 <i>TU</i> ₂₈₉		6 23.9 338°45	2°3/24.2	18		258660	2002 <i>EP</i> ₉₅		6 23.9 104°73	1°0/24.1	16	
5 21	18 31.57	-18 39.1	1.041	1.944	18.5	18.9	5 21	18 35.15	-19 52.0	2.388	3.244	11.1	21.1
5 31	18 29.11	-18 39.3	0.970	1.927	14.1	18.6	5 31	18 29.83	-19 52.8	2.320	3.253	8.3	21.0
6 10	18 23.40	-18 47.8	0.916	1.911	8.9	18.2	6 10	18 22.90	-19 56.0	2.277	3.263	5.0	20.8
6 20	18 15.25	-19 4.3	0.883	1.897	3.4	17.9	6 20	18 14.95	-20 1.1	2.260	3.273	1.8	20.6
6 30	18 6.09	-19 27.5	0.872	1.884	4.3	17.9	6 30	18 6.73	-20 7.2	2.272	3.282	2.3	20.6
7 10	17 57.69	-19 55.5	0.881	1.873	10.1	18.1	7 10	17 59.04	-20 14.3	2.311	3.291	5.6	20.9
7 20	17 51.62	-20 26.6	0.910	1.863	15.6	18.4	7 20	17 52.56	-20 22.1	2.377	3.301	8.7	21.1
7 30	17 49.02	-20 59.3	0.956	1.855	20.4	18.7	7 30	17 47.83	-20 30.8	2.467	3.310	11.4	21.3
329773	2004 <i>JM</i> ₃₈		6 23.9 103°60	9°4/20.7	17		165138	2000 <i>NL</i> ₅		6 23.9 307°76	4°5/23.8	18	
5 21	18 53.13	-30 31.6	1.044	1.920	20.6	20.3	5 21	18 38.97	-31 14.8	1.219	2.104	17.6	19.2
5 31	18 46.38	-34 1.5	0.990	1.927	16.1	20.1	5 31	18 34.95	-31 43.2	1.127	2.074	13.7	18.8
6 10	18 34.64	-37 36.3	0.959	1.935	11.7	19.9	6 10	18 27.21	-32 6.4	1.055	2.043	9.2	18.5
6 20	18 18.71	-40 54.4	0.951	1.943	9.4	19.8	6 20	18 16.46	-32 18.4	1.004	2.013	5.1	18.2
6 30	18 0.71	-43 35.2	0.969	1.950	11.1	19.9	6 30	18 4.23	-32 13.9	0.976	1.982	5.9	18.1
7 10	17 43.61	-45 28.3	1.011	1.958	15.1	20.1	7 10	17 52.53	-31 51.6	0.970	1.953	10.9	18.3
7 20	17 30.12	-46 36.4	1.072	1.965	19.3	20.4	7 20	17 43.29	-31 14.8	0.985	1.924	16.2	18.5
7 30	17 21.98	-47 10.3	1.150	1.971	22.9	20.7	7 30	17 37.92	-30 29.7	1.017	1.895	21.1	18.7
34658	2000 <i>WS</i> ₁₅₈		6 23.9 32°88	3°3/24.7	18		97277	1999 <i>XJ</i> ₁₄₄		6 23.9 255°02	3°2/23.4	18	
5 21	18 36.35	-12 58.3	1.392	2.263	16.7	17.4	5 21	18 39.93	-29 49.8	2.118	2.973	12.4	18.6
5 31	18 31.61	-13 35.1	1.337	2.275	12.7	17.2	5 31	18 34.08	-30 45.4	2.028	2.958	9.4	18.4
6 10	18 24.35	-14 25.9	1.303	2.287	8.2	16.9	6 10	18 25.87	-31 39.8	1.961	2.943	6.2	18.2
6 20	18 15.40	-15 28.5	1.292	2.301	4.1	16.7	6 20	18 15.91	-32 28.5	1.921	2.927	3.5	18.0
6 30	18 5.99	-16 39.1	1.306	2.314	4.2	16.8	6 30	18 5.19	-33 7.7	1.908	2.910	4.2	18.0
7 10	17 57.42	-17 53.3	1.345	2.329	8.3	17.1	7 10	17 54.85	-33 35.2	1.924	2.894	7.4	18.2
7 20	17 50.78	-19 6.9	1.408	2.344	12.5	17.3	7 20	17 45.96	-33 51.4	1.964	2.877	10.8	18.3
7 30	17 46.83	-20 17.2	1.491	2.360	16.1	17.6	7 30	17 39.39	-33 58.3	2.027	2.859	13.9	18.5
66311	1999 <i>JE</i> ₄₂		6 23.9 356°87	2°8/23.7	18		30517	2001 <i>LJ</i> ₁₅		6 23.9 249°88	1°2/23.9	18	
5 21	18 34.87	-26 54.5	1.247	2.138	16.9	18.8	5 21	18 33.43	-20 13.3	2.786	3.638	9.8	18.5
5 31	18 31.19	-27 37.3	1.183	2.134	12.7	18.6	5 31	18 28.44	-19 55.3	2.700	3.631	7.3	18.3
6 10	18 24.44	-28 20.1	1.139	2.131	7.9	18.3	6 10	18 22.04	-19 38.3	2.639	3.624	4.5	18.1
6 20	18 15.50	-28 58.0	1.117	2.129	3.4	18.0	6 20	18 14.71	-19 22.4	2.605	3.617	1.7	17.9
6 30	18 5.80	-29 26.7	1.118	2.128	4.4	18.1	6 30	18 7.09	-19 7.7	2.600	3.610	2.2	17.9
7 10	17 56.99	-29 44.4	1.143	2.128	9.2	18.3	7 10	17 59.85	-18 54.7	2.624	3.602	5.1	18.1
7 20	17 50.46	-29 51.8	1.189	2.129	13.9	18.6	7 20	17 53.61	-18 43.9	2.674	3.595	8.0	18.3
7 30	17 47.17	-29 51.6	1.254	2.132	17.9	18.9	7 30	17 48.85	-18 35.6	2.749	3.587	10.5	18.4
367077	2006 <i>PY</i> ₂₈		6 23.9 320°63	5°5/25.9	18		234188	200					