

EPHEMERIDES

5 20.9

5 21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
364605	2007 <i>RX</i> ₂₄₉		5 20.9 204°61	2°5/22.2	17		437281	2013 <i>AF</i> ₂₅		5 20.9 257°77	1°0/20.4	16	
4 11	16 22.47	-27 46.6	1.660	2.451	17.5	21.4	4 11	16 17.58	-18 29.4	2.266	3.062	13.3	21.9
4 21	16 18.67	-27 46.9	1.570	2.449	14.3	21.1	4 21	16 13.80	-18 12.9	2.162	3.049	10.6	21.7
5 1	16 11.76	-27 34.6	1.500	2.446	10.4	20.9	5 1	16 7.88	-17 51.8	2.081	3.036	7.4	21.4
5 11	16 2.44	-27 8.2	1.453	2.443	6.1	20.6	5 11	16 0.31	-17 27.2	2.026	3.022	3.8	21.2
5 21	15 51.76	-26 28.1	1.432	2.440	2.6	20.4	5 21	15 51.80	-17 0.9	1.998	3.009	1.1	21.0
5 31	15 41.10	-25 37.4	1.436	2.437	5.1	20.5	5 31	15 43.19	-16 35.6	1.998	2.995	4.3	21.2
6 10	15 31.79	-24 42.1	1.467	2.433	9.5	20.8	6 10	15 35.40	-16 14.1	2.025	2.981	8.0	21.4
6 20	15 24.85	-23 48.6	1.520	2.428	13.6	21.0	6 20	15 29.12	-15 58.9	2.077	2.967	11.3	21.5
523518	2017 <i>OS</i> ₂₉		5 20.9 68°40	4°9/23.9	17		161410	2003 <i>UP</i> ₂₃₇		5 20.9 279°63	1°0/21.5	18	
4 11	16 22.70	-34 43.5	1.618	2.392	18.6	21.0	4 11	16 17.79	-24 35.9	1.994	2.788	14.9	20.0
4 21	16 18.76	-34 40.7	1.549	2.410	15.4	20.8	4 21	16 14.35	-24 25.8	1.897	2.780	12.0	19.7
5 1	16 11.64	-34 19.1	1.499	2.428	11.7	20.6	5 1	16 8.45	-24 6.4	1.821	2.772	8.5	19.5
5 11	16 2.23	-33 36.3	1.470	2.446	7.8	20.4	5 11	16 0.66	-23 37.8	1.770	2.764	4.6	19.2
5 21	15 51.77	-32 33.4	1.466	2.465	5.1	20.3	5 21	15 51.79	-23 1.3	1.745	2.756	1.0	19.0
5 31	15 41.69	-31 14.7	1.489	2.483	5.9	20.4	5 31	15 42.90	-22 19.7	1.748	2.749	4.2	19.2
6 10	15 33.30	-29 48.3	1.537	2.501	9.3	20.6	6 10	15 35.02	-21 37.4	1.776	2.741	8.2	19.4
6 20	15 27.43	-28 22.5	1.608	2.519	12.8	20.9	6 20	15 28.94	-20 58.6	1.830	2.733	11.9	19.6
140657	2001 <i>UC</i> ₃₉		5 20.9 229°33	0°2/21.1	17		209383	2004 <i>EU</i> ₄₃		5 20.9 305°32	3°1/19.4	18	
4 11	16 17.96	-21 45.9	2.513	3.298	12.4	21.4	4 11	16 15.74	-13 30.3	2.004	2.815	14.2	20.1
4 21	16 13.87	-21 41.0	2.411	3.290	9.9	21.2	4 21	16 12.55	-13 0.6	1.910	2.804	11.4	19.8
5 1	16 7.79	-21 30.6	2.331	3.281	7.0	21.0	5 1	16 7.10	-12 28.8	1.837	2.793	8.1	19.6
5 11	16 0.21	-21 15.0	2.277	3.273	3.6	20.8	5 11	15 59.94	-11 57.6	1.789	2.783	4.7	19.4
5 21	15 51.78	-20 55.1	2.251	3.264	0.2	20.5	5 21	15 51.80	-11 30.1	1.768	2.772	3.2	19.3
5 31	15 43.30	-20 33.0	2.255	3.254	3.6	20.8	5 31	15 43.60	-11 9.5	1.773	2.762	5.8	19.4
6 10	15 35.58	-20 11.1	2.285	3.245	7.0	21.0	6 10	15 36.28	-10 58.5	1.804	2.752	9.3	19.6
6 20	15 29.27	-19 52.1	2.342	3.235	10.1	21.1	6 20	15 30.59	-10 58.7	1.858	2.743	12.7	19.8
175985	2000 <i>QE</i> ₅₂		5 20.9 252°98	3°7/23.2	18		371655	2007 <i>BX</i> ₉₉		5 20.9 153°54	1°3/21.6	17	
4 11	16 20.17	-32 45.8	2.722	3.468	12.5	21.1	4 11	16 22.32	-24 11.9	1.989	2.775	15.2	21.9
4 21	16 15.79	-33 4.6	2.605	3.450	10.4	20.9	4 21	16 17.82	-24 17.5	1.903	2.781	12.2	21.7
5 1	16 9.25	-33 13.6	2.510	3.430	8.0	20.7	5 1	16 10.78	-24 15.3	1.838	2.786	8.7	21.4
5 11	16 1.02	-33 10.9	2.439	3.411	5.5	20.5	5 11	16 1.81	-24 4.8	1.798	2.791	4.7	21.2
5 21	15 51.78	-32 55.6	2.396	3.391	3.8	20.4	5 21	15 51.80	-23 46.4	1.785	2.795	1.3	21.0
5 31	15 42.38	-32 28.3	2.381	3.370	4.6	20.4	5 31	15 41.85	-23 22.3	1.799	2.800	4.2	21.2
6 10	15 33.73	-31 51.7	2.395	3.349	7.0	20.5	6 10	15 33.03	-22 56.1	1.841	2.803	8.2	21.4
6 20	15 26.57	-31 9.8	2.434	3.328	9.8	20.7	6 20	15 26.14	-22 31.7	1.907	2.806	11.7	21.7
30667	1177 <i>T</i> ₂		5 20.9 162°02	3°4/18.8	18		385056	2012 <i>UV</i> ₄₄		5 20.9 236°37	0°1/20.9	17	
4 11	16 20.08	-12 20.0	2.401	3.192	12.8	19.7	4 11	16 18.67	-20 37.0	2.192	2.985	13.8	21.2
4 21	16 15.31	-11 28.6	2.318	3.200	10.2	19.5	4 21	16 14.73	-20 32.0	2.095	2.979	11.0	21.0
5 1	16 8.61	-10 35.2	2.258	3.206	7.2	19.3	5 1	16 8.55	-20 21.6	2.019	2.972	7.7	20.7
5 11	16 0.54	-9 43.1	2.224	3.213	4.4	19.2	5 11	16 0.66	-20 6.5	1.969	2.965	4.0	20.5
5 21	15 51.78	-8 55.5	2.219	3.218	3.5	19.1	5 21	15 51.81	-19 47.6	1.946	2.958	0.1	20.1
5 31	15 43.13	-8 15.9	2.243	3.222	5.6	19.2	5 31	15 42.90	-19 27.2	1.951	2.951	4.0	20.5
6 10	15 35.34	-7 47.0	2.295	3.226	8.5	19.4	6 10	15 34.87	-19 8.2	1.983	2.943	7.8	20.7
6 20	15 29.02	-7 30.2	2.371	3.229	11.3	19.6	6 20	15 28.47	-18 53.3	2.040	2.935	11.3	20.9
287858	2003 <i>SW</i> ₂₅₆		5 20.9 157°51	1°9/21.8	17		4844	Matsuyama		5 20.9 355°41	0°8/21.4	18	
4 11	16 22.72	-25 33.1	1.688	2.482	17.2	21.0	4 11	16 10.30	-25 9.1	1.173	2.016	20.3	15.4
4 21	16 18.68	-25 38.2	1.604	2.486	13.9	20.8	4 21	16 9.94	-24 43.1	1.097	2.009	16.3	15.1
5 1	16 11.67	-25 33.2	1.540	2.489	9.9	20.6	5 1	16 6.18	-24 0.5	1.039	2.004	11.6	14.8
5 11	16 2.36	-25 17.2	1.499	2.492	5.6	20.3	5 11	15 59.74	-23 2.4	1.002	2.000	6.2	14.5
5 21	15 51.79	-24 50.6	1.484	2.494	1.9	20.1	5 21	15 51.80	-21 52.6	0.986	1.998	0.9	14.1
5 31	15 41.28	-24 16.0	1.496	2.496	4.8	20.3	5 31	15 43.92	-20 38.2	0.993	1.997	5.7	14.4
6 10	15 32.11	-23 38.3	1.533	2.498	9.2	20.5	6 10	15 37.62	-19 27.9	1.022	1.998	11.3	14.7
6 20	15 25.22	-23 2.9	1.594	2.500	13.2	20.8	6 20	15 33.93	-18 29.3	1.072	2.001	16.2	15.0
89942	2002 <i>FA</i> ₂₃		5 20.9 296°68	7°8/24.1	18		382963	2004 <i>XS</i> ₄₄		5 20.9 305°51	2°3/22.3	17	R
4 11	16 22.99	-40 44.1	2.366	3.085	14.9	19.4	4 11	16 17.05	-29 5.0	1.655	2.453	17.3	19.8
4 21	16 19.02	-41 54.4	2.250	3.060	13.0	19.3	4 21	16 14.73	-28 41.5	1.538	2.421	14.3	19.5
5 1	16 12.15	-42 53.4	2.153	3.035	11.0	19.1	5 1	16 9.34	-28 0.6	1.441	2.389	10.5	19.2
5 11	16 2.80	-43 36.3	2.080	3.010	9.0	18.9	5 11	16 1.40	-27 0.8	1.365	2.357	6.2	18.8
5 21	15 51.79	-43 58.6	2.031	2.985	7.9	18.8	5 21	15 51.81	-25 42.7	1.315	2.325	2.4	18.5
5 31	15 40.30	-43 58.2	2.007	2.960	8.2	18.7	5 31	15 41.90	-24 10.7	1.291	2.292	5.2	18.6
6 10	15 29.69	-43 36.9	2.009	2.934	9.9	18.8	6 10	15 33.09	-22 32.8	1.292	2.261	10.2	18.8
6 20	15 21.07	-42 59.5	2.034	2.909	12.2	18.9	6 20	15 26.53	-20 58.2	1.315	2.229	14.9	19.0
463713	2014 <i>QO</i> ₁₇₆		5 20.9 189°67	1°5/21.7	17		9392	Cavaillon		5 21.0 229°49	3°9/19.0	18	
4 11	16 24.49	-24 55.9	1.927	2.709	15.8	22.7	4 21	16 15.81	-11 30.8	1.799	2.690	12.1	18.4
4 21	16 19.74	-24 59.0	1.834	2.709	12.7	22.5	5 1	16 9.43	-10 48.4	1.729	2.682	8.7	18.1
5 1	16 12.24	-24 53.3	1.761	2.707	9.1	22.3	5 11	16 1.16	-10 7.4	1.683	2.673	5.3	17.9
5 11	16 2.62	-24 38.0	1.713	2.705	5.0	22.1	5 21	15 51.82	-9 31.8	1.663	2.665	4.0	17.8
5 21	15 51.79	-24 13.3	1.692	2.702	1.5	21.8	5 31	15 42.44	-9 5.3	1.671	2.656	6.6	17.9
5 31	15 40.95	-23 41.6	1.698	2.698	4.5	22.0	6 10	15 34.06	-8 51.1	1.705	2.646	10.3	18.1
6 10	15 31.28	-23 7.0	1.732	2.694	8.6	22.2	6 20	15 27.47	-8 50.5	1.761	2.636	13.8	18.3
6 20	15 23.65	-22 34.2	1.791	2.689	12.4	22.5	6 30	15 23.24	-9 3.9	1.837	2.626	16.8	18.5
307862	2004 <i>BW</i> ₃		5 20.9 71°97	1°7/20.3	17		499273	2009 <i>VU</i> ₆₁		5 21.0 219°81	0°3/21		

EPHEMERIDES

5 21.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
335790	2007 <i>GN</i> ₃₇		5 21.0 295°49	0°5/21.2	17		222780	2002 <i>CY</i> ₁₄₁		5 21.0 138°81	5°6/17.6	17	
4 21	16 16.27	-21 17.4	1.662	2.552	13.0	20.4	4 21	16 14.70	-4 34.8	2.208	3.085	10.8	20.6
5 1	16 10.16	-21 27.3	1.579	2.534	9.2	20.1	5 1	16 8.21	-3 37.6	2.160	3.098	8.2	20.5
5 11	16 1.73	-21 32.0	1.519	2.515	4.9	19.8	5 11	16 0.37	-2 47.5	2.138	3.110	6.1	20.4
5 21	15 51.83	-21 31.5	1.485	2.497	0.5	19.5	5 21	15 51.87	-2 8.5	2.143	3.121	5.8	20.4
5 31	15 41.65	-21 27.2	1.477	2.479	4.8	19.7	5 31	15 43.52	-1 43.6	2.176	3.132	7.4	20.5
6 10	15 32.47	-21 21.9	1.496	2.461	9.4	20.0	6 10	15 36.08	-1 34.4	2.234	3.143	9.8	20.7
6 20	15 25.31	-21 18.9	1.537	2.443	13.7	20.2	6 20	15 30.13	-1 40.7	2.316	3.152	12.3	20.9
6 30	15 20.89	-21 21.3	1.598	2.425	17.3	20.4	6 30	15 26.05	-2 1.3	2.418	3.161	14.4	21.0
240204	2002 <i>RV</i> ₁₄₄		5 21.0 304°74	3°2/19.1	18		387052	2012 <i>TC</i> ₂₃		5 21.0 217°97	0°8/21.5	17	
4 21	16 12.34	-14 27.2	1.775	2.672	11.9	20.4	4 21	16 14.92	-23 48.4	2.174	3.052	10.9	21.7
5 1	16 7.08	-13 29.3	1.700	2.658	8.4	20.2	5 1	16 8.66	-23 32.4	2.098	3.047	7.7	21.5
5 11	15 59.99	-12 29.1	1.650	2.644	4.8	19.9	5 11	16 0.73	-23 8.7	2.048	3.041	4.1	21.2
5 21	15 51.84	-11 30.9	1.626	2.631	3.3	19.8	5 21	15 51.87	-22 38.5	2.024	3.036	0.8	21.0
5 31	15 43.63	-10 39.8	1.628	2.617	6.2	19.9	5 31	15 43.00	-22 4.1	2.029	3.030	3.8	21.2
6 10	15 36.37	-10 0.1	1.656	2.604	10.1	20.1	6 10	15 35.02	-21 29.0	2.062	3.024	7.5	21.4
6 20	15 30.85	-9 34.7	1.707	2.591	13.7	20.3	6 20	15 28.66	-20 56.8	2.120	3.017	10.8	21.6
6 30	15 27.61	-9 24.8	1.777	2.578	16.8	20.5	6 30	15 24.41	-20 30.7	2.199	3.010	13.7	21.8
403259	2008 <i>YR</i> ₇₉		5 21.0 129°17	5°5/18.8	17		68299	2001 <i>FH</i> ₈₂		5 21.0 251°28	11°6/8.2	18	
4 21	16 17.22	-8 55.4	1.450	2.346	14.2	20.7	4 21	16 13.83	+13 10.8	2.265	3.083	12.7	18.8
5 1	16 10.57	-8 9.6	1.398	2.351	10.3	20.4	5 1	16 7.84	+15 32.9	2.213	3.066	11.8	18.7
5 11	16 1.77	-7 29.6	1.369	2.356	6.8	20.2	5 11	16 0.30	+17 38.0	2.185	3.049	11.6	18.6
5 21	15 51.84	-7 0.0	1.364	2.361	5.6	20.2	5 21	15 51.88	+19 18.5	2.181	3.032	12.3	18.6
5 31	15 42.04	-6 45.0	1.385	2.366	8.2	20.3	5 31	15 43.37	+20 29.1	2.201	3.014	13.5	18.7
6 10	15 33.58	-6 46.9	1.430	2.370	12.0	20.6	6 10	15 35.59	+21 8.1	2.242	2.995	15.1	18.8
6 20	15 27.30	-7 5.8	1.497	2.374	15.6	20.8	6 20	15 29.22	+21 17.1	2.299	2.976	16.7	18.9
6 30	15 23.75	-7 40.1	1.581	2.378	18.7	21.0	6 30	15 24.76	+20 59.4	2.370	2.957	18.0	19.0
338397	2003 <i>AW</i> ₇₇		5 21.0 143°73	2°3/22.5	18		117093	Umbria		5 21.0 10°32	1°6/20.3	17	
4 21	16 15.83	-29 17.6	3.075	3.925	8.8	21.9	4 21	16 12.19	-19 30.2	1.227	2.137	15.1	18.8
5 1	16 8.87	-29 25.1	3.010	3.939	6.5	21.8	5 1	16 7.43	-18 40.3	1.174	2.139	10.5	18.6
5 11	16 0.67	-29 24.3	2.971	3.952	4.0	21.6	5 11	16 0.28	-17 43.2	1.143	2.142	5.4	18.3
5 21	15 51.85	-29 15.3	2.962	3.965	2.3	21.5	5 21	15 51.87	-16 43.5	1.135	2.146	1.6	18.0
5 31	15 43.09	-28 58.9	2.982	3.976	3.3	21.6	5 31	15 43.60	-15 47.7	1.151	2.151	6.1	18.3
6 10	15 35.08	-28 37.4	3.032	3.988	5.7	21.8	6 10	15 36.81	-15 1.9	1.191	2.157	11.1	18.6
6 20	15 28.35	-28 13.4	3.109	3.998	8.0	21.9	6 20	15 32.40	-14 30.4	1.251	2.165	15.5	18.9
6 30	15 23.28	-27 50.0	3.210	4.008	10.1	22.1	6 30	15 30.91	-14 15.2	1.329	2.173	19.2	19.2
1633	Chimay		5 21.0 47°96	1°1/20.4	18 R		329927	2005 <i>NN</i> ₇₈		5 21.0 314°46	1°4/20.1	18	
4 21	16 12.79	-17 45.2	2.038	2.929	10.9	15.2	4 21	16 9.76	-16 14.7	2.625	3.513	8.9	20.6
5 1	16 7.10	-17 27.9	1.982	2.938	7.6	15.0	5 1	16 4.91	-15 56.1	2.537	3.492	6.2	20.4
5 11	15 59.86	-17 8.1	1.952	2.948	3.9	14.8	5 11	15 58.77	-15 36.1	2.475	3.471	3.3	20.2
5 21	15 51.85	-16 47.8	1.948	2.959	1.2	14.6	5 21	15 51.88	-15 16.4	2.441	3.451	1.4	20.0
5 31	15 43.94	-16 29.4	1.972	2.969	4.3	14.8	5 31	15 44.89	-14 58.9	2.436	3.431	3.9	20.2
6 10	15 36.98	-16 15.4	2.022	2.980	7.9	15.1	6 10	15 38.48	-14 45.8	2.458	3.411	6.9	20.3
6 20	15 31.62	-16 7.9	2.097	2.991	11.1	15.3	6 20	15 33.23	-14 38.7	2.505	3.391	9.8	20.5
6 30	15 28.29	-16 8.2	2.193	3.002	13.8	15.5	6 30	15 29.59	-14 38.8	2.574	3.372	12.3	20.6
382827	2003 <i>XN</i> ₃₀		5 21.0 255°75	0°3/21.2	17		455263	2001 <i>UM</i> ₂₂₁		5 21.0 85°69	1°8/21.4	18	
4 21	16 14.28	-22 30.9	1.993	2.877	11.5	21.4	4 21	16 28.85	-21 32.7	1.458	2.334	15.3	21.3
5 1	16 8.31	-22 7.3	1.918	2.870	8.0	21.2	5 1	16 18.65	-22 38.7	1.419	2.367	10.7	21.1
5 11	16 0.58	-21 36.5	1.867	2.863	4.2	20.9	5 11	16 5.89	-23 37.9	1.405	2.398	5.8	20.9
5 21	15 51.85	-20 59.8	1.844	2.856	0.3	20.6	5 21	15 51.89	-24 26.9	1.419	2.429	1.8	20.7
5 31	15 43.10	-20 20.3	1.849	2.849	4.1	20.9	5 31	15 38.25	-25 4.8	1.461	2.460	5.2	21.0
6 10	15 35.31	-19 42.0	1.880	2.842	8.0	21.1	6 10	15 26.47	-25 33.4	1.529	2.489	9.7	21.3
6 20	15 29.23	-19 8.5	1.936	2.835	11.6	21.3	6 20	15 17.51	-25 56.4	1.622	2.518	13.6	21.6
6 30	15 25.37	-18 42.9	2.013	2.828	14.6	21.5	6 30	15 11.86	-26 17.8	1.735	2.546	16.8	21.9
124661	2001 <i>SG</i> ₈₁		5 21.0 204°79	1°4/20.3	16		114992	2003 <i>QG</i> ₇₀		5 21.0 202°67	3°3/19.3	17	
4 21	16 18.59	-18 33.9	1.666	2.554	13.1	20.7	4 21	16 16.99	-13 39.8	1.812	2.701	12.1	20.7
5 1	16 11.52	-17 56.8	1.595	2.550	9.1	20.5	5 1	16 10.22	-12 51.2	1.744	2.698	8.6	20.5
5 11	16 2.29	-17 14.2	1.549	2.545	4.7	20.2	5 11	16 1.57	-12 1.7	1.700	2.693	4.9	20.2
5 21	15 51.86	-16 29.0	1.529	2.540	1.5	19.9	5 21	15 51.88	-11 15.2	1.684	2.688	3.3	20.1
5 31	15 41.42	-15 45.4	1.537	2.534	5.4	20.2	5 31	15 42.20	-10 35.9	1.695	2.682	6.2	20.3
6 10	15 32.16	-15 8.0	1.570	2.527	9.8	20.4	6 10	15 33.58	-10 7.6	1.732	2.676	10.0	20.5
6 20	15 24.99	-14 40.5	1.628	2.519	13.9	20.7	6 20	15 26.80	-9 52.5	1.793	2.669	13.5	20.7
6 30	15 20.49	-14 25.6	1.705	2.511	17.2	20.9	6 30	15 22.39	-9 51.5	1.873	2.661	16.5	20.9
140162	2001 <i>SP</i> ₁₇₆		5 21.0 153°43	1°1/20.3	18		146220	2000 <i>VB</i> ₅₈		5 21.0 219°73	1°7/22.2	17	
4 21	16 13.55	-17 10.0	2.629	3.509	9.1	20.5	4 21	16 13.37	-27 20.1	2.486	3.354	10.1	20.6
5 1	16 7.37	-16 55.2	2.565	3.516	6.3	20.4	5 1	16 7.44	-27 0.8	2.408	3.349	7.3	20.4
5 11	15 59.94	-16 38.7	2.527	3.523	3.3	20.2	5 11	16 0.06	-26 32.2	2.356	3.345	4.2	20.2
5 21	15 51.86	-16 21.8	2.518	3.529	1.1	20.0	5 21	15 51.88	-25 55.2	2.331	3.340	1.7	20.0
5 31	15 43.84	-16 6.4	2.539	3.534	3.7	20.2	5 31	15 43.73	-25 12.0	2.336	3.335	3.5	20.1
6 10	15 36.56	-15 54.4	2.587	3.540	6.7	20.4	6 10	15 36.39	-24 26.0	2.368	3.330	6.6	20.3
6 20	15 30.57	-15 47.4	2.662	3.545	9.4	20.6	6 20	15 30.48	-23 41.0	2.426	3.324	9.6	20.5
6 30	15 26.26	-15 46.8	2.759	3.549	11.7	20.8	6 30	15 26.46	-23 0.4	2.507	3.319	12.2	20.6
67056	1999 <i>XL</i> ₂₁₂		5 21.0 299°52	2°7/20.2	18		210291	2007 <i>TE</i> ₇₂		5 21.0 177°65	0°4/21.2		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
87844	2000 SS ₂₀₃		5 21.0 337°02	0°4/21.2	18		325969	2010 VN ₁₃₃		5 21.0 331°14	0°0/21.0	17	
4 21	16 13.24	-21 59.1	1.892	2.781	11.8	19.4	4 21	16 16.88	-19 13.3	1.286	2.188	15.2	19.9
5 1	16 7.69	-21 53.1	1.821	2.775	8.3	19.2	5 1	16 10.96	-19 33.4	1.219	2.179	10.7	19.6
5 11	16 0.31	-21 40.9	1.774	2.770	4.3	18.9	5 11	16 2.28	-19 50.5	1.173	2.171	5.6	19.3
5 21	15 51.90	-21 23.7	1.753	2.765	0.4	18.6	5 21	15 51.92	-20 4.6	1.151	2.163	0.0	18.8
5 31	15 43.45	-21 3.5	1.759	2.760	4.2	18.9	5 31	15 41.35	-20 16.6	1.154	2.156	5.6	19.2
6 10	15 35.96	-20 43.6	1.791	2.756	8.2	19.1	6 10	15 32.12	-20 29.2	1.180	2.149	10.9	19.5
6 20	15 30.21	-20 27.2	1.848	2.752	11.8	19.3	6 20	15 25.41	-20 44.9	1.228	2.143	15.6	19.8
6 30	15 26.76	-20 17.0	1.925	2.748	14.9	19.5	6 30	15 21.99	-21 6.4	1.293	2.138	19.6	20.0
198701	2005 CC ₂₆		5 21.0 171°37	6°1/17.5	18		97108	1999 VM ₇₈		5 21.0 175°46	0°7/21.4	18	
4 21	16 13.82	-2 49.4	2.203	3.078	10.9	20.2	4 21	16 15.36	-23 41.6	2.125	3.003	11.1	20.3
5 1	16 7.70	-2 2.3	2.146	3.080	8.4	20.1	5 1	16 8.95	-23 20.5	2.056	3.005	7.8	20.1
5 11	16 0.17	-1 23.5	2.115	3.083	6.5	20.0	5 11	16 0.88	-22 51.6	2.012	3.006	4.2	19.9
5 21	15 51.90	-0 56.9	2.110	3.084	6.2	19.9	5 21	15 51.93	-22 16.3	1.995	3.007	0.7	19.6
5 31	15 43.71	-0 45.2	2.133	3.086	7.8	20.0	5 31	15 43.03	-21 37.3	2.007	3.007	3.8	19.9
6 10	15 36.35	-0 49.6	2.181	3.086	10.1	20.2	6 10	15 35.10	-20 58.4	2.046	3.008	7.5	20.1
6 20	15 30.44	-1 9.6	2.252	3.087	12.6	20.4	6 20	15 28.83	-20 23.2	2.110	3.007	10.9	20.3
6 30	15 26.40	-1 43.8	2.342	3.087	14.8	20.5	6 30	15 24.70	-19 54.8	2.197	3.007	13.7	20.5
350184	2011 UU ₂₅₆		5 21.0 174°37	4°1/23.9	17		286959	2002 PL ₁₈₀		5 21.0 250°57	0°1/21.1	17	
4 21	16 15.30	-35 47.3	2.777	3.610	10.2	21.3	4 21	16 14.58	-21 39.8	2.044	2.928	11.2	21.7
5 1	16 8.74	-35 50.7	2.702	3.612	8.0	21.1	5 1	16 8.53	-21 23.9	1.968	2.920	7.9	21.5
5 11	16 0.71	-35 41.3	2.651	3.613	5.7	21.0	5 11	16 0.72	-21 2.0	1.917	2.913	4.1	21.2
5 21	15 51.90	-35 18.5	2.628	3.614	4.2	20.9	5 21	15 51.93	-20 35.2	1.893	2.905	0.1	20.8
5 31	15 43.13	-34 43.5	2.633	3.615	4.6	20.9	5 31	15 43.08	-20 6.0	1.896	2.897	4.0	21.2
6 10	15 35.21	-33 59.3	2.666	3.616	6.6	21.0	6 10	15 35.15	-19 37.8	1.927	2.888	7.9	21.4
6 20	15 28.75	-33 10.0	2.725	3.616	8.9	21.2	6 20	15 28.87	-19 14.0	1.982	2.880	11.4	21.6
6 30	15 24.22	-32 19.8	2.807	3.616	11.1	21.3	6 30	15 24.79	-18 57.1	2.059	2.871	14.4	21.8
55556	2001 YJ ₃₄		5 21.0 336°32	1°1/20.6	18		263243	2008 AP ₁₀₇		5 21.0 70°88	2°9/19.4	17	
4 21	16 14.21	-16 34.8	1.688	2.584	12.5	18.1	4 21	16 12.83	-12 35.5	2.097	2.988	10.7	20.7
5 1	16 8.58	-16 49.9	1.615	2.573	8.8	17.9	5 1	16 7.09	-12 6.8	2.041	2.995	7.5	20.5
5 11	16 0.87	-17 4.9	1.565	2.562	4.6	17.6	5 11	15 59.88	-11 39.6	2.010	3.002	4.4	20.3
5 21	15 51.91	-17 20.5	1.540	2.552	1.1	17.3	5 21	15 51.93	-11 16.4	2.006	3.010	3.0	20.2
5 31	15 42.78	-17 37.8	1.542	2.542	4.9	17.6	5 31	15 44.06	-11 0.0	2.029	3.017	5.3	20.4
6 10	15 34.64	-17 58.2	1.570	2.533	9.3	17.8	6 10	15 37.09	-10 52.4	2.079	3.025	8.5	20.6
6 20	15 28.38	-18 23.0	1.621	2.525	13.2	18.0	6 20	15 31.64	-10 54.6	2.153	3.032	11.5	20.8
6 30	15 24.64	-18 53.5	1.692	2.517	16.5	18.2	6 30	15 28.14	-11 6.9	2.248	3.040	14.0	21.0
163982	2003 UK ₁₂₇		5 21.0 292°48	0°1/21.0	17		309852	2009 DS ₃₁		5 21.0 132°80	2°7/19.7	18	
4 21	16 14.91	-20 57.0	1.825	2.714	12.1	20.2	4 21	16 18.28	-15 10.4	1.704	2.594	12.8	21.2
5 1	16 8.93	-20 51.0	1.751	2.706	8.5	20.0	5 1	16 11.05	-14 24.8	1.652	2.607	8.9	21.0
5 11	16 0.99	-20 39.4	1.701	2.698	4.4	19.7	5 11	16 1.95	-13 37.9	1.625	2.620	4.9	20.8
5 21	15 51.91	-20 23.5	1.677	2.689	0.1	19.3	5 21	15 51.93	-12 53.3	1.625	2.632	2.8	20.6
5 31	15 42.75	-20 5.3	1.681	2.681	4.4	19.7	5 31	15 42.13	-12 15.2	1.652	2.644	5.8	20.9
6 10	15 34.58	-19 48.1	1.710	2.673	8.6	19.9	6 10	15 33.59	-11 47.3	1.706	2.654	9.7	21.1
6 20	15 28.25	-19 35.0	1.764	2.666	12.4	20.1	6 20	15 27.07	-11 31.7	1.783	2.665	13.3	21.4
6 30	15 24.33	-19 28.7	1.837	2.658	15.6	20.3	6 30	15 23.02	-11 29.2	1.879	2.674	16.3	21.6
457701	2009 EN ₂₅		5 21.0 48°14	3°2/19.6	17		229541	2005 YA ₁₁₀		5 21.0 187°86	1°3/20.3	18	
4 21	16 15.65	-15 42.7	1.252	2.159	15.1	21.2	4 21	16 15.73	-17 37.6	2.169	3.053	10.7	21.5
5 1	16 9.70	-14 49.6	1.205	2.167	10.6	21.0	5 1	16 9.15	-17 12.9	2.100	3.052	7.4	21.3
5 11	16 1.40	-13 54.5	1.179	2.177	5.8	20.7	5 11	16 0.98	-16 45.2	2.055	3.051	3.8	21.0
5 21	15 51.91	-13 2.5	1.178	2.186	3.3	20.6	5 21	15 51.95	-16 16.5	2.039	3.050	1.3	20.8
5 31	15 42.65	-12 19.3	1.201	2.196	7.0	20.8	5 31	15 42.94	-15 49.4	2.052	3.048	4.3	21.1
6 10	15 34.93	-11 50.0	1.248	2.206	11.6	21.1	6 10	15 34.82	-15 27.0	2.092	3.045	7.9	21.3
6 20	15 29.65	-11 36.8	1.315	2.216	15.8	21.4	6 20	15 28.28	-15 11.4	2.157	3.042	11.2	21.5
6 30	15 27.30	-11 40.1	1.401	2.227	19.3	21.6	6 30	15 23.79	-15 4.5	2.243	3.038	13.9	21.7
388767	2007 XV ₅₈		5 21.0 220°04	3°3/19.3	18		357820	2005 UC ₂₇		5 21.0 230°77	1°6/22.1	18	
4 21	16 13.27	-10 33.9	2.293	3.178	10.1	21.0	4 21	16 13.54	-26 48.6	2.734	3.599	9.4	21.9
5 1	16 7.36	-10 12.7	2.224	3.174	7.2	20.8	5 1	16 7.52	-26 41.3	2.649	3.589	6.8	21.7
5 11	16 0.03	-9 54.4	2.182	3.171	4.4	20.6	5 11	16 0.13	-26 26.2	2.590	3.579	3.9	21.5
5 21	15 51.91	-9 41.1	2.167	3.167	3.3	20.5	5 21	15 51.95	-26 3.7	2.560	3.568	1.7	21.3
5 31	15 43.79	-9 35.1	2.180	3.163	5.4	20.6	5 31	15 43.72	-25 35.2	2.558	3.557	3.3	21.4
6 10	15 36.44	-9 38.0	2.220	3.159	8.3	20.8	6 10	15 36.19	-25 3.4	2.585	3.546	6.2	21.6
6 20	15 30.48	-9 50.5	2.284	3.155	11.2	21.0	6 20	15 29.96	-24 31.3	2.638	3.534	9.0	21.8
6 30	15 26.36	-10 12.5	2.370	3.151	13.7	21.2	6 30	15 25.47	-24 2.0	2.715	3.522	11.5	21.9
65100	Birtwhistle		5 21.0 15°49	11°1/13.2	18		131185	2001 CR ₄₆		5 21.0 116°24	3°2/22.5	17	
4 21	16 10.95	+11 24.7	2.070	2.906	13.1	18.7	4 21	16 19.01	-28 57.4	2.070	2.932	12.0	20.5
5 1	16 5.78	+12 44.6	2.031	2.907	11.7	18.6	5 1	16 11.58	-29 22.1	2.011	2.946	8.8	20.4
5 11	15 59.20	+13 44.8	2.015	2.910	11.1	18.5	5 11	16 2.27	-29 36.1	1.977	2.959	5.5	20.2
5 21	15 51.91	+14 20.1	2.021	2.912	11.4	18.5	5 21	15 51.95	-29 38.3	1.969	2.972	3.2	20.1
5 31	15 44.71	+14 27.8	2.049	2.914	12.4	18.6	5 31	15 41.72	-29 29.6	1.990	2.985	4.6	20.2
6 10	15 38.39	+14 7.9	2.099	2.917	13.9	18.7	6 10	15 32.60	-29 13.1	2.039	2.997	7.7	20.4
6 20	15 33.54	+13 23.3	2.167	2.920	15.6	18.9	6 20	15 25.39	-28 52.7	2.112	3.009	10.8	20.6
6 30	15 30.57	+12 17.9	2.251	2.924	17.1	19.0	6 30	15 20.59	-28 32.7	2.207	3.021	13.5	20.8
85470	1997 LN ₂		5 21.0 193°79	6°5/16.7	18		499803	2011 CE ₈₈		5 21.0 97°58	13°0/13.2	17	
4 21	16 11.29	+0 42.9	2										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
346155	2007 <i>VJ</i> ₂₇₉		5 21.0	37°96	0°4/21.3	17	67295	2000 <i>GK</i> ₇₇		5 21.0	89°50	3°0/21.9	18
4 21	16 13.36	-24 19.0	1.884	2.768	12.0	20.5	4 21	16 21.07	-25 40.7	1.318	2.206	15.9	19.8
5 1	16 7.65	-23 29.2	1.821	2.773	8.4	20.3	5 1	16 13.84	-26 13.7	1.260	2.210	11.5	19.5
5 11	16 0.23	-22 29.4	1.782	2.778	4.4	20.1	5 11	16 3.74	-26 36.0	1.223	2.215	6.7	19.3
5 21	15 51.95	-21 22.6	1.771	2.783	0.4	19.8	5 21	15 51.99	-26 45.4	1.211	2.219	3.0	19.1
5 31	15 43.81	-20 13.4	1.787	2.788	4.1	20.1	5 31	15 40.23	-26 42.7	1.223	2.223	5.8	19.2
6 10	15 36.76	-19 7.1	1.830	2.794	8.1	20.3	6 10	15 30.07	-26 32.0	1.260	2.228	10.6	19.5
6 20	15 31.51	-18 8.5	1.897	2.799	11.7	20.5	6 20	15 22.69	-26 18.6	1.319	2.232	15.0	19.8
6 30	15 28.49	-17 21.1	1.986	2.805	14.7	20.8	6 30	15 18.73	-26 8.0	1.397	2.236	18.7	20.0
360719	2004 <i>TW</i> ₁₃₁		5 21.0	224°88	0°3/21.1	17	74735	1999 <i>RB</i> ₁₈₀		5 21.0	230°59	0°4/20.9	18
4 21	16 20.17	-20 29.5	1.573	2.460	13.8	21.0	4 21	16 18.63	-19 30.3	1.756	2.642	12.7	19.9
5 1	16 12.90	-20 41.7	1.500	2.454	9.7	20.8	5 1	16 11.64	-19 27.4	1.679	2.633	8.9	19.6
5 11	16 3.17	-20 49.0	1.451	2.447	5.1	20.5	5 11	16 2.47	-19 20.2	1.626	2.623	4.6	19.3
5 21	15 51.96	-20 51.5	1.428	2.440	0.3	20.1	5 21	15 52.00	-19 9.5	1.600	2.612	0.4	19.0
5 31	15 40.58	-20 50.4	1.432	2.433	5.0	20.4	5 31	15 41.39	-18 57.4	1.602	2.601	4.8	19.3
6 10	15 30.41	-20 48.5	1.461	2.424	9.8	20.7	6 10	15 31.82	-18 46.9	1.630	2.590	9.2	19.5
6 20	15 22.50	-20 49.2	1.514	2.416	14.1	20.9	6 20	15 24.24	-18 41.0	1.682	2.578	13.2	19.8
6 30	15 17.54	-20 55.6	1.587	2.407	17.7	21.1	6 30	15 19.29	-18 42.4	1.754	2.566	16.6	20.0
499111	2009 <i>HX</i> ₂₈		5 21.0	317°63	1°4/20.5	17	47486	2000 <i>AG</i> ₂₅		5 21.0	163°89	0°6/21.3	18
4 21	16 14.53	-18 6.4	1.201	2.110	15.5	20.8	4 21	16 18.30	-22 53.4	1.885	2.765	12.2	20.6
5 1	16 9.53	-17 52.1	1.124	2.089	10.9	20.4	5 1	16 11.16	-22 42.4	1.820	2.770	8.6	20.4
5 11	16 1.67	-17 33.3	1.069	2.068	5.7	20.1	5 11	16 2.09	-22 23.9	1.780	2.774	4.5	20.2
5 21	15 51.96	-17 12.4	1.037	2.048	1.5	19.7	5 21	15 52.00	-21 58.9	1.766	2.778	0.7	19.9
5 31	15 41.88	-16 53.2	1.028	2.029	6.4	20.0	5 31	15 41.97	-21 30.0	1.781	2.781	4.2	20.2
6 10	15 33.07	-16 40.3	1.042	2.011	12.0	20.2	6 10	15 33.07	-21 0.8	1.822	2.784	8.3	20.4
6 20	15 26.81	-16 37.6	1.076	1.993	17.2	20.5	6 20	15 26.09	-20 35.1	1.889	2.786	11.9	20.6
6 30	15 23.93	-16 47.8	1.126	1.976	21.5	20.7	6 30	15 21.56	-20 16.2	1.976	2.787	15.0	20.8
233373	2006 <i>DM</i> ₁₈₈		5 21.0	205°37	2°3/19.8	18	486705	2014 <i>AT</i> ₁₆		5 21.0	282°40	17°0/28.8	17
4 21	16 14.64	-15 1.0	2.069	2.956	10.9	20.6	4 21	16 27.92	-52 48.2	1.118	1.917	24.0	20.9
5 1	16 8.46	-14 29.9	1.999	2.954	7.6	20.4	5 1	16 20.76	-54 6.2	1.053	1.909	21.6	20.7
5 11	16 0.65	-13 57.8	1.956	2.950	4.2	20.2	5 11	16 8.15	-54 43.3	1.003	1.901	19.3	20.5
5 21	15 51.96	-13 27.3	1.939	2.947	2.3	20.0	5 21	15 52.01	-54 26.7	0.969	1.893	17.5	20.3
5 31	15 43.27	-13 1.2	1.951	2.943	5.0	20.2	5 31	15 35.61	-53 11.0	0.953	1.885	17.1	20.3
6 10	15 35.48	-12 42.4	1.989	2.938	8.5	20.4	6 10	15 22.35	-51 3.9	0.955	1.877	18.2	20.3
6 20	15 29.28	-12 32.9	2.052	2.934	11.8	20.6	6 20	15 14.30	-48 23.0	0.975	1.870	20.6	20.4
6 30	15 25.15	-12 33.8	2.135	2.929	14.6	20.8	6 30	15 12.09	-45 28.7	1.012	1.862	23.4	20.6
358312	2006 <i>UQ</i> ₂₆₆		5 21.0	134°01	0°8/20.6	18	153904	2001 <i>XV</i> ₂₃₂		5 21.0	157°60	1°4/21.7	17
4 21	16 13.32	-18 31.9	2.526	3.407	9.4	22.1	4 21	16 17.59	-24 32.4	1.978	2.854	11.9	20.7
5 1	16 7.28	-18 14.5	2.464	3.416	6.5	21.9	5 1	16 10.64	-24 32.6	1.912	2.859	8.5	20.5
5 11	15 59.95	-17 54.4	2.429	3.425	3.3	21.7	5 11	16 1.82	-24 24.6	1.871	2.864	4.6	20.2
5 21	15 51.96	-17 32.9	2.422	3.433	0.8	21.5	5 21	15 52.00	-24 8.9	1.857	2.868	1.4	20.0
5 31	15 44.04	-17 12.2	2.444	3.441	3.6	21.8	5 31	15 42.22	-23 47.2	1.871	2.871	4.1	20.2
6 10	15 36.91	-16 54.5	2.494	3.449	6.7	22.0	6 10	15 33.51	-23 23.0	1.912	2.875	7.9	20.5
6 20	15 31.12	-16 41.7	2.570	3.457	9.6	22.2	6 20	15 26.65	-23 0.0	1.978	2.878	11.4	20.7
6 30	15 27.07	-16 35.4	2.668	3.464	11.9	22.4	6 30	15 22.15	-22 41.6	2.066	2.880	14.3	20.9
58380	1995 <i>SG</i> ₃₂		5 21.0	183°87	1°2/20.3	18	46215	2001 <i>FX</i> ₁₇₀		5 21.0	87°04	3°0/19.2	18
4 21	16 13.06	-17 48.5	2.259	3.145	10.2	20.2	4 21	16 13.65	-14 47.2	1.889	2.782	11.5	19.1
5 1	16 7.26	-17 22.8	2.191	3.145	7.1	20.0	5 1	16 7.75	-13 44.6	1.836	2.792	8.1	18.9
5 11	16 0.00	-16 54.4	2.149	3.145	3.7	19.8	5 11	16 0.26	-12 40.7	1.808	2.802	4.5	18.7
5 21	15 51.96	-16 25.1	2.134	3.145	1.2	19.6	5 21	15 52.00	-11 39.9	1.807	2.812	3.1	18.6
5 31	15 43.95	-15 57.5	2.148	3.145	4.1	19.8	5 31	15 43.90	-10 46.8	1.833	2.822	5.7	18.8
6 10	15 36.78	-15 34.5	2.189	3.144	7.5	20.0	6 10	15 36.85	-10 5.0	1.886	2.831	9.2	19.1
6 20	15 31.05	-15 18.2	2.255	3.144	10.6	20.2	6 20	15 31.50	-9 36.9	1.962	2.841	12.4	19.3
6 30	15 27.22	-15 10.2	2.343	3.143	13.3	20.4	6 30	15 28.26	-9 23.2	2.059	2.851	15.1	19.5
152546	4729 <i>T</i> ₋₂		5 21.0	202°00	0°6/20.7	17	126113	2001 <i>YP</i> ₁₁₁		5 21.0	99°20	4°9/22.8	18
4 21	16 17.04	-19 7.3	2.061	2.943	11.2	20.8	4 21	16 21.06	-30 46.1	1.416	2.290	15.9	19.3
5 1	16 10.20	-18 55.9	1.987	2.939	7.8	20.6	5 1	16 13.77	-31 18.2	1.357	2.296	11.9	19.1
5 11	16 1.58	-18 40.5	1.939	2.935	4.0	20.3	5 11	16 3.68	-31 34.3	1.320	2.302	7.8	18.9
5 21	15 51.97	-18 22.5	1.918	2.930	0.6	20.1	5 21	15 52.01	-31 31.9	1.307	2.308	5.0	18.7
5 31	15 42.32	-18 4.1	1.926	2.924	4.3	20.3	5 31	15 40.36	-31 11.9	1.319	2.314	6.4	18.8
6 10	15 33.60	-17 48.1	1.961	2.918	8.1	20.6	6 10	15 30.34	-30 39.4	1.356	2.320	10.3	19.0
6 20	15 26.57	-17 37.1	2.022	2.912	11.6	20.8	6 20	15 23.05	-30 1.4	1.415	2.325	14.3	19.3
6 30	15 21.76	-17 33.3	2.103	2.905	14.5	20.9	6 30	15 19.13	-29 25.0	1.493	2.331	17.8	19.5
207623	2006 <i>SK</i> ₅		5 21.0	258°44	0°3/21.3	18	303258	2004 <i>RO</i> ₅₆		5 21.0	227°09	1°8/20.2	16
4 21	16 9.56	-22 19.9	3.580	4.452	7.2	20.9	4 21	16 18.00	-17 53.7	1.592	2.485	13.4	21.5
5 1	16 4.54	-22 6.5	3.488	4.435	5.0	20.8	5 1	16 11.26	-17 14.7	1.520	2.476	9.4	21.2
5 11	15 58.53	-21 49.0	3.424	4.418	2.6	20.6	5 11	16 2.28	-16 30.7	1.471	2.468	4.9	20.9
5 21	15 51.98	-21 28.3	3.389	4.401	0.3	20.3	5 21	15 52.01	-15 44.6	1.448	2.458	1.8	20.7
5 31	15 45.37	-21 5.8	3.384	4.383	2.5	20.5	5 31	15 41.67	-15 1.0	1.452	2.449	5.7	20.9
6 10	15 39.23	-20 43.1	3.407	4.365	5.0	20.7	6 10	15 32.51	-14 24.7	1.482	2.438	10.3	21.1
6 20	15 33.97	-20 22.0	3.458	4.347	7.3	20.8	6 20	15 25.47	-13 59.5	1.534	2.427	14.4	21.4
6 30	15 29.96	-20 4.4	3.533	4.329	9.3	20.9	6 30	15 21.17	-13 47.6	1.606	2.416	17.9	21.6
394179	2006 <i>RT</i> ₅₄		5 21.0	193									

EPHEMERIDES

5 21.0

5 21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
260218	2004 <i>RQ</i> ₂₁₂		5 21.0 279°21	1°2/21.9	17		509730	2008 <i>SX</i> ₂₄₄		5 21.0 221°86	6°5/23.8	18	
4 21	16 12.83	-26 52.1	2.359	3.231	10.4	20.0	4 21	16 21.73	-38 45.1	2.276	3.096	12.6	22.5
5 1	16 7.14	-26 5.2	2.276	3.221	7.4	19.8	5 1	16 13.85	-39 36.0	2.193	3.088	10.2	22.3
5 11	15 59.97	-25 7.4	2.219	3.211	4.1	19.5	5 11	16 3.67	-40 11.3	2.133	3.078	7.9	22.1
5 21	15 52.00	-24 0.6	2.190	3.201	1.2	19.3	5 21	15 52.04	-40 27.7	2.099	3.069	6.6	22.0
5 31	15 44.06	-22 48.5	2.190	3.191	3.5	19.5	5 31	15 40.14	-40 24.0	2.093	3.059	7.0	22.0
6 10	15 36.97	-21 35.7	2.218	3.181	7.0	19.7	6 10	15 29.23	-40 2.6	2.113	3.048	8.9	22.1
6 20	15 31.36	-20 26.9	2.273	3.171	10.2	19.8	6 20	15 20.31	-39 28.5	2.158	3.037	11.4	22.3
6 30	15 27.68	-19 26.0	2.350	3.161	12.9	20.0	6 30	15 14.09	-38 47.8	2.225	3.026	13.9	22.4
466607	2014 <i>UN</i> ₂₀₈		5 21.0 134°65	1°4/21.8	17		122103	2000 <i>HQ</i> ₇₆		5 21.0 69°06	4°2/19.7	18	
4 21	16 17.81	-25 58.7	1.696	2.576	13.3	21.7	4 21	16 18.25	-12 1.3	1.247	2.150	15.5	19.2
5 1	16 10.93	-25 29.5	1.635	2.583	9.5	21.5	5 1	16 11.59	-11 36.8	1.199	2.158	11.0	19.0
5 11	16 2.00	-24 48.3	1.597	2.590	5.2	21.2	5 11	16 2.45	-11 16.0	1.173	2.167	6.4	18.7
5 21	15 52.01	-23 57.1	1.586	2.597	1.5	21.0	5 21	15 52.03	-11 2.4	1.171	2.176	4.2	18.6
5 31	15 42.18	-22 59.7	1.602	2.603	4.5	21.2	5 31	15 41.79	-10 59.7	1.193	2.185	7.5	18.8
6 10	15 33.66	-22 1.9	1.645	2.609	8.8	21.5	6 10	15 33.11	-11 10.0	1.239	2.194	12.0	19.1
6 20	15 27.28	-21 9.2	1.711	2.615	12.6	21.7	6 20	15 26.95	-11 33.7	1.306	2.203	16.2	19.4
6 30	15 23.54	-20 25.9	1.798	2.620	15.8	21.9	6 30	15 23.85	-12 10.1	1.390	2.212	19.6	19.6
308394	2005 <i>SD</i> ₄₄		5 21.0 202°21	4°0/23.1	16		245498	2005 <i>QK</i> ₁₄₄		5 21.0 211°65	4°7/17.5	18	
4 21	16 15.82	-32 33.7	2.363	3.214	11.1	20.8	4 21	16 11.55	-3 50.9	2.897	3.768	8.7	21.4
5 1	16 9.38	-32 57.6	2.289	3.213	8.5	20.6	5 1	16 5.97	-3 9.8	2.828	3.761	6.7	21.2
5 11	16 1.19	-33 9.8	2.240	3.213	5.8	20.4	5 11	15 59.30	-2 34.4	2.785	3.754	5.1	21.1
5 21	15 52.01	-33 9.2	2.218	3.212	4.1	20.3	5 21	15 52.03	-2 7.4	2.771	3.746	4.8	21.1
5 31	15 42.78	-32 56.2	2.223	3.211	4.9	20.4	5 31	15 44.75	-1 51.1	2.785	3.738	6.1	21.2
6 10	15 34.44	-32 33.7	2.255	3.211	7.3	20.5	6 10	15 38.06	-1 46.8	2.825	3.730	8.2	21.3
6 20	15 27.74	-32 5.3	2.313	3.210	10.1	20.7	6 20	15 32.44	-1 54.6	2.890	3.721	10.3	21.4
6 30	15 23.21	-31 35.5	2.393	3.209	12.6	20.9	6 30	15 28.26	-2 14.2	2.977	3.711	12.1	21.5
86188	1999 <i>RV</i> ₂₄₁		5 21.0 281°71	2°1/22.2	18		502986	2015 <i>FQ</i> ₇₄		5 21.0 83°07	0°1/21.1	17	
4 21	16 14.13	-27 0.5	2.276	3.147	10.8	20.1	4 21	16 16.23	-20 39.9	1.888	2.773	11.9	21.2
5 1	16 8.23	-27 3.9	2.190	3.132	7.8	19.8	5 1	16 9.67	-20 41.9	1.831	2.784	8.3	21.0
5 11	16 0.63	-26 58.6	2.129	3.117	4.6	19.6	5 11	16 1.32	-20 39.2	1.799	2.796	4.3	20.8
5 21	15 52.01	-26 44.4	2.095	3.102	2.1	19.4	5 21	15 52.03	-20 32.6	1.794	2.807	0.1	20.5
5 31	15 43.26	-26 22.6	2.088	3.087	3.9	19.5	5 31	15 42.85	-20 23.9	1.817	2.818	4.2	20.8
6 10	15 35.31	-25 56.2	2.110	3.072	7.3	19.7	6 10	15 34.75	-20 15.7	1.866	2.828	8.1	21.1
6 20	15 28.90	-25 28.6	2.156	3.057	10.5	19.9	6 20	15 28.49	-20 10.6	1.940	2.839	11.6	21.3
6 30	15 24.57	-25 3.4	2.225	3.043	13.3	20.0	6 30	15 24.55	-20 10.9	2.035	2.850	14.5	21.5
9281	Weryk		5 21.0 195°68	0°6/21.4	18		371740	2007 <i>EL</i> ₁₇₁		5 21.0 85°30	16°7/9.2	18	
4 21	16 17.61	-23 18.0	1.989	2.867	11.8	19.1	4 21	16 15.31	+25 31.3	1.825	2.583	17.5	20.3
5 1	16 10.67	-23 0.0	1.916	2.864	8.3	18.9	5 1	16 8.92	+27 22.7	1.818	2.599	16.8	20.3
5 11	16 1.86	-22 33.9	1.867	2.862	4.4	18.6	5 11	16 0.86	+28 39.5	1.830	2.615	16.7	20.3
5 21	15 52.02	-22 0.9	1.846	2.858	0.7	18.3	5 21	15 52.04	+29 16.7	1.859	2.631	17.0	20.3
5 31	15 42.18	-21 23.9	1.854	2.854	4.1	18.6	5 31	15 43.52	+29 13.0	1.905	2.647	17.7	20.4
6 10	15 33.37	-20 46.6	1.889	2.849	8.1	18.8	6 10	15 36.23	+28 31.4	1.966	2.663	18.6	20.5
6 20	15 26.37	-20 13.2	1.948	2.844	11.7	19.0	6 20	15 30.84	+27 17.7	2.041	2.679	19.5	20.7
6 30	15 21.73	-19 46.9	2.029	2.838	14.7	19.2	6 30	15 27.73	+25 38.7	2.127	2.694	20.3	20.8
248401	2005 <i>SP</i> ₇₅		5 21.0 251°45	1°8/22.1	18		43071	1999 <i>VA</i> ₁₇₃		5 21.0 191°02	0°5/20.8	18	
4 21	16 14.31	-26 33.1	2.451	3.319	10.2	21.0	4 21	16 16.03	-19 5.9	2.024	2.908	11.3	19.1
5 1	16 8.23	-26 35.2	2.366	3.308	7.4	20.8	5 1	16 9.53	-19 3.7	1.955	2.908	7.9	18.9
5 11	16 0.58	-26 29.3	2.308	3.296	4.3	20.6	5 11	16 1.28	-18 58.2	1.911	2.907	4.0	18.7
5 21	15 52.01	-26 15.5	2.277	3.285	1.9	20.4	5 21	15 52.05	-18 50.3	1.894	2.906	0.5	18.4
5 31	15 43.36	-25 54.9	2.274	3.273	3.7	20.5	5 31	15 42.80	-18 41.8	1.905	2.905	4.2	18.7
6 10	15 35.46	-25 30.4	2.300	3.261	6.8	20.7	6 10	15 34.49	-18 35.1	1.944	2.903	8.0	18.9
6 20	15 29.00	-25 5.0	2.351	3.249	9.9	20.9	6 20	15 27.87	-18 32.5	2.007	2.902	11.5	19.1
6 30	15 24.49	-24 42.0	2.424	3.236	12.5	21.0	6 30	15 23.46	-18 36.0	2.092	2.900	14.4	19.3
377670	2005 <i>UM</i> ₂₈₇		5 21.0 349°92	5°3/18.4	17		88003	2000 <i>UV</i> ₃₉		5 21.0 95°63	0°7/20.6	18	
4 21	16 12.00	-11 43.1	1.304	2.214	14.4	19.8	4 21	16 13.25	-18 51.0	2.363	3.246	9.9	19.4
5 1	16 7.25	-10 30.2	1.247	2.208	10.4	19.6	5 1	16 7.30	-18 31.8	2.306	3.259	6.8	19.2
5 11	16 0.25	-9 18.3	1.211	2.204	6.6	19.3	5 11	16 0.00	-18 9.6	2.276	3.272	3.5	19.0
5 21	15 52.01	-8 14.4	1.200	2.200	5.5	19.3	5 21	15 52.04	-17 45.9	2.274	3.285	0.7	18.8
5 31	15 43.81	-7 25.1	1.212	2.197	8.5	19.4	5 31	15 44.20	-17 23.0	2.300	3.298	3.7	19.0
6 10	15 36.89	-6 55.4	1.247	2.195	12.6	19.6	6 10	15 37.20	-17 3.4	2.354	3.311	7.0	19.3
6 20	15 32.17	-6 46.9	1.302	2.193	16.6	19.9	6 20	15 31.63	-16 49.1	2.433	3.323	9.9	19.5
6 30	15 30.21	-6 58.9	1.374	2.193	20.0	20.1	6 30	15 27.88	-16 41.7	2.534	3.335	12.4	19.7
134170	2005 <i>BS</i> ₂₄		5 21.0 43°74	2°4/19.8	18		513667	2011 <i>UQ</i> ₃₄₃		5 21.0 232°89	4°8/17.5	18	
4 21	16 14.13	-14 51.5	1.853	2.746	11.7	20.0	4 21	16 12.14	-4 10.1	2.792	3.664	9.0	22.4
5 1	16 8.23	-14 22.4	1.790	2.747	8.2	19.8	5 1	16 6.45	-3 27.1	2.716	3.650	6.9	22.2
5 11	16 0.59	-13 52.8	1.752	2.748	4.5	19.6	5 11	15 59.58	-2 49.6	2.666	3.636	5.2	22.1
5 21	15 52.02	-13 25.2	1.741	2.749	2.5	19.5	5 21	15 52.05	-2 20.4	2.645	3.622	4.9	22.0
5 31	15 43.48	-13 3.0	1.757	2.750	5.3	19.7	5 31	15 44.48	-2 2.1	2.652	3.607	6.3	22.1
6 10	15 35.95	-12 48.8	1.798	2.751	9.1	19.9	6 10	15 37.49	-1 56.3	2.685	3.591	8.5	22.2
6 20	15 30.16	-12 44.6	1.864	2.752	12.5	20.1	6 20	15 31.60	-2 3.2	2.743	3.575	10.7	22.3
6 30	15 26.59	-12 51.2	1.949	2.753	15.4	20.3	6 30	15 27.22	-2 22.3	2.822	3.558	12.7	22.5
28712	Elizabethcorn		5 21.0 306°68	0°3/20.9	18		299810	2006 <i>SD</i> ₁₂₉		5 21.1 193°31	3°6/18.6	18</	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
108072	Odifreddi		5 21.1 327°28	1°3/21.6 17			519617	2012 <i>UH</i> ₁₈₁		5 21.1 26°40	0°9/20.6 17		
4 21	16 15.84	-23 45.0	1.822	2.706	12.4	20.0	4 21	16 14.56	-18 30.9	1.963	2.852	11.4	21.5
5 1	16 9.63	-23 52.0	1.753	2.703	8.8	19.8	5 1	16 8.55	-18 18.0	1.897	2.852	7.9	21.3
5 11	16 1.42	-23 51.7	1.707	2.701	4.8	19.5	5 11	16 0.81	-18 1.8	1.855	2.852	4.1	21.1
5 21	15 52.08	-23 44.0	1.688	2.699	1.3	19.3	5 21	15 52.13	-17 44.0	1.841	2.852	0.9	20.8
5 31	15 42.69	-23 30.7	1.696	2.697	4.3	19.5	5 31	15 43.46	-17 26.9	1.854	2.852	4.4	21.1
6 10	15 34.36	-23 14.9	1.731	2.696	8.4	19.7	6 10	15 35.75	-17 13.2	1.893	2.852	8.2	21.3
6 20	15 27.93	-23 0.2	1.789	2.694	12.1	19.9	6 20	15 29.73	-17 5.4	1.957	2.853	11.7	21.5
6 30	15 23.97	-22 49.8	1.868	2.693	15.2	20.1	6 30	15 25.89	-17 5.2	2.042	2.853	14.6	21.7
159295	2006 <i>BP</i> ₄₃		5 21.1 155°53	5°8/17.6 18			299344	2005 <i>SX</i> ₁₄₁		5 21.1 120°87	0°7/20.6 17		
4 21	16 14.71	-3 26.3	2.261	3.135	10.7	20.7	4 21	16 13.06	-18 35.3	2.619	3.500	9.2	21.5
5 1	16 8.30	-2 37.7	2.208	3.142	8.2	20.6	5 1	16 7.11	-18 19.5	2.560	3.511	6.3	21.4
5 11	16 0.53	-1 57.0	2.181	3.149	6.3	20.5	5 11	15 59.93	-18 1.0	2.527	3.522	3.2	21.2
5 21	15 52.08	-1 27.7	2.180	3.156	5.9	20.5	5 21	15 52.14	-17 41.3	2.522	3.533	0.7	21.0
5 31	15 43.72	-1 12.5	2.208	3.162	7.4	20.6	5 31	15 44.42	-17 22.3	2.547	3.544	3.5	21.2
6 10	15 36.22	-1 12.8	2.261	3.167	9.8	20.7	6 10	15 37.47	-17 6.0	2.599	3.555	6.5	21.4
6 20	15 30.16	-1 28.1	2.337	3.172	12.2	20.9	6 20	15 31.81	-16 54.3	2.678	3.565	9.2	21.6
6 30	15 25.94	-1 57.2	2.434	3.176	14.4	21.1	6 30	15 27.81	-16 48.7	2.779	3.575	11.5	21.8
488964	2005 <i>UP</i> ₂₆₂		5 21.1 264°22	1°1/21.6 18			500807	2013 <i>GY</i> ₃₄		5 21.1 332°49	0°5/20.8 17		
4 21	16 15.13	-23 14.7	2.386	3.261	10.2	21.6	4 21	16 15.58	-21 19.6	1.216	2.121	15.7	21.0
5 1	16 8.88	-23 30.4	2.302	3.249	7.2	21.4	5 1	16 10.08	-20 43.1	1.153	2.115	11.0	20.7
5 11	16 0.98	-23 40.9	2.244	3.236	4.0	21.2	5 11	16 1.88	-19 56.5	1.111	2.109	5.7	20.4
5 21	15 52.11	-23 46.0	2.213	3.224	1.1	20.9	5 21	15 52.15	-19 3.3	1.092	2.104	0.5	20.0
5 31	15 43.09	-23 46.6	2.211	3.211	3.6	21.1	5 31	15 42.39	-18 9.2	1.098	2.100	5.9	20.4
6 10	15 34.80	-23 44.3	2.238	3.199	7.0	21.3	6 10	15 34.13	-17 20.8	1.127	2.096	11.3	20.7
6 20	15 27.95	-23 41.6	2.289	3.186	10.2	21.5	6 20	15 28.46	-16 43.9	1.177	2.092	16.2	20.9
6 30	15 23.08	-23 41.0	2.364	3.173	12.9	21.6	6 30	15 26.02	-16 21.9	1.244	2.089	20.2	21.2
394623	2007 <i>WO</i> ₅₂		5 21.1 153°58	3°5/18.8 18			300081	2006 <i>UB</i> ₂₁₇		5 21.1 234°52	5°2/17.1 18		
4 21	16 12.70	-8 51.5	2.655	3.535	9.1	21.9	4 21	16 12.17	-3 5.9	2.790	3.660	9.0	21.9
5 1	16 6.81	-8 20.1	2.596	3.542	6.6	21.7	5 1	16 6.51	-2 16.3	2.714	3.645	7.0	21.7
5 11	15 59.75	-7 52.1	2.564	3.548	4.3	21.6	5 11	15 59.66	-1 32.6	2.665	3.630	5.5	21.6
5 21	15 52.10	-7 29.9	2.559	3.554	3.6	21.5	5 21	15 52.14	-0 57.9	2.643	3.614	5.3	21.5
5 31	15 44.52	-7 15.6	2.584	3.559	5.2	21.7	5 31	15 44.58	-0 35.0	2.650	3.598	6.7	21.6
6 10	15 37.64	-7 10.6	2.636	3.564	7.7	21.8	6 10	15 37.60	-0 25.5	2.683	3.582	8.7	21.7
6 20	15 31.97	-7 15.6	2.712	3.569	10.1	22.0	6 20	15 31.72	-0 29.8	2.740	3.564	10.9	21.8
6 30	15 27.89	-7 30.3	2.811	3.573	12.2	22.1	6 30	15 27.34	-0 47.2	2.818	3.547	12.9	22.0
201592	2003 <i>SE</i> ₁₂₉		5 21.1 239°26	2°2/22.2 18			509708	2008 <i>SX</i> ₆₇		5 21.1 252°61	1°9/21.9 18		
4 21	16 16.62	-27 6.8	2.176	3.044	11.3	20.8	4 21	16 17.97	-25 53.0	2.209	3.077	11.1	22.3
5 1	16 10.05	-27 9.7	2.092	3.033	8.2	20.6	5 1	16 11.06	-26 3.1	2.115	3.057	8.1	22.0
5 11	16 1.63	-27 3.1	2.033	3.021	4.8	20.4	5 11	16 2.22	-26 5.2	2.047	3.036	4.7	21.8
5 21	15 52.12	-26 47.0	2.001	3.009	2.2	20.2	5 21	15 52.16	-25 58.7	2.006	3.015	1.9	21.5
5 31	15 42.49	-26 22.5	1.998	2.996	4.1	20.3	5 31	15 41.85	-25 44.4	1.994	2.993	4.1	21.7
6 10	15 33.74	-25 53.0	2.022	2.983	7.6	20.4	6 10	15 32.33	-25 25.0	2.010	2.970	7.7	21.8
6 20	15 26.66	-25 22.3	2.071	2.970	11.0	20.6	6 20	15 24.45	-25 4.0	2.051	2.947	11.2	22.0
6 30	15 21.84	-24 54.5	2.142	2.956	13.9	20.8	6 30	15 18.84	-24 45.2	2.114	2.923	14.2	22.2
471680	2012 <i>TL</i> ₁₉₀		5 21.1 32°85	0°1/21.1 17			207816	2007 <i>TM</i> ₂₅₇		5 21.1 236°81	0°5/21.3 17		
4 21	16 14.12	-22 19.3	1.942	2.828	11.6	21.1	4 21	16 14.94	-22 14.0	2.138	3.019	10.9	21.4
5 1	16 8.25	-21 50.9	1.875	2.828	8.1	20.9	5 1	16 8.80	-22 7.0	2.063	3.013	7.7	21.2
5 11	16 0.65	-21 15.2	1.833	2.829	4.2	20.7	5 11	16 0.95	-21 54.1	2.012	3.007	4.1	21.0
5 21	15 52.12	-20 34.2	1.817	2.829	0.1	20.3	5 21	15 52.15	-21 36.1	1.989	3.001	0.5	20.7
5 31	15 43.65	-19 51.2	1.829	2.830	4.1	20.6	5 31	15 43.29	-21 14.9	1.994	2.995	3.8	20.9
6 10	15 36.18	-19 10.2	1.868	2.830	8.1	20.9	6 10	15 35.31	-20 53.6	2.026	2.988	7.6	21.2
6 20	15 30.45	-18 35.1	1.931	2.831	11.6	21.1	6 20	15 28.94	-20 35.0	2.084	2.981	11.0	21.4
6 30	15 26.94	-18 8.6	2.015	2.831	14.6	21.3	6 30	15 24.68	-20 21.9	2.162	2.975	13.8	21.5
340393	2006 <i>EF</i> ₁₇		5 21.1 12°54	2°0/21.9 17			36452	2000 <i>QE</i> ₅		5 21.1 238°68	0°4/20.8 18		
4 21	16 14.91	-25 12.4	1.484	2.376	14.2	20.4	4 21	16 13.37	-19 47.1	2.833	3.710	8.7	20.3
5 1	16 9.27	-25 18.1	1.425	2.378	10.2	20.2	5 1	16 7.41	-19 27.2	2.744	3.693	6.1	20.1
5 11	16 1.33	-25 13.6	1.387	2.381	5.7	20.0	5 11	16 0.15	-19 3.5	2.681	3.677	3.1	19.9
5 21	15 52.12	-24 59.0	1.374	2.385	2.0	19.7	5 21	15 52.15	-18 37.3	2.648	3.660	0.4	19.6
5 31	15 42.95	-24 36.8	1.387	2.389	4.9	19.9	5 31	15 44.07	-18 10.3	2.644	3.642	3.3	19.8
6 10	15 35.09	-24 11.2	1.424	2.394	9.4	20.2	6 10	15 36.59	-17 45.0	2.669	3.623	6.4	20.0
6 20	15 29.49	-23 46.9	1.484	2.399	13.4	20.4	6 20	15 30.29	-17 23.6	2.720	3.605	9.2	20.2
6 30	15 26.72	-23 28.2	1.563	2.406	16.9	20.7	6 30	15 25.58	-17 8.1	2.794	3.585	11.6	20.3
501845	2014 <i>WF</i> ₁₆₁		5 21.1 282°35	3°5/19.6 17			356799	2011 <i>UV</i> ₃₃₀		5 21.1 190°53	3°2/22.9 18		
4 21	16 16.68	-13 53.1	1.434	2.333	14.1	21.4	4 21	16 15.48	-31 9.2	2.614	3.465	10.2	21.9
5 1	16 10.67	-13 17.9	1.356	2.314	10.0	21.1	5 1	16 9.02	-31 23.6	2.537	3.464	7.6	21.8
5 11	16 2.18	-12 41.9	1.300	2.295	5.7	20.8	5 11	16 1.02	-31 27.9	2.486	3.463	5.0	21.6
5 21	15 52.13	-12 9.0	1.269	2.276	3.6	20.6	5 21	15 52.16	-31 21.5	2.463	3.461	3.3	21.5
5 31	15 41.82	-11 43.6	1.263	2.256	7.0	20.8	5 31	15 43.26	-31 5.0	2.468	3.460	4.1	21.5
6 10	15 32.62	-11 30.1	1.282	2.236	11.7	21.0	6 10	15 35.15	-30 41.0	2.501	3.458	6.6	21.7
6 20	15 25.61	-11 30.9	1.322	2.217	16.2	21.2	6 20	15 28.51	-30 12.9	2.560	3.456	9.3	21.9
6 30	15 21.55	-11 46.9	1.380	2.197	20.0	21.4	6 30	15 23.81	-29 44.5	2.642	3.453	11.7	22.0
373219	2012 <i>FL</i> ₄₀		5 21.1 13°51	3°7/19.3 17			291005	2005 <i>XR</i> ₉₂		5 21.1 282°06	3°3/21.9 16		
4 21	16 14.39	-14 20.6	1.365										

EPHEMERIDES

5 21.1

5 21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
141375	2002 <i>AL</i> ₅₇		5 21.1 228°12	1°9/19.9	18		350763	2002 <i>AW</i> ₇₉		5 21.1 161°18	0°2/21.2	17	
4 21	16 15.98	-15 50.4	2.261	3.143	10.4	20.2	4 21	16 13.86	-21 32.4	2.791	3.665	8.9	22.2
5 1	16 9.43	-15 21.1	2.178	3.130	7.3	20.0	5 1	16 7.69	-21 24.2	2.722	3.670	6.2	22.0
5 11	16 1.26	-14 49.7	2.122	3.116	3.9	19.8	5 11	16 0.27	-21 11.7	2.681	3.675	3.2	21.8
5 21	15 52.16	-14 18.4	2.093	3.102	1.9	19.6	5 21	15 52.21	-20 55.7	2.668	3.680	0.2	21.5
5 31	15 42.98	-13 50.1	2.094	3.087	4.6	19.8	5 31	15 44.19	-20 37.8	2.684	3.684	3.1	21.8
6 10	15 34.57	-13 27.6	2.123	3.071	8.1	19.9	6 10	15 36.87	-20 20.1	2.730	3.688	6.1	22.0
6 20	15 27.64	-13 13.1	2.176	3.055	11.4	20.1	6 20	15 30.79	-20 4.8	2.801	3.691	8.8	22.2
6 30	15 22.70	-13 8.1	2.251	3.038	14.1	20.3	6 30	15 26.35	-19 53.8	2.896	3.694	11.1	22.3
276580	2003 <i>SU</i> ₂₈₉		5 21.1 116°33	4°3/18.6	18		505068	2011 <i>SQ</i> ₁₇₆		5 21.1 199°80	8°7/27.9	18	
4 21	16 13.97	-9 21.8	2.041	2.929	11.1	20.5	4 21	16 24.02	-53 56.0	3.026	3.738	12.1	21.8
5 1	16 7.93	-8 31.6	1.989	2.939	8.0	20.3	5 1	16 15.38	-54 36.4	2.944	3.734	10.8	21.7
5 11	16 0.41	-7 45.1	1.963	2.948	5.3	20.1	5 11	16 4.47	-54 56.6	2.884	3.729	9.7	21.6
5 21	15 52.16	-7 7 6.1	1.963	2.958	4.4	20.1	5 21	15 52.24	-54 53.5	2.847	3.724	8.9	21.5
5 31	15 44.04	-6 38.0	1.991	2.967	6.5	20.2	5 31	15 39.94	-54 26.0	2.835	3.719	8.8	21.5
6 10	15 36.87	-6 22.9	2.045	2.976	9.4	20.4	6 10	15 28.83	-53 36.6	2.846	3.713	9.3	21.5
6 20	15 31.25	-6 21.5	2.122	2.985	12.2	20.6	6 20	15 19.87	-52 30.5	2.882	3.706	10.4	21.6
6 30	15 27.62	-6 33.4	2.219	2.993	14.7	20.8	6 30	15 13.65	-51 13.9	2.939	3.699	11.8	21.7
174002	2001 <i>XV</i> ₂₄₆		5 21.1 84°75	0°2/20.9	18		479164	2013 <i>CM</i> ₂₁		5 21.1 175°68	4°0/23.5	16	
4 21	16 15.78	-19 19.0	2.257	3.137	10.4	20.5	4 21	16 15.46	-33 46.4	2.504	3.349	10.8	21.5
5 1	16 9.12	-19 25.5	2.206	3.157	7.2	20.3	5 1	16 9.09	-33 57.4	2.430	3.349	8.3	21.3
5 11	16 1.01	-19 28.9	2.180	3.176	3.7	20.2	5 11	16 1.10	-33 56.2	2.381	3.350	5.8	21.2
5 21	15 52.17	-19 29.9	2.183	3.195	0.2	19.9	5 21	15 52.22	-33 41.8	2.358	3.351	4.1	21.1
5 31	15 43.46	-19 29.9	2.215	3.214	3.7	20.2	5 31	15 43.34	-33 15.3	2.363	3.351	4.7	21.1
6 10	15 35.69	-19 30.5	2.274	3.233	7.1	20.5	6 10	15 35.33	-32 39.8	2.396	3.351	7.0	21.2
6 20	15 29.48	-19 33.7	2.359	3.251	10.1	20.7	6 20	15 28.90	-31 59.2	2.455	3.351	9.6	21.4
6 30	15 25.23	-19 41.1	2.466	3.270	12.6	20.9	6 30	15 24.51	-31 18.0	2.536	3.351	12.0	21.6
33718	1999 <i>LZ</i> ₂₆		5 21.1 302°38	7°7/18.2	18		16423	1988 <i>BZ</i> ₃		5 21.1 315°00	1°5/21.8	18	
4 21	16 15.86	-1 52.7	1.608	2.492	13.8	16.9	4 21	16 14.76	-25 37.3	1.203	2.104	16.1	16.8
5 1	16 9.86	-1 25.0	1.533	2.471	10.8	16.7	5 1	16 9.81	-25 9.0	1.127	2.085	11.6	16.5
5 11	16 1.69	-1 9.9	1.480	2.451	8.4	16.5	5 11	16 1.93	-24 24.6	1.071	2.067	6.5	16.1
5 21	15 52.18	-1 12.1	1.451	2.431	7.8	16.4	5 21	15 52.23	-23 25.6	1.038	2.050	1.6	15.7
5 31	15 42.46	-1 34.9	1.448	2.411	9.7	16.5	5 31	15 42.26	-22 16.9	1.029	2.033	5.8	16.0
6 10	15 33.68	-2 18.9	1.468	2.391	12.9	16.6	6 10	15 33.72	-21 6.8	1.043	2.016	11.4	16.2
6 20	15 26.80	-3 22.4	1.510	2.372	16.3	16.7	6 20	15 27.85	-20 3.7	1.077	2.000	16.6	16.5
6 30	15 22.49	-4 42.2	1.570	2.353	19.4	16.9	6 30	15 25.44	-19 14.2	1.128	1.986	21.0	16.7
130435	2000 <i>QB</i> ₁₂		5 21.1 187°45	3°7/19.3	16		65749	1993 <i>TT</i> ₃₈		5 21.1 306°82	5°0/19.2	18	
4 21	16 18.10	-12 2.0	1.822	2.709	12.2	19.7	4 21	16 15.34	-11 26.0	1.248	2.155	15.2	19.0
5 1	16 11.06	-11 21.4	1.757	2.709	8.7	19.5	5 1	16 10.01	-10 46.7	1.174	2.134	11.0	18.7
5 11	16 2.13	-10 42.2	1.717	2.708	5.2	19.3	5 11	16 1.98	-10 9.7	1.120	2.114	6.8	18.4
5 21	15 52.19	-10 7.7	1.704	2.706	3.7	19.2	5 21	15 52.23	-9 40.1	1.090	2.094	5.1	18.2
5 31	15 42.28	-9 41.7	1.719	2.704	6.3	19.3	5 31	15 42.17	-9 23.2	1.084	2.074	8.4	18.3
6 10	15 33.43	-9 27.0	1.759	2.701	10.0	19.5	6 10	15 33.29	-9 23.1	1.100	2.055	13.2	18.5
6 20	15 26.43	-9 25.2	1.824	2.697	13.5	19.7	6 20	15 26.81	-9 41.2	1.136	2.036	17.9	18.8
6 30	15 21.81	-9 36.5	1.908	2.693	16.4	19.9	6 30	15 23.51	-10 17.3	1.189	2.018	21.9	19.0
489475	2007 <i>ER</i> ₄		5 21.1 181°04	3°9/24.1	18		359677	2011 <i>SA</i> ₁₂₃		5 21.1 227°97	1°5/21.5	17	
4 21	16 15.58	-36 44.7	3.331	4.151	9.0	23.0	4 21	16 20.99	-22 59.3	1.467	2.353	14.6	20.8
5 1	16 8.86	-36 52.8	3.251	4.152	7.1	22.9	5 1	16 13.75	-23 22.2	1.396	2.348	10.5	20.5
5 11	16 0.87	-36 49.6	3.197	4.152	5.2	22.7	5 11	16 3.82	-23 38.0	1.349	2.343	5.7	20.3
5 21	15 52.19	-36 34.4	3.171	4.152	3.9	22.7	5 21	15 52.25	-23 45.4	1.326	2.337	1.6	20.0
5 31	15 43.51	-36 8.0	3.174	4.152	4.3	22.7	5 31	15 40.50	-23 45.3	1.330	2.332	5.2	20.2
6 10	15 35.54	-35 32.8	3.206	4.150	5.9	22.8	6 10	15 30.07	-23 40.8	1.360	2.325	10.1	20.5
6 20	15 28.82	-34 51.8	3.265	4.149	7.8	22.9	6 20	15 22.10	-23 36.2	1.412	2.319	14.5	20.7
6 30	15 23.77	-34 8.7	3.347	4.147	9.7	23.0	6 30	15 17.31	-23 35.5	1.483	2.312	18.3	20.9
12391	<i>Ecoadachi</i>		5 21.1 257°91	2°9/19.7	18		303778	2005 <i>QR</i> ₁₈₈		5 21.1 212°12	1°6/22.1	18	
4 21	16 15.47	-12 17.8	2.154	3.038	10.7	17.7	4 21	16 14.01	-26 30.6	2.691	3.556	9.5	21.8
5 1	16 9.19	-12 0.1	2.069	3.020	7.6	17.4	5 1	16 7.94	-26 24.5	2.611	3.551	6.8	21.6
5 11	16 1.20	-11 44.0	2.010	3.002	4.4	17.2	5 11	16 0.48	-26 10.7	2.556	3.545	3.9	21.4
5 21	15 52.19	-11 31.5	1.979	2.983	2.9	17.1	5 21	15 52.25	-25 49.7	2.530	3.539	1.6	21.3
5 31	15 43.03	-11 24.9	1.976	2.964	5.3	17.2	5 31	15 43.99	-25 22.9	2.534	3.533	3.3	21.4
6 10	15 34.61	-11 26.3	1.999	2.945	8.8	17.3	6 10	15 36.45	-24 53.0	2.565	3.526	6.3	21.6
6 20	15 27.68	-11 36.9	2.048	2.925	12.1	17.5	6 20	15 30.24	-24 23.0	2.623	3.519	9.1	21.7
6 30	15 22.79	-11 57.2	2.117	2.904	14.9	17.7	6 30	15 25.79	-23 55.8	2.704	3.512	11.5	21.9
519946	2013 <i>RC</i> ₁₀₇		5 21.1 184°39	6°4/17.3	17		428325	2007 <i>HL</i> ₄₅		5 21.1 30°12	3°2/19.6	17	
4 21	16 15.07	-2 0.2	2.220	3.091	11.0	21.8	4 21	16 13.61	-15 6.9	1.340	2.247	14.3	20.6
5 1	16 8.66	-1 9.0	2.161	3.091	8.6	21.6	5 1	16 8.26	-14 19.6	1.295	2.257	10.0	20.4
5 11	16 0.81	-0 26.5	2.127	3.091	6.8	21.5	5 11	16 0.79	-13 31.5	1.272	2.269	5.5	20.1
5 21	15 52.20	+0 3.4	2.120	3.090	6.5	21.5	5 21	15 52.25	-12 47.3	1.273	2.281	3.3	20.0
5 31	15 43.63	+0 17.6	2.141	3.089	8.0	21.6	5 31	15 43.92	-12 12.0	1.299	2.294	6.6	20.3
6 10	15 35.91	+0 14.8	2.187	3.087	10.4	21.7	6 10	15 36.99	-11 49.5	1.349	2.307	10.9	20.5
6 20	15 29.63	-0 4.3	2.256	3.084	12.8	21.9	6 20	15 32.27	-11 41.8	1.420	2.321	14.9	20.8
6 30	15 25.24	-0 38.3	2.344	3.081	15.0	22.0	6 30	15 30.23	-11 49.0	1.509	2.336	18.1	21.1
377828	2006 <i>BC</i> ₁₀₄		5 21.1 203°71	1°6/20.3	17		316413	2010 <i>TV</i> ₁₀₀		5 21.1 22°46	0°6		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
352614	2008 <i>EM</i> ₁₄₆		5 21.1 116°32	3°2/18.9	18		93162	2000 <i>SJ</i> ₈₈		5 21.1 148°79	1°0/21.5	18	
4 21	16 12.23	-10 30.6	2.532	3.416	9.3	20.8	4 21	16 19.33	-22 24.5	2.086	2.960	11.5	19.1
5 1	16 6.56	-9 55.6	2.478	3.427	6.7	20.6	5 1	16 11.91	-22 47.7	2.020	2.967	8.1	18.9
5 11	15 59.70	-9 23.1	2.449	3.437	4.2	20.5	5 11	16 2.64	-23 5.7	1.980	2.973	4.4	18.6
5 21	15 52.25	-8 55.5	2.449	3.447	3.3	20.5	5 21	15 52.36	-23 17.8	1.968	2.980	1.1	18.4
5 31	15 44.89	-8 35.4	2.477	3.457	5.1	20.6	5 31	15 42.07	-23 24.7	1.986	2.985	3.9	18.6
6 10	15 38.28	-8 24.4	2.532	3.467	7.7	20.8	6 10	15 32.78	-23 28.4	2.030	2.991	7.7	18.9
6 20	15 32.93	-8 23.2	2.613	3.477	10.2	20.9	6 20	15 25.26	-23 31.4	2.101	2.996	11.0	19.1
6 30	15 29.21	-8 32.0	2.714	3.486	12.3	21.1	6 30	15 20.04	-23 36.5	2.193	3.000	13.8	19.3
207350	2005 <i>JH</i> ₅₉		5 21.1 337°38	1°7/21.8	17		227414	2005 <i>US</i> ₅₀₁		5 21.1 62°93	8°3/15.2	18	
4 21	16 13.83	-24 40.7	1.588	2.479	13.5	20.2	4 21	16 16.15	-5 23.3	1.531	2.422	13.9	19.6
5 1	16 8.58	-24 44.2	1.515	2.469	9.7	19.9	5 1	16 9.56	-2 45.2	1.506	2.448	10.6	19.5
5 11	16 1.09	-24 38.5	1.465	2.459	5.4	19.6	5 11	16 1.29	-0 17.8	1.506	2.475	8.5	19.4
5 21	15 52.26	-24 23.7	1.439	2.450	1.7	19.4	5 21	15 52.35	+1 48.7	1.534	2.501	8.7	19.5
5 31	15 43.31	-24 2.0	1.439	2.441	4.7	19.5	5 31	15 43.83	+3 26.7	1.587	2.528	10.9	19.7
6 10	15 35.48	-23 37.3	1.464	2.434	9.2	19.8	6 10	15 36.70	+4 33.1	1.664	2.554	13.6	19.9
6 20	15 29.73	-23 13.9	1.512	2.427	13.3	20.0	6 20	15 31.57	+5 8.9	1.761	2.580	16.2	20.2
6 30	15 26.69	-22 56.0	1.579	2.420	16.8	20.2	6 30	15 28.79	+5 17.7	1.875	2.607	18.4	20.4
200771	2001 <i>XK</i> ₁₉		5 21.1 133°71	1°0/21.4	18		179410	2001 <i>YO</i> ₁₅₆		5 21.1 85°35	1°0/21.5	18	
4 21	16 21.01	-22 15.4	1.526	2.411	14.2	19.6	4 21	16 18.06	-21 59.3	2.287	3.160	10.6	20.2
5 1	16 13.48	-22 27.7	1.467	2.419	10.0	19.4	5 1	16 10.82	-22 29.9	2.233	3.179	7.5	20.0
5 11	16 3.55	-22 32.9	1.432	2.427	5.3	19.1	5 11	16 2.00	-22 56.0	2.205	3.198	4.0	19.8
5 21	15 52.31	-22 30.8	1.423	2.434	1.0	18.8	5 21	15 52.36	-23 16.9	2.205	3.216	1.0	19.6
5 31	15 41.12	-22 23.3	1.440	2.441	4.9	19.1	5 31	15 42.79	-23 33.0	2.234	3.234	3.6	19.8
6 10	15 31.34	-22 13.6	1.483	2.448	9.5	19.4	6 10	15 34.18	-23 45.7	2.292	3.252	6.9	20.1
6 20	15 23.95	-22 5.7	1.549	2.454	13.7	19.7	6 20	15 27.17	-23 57.1	2.376	3.270	9.9	20.3
6 30	15 19.51	-22 3.2	1.635	2.459	17.1	19.9	6 30	15 22.23	-24 9.2	2.482	3.288	12.5	20.5
83810	2001 <i>TH</i> ₂₃₃		5 21.1 272°49	5°5/17.9	18		180157	2003 <i>GU</i> ₅₀		5 21.1 323°01	5°4/17.9	18	
4 21	16 12.69	-5 32.7	2.124	3.007	10.9	19.3	4 21	16 11.91	-5 42.6	2.090	2.976	10.9	20.0
5 1	16 7.18	-4 45.7	2.055	2.997	8.2	19.1	5 1	16 6.64	-4 57.1	2.027	2.971	8.2	19.8
5 11	16 0.16	-4 4.8	2.011	2.987	6.0	19.0	5 11	15 59.89	-4 18.0	1.989	2.966	6.0	19.6
5 21	15 52.29	-3 33.7	1.993	2.977	5.6	18.9	5 21	15 52.34	-3 48.9	1.977	2.962	5.5	19.6
5 31	15 44.38	-3 15.9	2.002	2.967	7.3	19.0	5 31	15 44.79	-3 33.2	1.992	2.958	7.3	19.7
6 10	15 37.25	-3 13.2	2.037	2.956	10.1	19.1	6 10	15 38.05	-3 32.4	2.031	2.953	10.0	19.8
6 20	15 31.56	-3 25.9	2.094	2.946	12.8	19.3	6 20	15 32.76	-3 46.7	2.094	2.949	12.7	20.0
6 30	15 27.78	-3 53.1	2.171	2.935	15.3	19.5	6 30	15 29.36	-4 15.1	2.176	2.946	15.1	20.2
60127	1999 <i>TQ</i> ₂₅₄		5 21.1 238°02	4°6/18.6	18		427984	2006 <i>AU</i> ₂₆		5 21.1 208°46	1°8/20.1	18	
4 21	16 12.97	-5 21.3	2.501	3.377	9.7	19.0	4 21	16 16.26	-15 45.2	2.269	3.150	10.4	22.0
5 1	16 7.19	-5 0.2	2.432	3.371	7.3	18.8	5 1	16 9.64	-15 22.2	2.192	3.144	7.2	21.8
5 11	16 0.10	-4 45.3	2.388	3.365	5.2	18.7	5 11	16 1.44	-14 57.8	2.142	3.137	3.9	21.6
5 21	15 52.29	-4 39.0	2.372	3.358	4.6	18.6	5 21	15 52.36	-14 33.9	2.120	3.129	1.8	21.4
5 31	15 44.46	-4 43.2	2.384	3.352	6.1	18.7	5 31	15 43.23	-14 12.8	2.127	3.121	4.5	21.6
6 10	15 37.31	-4 58.8	2.423	3.345	8.6	18.8	6 10	15 34.91	-13 57.2	2.162	3.112	7.9	21.8
6 20	15 31.41	-5 25.7	2.486	3.338	11.0	19.0	6 20	15 28.07	-13 48.9	2.222	3.103	11.1	22.0
6 30	15 27.18	-6 3.0	2.571	3.331	13.2	19.1	6 30	15 23.22	-13 49.2	2.304	3.092	13.8	22.2
434149	2002 <i>RA</i> ₁₈₀		5 21.1 297°81	3°1/19.4	16		249506	2010 <i>AK</i> ₃₄		5 21.1 123°22	0°8/20.6	17	
4 21	16 13.29	-13 57.3	1.816	2.711	11.8	21.6	4 21	16 15.84	-19 10.2	2.063	2.947	11.1	21.4
5 1	16 7.92	-13 12.8	1.735	2.692	8.4	21.3	5 1	16 9.33	-18 44.3	2.006	2.959	7.7	21.2
5 11	16 0.67	-12 27.1	1.679	2.673	4.8	21.1	5 11	16 1.24	-18 14.2	1.974	2.970	3.9	21.0
5 21	15 52.30	-11 43.7	1.649	2.654	3.2	20.9	5 21	15 52.36	-17 42.2	1.969	2.981	0.8	20.8
5 31	15 43.78	-11 6.8	1.646	2.635	6.0	21.1	5 31	15 43.60	-17 11.1	1.993	2.991	4.2	21.1
6 10	15 36.15	-10 40.3	1.668	2.617	9.9	21.2	6 10	15 35.85	-16 44.1	2.044	3.002	7.8	21.3
6 20	15 30.21	-10 26.6	1.713	2.598	13.6	21.4	6 20	15 29.77	-16 23.7	2.120	3.011	11.1	21.5
6 30	15 26.55	-10 26.8	1.777	2.580	16.7	21.6	6 30	15 25.79	-16 11.8	2.218	3.021	13.8	21.7
105575	2000 <i>RJ</i> ₇₁		5 21.1 238°94	3°3/19.4	17		431404	2007 <i>GL</i> ₄₂		5 21.1 254°00	1°0/21.5	17	
4 21	16 17.36	-14 14.4	1.724	2.614	12.6	20.6	4 21	16 16.78	-23 13.8	1.790	2.673	12.6	21.2
5 1	16 10.80	-13 21.8	1.646	2.601	8.9	20.4	5 1	16 10.42	-23 14.9	1.718	2.669	8.9	21.0
5 11	16 2.17	-12 26.9	1.593	2.587	5.1	20.1	5 11	16 1.99	-23 8.6	1.671	2.665	4.8	20.8
5 21	15 52.32	-11 34.0	1.567	2.572	3.4	20.0	5 21	15 52.38	-22 55.4	1.650	2.661	1.0	20.5
5 31	15 42.35	-10 47.8	1.568	2.557	6.4	20.1	5 31	15 42.71	-22 37.1	1.656	2.657	4.4	20.7
6 10	15 33.41	-10 12.8	1.595	2.541	10.5	20.3	6 10	15 34.10	-22 17.1	1.688	2.653	8.6	20.9
6 20	15 26.37	-9 51.9	1.645	2.525	14.3	20.5	6 20	15 27.44	-21 59.1	1.744	2.648	12.4	21.2
6 30	15 21.85	-9 46.5	1.714	2.508	17.6	20.7	6 30	15 23.31	-21 46.6	1.821	2.644	15.6	21.4
417508	2006 <i>SV</i> ₂₂₇		5 21.1 176°38	1°1/21.7	17		504658	2009 <i>AH</i> ₂₅		5 21.1 194°72	4°5/18.7	18	
4 21	16 18.34	-24 39.6	1.922	2.798	12.2	22.0	4 21	16 14.46	-7 4.8	2.200	3.081	10.6	21.6
5 1	16 11.30	-24 22.1	1.853	2.800	8.7	21.8	5 1	16 8.35	-6 36.4	2.136	3.080	7.9	21.4
5 11	16 2.33	-23 55.2	1.809	2.802	4.7	21.5	5 11	16 0.76	-6 13.5	2.097	3.079	5.4	21.3
5 21	15 52.33	-23 20.2	1.792	2.803	1.1	21.3	5 21	15 52.38	-5 59.0	2.086	3.077	4.6	21.2
5 31	15 42.37	-22 39.7	1.803	2.803	4.2	21.5	5 31	15 44.01	-5 55.1	2.102	3.075	6.4	21.3
6 10	15 33.53	-21 58.1	1.841	2.803	8.2	21.7	6 10	15 36.45	-6 3.3	2.144	3.073	9.2	21.5
6 20	15 26.59	-21 19.7	1.904	2.803	11.8	22.0	6 20	15 30.34	-6 23.6	2.211	3.070	11.9	21.7
6 30	15 22.08	-20 48.4	1.988	2.801	14.9	22.2	6 30	15 26.13	-6 55.3	2.298	3.067	14.4	21.9
67770	2000 <i>UD</i> ₇₂		5 21.1 130°41	1°4/21.7	18		397427	2007 <i>BK</i> ₁₆		5 21.1 338°43	7°		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
424340	2007 <i>UA</i> ₁₂₁		5 21.1 226°33	0°8/21.4	17		179226	2001 <i>UX</i> ₁₀		5 21.1 178°96	1°5/20.1	18	
4 21	16 20.12	-22 37.1	1.844	2.722	12.5	22.6	4 21	16 12.98	-16 37.8	2.688	3.569	9.0	21.0
5 1	16 12.80	-22 37.6	1.762	2.711	8.9	22.4	5 1	16 7.16	-16 4.8	2.618	3.570	6.2	20.8
5 11	16 3.28	-22 31.0	1.705	2.699	4.8	22.1	5 11	16 0.12	-15 29.7	2.576	3.571	3.3	20.6
5 21	15 52.42	-22 17.6	1.675	2.686	0.8	21.8	5 21	15 52.44	-14 54.7	2.562	3.571	1.5	20.5
5 31	15 41.38	-21 59.0	1.672	2.673	4.5	22.0	5 31	15 44.80	-14 22.3	2.578	3.571	3.8	20.7
6 10	15 31.36	-21 38.6	1.697	2.659	8.8	22.3	6 10	15 37.85	-13 54.8	2.622	3.571	6.7	20.9
6 20	15 23.30	-21 20.3	1.746	2.644	12.7	22.5	6 20	15 32.13	-13 34.1	2.691	3.570	9.4	21.0
6 30	15 17.86	-21 7.6	1.816	2.628	16.1	22.7	6 30	15 28.02	-13 21.6	2.783	3.569	11.7	21.2
316706	1996 <i>XA</i> ₂₀		5 21.1 163°23	1°6/20.3	17		306766	2001 <i>AW</i> ₂₅		5 21.1 188°59	5°6/25.0	18	
4 21	16 18.45	-17 2.6	1.873	2.758	12.0	21.7	4 21	16 19.58	-43 15.2	3.433	4.212	9.6	21.6
5 1	16 11.33	-16 36.6	1.811	2.764	8.4	21.5	5 1	16 11.90	-43 53.1	3.351	4.211	8.0	21.5
5 11	16 2.36	-16 7.8	1.773	2.769	4.4	21.2	5 11	16 2.65	-44 17.6	3.294	4.209	6.6	21.4
5 21	15 52.42	-15 38.6	1.763	2.773	1.7	21.1	5 21	15 52.47	-44 26.8	3.263	4.207	5.7	21.3
5 31	15 42.55	-15 12.0	1.781	2.777	4.9	21.3	5 31	15 42.17	-44 20.2	3.261	4.204	5.8	21.3
6 10	15 33.79	-14 51.3	1.827	2.780	8.8	21.5	6 10	15 32.59	-43 59.7	3.287	4.200	6.8	21.4
6 20	15 26.88	-14 38.9	1.896	2.783	12.4	21.8	6 20	15 24.40	-43 28.4	3.338	4.196	8.3	21.5
6 30	15 22.33	-14 36.4	1.986	2.785	15.4	22.0	6 30	15 18.11	-42 50.6	3.413	4.192	9.9	21.6
7177	1990 <i>TF</i>		5 21.1 247°10	6°5/24.4	18		125880	2001 <i>XF</i> ₂₀₁		5 21.1 176°96	1°9/20.3	18	
4 21	16 20.10	-39 17.0	2.189	3.011	12.9	18.0	4 21	16 16.21	-15 54.5	1.813	2.703	12.1	20.4
5 1	16 12.86	-39 45.6	2.100	2.997	10.5	17.8	5 1	16 9.88	-15 35.7	1.748	2.704	8.4	20.2
5 11	16 3.35	-39 57.0	2.034	2.982	8.1	17.6	5 11	16 1.68	-15 15.5	1.708	2.704	4.5	19.9
5 21	15 52.43	-39 48.3	1.993	2.966	6.6	17.5	5 21	15 52.46	-14 56.3	1.695	2.704	2.0	19.7
5 31	15 41.30	-39 19.1	1.980	2.951	6.9	17.4	5 31	15 43.25	-14 40.7	1.709	2.705	5.1	19.9
6 10	15 31.21	-38 32.8	1.992	2.934	9.0	17.5	6 10	15 35.08	-14 31.4	1.749	2.704	9.0	20.2
6 20	15 23.13	-37 35.2	2.029	2.918	11.6	17.7	6 20	15 28.73	-14 30.5	1.813	2.704	12.6	20.4
6 30	15 17.75	-36 33.0	2.088	2.901	14.2	17.8	6 30	15 24.72	-14 39.0	1.897	2.704	15.7	20.6
261893	2006 <i>HG</i> ₄₆		5 21.1 4°07	6°6/18.9	17		312698	2010 <i>OL</i> ₂₈		5 21.1 308°77	6°2/23.1	18	
4 21	16 12.88	- 9 10.1	0.992	1.910	17.0	19.5	4 21	16 19.12	-35 27.6	2.071	2.913	12.8	20.4
5 1	16 8.41	- 8 24.8	0.944	1.909	12.5	19.2	5 1	16 12.38	-36 33.3	1.983	2.895	10.2	20.2
5 11	16 1.18	- 7 47.5	0.917	1.909	8.2	19.0	5 11	16 3.24	-37 26.6	1.918	2.877	7.7	20.0
5 21	15 52.41	- 7 24.6	0.910	1.910	6.7	18.9	5 21	15 52.48	-38 3.4	1.880	2.860	6.2	19.8
5 31	15 43.71	- 7 21.5	0.924	1.913	9.8	19.1	5 31	15 41.28	-38 21.7	1.868	2.843	6.9	19.8
6 10	15 36.62	- 7 40.3	0.959	1.917	14.3	19.3	6 10	15 30.93	-38 22.8	1.882	2.825	9.3	19.9
6 20	15 32.22	- 8 19.9	1.013	1.922	18.7	19.6	6 20	15 22.52	-38 10.9	1.919	2.809	12.2	20.1
6 30	15 31.11	- 9 17.1	1.081	1.929	22.4	19.9	6 30	15 16.85	-37 51.6	1.978	2.792	14.9	20.2
351946	2006 <i>TO</i> ₈₀		5 21.1 263°52	1°4/21.9	18		122467	2000 <i>QC</i> ₁₅₁		5 21.1 273°06	3°0/22.5	18	
4 21	16 14.51	-25 46.2	2.287	3.159	10.6	21.2	4 21	16 18.66	-28 50.2	1.976	2.842	12.4	20.1
5 1	16 8.58	-25 29.7	2.199	3.144	7.7	20.9	5 1	16 11.93	-28 58.4	1.877	2.815	9.2	19.8
5 11	16 0.99	-25 4.2	2.137	3.129	4.3	20.7	5 11	16 2.94	-28 55.2	1.802	2.787	5.7	19.6
5 21	15 52.43	-24 30.6	2.103	3.113	1.4	20.5	5 21	15 52.48	-28 39.3	1.754	2.759	3.1	19.3
5 31	15 43.77	-23 51.0	2.096	3.097	3.7	20.6	5 31	15 41.66	-28 11.5	1.733	2.730	4.8	19.4
6 10	15 35.92	-23 8.9	2.118	3.081	7.2	20.8	6 10	15 31.69	-27 35.3	1.739	2.701	8.6	19.5
6 20	15 29.58	-22 28.3	2.165	3.065	10.5	21.0	6 20	15 23.59	-26 55.5	1.769	2.671	12.4	19.7
6 30	15 25.28	-21 52.7	2.234	3.048	13.4	21.1	6 30	15 18.08	-26 17.7	1.821	2.641	15.8	19.9
148420	2000 <i>WZ</i> ₉₀		5 21.1 168°80	0°0/21.1	18		313011	1999 <i>VA</i> ₁₀₉		5 21.1 244°13	0°2/21.3	18	
4 21	16 14.20	-20 16.6	2.744	3.619	9.0	20.8	4 21	16 12.96	-22 21.8	2.729	3.604	9.0	21.3
5 1	16 8.03	-20 17.0	2.673	3.622	6.3	20.6	5 1	16 7.25	-22 1.2	2.643	3.591	6.4	21.1
5 11	16 0.57	-20 14.0	2.630	3.624	3.2	20.4	5 11	16 0.23	-21 35.0	2.583	3.577	3.3	20.9
5 21	15 52.43	-20 8.4	2.615	3.627	0.0	20.1	5 21	15 52.45	-21 4.4	2.552	3.564	0.3	20.6
5 31	15 44.28	-20 1.3	2.629	3.629	3.2	20.4	5 31	15 44.62	-20 31.5	2.550	3.550	3.2	20.8
6 10	15 36.82	-19 54.6	2.672	3.630	6.2	20.6	6 10	15 37.43	-19 58.9	2.576	3.535	6.3	21.0
6 20	15 30.61	-19 50.1	2.742	3.632	8.9	20.8	6 20	15 31.47	-19 29.3	2.628	3.520	9.2	21.1
6 30	15 26.06	-19 49.4	2.834	3.633	11.3	21.0	6 30	15 27.17	-19 5.0	2.704	3.505	11.7	21.3
50526	2000 <i>ET</i> ₅		5 21.1 263°60	1°7/20.3	18		458860	2011 <i>UA</i> ₁₀₀		5 21.1 137°86	0°1/21.1	16	
4 21	16 17.26	-17 21.5	1.770	2.659	12.4	20.7	4 21	16 19.76	-21 51.5	1.699	2.582	13.2	22.2
5 1	16 10.86	-16 53.0	1.683	2.638	8.7	20.4	5 1	16 12.35	-21 20.7	1.643	2.595	9.2	22.0
5 11	16 2.32	-16 20.6	1.621	2.617	4.6	20.1	5 11	16 2.92	-20 42.0	1.610	2.606	4.7	21.7
5 21	15 52.45	-15 46.5	1.585	2.596	1.7	19.9	5 21	15 52.49	-19 57.8	1.605	2.617	0.1	21.4
5 31	15 42.34	-15 14.2	1.577	2.573	5.3	20.1	5 31	15 42.23	-19 12.0	1.627	2.627	4.6	21.8
6 10	15 33.15	-14 47.7	1.595	2.551	9.7	20.3	6 10	15 33.30	-18 29.4	1.675	2.636	8.9	22.0
6 20	15 25.83	-14 30.3	1.636	2.528	13.8	20.5	6 20	15 26.49	-17 54.1	1.748	2.645	12.8	22.3
6 30	15 21.04	-14 24.4	1.697	2.504	17.2	20.7	6 30	15 22.29	-17 29.2	1.841	2.653	15.9	22.5
387850	2004 <i>PS</i> ₁₀		5 21.1 263°89	6°2/24.3	18		20521	1999 <i>RM</i> ₃₈		5 21.1 305°13	3°1/19.1	18	
4 21	16 19.74	-37 53.7	1.963	2.798	13.7	21.1	4 21	16 11.74	-13 0.3	2.170	3.061	10.4	17.9
5 1	16 12.77	-38 6.5	1.871	2.779	11.0	20.9	5 1	16 6.55	-12 9.9	2.100	3.054	7.3	17.7
5 11	16 3.37	-38 0.4	1.801	2.759	8.2	20.7	5 11	15 59.89	-11 19.4	2.056	3.048	4.4	17.5
5 21	15 52.46	-37 32.9	1.756	2.739	6.3	20.5	5 21	15 52.45	-10 32.3	2.039	3.041	3.2	17.4
5 31	15 41.33	-36 44.1	1.738	2.718	6.8	20.5	5 31	15 45.00	- 9 52.2	2.049	3.035	5.5	17.5
6 10	15 31.31	-35 38.6	1.745	2.697	9.3	20.6	6 10	15 38.35	- 9 22.2	2.087	3.029	8.6	17.7
6 20	15 23.47	-34 23.4	1.777	2.676	12.5	20.7	6 20	15 33.11	- 9 4.1	2.148	3.023	11.6	17.9
6 30	15 18.50	-33 6.2	1.831	2.655	15.5	20.9	6 30	15 29.74	- 8 58.6	2.229	3.017	14.2	18.0
383923	2008 <i>SE</i> ₁₆₆		5 21.1 255°60	1°5/21.8	14 C		272723	2005 <i>YJ</i> ₆₃					

EPHEMERIDES

5 21.1

5 21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
30463	2000 OE ₁₁		5 21.1 277°20	3°0/22.9 18			329375	2001 WV ₉		5 21.1 258°33	4°0/19.6 18		
4 21	16 14.97	-30 37.6	2.128	2.991	11.7	18.5	4 21	16 17.80	-9 37.9	1.891	2.775	12.0	20.5
5 1	16 9.02	-30 25.3	2.048	2.982	8.7	18.3	5 1	16 11.10	-9 25.2	1.809	2.758	8.7	20.3
5 11	16 1.25	-30 0.0	1.991	2.973	5.5	18.1	5 11	16 2.43	-9 17.0	1.752	2.740	5.4	20.0
5 21	15 52.47	-29 21.8	1.961	2.965	3.1	17.9	5 21	15 52.54	-9 15.8	1.721	2.722	4.0	19.9
5 31	15 43.65	-28 33.1	1.959	2.956	4.4	18.0	5 31	15 42.44	-9 24.0	1.718	2.703	6.4	20.0
6 10	15 35.78	-27 38.0	1.983	2.947	7.6	18.2	6 10	15 33.19	-9 42.9	1.742	2.684	10.0	20.2
6 20	15 29.64	-26 41.6	2.033	2.938	10.9	18.4	6 20	15 25.65	-10 12.9	1.789	2.665	13.6	20.4
6 30	15 25.75	-25 48.8	2.105	2.929	13.8	18.5	6 30	15 20.44	-10 53.8	1.856	2.645	16.7	20.5
327261	2005 SA ₁₂₆		5 21.1 209°02	13°9/22.9 18			182229	2000 YC ₁₂₄		5 21.1 195°61	2°2/22.9 17		
4 21	16 36.92	-44 0.7	1.296	2.112	20.4	20.9	4 21	16 14.69	-30 31.2	2.530	3.386	10.3	19.7
5 1	16 27.07	-46 29.7	1.229	2.108	17.6	20.7	5 1	16 8.49	-29 50.3	2.452	3.385	7.6	19.5
5 11	16 11.88	-48 34.6	1.182	2.103	15.2	20.5	5 11	16 0.87	-28 57.0	2.400	3.383	4.6	19.3
5 21	15 52.64	-50 0.2	1.158	2.097	13.9	20.4	5 21	15 52.52	-27 52.9	2.376	3.382	2.3	19.2
5 31	15 32.06	-50 36.7	1.155	2.090	14.5	20.4	5 31	15 44.27	-26 40.9	2.381	3.380	3.6	19.3
6 10	15 13.50	-50 26.6	1.175	2.083	16.6	20.5	6 10	15 36.91	-25 25.5	2.415	3.377	6.5	19.5
6 20	14 59.55	-49 42.3	1.213	2.075	19.5	20.7	6 20	15 31.03	-24 11.7	2.476	3.375	9.4	19.6
6 30	14 51.49	-48 40.2	1.268	2.067	22.4	20.9	6 30	15 27.04	-23 3.6	2.560	3.373	11.9	19.8
338550	2003 SW ₄₇		5 21.1 273°71	4°3/18.4 18			432983	2012 PL ₁₂		5 21.1 311°29	3°8/22.9 17		
4 21	16 13.99	-11 23.8	1.933	2.824	11.4	20.4	4 21	16 16.19	-30 41.1	1.694	2.565	13.8	20.6
5 1	16 8.35	-10 16.1	1.852	2.805	8.3	20.2	5 1	16 10.29	-30 42.7	1.618	2.556	10.3	20.3
5 11	16 0.94	-9 8.0	1.797	2.785	5.3	19.9	5 11	16 2.09	-30 29.3	1.565	2.548	6.6	20.1
5 21	15 52.49	-8 4.3	1.768	2.765	4.4	19.8	5 21	15 52.54	-30 0.3	1.536	2.539	3.9	19.9
5 31	15 43.92	-7 10.0	1.766	2.745	6.8	19.9	5 31	15 42.90	-29 17.7	1.533	2.531	5.3	20.0
6 10	15 36.19	-6 29.4	1.790	2.725	10.3	20.1	6 10	15 34.44	-28 26.5	1.556	2.523	9.0	20.2
6 20	15 30.05	-6 4.8	1.837	2.704	13.7	20.3	6 20	15 28.12	-27 32.8	1.603	2.515	12.8	20.4
6 30	15 26.06	-5 57.1	1.904	2.684	16.6	20.4	6 30	15 24.59	-26 42.7	1.670	2.508	16.2	20.6
381880	2010 AJ ₆₆		5 21.1 155°34	4°4/18.8 17			61987	2000 RD ₃₁		5 21.1 78°39	3°3/23.3 18		
4 21	16 15.11	-7 54.1	2.154	3.036	10.8	21.2	4 21	16 15.79	-31 38.5	2.206	3.063	11.6	18.5
5 1	16 8.81	-7 18.7	2.096	3.041	7.9	21.0	5 1	16 9.38	-31 32.2	2.149	3.079	8.7	18.3
5 11	16 1.03	-6 48.1	2.063	3.046	5.3	20.8	5 11	16 1.36	-31 13.1	2.117	3.095	5.6	18.1
5 21	15 52.49	-6 25.5	2.058	3.051	4.5	20.8	5 21	15 52.53	-30 41.6	2.111	3.111	3.4	18.0
5 31	15 44.02	-6 13.4	2.081	3.055	6.4	20.9	5 31	15 43.87	-29 59.9	2.132	3.127	4.4	18.1
6 10	15 36.43	-6 13.5	2.130	3.059	9.2	21.1	6 10	15 36.27	-29 12.1	2.182	3.143	7.1	18.3
6 20	15 30.34	-6 26.1	2.203	3.062	12.0	21.3	6 20	15 30.41	-28 22.8	2.256	3.159	10.0	18.5
6 30	15 26.19	-6 50.5	2.296	3.066	14.4	21.4	6 30	15 26.70	-27 36.3	2.353	3.174	12.6	18.7
303868	2005 SJ ₂₈₆		5 21.1 168°29	0°5/20.8 18			452749	2006 BQ ₁₈₆		5 21.1 83°53	1°2/20.7 16		
4 21	16 13.24	-19 6.6	2.736	3.615	8.9	22.1	4 21	16 20.33	-18 40.9	1.327	2.223	15.2	22.1
5 1	16 7.35	-18 51.7	2.667	3.618	6.2	21.9	5 1	16 13.03	-18 21.3	1.284	2.242	10.5	21.9
5 11	16 0.24	-18 33.9	2.625	3.620	3.2	21.7	5 11	16 3.37	-17 57.2	1.264	2.262	5.4	21.6
5 21	15 52.48	-18 14.4	2.611	3.623	0.5	21.5	5 21	15 52.57	-17 31.1	1.269	2.281	1.2	21.4
5 31	15 44.75	-17 54.9	2.626	3.625	3.3	21.7	5 31	15 42.10	-17 6.9	1.300	2.300	5.6	21.7
6 10	15 37.70	-17 37.6	2.670	3.626	6.3	21.9	6 10	15 33.28	-16 48.6	1.355	2.318	10.4	22.0
6 20	15 31.87	-17 24.4	2.740	3.628	9.0	22.1	6 20	15 26.99	-16 39.4	1.432	2.337	14.6	22.3
6 30	15 27.67	-17 16.8	2.833	3.629	11.3	22.3	6 30	15 23.69	-16 40.8	1.528	2.355	18.0	22.6
435892	2009 AE ₈		5 21.1 218°35	2°3/19.9 18			20746	2000 AL ₁₈₆		5 21.2 337°37	8°2/16.7 18		
4 21	16 15.99	-13 19.5	2.347	3.227	10.1	21.3	4 21	16 12.68	-2 12.9	1.603	2.492	13.5	17.7
5 1	16 9.48	-13 6.4	2.269	3.219	7.1	21.1	5 1	16 7.56	-0 59.7	1.546	2.486	10.7	17.5
5 11	16 1.43	-12 54.1	2.218	3.210	4.0	20.9	5 11	16 0.57	+ 0 2.7	1.513	2.480	8.6	17.4
5 21	15 52.51	-12 44.3	2.195	3.201	2.3	20.8	5 21	15 52.55	+ 0 48.1	1.503	2.475	8.4	17.3
5 31	15 43.52	-12 38.9	2.200	3.191	4.7	20.9	5 31	15 44.54	+ 1 11.4	1.518	2.470	10.3	17.4
6 10	15 35.27	-12 39.7	2.234	3.181	7.9	21.1	6 10	15 37.57	+ 1 10.6	1.555	2.466	13.2	17.6
6 20	15 28.43	-12 47.8	2.293	3.170	10.9	21.3	6 20	15 32.41	+ 0 46.8	1.613	2.462	16.1	17.8
6 30	15 23.48	-13 4.0	2.374	3.158	13.6	21.5	6 30	15 29.59	+ 0 2.7	1.688	2.459	18.7	17.9
403787	2011 SE ₁₇₄		5 21.1 199°32	2°2/20.1 16			182832	2002 BO ₃₀		5 21.2 79°92	4°5/23.5 17		
4 21	16 19.06	-16 34.1	1.655	2.544	13.1	22.3	4 21	16 18.97	-33 40.3	2.302	3.145	11.7	20.6
5 1	16 12.04	-15 56.7	1.587	2.542	9.2	22.0	5 1	16 11.64	-34 15.2	2.250	3.168	8.9	20.5
5 11	16 2.89	-15 16.1	1.543	2.538	4.9	21.8	5 11	16 2.56	-34 37.1	2.222	3.190	6.3	20.3
5 21	15 52.53	-14 35.3	1.525	2.534	2.2	21.6	5 21	15 52.58	-34 44.6	2.222	3.211	4.5	20.3
5 31	15 42.17	-13 58.5	1.535	2.530	5.7	21.8	5 31	15 42.69	-34 38.2	2.249	3.233	5.2	20.3
6 10	15 32.98	-13 29.7	1.570	2.524	10.0	22.0	6 10	15 33.89	-34 20.8	2.304	3.255	7.4	20.5
6 20	15 25.85	-13 12.1	1.629	2.518	14.0	22.3	6 20	15 26.88	-33 56.5	2.383	3.276	10.0	20.7
6 30	15 21.35	-13 7.3	1.707	2.511	17.3	22.5	6 30	15 22.15	-33 30.0	2.485	3.297	12.3	20.9
313745	2003 UJ ₂₄₃		5 21.1 110°84	0°0/13.1 17			508080	2015 DT ₅₂		5 21.2 308°69	9°6/15.7 17		
4 21	16 19.72	-20 48.0	1.630	2.516	13.4	20.9	4 21	16 13.15	+ 0 38.2	1.568	2.451	14.1	20.3
5 1	16 12.40	-20 40.7	1.578	2.531	9.4	20.7	5 1	16 8.04	+ 1 58.2	1.501	2.432	11.6	20.1
5 11	16 3.00	-20 27.5	1.549	2.545	4.8	20.5	5 11	16 0.90	+ 3 5.6	1.456	2.413	9.9	20.0
5 21	15 52.53	-20 9.7	1.547	2.559	0.1	20.1	5 21	15 52.56	+ 3 53.1	1.435	2.395	9.9	19.9
5 31	15 42.24	-19 49.8	1.572	2.573	4.7	20.5	5 31	15 44.07	+ 4 14.9	1.437	2.377	11.8	20.0
6 10	15 33.30	-19 31.6	1.623	2.586	9.0	20.8	6 10	15 36.56	+ 4 8.5	1.461	2.359	14.7	20.1
6 20	15 26.54	-19 18.3	1.698	2.598	12.9	21.1	6 20	15 30.89	+ 3 35.2	1.505	2.342	17.6	20.3
6 30	15 22.45	-19 12.5	1.793	2.611	16.0	21.3	6 30	15 27.69	+ 2 38.4	1.565	2.325	20.4	20.4
270331	2001 XX ₁₃₄		5 21.1 100°70	1°6/22.1 17			332657	2008 VU ₇₄		5 21.2 281°06	2°8/20.3 15		
4 21	16 17.09												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
333365	2002 <i>CC</i> ₉₃		5 21.2 50°48'	2°0'/20.3	17		349005	2006 <i>UT</i> ₂₇₀		5 21.2 220°72'	0°9'/21.6	14	C
4 21	16 15.81	-16 17.3	1.571	2.467	13.2	20.5	4 21	16 15.78	-22 38.7	2.411	3.285	10.1	21.3
5 1	16 9.75	-15 56.6	1.519	2.477	9.2	20.3	5 1	16 9.41	-22 50.8	2.334	3.280	7.2	21.1
5 11	16 1.68	-15 34.5	1.490	2.486	4.9	20.1	5 11	16 1.46	-22 58.0	2.282	3.275	3.9	20.9
5 21	15 52.57	-15 13.4	1.486	2.496	2.0	19.9	5 21	15 52.61	-23 0.2	2.259	3.270	0.9	20.7
5 31	15 43.60	-14 56.6	1.509	2.506	5.4	20.1	5 31	15 43.67	-22 58.5	2.264	3.265	3.5	20.9
6 10	15 35.86	-14 47.0	1.557	2.517	9.6	20.4	6 10	15 35.49	-22 54.7	2.298	3.259	6.9	21.1
6 20	15 30.16	-14 46.5	1.628	2.527	13.4	20.6	6 20	15 28.75	-22 51.1	2.357	3.253	9.9	21.3
6 30	15 27.00	-14 56.3	1.718	2.538	16.6	20.9	6 30	15 23.95	-22 50.1	2.439	3.247	12.6	21.4
105390	2000 <i>QZ</i> ₁₃₈		5 21.2 215°73'	1°6'/21.9	17		7151	1971 <i>SX</i> ₃		5 21.2 109°96'	5°3'/18.0	18	R
4 21	16 20.39	-25 22.4	1.935	2.806	12.4	20.5	4 21	16 15.06	- 8 51.0	1.808	2.698	12.1	16.6
5 1	16 12.96	-25 18.4	1.853	2.797	8.9	20.3	5 1	16 8.94	- 7 35.7	1.759	2.708	8.9	16.4
5 11	16 3.41	-25 4.7	1.796	2.787	5.0	20.0	5 11	16 1.18	- 6 24.6	1.735	2.719	6.1	16.2
5 21	15 52.60	-24 41.5	1.766	2.777	1.6	19.8	5 21	15 52.62	- 5 23.0	1.738	2.729	5.4	16.2
5 31	15 41.67	-24 10.7	1.765	2.765	4.3	19.9	5 31	15 44.22	- 4 35.7	1.768	2.739	7.6	16.4
6 10	15 31.76	-23 36.1	1.791	2.753	8.4	20.1	6 10	15 36.91	- 4 5.7	1.822	2.749	10.7	16.6
6 20	15 23.79	-23 2.3	1.842	2.740	12.2	20.3	6 20	15 31.33	- 3 53.7	1.899	2.758	13.6	16.8
6 30	15 18.38	-22 33.7	1.914	2.726	15.4	20.5	6 30	15 27.93	- 3 59.0	1.996	2.767	16.2	17.0
303341	2004 <i>TO</i> ₂₀₉		5 21.2 116°01'	0°7'/21.4	18		464058	2014 <i>WU</i> ₂₃₂		5 21.2 87°39'	2°9'/20.3	17	
4 21	16 20.88	-22 44.2	1.553	2.438	14.1	21.5	4 21	16 19.61	-12 31.1	1.546	2.438	13.7	20.9
5 1	16 13.32	-22 34.5	1.501	2.453	9.9	21.3	5 1	16 12.42	-12 35.8	1.494	2.449	9.7	20.7
5 11	16 3.53	-22 16.5	1.473	2.468	5.2	21.0	5 11	16 3.11	-12 43.8	1.466	2.460	5.4	20.4
5 21	15 52.61	-21 51.3	1.470	2.482	0.7	20.7	5 21	15 52.66	-12 56.5	1.463	2.471	3.0	20.3
5 31	15 41.90	-21 22.1	1.495	2.496	4.7	21.1	5 31	15 42.33	-13 15.4	1.488	2.482	6.0	20.5
6 10	15 32.65	-20 53.1	1.545	2.509	9.3	21.4	6 10	15 33.30	-13 41.3	1.537	2.492	10.1	20.8
6 20	15 25.73	-20 28.9	1.619	2.522	13.2	21.6	6 20	15 26.44	-14 14.7	1.610	2.503	13.9	21.0
6 30	15 21.65	-20 12.6	1.712	2.534	16.5	21.9	6 30	15 22.27	-14 55.4	1.703	2.514	17.0	21.3
499183	2009 <i>SZ</i> ₂₂₈		5 21.2 206°43'	4°4'/23.1	17		283247	2011 <i>EU</i> ₁₇		5 21.2 81°53'	12°0'/13.1	18	
4 21	16 20.90	-32 40.5	2.188	3.034	12.1	22.6	4 21	16 15.18	+ 9 13.4	1.751	2.598	14.6	20.3
5 1	16 13.29	-33 12.0	2.108	3.029	9.3	22.4	5 1	16 8.93	+11 17.4	1.733	2.620	12.9	20.2
5 11	16 3.59	-33 31.0	2.052	3.023	6.4	22.3	5 11	16 1.12	+12 58.5	1.737	2.642	12.1	20.2
5 21	15 52.62	-33 35.3	2.023	3.017	4.5	22.2	5 21	15 52.63	+14 9.8	1.765	2.663	12.4	20.3
5 31	15 41.49	-33 25.0	2.022	3.010	5.4	22.2	5 31	15 44.41	+14 47.9	1.816	2.684	13.6	20.4
6 10	15 31.33	-33 2.8	2.049	3.002	8.1	22.3	6 10	15 37.37	+14 53.2	1.887	2.705	15.3	20.6
6 20	15 23.05	-32 33.3	2.101	2.994	11.1	22.5	6 20	15 32.12	+14 29.6	1.975	2.726	17.0	20.8
6 30	15 17.28	-32 1.7	2.175	2.985	13.8	22.7	6 30	15 29.03	+13 42.1	2.079	2.746	18.5	20.9
152285	2005 <i>TJ</i> ₁₀		5 21.2 243°44'	1°7'/22.3	18		341256	2007 <i>RB</i> ₂₂₈		5 21.2 18°38'	2°0'/19.8	17	
4 21	16 14.17	-27 12.7	2.623	3.488	9.7	20.9	4 21	16 13.28	-17 17.6	1.987	2.878	11.2	20.6
5 1	16 8.22	-26 58.8	2.536	3.475	7.0	20.7	5 1	16 7.73	-16 18.8	1.922	2.878	7.8	20.4
5 11	16 0.81	-26 36.1	2.474	3.462	4.1	20.5	5 11	16 0.59	-15 16.0	1.883	2.879	4.1	20.1
5 21	15 52.58	-26 5.3	2.440	3.449	1.7	20.3	5 21	15 52.62	-14 13.2	1.871	2.879	2.1	20.0
5 31	15 44.28	-25 28.0	2.436	3.435	3.4	20.4	5 31	15 44.72	-13 14.6	1.887	2.880	5.0	20.2
6 10	15 36.70	-24 47.5	2.460	3.421	6.4	20.6	6 10	15 37.77	-12 24.7	1.929	2.881	8.6	20.4
6 20	15 30.47	-24 7.0	2.510	3.407	9.3	20.8	6 20	15 32.42	-11 46.4	1.995	2.881	11.9	20.6
6 30	15 26.06	-23 30.0	2.583	3.393	11.9	20.9	6 30	15 29.13	-11 21.5	2.082	2.882	14.7	20.8
375993	2009 <i>XS</i> ₁₆		5 21.2 105°21'	1°9'/20.3	17		256686	2007 <i>YZ</i> ₅₄		5 21.2 280°85'	4°4'/22.4	18	
4 21	16 16.61	-15 34.4	1.910	2.798	11.7	20.8	4 21	16 22.95	-29 41.7	1.638	2.504	14.5	20.5
5 1	16 10.03	-15 21.7	1.855	2.809	8.1	20.6	5 1	16 15.66	-30 18.0	1.534	2.470	11.0	20.2
5 11	16 1.75	-15 8.3	1.824	2.820	4.3	20.3	5 11	16 5.30	-30 42.9	1.453	2.435	7.2	19.9
5 21	15 52.59	-14 56.2	1.821	2.830	1.9	20.2	5 21	15 52.71	-30 52.3	1.397	2.399	4.5	19.6
5 31	15 43.54	-14 47.5	1.845	2.841	4.8	20.4	5 31	15 39.31	-30 44.9	1.367	2.362	6.3	19.6
6 10	15 35.54	-14 44.5	1.896	2.851	8.5	20.7	6 10	15 26.76	-30 23.0	1.364	2.324	10.6	19.8
6 20	15 29.29	-14 48.7	1.972	2.861	11.9	20.9	6 20	15 16.53	-29 52.4	1.383	2.286	15.1	19.9
6 30	15 25.27	-15 1.1	2.068	2.871	14.7	21.1	6 30	15 9.64	-29 20.6	1.422	2.247	19.1	20.1
414117	2007 <i>UE</i> ₄₉		5 21.2 217°79'	0°2'/21.0	17		505899	2015 <i>DK</i> ₂₁₃		5 21.2 11°54'	6°0'/18.2	17	
4 21	16 19.24	-20 43.3	1.858	2.739	12.3	22.6	4 21	16 13.46	- 5 52.9	1.757	2.647	12.4	20.6
5 1	16 12.15	-20 26.7	1.779	2.730	8.7	22.3	5 1	16 7.97	- 5 6.6	1.701	2.648	9.3	20.4
5 11	16 2.99	-20 4.0	1.726	2.721	4.5	22.1	5 11	16 0.76	- 4 28.0	1.670	2.649	6.7	20.2
5 21	15 52.62	-19 36.3	1.699	2.711	0.2	21.7	5 21	15 52.63	- 4 1.3	1.664	2.651	6.1	20.2
5 31	15 42.14	-19 6.6	1.701	2.701	4.5	22.0	5 31	15 44.56	- 3 50.0	1.683	2.653	8.0	20.3
6 10	15 32.68	-18 38.4	1.729	2.689	8.8	22.2	6 10	15 37.49	- 3 55.7	1.727	2.655	11.0	20.5
6 20	15 25.13	-18 15.5	1.782	2.677	12.7	22.4	6 20	15 32.13	- 4 18.1	1.793	2.657	14.1	20.7
6 30	15 20.08	-18 1.0	1.856	2.664	15.9	22.6	6 30	15 28.97	- 4 55.5	1.877	2.660	16.7	20.9
240044	2001 <i>UX</i> ₂₁₄		5 21.2 1°37'	0°2'/21.2	17		290488	2005 <i>UD</i> ₆		5 21.2 200°43'	1°1'/21.6	16	
4 21	16 18.04	-20 26.8	1.162	2.066	16.3	19.9	4 21	16 20.84	-24 16.7	1.603	2.484	13.9	21.5
5 1	16 12.06	-20 34.8	1.104	2.065	11.5	19.6	5 1	16 13.51	-24 0.7	1.532	2.481	9.9	21.2
5 11	16 3.19	-20 36.9	1.067	2.065	6.0	19.3	5 11	16 3.79	-23 34.2	1.484	2.477	5.4	21.0
5 21	15 52.62	-20 33.7	1.053	2.065	0.2	18.8	5 21	15 52.69	-22 57.9	1.462	2.473	1.1	20.7
5 31	15 41.99	-20 27.5	1.062	2.065	5.8	19.3	5 31	15 41.55	-22 15.3	1.467	2.468	4.8	20.9
6 10	15 32.95	-20 22.2	1.095	2.066	11.3	19.6	6 10	15 31.70	-21 31.4	1.498	2.462	9.5	21.2
6 20	15 26.67	-20 21.7	1.148	2.068	16.1	19.9	6 20	15 24.14	-20 51.6	1.553	2.456	13.7	21.4
6 30	15 23.83	-20 29.2	1.219	2.070	20.2	20.1	6 30	15 19.48	-20 20.6	1.628	2.449	17.3	21.6
513403	2008 <i>KO</i> ₄₃		5 21.2 211°56'	3°5'/17.1	18		140102						

EPHEMERIDES

5 21.2

5 21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
336425	2008 <i>UZ</i> ₂₂₇		5 21.2 248°94	6°4/24.4	16		344015	2012 <i>BW</i> ₉₄		5 21.2 42°96	1°0/20.8	17	
4 21	16 20.18	-38 45.9	2.145	2.970	13.0	21.4	4 21	16 16.65	-19 46.8	1.256	2.159	15.4	20.6
5 1	16 13.02	-39 13.2	2.056	2.956	10.6	21.2	5 1	16 10.71	-19 18.1	1.208	2.170	10.7	20.4
5 11	16 3.56	-39 23.3	1.990	2.941	8.1	21.0	5 11	16 2.34	-18 43.1	1.182	2.180	5.5	20.1
5 21	15 52.68	-39 13.3	1.950	2.925	6.5	20.9	5 21	15 52.71	-18 5.0	1.180	2.192	1.0	19.8
5 31	15 41.59	-38 43.1	1.936	2.910	6.8	20.9	5 31	15 43.29	-17 28.5	1.203	2.204	5.6	20.2
6 10	15 31.54	-37 56.0	1.949	2.894	9.0	21.0	6 10	15 35.43	-16 58.7	1.249	2.216	10.6	20.5
6 20	15 23.52	-36 57.9	1.986	2.877	11.7	21.1	6 20	15 30.07	-16 39.4	1.316	2.229	15.0	20.8
6 30	15 18.22	-35 55.6	2.045	2.860	14.4	21.2	6 30	15 27.70	-16 32.6	1.402	2.242	18.6	21.0
58275	1993 <i>TR</i> ₃₂		5 21.2 208°53	2°6/20.0	17		317902	2003 <i>UU</i> ₂₃₀		5 21.2 148°70	1°5/21.9	18	
4 21	16 18.21	-15 18.0	1.633	2.525	13.1	19.8	4 21	16 20.23	-25 9.2	1.911	2.783	12.4	21.8
5 1	16 11.52	-14 46.3	1.566	2.521	9.2	19.6	5 1	16 12.71	-25 5.4	1.849	2.793	8.9	21.6
5 11	16 2.70	-14 13.1	1.522	2.517	5.0	19.3	5 11	16 3.23	-24 52.4	1.811	2.803	4.9	21.3
5 21	15 52.67	-13 41.3	1.505	2.513	2.6	19.2	5 21	15 52.73	-24 30.6	1.801	2.811	1.6	21.1
5 31	15 42.61	-13 14.7	1.514	2.508	5.9	19.4	5 31	15 42.32	-24 2.3	1.819	2.819	4.2	21.3
6 10	15 33.70	-12 56.9	1.549	2.503	10.1	19.6	6 10	15 33.09	-23 31.2	1.864	2.826	8.1	21.6
6 20	15 26.82	-12 50.3	1.607	2.497	14.1	19.8	6 20	15 25.84	-23 1.6	1.934	2.833	11.6	21.8
6 30	15 22.56	-12 56.1	1.684	2.491	17.4	20.0	6 30	15 21.08	-22 37.2	2.025	2.839	14.6	22.0
147430	2003 <i>HE</i> ₁₃		5 21.2 295°31	1°7/20.3	18		479192	2013 <i>CY</i> ₇₁		5 21.2 210°81	5°3/17.9	16	
4 21	16 13.36	-15 54.9	2.187	3.074	10.4	19.9	4 21	16 12.48	-4 17.4	2.377	3.254	10.1	21.5
5 1	16 7.78	-15 38.9	2.113	3.068	7.3	19.7	5 1	16 6.98	-3 36.9	2.315	3.253	7.7	21.3
5 11	16 0.65	-15 21.9	2.065	3.061	3.9	19.5	5 11	16 0.18	-3 3.1	2.279	3.251	5.8	21.2
5 21	15 52.64	-15 5.6	2.045	3.054	1.7	19.3	5 21	15 52.68	-2 39.4	2.270	3.249	5.4	21.2
5 31	15 44.59	-14 52.2	2.052	3.048	4.4	19.5	5 31	15 45.20	-2 28.3	2.288	3.247	6.9	21.3
6 10	15 37.33	-14 44.0	2.086	3.041	7.9	19.7	6 10	15 38.44	-2 31.0	2.332	3.245	9.2	21.4
6 20	15 31.51	-14 42.7	2.145	3.035	11.0	19.9	6 20	15 32.98	-2 47.5	2.399	3.243	11.6	21.6
6 30	15 27.64	-14 49.5	2.225	3.028	13.8	20.0	6 30	15 29.22	-3 16.8	2.487	3.241	13.8	21.7
470243	2006 <i>XM</i> ₃₇		5 21.2 241°17	8°2/16.1	18		424057	2007 <i>BZ</i> ₁₀₁		5 21.2 157°61	0°0/21.2	18	
4 21	16 14.89	+ 9 3.8	2.700	3.526	10.6	21.7	4 21	16 19.96	-19 54.0	2.141	3.016	11.2	21.4
5 1	16 8.56	+ 9 34.1	2.632	3.513	9.2	21.5	5 1	16 12.38	-20 5.1	2.076	3.024	7.8	21.2
5 11	16 0.96	+ 9 49.8	2.589	3.499	8.3	21.5	5 11	16 3.04	-20 12.5	2.036	3.031	4.0	21.0
5 21	15 52.66	+ 9 48.0	2.571	3.485	8.3	21.4	5 21	15 52.74	-20 16.4	2.025	3.038	0.1	20.7
5 31	15 44.33	+ 9 26.5	2.580	3.471	9.3	21.5	5 31	15 42.47	-20 18.0	2.044	3.043	3.9	21.0
6 10	15 36.64	+ 8 45.7	2.613	3.456	10.8	21.6	6 10	15 33.16	-20 19.2	2.090	3.049	7.6	21.3
6 20	15 30.14	+ 7 47.4	2.668	3.441	12.5	21.7	6 20	15 25.57	-20 22.1	2.162	3.053	10.9	21.5
6 30	15 25.26	+ 6 34.2	2.744	3.425	14.1	21.8	6 30	15 20.20	-20 29.0	2.256	3.057	13.7	21.7
205721	2002 <i>AD</i> ₁₀₀		5 21.2 29°13	2°3/21.9	17		115482	2003 <i>UV</i> ₁₄		5 21.2 143°33	1°4/21.9	18	
4 21	16 17.75	-25 15.3	1.141	2.041	16.9	19.8	4 21	16 16.13	-25 9.1	2.006	2.882	11.7	19.7
5 1	16 11.85	-25 23.8	1.091	2.048	12.1	19.6	5 1	16 9.84	-24 59.2	1.938	2.885	8.4	19.5
5 11	16 3.07	-25 19.8	1.060	2.055	6.8	19.3	5 11	16 1.77	-24 40.4	1.896	2.888	4.6	19.3
5 21	15 52.69	-25 3.3	1.053	2.063	2.4	19.0	5 21	15 52.72	-24 13.7	1.880	2.891	1.4	19.1
5 31	15 42.43	-24 37.2	1.069	2.071	5.7	19.3	5 31	15 43.72	-23 41.4	1.892	2.893	4.0	19.3
6 10	15 33.91	-24 7.4	1.107	2.081	10.9	19.6	6 10	15 35.72	-23 7.1	1.931	2.896	7.7	19.5
6 20	15 28.26	-23 40.0	1.167	2.091	15.6	19.9	6 20	15 29.50	-22 34.9	1.995	2.898	11.1	19.7
6 30	15 26.05	-23 19.9	1.244	2.101	19.5	20.2	6 30	15 25.53	-22 8.1	2.080	2.900	14.1	19.9
361536	2007 <i>JE</i> ₇		5 21.2 311°28	0°8/21.6	18		145739	1995 <i>SX</i> ₂₇		5 21.2 201°74	4°5/23.6	18	
4 21	16 14.02	-22 33.7	2.490	3.366	9.8	20.8	4 21	16 18.25	-35 2.0	2.626	3.459	10.7	20.6
5 1	16 8.16	-22 46.8	2.415	3.362	6.9	20.6	5 1	16 11.25	-35 35.4	2.546	3.456	8.4	20.4
5 11	16 0.83	-22 55.3	2.366	3.359	3.7	20.4	5 11	16 2.52	-35 56.8	2.492	3.452	6.1	20.2
5 21	15 52.66	-22 59.3	2.345	3.356	0.9	20.1	5 21	15 52.75	-36 4.6	2.464	3.449	4.6	20.1
5 31	15 44.43	-22 59.8	2.352	3.353	3.3	20.3	5 31	15 42.86	-35 58.6	2.465	3.445	5.1	20.2
6 10	15 36.92	-22 58.3	2.388	3.350	6.6	20.5	6 10	15 33.78	-35 41.1	2.493	3.440	7.2	20.3
6 20	15 30.76	-22 57.1	2.449	3.347	9.5	20.7	6 20	15 26.25	-35 15.6	2.548	3.435	9.6	20.4
6 30	15 26.43	-22 58.2	2.533	3.344	12.1	20.9	6 30	15 20.83	-34 46.6	2.625	3.430	11.9	20.6
472241	2014 <i>HH</i> ₁₄₆		5 21.2 143°74	4°7/18.1	18		356881	2011 <i>WG</i> ₁₂₉		5 21.2 289°14	0°9/20.7	18	
4 21	16 12.63	- 7 14.7	2.318	3.201	10.1	21.2	4 21	16 13.64	-18 47.8	2.132	3.018	10.7	21.1
5 1	16 7.07	- 6 21.7	2.261	3.205	7.5	21.0	5 1	16 8.10	-18 28.1	2.050	3.004	7.5	20.9
5 11	16 0.20	- 5 33.4	2.229	3.208	5.3	20.9	5 11	16 0.91	-18 4.7	1.993	2.990	3.9	20.6
5 21	15 52.66	- 4 53.2	2.225	3.212	4.8	20.9	5 21	15 52.74	-17 39.2	1.964	2.976	0.9	20.4
5 31	15 45.18	- 4 24.4	2.248	3.216	6.5	21.0	5 31	15 44.47	-17 14.1	1.963	2.961	4.1	20.6
6 10	15 38.48	- 4 8.8	2.298	3.219	9.0	21.2	6 10	15 36.98	-16 52.3	1.988	2.947	7.9	20.8
6 20	15 33.12	- 4 7.1	2.371	3.222	11.5	21.3	6 20	15 30.99	-16 36.6	2.038	2.933	11.3	21.0
6 30	15 29.50	- 4 18.6	2.464	3.225	13.7	21.5	6 30	15 27.04	-16 28.8	2.109	2.919	14.2	21.2
59643	1999 <i>JA</i> ₈₇		5 21.2 282°08	5°5/19.1	18		265196	2004 <i>BW</i> ₅₈		5 21.2 143°90	15°0/17.8	18	R
4 21	16 17.04	- 6 32.6	1.731	2.617	12.8	18.7	4 21	16 37.00	+ 6 53.4	1.026	1.881	21.9	21.3
5 1	16 10.73	- 6 13.9	1.653	2.599	9.6	18.5	5 1	16 24.82	+ 8 31.8	0.999	1.906	18.2	21.1
5 11	16 2.36	- 6 3.0	1.598	2.581	6.6	18.3	5 11	16 9.52	+ 9 38.7	0.991	1.929	15.6	21.1
5 21	15 52.70	- 6 3.2	1.569	2.563	5.5	18.2	5 21	15 52.90	+10 3.9	1.006	1.948	15.2	21.1
5 31	15 42.83	- 6 17.2	1.567	2.545	7.7	18.3	5 31	15 37.07	+ 9 43.7	1.043	1.965	17.0	21.3
6 10	15 33.86	- 6 46.2	1.590	2.526	11.2	18.4	6 10	15 23.83	+ 8 42.8	1.100	1.978	19.9	21.5
6 20	15 26.69	- 7 29.8	1.635	2.508	14.8	18.6	6 20	15 14.21	+ 7 10.7	1.176	1.989	23.0	21.7
6 30	15 21.98	- 8 26.4	1.699	2.489	17.9	18.8	6 30	15 8.59	+ 5 17.5	1.265	1.997	25.6	22.0
497807	2006 <i>TC</i> ₃₆		5 21.2 139°92	0°4/20.9	17		335102	2004 <i>TF</</i>					

EPHEMERIDES

5 21.2

5 21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
322230	2011 <i>BD</i> ₆₂		5 21.2 241°67	2°3/20.2	18		248955	2006 <i>XC</i> ₂₁		5 21.2 255°35	9°5/15.6	18	
4 21	16 17.79	-14 40.1	1.815	2.703	12.2	20.9	4 21	16 15.08	+12 6.0	2.501	3.317	11.7	20.5
5 1	16 11.19	-14 27.7	1.739	2.693	8.6	20.6	5 1	16 8.80	+12 38.8	2.440	3.306	10.4	20.4
5 11	16 2.58	-14 15.3	1.688	2.682	4.7	20.4	5 11	16 1.16	+12 54.1	2.402	3.295	9.6	20.3
5 21	15 52.78	-14 4.8	1.663	2.671	2.3	20.2	5 21	15 52.79	+12 48.4	2.388	3.284	9.7	20.3
5 31	15 42.83	-13 58.6	1.665	2.660	5.4	20.4	5 31	15 44.41	+12 19.8	2.399	3.272	10.5	20.3
6 10	15 33.84	-13 59.0	1.694	2.648	9.4	20.6	6 10	15 36.75	+11 28.8	2.433	3.261	12.0	20.4
6 20	15 26.67	-14 7.9	1.747	2.636	13.2	20.8	6 20	15 30.40	+10 18.1	2.489	3.249	13.6	20.5
6 30	15 21.93	-14 26.1	1.820	2.624	16.4	21.0	6 30	15 25.78	+ 8 51.1	2.564	3.238	15.2	20.6
381568	2008 <i>UD</i> ₇₉		5 21.2 81°04	3°6/18.9	17		496303	2013 <i>ER</i> ₄₈		5 21.2 77°40	5°8/23.3	17	
4 21	16 14.53	-13 37.7	1.795	2.689	12.0	20.7	4 21	16 22.07	-32 31.6	1.299	2.171	17.1	21.4
5 1	16 8.64	-12 26.5	1.744	2.700	8.5	20.5	5 1	16 14.93	-33 3.7	1.243	2.179	13.0	21.1
5 11	16 1.10	-11 14.9	1.718	2.710	5.0	20.4	5 11	16 4.74	-33 16.6	1.209	2.187	8.8	20.9
5 21	15 52.75	-10 8.1	1.719	2.721	3.7	20.3	5 21	15 52.86	-33 7.3	1.197	2.195	5.9	20.8
5 31	15 44.57	- 9 10.9	1.746	2.732	6.3	20.5	5 31	15 41.04	-32 37.3	1.210	2.203	7.1	20.9
6 10	15 37.48	- 8 27.4	1.800	2.742	9.7	20.7	6 10	15 31.02	-31 52.7	1.246	2.211	10.9	21.1
6 20	15 32.15	- 7 59.6	1.877	2.753	13.0	20.9	6 20	15 23.98	-31 1.9	1.305	2.220	14.9	21.3
6 30	15 29.00	- 7 47.9	1.973	2.764	15.7	21.1	6 30	15 20.53	-30 13.0	1.382	2.228	18.5	21.6
366597	2002 <i>VU</i> ₁₀₇		5 21.2 252°80	1°9/22.2	18		423745	2006 <i>BC</i> ₂₇₅		5 21.2 288°81	6°0/13.5	18	
4 21	16 19.42	-26 52.8	2.039	2.906	12.0	22.4	4 21	16 6.29	+10 38.6	4.265	5.081	7.2	20.9
5 1	16 12.40	-26 38.4	1.942	2.883	8.7	22.1	5 1	16 2.34	+11 24.7	4.212	5.075	6.4	20.8
5 11	16 3.26	-26 12.7	1.870	2.859	5.1	21.9	5 11	15 57.72	+12 1.2	4.184	5.069	6.0	20.8
5 21	15 52.80	-25 35.7	1.825	2.834	1.9	21.6	5 21	15 52.73	+12 26.0	4.181	5.064	6.2	20.8
5 31	15 42.09	-24 49.6	1.809	2.809	4.3	21.7	5 31	15 47.76	+12 37.7	4.204	5.058	6.8	20.8
6 10	15 32.27	-23 58.7	1.820	2.782	8.3	21.9	6 10	15 43.14	+12 36.0	4.251	5.052	7.7	20.9
6 20	15 24.25	-23 8.0	1.857	2.755	12.1	22.1	6 20	15 39.20	+12 21.2	4.319	5.046	8.7	21.0
6 30	15 18.70	-22 22.7	1.915	2.727	15.4	22.2	6 30	15 36.18	+11 54.6	4.406	5.040	9.7	21.1
311348	2005 <i>QS</i> ₁₇₉		5 21.2 297°81	2°5/19.9	17		235329	2003 <i>UG</i> ₁₉₆		5 21.2 254°64	1°5/21.9	17	
4 21	16 13.94	-14 6.6	2.032	2.921	11.0	20.8	4 21	16 16.45	-25 3.7	2.032	2.907	11.6	21.1
5 1	16 8.43	-13 44.1	1.942	2.897	7.8	20.5	5 1	16 10.21	-25 0.9	1.951	2.897	8.4	20.8
5 11	16 1.15	-13 21.3	1.878	2.872	4.4	20.2	5 11	16 2.07	-24 49.7	1.894	2.886	4.7	20.6
5 21	15 52.77	-13 0.6	1.841	2.848	2.5	20.1	5 21	15 52.82	-24 30.2	1.865	2.875	1.5	20.3
5 31	15 44.17	-12 44.8	1.831	2.823	5.2	20.2	5 31	15 43.45	-24 4.4	1.863	2.864	4.0	20.5
6 10	15 36.30	-12 36.5	1.847	2.799	8.9	20.4	6 10	15 34.99	-23 35.7	1.888	2.852	7.9	20.7
6 20	15 29.95	-12 37.5	1.887	2.775	12.4	20.5	6 20	15 28.25	-23 7.7	1.938	2.841	11.4	20.9
6 30	15 25.70	-12 49.0	1.948	2.750	15.5	20.7	6 30	15 23.81	-22 44.3	2.010	2.829	14.5	21.1
259971	2004 <i>FB</i> ₃₀		5 21.2 344°96	8°8/20.3	18		98899	2001 <i>BG</i> ₄₈		5 21.2 69°87	4°5/18.7	17	
4 21	16 34.18	-25 13.8	0.875	1.769	21.3	19.3	4 21	16 14.36	-10 55.1	1.747	2.641	12.3	19.4
5 1	16 25.56	-28 43.1	0.815	1.764	16.2	19.0	5 1	16 8.58	- 9 51.9	1.698	2.651	8.8	19.2
5 11	16 11.44	-32 16.3	0.775	1.760	11.1	18.7	5 11	16 1.11	- 8 51.3	1.673	2.661	5.6	19.0
5 21	15 52.98	-35 32.1	0.760	1.756	8.8	18.5	5 21	15 52.80	- 7 58.2	1.674	2.672	4.6	19.0
5 31	15 32.88	-38 10.4	0.768	1.754	11.8	18.7	5 31	15 44.65	- 7 17.1	1.701	2.682	6.9	19.1
6 10	15 14.65	-40 3.6	0.799	1.752	17.0	18.9	6 10	15 37.58	- 6 51.0	1.754	2.692	10.2	19.3
6 20	15 1.12	-41 18.1	0.848	1.751	22.1	19.2	6 20	15 32.29	- 6 41.0	1.830	2.703	13.4	19.5
6 30	14 53.82	-42 7.7	0.911	1.750	26.2	19.5	6 30	15 29.21	- 6 46.7	1.924	2.713	16.1	19.8
159728	2003 <i>BU</i> ₈₆		5 21.2 344°32	18°4/29.1	17		176538	2002 <i>AM</i> ₂₇		5 21.2 59°22	2°1/22.2	17	
4 21	16 28.40	-56 10.3	1.264	2.032	23.3	19.5	4 21	16 15.95	-26 28.1	2.039	2.912	11.7	20.2
5 1	16 21.61	-58 6.2	1.205	2.027	21.5	19.3	5 1	16 9.65	-26 34.9	1.987	2.930	8.4	20.0
5 11	16 9.22	-59 24.6	1.162	2.023	19.8	19.1	5 11	16 1.65	-26 32.8	1.959	2.948	4.9	19.8
5 21	15 52.92	-59 52.9	1.134	2.019	18.7	19.1	5 21	15 52.81	-26 21.9	1.958	2.966	2.1	19.7
5 31	15 36.01	-59 24.6	1.123	2.016	18.4	19.0	5 31	15 44.11	-26 3.9	1.985	2.985	4.0	19.8
6 10	15 22.11	-58 4.8	1.129	2.014	19.1	19.1	6 10	15 36.47	-25 42.0	2.038	3.003	7.3	20.1
6 20	15 13.54	-56 7.2	1.152	2.012	20.5	19.1	6 20	15 30.59	-25 19.8	2.117	3.021	10.5	20.3
6 30	15 11.10	-53 48.6	1.191	2.011	22.4	19.3	6 30	15 26.91	-25 0.6	2.217	3.040	13.2	20.5
436965	2012 <i>TU</i> ₁₇₀		5 21.2 112°26	3°2/19.2	17		478308	2011 <i>WX</i> ₆₈		5 21.2 226°08	2°4/22.5	16	
4 21	16 13.74	-13 25.8	1.991	2.882	11.1	21.4	4 21	16 15.50	-28 11.5	2.429	3.292	10.5	21.7
5 1	16 8.06	-12 30.4	1.931	2.885	7.9	21.2	5 1	16 9.32	-28 21.8	2.352	3.288	7.7	21.5
5 11	16 0.82	-11 34.8	1.896	2.888	4.6	21.0	5 11	16 1.53	-28 23.2	2.299	3.284	4.7	21.3
5 21	15 52.77	-10 42.8	1.888	2.891	3.3	20.9	5 21	15 52.82	-28 15.5	2.274	3.280	2.5	21.1
5 31	15 44.79	- 9 58.6	1.908	2.894	5.7	21.1	5 31	15 44.05	-27 59.6	2.278	3.275	3.8	21.2
6 10	15 37.75	- 9 25.5	1.953	2.897	9.0	21.3	6 10	15 36.07	-27 38.2	2.309	3.270	6.8	21.4
6 20	15 32.29	- 9 5.3	2.023	2.900	12.2	21.5	6 20	15 29.58	-27 14.4	2.366	3.266	9.7	21.6
6 30	15 28.85	- 8 58.7	2.113	2.903	14.9	21.7	6 30	15 25.09	-26 51.6	2.445	3.261	12.3	21.7
79350	1996 <i>YW</i>		5 21.2 162°92	0°7/20.9	18		270353	2001 <i>YB</i> ₄₀		5 21.2 244°41	2°5/22.5	18	
4 21	16 21.24	-19 10.1	1.446	2.337	14.5	18.8	4 21	16 18.07	-28 11.4	1.955	2.823	12.4	20.4
5 1	16 13.88	-19 4.2	1.386	2.341	10.2	18.5	5 1	16 11.46	-28 4.3	1.871	2.811	9.1	20.2
5 11	16 4.05	-18 53.6	1.348	2.344	5.3	18.2	5 11	16 2.77	-27 45.3	1.810	2.797	5.5	20.0
5 21	15 52.83	-18 39.6	1.335	2.347	0.7	17.9	5 21	15 52.85	-27 14.4	1.777	2.784	2.6	19.7
5 31	15 41.63	-18 25.0	1.349	2.350	5.3	18.2	5 31	15 42.79	-26 33.4	1.771	2.770	4.4	19.8
6 10	15 31.84	-18 13.2	1.388	2.352	10.2	18.5	6 10	15 33.72	-25 46.7	1.791	2.755	8.2	20.0
6 20	15 24.46	-18 7.8	1.450	2.353	14.5	18.8	6 20	15 26.54	-24 59.5	1.837	2.741	11.9	20.2
6 30	15 20.10	-18 11.2	1.531	2.354	18.1	19.0	6 30	15 21.86	-24 16.6	1.904	2.725	15.1	20.4
84543	2002 <i>UJ</i> ₂₈		5 21.2 93°46	3°8/18.9	18		111727	2002 <i>CR</i>					

EPHEMERIDES

5 21.2

5 21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
88086	2000 <i>WC</i> ₃₅		5 21.2 258°02	3°0/19.2	18		313629	2003 <i>RE</i> ₂₃		5 21.2 271°75	4°3/22.9	17	
4 21	16 13.07	-11 29.3	2.585	3.467	9.2	20.0	4 21	16 20.25	-30 33.1	1.559	2.429	14.8	20.8
5 1	16 7.47	-10 52.5	2.499	3.448	6.6	19.8	5 1	16 13.62	-30 48.1	1.472	2.410	11.2	20.5
5 11	16 0.53	-10 16.6	2.440	3.429	4.1	19.6	5 11	16 4.18	-30 48.1	1.408	2.390	7.3	20.3
5 21	15 52.81	-9 44.2	2.409	3.409	3.1	19.5	5 21	15 52.92	-30 30.6	1.368	2.370	4.4	20.0
5 31	15 44.98	-9 17.8	2.406	3.389	5.0	19.6	5 31	15 41.29	-29 56.4	1.354	2.350	6.0	20.1
6 10	15 37.77	-9 0.0	2.431	3.368	7.8	19.7	6 10	15 30.84	-29 10.2	1.365	2.330	10.1	20.3
6 20	15 31.74	-8 52.0	2.481	3.347	10.6	19.9	6 20	15 22.82	-28 19.0	1.398	2.309	14.4	20.5
6 30	15 27.36	-8 54.5	2.553	3.326	13.0	20.0	6 30	15 18.04	-27 30.2	1.452	2.288	18.2	20.6
237195	2008 <i>UK</i> ₂₅₂		5 21.2 348°69	1°0/20.8	17		510424	2011 <i>US</i> ₃₁₀		5 21.2 236°82	2°5/19.5	18	
4 21	16 12.78	-20 44.5	0.946	1.866	17.5	19.8	4 21	16 13.66	-12 27.6	2.774	3.653	8.8	22.7
5 1	16 8.81	-20 4.7	0.889	1.858	12.4	19.4	5 1	16 7.81	-11 57.7	2.689	3.637	6.2	22.5
5 11	16 1.74	-19 14.0	0.850	1.851	6.4	19.1	5 11	16 0.69	-11 28.4	2.631	3.621	3.7	22.3
5 21	15 52.83	-18 16.8	0.833	1.845	1.0	18.7	5 21	15 52.85	-11 1.6	2.602	3.605	2.6	22.2
5 31	15 43.84	-17 20.4	0.837	1.840	6.7	19.0	5 31	15 44.93	-10 39.7	2.602	3.587	4.5	22.3
6 10	15 36.55	-16 33.0	0.862	1.837	12.8	19.4	6 10	15 37.59	-10 24.7	2.630	3.570	7.2	22.5
6 20	15 32.20	-16 0.6	0.905	1.836	18.2	19.6	6 20	15 31.39	-10 17.8	2.684	3.552	9.8	22.6
6 30	15 31.47	-15 46.5	0.963	1.836	22.7	19.9	6 30	15 26.75	-10 20.0	2.760	3.533	12.1	22.8
180581	2004 <i>FS</i> ₂₀		5 21.2 50°63	1°6/20.5	17		326134	2012 <i>BZ</i> ₂₀		5 21.2 123°35	1°8/20.4	18	
4 21	16 16.36	-18 37.5	1.359	2.260	14.6	20.2	4 21	16 18.88	-16 55.3	1.666	2.556	13.0	21.4
5 1	16 10.36	-17 56.4	1.313	2.273	10.1	19.9	5 1	16 11.87	-16 27.7	1.613	2.568	9.1	21.2
5 11	16 2.15	-17 10.5	1.288	2.286	5.2	19.7	5 11	16 2.88	-15 57.6	1.583	2.579	4.8	21.0
5 21	15 52.84	-16 23.5	1.289	2.300	1.7	19.5	5 21	15 52.90	-15 27.5	1.580	2.590	1.8	20.8
5 31	15 43.76	-15 40.6	1.315	2.314	5.7	19.8	5 31	15 43.06	-15 1.0	1.605	2.601	5.2	21.0
6 10	15 36.15	-15 6.5	1.365	2.328	10.3	20.1	6 10	15 34.49	-14 41.5	1.655	2.612	9.4	21.3
6 20	15 30.84	-14 44.5	1.437	2.343	14.4	20.3	6 20	15 27.95	-14 31.3	1.729	2.621	13.1	21.5
6 30	15 28.31	-14 36.3	1.528	2.358	17.8	20.6	6 30	15 23.95	-14 31.8	1.822	2.631	16.2	21.8
295901	2008 <i>WT</i> ₈₆		5 21.2 15°50	0°8/21.6	17		40761	1999 <i>TT</i> ₁₃		5 21.2 282°93	1°1/21.7	18	
4 21	16 16.30	-23 5.1	1.838	2.721	12.3	21.1	4 21	16 16.95	-23 15.0	1.813	2.695	12.5	18.4
5 1	16 10.13	-23 0.9	1.770	2.721	8.7	20.9	5 1	16 10.76	-23 22.8	1.735	2.685	8.9	18.1
5 11	16 2.03	-22 49.4	1.727	2.721	4.7	20.7	5 11	16 2.46	-23 23.7	1.681	2.675	4.9	17.9
5 21	15 52.84	-22 31.4	1.710	2.722	0.9	20.4	5 21	15 52.89	-23 17.7	1.653	2.664	1.2	17.6
5 31	15 43.65	-22 9.2	1.720	2.722	4.2	20.6	5 31	15 43.16	-23 6.3	1.652	2.654	4.3	17.8
6 10	15 35.50	-21 46.0	1.757	2.722	8.3	20.9	6 10	15 34.41	-22 52.4	1.678	2.644	8.6	18.0
6 20	15 29.23	-21 25.6	1.818	2.722	11.9	21.1	6 20	15 27.55	-22 39.5	1.728	2.633	12.4	18.2
6 30	15 25.36	-21 11.1	1.899	2.723	15.1	21.3	6 30	15 23.22	-22 31.1	1.798	2.623	15.7	18.4
44732	1999 <i>TM</i> ₁₈		5 21.2 97°72	0°2/21.1	18		441800	2009 <i>FY</i> ₄₅		5 21.2 346°08	12°5/12.6	15	
4 21	16 18.29	-21 17.6	1.527	2.418	13.9	19.5	4 21	16 6.20	+ 2 9.5	1.226	2.127	15.9	19.5
5 1	16 11.63	-20 50.9	1.473	2.428	9.7	19.3	5 1	16 3.62	+ 4 13.6	1.167	2.103	13.6	19.3
5 11	16 2.80	-20 16.9	1.442	2.438	5.0	19.1	5 11	15 58.88	+ 6 2.5	1.129	2.082	12.5	19.2
5 21	15 52.86	-19 37.9	1.436	2.448	0.2	18.7	5 21	15 52.83	+ 7 24.8	1.112	2.063	13.1	19.2
5 31	15 43.08	-18 57.8	1.457	2.458	4.9	19.1	5 31	15 46.64	+ 8 11.5	1.114	2.045	15.3	19.2
6 10	15 34.67	-18 21.6	1.503	2.467	9.5	19.4	6 10	15 41.53	+ 8 18.8	1.135	2.030	18.2	19.4
6 20	15 28.48	-17 53.2	1.572	2.477	13.5	19.6	6 20	15 38.43	+ 7 48.3	1.172	2.018	21.1	19.5
6 30	15 25.02	-17 35.4	1.661	2.486	16.8	19.9	6 30	15 38.00	+ 6 45.0	1.223	2.007	23.8	19.7
111674	2002 <i>BS</i> ₁₉		5 21.2 91°59	1°7/20.3	18		365120	2009 <i>CL</i> ₅₉		5 21.2 36°80	3°0/19.9	17	
4 21	16 13.93	-15 26.1	2.307	3.192	10.1	19.8	4 21	16 16.47	-16 7.2	1.264	2.169	15.2	20.7
5 1	16 8.07	-15 12.6	2.248	3.201	7.0	19.6	5 1	16 10.66	-15 18.8	1.212	2.173	10.6	20.5
5 11	16 0.81	-14 58.7	2.214	3.209	3.8	19.4	5 11	16 2.42	-14 27.7	1.181	2.178	5.8	20.2
5 21	15 52.82	-14 45.9	2.208	3.217	1.7	19.3	5 21	15 52.90	-13 38.6	1.175	2.184	3.0	20.1
5 31	15 44.90	-14 36.3	2.230	3.225	4.2	19.5	5 31	15 43.51	-12 57.2	1.194	2.189	6.7	20.3
6 10	15 37.79	-14 31.6	2.280	3.233	7.4	19.7	6 10	15 35.60	-12 28.3	1.235	2.196	11.5	20.6
6 20	15 32.09	-14 33.4	2.355	3.241	10.3	19.9	6 20	15 30.11	-12 14.8	1.298	2.202	15.8	20.8
6 30	15 28.22	-14 42.3	2.451	3.249	12.8	20.1	6 30	15 27.57	-12 17.4	1.378	2.208	19.4	21.1
423636	2005 <i>WF</i> ₂₀₈		5 21.2 85°59	0°9/21.6	17		208405	2001 <i>SP</i> ₂₂₇		5 21.2 266°64	1°7/20.2	17	
4 21	16 17.73	-24 2.5	1.756	2.638	12.9	21.2	4 21	16 13.74	-16 45.1	2.127	3.015	10.7	20.6
5 1	16 10.99	-23 41.4	1.706	2.656	9.1	21.0	5 1	16 8.15	-16 11.0	2.053	3.007	7.5	20.4
5 11	16 2.38	-23 11.5	1.680	2.674	4.8	20.8	5 11	16 0.97	-15 34.2	2.003	2.999	4.0	20.2
5 21	15 52.85	-22 34.4	1.680	2.691	0.9	20.5	5 21	15 52.89	-14 57.2	1.981	2.991	1.8	20.0
5 31	15 43.55	-21 53.5	1.707	2.709	4.2	20.8	5 31	15 44.78	-14 23.2	1.987	2.983	4.6	20.2
6 10	15 35.52	-21 13.4	1.761	2.726	8.3	21.1	6 10	15 37.49	-13 55.4	2.020	2.974	8.1	20.4
6 20	15 29.50	-20 38.1	1.839	2.743	11.9	21.3	6 20	15 31.70	-13 36.2	2.078	2.966	11.4	20.6
6 30	15 25.93	-20 10.9	1.938	2.760	14.9	21.6	6 30	15 27.90	-13 27.1	2.156	2.958	14.2	20.7
24454	2000 <i>QF</i> ₁₉₈		5 21.2 247°33	0°6/20.6	18	R	354154	2002 <i>CM</i> ₁₄₈		5 21.2 3°21	15°0/10.7	18	
4 21	16 7.40	-17 45.7	4.259	5.137	6.0	18.6	4 21	16 11.33	+19 23.4	1.776	2.580	16.2	19.6
5 1	16 3.14	-17 34.2	4.185	5.135	4.1	18.4	5 1	16 6.58	+20 53.3	1.746	2.579	15.3	19.5
5 11	15 58.15	-17 21.4	4.137	5.133	2.1	18.3	5 11	16 0.16	+21 54.3	1.735	2.580	15.0	19.5
5 21	15 52.77	-17 8.2	4.119	5.130	0.6	18.1	5 21	15 52.89	+22 20.5	1.743	2.581	15.4	19.5
5 31	15 47.39	-16 55.8	4.131	5.128	2.3	18.3	5 31	15 45.72	+22 9.4	1.769	2.583	16.3	19.6
6 10	15 42.39	-16 45.2	4.172	5.126	4.3	18.4	6 10	15 39.58	+21 22.4	1.813	2.586	17.5	19.7
6 20	15 38.09	-16 37.4	4.240	5.124	6.2	18.6	6 20	15 35.13	+20 4.4	1.872	2.589	18.8	19.8
6 30	15 34.77	-16 33.4	4.332	5.122	7.8	18.7	6 30	15 32.83	+18 21.3	1.945	2.594	20.1	19.9
142319	2002 <i>RD</i> ₁₆₈		5 21.2 348°20	2°0/20.4	17		388797	200					

EPHEMERIDES

5 21.2

5 21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
229515	2005 <i>WO</i> ₁₅₉		5 21.2 138°67'	4.6°/19.2	17		168340	1995 <i>JE</i> ₁		5 21.2 228°72'	1.6°/21.1	18	
4 21	16 17.57	- 6 15.7	2.219	3.094	10.9	20.5	4 21	16 30.20	-12 50.6	1.236	2.122	16.8	19.7
5 1	16 10.57	- 5 57.5	2.166	3.106	8.0	20.3	5 1	16 20.99	-14 3.3	1.163	2.116	12.1	19.4
5 11	16 2.12	- 5 45.8	2.138	3.117	5.5	20.2	5 11	16 8.25	-15 25.4	1.114	2.109	6.5	19.0
5 21	15 52.94	- 5 42.8	2.138	3.128	4.6	20.1	5 21	15 53.14	-16 53.8	1.090	2.102	1.6	18.7
5 31	15 43.85	- 5 50.5	2.166	3.139	6.3	20.2	5 31	15 37.49	-18 24.0	1.094	2.094	6.4	19.0
6 10	15 35.68	- 6 9.3	2.222	3.149	9.0	20.4	6 10	15 23.27	-19 52.6	1.124	2.086	12.2	19.3
6 20	15 29.02	- 6 39.0	2.302	3.158	11.6	20.6	6 20	15 12.05	-21 18.2	1.177	2.077	17.4	19.6
6 30	15 24.30	- 7 18.5	2.403	3.167	14.0	20.8	6 30	15 4.78	-22 41.7	1.249	2.068	21.6	19.8
62620	2000 <i>SA</i> ₃₅₀		5 21.2 207°29'	6.8°/16.4	18		235313	2003 <i>UJ</i> ₁₃₄		5 21.2 180°58'	2.9°/22.8	18	R
4 21	16 12.64	+ 2 12.8	2.632	3.489	9.9	19.7	4 21	16 17.56	-29 29.1	2.240	3.099	11.3	21.0
5 1	16 7.08	+ 3 3.1	2.572	3.485	8.2	19.5	5 1	16 10.88	-29 34.2	2.167	3.100	8.4	20.8
5 11	16 0.32	+ 3 43.3	2.537	3.480	6.9	19.4	5 11	16 2.43	-29 28.6	2.118	3.100	5.3	20.6
5 21	15 52.92	+ 4 10.0	2.528	3.476	6.9	19.4	5 21	15 53.00	-29 11.8	2.097	3.101	2.9	20.5
5 31	15 45.53	+ 4 20.6	2.547	3.471	8.0	19.5	5 31	15 43.56	-28 45.2	2.104	3.100	4.2	20.5
6 10	15 38.79	+ 4 14.3	2.590	3.465	9.9	19.6	6 10	15 35.06	-28 12.1	2.138	3.100	7.3	20.7
6 20	15 33.21	+ 3 51.9	2.656	3.459	11.8	19.7	6 20	15 28.24	-27 36.6	2.198	3.099	10.4	20.9
6 30	15 29.20	+ 3 14.9	2.742	3.453	13.5	19.9	6 30	15 23.63	-27 2.9	2.281	3.097	13.1	21.1
384980	2012 <i>TD</i> ₁₇₄		5 21.2 171°92'	2.1°/22.4	17		64823	2001 <i>XO</i> ₂₄₀		5 21.2 138°65'	0.1°/21.1	18	
4 21	16 16.65	-27 16.1	2.218	3.085	11.2	21.5	4 21	16 10.36	-20 29.6	3.807	4.679	6.8	21.3
5 1	16 10.19	-27 13.9	2.147	3.086	8.1	21.3	5 1	16 5.25	-20 16.2	3.742	4.689	4.7	21.1
5 11	16 2.04	-27 2.3	2.100	3.088	4.8	21.1	5 11	15 59.31	-20 0.0	3.705	4.699	2.4	21.0
5 21	15 52.96	-26 41.4	2.081	3.089	2.1	20.9	5 21	15 52.94	-19 42.1	3.697	4.709	0.1	20.7
5 31	15 43.88	-26 12.9	2.091	3.090	3.9	21.0	5 31	15 46.62	-19 23.6	3.719	4.718	2.3	21.0
6 10	15 35.73	-25 40.4	2.128	3.091	7.2	21.2	6 10	15 40.78	-19 6.0	3.771	4.727	4.6	21.2
6 20	15 29.23	-25 7.4	2.190	3.091	10.4	21.4	6 20	15 35.80	-18 50.7	3.849	4.736	6.7	21.3
6 30	15 24.87	-24 37.8	2.275	3.091	13.1	21.6	6 30	15 31.97	-18 39.0	3.952	4.745	8.4	21.4
169687	2002 <i>JT</i> ₁₃₃		5 21.2 39°64'	2.3°/22.2	17		325425	2009 <i>OZ</i> ₅		5 21.2 305°16'	1.2°/20.7	17	
4 21	16 17.77	-26 22.6	1.187	2.083	16.6	19.7	4 21	16 15.77	-19 14.0	1.390	2.290	14.4	20.5
5 1	16 11.81	-26 13.4	1.139	2.094	11.9	19.4	5 1	16 10.47	-18 46.7	1.307	2.268	10.2	20.2
5 11	16 3.11	-25 49.9	1.111	2.105	6.8	19.2	5 11	16 2.58	-18 12.8	1.247	2.245	5.4	19.9
5 21	15 52.98	-25 13.1	1.107	2.117	2.4	18.9	5 21	15 53.02	-17 34.7	1.211	2.223	1.2	19.5
5 31	15 43.07	-24 27.3	1.126	2.129	5.5	19.1	5 31	15 43.13	-16 56.6	1.200	2.201	5.8	19.8
6 10	15 34.90	-23 39.4	1.169	2.142	10.5	19.5	6 10	15 34.35	-16 23.9	1.213	2.179	11.0	20.0
6 20	15 29.50	-22 56.0	1.233	2.156	15.0	19.8	6 20	15 27.81	-16 1.1	1.247	2.158	15.8	20.2
6 30	15 27.37	-22 22.4	1.316	2.170	18.8	20.0	6 30	15 24.32	-15 51.6	1.300	2.137	19.9	20.4
16929	Hurník		5 21.2 131°10'	1.4°/20.4	18		201765	2003 <i>WA</i> ₄₃		5 21.2 202°43'	3.3°/19.5	18	
4 21	16 14.30	-16 24.7	2.443	3.325	9.7	18.8	4 21	16 15.53	-10 21.4	2.379	3.259	10.0	20.4
5 1	16 8.29	-16 4.4	2.382	3.334	6.7	18.6	5 1	16 9.24	-9 59.5	2.308	3.255	7.2	20.2
5 11	16 0.96	-15 42.7	2.348	3.343	3.6	18.4	5 11	16 1.52	-9 40.3	2.263	3.251	4.5	20.0
5 21	15 52.94	-15 21.4	2.341	3.351	1.5	18.3	5 21	15 53.00	-9 26.1	2.246	3.246	3.3	19.9
5 31	15 44.99	-15 2.6	2.364	3.359	3.9	18.5	5 31	15 44.45	-9 19.1	2.258	3.241	5.3	20.1
6 10	15 37.83	-14 48.4	2.414	3.367	7.1	18.7	6 10	15 36.65	-9 20.8	2.297	3.235	8.2	20.2
6 20	15 32.03	-14 40.5	2.490	3.374	9.9	18.9	6 20	15 30.20	-9 31.9	2.361	3.229	11.0	20.4
6 30	15 27.98	-14 40.0	2.588	3.382	12.3	19.0	6 30	15 25.57	-9 52.5	2.446	3.222	13.4	20.6
507417	2012 <i>PH</i> ₁₇		5 21.2 321°57'	3.1°/22.4	17		421115	2013 <i>QE</i> ₇₅		5 21.2 276°87'	1.4°/21.7	17	
4 21	16 17.54	-27 22.3	1.614	2.494	13.9	21.3	4 21	16 19.22	-23 17.8	1.631	2.514	13.6	20.5
5 1	16 11.44	-27 43.8	1.542	2.487	10.2	21.1	5 1	16 12.71	-23 32.8	1.546	2.496	9.8	20.3
5 11	16 2.94	-27 54.4	1.492	2.480	6.2	20.8	5 11	16 3.69	-23 40.6	1.484	2.478	5.4	20.0
5 21	15 52.99	-27 52.9	1.467	2.474	3.1	20.6	5 21	15 53.06	-23 40.7	1.448	2.459	1.4	19.7
5 31	15 42.88	-27 40.2	1.468	2.468	5.1	20.7	5 31	15 42.07	-23 34.0	1.438	2.440	4.8	19.8
6 10	15 33.93	-27 19.7	1.495	2.462	9.2	20.9	6 10	15 32.09	-23 23.5	1.455	2.421	9.5	20.1
6 20	15 27.18	-26 56.4	1.544	2.456	13.2	21.2	6 20	15 24.24	-23 13.2	1.494	2.402	13.9	20.3
6 30	15 23.30	-26 35.4	1.613	2.451	16.7	21.4	6 30	15 19.29	-23 7.2	1.553	2.382	17.6	20.5
386168	2007 <i>UH</i> ₂₄		5 21.2 224°41'	1.2°/20.6	17		487614	2015 <i>MD</i> ₆₀		5 21.2 120°85'	3.1°/21.2	17	
4 21	16 15.04	-17 35.0	2.233	3.116	10.4	21.7	4 21	16 33.78	- 9 8.9	1.087	1.973	18.7	20.7
5 1	16 9.02	-17 17.2	2.158	3.111	7.3	21.5	5 1	16 23.42	-10 35.7	1.032	1.983	13.4	20.4
5 11	16 1.44	-16 56.8	2.109	3.105	3.8	21.2	5 11	16 9.41	-12 17.0	0.999	1.992	7.5	20.1
5 21	15 52.97	-16 35.6	2.088	3.099	1.2	21.0	5 21	15 53.20	-14 8.2	0.992	2.001	3.1	19.9
5 31	15 44.45	-16 15.7	2.095	3.092	4.1	21.2	5 31	15 36.88	-16 2.9	1.012	2.010	7.2	20.2
6 10	15 36.73	-15 59.8	2.129	3.086	7.6	21.4	6 10	15 22.57	-17 55.5	1.058	2.018	12.9	20.5
6 20	15 30.49	-15 49.9	2.189	3.079	10.9	21.6	6 20	15 11.75	-19 42.9	1.126	2.026	18.0	20.8
6 30	15 26.20	-15 47.8	2.270	3.072	13.6	21.8	6 30	15 5.15	-21 25.1	1.212	2.033	22.1	21.1
330693	2008 <i>JL</i> ₂₈		5 21.2 57°24'	4.2°/18.8	17		77914	2001 <i>UE</i> ₁₈₈		5 21.2 286°85'	1.6°/19.8	18	
4 21	16 15.13	-13 32.7	1.555	2.453	13.2	20.3	4 21	16 8.04	-11 46.6	4.390	5.267	5.9	19.1
5 1	16 9.38	-12 13.6	1.500	2.457	9.4	20.1	5 1	16 3.60	-11 44.0	4.318	5.265	4.1	19.0
5 11	16 1.68	-10 53.6	1.469	2.461	5.6	19.8	5 11	15 58.46	-11 42.8	4.273	5.263	2.4	18.8
5 21	15 52.97	- 9 38.7	1.463	2.465	4.3	19.8	5 21	15 52.95	-11 43.8	4.258	5.261	1.6	18.8
5 31	15 44.39	- 8 35.1	1.484	2.470	7.1	19.9	5 31	15 47.42	-11 47.7	4.273	5.260	2.8	18.9
6 10	15 37.01	- 7 47.7	1.530	2.474	11.0	20.2	6 10	15 42.24	-11 55.3	4.316	5.258	4.6	19.0
6 20	15 31.61	- 7 18.9	1.597	2.478	14.6	20.4	6 20	15 37.74	-12 7.0	4.387	5.256	6.3	19.1
6 30	15 28.68	- 7 9.0	1.683	2.483	17.7	20.6	6 30	15 34.16	-12 23.0	4.481	5.254	7.8	19.2
387542	2000 <i>WA</i> ₂₄		5 21.2 220°07'	1.4°/22.1	18		283223	2010 <i>PS</i>					

EPHEMERIDES

5 21.2

5 21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
38109	1999 <i>JQ</i> ₂₄		5 21.2 310°83	5°3/22.2	18		311231	Anuradhapura		5 21.3 141°13	1°2/20.8	17	
4 21	16 19.71	-28 17.5	1.223	2.111	16.8	17.9	4 21	16 19.62	-17 58.5	1.607	2.496	13.4	21.1
5 1	16 14.10	-29 19.4	1.134	2.082	12.8	17.5	5 1	16 12.60	-17 43.7	1.548	2.503	9.4	20.9
5 11	16 4.92	-30 12.1	1.066	2.053	8.4	17.2	5 11	16 3.44	-17 25.6	1.513	2.510	4.9	20.6
5 21	15 53.11	-30 50.1	1.021	2.024	5.3	16.9	5 21	15 53.12	-17 6.1	1.504	2.516	1.2	20.4
5 31	15 40.33	-31 10.0	0.999	1.996	7.5	16.9	5 31	15 42.87	-16 47.9	1.522	2.521	5.1	20.6
6 10	15 28.64	-31 13.3	0.999	1.968	12.4	17.1	6 10	15 33.89	-16 34.5	1.566	2.527	9.5	20.9
6 20	15 19.81	-31 5.5	1.020	1.941	17.5	17.3	6 20	15 27.03	-16 28.5	1.633	2.531	13.4	21.2
6 30	15 15.06	-30 54.5	1.057	1.915	22.1	17.5	6 30	15 22.85	-16 31.9	1.720	2.536	16.7	21.4
342909	2008 <i>YK</i> ₁₃₄		5 21.2 209°69	0°6/20.9	18		230368	2002 <i>EY</i> ₁₅₂		5 21.3 172°09	3°2/22.7	17	
4 21	16 15.91	-19 22.7	2.083	2.966	11.1	21.7	4 21	16 18.31	-29 10.1	1.865	2.733	12.9	20.6
5 1	16 9.73	-19 6.7	2.011	2.963	7.7	21.5	5 1	16 11.71	-29 21.8	1.796	2.734	9.5	20.4
5 11	16 1.86	-18 46.6	1.964	2.960	4.0	21.3	5 11	16 3.01	-29 21.5	1.750	2.734	6.0	20.2
5 21	15 53.04	-18 24.0	1.945	2.957	0.6	21.0	5 21	15 53.11	-29 8.5	1.730	2.735	3.3	20.0
5 31	15 44.19	-18 1.2	1.954	2.953	4.1	21.3	5 31	15 43.18	-28 44.1	1.738	2.735	4.8	20.1
6 10	15 36.23	-17 41.2	1.990	2.949	7.8	21.5	6 10	15 34.36	-28 12.3	1.771	2.735	8.3	20.3
6 20	15 29.88	-17 26.5	2.050	2.945	11.2	21.7	6 20	15 27.55	-27 37.8	1.829	2.735	11.8	20.5
6 30	15 25.65	-17 19.3	2.133	2.941	14.1	21.9	6 30	15 23.30	-27 5.5	1.908	2.735	14.9	20.7
62862	2000 <i>UE</i> ₈₁		5 21.2 110°60	1°4/20.5	18		192919	1999 <i>YH</i> ₁₀		5 21.3 98°43	1°1/20.6	17	
4 21	16 14.34	-16 8.0	2.388	3.271	9.9	19.5	4 21	16 15.47	-18 49.7	1.889	2.777	11.8	20.7
5 1	16 8.39	-15 56.8	2.327	3.279	6.9	19.3	5 1	16 9.47	-18 17.8	1.828	2.783	8.2	20.5
5 11	16 1.06	-15 44.8	2.292	3.287	3.6	19.1	5 11	16 1.73	-17 41.7	1.792	2.788	4.2	20.3
5 21	15 53.03	-15 33.2	2.285	3.295	1.4	19.0	5 21	15 53.09	-17 3.8	1.782	2.794	1.1	20.1
5 31	15 45.04	-15 24.1	2.307	3.303	3.9	19.2	5 31	15 44.52	-16 27.6	1.800	2.799	4.5	20.3
6 10	15 37.84	-15 19.1	2.356	3.311	7.1	19.4	6 10	15 36.98	-15 56.7	1.845	2.804	8.4	20.5
6 20	15 32.02	-15 19.7	2.431	3.318	10.0	19.6	6 20	15 31.18	-15 33.9	1.914	2.809	11.9	20.8
6 30	15 28.00	-15 27.0	2.528	3.326	12.5	19.8	6 30	15 27.60	-15 21.2	2.003	2.815	14.8	21.0
30273	Samepstein		5 21.3 255°49	1°4/20.6	17		299537	2006 <i>DC</i> ₅₀		5 21.3 231°98	5°1/15.2	18	
4 21	16 18.98	-18 53.5	1.559	2.450	13.7	19.0	4 21	16 6.37	+ 6 18.5	4.427	5.263	6.6	20.7
5 1	16 12.46	-18 17.5	1.477	2.433	9.7	18.7	5 1	16 2.45	+ 6 55.8	4.374	5.262	5.7	20.7
5 11	16 3.53	-17 35.0	1.419	2.415	5.1	18.4	5 11	15 57.89	+ 7 25.2	4.346	5.262	5.1	20.6
5 21	15 53.09	-16 48.6	1.386	2.397	1.4	18.1	5 21	15 53.00	+ 7 45.0	4.345	5.261	5.2	20.6
5 31	15 42.43	-16 2.8	1.380	2.379	5.6	18.3	5 31	15 48.12	+ 7 53.9	4.371	5.261	5.8	20.7
6 10	15 32.86	-15 22.7	1.400	2.360	10.4	18.6	6 10	15 43.59	+ 7 51.5	4.422	5.260	6.8	20.7
6 20	15 25.43	-14 52.9	1.442	2.340	14.9	18.8	6 20	15 39.71	+ 7 38.1	4.495	5.259	7.9	20.8
6 30	15 20.85	-14 36.4	1.503	2.320	18.6	19.0	6 30	15 36.70	+ 7 14.5	4.589	5.259	8.9	20.9
83509	2001 <i>SR</i> ₁₂₇		5 21.3 120°29	0°6/21.6	18		496756	2016 <i>UN</i> ₄₉		5 21.3 274°99	0°2/21.1	16	
4 21	16 15.14	-22 54.3	2.127	3.007	11.0	19.9	4 21	16 13.45	-21 55.6	2.318	3.198	10.2	22.2
5 1	16 9.16	-22 41.5	2.060	3.009	7.8	19.7	5 1	16 7.96	-21 16.9	2.234	3.185	7.2	22.0
5 11	16 1.55	-22 22.1	2.018	3.012	4.1	19.5	5 11	16 0.95	-20 31.3	2.176	3.171	3.7	21.7
5 21	15 53.05	-21 57.3	2.003	3.015	0.6	19.2	5 21	15 53.08	-19 40.9	2.145	3.157	0.2	21.4
5 31	15 44.58	-21 29.4	2.016	3.018	3.7	19.5	5 31	15 45.15	-18 48.7	2.143	3.143	3.7	21.7
6 10	15 37.03	-21 1.4	2.057	3.020	7.4	19.7	6 10	15 37.99	-17 58.7	2.169	3.129	7.2	21.9
6 20	15 31.08	-20 36.7	2.122	3.023	10.7	19.9	6 20	15 32.24	-17 14.4	2.220	3.115	10.5	22.1
6 30	15 27.21	-20 17.9	2.209	3.025	13.5	20.1	6 30	15 28.39	-16 38.6	2.293	3.101	13.3	22.2
500853	2013 <i>HT</i> ₁₂₀		5 21.3 265°19	2°8/19.9	17		393176	2013 <i>CF</i> ₆₉		5 21.3 177°58	4°0/18.5	18	
4 21	16 17.51	-16 42.3	1.467	2.364	14.0	21.5	4 21	16 12.55	- 7 56.0	2.580	3.460	9.3	21.2
5 1	16 11.45	-15 45.5	1.391	2.349	9.9	21.2	5 1	16 7.07	- 7 14.8	2.517	3.460	6.9	21.0
5 11	16 3.00	-14 43.0	1.338	2.335	5.4	20.9	5 11	16 0.38	- 6 37.4	2.480	3.461	4.7	20.9
5 21	15 53.10	-13 39.6	1.311	2.320	2.8	20.7	5 21	15 53.06	- 6 6.6	2.471	3.461	4.1	20.8
5 31	15 43.05	-12 41.1	1.310	2.304	6.5	20.9	5 31	15 45.77	- 5 45.1	2.490	3.462	5.7	20.9
6 10	15 34.16	-11 53.6	1.333	2.289	11.3	21.1	6 10	15 39.15	- 5 34.4	2.536	3.462	8.1	21.1
6 20	15 27.45	-11 21.3	1.378	2.273	15.6	21.3	6 20	15 33.73	- 5 35.3	2.607	3.461	10.5	21.2
6 30	15 23.59	-11 6.3	1.442	2.257	19.4	21.5	6 30	15 29.91	- 5 47.4	2.699	3.461	12.6	21.4
93478	2000 <i>TQ</i> ₁₉		5 21.3 260°91	2°5/20.2	18		338667	2003 <i>SW</i> ₃₆₁		5 21.3 224°74	1°3/21.9	18	
4 21	16 16.77	-14 25.5	1.819	2.709	12.1	19.9	4 21	16 17.52	-24 10.9	2.201	3.073	11.0	21.5
5 1	16 10.57	-14 8.5	1.744	2.698	8.6	19.6	5 1	16 10.93	-24 16.4	2.121	3.066	7.9	21.3
5 11	16 2.41	-13 51.5	1.692	2.687	4.7	19.4	5 11	16 2.55	-24 15.1	2.066	3.057	4.4	21.1
5 21	15 53.09	-13 36.7	1.667	2.675	2.5	19.2	5 21	15 53.12	-24 6.9	2.038	3.049	1.3	20.8
5 31	15 43.64	-13 26.8	1.670	2.664	5.4	19.4	5 31	15 43.58	-23 53.2	2.039	3.040	3.8	21.0
6 10	15 35.11	-13 24.3	1.698	2.653	9.4	19.6	6 10	15 34.87	-23 36.5	2.068	3.031	7.4	21.2
6 20	15 28.36	-13 30.9	1.751	2.641	13.1	19.8	6 20	15 27.78	-23 19.9	2.122	3.021	10.8	21.4
6 30	15 23.98	-13 47.5	1.823	2.629	16.3	20.0	6 30	15 22.85	-23 6.7	2.198	3.011	13.6	21.6
158231	2001 <i>SJ</i> ₂₅₆		5 21.3 198°72	0°9/22.1	18		67159	2000 <i>AC</i> ₂₀₀		5 21.3 180°96	6°2/17.4	18	
4 21	16 8.24	-25 13.2	4.442	5.305	6.1	20.4	4 21	16 14.83	- 1 43.4	2.371	3.239	10.5	19.9
5 1	16 3.79	-25 13.4	4.365	5.304	4.3	20.3	5 1	16 8.71	- 0 52.9	2.312	3.240	8.2	19.7
5 11	15 58.60	-25 9.6	4.315	5.304	2.5	20.2	5 11	16 1.25	- 0 10.9	2.279	3.241	6.5	19.6
5 21	15 53.00	-25 2.3	4.294	5.303	0.9	20.0	5 21	15 53.09	+ 0 19.1	2.273	3.241	6.3	19.6
5 31	15 47.38	-24 52.2	4.303	5.303	2.0	20.1	5 31	15 44.96	+ 0 34.1	2.294	3.240	7.7	19.7
6 10	15 42.15	-24 40.5	4.341	5.302	3.9	20.3	6 10	15 37.60	+ 0 33.1	2.341	3.239	9.9	19.8
6 20	15 37.64	-24 28.6	4.407	5.302	5.7	20.4	6 20	15 31.57	+ 0 16.3	2.411	3.238	12.2	20.0
6 30	15 34.11	-24 17.6	4.497	5.301	7.3	20.5	6 30	15 27.29	- 0 14.7	2.501	3.236	14.2	20.1
316199	2010 <i>MA</i> ₃₇		5 21.3 263°65	0°1/21.3	18		475795	2006 <i>XU</i> ₃₆		5 21.3 46°6			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
231330	2006 <i>DE</i> ₆₆		5 21.3 137°45	6°1/18.0	17		292833	2006 <i>UP</i> ₂₈₁		5 21.3 87°41	0°1/21.3	17	
4 21	16 16.40	-1 50.8	2.292	3.158	10.8	21.1	4 21	16 19.74	-20 48.3	1.597	2.484	13.6	21.2
5 1	16 9.75	-1 12.3	2.243	3.171	8.4	20.9	5 1	16 12.64	-20 48.7	1.547	2.500	9.5	21.0
5 11	16 1.76	-0 43.1	2.221	3.184	6.5	20.8	5 11	16 3.44	-20 43.5	1.521	2.517	5.0	20.7
5 21	15 53.11	-0 26.3	2.225	3.196	6.1	20.8	5 21	15 53.17	-20 33.5	1.520	2.533	0.2	20.4
5 31	15 44.57	-0 24.2	2.257	3.207	7.5	20.9	5 31	15 43.06	-20 21.1	1.547	2.548	4.6	20.8
6 10	15 36.91	-0 37.2	2.315	3.218	9.7	21.1	6 10	15 34.31	-20 9.5	1.600	2.564	9.0	21.1
6 20	15 30.68	-1 4.6	2.396	3.228	12.0	21.3	6 20	15 27.74	-20 1.8	1.676	2.580	12.8	21.3
6 30	15 26.28	-1 44.7	2.498	3.238	14.1	21.4	6 30	15 23.85	-20 0.7	1.772	2.595	16.0	21.6
235174	2003 <i>SM</i> ₆₁		5 21.3 223°18	1°1/21.8	18		113728	2002 <i>TR</i> ₁₄₂		5 21.3 268°31	2°7/22.2	18	
4 21	16 17.42	-23 45.7	2.259	3.131	10.8	21.1	4 21	16 21.16	-26 21.6	1.729	2.602	13.5	19.7
5 1	16 10.82	-23 48.0	2.178	3.123	7.7	20.9	5 1	16 14.15	-26 47.7	1.637	2.580	9.9	19.5
5 11	16 2.48	-23 43.9	2.122	3.114	4.2	20.7	5 11	16 4.55	-27 4.9	1.568	2.557	5.9	19.2
5 21	15 53.13	-23 33.3	2.094	3.105	1.1	20.4	5 21	15 53.21	-27 11.2	1.526	2.533	2.8	18.9
5 31	15 43.66	-23 17.7	2.094	3.095	3.7	20.6	5 31	15 41.40	-27 6.6	1.510	2.509	5.1	19.0
6 10	15 35.00	-22 59.8	2.123	3.085	7.3	20.8	6 10	15 30.52	-26 53.7	1.521	2.485	9.4	19.2
6 20	15 27.91	-22 42.5	2.177	3.074	10.6	21.0	6 20	15 21.75	-26 37.1	1.556	2.460	13.6	19.4
6 30	15 22.93	-22 28.8	2.253	3.063	13.4	21.2	6 30	15 15.91	-26 21.8	1.610	2.434	17.3	19.6
216444	2009 <i>FX</i> ₃₀		5 21.3 89°70	0°7/20.9	18		331922	2004 <i>RA</i> ₂₁₄		5 21.3 274°88	2°9/22.9	18	
4 21	16 20.10	-19 56.1	1.438	2.330	14.5	20.7	4 21	16 17.62	-30 13.9	1.866	2.732	13.0	21.1
5 1	16 12.99	-19 35.8	1.391	2.347	10.1	20.5	5 1	16 11.37	-29 46.4	1.774	2.712	9.7	20.8
5 11	16 3.62	-19 9.8	1.368	2.364	5.2	20.3	5 11	16 2.92	-29 3.0	1.706	2.691	6.0	20.6
5 21	15 53.15	-18 40.4	1.369	2.381	0.7	20.0	5 21	15 53.16	-28 4.0	1.664	2.670	3.0	20.3
5 31	15 42.93	-18 11.2	1.397	2.398	5.1	20.4	5 31	15 43.24	-26 52.5	1.649	2.649	4.6	20.4
6 10	15 34.22	-17 46.4	1.450	2.414	9.8	20.7	6 10	15 34.35	-25 34.3	1.661	2.627	8.6	20.6
6 20	15 27.88	-17 29.7	1.526	2.430	13.8	20.9	6 20	15 27.43	-24 16.2	1.698	2.605	12.5	20.8
6 30	15 24.38	-17 23.2	1.621	2.446	17.2	21.2	6 30	15 23.11	-23 4.8	1.756	2.583	15.9	20.9
205725	2002 <i>AT</i> ₁₁₄		5 21.3 231°09	2°5/22.4	17		155016	2005 <i>QS</i> ₁₉		5 21.3 167°05	0°5/21.5	17	
4 21	16 20.57	-27 28.4	1.642	2.516	14.0	20.4	4 21	16 18.43	-22 37.2	2.081	2.956	11.4	21.3
5 1	16 13.58	-27 23.3	1.563	2.507	10.3	20.1	5 1	16 11.49	-22 23.6	2.013	2.961	8.0	21.1
5 11	16 4.12	-27 5.3	1.508	2.497	6.1	19.9	5 11	16 2.80	-22 3.2	1.971	2.965	4.3	20.9
5 21	15 53.17	-26 33.9	1.478	2.487	2.6	19.6	5 21	15 53.17	-21 37.1	1.956	2.968	0.5	20.6
5 31	15 42.07	-25 51.7	1.475	2.476	4.9	19.7	5 31	15 43.57	-21 7.7	1.970	2.971	3.9	20.9
6 10	15 32.19	-25 3.6	1.498	2.464	9.3	20.0	6 10	15 34.97	-20 38.3	2.012	2.973	7.7	21.1
6 20	15 24.56	-24 15.9	1.545	2.452	13.5	20.2	6 20	15 28.10	-20 12.4	2.079	2.975	11.1	21.3
6 30	15 19.87	-23 34.2	1.612	2.440	17.1	20.4	6 30	15 23.45	-19 52.9	2.167	2.976	13.9	21.5
374275	2005 <i>NS</i> ₅₅		5 21.3 283°05	1°3/20.6	17		499882	2011 <i>FU</i> ₆₇		5 21.3 64°57	2°4/20.2	17	
4 21	16 17.19	-20 1.8	1.692	2.581	12.9	21.2	4 21	16 16.60	-14 46.7	1.701	2.593	12.6	21.8
5 1	16 11.19	-19 10.6	1.597	2.552	9.1	20.9	5 1	16 10.44	-14 28.0	1.639	2.595	8.9	21.5
5 11	16 2.90	-18 10.1	1.526	2.523	4.8	20.5	5 11	16 2.33	-14 9.3	1.602	2.597	4.9	21.3
5 21	15 53.15	-17 3.3	1.481	2.493	1.3	20.2	5 21	15 53.16	-13 52.9	1.591	2.599	2.4	21.2
5 31	15 43.07	-15 55.2	1.464	2.462	5.4	20.4	5 31	15 44.00	-13 41.6	1.606	2.601	5.5	21.3
6 10	15 33.91	-14 52.1	1.472	2.431	10.1	20.6	6 10	15 35.93	-13 38.0	1.648	2.604	9.5	21.6
6 20	15 26.67	-13 59.4	1.504	2.400	14.5	20.8	6 20	15 29.75	-13 43.7	1.712	2.606	13.1	21.8
6 30	15 22.09	-13 21.2	1.555	2.368	18.3	21.0	6 30	15 26.00	-13 59.4	1.796	2.608	16.3	22.0
346137	2007 <i>VV</i> ₂₂₀		5 21.3 122°48	1°9/20.0	18		307113	2002 <i>CD</i> ₆₈		5 21.3 49°04	5°0/23.4	17	
4 21	16 14.20	-16 19.1	2.240	3.125	10.3	21.2	4 21	16 20.17	-32 3.1	1.333	2.207	16.6	20.1
5 1	16 8.34	-15 35.4	2.181	3.134	7.2	21.0	5 1	16 13.63	-32 14.2	1.273	2.211	12.6	19.9
5 11	16 1.07	-14 49.7	2.147	3.142	3.9	20.8	5 11	16 4.22	-32 6.2	1.234	2.215	8.3	19.7
5 21	15 53.10	-14 4.7	2.142	3.150	2.0	20.7	5 21	15 53.20	-31 37.4	1.218	2.219	5.2	19.5
5 31	15 45.22	-13 23.9	2.164	3.157	4.5	20.9	5 31	15 42.24	-30 50.4	1.227	2.224	6.5	19.6
6 10	15 38.20	-12 50.2	2.215	3.165	7.7	21.1	6 10	15 32.94	-29 51.9	1.260	2.228	10.5	19.8
6 20	15 32.65	-12 25.8	2.289	3.172	10.7	21.3	6 20	15 26.43	-28 50.3	1.314	2.233	14.6	20.1
6 30	15 28.95	-12 11.9	2.386	3.179	13.3	21.5	6 30	15 23.33	-27 53.5	1.388	2.237	18.3	20.3
320720	2008 <i>DN</i> ₇₄		5 21.3 9°50	1°5/20.7	17		128950	2004 <i>TA</i> ₁₃₂		5 21.3 126°97	3°8/18.8	17	
4 21	16 15.43	-17 54.2	1.214	2.122	15.5	20.3	4 21	16 15.41	-11 21.4	2.121	3.006	10.8	20.1
5 1	16 10.18	-17 39.4	1.160	2.123	10.8	20.0	5 1	16 9.17	-10 17.1	2.069	3.018	7.7	19.9
5 11	16 2.38	-17 21.2	1.127	2.125	5.7	19.7	5 11	16 1.50	-9 14.4	2.043	3.031	4.9	19.8
5 21	15 53.13	-17 2.0	1.117	2.128	1.5	19.5	5 21	15 53.14	-8 17.5	2.045	3.042	3.9	19.7
5 31	15 43.92	-16 45.6	1.130	2.132	5.9	19.8	5 31	15 44.91	-7 30.3	2.075	3.054	6.0	19.9
6 10	15 36.16	-16 36.0	1.167	2.136	11.0	20.1	6 10	15 37.63	-6 55.7	2.131	3.064	9.0	20.1
6 20	15 30.88	-16 35.9	1.225	2.142	15.6	20.3	6 20	15 31.88	-6 35.2	2.212	3.075	11.8	20.3
6 30	15 28.68	-16 47.0	1.301	2.148	19.3	20.6	6 30	15 28.07	-6 28.9	2.313	3.085	14.2	20.5
406509	2007 <i>VT</i> ₁₅₀		5 21.3 200°63	1°3/20.7	17		287397	2002 <i>VA</i> ₉₁		5 21.3 285°67	1°9/20.1	17	
4 21	16 18.92	-18 26.1	1.733	2.620	12.7	21.9	4 21	16 13.95	-17 34.6	1.955	2.845	11.3	20.7
5 1	16 12.10	-17 59.9	1.663	2.617	8.9	21.7	5 1	16 8.49	-16 41.1	1.877	2.832	7.9	20.5
5 11	16 3.22	-17 29.2	1.618	2.614	4.7	21.4	5 11	16 1.31	-15 42.7	1.824	2.819	4.3	20.2
5 21	15 53.16	-16 56.4	1.599	2.610	1.3	21.2	5 21	15 53.13	-14 43.0	1.797	2.807	2.0	20.0
5 31	15 43.07	-16 24.7	1.608	2.606	5.0	21.4	5 31	15 44.90	-13 46.4	1.799	2.794	5.0	20.2
6 10	15 34.08	-15 58.1	1.643	2.601	9.3	21.7	6 10	15 37.54	-12 57.3	1.827	2.781	8.8	20.4
6 20	15 27.07	-15 39.8	1.701	2.596	13.2	21.9	6 20	15 31.79	-12 19.3	1.879	2.768	12.4	20.6
6 30	15 22.60	-15 32.0	1.780	2.590	16.5	22.1	6 30	15 28.19	-11 54.4	1.951	2.756	15.4	20.8
181938	1999 <i>TB</i> ₁₆₁		5 21.3 237°90	1°9/19.9	18		64468	2001 <i>VG</i> ₄₁					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
235218	2003 <i>SX</i> ₂₃₀		5 21.3 244°04	3°9/19.1	17		462796	2010 <i>PY</i> ₁		5 21.3 273°24	0°8/20.9	17	
4 21	16 15.00	-10 47.0	2.005	2.893	11.2	20.6	4 21	16 19.34	-19 31.3	1.570	2.459	13.7	21.5
5 1	16 9.14	-10 5.2	1.934	2.884	8.1	20.4	5 1	16 12.89	-19 14.0	1.480	2.435	9.7	21.2
5 11	16 1.61	-9 25.4	1.888	2.876	5.1	20.2	5 11	16 3.90	-18 50.6	1.414	2.410	5.1	20.9
5 21	15 53.14	-8 51.1	1.868	2.867	4.0	20.1	5 21	15 53.25	-18 22.9	1.373	2.385	0.8	20.5
5 31	15 44.62	-8 25.8	1.876	2.859	6.2	20.2	5 31	15 42.18	-17 53.7	1.358	2.359	5.3	20.8
6 10	15 36.95	-8 12.2	1.910	2.850	9.5	20.4	6 10	15 32.10	-17 27.4	1.370	2.332	10.4	21.0
6 20	15 30.85	-8 11.4	1.968	2.840	12.6	20.6	6 20	15 24.14	-17 8.4	1.403	2.305	15.0	21.2
6 30	15 26.81	-8 23.7	2.045	2.831	15.4	20.8	6 30	15 19.09	-16 59.9	1.456	2.278	18.9	21.4
414181	2008 <i>CJ</i> ₃₃		5 21.3 135°96	0°4/21.4	16		185432	2006 <i>XO</i> ₂₆		5 21.3 53°67	0°5/20.9	17	
4 21	16 19.80	-22 8.0	1.797	2.677	12.7	22.5	4 21	16 13.50	-21 12.1	2.176	3.060	10.6	19.9
5 1	16 12.59	-21 57.7	1.738	2.688	8.9	22.2	5 1	16 7.97	-20 28.1	2.110	3.062	7.4	19.7
5 11	16 3.41	-21 40.6	1.703	2.698	4.7	22.0	5 11	16 0.95	-19 38.0	2.069	3.065	3.8	19.5
5 21	15 53.19	-21 17.6	1.696	2.708	0.4	21.7	5 21	15 53.16	-18 44.3	2.056	3.068	0.5	19.2
5 31	15 43.08	-20 51.5	1.716	2.717	4.3	22.0	5 31	15 45.43	-17 50.6	2.071	3.071	3.9	19.5
6 10	15 34.17	-20 25.8	1.763	2.726	8.4	22.3	6 10	15 38.60	-17 0.8	2.114	3.074	7.4	19.7
6 20	15 27.27	-20 4.2	1.834	2.734	12.1	22.5	6 20	15 33.26	-16 18.4	2.181	3.076	10.6	19.9
6 30	15 22.86	-19 49.7	1.926	2.741	15.2	22.8	6 30	15 29.87	-15 45.8	2.270	3.079	13.4	20.1
33719	1999 <i>LA</i> ₂₇		5 21.3 290°46	5°9/19.1	18		200074	2194 <i>T</i> ₋₂		5 21.3 255°02	4°7/23.2	18	
4 21	16 17.27	-5 30.1	1.707	2.592	13.0	16.9	4 21	16 20.24	-32 35.4	2.031	2.882	12.7	20.7
5 1	16 11.07	-5 12.4	1.629	2.574	9.9	16.7	5 1	16 13.24	-33 11.1	1.944	2.868	9.8	20.5
5 11	16 2.77	-5 3.7	1.575	2.555	6.9	16.4	5 11	16 3.97	-33 34.2	1.882	2.854	6.8	20.3
5 21	15 53.18	-5 7.4	1.546	2.537	5.9	16.3	5 21	15 53.25	-33 42.2	1.845	2.839	4.8	20.1
5 31	15 43.36	-5 26.3	1.543	2.519	8.0	16.4	5 31	15 42.23	-33 34.7	1.836	2.824	5.7	20.1
6 10	15 34.43	-6 1.2	1.565	2.501	11.5	16.6	6 10	15 32.14	-33 14.2	1.854	2.809	8.6	20.3
6 20	15 27.31	-6 51.4	1.610	2.482	15.0	16.7	6 20	15 24.00	-32 45.6	1.896	2.794	11.9	20.4
6 30	15 22.67	-7 55.0	1.674	2.464	18.1	16.9	6 30	15 18.50	-32 14.2	1.959	2.778	14.8	20.6
468050	2013 <i>RW</i> ₃₂		5 21.3 267°60	1°7/21.9	18		263304	2008 <i>CG</i> ₂₀		5 21.3 3°81	4°2/18.9	18	
4 21	16 20.17	-24 43.0	1.816	2.692	12.8	21.4	4 21	16 13.31	-8 30.3	2.219	3.103	10.4	20.2
5 1	16 13.31	-24 53.7	1.722	2.667	9.3	21.1	5 1	16 7.79	-7 56.9	2.156	3.103	7.6	20.0
5 11	16 4.06	-24 56.2	1.651	2.643	5.3	20.8	5 11	16 0.86	-7 27.8	2.119	3.103	5.1	19.8
5 21	15 53.22	-24 49.7	1.607	2.617	1.8	20.5	5 21	15 53.16	-7 5.9	2.109	3.103	4.2	19.8
5 31	15 41.97	-24 35.0	1.590	2.591	4.6	20.7	5 31	15 45.48	-6 53.8	2.126	3.103	6.0	19.9
6 10	15 31.60	-24 15.3	1.601	2.564	9.0	20.9	6 10	15 38.58	-6 53.1	2.170	3.103	8.8	20.0
6 20	15 23.18	-23 54.7	1.635	2.537	13.2	21.1	6 20	15 33.07	-7 4.3	2.237	3.103	11.6	20.2
6 30	15 17.48	-23 37.8	1.690	2.510	16.8	21.2	6 30	15 29.38	-7 27.0	2.325	3.104	14.0	20.4
175370	2005 <i>SH</i> ₁₁₆		5 21.3 339°15	2°5/22.4	17		126415	2002 <i>BZ</i> ₂₃		5 21.3 230°67	3°2/19.9	18	
4 21	16 13.70	-27 1.1	1.652	2.536	13.4	19.2	4 21	16 18.38	-10 57.3	2.126	3.005	11.0	19.8
5 1	16 8.76	-27 5.3	1.575	2.524	9.8	18.9	5 1	16 11.51	-10 49.4	2.046	2.994	7.9	19.6
5 11	16 1.62	-26 58.4	1.522	2.512	5.8	18.7	5 11	16 2.89	-10 44.6	1.992	2.982	4.8	19.4
5 21	15 53.15	-26 40.2	1.493	2.501	2.6	18.4	5 21	15 53.22	-10 44.8	1.966	2.969	3.2	19.2
5 31	15 44.53	-26 12.5	1.489	2.491	4.7	18.6	5 31	15 43.41	-10 51.8	1.968	2.956	5.5	19.4
6 10	15 36.97	-25 39.6	1.511	2.481	8.9	18.8	6 10	15 34.39	-11 6.9	1.998	2.942	8.8	19.5
6 20	15 31.41	-25 6.3	1.556	2.473	12.8	19.0	6 20	15 26.91	-11 30.7	2.053	2.928	12.1	19.7
6 30	15 28.51	-24 37.2	1.621	2.465	16.3	19.2	6 30	15 21.55	-12 3.4	2.129	2.913	14.9	19.9
217559	2007 <i>MS</i> ₁₄		5 21.3 294°15	5°7/19.2	17		134950	2001 <i>CX</i> ₅		5 21.3 30°60	2°1/20.5	17	
4 21	16 17.69	-9 25.7	1.288	2.189	15.2	20.3	4 21	16 18.07	-16 11.8	1.453	2.350	14.1	19.5
5 1	16 11.92	-8 49.1	1.213	2.169	11.3	20.0	5 1	16 11.76	-15 54.4	1.392	2.350	9.9	19.2
5 11	16 3.44	-8 17.5	1.159	2.149	7.3	19.7	5 11	16 3.14	-15 35.4	1.354	2.351	5.3	19.0
5 21	15 53.22	-7 56.0	1.129	2.129	5.8	19.6	5 21	15 53.22	-15 17.2	1.341	2.351	2.1	18.7
5 31	15 42.63	-7 49.5	1.122	2.108	8.8	19.7	5 31	15 43.30	-15 3.2	1.354	2.352	5.8	19.0
6 10	15 33.18	-8 1.2	1.139	2.088	13.3	19.9	6 10	15 34.65	-14 56.5	1.392	2.353	10.4	19.2
6 20	15 26.08	-8 31.8	1.175	2.069	17.9	20.1	6 20	15 28.22	-14 59.3	1.452	2.354	14.5	19.5
6 30	15 22.12	-9 19.9	1.228	2.049	21.8	20.3	6 30	15 24.61	-15 13.0	1.530	2.355	18.0	19.7
506481	2003 <i>SJ</i> ₆₉		5 21.3 146°94	1°8/22.2	17		197181	2003 <i>UU</i> ₂₉₆		5 21.3 195°44	1°6/20.3	18	
4 21	16 17.20	-26 1.7	2.051	2.923	11.7	21.6	4 21	16 15.30	-17 10.2	2.085	2.971	10.9	21.0
5 1	16 10.72	-25 59.5	1.983	2.927	8.4	21.4	5 1	16 9.30	-16 36.2	2.016	2.970	7.6	20.8
5 11	16 2.44	-25 48.2	1.941	2.931	4.8	21.2	5 11	16 1.68	-15 59.2	1.973	2.968	4.0	20.6
5 21	15 53.18	-25 28.1	1.925	2.934	1.8	21.0	5 21	15 53.19	-15 21.9	1.957	2.967	1.6	20.4
5 31	15 43.95	-25 1.4	1.937	2.938	4.0	21.1	5 31	15 44.70	-14 47.3	1.969	2.965	4.5	20.6
6 10	15 35.72	-24 31.2	1.977	2.941	7.6	21.4	6 10	15 37.11	-14 18.7	2.008	2.963	8.1	20.8
6 20	15 29.24	-24 1.7	2.041	2.944	10.9	21.6	6 20	15 31.08	-13 58.6	2.072	2.960	11.4	21.0
6 30	15 25.02	-23 36.3	2.127	2.947	13.8	21.8	6 30	15 27.11	-13 48.5	2.157	2.958	14.2	21.2
157589	2005 <i>UE</i> ₄₄₄		5 21.3 180°59	3°7/22.8	18		267317	2001 <i>TF</i> ₂₁₀		5 21.3 227°21	4°2/23.5	17	R
4 21	16 21.71	-30 6.1	2.147	3.000	12.0	20.2	4 21	16 19.62	-32 52.8	1.940	2.793	13.1	20.7
5 1	16 14.00	-30 42.9	2.073	3.002	9.0	20.0	5 1	16 12.72	-32 53.5	1.859	2.786	10.0	20.5
5 11	16 4.23	-31 9.1	2.024	3.002	5.9	19.8	5 11	16 3.62	-32 38.6	1.802	2.777	6.7	20.3
5 21	15 53.25	-31 22.7	2.003	3.002	3.8	19.6	5 21	15 53.25	-32 7.1	1.770	2.768	4.3	20.1
5 31	15 42.13	-31 23.6	2.010	3.002	4.9	19.7	5 31	15 42.79	-31 20.7	1.766	2.759	5.3	20.2
6 10	15 31.99	-31 14.1	2.045	3.001	7.9	19.9	6 10	15 33.44	-30 23.9	1.788	2.750	8.5	20.3
6 20	15 23.72	-30 58.2	2.105	3.000	11.0	20.1	6 20	15 26.13	-29 23.0	1.836	2.739	11.9	20.5
6 30	15 17.93	-30 40.6	2.187	2.998	13.8	20.3	6 30	15 21.46	-28 24.2	1.904	2.729	15.0	20.7
141479	2002 <i>CA</i> ₂₆₅		5 21.3 336°80	4°5/20.1	18		242616	2005 <i>JA</i> ₁₃₉		5 21.3 26			

EPHEMERIDES

5 21.3

5 21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
418164	2008 AK ₁₁₅		5 21.3 68°80	2°3/20.3	17		25715	Lizmarimako		5 21.3 199°47	2°1/20.3	18	
4 21	16 17.87	-16 25.5	1.435	2.332	14.2	21.2	4 21	16 18.64	-15 30.8	1.923	2.807	11.8	19.8
5 1	16 11.44	-15 53.5	1.388	2.346	9.9	21.0	5 1	16 11.78	-15 6.5	1.852	2.804	8.3	19.6
5 11	16 2.87	-15 19.5	1.364	2.361	5.3	20.8	5 11	16 3.05	-14 40.9	1.806	2.800	4.5	19.3
5 21	15 53.24	-14 46.9	1.366	2.375	2.3	20.6	5 21	15 53.27	-14 16.1	1.787	2.796	2.1	19.1
5 31	15 43.81	-14 19.7	1.393	2.390	5.8	20.9	5 31	15 43.44	-13 55.2	1.797	2.791	5.1	19.3
6 10	15 35.79	-14 1.5	1.445	2.405	10.2	21.2	6 10	15 34.59	-13 40.8	1.833	2.785	8.9	19.5
6 20	15 30.00	-13 54.6	1.519	2.420	14.1	21.4	6 20	15 27.49	-13 35.2	1.893	2.779	12.5	19.7
6 30	15 26.92	-13 59.9	1.613	2.434	17.4	21.7	6 30	15 22.70	-13 39.6	1.975	2.772	15.5	19.9
288025	2003 UL ₂₂₈		5 21.3 135°72	1°7/20.5	17		45234	1999 XA ₂₂₈		5 21.3 151°43	2°4/20.3	18	
4 21	16 19.12	-17 3.0	1.726	2.614	12.8	21.2	4 21	16 19.47	-14 26.9	1.737	2.624	12.7	18.7
5 1	16 12.12	-16 35.5	1.670	2.624	8.9	21.0	5 1	16 12.42	-14 13.6	1.677	2.630	8.9	18.5
5 11	16 3.19	-16 5.3	1.638	2.634	4.7	20.8	5 11	16 3.39	-14 0.6	1.641	2.636	4.9	18.3
5 21	15 53.25	-15 34.9	1.633	2.643	1.8	20.6	5 21	15 53.28	-13 50.0	1.633	2.641	2.4	18.1
5 31	15 43.43	-15 7.7	1.655	2.651	5.1	20.8	5 31	15 43.22	-13 44.1	1.651	2.646	5.4	18.3
6 10	15 34.81	-14 47.1	1.703	2.660	9.2	21.1	6 10	15 34.29	-13 45.3	1.696	2.650	9.4	18.6
6 20	15 28.17	-14 35.5	1.775	2.667	12.8	21.3	6 20	15 27.32	-13 55.0	1.764	2.654	13.1	18.8
6 30	15 24.00	-14 34.4	1.868	2.675	15.9	21.6	6 30	15 22.83	-14 13.8	1.853	2.657	16.1	19.0
159230	2005 XW ₅₉		5 21.3 72°91	0°4/21.4	17		34144	2007 TC ₁₈₆		5 21.3 211°35	0°5/21.0	17	
4 21	16 17.56	-22 23.4	1.655	2.542	13.2	20.8	4 21	16 16.16	-19 10.4	2.262	3.142	10.4	20.9
5 1	16 11.10	-22 6.0	1.604	2.557	9.3	20.6	5 1	16 9.89	-19 4.5	2.187	3.138	7.3	20.7
5 11	16 2.67	-21 41.2	1.576	2.572	4.9	20.4	5 11	16 2.02	-18 55.3	2.138	3.133	3.8	20.5
5 21	15 53.23	-21 10.6	1.574	2.586	0.4	20.0	5 21	15 53.25	-18 43.9	2.117	3.128	0.5	20.2
5 31	15 43.98	-20 37.6	1.599	2.601	4.4	20.4	5 31	15 44.42	-18 31.9	2.124	3.123	3.8	20.5
6 10	15 36.00	-20 6.2	1.650	2.616	8.7	20.7	6 10	15 36.38	-18 21.8	2.159	3.118	7.4	20.7
6 20	15 30.08	-19 40.2	1.725	2.630	12.4	20.9	6 20	15 29.84	-18 15.5	2.219	3.113	10.6	20.9
6 30	15 26.69	-19 22.7	1.820	2.645	15.5	21.2	6 30	15 25.27	-18 15.1	2.302	3.107	13.3	21.0
394760	2008 GH ₁₇		5 21.3 156°68	4°2/18.4	18		11261	Krisbecker		5 21.3 242°36	1°2/20.6	18	
4 21	16 12.66	-7 55.7	2.534	3.414	9.5	21.7	4 21	16 15.17	-17 43.6	2.191	3.075	10.6	18.1
5 1	16 7.18	-7 7.9	2.474	3.418	7.0	21.6	5 1	16 9.25	-17 21.6	2.114	3.066	7.4	17.9
5 11	16 0.49	-6 19.9	2.441	3.421	4.8	21.4	5 11	16 1.71	-16 56.7	2.062	3.057	3.9	17.7
5 21	15 53.18	-5 40.8	2.435	3.425	4.2	21.4	5 21	15 53.25	-16 30.6	2.037	3.048	1.2	17.4
5 31	15 45.91	-5 11.5	2.458	3.428	5.8	21.5	5 31	15 44.72	-16 6.0	2.041	3.038	4.2	17.6
6 10	15 39.35	-4 53.9	2.507	3.431	8.3	21.6	6 10	15 36.98	-15 45.6	2.072	3.028	7.8	17.8
6 20	15 34.01	-4 48.7	2.581	3.433	10.7	21.8	6 20	15 30.72	-15 31.8	2.128	3.018	11.1	18.0
6 30	15 30.28	-4 55.7	2.676	3.436	12.8	22.0	6 30	15 26.46	-15 26.3	2.205	3.008	13.9	18.2
28060	1998 OL ₈		5 21.3 228°41	3°9/18.7	18		75754	2000 AX ₁₆₁		5 21.3 107°86	0°1/21.3	17	
4 21	16 12.51	-7 59.4	2.621	3.500	9.2	18.5	4 21	16 19.07	-21 22.7	1.650	2.536	13.3	20.0
5 1	16 7.11	-7 22.9	2.550	3.494	6.8	18.4	5 1	16 12.19	-21 3.3	1.596	2.549	9.3	19.8
5 11	16 0.48	-6 50.1	2.506	3.488	4.6	18.2	5 11	16 3.26	-20 37.2	1.565	2.561	4.8	19.5
5 21	15 53.18	-6 23.6	2.490	3.481	4.0	18.2	5 21	15 53.30	-20 6.1	1.561	2.573	0.1	19.2
5 31	15 45.86	-6 5.9	2.501	3.474	5.6	18.2	5 31	15 43.48	-19 33.3	1.584	2.585	4.5	19.6
6 10	15 39.17	-5 58.7	2.540	3.467	8.0	18.4	6 10	15 34.96	-19 3.1	1.633	2.596	8.9	19.8
6 20	15 33.65	-6 2.5	2.603	3.460	10.5	18.5	6 20	15 28.54	-18 39.1	1.705	2.608	12.7	20.1
6 30	15 29.70	-6 17.3	2.688	3.452	12.6	18.7	6 30	15 24.71	-18 24.1	1.798	2.618	15.9	20.3
239213	2006 QS ₅₅		5 21.3 248°93	0°5/21.7	18		4464	Vulcano		5 21.3 287°15	16°9/22.4	18	
4 21	16 10.90	-23 15.5	3.740	4.607	7.0	21.5	4 21	16 34.57	-46 14.4	1.125	1.947	22.6	16.4
5 1	16 5.81	-23 7.6	3.648	4.591	5.0	21.3	5 1	16 26.57	-49 15.4	1.063	1.938	20.0	16.2
5 11	15 59.76	-22 55.6	3.583	4.575	2.7	21.2	5 11	16 12.55	-51 50.9	1.019	1.930	17.9	16.0
5 21	15 53.16	-22 40.0	3.547	4.559	0.6	21.0	5 21	15 53.60	-53 42.5	0.995	1.922	16.9	15.9
5 31	15 46.50	-22 22.0	3.541	4.542	2.4	21.1	5 31	15 32.69	-54 37.3	0.990	1.913	17.5	15.9
6 10	15 40.27	-22 3.2	3.565	4.525	4.7	21.2	6 10	15 13.87	-54 36.4	1.004	1.905	19.4	16.0
6 20	15 34.90	-21 45.1	3.616	4.507	6.9	21.4	6 20	15 0.33	-53 53.1	1.034	1.897	22.1	16.1
6 30	15 30.72	-21 29.6	3.691	4.490	8.9	21.5	6 30	14 53.67	-52 46.1	1.079	1.890	24.8	16.3
423661	2005 YR ₁₂₃		5 21.3 106°15	1°6/20.6	17		295979	2008 YX ₄₂		5 21.3 344°91	1°3/21.9	17	
4 21	16 17.74	-16 10.7	1.831	2.719	12.1	21.5	4 21	16 16.06	-24 55.2	1.871	2.751	12.3	20.8
5 1	16 11.11	-16 1.3	1.775	2.729	8.5	21.3	5 1	16 10.09	-24 41.0	1.802	2.751	8.8	20.6
5 11	16 2.65	-15 50.8	1.743	2.739	4.5	21.1	5 11	16 2.21	-24 17.6	1.758	2.750	4.8	20.3
5 21	15 53.24	-15 41.0	1.738	2.748	1.7	20.9	5 21	15 53.29	-23 46.0	1.739	2.750	1.3	20.1
5 31	15 43.92	-15 33.9	1.761	2.758	4.8	21.1	5 31	15 44.36	-23 8.8	1.748	2.750	4.1	20.3
6 10	15 35.67	-15 32.0	1.810	2.767	8.7	21.4	6 10	15 36.48	-22 30.3	1.783	2.749	8.1	20.5
6 20	15 29.27	-15 36.7	1.883	2.776	12.2	21.6	6 20	15 30.44	-21 54.6	1.842	2.749	11.7	20.7
6 30	15 25.18	-15 49.4	1.977	2.785	15.1	21.8	6 30	15 26.76	-21 25.4	1.923	2.749	14.8	20.9
499719	2011 BM ₁		5 21.3 206°00	1°3/20.6	17		367071	2006 PK ₁₅		5 21.3 324°55	2°9/20.2	17	
4 21	16 18.28	-17 34.1	2.100	2.980	11.1	22.6	4 21	16 13.87	-16 7.2	1.129	2.042	15.9	20.7
5 1	16 11.44	-17 11.6	2.024	2.975	7.8	22.4	5 1	16 9.56	-15 33.7	1.054	2.020	11.3	20.3
5 11	16 2.84	-16 46.1	1.973	2.968	4.1	22.1	5 11	16 2.37	-14 56.6	1.001	1.999	6.2	20.0
5 21	15 53.25	-16 19.3	1.951	2.961	1.3	21.9	5 21	15 53.31	-14 20.0	0.969	1.978	3.0	19.7
5 31	15 43.60	-15 53.9	1.957	2.954	4.4	22.1	5 31	15 43.86	-13 49.6	0.960	1.959	7.2	19.9
6 10	15 34.84	-15 32.9	1.991	2.945	8.2	22.3	6 10	15 35.67	-13 30.9	0.972	1.940	12.8	20.1
6 20	15 27.70	-15 18.7	2.049	2.936	11.6	22.5	6 20	15 30.02	-13 27.7	1.004	1.923	18.0	20.4
6 30	15 22.73	-15 13.3	2.129	2.926	14.5	22.7	6 30	15 27.77	-13 41.7	1.052	1.907	22.4	20.6
503005	2015 FK ₁₀₂		5 21.3 74°37	0°7/21.7	17		161776	2006 UJ ₇		5 21.3 158°94	2°9/19.4	17	
4 21	16 16.84	-24 31.0	1.775	2.657	1								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
484553	2008 <i>GJ</i> ₁₄₀		5 21.3 13°06'	2°5'/19.1	18		405807	2006 <i>BQ</i> ₅₄		5 21.3 120°13'	3°4'/22.7	16	
4 21	16 7.99	- 8 13.4	4.089	4.964	6.3	20.9	4 21	16 21.87	-28 44.7	1.452	2.328	15.4	21.6
5 1	16 3.67	- 8 1.7	4.023	4.965	4.6	20.8	5 1	16 14.61	-28 52.3	1.394	2.336	11.3	21.4
5 11	15 58.62	- 7 52.9	3.984	4.966	3.0	20.7	5 11	16 4.73	-28 45.2	1.357	2.344	6.9	21.1
5 21	15 53.20	- 7 48.0	3.974	4.967	2.5	20.6	5 21	15 53.42	-28 22.6	1.346	2.352	3.5	20.9
5 31	15 47.77	- 7 48.2	3.992	4.968	3.6	20.7	5 31	15 42.20	-27 47.0	1.360	2.359	5.5	21.1
6 10	15 42.73	- 7 54.1	4.040	4.969	5.2	20.8	6 10	15 32.54	-27 3.9	1.399	2.366	9.7	21.3
6 20	15 38.40	- 8 6.0	4.113	4.970	6.9	21.0	6 20	15 25.45	-26 20.1	1.461	2.373	13.8	21.6
6 30	15 35.04	- 8 24.0	4.209	4.971	8.4	21.1	6 30	15 21.53	-25 41.5	1.543	2.380	17.3	21.8
309834	2009 <i>BT</i> ₁₈₄		5 21.3 180°62'	2°7'/19.9	16		198330	2004 <i>TJ</i> ₃₆₆		5 21.3 155°67'	0°3'/21.2	17	
4 21	16 19.50	-15 12.5	1.723	2.610	12.8	21.8	4 21	16 16.72	-20 55.6	2.055	2.936	11.3	21.3
5 1	16 12.48	-14 29.5	1.659	2.612	9.0	21.6	5 1	16 10.35	-20 31.7	1.989	2.940	7.9	21.1
5 11	16 3.46	-13 44.6	1.619	2.613	5.0	21.4	5 11	16 2.30	-20 2.3	1.949	2.944	4.1	20.9
5 21	15 53.34	-13 1.3	1.606	2.613	2.8	21.2	5 21	15 53.36	-19 29.0	1.936	2.948	0.3	20.5
5 31	15 43.26	-12 23.7	1.620	2.612	5.8	21.4	5 31	15 44.46	-18 54.6	1.951	2.952	4.0	20.9
6 10	15 34.32	-11 55.7	1.661	2.611	9.8	21.6	6 10	15 36.53	-18 22.7	1.994	2.955	7.8	21.1
6 20	15 27.35	-11 39.8	1.725	2.609	13.5	21.8	6 20	15 30.28	-17 56.4	2.061	2.958	11.1	21.3
6 30	15 22.88	-11 37.1	1.809	2.607	16.7	22.1	6 30	15 26.16	-17 38.1	2.150	2.960	14.0	21.5
306273	2011 <i>SZ</i> ₆		5 21.3 271°41'	5°5'/17.5	18		151293	2002 <i>CN</i> ₂₆		5 21.3 241°95'	5°7'/24.3	18	R
4 21	16 13.06	- 6 25.1	2.105	2.990	10.9	21.2	4 21	16 20.25	-36 39.5	1.902	2.743	13.9	19.1
5 1	16 7.75	- 5 16.2	2.037	2.980	8.3	21.0	5 1	16 13.34	-36 48.5	1.820	2.733	11.0	18.9
5 11	16 0.93	- 4 11.9	1.994	2.971	6.1	20.8	5 11	16 4.08	-36 39.0	1.761	2.724	8.0	18.7
5 21	15 53.27	- 3 16.7	1.978	2.961	5.7	20.8	5 21	15 53.41	-36 9.0	1.726	2.714	5.9	18.5
5 31	15 45.58	- 2 35.2	1.989	2.952	7.5	20.9	5 31	15 42.63	-35 19.5	1.718	2.703	6.4	18.5
6 10	15 38.68	- 2 10.0	2.025	2.942	10.2	21.0	6 10	15 33.05	-34 15.3	1.736	2.693	9.0	18.7
6 20	15 33.19	- 2 2.0	2.084	2.932	13.0	21.2	6 20	15 25.65	-33 3.5	1.779	2.682	12.3	18.8
6 30	15 29.61	- 2 10.7	2.162	2.923	15.4	21.4	6 30	15 21.07	-31 51.4	1.843	2.671	15.3	19.0
389184	2009 <i>BS</i> ₁₆₉		5 21.3 297°15'	4°9'/18.7	17		205735	2002 <i>AM</i> ₁₆₄		5 21.3 81°86'	3°0'/20.1	18	
4 21	16 13.88	- 7 41.8	1.999	2.886	11.3	20.7	4 21	16 19.71	-14 45.8	1.358	2.256	14.8	20.4
5 1	16 8.37	- 6 59.8	1.935	2.881	8.4	20.5	5 1	16 12.81	-14 13.0	1.315	2.273	10.4	20.1
5 11	16 1.27	- 6 22.7	1.895	2.877	5.8	20.3	5 11	16 3.65	-13 40.1	1.295	2.290	5.7	19.9
5 21	15 53.29	- 5 54.4	1.881	2.873	5.0	20.3	5 21	15 53.40	-13 10.9	1.299	2.307	3.1	19.8
5 31	15 45.29	- 5 37.9	1.894	2.868	6.9	20.4	5 31	15 43.41	-12 49.3	1.329	2.324	6.4	20.0
6 10	15 38.14	- 5 35.3	1.932	2.864	9.8	20.6	6 10	15 34.94	-12 38.5	1.383	2.340	10.8	20.3
6 20	15 32.51	- 5 47.0	1.994	2.860	12.8	20.7	6 20	15 28.85	-12 40.1	1.459	2.357	14.8	20.6
6 30	15 28.89	- 6 12.3	2.075	2.856	15.4	20.9	6 30	15 25.60	-12 54.5	1.554	2.373	18.1	20.9
87786	2000 <i>SV</i> ₁₁₆		5 21.3 313°73'	0°3'/21.2	18		321747	2010 <i>MW</i> ₁₀₆		5 21.3 252°23'	2°5'/19.7	18	
4 21	16 16.36	-19 29.7	1.446	2.343	14.1	19.1	4 21	16 13.43	-12 43.6	2.654	3.535	9.1	21.3
5 1	16 10.97	-19 33.5	1.362	2.320	10.0	18.7	5 1	16 7.86	-12 19.0	2.571	3.520	6.4	21.1
5 11	16 3.00	-19 33.3	1.301	2.298	5.3	18.4	5 11	16 0.97	-11 55.0	2.514	3.505	3.8	20.9
5 21	15 53.34	-19 29.8	1.264	2.276	0.3	18.0	5 21	15 53.34	-11 33.8	2.486	3.490	2.5	20.8
5 31	15 43.28	-19 24.9	1.252	2.254	5.2	18.3	5 31	15 45.61	-11 17.3	2.486	3.474	4.4	20.9
6 10	15 34.24	-19 21.8	1.265	2.233	10.4	18.5	6 10	15 38.48	-11 7.5	2.514	3.458	7.3	21.0
6 20	15 27.38	-19 23.8	1.299	2.213	15.1	18.7	6 20	15 32.51	-11 5.8	2.568	3.442	10.0	21.2
6 30	15 23.52	-19 33.6	1.352	2.193	19.1	18.9	6 30	15 28.15	-11 12.8	2.643	3.425	12.4	21.3
93622	2000 <i>UJ</i> ₇₁		5 21.3 250°16'	1°1'/21.9	18		55651	4043 <i>P-L</i>		5 21.3 288°53'	3°3'/19.2	18	
4 21	16 17.08	-24 26.6	1.881	2.760	12.3	19.7	4 21	16 13.37	-13 13.8	2.034	2.924	11.0	18.5
5 1	16 10.88	-24 11.6	1.803	2.752	8.8	19.5	5 1	16 8.07	-12 18.7	1.961	2.914	7.8	18.2
5 11	16 2.69	-23 47.5	1.750	2.743	4.8	19.2	5 11	16 1.15	-11 22.9	1.913	2.904	4.7	18.0
5 21	15 53.33	-23 15.2	1.723	2.734	1.1	18.9	5 21	15 53.34	-10 30.1	1.892	2.895	3.4	17.9
5 31	15 43.89	-22 37.3	1.723	2.725	4.2	19.1	5 31	15 45.48	- 9 44.7	1.899	2.885	5.7	18.1
6 10	15 35.44	-21 58.0	1.750	2.715	8.3	19.4	6 10	15 38.45	- 9 10.1	1.931	2.875	9.1	18.2
6 20	15 28.84	-21 21.6	1.801	2.706	12.0	19.6	6 20	15 32.93	- 8 48.5	1.988	2.866	12.3	18.4
6 30	15 24.66	-20 52.1	1.874	2.696	15.3	19.8	6 30	15 29.41	- 8 40.9	2.065	2.856	15.1	18.6
276939	2004 <i>TL</i> ₂₁₄		5 21.3 75°63'	3°2'/19.5	17		209516	2004 <i>RY</i> ₂₈₇		5 21.3 216°73'	3°6'/19.5	17	
4 21	16 16.14	-14 23.1	1.735	2.627	12.4	20.3	4 21	16 18.41	-13 56.9	1.596	2.489	13.3	20.2
5 1	16 9.91	-13 23.5	1.691	2.647	8.7	20.1	5 1	16 11.91	-13 0.7	1.528	2.483	9.5	19.9
5 11	16 2.00	-12 23.8	1.673	2.666	5.0	20.0	5 11	16 3.27	-12 3.0	1.484	2.477	5.5	19.7
5 21	15 53.31	-11 28.4	1.681	2.686	3.3	19.9	5 21	15 53.41	-11 8.4	1.466	2.471	3.7	19.5
5 31	15 44.86	-10 41.6	1.716	2.705	5.9	20.1	5 31	15 43.51	-10 22.0	1.475	2.464	6.7	19.7
6 10	15 37.59	-10 7.2	1.777	2.724	9.5	20.4	6 10	15 34.75	- 9 48.4	1.509	2.457	10.8	19.9
6 20	15 32.17	- 9 46.8	1.860	2.743	12.8	20.6	6 20	15 28.03	- 9 30.2	1.565	2.449	14.7	20.1
6 30	15 28.99	- 9 40.8	1.964	2.762	15.5	20.8	6 30	15 23.92	- 9 28.3	1.641	2.441	18.0	20.3
354817	2005 <i>WF</i> ₇₆		5 21.3 314°40'	1°3'/22.1	17		195177	2002 <i>CE</i> ₂₅₀		5 21.3 329°37'	2°3'/20.4	17	
4 21	16 13.66	-25 53.1	2.097	2.974	11.3	20.3	4 21	16 14.29	-16 23.9	1.423	2.326	13.9	19.9
5 1	16 8.34	-25 29.7	2.016	2.963	8.1	20.0	5 1	16 9.35	-15 58.5	1.351	2.311	9.8	19.6
5 11	16 1.31	-24 56.5	1.960	2.952	4.6	19.8	5 11	16 2.07	-15 30.5	1.301	2.298	5.3	19.3
5 21	15 53.31	-24 14.7	1.931	2.942	1.4	19.6	5 21	15 53.38	-15 3.1	1.275	2.285	2.3	19.1
5 31	15 45.25	-23 27.2	1.930	2.932	3.8	19.7	5 31	15 44.50	-14 40.2	1.275	2.273	6.0	19.3
6 10	15 38.05	-22 37.9	1.955	2.922	7.5	19.9	6 10	15 36.74	-14 25.7	1.298	2.262	10.7	19.5
6 20	15 32.46	-21 51.3	2.005	2.912	10.9	20.1	6 20	15 31.10	-14 22.5	1.343	2.251	15.1	19.7
6 30	15 28.98	-21 11.1	2.077	2.902	13.9	20.3	6 30	15 28.25	-14 32.0	1.406	2.242	18.8	20.0
496780	2017 <i>EF</i> ₂		5 21.3 345°90'	23°9'/ 5.6	18		489016	2005					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
386402	2008 <i>UL</i> ₂₀₀		5 21.3 253°14	0°5/21.1	17		232533	2003 <i>SC</i> ₄₃		5 21.3 302°02	2°7/22.8	18	
4 21	16 16.47	-20 15.5	2.017	2.899	11.4	21.6	4 21	16 16.66	-28 51.7	1.774	2.647	13.2	19.7
5 1	16 10.37	-19 53.4	1.934	2.886	8.0	21.4	5 1	16 10.73	-28 39.0	1.699	2.641	9.7	19.5
5 11	16 2.42	-19 25.9	1.877	2.873	4.2	21.1	5 11	16 2.68	-28 12.7	1.648	2.635	5.9	19.3
5 21	15 53.40	-18 54.5	1.847	2.859	0.5	20.8	5 21	15 53.42	-27 33.4	1.623	2.629	2.8	19.0
5 31	15 44.24	-18 22.0	1.845	2.845	4.2	21.1	5 31	15 44.11	-26 43.7	1.624	2.624	4.6	19.1
6 10	15 35.94	-17 51.9	1.869	2.830	8.2	21.3	6 10	15 35.93	-25 48.7	1.651	2.618	8.5	19.4
6 20	15 29.30	-17 27.5	1.919	2.815	11.8	21.5	6 20	15 29.74	-24 54.1	1.702	2.613	12.3	19.6
6 30	15 24.87	-17 11.4	1.989	2.800	14.9	21.7	6 30	15 26.15	-24 5.4	1.774	2.608	15.5	19.8
170076	2002 <i>WK</i> ₂		5 21.3 247°75	0°0/21.3	17		148453	2000 <i>YO</i> ₆₆		5 21.3 148°98	6°2/15.5	18	
4 21	16 15.30	-21 26.7	2.194	3.074	10.7	20.9	4 21	16 12.13	+ 2 19.2	3.072	3.923	8.8	20.4
5 1	16 9.40	-21 6.1	2.114	3.065	7.5	20.7	5 1	16 6.67	+ 3 30.8	3.025	3.933	7.3	20.3
5 11	16 1.86	-20 39.8	2.060	3.055	4.0	20.5	5 11	16 0.24	+ 4 33.6	3.006	3.942	6.3	20.3
5 21	15 53.38	-20 9.0	2.034	3.046	0.1	20.1	5 21	15 53.35	+ 5 24.2	3.013	3.951	6.4	20.3
5 31	15 44.82	-19 36.3	2.035	3.036	3.8	20.4	5 31	15 46.51	+ 5 59.9	3.049	3.959	7.4	20.3
6 10	15 37.08	-19 4.9	2.064	3.026	7.5	20.6	6 10	15 40.27	+ 6 19.6	3.110	3.967	8.9	20.5
6 20	15 30.85	-18 38.0	2.118	3.016	10.8	20.8	6 20	15 35.04	+ 6 23.7	3.193	3.974	10.5	20.6
6 30	15 26.66	-18 18.2	2.194	3.005	13.7	21.0	6 30	15 31.15	+ 6 13.3	3.297	3.981	11.9	20.7
133663	2003 <i>UP</i> ₁₇₉		5 21.3 241°77	3°0/19.7	18		411909	2012 <i>FK</i> ₆₃		5 21.3 51°91	8°4/17.1	17	
4 21	16 15.23	-13 14.3	2.025	2.912	11.1	20.1	4 21	16 15.41	- 4 9.6	1.379	2.274	14.8	20.6
5 1	16 9.37	-12 39.8	1.953	2.906	7.9	19.9	5 1	16 9.77	- 2 37.5	1.339	2.284	11.5	20.4
5 11	16 1.85	-12 5.5	1.907	2.899	4.6	19.7	5 11	16 2.10	- 1 16.5	1.321	2.294	8.9	20.3
5 21	15 53.38	-11 34.5	1.887	2.892	3.0	19.6	5 21	15 53.42	- 0 14.2	1.328	2.305	8.6	20.3
5 31	15 44.86	-11 9.8	1.895	2.885	5.4	19.7	5 31	15 44.94	+ 0 23.6	1.358	2.316	10.7	20.5
6 10	15 37.20	-10 54.2	1.930	2.877	8.9	19.9	6 10	15 37.78	+ 0 34.8	1.410	2.327	13.8	20.7
6 20	15 31.10	-10 49.3	1.988	2.870	12.2	20.1	6 20	15 32.72	+ 0 20.8	1.482	2.339	16.9	20.9
6 30	15 27.07	-10 55.9	2.067	2.862	15.0	20.3	6 30	15 30.23	- 0 15.0	1.570	2.350	19.6	21.1
203715	2002 <i>PY</i> ₁₆₃		5 21.3 227°68	1°3/20.6	18		336421	2008 <i>UW</i> ₂₁₃		5 21.3 145°47	0°2/21.2	18	
4 21	16 15.98	-17 2.3	2.143	3.026	10.8	20.3	4 21	16 16.36	-22 23.4	2.219	3.096	10.8	21.2
5 1	16 9.86	-16 46.7	2.068	3.020	7.6	20.1	5 1	16 9.97	-21 37.0	2.155	3.104	7.5	21.0
5 11	16 2.10	-16 29.1	2.019	3.014	4.0	19.9	5 11	16 2.07	-20 43.4	2.116	3.111	3.9	20.8
5 21	15 53.39	-16 11.0	1.997	3.007	1.3	19.7	5 21	15 53.42	-19 45.1	2.106	3.118	0.2	20.4
5 31	15 44.61	-15 54.8	2.003	3.001	4.3	19.9	5 31	15 44.89	-18 45.9	2.125	3.125	3.7	20.8
6 10	15 36.66	-15 42.8	2.037	2.994	7.9	20.1	6 10	15 37.30	-17 49.9	2.172	3.131	7.3	21.0
6 20	15 30.24	-15 37.2	2.096	2.986	11.2	20.3	6 20	15 31.29	-17 0.8	2.244	3.137	10.5	21.2
6 30	15 25.86	-15 39.4	2.175	2.979	14.1	20.5	6 30	15 27.27	-16 21.4	2.339	3.143	13.2	21.4
198061	2004 <i>RC</i> ₃₂₂		5 21.3 226°24	1°0/21.9	18		198286	2004 <i>TF</i> ₂₉₈		5 21.3 146°96	2°1/22.7	18	
4 21	16 17.61	-24 28.9	2.269	3.139	10.8	21.6	4 21	16 17.44	-28 46.0	1.914	2.783	12.6	19.9
5 1	16 11.03	-24 13.4	2.184	3.128	7.7	21.4	5 1	16 11.02	-28 9.4	1.845	2.786	9.1	19.7
5 11	16 2.72	-23 49.8	2.124	3.116	4.2	21.2	5 11	16 2.72	-27 19.3	1.801	2.789	5.4	19.4
5 21	15 53.41	-23 19.0	2.093	3.104	1.0	20.9	5 21	15 53.45	-26 17.1	1.783	2.792	2.2	19.2
5 31	15 44.01	-22 43.0	2.090	3.091	3.7	21.1	5 31	15 44.28	-25 6.7	1.793	2.794	4.1	19.4
6 10	15 35.43	-22 5.3	2.115	3.077	7.3	21.3	6 10	15 36.26	-23 54.1	1.831	2.797	7.9	19.6
6 20	15 28.41	-21 29.6	2.166	3.063	10.6	21.5	6 20	15 30.14	-22 44.8	1.893	2.799	11.5	19.8
6 30	15 23.48	-20 59.3	2.240	3.048	13.5	21.7	6 30	15 26.41	-21 44.0	1.977	2.801	14.5	20.0
270384	2002 <i>AV</i> ₁₀₇		5 21.3 140°28	2°1/20.2	17		135201	2001 <i>RN</i> ₅₂		5 21.3 225°05	5°0/18.3	17	
4 21	16 17.61	-14 53.4	2.103	2.985	11.0	21.7	4 21	16 14.09	- 5 47.3	2.313	3.191	10.3	20.2
5 1	16 10.86	-14 30.7	2.045	2.996	7.7	21.5	5 1	16 8.39	- 5 5.3	2.245	3.185	7.8	20.0
5 11	16 2.54	-14 7.6	2.013	3.006	4.2	21.3	5 11	16 1.29	- 4 28.9	2.203	3.179	5.6	19.9
5 21	15 53.41	-13 46.2	2.008	3.016	2.1	21.2	5 21	15 53.42	- 4 1.4	2.188	3.172	5.1	19.8
5 31	15 44.36	-13 29.0	2.032	3.025	4.7	21.3	5 31	15 45.52	- 3 45.8	2.200	3.166	6.7	19.9
6 10	15 36.27	-13 18.3	2.083	3.034	8.1	21.6	6 10	15 38.34	- 3 43.7	2.239	3.159	9.3	20.1
6 20	15 29.80	-13 15.6	2.159	3.042	11.3	21.8	6 20	15 32.50	- 3 55.3	2.301	3.152	11.8	20.2
6 30	15 25.38	-13 21.9	2.256	3.049	13.9	22.0	6 30	15 28.44	- 4 19.8	2.384	3.145	14.1	20.4
145508	2006 <i>DO</i> ₅₀		5 21.3 102°40	5°1/18.7	18		166653	2002 <i>TT</i> ₂₀		5 21.3 226°98	0°9/20.8	17 R	
4 21	16 15.50	- 7 41.3	1.876	2.763	11.9	19.6	4 21	16 15.34	-18 41.5	2.154	3.037	10.7	21.2
5 1	16 9.49	- 6 53.0	1.825	2.771	8.8	19.4	5 1	16 9.42	-18 18.1	2.080	3.033	7.5	20.9
5 11	16 1.85	- 6 10.3	1.798	2.780	6.0	19.3	5 11	16 1.88	-17 51.1	2.032	3.028	3.9	20.7
5 21	15 53.39	- 5 37.3	1.797	2.788	5.2	19.2	5 21	15 53.44	-17 22.2	2.011	3.022	0.9	20.5
5 31	15 45.02	- 5 17.3	1.823	2.796	7.2	19.4	5 31	15 44.96	-16 54.1	2.018	3.017	4.1	20.7
6 10	15 37.66	- 5 12.2	1.874	2.805	10.2	19.6	6 10	15 37.31	-16 29.7	2.053	3.011	7.7	20.9
6 20	15 31.96	- 5 22.2	1.948	2.812	13.1	19.8	6 20	15 31.19	-16 11.6	2.112	3.006	11.0	21.1
6 30	15 28.38	- 5 46.3	2.042	2.820	15.7	20.0	6 30	15 27.08	-16 1.8	2.193	3.000	13.9	21.3
366572	2002 <i>SP</i> ₆₁		5 21.3 240°28	1°2/20.8	17		491095	2011 <i>SX</i> ₂₃		5 21.3 201°39	3°5/23.6	18	
4 21	16 18.85	-17 56.8	1.846	2.730	12.2	21.6	4 21	16 17.36	-33 40.2	3.036	3.870	9.4	22.2
5 1	16 12.17	-17 41.3	1.765	2.717	8.6	21.4	5 1	16 10.63	-33 56.1	2.952	3.865	7.2	22.0
5 11	16 3.43	-17 22.3	1.708	2.704	4.5	21.1	5 11	16 2.46	-34 1.7	2.894	3.860	5.1	21.9
5 21	15 53.44	-17 1.5	1.678	2.689	1.2	20.8	5 21	15 53.46	-33 56.2	2.863	3.854	3.6	21.8
5 31	15 43.27	-16 41.6	1.676	2.675	4.8	21.1	5 31	15 44.38	-33 40.0	2.862	3.848	4.1	21.8
6 10	15 34.03	-16 25.5	1.701	2.659	9.0	21.3	6 10	15 35.98	-33 15.2	2.889	3.841	6.1	21.9
6 20	15 26.61	-16 16.3	1.750	2.644	12.9	21.5	6 20	15 28.87	-32 45.0	2.943	3.833	8.4	22.0
6 30	15 21.64	-16 16.0	1.819	2.627	16.2	21.7	6 30	15 23.53	-32 12.8	3.021	3.825	10.5	22.2
380720	2005 <i>QL</i> ₅₈		5 21.3 280°88	0°2/21.4	13 C		291997	20					

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5 21.3

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
509035	2005 <i>SS</i> ₁₉		5 21.3 262°26	3°8/18.9	18		466597	2014 <i>UF</i> ₁₇₀		5 21.3 264°65	0°2/21.4	17	
4 21	16 13.60	- 9 22.4	2.400	3.282	9.8	21.6	4 21	16 20.85	-19 54.1	1.504	2.393	14.2	21.3
5 1	16 8.09	- 8 45.4	2.320	3.267	7.2	21.4	5 1	16 14.04	-20 12.8	1.428	2.382	10.1	21.0
5 11	16 1.16	- 8 11.0	2.267	3.252	4.7	21.2	5 11	16 4.63	-20 28.0	1.376	2.371	5.3	20.7
5 21	15 53.42	- 7 42.2	2.240	3.236	3.9	21.2	5 21	15 53.56	-20 39.2	1.348	2.360	0.3	20.3
5 31	15 45.58	- 7 21.9	2.242	3.220	5.7	21.2	5 31	15 42.20	-20 47.3	1.347	2.349	5.0	20.6
6 10	15 38.40	- 7 12.0	2.271	3.204	8.5	21.4	6 10	15 31.98	-20 54.6	1.371	2.337	10.0	20.9
6 20	15 32.49	- 7 13.7	2.324	3.188	11.3	21.5	6 20	15 24.04	-21 4.1	1.419	2.326	14.5	21.1
6 30	15 28.31	- 7 27.1	2.398	3.171	13.7	21.7	6 30	15 19.13	-21 18.6	1.485	2.314	18.3	21.3
422864	2002 <i>PZ</i> ₈₉		5 21.3 248°18	0°8/21.8	18		475595	2006 <i>UH</i> ₇₇		5 21.3 214°48	0°7/20.8	16	
4 21	16 18.92	-24 42.9	1.883	2.758	12.4	20.6	4 21	16 14.21	-20 7.4	2.365	3.246	10.0	21.9
5 1	16 12.27	-24 7.6	1.794	2.741	8.9	20.4	5 1	16 8.50	-19 27.0	2.291	3.242	7.0	21.7
5 11	16 3.52	-23 21.1	1.730	2.723	4.9	20.1	5 11	16 1.37	-18 41.3	2.243	3.238	3.6	21.4
5 21	15 53.50	-22 24.8	1.693	2.704	0.8	19.7	5 21	15 53.45	-17 52.8	2.223	3.234	0.7	21.2
5 31	15 43.32	-21 22.3	1.684	2.685	4.3	20.0	5 31	15 45.55	-17 4.6	2.231	3.230	3.8	21.4
6 10	15 34.12	-20 19.1	1.702	2.665	8.6	20.2	6 10	15 38.43	-16 20.1	2.268	3.226	7.2	21.6
6 20	15 26.80	-19 20.7	1.745	2.645	12.6	20.4	6 20	15 32.70	-15 42.4	2.330	3.221	10.2	21.8
6 30	15 21.98	-18 31.8	1.809	2.623	16.0	20.6	6 30	15 28.81	-15 13.7	2.414	3.216	12.9	22.0
193585	2001 <i>BB</i> ₂₆		5 21.3 84°29	2°1/22.4	18		90356	2003 <i>HW</i> ₁₂		5 21.3 225°11	5°0/19.1	16	
4 21	16 17.33	-27 16.3	1.828	2.702	12.8	19.7	4 21	16 18.59	-10 15.8	1.553	2.444	13.7	19.9
5 1	16 11.01	-27 3.2	1.767	2.710	9.3	19.5	5 1	16 12.12	- 9 23.6	1.486	2.438	10.0	19.6
5 11	16 2.75	-26 38.7	1.729	2.718	5.4	19.3	5 11	16 3.46	- 8 34.2	1.443	2.431	6.4	19.4
5 21	15 53.47	-26 3.6	1.718	2.727	2.2	19.1	5 21	15 53.54	- 7 52.5	1.425	2.424	5.1	19.3
5 31	15 44.28	-25 20.8	1.734	2.735	4.2	19.3	5 31	15 43.54	- 7 23.2	1.434	2.416	7.7	19.4
6 10	15 36.27	-24 34.9	1.776	2.743	8.1	19.5	6 10	15 34.68	- 7 10.0	1.467	2.408	11.6	19.7
6 20	15 30.20	-23 50.8	1.843	2.751	11.6	19.7	6 20	15 27.87	- 7 13.8	1.522	2.400	15.4	19.9
6 30	15 26.59	-23 12.8	1.931	2.759	14.7	20.0	6 30	15 23.71	- 7 34.4	1.595	2.391	18.7	20.1
504933	2011 <i>CW</i> ₃₅		5 21.3 348°22	5°4/23.6	17		397310	2006 <i>SO</i> ₂₆₈		5 21.3 9°02	0°7/20.9	17	
4 21	16 18.66	-33 5.7	1.516	2.383	15.4	20.5	4 21	16 14.01	-20 46.0	2.021	2.908	11.2	20.6
5 1	16 12.56	-33 27.5	1.448	2.381	11.8	20.3	5 1	16 8.53	-20 1.4	1.954	2.908	7.8	20.4
5 11	16 3.81	-33 31.8	1.402	2.378	8.1	20.1	5 11	16 1.43	-19 10.4	1.912	2.908	4.1	20.2
5 21	15 53.51	-33 16.4	1.379	2.376	5.5	19.9	5 21	15 53.47	-18 16.0	1.897	2.909	0.7	19.9
5 31	15 43.10	-32 42.5	1.382	2.375	6.5	20.0	5 31	15 45.56	-17 21.9	1.910	2.910	4.1	20.2
6 10	15 34.09	-31 55.3	1.409	2.374	9.9	20.2	6 10	15 38.58	-16 32.4	1.950	2.910	7.9	20.4
6 20	15 27.56	-31 1.8	1.458	2.373	13.7	20.4	6 20	15 33.20	-15 51.0	2.014	2.911	11.3	20.6
6 30	15 24.17	-30 9.5	1.527	2.372	17.1	20.6	6 30	15 29.89	-15 20.3	2.099	2.913	14.2	20.8
396141	2013 <i>DW</i> ₇		5 21.3 92°93	2°6/20.0	18		470329	2007 <i>RB</i> ₁₃		5 21.3 302°23	10°4/13.3	16	
4 21	16 14.56	-12 0.0	2.338	3.221	10.0	20.6	4 21	16 13.92	+ 2 52.8	1.744	2.615	13.5	21.2
5 1	16 8.69	-11 50.0	2.277	3.227	7.1	20.5	5 1	16 8.85	+ 4 45.3	1.664	2.581	11.5	21.0
5 11	16 1.43	-11 42.3	2.241	3.232	4.2	20.3	5 11	16 1.81	+ 6 27.7	1.607	2.548	10.5	20.8
5 21	15 53.43	-11 38.4	2.232	3.237	2.7	20.2	5 21	15 53.50	+ 7 51.3	1.575	2.514	10.9	20.8
5 31	15 45.45	-11 40.1	2.252	3.242	4.7	20.3	5 31	15 44.88	+ 8 48.6	1.566	2.480	12.8	20.8
6 10	15 38.25	-11 48.5	2.300	3.247	7.7	20.5	6 10	15 37.03	+ 9 15.4	1.579	2.446	15.5	20.9
6 20	15 32.41	-12 4.4	2.372	3.252	10.5	20.7	6 20	15 30.81	+ 9 11.6	1.610	2.411	18.3	21.0
6 30	15 28.36	-12 28.0	2.466	3.257	12.9	20.9	6 30	15 26.90	+ 8 39.5	1.657	2.378	20.8	21.1
503392	2016 <i>CC</i> ₁₆₃		5 21.3 340°04	6°7/19.1	17		168903	2000 <i>WW</i> ₁₈₈		5 21.3 240°72	1°0/21.8	17	
4 21	16 14.55	- 9 5.4	1.026	1.942	16.9	20.2	4 21	16 19.56	-24 18.9	1.630	2.512	13.7	20.6
5 1	16 10.03	- 8 18.1	0.969	1.931	12.5	19.9	5 1	16 12.95	-23 58.0	1.552	2.501	9.8	20.4
5 11	16 2.63	- 7 37.6	0.930	1.922	8.3	19.6	5 11	16 3.97	-23 26.3	1.497	2.490	5.4	20.1
5 21	15 53.48	- 7 10.7	0.913	1.913	6.8	19.5	5 21	15 53.57	-22 44.9	1.467	2.479	1.1	19.8
5 31	15 44.17	- 7 3.5	0.918	1.906	9.9	19.7	5 31	15 43.03	-21 57.2	1.465	2.467	4.7	20.0
6 10	15 36.33	- 7 19.1	0.943	1.899	14.6	19.9	6 10	15 33.65	-21 8.4	1.489	2.455	9.4	20.2
6 20	15 31.15	- 7 56.8	0.986	1.894	19.2	20.1	6 20	15 26.43	-20 24.1	1.536	2.442	13.6	20.5
6 30	15 29.35	- 8 54.0	1.044	1.890	23.1	20.4	6 30	15 22.02	-19 49.0	1.603	2.430	17.3	20.7
378255	2007 <i>DP</i> ₃₅		5 21.3 247°51	7°3/24.5	18		406543	2007 <i>WM</i> ₈		5 21.3 220°03	1°5/21.9	17	
4 21	16 22.24	-39 4.0	1.887	2.716	14.4	21.3	4 21	16 21.02	-24 38.0	1.827	2.700	12.8	21.6
5 1	16 15.01	-39 46.6	1.806	2.706	11.8	21.1	5 1	16 13.82	-24 39.3	1.747	2.692	9.2	21.4
5 11	16 5.12	-40 10.8	1.746	2.696	9.1	20.9	5 11	16 4.38	-24 31.8	1.691	2.683	5.2	21.1
5 21	15 53.57	-40 12.4	1.712	2.685	7.4	20.7	5 21	15 53.60	-24 15.3	1.662	2.673	1.6	20.8
5 31	15 41.74	-39 50.7	1.703	2.674	7.8	20.7	5 31	15 42.64	-23 51.5	1.661	2.662	4.4	21.0
6 10	15 31.11	-39 9.1	1.719	2.664	10.0	20.9	6 10	15 32.73	-23 24.2	1.687	2.651	8.6	21.2
6 20	15 22.81	-38 14.3	1.759	2.652	12.9	21.0	6 20	15 24.83	-22 57.6	1.738	2.639	12.6	21.5
6 30	15 17.60	-37 14.1	1.819	2.641	15.7	21.2	6 30	15 19.57	-22 36.0	1.809	2.627	15.9	21.6
499624	2010 <i>US</i> ₈₀		5 21.3 152°22	1°4/22.1	17		121470	1999 <i>TJ</i> ₂₂₃		5 21.3 253°10	4°3/18.5	18	
4 21	16 19.19	-25 51.3	1.696	2.574	13.4	22.1	4 21	16 12.94	- 7 39.7	2.413	3.295	9.8	19.7
5 1	16 12.43	-25 25.1	1.632	2.579	9.6	21.9	5 1	16 7.59	- 6 57.6	2.343	3.287	7.3	19.6
5 11	16 3.54	-24 47.3	1.591	2.583	5.4	21.6	5 11	16 0.91	- 6 19.6	2.298	3.279	5.0	19.4
5 21	15 53.52	-23 59.2	1.576	2.587	1.5	21.3	5 21	15 53.48	- 5 48.6	2.281	3.271	4.4	19.4
5 31	15 43.58	-23 4.8	1.588	2.590	4.4	21.6	5 31	15 46.02	- 5 27.7	2.291	3.263	6.1	19.4
6 10	15 34.90	-22 9.4	1.627	2.593	8.7	21.8	6 10	15 39.25	- 5 18.6	2.328	3.255	8.6	19.6
6 20	15 28.34	-21 18.5	1.690	2.596	12.6	22.1	6 20	15 33.72	- 5 22.0	2.389	3.247	11.2	19.7
6 30	15 24.42	-20 36.6	1.773	2.599	15.9	22.3	6 30	15 29.89	- 5 37.7	2.471	3.238	13.5	19.9
277674	2006 <i>BE</i> ₂₂₆		5 21.3 220°39	0°1/21.4	17		153826						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
109201	2001 <i>QH</i> ₇₈		5 21.4 119°88	3°1/22.8	18		420742	2012 <i>TY</i> ₁₄₂		5 21.4 324°63	1°0/22.3	18	
4 21	16 21.91	-29 3.1	2.078	2.935	12.2	19.5	4 21	16 8.82	-25 47.0	3.929	4.792	6.8	21.2
5 1	16 14.08	-29 26.8	2.021	2.953	9.0	19.3	5 1	16 4.43	-25 38.5	3.848	4.788	4.9	21.0
5 11	16 4.35	-29 39.5	1.989	2.970	5.6	19.1	5 11	15 59.18	-25 25.1	3.795	4.784	2.8	20.9
5 21	15 53.61	-29 40.2	1.984	2.987	3.2	19.0	5 21	15 53.47	-25 7.5	3.771	4.780	1.0	20.7
5 31	15 42.96	-29 29.8	2.008	3.003	4.5	19.1	5 31	15 47.74	-24 46.6	3.775	4.776	2.2	20.8
6 10	15 33.46	-29 11.4	2.059	3.019	7.6	19.3	6 10	15 42.45	-24 24.2	3.809	4.772	4.3	21.0
6 20	15 25.89	-28 49.2	2.136	3.033	10.7	19.5	6 20	15 37.97	-24 1.9	3.870	4.768	6.4	21.1
6 30	15 20.75	-28 27.5	2.234	3.048	13.4	19.7	6 30	15 34.60	-23 41.3	3.955	4.764	8.1	21.2
375858	2009 <i>VW</i> ₁₈		5 21.4 176°50	1°0/21.9	17		502627	2015 <i>CU</i> ₂₉		5 21.4 277°45	3°5/22.9	17	
4 21	16 18.38	-24 21.9	2.170	3.041	11.2	22.0	4 21	16 18.68	-29 43.1	1.689	2.560	13.9	21.5
5 1	16 11.57	-24 11.3	2.099	3.043	8.0	21.8	5 1	16 12.43	-29 49.3	1.609	2.548	10.4	21.2
5 11	16 3.05	-23 52.9	2.053	3.045	4.4	21.6	5 11	16 3.77	-29 41.8	1.552	2.536	6.6	21.0
5 21	15 53.58	-23 27.4	2.035	3.046	1.1	21.3	5 21	15 53.64	-29 19.4	1.519	2.524	3.7	20.8
5 31	15 44.11	-22 56.9	2.045	3.046	3.7	21.5	5 31	15 43.30	-28 43.7	1.513	2.512	5.2	20.8
6 10	15 35.59	-22 24.9	2.084	3.046	7.3	21.7	6 10	15 34.10	-27 59.2	1.533	2.499	9.1	21.0
6 20	15 28.73	-21 54.9	2.148	3.046	10.7	22.0	6 20	15 27.06	-27 11.9	1.576	2.487	13.0	21.2
6 30	15 24.03	-21 30.1	2.234	3.045	13.5	22.1	6 30	15 22.87	-26 27.9	1.639	2.475	16.5	21.4
394734	2008 <i>EH</i> ₁₅₃		5 21.4 146°20	0°7/21.7	16		302382	2002 <i>CD</i> ₆₄		5 21.4 108°79	1°6/20.6	18	
4 21	16 15.95	-22 25.5	2.443	3.316	10.0	21.4	4 21	16 15.51	-14 59.1	2.333	3.215	10.1	20.3
5 1	16 9.76	-22 35.4	2.373	3.319	7.1	21.2	5 1	16 9.42	-14 58.4	2.269	3.220	7.1	20.1
5 11	16 2.07	-22 40.6	2.329	3.322	3.8	21.0	5 11	16 1.89	-14 58.0	2.231	3.225	3.8	19.9
5 21	15 53.55	-22 41.1	2.314	3.325	0.8	20.8	5 21	15 53.57	-14 58.9	2.220	3.230	1.6	19.8
5 31	15 45.00	-22 38.1	2.327	3.328	3.3	21.0	5 31	15 45.26	-15 2.6	2.239	3.235	4.1	20.0
6 10	15 37.22	-22 33.5	2.368	3.330	6.6	21.2	6 10	15 37.73	-15 10.4	2.285	3.239	7.3	20.2
6 20	15 30.85	-22 29.5	2.435	3.333	9.6	21.4	6 20	15 31.60	-15 23.3	2.357	3.244	10.3	20.4
6 30	15 26.35	-22 28.2	2.524	3.335	12.1	21.6	6 30	15 27.32	-15 42.2	2.450	3.249	12.8	20.6
216513	2000 <i>ST</i> ₃₃₂		5 21.4 134°04	5°1/17.4	18		62613	2000 <i>SF</i> ₃₃₆		5 21.4 79°15	3°5/23.0	18	
4 21	16 13.01	-4 2.2	2.686	3.557	9.3	20.9	4 21	16 17.56	-30 24.8	2.238	3.095	11.4	19.2
5 1	16 7.42	-3 0.3	2.636	3.568	7.1	20.8	5 1	16 11.13	-30 51.7	2.168	3.097	8.6	19.0
5 11	16 0.73	-2 4.6	2.612	3.579	5.5	20.7	5 11	16 2.89	-31 8.1	2.122	3.100	5.6	18.8
5 21	15 53.50	-1 18.4	2.617	3.590	5.2	20.7	5 21	15 53.61	-31 12.8	2.103	3.102	3.6	18.7
5 31	15 46.36	-0 44.7	2.650	3.600	6.6	20.8	5 31	15 44.27	-31 6.3	2.112	3.105	4.6	18.8
6 10	15 39.91	-0 24.9	2.709	3.610	8.6	20.9	6 10	15 35.83	-30 51.2	2.148	3.107	7.4	19.0
6 20	15 34.62	-0 19.4	2.791	3.619	10.6	21.1	6 20	15 29.07	-30 30.9	2.209	3.110	10.3	19.1
6 30	15 30.84	-0 27.3	2.895	3.628	12.5	21.2	6 30	15 24.52	-30 9.7	2.292	3.112	12.9	19.3
428329	2007 <i>HW</i> ₆₈		5 21.4 33°30	7°2/19.0	15		382903	2004 <i>RB</i> ₇₇		5 21.4 285°95	1°4/21.9	15	
4 21	16 16.32	-4 9.1	1.404	2.297	14.8	20.8	4 21	16 19.12	-23 41.7	1.777	2.657	12.8	21.0
5 1	16 10.47	-3 38.3	1.360	2.307	11.2	20.6	5 1	16 12.77	-23 54.0	1.681	2.629	9.3	20.7
5 11	16 2.55	-3 19.8	1.339	2.317	8.2	20.4	5 11	16 4.02	-23 59.2	1.609	2.602	5.2	20.4
5 21	15 53.56	-3 17.8	1.341	2.329	7.3	20.4	5 21	15 53.67	-23 56.7	1.563	2.574	1.5	20.1
5 31	15 44.73	-3 34.9	1.368	2.340	9.2	20.5	5 31	15 42.87	-23 47.4	1.545	2.546	4.6	20.3
6 10	15 37.20	-4 11.1	1.418	2.353	12.4	20.8	6 10	15 32.89	-23 33.9	1.552	2.518	9.1	20.5
6 20	15 31.77	-5 4.0	1.489	2.366	15.7	21.0	6 20	15 24.83	-23 20.3	1.584	2.489	13.3	20.7
6 30	15 28.96	-6 10.5	1.578	2.379	18.6	21.2	6 30	15 19.47	-23 10.6	1.635	2.461	17.0	20.8
508751	2017 <i>UM</i> ₃₆		5 21.4 208°56	8°3/13.8	17		227961	2007 <i>HO</i> ₁₀		5 21.4 197°16	4°2/23.1	17	R
4 21	16 16.38	+ 1 13.8	2.227	3.087	11.4	21.3	4 21	16 22.18	-31 37.7	2.148	2.996	12.2	21.6
5 1	16 10.02	+ 3 22.5	2.168	3.081	9.5	21.1	5 1	16 14.54	-32 16.9	2.070	2.994	9.3	21.4
5 11	16 2.19	+ 5 22.3	2.137	3.075	8.4	21.1	5 11	16 4.77	-32 44.6	2.017	2.991	6.3	21.2
5 21	15 53.56	+ 7 6.1	2.133	3.068	8.7	21.1	5 21	15 53.70	-32 58.5	1.992	2.987	4.3	21.1
5 31	15 44.92	+ 8 28.0	2.156	3.060	10.3	21.2	5 31	15 42.44	-32 58.1	1.994	2.983	5.3	21.1
6 10	15 37.08	+ 9 24.8	2.205	3.052	12.4	21.3	6 10	15 32.13	-32 46.0	2.024	2.978	8.1	21.3
6 20	15 30.66	+ 9 56.5	2.274	3.043	14.5	21.4	6 20	15 23.72	-32 26.1	2.079	2.973	11.1	21.4
6 30	15 26.13	+ 10 4.8	2.361	3.034	16.4	21.6	6 30	15 17.82	-32 3.7	2.156	2.968	13.9	21.6
122685	2000 <i>SP</i> ₃		5 21.4 130°82	2°1/22.3	17		226074	2002 <i>JD</i> ₁₀₈		5 21.4 323°60	7°6/18.6	18	
4 21	16 21.29	-26 22.0	2.283	3.143	11.1	20.6	4 21	16 17.03	-0 48.0	1.709	2.585	13.4	19.7
5 1	16 13.51	-26 43.4	2.223	3.160	8.0	20.4	5 1	16 10.86	-0 23.8	1.648	2.580	10.6	19.5
5 11	16 4.02	-26 56.7	2.189	3.175	4.7	20.2	5 11	16 2.79	-0 12.9	1.610	2.576	8.3	19.4
5 21	15 53.62	-27 1.1	2.183	3.191	2.2	20.1	5 21	15 53.63	-0 19.3	1.597	2.572	7.7	19.3
5 31	15 43.28	-26 57.4	2.207	3.205	3.8	20.2	5 31	15 44.43	-0 45.4	1.609	2.568	9.3	19.4
6 10	15 33.94	-26 48.0	2.259	3.219	7.0	20.4	6 10	15 36.23	-1 31.0	1.645	2.564	12.1	19.6
6 20	15 26.31	-26 36.2	2.337	3.232	10.1	20.6	6 20	15 29.85	-2 33.9	1.704	2.560	15.0	19.7
6 30	15 20.89	-26 25.2	2.438	3.244	12.6	20.8	6 30	15 25.82	-3 50.7	1.781	2.557	17.7	19.9
147199	2002 <i>VU</i> ₁₀₅		5 21.4 226°59	2°3/22.6	17		242536	2005 <i>BC</i> ₈		5 21.4 89°22	2°5/22.6	17	
4 21	16 18.58	-28 5.4	1.699	2.573	13.6	19.6	4 21	16 17.87	-27 36.2	1.900	2.771	12.5	20.6
5 1	16 12.15	-27 44.2	1.626	2.570	9.9	19.4	5 1	16 11.45	-27 41.0	1.836	2.778	9.1	20.3
5 11	16 3.51	-27 9.3	1.577	2.566	5.9	19.1	5 11	16 3.07	-27 35.2	1.797	2.784	5.5	20.1
5 21	15 53.61	-26 21.2	1.553	2.562	2.4	18.9	5 21	15 53.64	-27 18.6	1.783	2.791	2.6	20.0
5 31	15 43.69	-25 23.5	1.557	2.558	4.6	19.0	5 31	15 44.23	-26 53.1	1.797	2.797	4.3	20.1
6 10	15 34.99	-24 21.9	1.586	2.553	8.8	19.2	6 10	15 35.92	-26 22.5	1.838	2.803	7.9	20.3
6 20	15 28.41	-23 22.5	1.639	2.549	12.7	19.5	6 20	15 29.52	-25 51.0	1.903	2.810	11.4	20.5
6 30	15 24.53	-22 30.8	1.713	2.544	16.1	19.7	6 30	15 25.55	-25 22.8	1.989	2.816	14.3	20.8
118925	2000 <i>VH</i> ₅₉		5 21.4 64°64	5°3/24.8	18		503893	2001 <i>UX</i> ₃₈					

EPHEMERIDES

5 21.4

5 21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
143361	2003 <i>BP</i> ₂		5 21.4	45°22'	2°5'/22.5	17	334413	2002 <i>EO</i> ₃₈		5 21.4	17°97'	4°4'/19.6	17
4 21	16 18.12	-27 3.8	1.478	2.362	14.7	19.2	4 21	16 14.36	-12 3.7	1.338	2.243	14.5	20.1
5 1	16 11.97	-27 1.3	1.422	2.370	10.7	19.0	5 1	16 9.30	-11 22.1	1.288	2.248	10.3	19.9
5 11	16 3.45	-26 46.0	1.388	2.378	6.2	18.8	5 11	16 2.05	-10 43.3	1.261	2.255	6.2	19.7
5 21	15 53.66	-26 18.4	1.378	2.387	2.6	18.6	5 21	15 53.65	-10 12.1	1.258	2.262	4.5	19.6
5 31	15 43.97	-25 41.4	1.395	2.396	4.9	18.7	5 31	15 45.35	-9 52.7	1.279	2.269	7.3	19.7
6 10	15 35.69	-25 0.4	1.436	2.406	9.2	19.0	6 10	15 38.34	-9 48.1	1.323	2.278	11.4	20.0
6 20	15 29.76	-24 20.9	1.500	2.416	13.3	19.3	6 20	15 33.50	-9 59.0	1.388	2.288	15.3	20.3
6 30	15 26.70	-23 47.9	1.584	2.426	16.7	19.5	6 30	15 31.34	-10 24.7	1.472	2.298	18.5	20.5
106280	2000 <i>UQ</i> ₇₂		5 21.4	230°87'	3°3'/23.5	18	68520	2001 <i>VT</i> ₁₉		5 21.4	338°67'	1°5'/21.8	18
4 21	16 16.30	-32 8.9	2.554	3.402	10.5	20.2	4 21	16 17.32	-22 44.3	1.338	2.235	15.1	18.3
5 1	16 10.11	-32 11.8	2.471	3.395	8.0	20.0	5 1	16 11.82	-23 9.4	1.269	2.225	10.8	18.0
5 11	16 2.33	-32 3.4	2.413	3.387	5.3	19.8	5 11	16 3.61	-23 27.8	1.222	2.217	6.0	17.7
5 21	15 53.63	-31 43.2	2.381	3.379	3.4	19.7	5 21	15 53.72	-23 38.7	1.198	2.209	1.6	17.4
5 31	15 44.86	-31 12.2	2.379	3.371	4.2	19.7	5 31	15 43.57	-23 42.8	1.199	2.202	5.2	17.6
6 10	15 36.88	-30 33.5	2.404	3.363	6.7	19.8	6 10	15 34.68	-23 43.0	1.224	2.196	10.3	17.9
6 20	15 30.37	-29 51.0	2.455	3.354	9.4	20.0	6 20	15 28.23	-23 43.2	1.270	2.190	14.9	18.1
6 30	15 25.84	-29 8.8	2.529	3.345	11.9	20.2	6 30	15 24.97	-23 47.3	1.335	2.186	18.8	18.4
516354	2017 <i>BJ</i> ₁₁₂		5 21.4	104°02'	0°6'/20.8	18	317738	2003 <i>SM</i> ₁₂		5 21.4	266°69'	1°4'/21.9	18
4 21	16 8.07	-17 20.6	4.454	5.330	5.8	21.3	4 21	16 20.30	-23 36.2	1.540	2.425	14.2	21.1
5 1	16 3.79	-17 13.6	4.386	5.335	4.0	21.2	5 1	16 13.74	-23 44.7	1.459	2.410	10.2	20.8
5 11	15 58.83	-17 5.7	4.345	5.340	2.1	21.1	5 11	16 4.58	-23 44.9	1.401	2.395	5.7	20.5
5 21	15 53.51	-16 57.7	4.334	5.345	0.6	20.9	5 21	15 53.76	-23 36.4	1.369	2.380	1.5	20.2
5 31	15 48.19	-16 50.4	4.352	5.349	2.2	21.1	5 31	15 42.61	-23 20.7	1.362	2.364	4.9	20.4
6 10	15 43.23	-16 44.8	4.400	5.354	4.1	21.2	6 10	15 32.58	-23 1.5	1.381	2.349	9.8	20.6
6 20	15 38.95	-16 41.8	4.475	5.359	5.9	21.4	6 20	15 24.81	-22 43.3	1.423	2.333	14.3	20.8
6 30	15 35.60	-16 42.1	4.574	5.364	7.4	21.5	6 30	15 20.07	-22 30.7	1.484	2.317	18.1	21.0
236928	2007 <i>TW</i> ₁₉₄		5 21.4	351°25'	1°1'/20.8	17	251883	1999 <i>VB</i> ₇₆		5 21.4	91°50'	0°7'/21.1	17
4 21	16 14.52	-18 51.9	1.663	2.557	12.7	20.2	4 21	16 19.84	-19 24.9	1.542	2.432	13.9	21.1
5 1	16 9.25	-18 27.7	1.597	2.554	8.9	20.0	5 1	16 12.93	-19 11.2	1.492	2.447	9.7	20.8
5 11	16 1.99	-17 59.0	1.554	2.551	4.7	19.7	5 11	16 3.88	-18 52.8	1.465	2.461	5.0	20.6
5 21	15 53.62	-17 28.4	1.537	2.549	1.1	19.4	5 21	15 53.73	-18 31.5	1.464	2.475	0.7	20.3
5 31	15 45.22	-16 59.0	1.547	2.547	4.8	19.7	5 31	15 43.75	-18 10.3	1.489	2.490	4.9	20.7
6 10	15 37.87	-16 34.8	1.581	2.545	9.1	19.9	6 10	15 35.13	-17 52.9	1.540	2.504	9.3	21.0
6 20	15 32.40	-16 18.7	1.639	2.545	13.0	20.2	6 20	15 28.71	-17 42.3	1.614	2.517	13.3	21.2
6 30	15 29.37	-16 12.8	1.717	2.544	16.2	20.4	6 30	15 24.99	-17 40.5	1.708	2.531	16.5	21.5
145741	1995 <i>SM</i> ₇₀		5 21.4	252°11'	0°9'/20.8	18	409146	2003 <i>UT</i> ₉₄		5 21.4	194°62'	1°8'/20.4	17
4 21	16 14.74	-18 39.7	2.425	3.306	9.8	21.0	4 21	16 18.45	-18 12.7	1.703	2.591	12.8	21.2
5 1	16 8.98	-18 15.4	2.341	3.291	6.9	20.7	5 1	16 11.93	-17 25.1	1.635	2.590	9.0	20.9
5 11	16 1.74	-17 47.5	2.282	3.277	3.6	20.5	5 11	16 3.38	-16 32.3	1.592	2.588	4.8	20.7
5 21	15 53.63	-17 17.6	2.251	3.262	0.9	20.3	5 21	15 53.72	-15 37.7	1.576	2.586	1.8	20.5
5 31	15 45.42	-16 48.2	2.249	3.247	3.8	20.5	5 31	15 44.07	-14 45.9	1.586	2.583	5.3	20.7
6 10	15 37.90	-16 22.0	2.275	3.231	7.2	20.7	6 10	15 35.54	-14 1.9	1.623	2.580	9.5	20.9
6 20	15 31.71	-16 1.4	2.326	3.216	10.3	20.8	6 20	15 28.98	-13 29.1	1.684	2.577	13.4	21.2
6 30	15 27.33	-15 48.5	2.399	3.200	13.0	21.0	6 30	15 24.93	-13 9.8	1.764	2.573	16.6	21.4
64807	2001 <i>XD</i> ₂₁₃		5 21.4	3°12'	9°8'/17.7	17	507729	2013 <i>WL</i> ₅₃		5 21.4	280°69'	4°4'/23.7	17
4 21	16 15.24	+ 1 22.3	1.413	2.296	15.3	18.4	4 21	16 18.40	-33 11.1	1.741	2.601	14.1	20.9
5 1	16 9.83	+ 2 11.9	1.364	2.296	12.5	18.2	5 1	16 12.19	-33 4.4	1.662	2.591	10.8	20.6
5 11	16 2.31	+ 2 44.0	1.336	2.296	10.3	18.1	5 11	16 3.65	-32 40.1	1.605	2.582	7.2	20.4
5 21	15 53.65	+ 2 52.9	1.330	2.296	9.9	18.1	5 21	15 53.73	-31 57.4	1.574	2.573	4.6	20.2
5 31	15 45.03	+ 2 35.1	1.348	2.297	11.6	18.2	5 31	15 43.72	-30 58.6	1.568	2.563	5.5	20.3
6 10	15 37.60	+ 1 50.9	1.387	2.299	14.3	18.3	6 10	15 34.92	-29 49.3	1.588	2.554	9.0	20.4
6 20	15 32.23	+ 0 43.7	1.446	2.302	17.3	18.5	6 20	15 28.29	-28 36.7	1.633	2.544	12.6	20.6
6 30	15 29.44	- 0 41.6	1.522	2.305	19.9	18.7	6 30	15 24.47	-27 27.8	1.698	2.535	16.0	20.8
250812	2005 <i>UA</i> ₅₄		5 21.4	288°88'	1°1'/20.8	18	498614	2008 <i>RU</i> ₁₀₁		5 21.4	210°12'	2°5'/20.0	17
4 21	16 14.71	-17 49.7	2.181	3.066	10.6	21.0	4 21	16 16.21	-14 33.1	2.015	2.901	11.2	21.9
5 1	16 9.14	-17 35.9	2.095	3.048	7.4	20.8	5 1	16 10.14	-13 59.7	1.945	2.898	7.9	21.7
5 11	16 1.90	-17 19.5	2.034	3.029	3.9	20.5	5 11	16 2.38	-13 25.6	1.901	2.894	4.5	21.5
5 21	15 53.65	-17 1.8	2.000	3.011	1.1	20.3	5 21	15 53.69	-12 53.4	1.883	2.890	2.6	21.4
5 31	15 45.22	-16 45.2	1.994	2.992	4.1	20.5	5 31	15 44.96	-12 26.4	1.894	2.886	5.1	21.5
6 10	15 37.52	-16 32.0	2.015	2.974	7.8	20.6	6 10	15 37.13	-12 7.4	1.931	2.882	8.7	21.7
6 20	15 31.26	-16 24.6	2.061	2.955	11.2	20.8	6 20	15 30.89	-11 58.4	1.993	2.877	12.0	21.9
6 30	15 26.99	-16 24.7	2.128	2.937	14.1	21.0	6 30	15 26.76	-12 0.3	2.075	2.872	14.8	22.1
24116	1999 <i>VK</i> ₂₄		5 21.4	260°65'	1°9'/20.5	18	474216	2000 <i>UF</i> ₅₆		5 21.4	254°84'	1°2'/20.8	17
4 21	16 18.96	-16 45.2	1.731	2.619	12.7	19.0	4 21	16 17.43	-15 21.4	2.835	3.707	8.8	21.3
5 1	16 12.50	-16 17.4	1.644	2.598	9.0	18.8	5 1	16 10.78	-15 28.8	2.737	3.684	6.2	21.1
5 11	16 3.81	-15 46.3	1.582	2.577	4.9	18.5	5 11	16 2.69	-15 36.2	2.667	3.660	3.4	20.9
5 21	15 53.72	-15 14.1	1.546	2.556	2.0	18.2	5 21	15 53.71	-15 44.3	2.625	3.635	1.2	20.7
5 31	15 43.35	-14 44.5	1.537	2.534	5.4	18.4	5 31	15 44.51	-15 54.1	2.615	3.611	3.6	20.8
6 10	15 33.89	-14 21.2	1.554	2.511	9.9	18.6	6 10	15 35.82	-16 6.5	2.634	3.585	6.6	21.0
6 20	15 26.33	-14 7.5	1.595	2.488	14.0	18.8	6 20	15 28.26	-16 22.6	2.679	3.559	9.5	21.1
6 30	15 21.35	-14 5.5	1.655	2.464	17.5	19.0	6 30	15 22.33	-16 43.3	2.748	3.532	11.9	21.3
95233	2002 <i>CS</i> ₃₇		5 21.4	357°28'	0°8'/20.9	18	210671	2000 <i>QR</i> ₁					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
317853	2003 TR ₁₇		5 21.4 198°88	0°2/21.5	17		250329	2003 SO ₇₆		5 21.4 191°79	1°4/20.6	17	
4 21	16 19.99	-21 53.6	1.889	2.767	12.3	21.9	4 21	16 19.27	-18 4.5	1.940	2.822	11.8	21.4
5 1	16 12.97	-21 36.2	1.815	2.764	8.7	21.7	5 1	16 12.35	-17 31.5	1.869	2.820	8.3	21.2
5 11	16 3.94	-21 11.8	1.766	2.760	4.6	21.4	5 11	16 3.57	-16 54.3	1.823	2.818	4.4	20.9
5 21	15 53.76	-20 41.6	1.743	2.756	0.3	21.1	5 21	15 53.76	-16 15.4	1.805	2.815	1.4	20.7
5 31	15 43.53	-20 8.4	1.750	2.751	4.2	21.4	5 31	15 43.94	-15 38.2	1.815	2.812	4.7	20.9
6 10	15 34.33	-19 36.0	1.783	2.745	8.4	21.6	6 10	15 35.12	-15 6.4	1.852	2.808	8.6	21.2
6 20	15 27.02	-19 8.2	1.841	2.738	12.2	21.8	6 20	15 28.07	-14 43.0	1.914	2.803	12.2	21.4
6 30	15 22.15	-18 48.3	1.920	2.731	15.4	22.0	6 30	15 23.33	-14 29.9	1.997	2.797	15.2	21.6
297832	2002 AJ ₁₈₆		5 21.4 195°56	1°3/20.6	18		66232	1999 CL ₁₃₅		5 21.4 313°44	0°6/21.2	18	
4 21	16 14.99	-15 39.0	3.082	3.956	8.2	21.8	4 21	16 16.44	-20 29.2	1.191	2.096	15.9	19.1
5 1	16 8.86	-15 30.4	3.005	3.952	5.7	21.6	5 1	16 11.46	-20 7.9	1.115	2.077	11.3	18.7
5 11	16 1.59	-15 21.1	2.955	3.948	3.1	21.4	5 11	16 3.57	-19 38.2	1.061	2.059	6.0	18.4
5 21	15 53.68	-15 12.3	2.935	3.944	1.3	21.3	5 21	15 53.77	-19 2.4	1.029	2.041	0.6	17.9
5 31	15 45.73	-15 5.3	2.944	3.939	3.3	21.4	5 31	15 43.61	-18 24.7	1.020	2.023	6.0	18.2
6 10	15 38.35	-15 1.5	2.983	3.933	6.0	21.6	6 10	15 34.74	-17 51.1	1.035	2.006	11.7	18.5
6 20	15 32.02	-15 2.1	3.049	3.927	8.5	21.8	6 20	15 28.45	-17 27.2	1.069	1.990	16.9	18.7
6 30	15 27.15	-15 8.1	3.138	3.921	10.6	21.9	6 30	15 25.57	-17 16.8	1.120	1.975	21.3	19.0
208555	2002 AM ₁₇₈		5 21.4 182°68	2°9/22.7	18		123616	2000 YG ₂₃		5 21.4 102°45	0°6/21.6	17	
4 21	16 22.23	-28 39.0	1.782	2.648	13.5	20.8	4 21	16 20.85	-23 1.3	1.577	2.460	14.0	21.1
5 1	16 14.72	-28 41.1	1.711	2.649	10.0	20.5	5 1	16 13.62	-22 43.4	1.526	2.477	9.8	20.9
5 11	16 4.91	-28 30.4	1.664	2.649	6.1	20.3	5 11	16 4.24	-22 16.9	1.499	2.494	5.2	20.7
5 21	15 53.80	-28 6.2	1.643	2.649	3.0	20.1	5 21	15 53.79	-21 43.3	1.498	2.510	0.7	20.4
5 31	15 42.65	-27 30.6	1.649	2.648	4.8	20.2	5 31	15 43.55	-21 6.2	1.524	2.526	4.5	20.7
6 10	15 32.74	-26 48.1	1.682	2.646	8.7	20.4	6 10	15 34.73	-20 30.4	1.576	2.542	9.0	21.0
6 20	15 25.00	-26 4.4	1.740	2.644	12.4	20.7	6 20	15 28.16	-20 0.1	1.652	2.557	12.9	21.3
6 30	15 20.03	-25 24.8	1.818	2.641	15.7	20.9	6 30	15 24.32	-19 38.6	1.748	2.572	16.1	21.5
198529	2004 XY ₁₀₅		5 21.4 203°53	2°7/22.9	17		224483	2005 VQ ₉₈		5 21.4 150°61	6°4/25.1	17	
4 21	16 17.76	-29 35.6	1.996	2.860	12.3	20.0	4 21	16 21.98	-39 11.2	2.011	2.836	13.8	20.2
5 1	16 11.38	-29 19.5	1.922	2.859	9.1	19.8	5 1	16 14.50	-39 26.5	1.943	2.842	11.1	20.0
5 11	16 3.09	-28 50.3	1.872	2.857	5.6	19.6	5 11	16 4.77	-39 22.4	1.897	2.848	8.4	19.8
5 21	15 53.73	-28 8.6	1.849	2.854	2.8	19.4	5 21	15 53.81	-38 56.9	1.876	2.853	6.6	19.7
5 31	15 44.38	-27 17.0	1.853	2.852	4.3	19.5	5 31	15 42.91	-38 11.1	1.882	2.858	6.8	19.8
6 10	15 36.08	-26 20.1	1.884	2.849	7.8	19.7	6 10	15 33.31	-37 9.7	1.914	2.862	8.9	19.9
6 20	15 29.64	-25 23.2	1.940	2.846	11.2	19.9	6 20	15 25.93	-35 59.7	1.970	2.867	11.6	20.1
6 30	15 25.56	-24 31.4	2.018	2.843	14.2	20.1	6 30	15 21.31	-34 48.3	2.049	2.870	14.2	20.3
254005	2004 FS ₁₀		5 21.4 15°23	1°7/20.7	17		72125	2000 YP ₆₈		5 21.4 82°64	1°7/20.7	18	
4 21	16 15.80	-17 56.9	1.201	2.109	15.6	20.3	4 21	16 19.54	-17 49.9	1.456	2.350	14.3	19.4
5 1	16 10.61	-17 33.3	1.149	2.112	10.9	20.0	5 1	16 12.75	-17 20.1	1.411	2.367	9.9	19.2
5 11	16 2.87	-17 5.7	1.118	2.116	5.7	19.7	5 11	16 3.79	-16 46.8	1.388	2.384	5.2	18.9
5 21	15 53.72	-16 37.4	1.110	2.121	1.7	19.5	5 21	15 53.78	-16 13.1	1.390	2.401	1.7	18.7
5 31	15 44.64	-16 12.7	1.126	2.127	6.0	19.8	5 31	15 43.99	-15 42.8	1.419	2.418	5.4	19.0
6 10	15 37.03	-15 55.9	1.165	2.133	11.1	20.1	6 10	15 35.65	-15 20.0	1.473	2.434	9.9	19.3
6 20	15 31.90	-15 50.1	1.224	2.141	15.6	20.3	6 20	15 29.56	-15 7.4	1.549	2.451	13.8	19.6
6 30	15 29.82	-15 56.8	1.302	2.149	19.3	20.6	6 30	15 26.21	-15 6.3	1.645	2.467	17.1	19.8
9460	McGlynn		5 21.4 179°74	1°2/20.9	18		499775	2011 CZ ₂₇		5 21.4 62°98	1°8/20.5	17	
4 21	16 19.08	-16 10.3	2.192	3.070	10.8	17.7	4 21	16 17.69	-17 47.7	1.514	2.409	13.8	21.2
5 1	16 12.07	-16 15.8	2.122	3.071	7.6	17.5	5 1	16 11.34	-17 8.8	1.472	2.429	9.5	21.0
5 11	16 3.39	-16 20.7	2.078	3.072	4.0	17.3	5 11	16 3.02	-16 26.7	1.453	2.449	5.0	20.8
5 21	15 53.75	-16 25.8	2.062	3.073	1.2	17.1	5 21	15 53.75	-15 44.7	1.459	2.470	1.8	20.6
5 31	15 44.06	-16 32.3	2.075	3.072	4.1	17.3	5 31	15 44.75	-15 7.2	1.492	2.490	5.3	20.9
6 10	15 35.22	-16 41.5	2.116	3.072	7.7	17.5	6 10	15 37.11	-14 38.1	1.550	2.511	9.6	21.2
6 20	15 27.95	-16 54.9	2.182	3.071	10.9	17.7	6 20	15 31.60	-14 20.2	1.631	2.531	13.3	21.5
6 30	15 22.76	-17 13.7	2.271	3.069	13.7	17.9	6 30	15 28.64	-14 14.5	1.731	2.552	16.4	21.7
244162	2001 XQ ₁₅		5 21.4 178°61	0°5/21.6	18		233772	2008 TW ₁₃₀		5 21.4 338°06	2°6/22.3	17	
4 21	16 20.97	-23 33.9	1.760	2.637	13.1	20.7	4 21	16 14.71	-26 1.7	0.961	1.872	18.2	20.2
5 1	16 13.69	-23 4.4	1.691	2.639	9.3	20.5	5 1	16 10.70	-25 58.5	0.897	1.859	13.3	19.9
5 11	16 4.31	-22 25.3	1.647	2.641	5.0	20.2	5 11	16 3.31	-25 39.1	0.851	1.847	7.7	19.5
5 21	15 53.78	-21 38.3	1.629	2.641	0.6	19.9	5 21	15 53.77	-25 3.4	0.826	1.836	2.7	19.2
5 31	15 43.29	-20 47.2	1.640	2.641	4.4	20.2	5 31	15 43.94	-24 15.4	0.822	1.827	6.3	19.4
6 10	15 34.00	-19 56.9	1.677	2.641	8.8	20.4	6 10	15 35.79	-23 23.2	0.839	1.819	12.3	19.7
6 20	15 26.77	-19 12.5	1.739	2.639	12.7	20.7	6 20	15 30.75	-22 35.3	0.874	1.812	17.8	19.9
6 30	15 22.15	-18 37.8	1.822	2.637	15.9	20.9	6 30	15 29.63	-21 58.8	0.925	1.807	22.6	20.2
89789	2002 AJ ₁₁₆		5 21.4 308°44	2°2/20.2	18		222575	2001 VV ₁₂₂		5 21.4 171°86	5°9/24.3	18	
4 21	16 13.99	-14 34.3	2.148	3.036	10.6	19.8	4 21	16 23.43	-37 56.6	2.301	3.121	12.4	21.0
5 1	16 8.54	-14 10.3	2.078	3.031	7.5	19.6	5 1	16 15.41	-38 35.2	2.228	3.125	10.0	20.9
5 11	16 1.54	-13 46.1	2.032	3.026	4.2	19.4	5 11	16 5.25	-38 58.1	2.179	3.128	7.6	20.7
5 21	15 53.68	-13 23.9	2.014	3.022	2.3	19.3	5 21	15 53.85	-39 2.8	2.156	3.131	6.0	20.6
5 31	15 45.78	-13 6.2	2.024	3.017	4.7	19.4	5 31	15 42.33	-38 48.8	2.161	3.133	6.4	20.6
6 10	15 38.67	-12 55.4	2.060	3.013	8.1	19.6	6 10	15 31.88	-38 19.2	2.193	3.134	8.3	20.8
6 20	15 33.01	-12 53.1	2.121	3.008	11.2	19.8	6 20	15 23.40	-37 39.2	2.250	3.134	10.8	20.9
6 30	15 29.28	-13 0.1	2.202	3.004	14.0	20.0	6 30	15 17.48	-36 54.6	2.329	3.134	13.2	21.1
384473	2010 CE ₂₆		5 21.4 127°37	1°2/21.9	17		174694	2003 UP ₄₀		5 21.4 193°77	0°6/21.7	17	
4 21	16 17.30												

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5 21.4

5 21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
25490	Kevinkelly		5 21.4 161°74	0°1/21.5	18		261071	2005 SZ₂₀₆		5 21.4 56°94	0°8/21.7	17	
4 21	16 19.46	-22 2.2	1.882	2.761	12.3	19.1	4 21	16 18.37	-23 6.4	1.477	2.367	14.3	20.3
5 1	16 12.52	-21 40.2	1.817	2.766	8.6	18.9	5 1	16 12.08	-22 55.8	1.426	2.379	10.1	20.1
5 11	16 3.68	-21 11.1	1.776	2.771	4.5	18.7	5 11	16 3.54	-22 36.5	1.397	2.392	5.4	19.9
5 21	15 53.81	-20 36.5	1.763	2.775	0.2	18.3	5 21	15 53.84	-22 10.0	1.393	2.405	0.9	19.6
5 31	15 43.99	-19 59.4	1.778	2.779	4.2	18.6	5 31	15 44.29	-21 39.4	1.416	2.419	4.6	19.9
6 10	15 35.27	-19 23.8	1.820	2.782	8.2	18.9	6 10	15 36.14	-21 9.3	1.463	2.432	9.2	20.2
6 20	15 28.43	-18 53.5	1.886	2.785	11.9	19.1	6 20	15 30.25	-20 44.2	1.534	2.446	13.3	20.4
6 30	15 23.99	-18 31.5	1.974	2.786	15.0	19.3	6 30	15 27.14	-20 27.2	1.624	2.460	16.6	20.7
387003	2012 RL₆		5 21.4 256°69	7°9/24.7	18		415138	2012 DE₅₉		5 21.4 159°87	3°2/19.8	17	
4 21	16 22.70	-41 8.5	2.026	2.841	14.1	20.6	4 21	16 19.22	-12 53.6	1.931	2.814	11.8	21.7
5 1	16 15.41	-42 2.2	1.943	2.830	11.7	20.4	5 1	16 12.23	-12 17.0	1.871	2.821	8.4	21.5
5 11	16 5.49	-42 37.8	1.883	2.819	9.4	20.2	5 11	16 3.50	-11 41.1	1.837	2.828	4.9	21.3
5 21	15 53.88	-42 50.7	1.847	2.808	8.0	20.1	5 21	15 53.85	-11 9.2	1.829	2.834	3.2	21.2
5 31	15 41.92	-42 39.4	1.836	2.796	8.2	20.1	5 31	15 44.27	-10 44.3	1.850	2.839	5.7	21.4
6 10	15 31.07	-42 6.8	1.851	2.785	10.1	20.2	6 10	15 35.71	-10 29.2	1.898	2.843	9.2	21.6
6 20	15 22.48	-41 18.8	1.889	2.773	12.6	20.3	6 20	15 28.91	-10 25.3	1.970	2.847	12.5	21.8
6 30	15 16.91	-40 22.9	1.947	2.761	15.1	20.5	6 30	15 24.33	-10 33.2	2.062	2.849	15.2	22.0
36440	2000 PD₂₇		5 21.4 343°28	3°4/22.9	18		434350	2004 RD₁₄₄		5 21.4 230°69	3°8/23.0	17	
4 21	16 17.56	-29 3.4	1.521	2.400	14.7	18.6	4 21	16 21.67	-31 4.9	2.341	3.187	11.4	21.6
5 1	16 11.77	-29 8.4	1.453	2.396	10.9	18.4	5 1	16 14.20	-31 37.9	2.251	3.174	8.7	21.4
5 11	16 3.51	-28 59.1	1.406	2.393	6.7	18.1	5 11	16 4.69	-32 0.7	2.186	3.160	5.8	21.2
5 21	15 53.80	-28 35.1	1.384	2.390	3.6	17.9	5 21	15 53.91	-32 11.0	2.148	3.145	3.8	21.0
5 31	15 44.01	-27 58.4	1.387	2.387	5.3	18.0	5 31	15 42.84	-32 8.6	2.140	3.130	4.8	21.0
6 10	15 35.51	-27 14.1	1.415	2.385	9.4	18.3	6 10	15 32.56	-31 55.6	2.159	3.114	7.6	21.2
6 20	15 29.32	-26 28.5	1.466	2.383	13.4	18.5	6 20	15 23.95	-31 35.7	2.204	3.097	10.7	21.3
6 30	15 26.08	-25 47.5	1.536	2.382	17.0	18.7	6 30	15 17.66	-31 13.4	2.272	3.080	13.4	21.5
302452	2002 EU₉₅		5 21.4 161°59	5°0/24.9	17		105904	2000 SB₁₉₇		5 21.4 190°35	1°7/19.5	18	
4 21	16 18.91	-39 36.5	3.063	3.868	10.0	21.8	4 21	16 7.22	-12 8.7	4.467	5.345	5.7	19.9
5 1	16 11.83	-39 59.2	2.989	3.874	8.1	21.7	5 1	16 3.26	-11 44.6	4.397	5.344	4.1	19.8
5 11	16 3.23	-40 8.6	2.940	3.880	6.3	21.6	5 11	15 58.63	-11 21.4	4.355	5.344	2.4	19.7
5 21	15 53.79	-40 3.4	2.918	3.885	5.1	21.5	5 21	15 53.66	-11 0.2	4.342	5.344	1.7	19.6
5 31	15 44.34	-39 43.9	2.924	3.890	5.2	21.5	5 31	15 48.70	-10 42.4	4.359	5.343	2.9	19.7
6 10	15 35.67	-39 12.5	2.958	3.894	6.6	21.6	6 10	15 44.08	-10 28.9	4.404	5.343	4.6	19.9
6 20	15 28.45	-38 32.8	3.018	3.897	8.5	21.7	6 20	15 40.10	-10 20.6	4.476	5.343	6.2	20.0
6 30	15 23.14	-37 49.1	3.101	3.901	10.4	21.9	6 30	15 37.00	-10 17.9	4.571	5.342	7.7	20.1
476510	2008 GY₅₀		5 21.4 158°24	3°6/18.9	17		388832	2008 DL₉		5 21.4 276°43	4°6/18.7	17	
4 21	16 13.01	-9 58.9	2.537	3.418	9.4	21.9	4 21	16 13.56	-7 54.6	2.199	3.083	10.5	20.9
5 1	16 7.60	-9 10.5	2.475	3.421	6.8	21.7	5 1	16 8.16	-7 9.3	2.137	3.083	7.8	20.7
5 11	16 0.97	-8 24.4	2.439	3.424	4.4	21.6	5 11	16 1.35	-6 28.4	2.101	3.083	5.4	20.6
5 21	15 53.71	-7 43.7	2.432	3.427	3.7	21.5	5 21	15 53.77	-5 55.4	2.091	3.082	4.6	20.5
5 31	15 46.48	-7 11.2	2.452	3.429	5.4	21.7	5 31	15 46.21	-5 33.2	2.109	3.082	6.4	20.7
6 10	15 39.94	-6 49.2	2.500	3.432	7.9	21.8	6 10	15 39.42	-5 24.0	2.153	3.082	9.1	20.8
6 20	15 34.63	-6 38.5	2.572	3.434	10.4	22.0	6 20	15 34.02	-5 28.2	2.220	3.082	11.8	21.0
6 30	15 30.92	-6 39.5	2.666	3.435	12.6	22.2	6 30	15 30.44	-5 45.3	2.308	3.082	14.2	21.2
418055	2007 VP₁₅₂		5 21.4 192°86	0°9/21.8	14	C	472987	2015 HU₁₄		5 21.4 349°18	5°0/23.2	17	
4 21	16 20.60	-23 57.3	1.875	2.750	12.5	22.5	4 21	16 18.07	-31 22.7	1.593	2.463	14.6	20.4
5 1	16 13.44	-23 44.3	1.802	2.748	8.9	22.3	5 1	16 12.21	-32 3.0	1.523	2.458	11.2	20.2
5 11	16 4.22	-23 22.5	1.754	2.746	4.9	22.0	5 11	16 3.82	-32 29.6	1.476	2.454	7.6	19.9
5 21	15 53.84	-22 52.8	1.732	2.743	1.0	21.7	5 21	15 53.87	-32 39.6	1.453	2.451	5.1	19.8
5 31	15 43.41	-22 17.6	1.738	2.740	4.2	22.0	5 31	15 43.73	-32 32.9	1.455	2.448	6.2	19.8
6 10	15 34.06	-21 41.2	1.772	2.735	8.3	22.2	6 10	15 34.79	-32 13.1	1.481	2.445	9.6	20.0
6 20	15 26.65	-21 7.8	1.830	2.730	12.1	22.4	6 20	15 28.16	-31 45.5	1.531	2.444	13.2	20.2
6 30	15 21.76	-20 41.2	1.910	2.725	15.3	22.6	6 30	15 24.53	-31 16.4	1.600	2.443	16.5	20.4
73760	1994 CT₁₇		5 21.4 14°41	0°4/21.6	18		361078	2006 BX₄₅		5 21.4 53°52	6°3/24.0	17	
4 21	16 16.07	-21 50.8	1.949	2.832	11.7	19.1	4 21	16 21.63	-34 10.3	1.267	2.137	17.6	20.0
5 1	16 10.18	-21 47.8	1.882	2.833	8.3	18.9	5 1	16 15.01	-34 30.9	1.211	2.144	13.6	19.8
5 11	16 2.48	-21 39.2	1.839	2.834	4.4	18.7	5 11	16 5.33	-34 29.6	1.176	2.151	9.4	19.5
5 21	15 53.77	-21 25.7	1.823	2.835	0.5	18.4	5 21	15 53.93	-34 4.0	1.163	2.159	6.5	19.4
5 31	15 45.03	-21 9.3	1.834	2.836	3.9	18.6	5 31	15 42.61	-33 16.1	1.174	2.167	7.3	19.5
6 10	15 37.25	-20 52.9	1.872	2.837	7.8	18.9	6 10	15 33.12	-32 13.3	1.208	2.175	10.9	19.7
6 20	15 31.18	-20 39.5	1.934	2.838	11.4	19.1	6 20	15 26.62	-31 5.2	1.264	2.183	15.0	19.9
6 30	15 27.35	-20 31.6	2.017	2.840	14.3	19.3	6 30	15 23.71	-30 0.5	1.338	2.192	18.6	20.2
382907	2004 RZ₁₃₉		5 21.4 233°10	4°7/18.3	18		70511	1999 TL₁₀₃		5 21.4 145°15	0°2/21.5	18	
4 21	16 16.23	-6 51.6	2.408	3.283	10.1	22.2	4 21	16 20.03	-22 34.5	1.899	2.776	12.3	19.6
5 1	16 10.01	-5 59.8	2.328	3.267	7.6	22.1	5 1	16 12.86	-22 5.9	1.838	2.786	8.6	19.4
5 11	16 2.32	-5 11.7	2.273	3.250	5.4	21.9	5 11	16 3.84	-21 29.5	1.802	2.796	4.5	19.2
5 21	15 53.77	-4 30.9	2.247	3.233	4.8	21.8	5 21	15 53.87	-20 47.3	1.794	2.806	0.3	18.9
5 31	15 45.12	-4 0.9	2.249	3.215	6.6	21.9	5 31	15 44.02	-20 2.7	1.813	2.814	4.1	19.2
6 10	15 37.13	-3 43.9	2.278	3.196	9.2	22.0	6 10	15 35.32	-19 19.9	1.861	2.822	8.1	19.5
6 20	15 30.45	-3 41.0	2.331	3.177	11.9	22.2	6 20	15 28.52	-18 43.0	1.933	2.830	11.7	19.7
6 30	15 25.55	-3 51.9	2.405	3.156	14.3	22.3	6 30	15 24.09	-18 14.9	2.026	2.836	14.7	19.9
235203	2003 SE₁₆₄		5 21.4 180°27	1°0/20.8	18		200097	1994 UO₆		5 21.4 279°46	0°6/21.7		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
422781	2001 <i>VU</i> ₈₂		5 21.4 103°59	0°6/21.6	18		325153	2008 <i>FS</i> ₃		5 21.4 138°34	3°9/19.5	17	
4 21	16 22.41	-20 53.3	1.909	2.784	12.3	21.3	4 21	16 18.30	-11 43.1	1.772	2.660	12.5	21.3
5 1	16 14.51	-21 17.8	1.858	2.805	8.6	21.1	5 1	16 11.69	-10 56.6	1.718	2.669	8.9	21.1
5 11	16 4.70	-21 37.7	1.832	2.825	4.6	20.9	5 11	16 3.27	-10 12.0	1.687	2.677	5.4	20.9
5 21	15 53.92	-21 52.5	1.833	2.845	0.6	20.6	5 21	15 53.92	-9 33.2	1.684	2.685	4.0	20.8
5 31	15 43.25	-22 3.0	1.863	2.864	4.0	20.9	5 31	15 44.66	-9 4.1	1.707	2.692	6.4	21.0
6 10	15 33.75	-22 11.0	1.921	2.883	7.9	21.2	6 10	15 36.51	-8 47.5	1.756	2.699	9.9	21.2
6 20	15 26.21	-22 19.0	2.004	2.902	11.4	21.4	6 20	15 30.20	-8 44.5	1.829	2.706	13.2	21.4
6 30	15 21.12	-22 29.4	2.109	2.919	14.2	21.7	6 30	15 26.20	-8 55.2	1.921	2.712	16.1	21.7
155722	2000 <i>QS</i> ₂₂₂		5 21.4 275°22	7°9/23.9	18		468321	2016 <i>CD</i> ₈₃		5 21.4 73°40	0°8/21.2	18	
4 21	16 23.59	-38 37.4	1.806	2.637	14.9	19.8	4 21	16 22.00	-18 23.8	1.321	2.215	15.4	21.2
5 1	16 16.36	-39 44.7	1.721	2.622	12.2	19.6	5 1	16 14.71	-18 28.2	1.278	2.235	10.7	21.0
5 11	16 6.17	-40 35.2	1.658	2.606	9.6	19.4	5 11	16 4.97	-18 29.3	1.257	2.254	5.6	20.7
5 21	15 53.99	-41 3.3	1.619	2.590	8.0	19.3	5 21	15 53.99	-18 28.0	1.261	2.273	0.8	20.4
5 31	15 41.26	-41 6.4	1.606	2.574	8.5	19.3	5 31	15 43.24	-18 26.5	1.291	2.292	5.3	20.8
6 10	15 29.62	-40 46.9	1.618	2.558	10.8	19.4	6 10	15 34.12	-18 27.8	1.345	2.311	10.1	21.1
6 20	15 20.41	-40 10.6	1.652	2.542	13.7	19.5	6 20	15 27.53	-18 34.5	1.421	2.330	14.4	21.4
6 30	15 14.53	-39 25.8	1.707	2.526	16.7	19.7	6 30	15 23.99	-18 48.4	1.517	2.349	17.8	21.7
165038	2000 <i>DM</i> ₈₉		5 21.4 204°77	1°3/20.7	17		53230	1999 <i>CP</i> ₁₀₃		5 21.4 99°31	0°2/21.3	18	
4 21	16 16.06	-17 40.8	2.135	3.018	10.8	21.0	4 21	16 18.33	-22 33.1	1.706	2.590	13.0	19.0
5 1	16 10.04	-17 18.7	2.064	3.016	7.6	20.8	5 1	16 11.77	-21 43.2	1.652	2.604	9.1	18.8
5 11	16 2.39	-16 53.9	2.018	3.013	4.0	20.6	5 11	16 3.31	-20 44.5	1.621	2.617	4.8	18.5
5 21	15 53.84	-16 28.1	2.000	3.011	1.3	20.4	5 21	15 53.92	-19 40.5	1.618	2.630	0.3	18.2
5 31	15 45.26	-16 4.0	2.010	3.008	4.2	20.6	5 31	15 44.73	-18 35.9	1.642	2.642	4.4	18.6
6 10	15 37.53	-15 44.3	2.047	3.005	7.8	20.8	6 10	15 36.79	-17 36.3	1.692	2.655	8.7	18.9
6 20	15 31.33	-15 31.3	2.109	3.001	11.1	21.0	6 20	15 30.86	-16 46.2	1.766	2.667	12.4	19.1
6 30	15 27.16	-15 26.7	2.193	2.997	13.9	21.2	6 30	15 27.39	-16 8.6	1.861	2.679	15.5	19.3
437910	2002 <i>AU</i> ₃₁		5 21.4 104°90	15°2/14.5	17		485980	2012 <i>JV</i> ₃₆		5 21.4 196°07	1°0/21.5	18	
4 21	16 20.91	+28 35.1	2.172	2.885	16.3	21.1	4 21	16 33.10	-17 20.4	1.184	2.068	17.6	21.1
5 1	16 13.10	+29 34.0	2.162	2.907	15.6	21.0	5 1	16 23.55	-18 56.0	1.116	2.067	12.6	20.8
5 11	16 3.80	+30 1.8	2.170	2.929	15.2	21.1	5 11	16 10.18	-20 36.4	1.071	2.066	6.8	20.4
5 21	15 53.90	+29 54.9	2.196	2.950	15.3	21.1	5 21	15 54.23	-22 14.9	1.052	2.064	1.1	20.0
5 31	15 44.36	+29 13.0	2.241	2.970	15.7	21.2	5 31	15 37.67	-23 45.4	1.060	2.061	6.2	20.4
6 10	15 36.04	+27 59.2	2.303	2.990	16.4	21.3	6 10	15 22.72	-25 4.9	1.094	2.058	12.2	20.7
6 20	15 29.53	+26 19.1	2.382	3.010	17.2	21.4	6 20	15 11.04	-26 14.3	1.151	2.054	17.4	21.0
6 30	15 25.19	+24 18.9	2.475	3.029	17.9	21.5	6 30	15 3.61	-27 17.5	1.226	2.050	21.6	21.3
83151	2001 <i>QD</i> ₂₆₈		5 21.4 171°76	3°7/19.0	18		240286	2003 <i>EN</i> ₁₉		5 21.4 353°84	6°5/24.9	18	
4 21	16 14.27	-10 48.2	2.283	3.167	10.2	19.7	4 21	16 18.62	-39 12.6	2.090	2.917	13.3	19.7
5 1	16 8.62	-9 58.2	2.220	3.168	7.4	19.5	5 1	16 12.25	-39 40.7	2.017	2.916	10.8	19.5
5 11	16 1.59	-9 10.0	2.182	3.169	4.7	19.3	5 11	16 3.72	-39 51.2	1.967	2.916	8.3	19.4
5 21	15 53.82	-8 27.0	2.173	3.170	3.7	19.2	5 21	15 53.94	-39 41.8	1.941	2.915	6.7	19.3
5 31	15 46.08	-7 52.5	2.191	3.171	5.6	19.4	5 31	15 44.09	-39 12.7	1.942	2.915	6.9	19.3
6 10	15 39.12	-7 29.0	2.236	3.172	8.5	19.5	6 10	15 35.34	-38 27.6	1.968	2.914	8.8	19.4
6 20	15 33.53	-7 17.7	2.306	3.172	11.3	19.7	6 20	15 28.60	-37 32.3	2.018	2.914	11.3	19.5
6 30	15 29.74	-7 19.0	2.396	3.172	13.7	19.9	6 30	15 24.47	-36 33.2	2.089	2.914	13.8	19.7
279361	2010 <i>AF</i> ₅₉		5 21.4 187°27	3°4/19.5	17		376184	2011 <i>CX</i> ₄₁		5 21.4 171°27	1°3/22.1	17	
4 21	16 16.58	-11 16.0	2.173	3.055	10.7	21.3	4 21	16 19.26	-25 25.0	2.066	2.936	11.7	22.2
5 1	16 10.32	-10 40.3	2.107	3.055	7.7	21.1	5 1	16 12.36	-25 10.2	1.996	2.939	8.4	22.0
5 11	16 2.51	-10 6.4	2.066	3.054	4.7	20.9	5 11	16 3.64	-24 46.2	1.952	2.942	4.7	21.8
5 21	15 53.86	-9 37.4	2.052	3.053	3.5	20.8	5 21	15 53.94	-24 13.9	1.934	2.945	1.4	21.6
5 31	15 45.21	-9 16.0	2.067	3.051	5.6	20.9	5 31	15 44.26	-23 35.6	1.945	2.946	3.8	21.7
6 10	15 37.39	-9 4.5	2.109	3.049	8.7	21.1	6 10	15 35.60	-22 55.4	1.984	2.947	7.6	22.0
6 20	15 31.06	-9 4.1	2.175	3.046	11.7	21.3	6 20	15 28.70	-22 17.3	2.048	2.948	11.0	22.2
6 30	15 26.68	-9 15.0	2.262	3.043	14.2	21.5	6 30	15 24.09	-21 45.0	2.134	2.948	13.9	22.4
229722	2007 <i>GE</i>		5 21.4 6°85	3°6/19.6	17		365094	2009 <i>BF</i> ₁₃₁		5 21.4 61°95	2°0/20.8	17	
4 21	16 15.66	-13 34.1	1.593	2.490	13.1	20.1	4 21	16 19.80	-16 26.9	1.294	2.193	15.3	20.7
5 1	16 10.07	-12 43.4	1.534	2.490	9.3	19.8	5 1	16 13.28	-16 15.4	1.245	2.204	10.7	20.5
5 11	16 2.51	-11 52.7	1.497	2.490	5.5	19.6	5 11	16 4.29	-16 2.5	1.218	2.214	5.7	20.2
5 21	15 53.87	-11 6.2	1.486	2.491	3.7	19.5	5 21	15 53.97	-15 50.4	1.215	2.225	2.0	20.0
5 31	15 45.25	-10 28.6	1.501	2.492	6.5	19.7	5 31	15 43.79	-15 42.1	1.237	2.236	5.9	20.3
6 10	15 37.74	-10 3.7	1.541	2.493	10.4	19.9	6 10	15 35.11	-15 40.8	1.283	2.247	10.7	20.6
6 20	15 32.16	-9 53.5	1.604	2.494	14.1	20.1	6 20	15 28.90	-15 48.6	1.351	2.259	15.0	20.9
6 30	15 29.03	-9 58.3	1.685	2.495	17.2	20.3	6 30	15 25.70	-16 6.5	1.437	2.270	18.6	21.1
500547	2012 <i>UT</i> ₃₂		5 21.4 114°38	1°2/22.3	17		305399	2008 <i>CG</i> ₇₇		5 21.4 209°94	3°9/19.1	16	
4 21	16 16.54	-26 3.0	2.576	3.440	9.9	21.9	4 21	16 14.59	-8 2.7	2.483	3.361	9.7	21.2
5 1	16 10.07	-25 41.1	2.519	3.459	7.1	21.7	5 1	16 8.81	-7 35.6	2.414	3.357	7.1	21.1
5 11	16 2.28	-25 11.3	2.488	3.477	4.0	21.5	5 11	16 1.71	-7 12.7	2.371	3.353	4.8	20.9
5 21	15 53.86	-24 34.9	2.485	3.495	1.3	21.4	5 21	15 53.87	-6 56.5	2.356	3.349	4.0	20.8
5 31	15 45.58	-23 54.1	2.512	3.513	3.1	21.5	5 31	15 46.01	-6 49.1	2.368	3.344	5.6	20.9
6 10	15 38.17	-23 12.2	2.567	3.530	6.2	21.8	6 10	15 38.82	-6 51.9	2.408	3.339	8.2	21.1
6 20	15 32.19	-22 32.3	2.649	3.546	8.9	22.0	6 20	15 32.89	-7 5.3	2.472	3.334	10.8	21.3
6 30	15 28.00	-21 57.4	2.754	3.562	11.3	22.2	6 30	15 28.63	-7 29.1	2.558	3.329	13.1	21.4
468383	2016 <i>GA</i> ₁₃		5										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
102663	1999 VA ₅₉		5 21.4 153°56	0°5/21.7	18		106726	2000 WQ ₁₈₀		5 21.4 190°69	0°3/21.6	18	
4 21	16 17.75	-22 19.7	2.109	2.986	11.2	20.5	4 21	16 14.52	-23 5.9	2.465	3.339	9.9	19.7
5 1	16 11.26	-22 14.0	2.043	2.990	7.9	20.3	5 1	16 8.83	-22 36.3	2.391	3.339	7.0	19.5
5 11	16 3.06	-22 2.3	2.001	2.995	4.2	20.1	5 11	16 1.75	-22 0.0	2.344	3.338	3.7	19.3
5 21	15 53.93	-21 45.4	1.987	2.999	0.6	19.8	5 21	15 53.92	-21 18.8	2.325	3.337	0.4	19.0
5 31	15 44.81	-21 25.3	2.001	3.002	3.7	20.0	5 31	15 46.10	-20 35.2	2.335	3.336	3.3	19.3
6 10	15 36.62	-21 4.9	2.043	3.006	7.4	20.3	6 10	15 39.05	-19 52.5	2.372	3.335	6.6	19.5
6 20	15 30.09	-20 47.2	2.109	3.009	10.8	20.5	6 20	15 33.37	-19 13.9	2.436	3.333	9.6	19.7
6 30	15 25.70	-20 34.7	2.198	3.012	13.6	20.7	6 30	15 29.48	-18 42.1	2.522	3.332	12.2	19.9
501284	2013 WV ₄₆		5 21.4 198°21	2°1/19.9	18		154444	2003 BF ₈₃		5 21.4 45°76	1°0/21.8	17	
4 21	16 16.76	-16 22.8	2.316	3.196	10.2	22.0	4 21	16 19.21	-22 15.7	1.388	2.281	14.9	19.5
5 1	16 10.40	-15 26.7	2.242	3.192	7.2	21.8	5 1	16 12.84	-22 27.7	1.339	2.294	10.5	19.3
5 11	16 2.56	-14 27.2	2.195	3.188	4.0	21.6	5 11	16 4.07	-22 32.5	1.312	2.308	5.7	19.1
5 21	15 53.92	-13 27.8	2.176	3.183	2.1	21.5	5 21	15 54.02	-22 30.2	1.310	2.322	1.0	18.8
5 31	15 45.28	-12 32.1	2.187	3.178	4.6	21.6	5 31	15 44.09	-22 22.8	1.334	2.337	4.8	19.1
6 10	15 37.46	-11 44.0	2.225	3.172	7.9	21.8	6 10	15 35.63	-22 14.0	1.382	2.352	9.5	19.4
6 20	15 31.07	-11 6.1	2.289	3.165	11.0	22.0	6 20	15 29.57	-22 7.5	1.452	2.367	13.7	19.7
6 30	15 26.58	-10 40.2	2.375	3.158	13.6	22.2	6 30	15 26.44	-22 6.4	1.542	2.383	17.1	19.9
44267	1998 QZ ₅₅		5 21.4 241°08	1°2/22.1	18		248956	2006 XF ₂₉		5 21.4 312°50	1°1/20.8	18	
4 21	16 17.11	-24 47.1	2.136	3.009	11.3	18.8	4 21	16 14.32	-18 34.1	2.127	3.013	10.8	21.0
5 1	16 10.93	-24 35.9	2.055	3.000	8.1	18.6	5 1	16 8.88	-18 7.5	2.056	3.009	7.5	20.8
5 11	16 2.95	-24 16.4	1.998	2.990	4.5	18.4	5 11	16 1.84	-17 37.2	2.010	3.005	3.9	20.6
5 21	15 53.93	-23 49.2	1.969	2.979	1.2	18.1	5 21	15 53.93	-17 5.4	1.991	3.002	1.1	20.3
5 31	15 44.81	-23 16.6	1.967	2.969	3.8	18.3	5 31	15 45.99	-16 34.8	2.000	2.999	4.1	20.6
6 10	15 36.54	-22 41.8	1.993	2.958	7.5	18.5	6 10	15 38.88	-16 8.5	2.036	2.995	7.7	20.8
6 20	15 29.90	-22 8.7	2.045	2.947	10.9	18.7	6 20	15 33.26	-15 49.0	2.096	2.992	11.0	21.0
6 30	15 25.43	-21 40.9	2.118	2.935	13.9	18.9	6 30	15 29.63	-15 38.3	2.178	2.989	13.8	21.2
271637	2004 PV ₈₁		5 21.4 275°09	1°7/20.6	17		500261	2012 KN ₄₉		5 21.4 286°90	4°4/19.5	18	
4 21	16 17.51	-16 50.1	1.821	2.709	12.2	21.2	4 21	16 17.82	-10 18.6	1.709	2.597	12.8	20.8
5 1	16 11.47	-16 28.3	1.735	2.688	8.6	20.9	5 1	16 11.83	-9 48.3	1.619	2.570	9.4	20.5
5 11	16 3.37	-16 3.6	1.672	2.667	4.7	20.6	5 11	16 3.65	-9 20.8	1.554	2.543	5.9	20.3
5 21	15 53.96	-15 38.3	1.636	2.646	1.7	20.4	5 21	15 54.02	-8 59.9	1.514	2.515	4.5	20.1
5 31	15 44.29	-15 15.2	1.627	2.625	5.1	20.6	5 31	15 44.03	-8 49.2	1.501	2.487	7.0	20.2
6 10	15 35.47	-14 57.7	1.645	2.603	9.3	20.8	6 10	15 34.84	-8 51.6	1.513	2.458	11.0	20.3
6 20	15 28.41	-14 48.6	1.686	2.581	13.2	21.0	6 20	15 27.44	-9 8.4	1.547	2.430	14.9	20.5
6 30	15 23.76	-14 49.9	1.747	2.559	16.6	21.1	6 30	15 22.55	-9 39.7	1.600	2.401	18.4	20.7
9117	Aude		5 21.4 84°71	3°8/20.3	18		146606	2001 TJ ₁₉₆		5 21.4 112°00	4°2/19.9	17	
4 21	16 21.20	-11 0.8	1.506	2.396	14.1	16.7	4 21	16 19.56	-9 2.3	1.770	2.653	12.7	19.6
5 1	16 13.89	-10 54.5	1.462	2.414	10.1	16.5	5 1	16 12.61	-8 52.0	1.716	2.664	9.2	19.4
5 11	16 4.47	-10 52.8	1.441	2.432	5.9	16.3	5 11	16 3.80	-8 47.3	1.687	2.674	5.8	19.2
5 21	15 54.01	-10 58.0	1.446	2.450	3.8	16.2	5 21	15 54.03	-8 50.7	1.684	2.684	4.3	19.2
5 31	15 43.74	-11 11.7	1.477	2.468	6.4	16.4	5 31	15 44.33	-9 3.9	1.709	2.694	6.4	19.3
6 10	15 34.85	-11 35.0	1.534	2.486	10.4	16.7	6 10	15 35.73	-9 27.7	1.759	2.703	9.8	19.5
6 20	15 28.16	-12 7.7	1.613	2.503	14.0	16.9	6 20	15 28.99	-10 1.9	1.833	2.712	13.1	19.7
6 30	15 24.15	-12 49.2	1.712	2.520	17.1	17.2	6 30	15 24.62	-10 45.4	1.928	2.721	15.9	20.0
334315	2001 VF ₁₃₄		5 21.4 243°94	1°4/20.1	18		126652	2002 CM ₁₉₉		5 21.4 349°16	0°9/21.8	17	
4 21	16 8.24	-13 3.3	4.448	5.324	5.8	20.9	4 21	16 17.40	-23 18.5	1.652	2.538	13.3	20.1
5 1	16 4.01	-12 53.6	4.373	5.320	4.1	20.8	5 1	16 11.45	-23 12.3	1.585	2.537	9.5	19.8
5 11	15 59.09	-12 44.6	4.325	5.316	2.3	20.7	5 11	16 3.35	-22 58.0	1.541	2.535	5.1	19.6
5 21	15 53.80	-12 37.2	4.307	5.312	1.4	20.6	5 21	15 54.01	-22 36.4	1.523	2.534	1.0	19.3
5 31	15 48.48	-12 32.4	4.318	5.308	2.7	20.7	5 31	15 44.62	-22 9.9	1.531	2.534	4.4	19.5
6 10	15 43.51	-12 31.1	4.359	5.303	4.4	20.8	6 10	15 36.37	-21 42.7	1.565	2.533	8.8	19.8
6 20	15 39.18	-12 33.8	4.426	5.299	6.2	20.9	6 20	15 30.15	-21 18.8	1.622	2.532	12.8	20.0
6 30	15 35.76	-12 41.1	4.517	5.295	7.7	21.0	6 30	15 26.55	-21 1.7	1.699	2.532	16.2	20.2
278750	2008 SM ₁₀₃		5 21.4 246°27	2°3/20.2	18		305459	2008 DU ₁₈		5 21.4 359°48	4°3/19.2	17	
4 21	16 15.76	-15 57.6	1.911	2.800	11.6	20.7	4 21	16 13.33	-10 15.2	1.846	2.739	11.8	20.1
5 1	16 9.99	-15 15.5	1.841	2.795	8.2	20.4	5 1	16 8.28	-9 33.2	1.786	2.738	8.5	19.9
5 11	16 2.45	-14 31.1	1.796	2.790	4.5	20.2	5 11	16 1.56	-8 54.4	1.749	2.737	5.5	19.7
5 21	15 53.93	-13 47.3	1.777	2.785	2.3	20.0	5 21	15 53.93	-8 22.7	1.738	2.737	4.3	19.7
5 31	15 45.39	-13 8.1	1.786	2.780	5.1	20.2	5 31	15 46.31	-8 1.4	1.754	2.737	6.5	19.8
6 10	15 37.76	-12 37.1	1.822	2.775	8.9	20.4	6 10	15 39.59	-7 53.1	1.794	2.737	9.7	20.0
6 20	15 31.80	-12 16.7	1.881	2.770	12.4	20.6	6 20	15 34.48	-7 58.5	1.858	2.738	12.9	20.2
6 30	15 28.02	-12 8.5	1.960	2.764	15.4	20.8	6 30	15 31.47	-8 17.4	1.941	2.740	15.7	20.4
210135	2006 RZ ₁₀₄		5 21.4 323°31	0°6/21.7	17		93890	2000 WV ₁₃₆		5 21.4 108°59	1°8/22.4	18	
4 21	16 15.60	-22 54.9	1.901	2.784	12.0	20.8	4 21	16 19.44	-26 24.3	1.998	2.867	12.1	20.4
5 1	16 9.99	-22 44.1	1.828	2.779	8.5	20.6	5 1	16 12.47	-26 20.3	1.942	2.883	8.7	20.2
5 11	16 2.50	-22 26.1	1.780	2.774	4.6	20.4	5 11	16 3.70	-26 6.6	1.911	2.899	5.0	20.0
5 21	15 53.94	-22 2.1	1.757	2.769	0.7	20.1	5 21	15 54.03	-25 43.9	1.906	2.915	1.9	19.9
5 31	15 45.31	-21 34.4	1.762	2.764	4.0	20.3	5 31	15 44.48	-25 14.2	1.930	2.930	3.9	20.0
6 10	15 37.63	-21 6.5	1.793	2.760	8.0	20.5	6 10	15 36.06	-24 41.3	1.981	2.945	7.5	20.3
6 20	15 31.68	-20 42.0	1.848	2.755	11.7	20.7	6 20	15 29.49	-24 9.2	2.057	2.960	10.8	20.5
6 30	15 28.02	-20 23.9	1.925	2.751	14.8	20.9	6 30	15 25.23	-23 41.7	2.154	2.974	13.7	20.7
268481	2005 XW ₆₅		5 21.4 236°84	1°1/20.8	18		333953	2000 AF ₂₂₁		5 21.4 243°53	1°9/20.5	17	
4 21	16 17.76	-18 58.2	2.116	2.996									

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
160067	2000 <i>BU</i> ₅		5 21.4 234°64	1.7°/22.1	18		289881	2005 <i>MK</i> ₂₅		5 21.5 300°46	5°1/19.5	18	
4 21	16 20.13	-24 42.1	2.341	3.205	10.7	20.4	4 21	16 17.37	-9 22.8	1.464	2.359	14.1	20.1
5 1	16 13.06	-25 7.3	2.253	3.193	7.8	20.1	5 1	16 11.68	-8 54.1	1.389	2.342	10.4	19.8
5 11	16 4.14	-25 26.6	2.191	3.179	4.5	19.9	5 11	16 3.62	-8 30.5	1.337	2.325	6.7	19.6
5 21	15 54.07	-25 39.0	2.157	3.166	1.8	19.7	5 21	15 54.08	-8 16.3	1.309	2.309	5.2	19.4
5 31	15 43.76	-25 44.7	2.152	3.152	3.8	19.8	5 31	15 44.27	-8 15.2	1.306	2.292	7.8	19.5
6 10	15 34.17	-25 45.3	2.176	3.137	7.2	20.0	6 10	15 35.49	-8 29.6	1.327	2.276	11.9	19.7
6 20	15 26.12	-25 43.4	2.226	3.122	10.4	20.2	6 20	15 28.77	-8 59.9	1.370	2.260	16.0	19.9
6 30	15 20.20	-25 42.1	2.298	3.106	13.3	20.3	6 30	15 24.83	-9 45.1	1.430	2.245	19.6	20.1
183181	2002 <i>SH</i> ₅₀		5 21.4 252°53	0°4/21.6	17		262143	2006 <i>SY</i> ₇₀		5 21.5 271°60	0°6/21.7	17	
4 21	16 19.90	-22 13.4	1.865	2.743	12.4	20.9	4 21	16 19.77	-22 17.6	1.649	2.533	13.4	21.1
5 1	16 13.21	-22 4.8	1.776	2.725	8.9	20.6	5 1	16 13.38	-22 12.3	1.561	2.512	9.6	20.8
5 11	16 4.33	-21 49.0	1.712	2.706	4.8	20.3	5 11	16 4.55	-21 59.4	1.496	2.491	5.2	20.5
5 21	15 54.08	-21 26.8	1.674	2.686	0.5	20.0	5 21	15 54.12	-21 39.4	1.457	2.469	0.6	20.1
5 31	15 43.55	-21 0.2	1.664	2.666	4.3	20.2	5 31	15 43.34	-21 14.5	1.445	2.447	4.7	20.3
6 10	15 33.92	-20 32.9	1.682	2.645	8.7	20.4	6 10	15 33.52	-20 48.5	1.459	2.425	9.5	20.6
6 20	15 26.14	-20 8.7	1.723	2.624	12.7	20.6	6 20	15 25.75	-20 25.8	1.496	2.402	13.9	20.8
6 30	15 20.89	-19 51.4	1.785	2.602	16.2	20.8	6 30	15 20.81	-20 10.6	1.552	2.379	17.7	21.0
38520	1999 <i>TZ</i> ₂₅₅		5 21.4 65°70	0°1/21.5	18		370071	2001 <i>QK</i> ₈₂		5 21.5 176°52	12°3/30.2	17	
4 21	16 14.96	-21 24.9	2.206	3.087	10.7	20.0	4 21	16 42.08	-63 2.7	2.688	3.320	15.0	21.3
5 1	16 9.26	-21 11.5	2.142	3.093	7.5	19.8	5 1	16 30.11	-64 20.8	2.619	3.323	14.0	21.2
5 11	16 2.02	-20 53.0	2.104	3.098	3.9	19.6	5 11	16 13.75	-65 12.8	2.568	3.325	13.1	21.1
5 21	15 53.97	-20 30.8	2.092	3.104	0.2	19.3	5 21	15 54.52	-65 31.5	2.537	3.327	12.5	21.1
5 31	15 45.95	-20 6.8	2.109	3.110	3.6	19.6	5 31	15 34.89	-65 13.9	2.526	3.328	12.3	21.1
6 10	15 38.79	-19 44.1	2.153	3.116	7.1	19.9	6 10	15 17.44	-64 22.7	2.536	3.327	12.6	21.1
6 20	15 33.13	-19 25.3	2.222	3.122	10.3	20.1	6 20	15 3.99	-63 5.5	2.568	3.327	13.3	21.1
6 30	15 29.42	-19 12.4	2.313	3.128	13.0	20.3	6 30	14 55.36	-61 31.9	2.618	3.325	14.2	21.2
129130	2004 <i>YP</i> ₂₀		5 21.4 316°95	0°4/21.1	18		368443	2002 <i>XZ</i> ₈₄		5 21.5 81°30	4°4/23.9	17	
4 21	16 8.51	-19 16.0	4.018	4.893	6.4	20.1	4 21	16 21.69	-33 32.7	1.622	2.479	15.0	19.9
5 1	16 4.29	-19 1.9	3.940	4.889	4.4	19.9	5 1	16 14.36	-33 18.7	1.572	2.501	11.3	19.7
5 11	15 59.29	-18 45.8	3.890	4.885	2.3	19.8	5 11	16 4.77	-32 45.9	1.545	2.522	7.5	19.5
5 21	15 53.86	-18 28.5	3.869	4.881	0.4	19.6	5 21	15 54.12	-31 54.7	1.543	2.543	4.6	19.4
5 31	15 48.41	-18 11.4	3.878	4.877	2.3	19.7	5 31	15 43.80	-30 48.9	1.568	2.563	5.5	19.5
6 10	15 43.36	-17 55.7	3.915	4.873	4.4	19.9	6 10	15 35.06	-29 35.5	1.618	2.584	8.8	19.7
6 20	15 39.06	-17 42.7	3.980	4.869	6.4	20.0	6 20	15 28.73	-28 21.9	1.693	2.604	12.3	20.0
6 30	15 35.78	-17 33.4	4.068	4.865	8.1	20.2	6 30	15 25.25	-27 14.6	1.789	2.624	15.4	20.2
62692	2000 <i>TE</i> ₂₄		5 21.4 321°61	0°5/21.9	18		146097	2000 <i>PK</i> ₇		5 21.5 226°53	4°5/18.2	18	
4 21	16 8.63	-24 30.5	4.140	5.006	6.4	19.4	4 21	16 13.82	-5 52.5	2.679	3.552	9.2	20.4
5 1	16 4.35	-24 1.3	4.060	5.003	4.5	19.2	5 1	16 8.26	-5 7.7	2.605	3.542	7.0	20.2
5 11	15 59.31	-23 27.5	4.008	5.000	2.5	19.1	5 11	16 1.48	-4 27.3	2.558	3.532	5.1	20.1
5 21	15 53.87	-22 50.2	3.985	4.997	0.5	18.9	5 21	15 54.00	-3 54.6	2.538	3.521	4.6	20.1
5 31	15 48.44	-22 10.9	3.993	4.994	2.1	19.0	5 31	15 46.47	-3 32.1	2.547	3.510	6.1	20.1
6 10	15 43.43	-21 31.4	4.029	4.991	4.2	19.2	6 10	15 39.54	-3 21.7	2.583	3.499	8.4	20.3
6 20	15 39.18	-20 53.7	4.093	4.988	6.1	19.3	6 20	15 33.75	-3 23.8	2.643	3.487	10.7	20.4
6 30	15 35.97	-20 19.4	4.182	4.985	7.8	19.5	6 30	15 29.51	-3 38.1	2.724	3.474	12.8	20.5
474304	2001 <i>XN</i> ₂₅₃		5 21.4 157°58	0°8/20.9	18		2144	Marietta		5 21.5 184°85	1°4/20.7	18	R
4 21	16 15.01	-18 28.5	2.426	3.306	9.8	21.2	4 21	16 15.91	-17 15.7	2.169	3.052	10.7	16.1
5 1	16 9.18	-18 11.9	2.358	3.308	6.9	21.0	5 1	16 9.96	-16 53.2	2.100	3.052	7.5	15.9
5 11	16 1.96	-17 52.5	2.316	3.311	3.6	20.8	5 11	16 2.43	-16 28.3	2.057	3.052	4.0	15.7
5 21	15 53.98	-17 31.8	2.302	3.314	0.8	20.5	5 21	15 54.04	-16 2.9	2.041	3.051	1.4	15.5
5 31	15 46.01	-17 11.7	2.317	3.316	3.6	20.8	5 31	15 45.64	-15 39.6	2.054	3.051	4.2	15.7
6 10	15 38.79	-16 54.8	2.360	3.318	6.9	21.0	6 10	15 38.07	-15 21.0	2.093	3.050	7.7	15.9
6 20	15 32.93	-16 42.8	2.428	3.320	9.8	21.2	6 20	15 32.01	-15 9.3	2.158	3.049	10.9	16.1
6 30	15 28.85	-16 37.5	2.519	3.322	12.4	21.4	6 30	15 27.93	-15 5.9	2.244	3.048	13.7	16.3
484784	2009 <i>CL</i> ₇		5 21.4 224°02	20°1/11.8	18		433377	2013 <i>SM</i> ₅₅		5 21.5 243°86	2°4/22.1	17	
4 21	16 22.33	+20 44.9	1.224	2.034	21.8	20.6	4 21	16 21.73	-24 42.9	1.786	2.659	13.1	20.6
5 1	16 15.26	+22 35.4	1.188	2.029	20.6	20.5	5 1	16 14.58	-25 27.3	1.713	2.657	9.5	20.4
5 11	16 5.46	+23 46.2	1.169	2.024	20.1	20.5	5 11	16 5.09	-26 5.2	1.665	2.654	5.6	20.2
5 21	15 54.13	+24 6.9	1.166	2.018	20.5	20.5	5 21	15 54.17	-26 34.4	1.643	2.651	2.4	20.0
5 31	15 42.87	+23 32.9	1.179	2.012	21.6	20.5	5 31	15 43.02	-26 54.4	1.649	2.648	4.7	20.1
6 10	15 33.20	+22 7.4	1.208	2.006	23.3	20.6	6 10	15 32.90	-27 6.6	1.681	2.645	8.7	20.3
6 20	15 26.19	+19 58.9	1.251	1.999	25.1	20.7	6 20	15 24.83	-27 14.4	1.738	2.642	12.4	20.6
6 30	15 22.42	+17 18.4	1.305	1.992	26.9	20.9	6 30	15 19.49	-27 21.4	1.816	2.639	15.7	20.8
123278	2000 <i>UG</i> ₉₅		5 21.4 231°20	2°1/22.5	18		503572	2016 <i>GC</i> ₁₄		5 21.5 27°98	1°2/21.1	17	
4 21	16 19.17	-27 15.1	2.203	3.066	11.4	21.0	4 21	16 18.91	-17 51.2	1.368	2.265	14.8	21.1
5 1	16 12.44	-27 15.4	2.116	3.054	8.3	20.8	5 1	16 12.75	-17 49.1	1.310	2.268	10.4	20.8
5 11	16 3.82	-27 6.2	2.055	3.042	4.9	20.6	5 11	16 4.14	-17 44.3	1.275	2.271	5.5	20.6
5 21	15 54.07	-26 47.1	2.021	3.028	2.2	20.4	5 21	15 54.13	-17 38.3	1.263	2.275	1.2	20.3
5 31	15 44.16	-26 19.6	2.015	3.015	4.0	20.5	5 31	15 44.10	-17 33.6	1.278	2.279	5.4	20.6
6 10	15 35.10	-25 46.8	2.038	3.001	7.5	20.7	6 10	15 35.42	-17 33.1	1.316	2.283	10.3	20.8
6 20	15 27.70	-25 12.9	2.085	2.986	10.8	20.9	6 20	15 29.09	-17 39.3	1.377	2.288	14.6	21.1
6 30	15 22.53	-24 41.9	2.155	2.971	13.8	21.0	6 30	15 25.72	-17 54.1	1.456	2.293	18.2	21.4
488625	2002 <i>TJ</i> ₃₀₆		5 21.4 252°91	2°9/20.1	17		420711	2012 <i>LC</i> ₂₃		5 21.5			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
456642	2007 <i>QM</i> ₁₃		5 21.5 134°73	3°1/22.9	16		425034	2009 <i>HJ</i> ₇₈		5 21.5 322°73	2°0/20.8	17	
4 21	16 22.92	-29 2.3	1.720	2.585	13.9	21.7	4 21	16 16.08	-17 14.8	1.195	2.103	15.6	21.0
5 1	16 15.24	-29 3.2	1.661	2.597	10.2	21.5	5 1	16 11.26	-16 55.9	1.123	2.086	11.1	20.6
5 11	16 5.31	-28 50.6	1.625	2.609	6.3	21.3	5 11	16 3.62	-16 33.6	1.071	2.069	6.0	20.3
5 21	15 54.19	-28 24.3	1.615	2.620	3.2	21.1	5 21	15 54.16	-16 10.5	1.042	2.053	2.0	20.0
5 31	15 43.18	-27 46.4	1.632	2.631	4.8	21.3	5 31	15 44.36	-15 50.9	1.037	2.038	6.4	20.2
6 10	15 33.54	-27 2.1	1.676	2.641	8.6	21.5	6 10	15 35.81	-15 39.3	1.054	2.023	11.8	20.5
6 20	15 26.17	-26 17.0	1.744	2.650	12.3	21.8	6 20	15 29.75	-15 39.1	1.091	2.010	16.9	20.7
6 30	15 21.60	-25 36.5	1.834	2.658	15.5	22.0	6 30	15 26.99	-15 52.3	1.145	1.997	21.1	20.9
504599	2008 <i>UP</i> ₁₁₆		5 21.5 243°04	1°7/22.4	17		102038	1999 <i>RU</i> ₁₀₉		5 21.5 208°89	0°9/21.0	17	
4 21	16 17.33	-26 26.9	1.908	2.782	12.4	21.6	4 21	16 18.98	-20 20.2	1.740	2.625	12.8	20.1
5 1	16 11.24	-26 12.1	1.835	2.779	8.9	21.3	5 1	16 12.47	-19 39.9	1.669	2.621	9.0	19.8
5 11	16 3.22	-25 46.7	1.786	2.776	5.1	21.1	5 11	16 3.90	-18 52.5	1.621	2.617	4.7	19.5
5 21	15 54.10	-25 11.5	1.763	2.773	1.8	20.9	5 21	15 54.18	-18 0.8	1.600	2.612	0.9	19.2
5 31	15 44.94	-24 29.2	1.768	2.769	4.1	21.0	5 31	15 44.42	-17 9.0	1.607	2.607	4.7	19.5
6 10	15 36.81	-23 44.0	1.799	2.766	8.0	21.2	6 10	15 35.75	-16 22.0	1.640	2.601	9.1	19.8
6 20	15 30.51	-23 0.7	1.855	2.763	11.6	21.5	6 20	15 29.03	-15 44.0	1.697	2.595	13.0	20.0
6 30	15 26.60	-22 23.4	1.933	2.759	14.7	21.7	6 30	15 24.82	-15 17.8	1.775	2.589	16.3	20.2
115351	2003 <i>SA</i> ₂₃₅		5 21.5 255°67	3°3/19.9	18		154508	2003 <i>FC</i> ₄₉		5 21.5 28°68	8°5/18.1	17	R
4 21	16 18.90	-14 7.1	1.697	2.586	12.9	20.2	4 21	16 16.33	-1 11.9	1.497	2.381	14.5	19.7
5 1	16 12.56	-13 22.1	1.614	2.568	9.2	19.9	5 1	16 10.61	-0 21.0	1.449	2.386	11.5	19.5
5 11	16 4.03	-12 35.2	1.556	2.549	5.3	19.6	5 11	16 2.90	+ 0 16.0	1.424	2.390	9.1	19.4
5 21	15 54.14	-11 50.3	1.524	2.529	3.3	19.5	5 21	15 54.14	+ 0 33.6	1.422	2.396	8.6	19.4
5 31	15 44.02	-11 11.7	1.519	2.510	6.3	19.6	5 31	15 45.45	+ 0 28.5	1.444	2.401	10.3	19.5
6 10	15 34.85	-10 43.8	1.539	2.489	10.5	19.8	6 10	15 37.94	+ 0 0.1	1.489	2.407	13.2	19.6
6 20	15 27.56	-10 29.4	1.583	2.468	14.5	20.0	6 20	15 32.40	-0 49.0	1.555	2.413	16.1	19.8
6 30	15 22.83	-10 29.9	1.645	2.447	17.9	20.2	6 30	15 29.35	-1 55.2	1.638	2.420	18.8	20.1
83181	2001 <i>QP</i> ₂₈₉		5 21.5 210°68	0°3/21.6	18		3792	Preston		5 21.5 103°26	0°9/21.3	18	
4 21	16 16.12	-22 12.4	2.203	3.080	10.8	20.0	4 21	16 29.39	-15 8.1	1.562	2.438	14.5	17.0
5 1	16 10.16	-21 57.6	2.129	3.078	7.6	19.8	5 1	16 19.78	-16 4.1	1.513	2.460	10.2	16.8
5 11	16 2.57	-21 36.8	2.081	3.075	4.1	19.6	5 11	16 7.72	-17 1.4	1.488	2.482	5.4	16.6
5 21	15 54.07	-21 11.1	2.060	3.072	0.4	19.3	5 21	15 54.36	-17 58.0	1.491	2.503	0.9	16.3
5 31	15 45.54	-20 42.8	2.068	3.070	3.6	19.6	5 31	15 41.12	-18 52.2	1.524	2.524	4.9	16.6
6 10	15 37.85	-20 15.0	2.103	3.066	7.2	19.8	6 10	15 29.40	-19 43.8	1.584	2.543	9.5	17.0
6 20	15 31.68	-19 50.7	2.163	3.063	10.5	20.0	6 20	15 20.15	-20 33.5	1.669	2.563	13.4	17.2
6 30	15 27.54	-19 32.5	2.246	3.060	13.3	20.2	6 30	15 13.95	-21 22.9	1.775	2.581	16.6	17.5
27899	Letterman		5 21.5 247°73	0°2/21.6	18		6732	1992 <i>CG</i> ₁		5 21.5 10°31	1°6/20.7	18	
4 21	16 16.36	-21 37.0	2.173	3.052	10.9	19.3	4 21	16 14.60	-16 44.2	1.819	2.712	11.9	17.0
5 1	16 10.39	-21 29.8	2.096	3.045	7.7	19.1	5 1	16 9.28	-16 27.2	1.757	2.713	8.4	16.8
5 11	16 2.73	-21 17.2	2.043	3.037	4.1	18.8	5 11	16 2.18	-16 8.5	1.720	2.715	4.5	16.5
5 21	15 54.08	-21 0.2	2.018	3.030	0.3	18.5	5 21	15 54.11	-15 50.2	1.708	2.718	1.6	16.3
5 31	15 45.34	-20 40.7	2.021	3.022	3.7	18.8	5 31	15 46.03	-15 35.0	1.723	2.721	4.7	16.6
6 10	15 37.42	-20 21.4	2.051	3.014	7.4	19.0	6 10	15 38.91	-15 25.4	1.763	2.725	8.6	16.8
6 20	15 31.03	-20 5.0	2.107	3.007	10.8	19.2	6 20	15 33.51	-15 23.5	1.828	2.729	12.1	17.0
6 30	15 26.70	-19 54.2	2.184	2.999	13.6	19.4	6 30	15 30.32	-15 30.4	1.913	2.733	15.1	17.2
38652	2000 <i>OV</i> ₂₀		5 21.5 186°67	4°6/24.0	18		196572	2003 <i>QS</i> ₃₂		5 21.5 269°19	3°5/19.7	17	
4 21	16 21.75	-35 31.5	2.504	3.332	11.3	20.2	4 21	16 15.97	-12 23.9	1.860	2.749	11.9	20.1
5 1	16 14.16	-35 54.7	2.425	3.332	8.9	20.0	5 1	16 10.25	-11 46.4	1.790	2.742	8.5	19.8
5 11	16 4.71	-36 4.6	2.371	3.331	6.4	19.9	5 11	16 2.71	-11 9.9	1.744	2.735	5.1	19.6
5 21	15 54.18	-35 59.4	2.344	3.329	4.8	19.8	5 21	15 54.14	-10 37.8	1.724	2.728	3.5	19.5
5 31	15 43.55	-35 39.3	2.346	3.327	5.2	19.8	5 31	15 45.50	-10 13.6	1.732	2.720	6.0	19.6
6 10	15 33.84	-35 7.3	2.375	3.324	7.4	19.9	6 10	15 37.76	-10 0.2	1.765	2.713	9.5	19.8
6 20	15 25.82	-34 27.7	2.430	3.320	9.9	20.1	6 20	15 31.70	-9 59.0	1.822	2.705	13.0	20.0
6 30	15 20.05	-33 45.5	2.509	3.316	12.3	20.2	6 30	15 27.84	-10 10.6	1.898	2.698	15.9	20.2
489983	2008 <i>SV</i> ₁₂₀		5 21.5 214°59	1°6/20.5	18		243866	2000 <i>WB</i> ₁₈₄		5 21.5 243°76	2°5/23.1	18	
4 21	16 16.59	-16 52.7	2.324	3.204	10.2	22.4	4 21	16 16.00	-29 45.1	2.453	3.310	10.6	20.3
5 1	16 10.39	-16 18.7	2.246	3.197	7.2	22.2	5 1	16 10.07	-29 33.6	2.369	3.302	7.8	20.1
5 11	16 2.68	-15 41.9	2.194	3.189	3.9	22.0	5 11	16 2.55	-29 11.3	2.311	3.293	4.9	19.9
5 21	15 54.10	-15 4.6	2.171	3.180	1.6	21.8	5 21	15 54.14	-28 38.4	2.280	3.285	2.6	19.8
5 31	15 45.46	-14 29.6	2.176	3.171	4.2	22.0	5 31	15 45.67	-27 56.9	2.278	3.276	3.7	19.8
6 10	15 37.58	-14 0.0	2.209	3.162	7.6	22.2	6 10	15 37.99	-27 10.1	2.303	3.267	6.7	20.0
6 20	15 31.12	-13 38.2	2.268	3.152	10.8	22.3	6 20	15 31.79	-26 22.0	2.354	3.258	9.7	20.2
6 30	15 26.56	-13 25.8	2.348	3.141	13.4	22.5	6 30	15 27.54	-25 36.7	2.429	3.248	12.3	20.3
443358	2014 <i>GX</i> ₃₆		5 21.5 349°37	11°0/13.9	17		24656	1987 <i>QT</i> ₇		5 21.5 254°82	1°7/20.7	18	
4 21	16 9.73	+ 2 29.7	1.505	2.390	14.4	19.8	4 21	16 18.77	-17 38.2	1.752	2.639	12.6	19.2
5 1	16 6.09	+ 4 21.3	1.452	2.378	12.2	19.6	5 1	16 12.46	-17 7.7	1.670	2.623	8.9	18.9
5 11	16 0.58	+ 5 58.0	1.422	2.368	11.0	19.5	5 11	16 4.00	-16 33.0	1.611	2.607	4.8	18.6
5 21	15 54.01	+ 7 11.1	1.414	2.359	11.4	19.5	5 21	15 54.22	-15 56.6	1.579	2.590	1.7	18.4
5 31	15 47.40	+ 7 54.1	1.428	2.351	13.1	19.6	5 31	15 44.23	-15 21.9	1.575	2.572	5.1	18.6
6 10	15 41.76	+ 8 4.6	1.462	2.344	15.6	19.7	6 10	15 35.18	-14 53.0	1.596	2.554	9.5	18.8
6 20	15 37.87	+ 7 44.1	1.514	2.339	18.1	19.9	6 20	15 28.00	-14 33.4	1.641	2.536	13.5	19.0
6 30	15 36.27	+ 6 56.8	1.582	2.336	20.4	20.1	6 30	15 23.34	-14 25.2	1.706	2.517	17.0	19.2
208509	2001 <i>XG</i> ₆₀		5 21.5 189°08	1°7/20.7	16		467851	2010 <i>VT</i> ₁₀₆		5 21.5 1			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
412182	2013 GZ ₉₆		5 21.5 338°57	0°8/21.7 17			202947	1999 GC ₁₁		5 21.5 82°49	0°4/21.3 18		
4 21	16 16.79	-21 8.4	1.057	1.967	17.0	20.3	4 21	16 21.88	-20 39.7	1.348	2.240	15.3	21.0
5 1	16 12.08	-21 26.7	0.992	1.955	12.2	20.0	5 1	16 14.66	-20 19.3	1.305	2.261	10.7	20.8
5 11	16 4.18	-21 38.9	0.946	1.944	6.6	19.6	5 11	16 5.05	-19 52.2	1.285	2.281	5.6	20.6
5 21	15 54.24	-21 44.9	0.922	1.934	0.9	19.2	5 21	15 54.30	-19 20.7	1.289	2.301	0.4	20.3
5 31	15 43.93	-21 46.2	0.920	1.925	5.9	19.5	5 31	15 43.84	-18 48.7	1.319	2.321	5.1	20.7
6 10	15 35.10	-21 46.3	0.941	1.917	11.8	19.8	6 10	15 35.00	-18 21.0	1.374	2.341	9.9	21.0
6 20	15 29.13	-21 49.7	0.980	1.911	17.1	20.1	6 20	15 28.66	-18 1.3	1.452	2.360	14.1	21.3
6 30	15 26.87	-21 59.9	1.036	1.906	21.6	20.3	6 30	15 25.30	-17 52.2	1.548	2.379	17.6	21.6
415966	2001 XY ₂₁₄		5 21.5 18°13 16°2/ 5.3 17				153660	2001 TB ₁₄₆		5 21.5 48°60	7°9/17.2 18		
4 21	16 21.44	-58 55.9	1.169	1.935	25.0	18.7	4 21	16 15.50	-4 42.7	1.477	2.370	14.2	19.1
5 1	16 16.06	-59 5.5	1.122	1.947	22.6	18.6	5 1	16 10.01	-3 10.5	1.434	2.378	10.9	18.9
5 11	16 6.20	-58 25.5	1.089	1.961	20.1	18.4	5 11	16 2.59	-1 48.0	1.414	2.387	8.4	18.8
5 21	15 54.29	-56 49.6	1.071	1.977	17.8	18.4	5 21	15 54.19	-0 42.3	1.418	2.396	8.1	18.8
5 31	15 43.32	-54 20.1	1.071	1.995	16.4	18.3	5 31	15 45.93	+ 0 0.9	1.447	2.406	10.1	19.0
6 10	15 35.60	-51 9.9	1.091	2.015	16.3	18.4	6 10	15 38.90	+ 0 18.9	1.498	2.416	13.1	19.2
6 20	15 32.12	-47 38.0	1.132	2.036	17.6	18.5	6 20	15 33.83	+ 0 12.6	1.570	2.425	16.2	19.4
6 30	15 32.93	-44 3.6	1.193	2.058	19.6	18.7	6 30	15 31.19	- 0 15.1	1.659	2.436	18.8	19.6
384951	2012 TO ₁₃₀		5 21.5 261°51 2°4/22.7 17				372525	2009 SC ₃₄₄		5 21.5 145°87	5°8/17.5 17		
4 21	16 17.84	-28 2.1	2.023	2.890	12.1	21.4	4 21	16 16.62	- 3 25.3	2.409	3.277	10.4	21.8
5 1	16 11.68	-27 56.0	1.938	2.877	8.9	21.1	5 1	16 10.20	- 2 16.9	2.360	3.290	8.0	21.7
5 11	16 3.54	-27 38.7	1.877	2.864	5.3	20.9	5 11	16 2.51	- 1 15.7	2.338	3.302	6.2	21.6
5 21	15 54.21	-27 10.2	1.843	2.850	2.5	20.7	5 21	15 54.19	- 0 25.7	2.343	3.313	5.9	21.6
5 31	15 44.73	-26 32.4	1.836	2.836	4.2	20.8	5 31	15 45.97	+ 0 9.9	2.376	3.324	7.4	21.7
6 10	15 36.15	-25 49.1	1.857	2.823	7.8	21.0	6 10	15 38.57	+ 0 29.2	2.435	3.333	9.5	21.9
6 20	15 29.34	-25 5.1	1.902	2.808	11.4	21.1	6 20	15 32.52	+ 0 32.4	2.518	3.343	11.8	22.0
6 30	15 24.90	-24 25.1	1.969	2.794	14.5	21.3	6 30	15 28.19	+ 0 20.5	2.621	3.351	13.7	22.2
68579	2001 YB ₈₃		5 21.5 31°88 7°5/19.5 18				263132	2007 VS ₉₀		5 21.5 282°09	2°4/20.6 18		
4 21	16 17.40	+ 0 34.2	1.751	2.622	13.4	18.2	4 21	16 20.11	-15 20.5	1.457	2.350	14.3	20.8
5 1	16 11.09	+ 0 37.5	1.708	2.636	10.6	18.0	5 1	16 13.89	-15 7.3	1.371	2.327	10.2	20.5
5 11	16 3.07	+ 0 25.8	1.687	2.650	8.3	17.9	5 11	16 4.99	-14 53.4	1.307	2.303	5.7	20.1
5 21	15 54.19	- 0 3.4	1.692	2.666	7.5	17.9	5 21	15 54.32	-14 40.8	1.269	2.278	2.5	19.9
5 31	15 45.45	- 0 50.7	1.723	2.681	8.8	18.0	5 31	15 43.17	-14 32.7	1.256	2.254	6.2	20.0
6 10	15 37.81	- 1 54.6	1.778	2.698	11.3	18.2	6 10	15 33.00	-14 32.2	1.268	2.229	11.2	20.2
6 20	15 31.94	- 3 11.9	1.857	2.715	13.9	18.4	6 20	15 25.00	-14 42.0	1.302	2.204	15.9	20.5
6 30	15 28.30	- 4 39.2	1.955	2.732	16.3	18.6	6 30	15 20.03	-15 3.5	1.354	2.179	19.9	20.6
271692	2004 RY ₁₀₇		5 21.5 290°88 1°3/22.0 17				224522	2005 WS ₇₄		5 21.5 140°29	7°4/17.5 18		
4 21	16 17.88	-24 17.2	1.681	2.564	13.3	20.7	4 21	16 16.99	- 0 18.0	2.011	2.879	12.1	20.3
5 1	16 12.02	-24 14.6	1.598	2.548	9.6	20.5	5 1	16 10.68	+ 0 38.2	1.962	2.887	9.6	20.2
5 11	16 3.85	-24 2.9	1.538	2.531	5.4	20.2	5 11	16 2.83	+ 1 23.2	1.938	2.895	7.8	20.1
5 21	15 54.23	-23 42.4	1.504	2.515	1.4	19.9	5 21	15 54.20	+ 1 52.5	1.940	2.903	7.5	20.1
5 31	15 44.36	-23 15.2	1.496	2.498	4.5	20.1	5 31	15 45.66	+ 2 3.1	1.968	2.910	9.0	20.2
6 10	15 35.48	-22 45.2	1.514	2.482	9.0	20.3	6 10	15 38.06	+ 1 54.1	2.020	2.917	11.2	20.3
6 20	15 28.61	-22 17.0	1.555	2.466	13.2	20.5	6 20	15 32.03	+ 1 26.7	2.095	2.923	13.6	20.5
6 30	15 24.44	-21 54.8	1.616	2.450	16.8	20.7	6 30	15 28.00	+ 0 43.5	2.188	2.929	15.8	20.7
410729	2009 BQ ₁₈₄		5 21.5 335°04 2°2/22.6 17				70270	1999 RZ ₁₀₂		5 21.5 230°92	3°5/23.2 18		
4 21	16 18.88	-28 0.6	1.303	2.190	16.1	20.1	4 21	16 21.85	-30 54.0	1.951	2.806	12.9	19.6
5 1	16 12.99	-27 22.8	1.238	2.188	11.7	19.9	5 1	16 14.63	-30 50.9	1.863	2.793	9.7	19.3
5 11	16 4.39	-26 27.0	1.194	2.185	6.8	19.6	5 11	16 5.16	-30 33.7	1.799	2.779	6.3	19.1
5 21	15 54.26	-25 15.3	1.173	2.183	2.4	19.3	5 21	15 54.32	-30 1.3	1.762	2.765	3.6	18.9
5 31	15 44.14	-23 53.2	1.178	2.181	5.2	19.5	5 31	15 43.29	-29 15.4	1.753	2.750	4.9	18.9
6 10	15 35.56	-22 29.5	1.207	2.180	10.3	19.8	6 10	15 33.29	-28 20.4	1.771	2.734	8.4	19.1
6 20	15 29.59	-21 12.7	1.258	2.178	15.0	20.0	6 20	15 25.30	-27 22.4	1.814	2.717	12.0	19.3
6 30	15 26.82	-20 9.3	1.328	2.177	18.9	20.3	6 30	15 19.95	-26 27.4	1.878	2.699	15.3	19.5
439202	2012 DC ₅₄		5 21.5 171°97 18°6/11.6 18				306359	2011 SU ₂₀₅		5 21.5 226°35	3°8/18.9 18		
4 21	16 22.31	+16 37.5	1.229	2.058	20.6	21.0	4 21	16 13.89	-10 8.6	2.356	3.239	10.0	20.7
5 1	16 15.15	+18 57.3	1.201	2.062	19.2	20.9	5 1	16 8.47	- 9 18.2	2.287	3.234	7.2	20.5
5 11	16 5.40	+20 40.7	1.191	2.064	18.6	20.9	5 11	16 1.69	- 8 29.8	2.244	3.230	4.7	20.3
5 21	15 54.30	+21 37.2	1.198	2.066	19.1	20.9	5 21	15 54.16	- 7 46.8	2.229	3.225	3.9	20.2
5 31	15 43.37	+21 41.8	1.224	2.067	20.4	21.0	5 31	15 46.60	- 7 12.4	2.242	3.220	5.7	20.3
6 10	15 34.05	+20 56.9	1.265	2.068	22.2	21.2	6 10	15 39.77	- 6 49.2	2.281	3.215	8.5	20.5
6 20	15 27.31	+19 30.4	1.320	2.068	24.1	21.3	6 20	15 34.23	- 6 38.4	2.345	3.209	11.2	20.7
6 30	15 23.71	+17 32.0	1.387	2.066	25.8	21.5	6 30	15 30.43	- 6 40.2	2.429	3.204	13.6	20.8
54638	2000 SC ₁₄₄		5 21.5 334°73 0°6/22.0 18				186670	2003 YP ₇₇		5 21.5 77°45	1°1/21.9 18		
4 21	16 8.75	-23 43.8	4.411	5.276	6.1	19.6	4 21	16 20.92	-23 26.1	1.472	2.358	14.6	20.2
5 1	16 4.47	-23 39.0	4.334	5.276	4.3	19.5	5 1	16 13.98	-23 24.6	1.423	2.374	10.4	20.0
5 11	15 59.45	-23 30.8	4.285	5.276	2.4	19.3	5 11	16 4.73	-23 14.2	1.397	2.391	5.6	19.8
5 21	15 54.03	-23 19.7	4.265	5.276	0.6	19.2	5 21	15 54.30	-22 55.8	1.396	2.407	1.2	19.5
5 31	15 48.59	-23 6.6	4.275	5.276	1.9	19.3	5 31	15 44.04	-22 32.0	1.421	2.424	4.7	19.8
6 10	15 43.53	-22 52.7	4.314	5.276	3.9	19.4	6 10	15 35.26	-22 7.3	1.472	2.440	9.2	20.1
6 20	15 39.17	-22 39.3	4.380	5.276	5.7	19.6	6 20	15 28.83	-21 46.0	1.545	2.457	13.3	20.4
6 30	15 35.79	-22 27.6	4.471	5.275	7.3	19.7	6 30	15 25.27	-21 31.7	1.639	2.473	16.6	20.6
433532	2013 WZ ₈₅		5 21.5 202°45 0°4/21.7 17				216019	2005 UU ₃₈₃		5 21.5 256°66	1°4/20.8 18		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
111904	2002 <i>FO</i> ₃₁		5 21.5 113°52	5°0/19.6 17			382937	2004 <i>TK</i> ₁₇₅		5 21.5 238°47	3°9/23.0 17		
4 21	16 18.43	- 6 55.2	1.838	2.720	12.4	19.5	4 21	16 22.12	-30 39.9	2.203	3.053	11.9	21.5
5 1	16 11.88	- 6 40.3	1.781	2.725	9.2	19.3	5 1	16 14.77	-31 16.7	2.114	3.039	9.0	21.2
5 11	16 3.55	- 6 32.8	1.748	2.730	6.2	19.2	5 11	16 5.27	-31 43.2	2.049	3.025	6.0	21.0
5 21	15 54.25	- 6 35.3	1.741	2.735	5.0	19.1	5 21	15 54.39	-31 57.2	2.012	3.010	3.9	20.9
5 31	15 44.98	- 6 49.7	1.762	2.740	6.9	19.2	5 31	15 43.18	-31 58.2	2.003	2.994	5.0	20.9
6 10	15 36.72	- 7 16.6	1.808	2.745	10.0	19.4	6 10	15 32.78	-31 48.1	2.021	2.978	8.0	21.1
6 20	15 30.19	- 7 55.3	1.877	2.750	13.1	19.6	6 20	15 24.14	-31 30.7	2.066	2.961	11.1	21.2
6 30	15 25.91	- 8 44.6	1.967	2.755	15.9	19.8	6 30	15 17.94	-31 10.9	2.132	2.944	14.0	21.4
58855	1998 <i>HR</i> ₉₂		5 21.5 62°98	2°9/19.9 18			488727	2004 <i>PL</i> ₁₀₇		5 21.5 196°08	3°8/23.8 17		
4 21	16 16.14	-16 4.6	1.653	2.548	12.8	18.8	4 21	16 20.71	-33 30.9	2.580	3.416	10.8	22.6
5 1	16 10.38	-14 59.3	1.600	2.557	9.0	18.6	5 1	16 13.40	-33 40.7	2.498	3.413	8.3	22.4
5 11	16 2.77	-13 51.3	1.571	2.566	5.0	18.3	5 11	16 4.36	-33 38.2	2.440	3.409	5.7	22.3
5 21	15 54.22	-12 45.4	1.569	2.576	2.9	18.2	5 21	15 54.34	-33 22.4	2.411	3.404	3.9	22.1
5 31	15 45.81	-11 46.8	1.593	2.585	5.8	18.4	5 31	15 44.24	-32 54.2	2.410	3.398	4.5	22.2
6 10	15 38.56	-11 0.4	1.642	2.595	9.7	18.7	6 10	15 34.98	-32 16.5	2.437	3.392	6.9	22.3
6 20	15 33.20	-10 28.7	1.714	2.605	13.3	18.9	6 20	15 27.30	-31 33.4	2.491	3.385	9.6	22.5
6 30	15 30.19	-10 12.8	1.806	2.615	16.3	19.1	6 30	15 21.72	-30 49.5	2.568	3.377	12.0	22.6
302300	2001 <i>YK</i> ₈₈		5 21.5 87°17	1°6/20.9 18			227569	2005 <i>YT</i> ₂₀₆		5 21.5 164°94	0°7/21.9 17		
4 21	16 22.48	-17 6.4	1.400	2.291	14.9	21.0	4 21	16 18.59	-23 30.3	2.055	2.929	11.6	21.9
5 1	16 15.00	-16 54.8	1.358	2.313	10.4	20.7	5 1	16 12.00	-23 16.7	1.986	2.933	8.2	21.7
5 11	16 5.23	-16 40.9	1.338	2.334	5.5	20.5	5 11	16 3.64	-22 55.7	1.943	2.936	4.5	21.5
5 21	15 54.34	-16 26.9	1.344	2.355	1.6	20.3	5 21	15 54.31	-22 28.3	1.927	2.939	0.8	21.2
5 31	15 43.72	-16 15.5	1.376	2.375	5.4	20.6	5 31	15 44.99	-21 56.9	1.939	2.941	3.8	21.4
6 10	15 34.65	-16 9.8	1.433	2.396	10.0	20.9	6 10	15 36.65	-21 24.8	1.979	2.943	7.6	21.7
6 20	15 28.00	-16 12.2	1.513	2.415	14.0	21.2	6 20	15 30.02	-20 55.8	2.044	2.945	11.0	21.9
6 30	15 24.24	-16 23.8	1.612	2.435	17.3	21.5	6 30	15 25.61	-20 33.0	2.131	2.946	13.9	22.1
25659	Liboynton		5 21.5 270°51	0°1/21.5 18			11028	1987 <i>UW</i>		5 21.5 252°79	9°1/13.2 18		
4 21	16 18.99	-21 49.4	1.659	2.544	13.3	19.1	4 21	16 16.52	+ 0 50.5	1.994	2.860	12.3	18.5
5 1	16 12.82	-21 29.1	1.573	2.525	9.5	18.8	5 1	16 10.55	+ 3 15.6	1.930	2.846	10.3	18.4
5 11	16 4.31	-21 0.7	1.511	2.506	5.1	18.5	5 11	16 2.90	+ 5 32.5	1.893	2.832	9.2	18.3
5 21	15 54.31	-20 25.6	1.474	2.487	0.3	18.1	5 21	15 54.28	+ 7 32.7	1.882	2.818	9.6	18.3
5 31	15 44.03	-19 46.8	1.465	2.467	4.7	18.4	5 31	15 45.58	+ 9 8.6	1.898	2.803	11.4	18.3
6 10	15 34.75	-19 8.9	1.481	2.447	9.5	18.6	6 10	15 37.70	+10 16.2	1.938	2.788	13.7	18.5
6 20	15 27.48	-18 36.8	1.521	2.426	13.8	18.8	6 20	15 31.35	+10 54.8	1.998	2.772	16.1	18.6
6 30	15 22.94	-18 14.1	1.580	2.406	17.5	19.0	6 30	15 27.05	+11 6.5	2.075	2.756	18.2	18.7
138663	2000 <i>RE</i> ₉₁		5 21.5 143°78	1°1/22.2 18			160294	2003 <i>EB</i> ₃₃		5 21.5 335°55	4°8/22.8 18		
4 21	16 15.55	-25 37.5	2.353	3.223	10.5	19.7	4 21	16 17.23	-28 6.7	1.034	1.935	18.1	18.8
5 1	16 9.69	-25 9.5	2.283	3.226	7.5	19.5	5 1	16 12.71	-28 47.9	0.966	1.921	13.6	18.5
5 11	16 2.34	-24 32.9	2.239	3.230	4.2	19.3	5 11	16 4.71	-29 15.0	0.918	1.908	8.7	18.2
5 21	15 54.21	-23 49.2	2.222	3.233	1.2	19.1	5 21	15 54.38	-29 24.4	0.890	1.896	4.9	18.0
5 31	15 46.13	-23 1.0	2.234	3.236	3.3	19.2	5 31	15 43.56	-29 15.6	0.884	1.885	7.1	18.0
6 10	15 38.90	-22 12.1	2.274	3.239	6.7	19.4	6 10	15 34.31	-28 53.3	0.898	1.875	12.2	18.3
6 20	15 33.14	-21 26.3	2.340	3.242	9.8	19.6	6 20	15 28.18	-28 25.0	0.932	1.867	17.4	18.5
6 30	15 29.29	-20 46.6	2.429	3.244	12.4	19.8	6 30	15 26.11	-27 58.5	0.982	1.860	21.9	18.8
240947	2006 <i>GJ</i> ₄₂		5 21.5 343°50	5°2/20.2 17			236589	2006 <i>HO</i> ₁₂₁		5 21.5 67°63	7°2/17.9 17		
4 21	16 17.92	- 6 58.3	1.492	2.383	14.1	19.8	4 21	16 15.54	- 2 39.7	1.806	2.686	12.6	20.4
5 1	16 12.02	- 7 7.6	1.425	2.375	10.5	19.5	5 1	16 9.82	- 1 41.8	1.759	2.695	9.9	20.2
5 11	16 3.84	- 7 27.2	1.381	2.367	6.9	19.3	5 11	16 2.46	- 0 54.3	1.737	2.704	7.7	20.1
5 21	15 54.29	- 7 59.3	1.362	2.361	5.2	19.2	5 21	15 54.26	- 0 22.0	1.739	2.713	7.3	20.1
5 31	15 44.57	- 8 45.1	1.368	2.355	7.4	19.3	5 31	15 46.16	- 0 8.3	1.768	2.723	8.9	20.2
6 10	15 35.91	- 9 43.8	1.398	2.349	11.2	19.5	6 10	15 39.07	- 0 14.3	1.820	2.732	11.5	20.4
6 20	15 29.30	-10 53.6	1.451	2.345	15.1	19.7	6 20	15 33.66	- 0 38.9	1.894	2.742	14.1	20.6
6 30	15 25.38	-12 12.3	1.524	2.341	18.4	19.9	6 30	15 30.36	- 1 19.8	1.987	2.751	16.5	20.8
249193	2008 <i>CK</i> ₁₉₀		5 21.5 349°89	6°0/25.4 18			255888	2006 <i>SD</i> ₂₇₁		5 21.5 282°18	1°0/21.9 17		
4 21	16 15.91	-38 24.0	1.767	2.611	14.6	19.0	4 21	16 19.45	-22 58.8	1.502	2.390	14.3	20.8
5 1	16 10.60	-38 7.3	1.692	2.605	11.6	18.8	5 1	16 13.31	-22 59.6	1.426	2.378	10.2	20.5
5 11	16 3.05	-37 28.5	1.638	2.599	8.6	18.6	5 11	16 4.64	-22 52.2	1.372	2.367	5.6	20.2
5 21	15 54.25	-36 26.7	1.608	2.595	6.3	18.5	5 21	15 54.38	-22 36.8	1.343	2.355	1.1	19.9
5 31	15 45.48	-35 4.8	1.603	2.591	6.5	18.5	5 31	15 43.86	-22 15.7	1.341	2.343	4.8	20.1
6 10	15 37.99	-33 29.5	1.624	2.588	9.0	18.6	6 10	15 34.50	-21 52.7	1.363	2.332	9.7	20.3
6 20	15 32.66	-31 48.9	1.669	2.585	12.2	18.8	6 20	15 27.38	-21 32.6	1.407	2.320	14.2	20.6
6 30	15 30.05	-30 11.4	1.736	2.583	15.3	19.0	6 30	15 23.23	-21 19.4	1.471	2.309	18.0	20.8
485782	2012 <i>DS</i> ₄		5 21.5 210°80	18°5/25.2 18			480717	2015 <i>TM</i> ₁		5 21.5 319°73	6°4/17.7 16		
4 21	16 42.02	-53 23.5	1.254	2.024	23.4	21.6	4 21	16 13.24	- 2 21.4	2.164	3.040	11.0	20.5
5 1	16 32.67	-56 4.1	1.193	2.020	21.3	21.5	5 1	16 8.14	- 1 32.8	2.100	3.033	8.7	20.3
5 11	16 16.53	-58 12.0	1.149	2.016	19.6	21.3	5 11	16 1.59	- 0 52.8	2.061	3.027	6.8	20.2
5 21	15 54.96	-59 29.5	1.123	2.011	18.6	21.2	5 21	15 54.23	- 0 25.3	2.048	3.020	6.5	20.2
5 31	15 31.55	-59 45.2	1.115	2.005	18.7	21.2	5 31	15 46.84	- 0 13.5	2.062	3.014	8.0	20.2
6 10	15 10.96	-59 2.3	1.126	1.999	19.9	21.3	6 10	15 40.20	- 0 18.7	2.100	3.009	10.3	20.4
6 20	14 56.54	-57 36.4	1.153	1.992	21.8	21.4	6 20	15 34.91	- 0 40.5	2.160	3.003	12.8	20.5
6 30	14 49.58	-55 47.5	1.194	1.984	24.0	21.5	6 30	15 31.44	- 1 17.4	2.240	2.998	15.0	20.7
136530	2006 <i>GS</i> ₃₇		5 21.5 337°86	1°9/22.3 17			472620	2015					

EPHEMERIDES

5 21.5

5 21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
312838	2011 <i>UL</i> ₁₇		5 21.5 120°51	0°9/22.0	17		268976	2007 <i>EG</i> ₄₅		5 21.5 232°90	6°4/24.0	18	
4 21	16 15.92	-23 48.5	2.552	3.422	9.8	21.1	4 21	16 24.06	-37 17.8	2.078	2.905	13.3	20.5
5 1	16 9.88	-23 48.4	2.487	3.431	6.9	21.0	5 1	16 16.42	-38 9.4	1.993	2.895	10.7	20.3
5 11	16 2.45	-23 42.4	2.448	3.439	3.8	20.8	5 11	16 6.28	-38 45.7	1.932	2.884	8.2	20.1
5 21	15 54.28	-23 31.1	2.437	3.447	1.0	20.6	5 21	15 54.51	-39 2.9	1.896	2.872	6.5	20.0
5 31	15 46.12	-23 16.0	2.454	3.456	3.1	20.8	5 31	15 42.36	-38 59.6	1.887	2.860	7.0	20.0
6 10	15 38.73	-22 59.2	2.500	3.464	6.2	21.0	6 10	15 31.21	-38 38.1	1.905	2.848	9.2	20.1
6 20	15 32.70	-22 43.3	2.572	3.471	9.1	21.2	6 20	15 22.15	-38 3.8	1.946	2.835	12.1	20.2
6 30	15 28.45	-22 30.5	2.667	3.479	11.5	21.3	6 30	15 15.94	-37 23.2	2.010	2.822	14.8	20.4
249995	2001 <i>XO</i> ₁₂₈		5 21.5 280°20	1°6/20.1	18		373492	2000 <i>WU</i> ₈₁		5 21.5 156°18	0°5/21.8	17	
4 21	16 9.80	-11 22.7	4.409	5.282	5.9	20.2	4 21	16 19.42	-22 5.4	2.278	3.149	10.7	21.6
5 1	16 5.21	-11 24.5	4.331	5.276	4.2	20.1	5 1	16 12.46	-22 7.1	2.211	3.156	7.6	21.4
5 11	15 59.89	-11 27.8	4.281	5.270	2.5	19.9	5 11	16 3.87	-22 3.6	2.170	3.163	4.1	21.2
5 21	15 54.16	-11 33.5	4.260	5.263	1.7	19.9	5 21	15 54.39	-21 55.2	2.157	3.169	0.6	20.9
5 31	15 48.40	-11 42.3	4.270	5.257	2.8	19.9	5 31	15 44.91	-21 43.4	2.174	3.175	3.5	21.1
6 10	15 42.97	-11 54.6	4.308	5.251	4.5	20.1	6 10	15 36.32	-21 30.6	2.218	3.180	7.0	21.4
6 20	15 38.19	-12 11.0	4.374	5.244	6.3	20.2	6 20	15 29.30	-21 19.5	2.289	3.185	10.2	21.6
6 30	15 34.35	-12 31.5	4.464	5.238	7.8	20.3	6 30	15 24.33	-21 12.4	2.381	3.189	12.9	21.8
250423	2003 <i>WH</i> ₆₂		5 21.5 169°15	0°6/21.2	17		394022	2005 <i>VP</i> ₁₃₁		5 21.5 58°65	4°2/19.1	17	
4 21	16 19.72	-20 57.5	1.824	2.705	12.5	20.8	4 21	16 13.95	-8 29.6	2.276	3.158	10.3	21.7
5 1	16 12.91	-20 20.3	1.758	2.709	8.8	20.6	5 1	16 8.56	-7 52.1	2.214	3.159	7.6	21.6
5 11	16 4.16	-19 36.2	1.717	2.712	4.6	20.3	5 11	16 1.80	-7 18.7	2.177	3.160	5.1	21.4
5 21	15 54.36	-18 47.6	1.702	2.714	0.6	20.0	5 21	15 54.29	-6 52.4	2.167	3.160	4.2	21.4
5 31	15 44.62	-17 58.4	1.716	2.716	4.4	20.3	5 31	15 46.78	-6 35.8	2.184	3.161	5.9	21.5
6 10	15 35.98	-17 13.1	1.757	2.718	8.6	20.6	6 10	15 40.03	-6 30.7	2.228	3.162	8.6	21.6
6 20	15 29.25	-16 35.8	1.822	2.719	12.3	20.8	6 20	15 34.60	-6 37.7	2.296	3.162	11.3	21.8
6 30	15 24.94	-16 9.2	1.907	2.719	15.5	21.0	6 30	15 30.95	-6 56.4	2.385	3.163	13.7	22.0
366268	2013 <i>AA</i> ₃₇		5 21.5 345°91	6°3/18.8	17		163032	2001 <i>XG</i> ₁₁₉		5 21.5 109°47	3°3/22.7	18	
4 21	16 15.54	-1 57.7	2.067	2.940	11.6	19.8	4 21	16 23.25	-27 52.4	1.485	2.360	15.2	20.0
5 1	16 9.79	-1 37.9	2.005	2.937	9.0	19.7	5 1	16 15.87	-28 12.1	1.428	2.370	11.2	19.7
5 11	16 2.47	-1 28.6	1.967	2.935	6.9	19.5	5 11	16 5.90	-28 19.0	1.394	2.381	6.8	19.5
5 21	15 54.29	-1 32.7	1.956	2.933	6.3	19.5	5 21	15 54.50	-28 11.7	1.385	2.391	3.4	19.3
5 31	15 46.08	-1 52.0	1.971	2.931	7.8	19.6	5 31	15 43.14	-27 51.8	1.401	2.401	5.3	19.5
6 10	15 38.69	-2 26.9	2.011	2.929	10.2	19.7	6 10	15 33.28	-27 23.8	1.444	2.411	9.5	19.7
6 20	15 32.77	-3 16.0	2.075	2.928	12.8	19.9	6 20	15 25.95	-26 53.7	1.509	2.420	13.5	20.0
6 30	15 28.81	-4 17.2	2.158	2.927	15.2	20.0	6 30	15 21.73	-26 26.8	1.594	2.429	16.9	20.2
161268	2003 <i>FJ</i> ₆₁		5 21.5 124°20	2°6/20.2	17		303963	2006 <i>AR</i> ₁₀		5 21.5 190°56	1°0/21.2	18	
4 21	16 19.13	-13 47.5	2.062	2.943	11.3	20.9	4 21	16 22.57	-18 4.9	1.630	2.514	13.6	20.7
5 1	16 12.16	-13 17.7	2.011	2.960	7.9	20.7	5 1	16 15.21	-18 1.5	1.562	2.514	9.6	20.5
5 11	16 3.64	-12 48.5	1.985	2.977	4.5	20.6	5 11	16 5.53	-17 55.2	1.517	2.512	5.1	20.2
5 21	15 54.35	-12 22.2	1.987	2.993	2.6	20.5	5 21	15 54.49	-17 46.8	1.499	2.510	1.0	19.9
5 31	15 45.19	-12 1.6	2.018	3.009	5.0	20.6	5 31	15 43.34	-17 38.6	1.508	2.508	4.9	20.2
6 10	15 37.04	-11 48.9	2.076	3.024	8.3	20.9	6 10	15 33.37	-17 33.4	1.543	2.505	9.5	20.5
6 20	15 30.55	-11 45.6	2.158	3.038	11.4	21.1	6 20	15 25.54	-17 34.0	1.602	2.501	13.6	20.7
6 30	15 26.13	-11 52.2	2.262	3.052	14.0	21.3	6 30	15 20.47	-17 42.4	1.681	2.496	17.1	20.9
497350	2005 <i>UO</i> ₁₇₁		5 21.5 200°84	0°1/21.5	17		105416	2000 <i>QY</i> ₁₆₁		5 21.5 301°32	0°5/21.8	18	
4 21	16 18.51	-21 57.9	2.083	2.959	11.4	22.8	4 21	16 15.19	-23 39.2	2.036	2.916	11.4	19.8
5 1	16 11.97	-21 34.1	2.008	2.956	8.0	22.5	5 1	16 9.72	-23 6.9	1.959	2.909	8.1	19.5
5 11	16 3.66	-21 3.5	1.958	2.952	4.3	22.3	5 11	16 2.51	-22 26.1	1.907	2.901	4.4	19.3
5 21	15 54.35	-20 27.6	1.935	2.948	0.2	21.9	5 21	15 54.33	-21 38.5	1.882	2.894	0.6	19.0
5 31	15 45.00	-19 49.4	1.942	2.943	3.9	22.2	5 31	15 46.11	-20 47.6	1.885	2.887	3.8	19.2
6 10	15 36.56	-19 12.4	1.975	2.937	7.7	22.5	6 10	15 38.77	-19 57.6	1.915	2.880	7.7	19.5
6 20	15 29.79	-18 40.2	2.034	2.931	11.2	22.7	6 20	15 33.06	-19 12.6	1.969	2.873	11.2	19.7
6 30	15 25.20	-18 15.7	2.115	2.925	14.2	22.9	6 30	15 29.48	-18 36.0	2.045	2.867	14.2	19.8
304616	2006 <i>VK</i> ₁₀₅		5 21.5 287°58	0°1/21.6	17		290249	2005 <i>SV</i> ₁₀₄		5 21.5 296°99	1°7/22.3	18	
4 21	16 15.02	-22 55.2	2.098	2.978	11.1	20.9	4 21	16 16.95	-24 58.9	2.082	2.956	11.5	20.5
5 1	16 9.56	-22 16.1	2.018	2.968	7.9	20.6	5 1	16 11.14	-25 10.7	1.989	2.934	8.3	20.2
5 11	16 2.40	-21 28.9	1.962	2.957	4.2	20.4	5 11	16 3.39	-25 15.3	1.921	2.912	4.8	19.9
5 21	15 54.29	-20 35.6	1.934	2.946	0.2	20.0	5 21	15 54.38	-25 12.3	1.880	2.890	1.8	19.7
5 31	15 46.11	-19 39.6	1.934	2.935	3.8	20.3	5 31	15 45.09	-25 2.7	1.867	2.868	4.0	19.8
6 10	15 38.79	-18 45.5	1.961	2.924	7.6	20.5	6 10	15 36.54	-24 48.7	1.880	2.846	7.7	20.0
6 20	15 33.02	-17 57.2	2.012	2.914	11.1	20.7	6 20	15 29.59	-24 33.7	1.918	2.824	11.3	20.2
6 30	15 29.32	-17 18.0	2.086	2.903	14.1	20.9	6 30	15 24.90	-24 21.2	1.978	2.803	14.5	20.3
406486	2007 <i>UO</i> ₁₃₁		5 21.5 168°12	3°2/19.9	16		165240	2000 <i>SB</i> ₁₂₀		5 21.5 225°40	3°0/22.5	17	
4 21	16 20.34	-12 20.1	2.011	2.890	11.6	22.1	4 21	16 22.97	-26 36.9	1.567	2.442	14.5	19.8
5 1	16 13.14	-11 48.7	1.948	2.895	8.3	21.9	5 1	16 15.82	-27 8.6	1.495	2.437	10.7	19.6
5 11	16 4.22	-11 18.6	1.911	2.900	4.9	21.7	5 11	16 6.00	-27 30.3	1.445	2.432	6.4	19.3
5 21	15 54.38	-10 52.6	1.901	2.905	3.2	21.6	5 21	15 54.52	-27 40.0	1.420	2.427	3.1	19.1
5 31	15 44.57	-10 33.6	1.920	2.908	5.6	21.8	5 31	15 42.78	-27 37.6	1.422	2.422	5.2	19.2
6 10	15 35.74	-10 23.8	1.966	2.910	9.0	22.0	6 10	15 32.27	-27 26.4	1.450	2.416	9.6	19.5
6 20	15 28.60	-10 24.6	2.037	2.912	12.2	22.2	6 20	15 24.12	-27 11.3	1.500	2.410	13.7	19.7
6 30	15 23.64	-10 36.4	2.128	2.912	14.9	22.4	6 30	15 19.07	-26 57.4	1.571	2.403	17.3	19.9
307130	2002 <i>CL</i> ₁₅₇		5 21.5 125°47	3°0/20.4	17		213818	2003 <i>Q</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
242887	2006 <i>JF</i> ₃₅		5 21.5 173°41'	2°2/20.5	17		232019	2001 <i>SE</i> ₃₀₁		5 21.5 201°95'	1°3/22.2	17	
4 21	16 16.91	-14 42.8	1.998	2.884	11.4	21.1	4 21	16 19.18	-25 21.9	1.941	2.814	12.2	20.8
5 1	16 10.84	-14 24.1	1.933	2.885	8.0	20.9	5 1	16 12.60	-25 3.7	1.867	2.811	8.8	20.6
5 11	16 3.08	-14 5.2	1.892	2.885	4.4	20.7	5 11	16 4.08	-24 35.7	1.817	2.808	4.9	20.4
5 21	15 54.37	-13 48.2	1.878	2.886	2.2	20.5	5 21	15 54.45	-23 58.9	1.793	2.804	1.4	20.1
5 31	15 45.64	-13 35.7	1.891	2.886	4.8	20.7	5 31	15 44.77	-23 15.8	1.798	2.800	4.0	20.3
6 10	15 37.81	-13 29.9	1.932	2.886	8.4	20.9	6 10	15 36.12	-22 30.9	1.830	2.796	8.0	20.5
6 20	15 31.59	-13 32.2	1.997	2.886	11.7	21.1	6 20	15 29.30	-21 48.7	1.887	2.791	11.6	20.7
6 30	15 27.48	-13 43.6	2.082	2.886	14.6	21.3	6 30	15 24.87	-21 13.2	1.965	2.786	14.7	20.9
386498	2009 <i>BK</i> ₄₁		5 21.5 291°16'	3°0/20.1	17		226328	2003 <i>ET</i> ₃₆		5 21.5 170°38'	0°3/21.6	18	
4 21	16 15.83	-12 35.4	1.988	2.876	11.3	20.8	4 21	16 22.37	-19 40.7	1.887	2.763	12.4	20.4
5 1	16 10.12	-12 13.3	1.919	2.871	8.1	20.6	5 1	16 14.89	-20 10.0	1.817	2.765	8.7	20.2
5 11	16 2.72	-11 52.7	1.875	2.866	4.7	20.4	5 11	16 5.32	-20 36.6	1.773	2.767	4.6	20.0
5 21	15 54.36	-11 36.2	1.857	2.862	3.0	20.2	5 21	15 54.51	-20 59.8	1.757	2.769	0.4	19.6
5 31	15 45.93	-11 26.2	1.867	2.858	5.4	20.4	5 31	15 43.58	-21 19.6	1.769	2.770	4.1	19.9
6 10	15 38.35	-11 24.9	1.903	2.853	8.8	20.6	6 10	15 33.66	-21 37.5	1.808	2.771	8.3	20.2
6 20	15 32.34	-11 33.4	1.963	2.849	12.1	20.8	6 20	15 25.63	-21 55.3	1.873	2.772	12.0	20.4
6 30	15 28.41	-11 52.0	2.043	2.845	14.9	21.0	6 30	15 20.11	-22 15.4	1.959	2.772	15.1	20.6
457597	2009 <i>BA</i> ₂₃		5 21.5 47°97'	4°2/20.3	17		187469	2006 <i>BL</i> ₅₃		5 21.5 317°18'	4°8/16.5	18	
4 21	16 19.95	-11 41.8	1.164	2.068	16.3	20.9	4 21	16 7.99	+ 1 51.0	3.941	4.794	7.0	19.6
5 1	16 13.59	-11 27.4	1.123	2.082	11.6	20.7	5 1	16 4.03	+ 2 28.4	3.877	4.787	5.8	19.5
5 11	16 4.68	-11 17.9	1.103	2.096	6.8	20.4	5 11	15 59.32	+ 2 59.0	3.839	4.780	4.9	19.4
5 21	15 54.45	-11 16.6	1.106	2.111	4.3	20.3	5 21	15 54.21	+ 3 20.9	3.829	4.774	4.9	19.4
5 31	15 44.42	-11 26.1	1.133	2.127	7.3	20.5	5 31	15 49.09	+ 3 32.4	3.845	4.767	5.6	19.5
6 10	15 36.03	-11 47.8	1.183	2.143	11.9	20.8	6 10	15 44.34	+ 3 32.8	3.888	4.761	6.9	19.6
6 20	15 30.22	-12 21.5	1.253	2.159	16.1	21.1	6 20	15 40.29	+ 3 22.3	3.954	4.754	8.3	19.6
6 30	15 27.51	-13 6.1	1.342	2.176	19.6	21.4	6 30	15 37.22	+ 3 1.4	4.041	4.748	9.6	19.7
243856	2000 <i>WC</i> ₈₆		5 21.5 275°01'	1°7/22.6	18		196194	2003 <i>AZ</i> ₄₃		5 21.5 273°26'	1°1/21.9	16	
4 21	16 16.67	-27 0.8	2.481	3.344	10.3	19.9	4 21	16 21.95	-23 8.9	1.388	2.276	15.2	20.4
5 1	16 10.70	-26 45.7	2.379	3.317	7.5	19.6	5 1	16 15.48	-23 11.8	1.302	2.254	11.0	20.1
5 11	16 3.05	-26 21.3	2.302	3.290	4.4	19.4	5 11	16 6.03	-23 5.8	1.238	2.232	6.1	19.8
5 21	15 54.38	-25 47.9	2.253	3.262	1.8	19.1	5 21	15 54.56	-22 50.5	1.198	2.209	1.3	19.4
5 31	15 45.49	-25 7.2	2.233	3.234	3.5	19.2	5 31	15 42.56	-22 27.6	1.184	2.186	5.3	19.6
6 10	15 37.26	-24 22.4	2.241	3.205	6.8	19.4	6 10	15 31.67	-22 1.6	1.194	2.163	10.8	19.8
6 20	15 30.41	-23 37.4	2.275	3.176	10.1	19.5	6 20	15 23.25	-21 38.0	1.226	2.139	15.8	20.1
6 30	15 25.51	-22 56.1	2.333	3.147	12.9	19.7	6 30	15 18.19	-21 22.0	1.276	2.116	20.1	20.3
138689	2000 <i>SV</i> ₅₅		5 21.5 113°60'	3°2/19.4	18		165183	2000 <i>QN</i> ₁₈₆		5 21.5 240°35'	2°6/22.5	17	
4 21	16 14.36	-12 2.0	2.388	3.271	9.9	19.8	4 21	16 23.22	-26 59.9	1.811	2.677	13.3	20.7
5 1	16 8.74	-11 13.1	2.333	3.281	7.0	19.6	5 1	16 15.85	-27 15.2	1.722	2.661	9.8	20.4
5 11	16 1.85	-10 25.4	2.303	3.292	4.3	19.5	5 11	16 6.01	-27 20.2	1.658	2.644	5.9	20.2
5 21	15 54.32	-9 42.0	2.301	3.301	3.2	19.4	5 21	15 54.57	-27 13.6	1.619	2.627	2.7	19.9
5 31	15 46.86	-9 6.0	2.328	3.311	5.1	19.6	5 31	15 42.76	-26 56.0	1.609	2.608	4.8	20.0
6 10	15 40.18	-8 39.8	2.381	3.321	7.9	19.7	6 10	15 31.94	-26 30.6	1.625	2.589	8.9	20.2
6 20	15 34.81	-8 24.6	2.460	3.330	10.5	19.9	6 20	15 23.18	-26 2.4	1.666	2.569	12.9	20.4
6 30	15 31.15	-8 21.0	2.560	3.339	12.8	20.1	6 30	15 17.23	-25 36.6	1.727	2.548	16.4	20.6
229439	2005 <i>TA</i> ₁₈₀		5 21.5 124°87'	4°8/19.8	17		62412	2000 <i>SY</i> ₁₇₈		5 21.5 100°11'	2°2/22.8	18	R
4 21	16 19.38	- 7 1.7	1.877	2.756	12.3	20.2	4 21	16 16.53	-27 54.3	2.330	3.194	10.8	18.7
5 1	16 12.56	- 6 52.4	1.820	2.763	9.1	20.0	5 1	16 10.48	-27 52.6	2.264	3.201	7.9	18.6
5 11	16 3.97	- 6 50.3	1.787	2.770	6.0	19.8	5 11	16 2.86	-27 41.6	2.223	3.209	4.7	18.4
5 21	15 54.43	- 6 57.8	1.781	2.776	4.8	19.8	5 21	15 54.40	-27 21.6	2.209	3.216	2.3	18.2
5 31	15 44.91	- 7 16.5	1.803	2.783	6.7	19.9	5 31	15 45.96	-26 54.3	2.224	3.224	3.6	18.3
6 10	15 36.39	- 7 46.8	1.850	2.789	9.8	20.1	6 10	15 38.40	-26 22.7	2.266	3.231	6.7	18.5
6 20	15 29.62	- 8 28.1	1.922	2.795	12.9	20.3	6 20	15 32.38	-25 50.4	2.334	3.238	9.7	18.7
6 30	15 25.08	- 9 18.9	2.014	2.800	15.6	20.5	6 30	15 28.35	-25 20.9	2.424	3.245	12.3	18.9
245513	2005 <i>SY</i> ₅₆		5 21.5 249°49'	6°3/26.2	17		9755	1990 <i>RR</i> ₂		5 21.5 245°77'	3°0/19.9	18	
4 21	16 19.22	-42 18.3	2.392	3.197	12.5	19.8	4 21	16 17.80	-14 51.6	1.780	2.669	12.4	17.3
5 1	16 12.57	-42 13.2	2.310	3.192	10.3	19.6	5 1	16 11.72	-14 1.8	1.704	2.657	8.8	17.1
5 11	16 4.01	-41 48.7	2.251	3.187	8.1	19.4	5 11	16 3.67	-13 9.6	1.653	2.646	5.0	16.8
5 21	15 54.43	-41 3.5	2.216	3.182	6.5	19.3	5 21	15 54.45	-12 18.9	1.627	2.634	3.0	16.7
5 31	15 44.88	-39 59.0	2.209	3.178	6.5	19.3	5 31	15 45.11	-11 34.1	1.630	2.621	5.9	16.8
6 10	15 36.42	-38 39.4	2.228	3.173	8.0	19.4	6 10	15 36.72	-10 59.5	1.658	2.609	9.8	17.0
6 20	15 29.83	-37 11.2	2.273	3.168	10.3	19.5	6 20	15 30.13	-10 37.8	1.709	2.596	13.6	17.2
6 30	15 25.62	-35 40.9	2.342	3.163	12.7	19.7	6 30	15 25.91	-10 30.6	1.781	2.582	16.8	17.4
1594	Danjon		5 21.5 324°37'	1°6/21.2	18		492302	2014 <i>AC</i> ₁₇		5 21.5 100°88'	8°4/21.7	17	
4 21	16 18.84	-15 34.6	1.095	2.004	16.7	14.5	4 21	16 36.47	+ 1 49.8	1.198	2.056	19.2	20.5
5 1	16 13.65	-16 3.7	1.021	1.984	12.0	14.2	5 1	16 25.16	+ 0 49.9	1.151	2.076	14.8	20.3
5 11	16 5.20	-16 36.5	0.967	1.965	6.5	13.8	5 11	16 10.77	- 0 35.5	1.126	2.095	10.6	20.1
5 21	15 54.51	-17 13.2	0.935	1.946	1.6	13.4	5 21	15 54.81	- 2 25.7	1.127	2.114	8.4	20.1
5 31	15 43.18	-17 54.0	0.926	1.929	6.4	13.6	5 31	15 39.15	- 4 35.6	1.157	2.132	10.1	20.2
6 10	15 33.09	-18 39.3	0.939	1.913	12.4	13.9	6 10	15 25.55	- 6 57.1	1.213	2.150	13.9	20.5
6 20	15 25.75	-19 29.8	0.972	1.897	17.8	14.2	6 20	15 15.17	- 9 22.3	1.292	2.167	17.8	20.8
6 30	15 22.15	-20 26.2	1.022	1.883	22.4	14.4	6 30	15 8.55	-11 45.6	1.392	2.183	21.1	21.0
141919	2002 <i>PT</i> ₈₂		5 21.5 345°13'	1°3/21.9	17		380566	2004 <i>QW</i> ₂₄ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
250870	2005 <i>UX</i> ₄₁₂		5 21.5 265°73	0°8/21.0	18		420087	2011 <i>EF</i> ₅₂		5 21.5 78°18	2°0/22.4	17	
4 21	16 15.02	-18 34.6	2.460	3.340	9.7	21.6	4 21	16 21.27	-25 36.3	1.703	2.578	13.5	21.5
5 1	16 9.42	-18 16.2	2.373	3.324	6.8	21.4	5 1	16 14.07	-25 44.2	1.656	2.601	9.7	21.3
5 11	16 2.34	-17 54.6	2.312	3.307	3.6	21.2	5 11	16 4.82	-25 42.3	1.633	2.623	5.5	21.1
5 21	15 54.39	-17 31.2	2.279	3.291	0.8	20.9	5 21	15 54.55	-25 30.6	1.636	2.646	2.1	20.9
5 31	15 46.30	-17 8.2	2.275	3.274	3.6	21.1	5 31	15 44.47	-25 11.4	1.667	2.668	4.3	21.1
6 10	15 38.85	-16 48.1	2.298	3.257	7.0	21.3	6 10	15 35.74	-24 48.4	1.723	2.690	8.3	21.4
6 20	15 32.70	-16 32.9	2.347	3.240	10.1	21.5	6 20	15 29.15	-24 25.8	1.804	2.712	11.9	21.7
6 30	15 28.33	-16 24.7	2.419	3.222	12.8	21.6	6 30	15 25.17	-24 7.5	1.906	2.733	14.9	21.9
272840	2006 <i>BC</i> ₁₈		5 21.5 76°82	5°0/19.4	17		183629	2003 <i>UF</i> ₃₀₈		5 21.5 318°45	0°6/21.7	17	
4 21	16 18.29	- 8 1.9	1.725	2.611	12.8	20.7	4 21	16 17.31	-21 14.9	1.150	2.055	16.3	19.9
5 1	16 11.76	- 7 27.9	1.684	2.631	9.4	20.6	5 1	16 12.58	-21 26.3	1.069	2.030	11.8	19.6
5 11	16 3.51	- 7 0.4	1.668	2.652	6.2	20.4	5 11	16 4.68	-21 31.6	1.008	2.005	6.4	19.2
5 21	15 54.44	- 6 42.8	1.677	2.672	5.1	20.4	5 21	15 54.57	-21 30.5	0.969	1.981	0.8	18.7
5 31	15 45.57	- 6 37.9	1.713	2.692	7.0	20.5	5 31	15 43.80	-21 24.8	0.954	1.958	5.8	19.0
6 10	15 37.86	- 6 46.7	1.774	2.712	10.2	20.8	6 10	15 34.21	-21 18.2	0.961	1.936	11.8	19.3
6 20	15 31.99	- 7 8.9	1.858	2.732	13.2	21.0	6 20	15 27.29	-21 15.4	0.987	1.915	17.3	19.5
6 30	15 28.40	- 7 43.3	1.962	2.752	15.8	21.2	6 30	15 24.04	-21 20.7	1.030	1.895	22.0	19.7
477658	2010 <i>NA</i> ₆₉		5 21.5 298°82	2°5/22.4	16		465380	2008 <i>EH</i> ₁₄₆		5 21.5 16°01	5°3/23.3	17	
4 21	16 18.92	-26 5.1	2.136	3.004	11.5	20.7	4 21	16 21.08	-31 17.9	1.406	2.279	16.0	20.8
5 1	16 12.59	-26 44.1	2.044	2.984	8.5	20.5	5 1	16 14.73	-32 0.5	1.344	2.280	12.2	20.6
5 11	16 4.22	-27 16.9	1.977	2.963	5.1	20.3	5 11	16 5.52	-32 27.7	1.303	2.282	8.2	20.3
5 21	15 54.50	-27 41.8	1.937	2.943	2.6	20.1	5 21	15 54.60	-32 36.1	1.286	2.285	5.5	20.2
5 31	15 44.41	-27 58.1	1.925	2.923	4.3	20.1	5 31	15 43.53	-32 25.9	1.294	2.288	6.6	20.3
6 10	15 35.02	-28 7.2	1.940	2.903	7.8	20.3	6 10	15 33.92	-32 1.3	1.325	2.291	10.3	20.5
6 20	15 27.24	-28 11.6	1.980	2.883	11.2	20.5	6 20	15 26.96	-31 28.9	1.379	2.295	14.2	20.7
6 30	15 21.77	-28 14.8	2.043	2.863	14.2	20.6	6 30	15 23.33	-30 55.7	1.451	2.299	17.7	20.9
346252	2008 <i>DC</i> ₆₅		5 21.5 79°35	7°3/18.1	17		105706	2000 <i>SR</i> ₆₉		5 21.5 185°46	3°4/23.2	18	
4 21	16 15.97	+ 2 10.3	2.224	3.082	11.5	20.5	4 21	16 19.40	-31 5.6	2.593	3.438	10.4	19.4
5 1	16 9.89	+ 2 41.6	2.182	3.098	9.3	20.4	5 1	16 12.56	-31 38.2	2.516	3.438	7.9	19.2
5 11	16 2.47	+ 3 0.1	2.165	3.114	7.7	20.3	5 11	16 4.04	-32 1.4	2.465	3.438	5.3	19.1
5 21	15 54.40	+ 3 2.9	2.174	3.129	7.3	20.3	5 21	15 54.53	-32 13.6	2.441	3.437	3.5	19.0
5 31	15 46.46	+ 2 48.3	2.209	3.145	8.5	20.4	5 31	15 44.88	-32 14.8	2.446	3.436	4.3	19.0
6 10	15 39.38	+ 2 16.5	2.269	3.161	10.4	20.5	6 10	15 35.99	-32 7.1	2.479	3.435	6.7	19.2
6 20	15 33.72	+ 1 29.4	2.351	3.176	12.5	20.7	6 20	15 28.58	-31 53.3	2.539	3.433	9.4	19.3
6 30	15 29.86	+ 0 29.7	2.454	3.192	14.4	20.9	6 30	15 23.17	-31 37.2	2.621	3.432	11.7	19.5
156741	2002 <i>XQ</i> ₆₄		5 21.5 189°40	0°3/21.6	16		196780	2003 <i>SD</i> ₁₈₂		5 21.5 205°49	2°6/20.1	18	
4 21	16 21.48	-23 4.9	1.491	2.376	14.5	20.4	4 21	16 16.94	-12 27.0	2.527	3.403	9.6	20.7
5 1	16 14.59	-22 32.1	1.424	2.375	10.3	20.1	5 1	16 10.65	-12 6.9	2.451	3.397	6.9	20.5
5 11	16 5.26	-21 48.8	1.380	2.375	5.5	19.8	5 11	16 2.96	-11 47.9	2.402	3.391	4.0	20.3
5 21	15 54.55	-20 57.2	1.361	2.373	0.4	19.4	5 21	15 54.47	-11 32.0	2.381	3.385	2.6	20.2
5 31	15 43.82	-20 1.7	1.369	2.372	4.9	19.8	5 31	15 45.92	-11 21.1	2.389	3.377	4.5	20.3
6 10	15 34.44	-19 8.4	1.403	2.369	9.8	20.0	6 10	15 38.05	-11 17.0	2.425	3.370	7.5	20.5
6 20	15 27.39	-18 22.9	1.460	2.367	14.2	20.3	6 20	15 31.45	-11 20.8	2.487	3.361	10.3	20.7
6 30	15 23.29	-17 49.4	1.536	2.364	17.8	20.5	6 30	15 26.59	-11 33.0	2.571	3.352	12.7	20.8
179536	2002 <i>CG</i> ₂₂₅		5 21.5 316°80	13°6/ 9.0	17		360666	2004 <i>RE</i> ₁₅₅		5 21.5 265°70	10°9/28.1	18	
4 21	16 12.94	+18 5.3	2.038	2.837	14.6	19.4	4 21	16 29.05	-57 55.0	2.739	3.423	13.8	21.1
5 1	16 8.14	+19 44.5	1.987	2.819	13.8	19.3	5 1	16 20.46	-59 0.9	2.650	3.405	12.7	20.9
5 11	16 1.72	+21 0.4	1.958	2.802	13.6	19.3	5 11	16 8.68	-59 45.0	2.580	3.388	11.8	20.8
5 21	15 54.37	+21 46.8	1.948	2.784	14.1	19.3	5 21	15 54.78	-60 1.7	2.530	3.370	11.1	20.7
5 31	15 46.92	+21 59.6	1.958	2.767	15.1	19.3	5 31	15 40.35	-59 48.4	2.503	3.353	11.0	20.7
6 10	15 40.25	+21 38.7	1.987	2.751	16.4	19.4	6 10	15 27.20	-59 6.6	2.498	3.334	11.5	20.7
6 20	15 35.07	+20 46.7	2.031	2.735	17.9	19.5	6 20	15 16.72	-58 1.8	2.515	3.316	12.4	20.7
6 30	15 31.87	+19 28.3	2.089	2.719	19.3	19.5	6 30	15 9.79	-56 41.4	2.552	3.297	13.7	20.8
268437	2005 <i>VO</i> ₈₂		5 21.5 57°34	2°2/22.4	17		189550	2000 <i>RD</i> ₇₀		5 21.5 288°36	8°0/23.9	18	
4 21	16 20.78	-25 47.3	1.477	2.359	14.8	20.7	4 21	16 23.37	-38 27.8	1.748	2.582	15.2	19.7
5 1	16 13.93	-25 57.8	1.434	2.382	10.6	20.5	5 1	16 16.53	-39 32.5	1.658	2.561	12.5	19.5
5 11	16 4.80	-25 57.5	1.413	2.404	6.1	20.3	5 11	16 6.66	-40 20.4	1.590	2.540	9.8	19.3
5 21	15 54.52	-25 46.2	1.418	2.427	2.3	20.1	5 21	15 54.68	-40 45.8	1.546	2.518	8.1	19.1
5 31	15 44.48	-25 26.4	1.448	2.450	4.7	20.4	5 31	15 42.05	-40 45.8	1.527	2.497	8.6	19.1
6 10	15 35.96	-25 2.4	1.504	2.473	9.0	20.7	6 10	15 30.46	-40 22.6	1.532	2.476	11.0	19.2
6 20	15 29.80	-24 39.1	1.583	2.497	12.8	20.9	6 20	15 21.31	-39 42.2	1.560	2.454	14.2	19.3
6 30	15 26.50	-24 20.5	1.682	2.520	16.1	21.2	6 30	15 15.56	-38 53.2	1.607	2.433	17.2	19.5
311361	2005 <i>SW</i> ₃₉		5 21.5 279°12	3°3/23.1	18		248332	2005 <i>QM</i> ₄₁		5 21.5 262°19	5°1/17.8	18	
4 21	16 17.79	-29 53.1	2.253	3.111	11.3	20.6	4 21	16 13.96	- 5 47.1	2.439	3.315	9.9	21.1
5 1	16 11.65	-30 15.6	2.169	3.100	8.5	20.4	5 1	16 8.63	- 4 47.0	2.360	3.298	7.6	20.9
5 11	16 3.63	-30 28.2	2.109	3.088	5.5	20.2	5 11	16 1.93	- 3 51.0	2.307	3.280	5.6	20.7
5 21	15 54.48	-30 29.7	2.076	3.077	3.4	20.1	5 21	15 54.42	- 3 3.2	2.282	3.263	5.2	20.7
5 31	15 45.12	-30 20.5	2.071	3.066	4.4	20.1	5 31	15 46.82	- 2 27.1	2.284	3.244	6.8	20.8
6 10	15 36.55	-30 2.9	2.093	3.054	7.4	20.3	6 10	15 39.83	- 2 5.2	2.312	3.226	9.3	20.9
6 20	15 29.59	-29 40.4	2.140	3.043	10.5	20.4	6 20	15 34.06	- 1 58.4	2.364	3.208	11.8	21.0
6 30	15 24.84	-29 17.4	2.209	3.032	13.3	20.6	6 30	15 29.97	- 2 6.4	2.437	3.189	14.1	21.2
387068	2012 <i>TT</i> ₇₁		5 21.5 303°18	2°6/22.7	17		336996						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
1524	Joensuu		5 21.5 267°31'	5°7'/24.5 18			268933	2007 DT ₁₃		5 21.6 257°77'	6°3'/24.5 18		
4 21	16 19.20	-37 52.7	2.381	3.206	11.9	15.8	4 21	16 22.31	-36 57.1	1.825	2.664	14.4	20.9
5 1	16 12.72	-38 23.4	2.295	3.195	9.6	15.7	5 1	16 15.40	-37 18.2	1.738	2.649	11.5	20.7
5 11	16 4.25	-38 39.5	2.233	3.184	7.3	15.5	5 11	16 5.86	-37 20.8	1.672	2.633	8.5	20.5
5 21	15 54.55	-38 38.7	2.196	3.172	5.8	15.4	5 21	15 54.67	-37 1.8	1.632	2.617	6.4	20.3
5 31	15 44.65	-38 20.9	2.186	3.161	6.1	15.4	5 31	15 43.19	-36 21.2	1.617	2.600	6.9	20.3
6 10	15 35.60	-37 48.6	2.203	3.149	8.0	15.5	6 10	15 32.85	-35 23.4	1.628	2.583	9.6	20.4
6 20	15 28.27	-37 6.3	2.245	3.137	10.5	15.6	6 20	15 24.79	-34 15.4	1.663	2.566	12.9	20.6
6 30	15 23.29	-36 19.5	2.309	3.125	12.9	15.8	6 30	15 19.76	-33 5.3	1.718	2.549	16.1	20.8
504088	2006 CT ₁₅		5 21.5 41°28'	9°5'/26.2 17			174510	2003 BR ₆₈		5 21.6 7°95'	1°2'/20.9 18		
4 21	16 22.97	-43 23.7	1.645	2.463	16.7	20.2	4 21	16 15.28	-18 5.8	1.953	2.841	11.5	20.4
5 1	16 16.06	-44 16.5	1.586	2.471	14.0	20.1	5 1	16 9.80	-17 45.8	1.887	2.841	8.0	20.2
5 11	16 6.21	-44 44.7	1.548	2.479	11.4	19.9	5 11	16 2.62	-17 22.7	1.846	2.842	4.2	20.0
5 21	15 54.65	-44 44.0	1.532	2.488	9.7	19.8	5 21	15 54.50	-16 58.6	1.831	2.843	1.2	19.8
5 31	15 43.06	-44 13.7	1.539	2.497	9.7	19.9	5 31	15 46.36	-16 36.0	1.844	2.844	4.3	20.0
6 10	15 33.09	-43 19.1	1.570	2.506	11.3	20.0	6 10	15 39.12	-16 18.1	1.884	2.845	8.1	20.2
6 20	15 25.93	-42 8.7	1.623	2.516	13.8	20.1	6 20	15 33.51	-16 6.9	1.947	2.847	11.5	20.4
6 30	15 22.22	-40 51.8	1.695	2.526	16.3	20.3	6 30	15 30.01	-16 4.3	2.031	2.849	14.4	20.6
124595	2001 SZ ₂₅		5 21.5 175°56'	3°2'/20.1 18			232140	2002 CF ₇		5 21.6 141°15'	8°7'/19.1 16		
4 21	16 20.66	-14 19.4	1.645	2.533	13.3	20.4	4 21	16 24.16	+ 8 0.0	2.224	3.047	12.7	20.9
5 1	16 13.74	-13 34.5	1.583	2.535	9.4	20.1	5 1	16 15.63	+ 8 2.8	2.172	3.058	10.7	20.8
5 11	16 4.74	-12 48.6	1.544	2.537	5.4	19.9	5 11	16 5.53	+ 7 47.7	2.145	3.069	9.1	20.7
5 21	15 54.58	-12 5.5	1.532	2.538	3.2	19.8	5 21	15 54.66	+ 7 12.4	2.145	3.079	8.7	20.7
5 31	15 44.45	-11 29.5	1.547	2.539	6.1	19.9	5 31	15 43.92	+ 6 16.4	2.172	3.089	9.6	20.8
6 10	15 35.48	-11 4.5	1.588	2.539	10.2	20.2	6 10	15 34.19	+ 5 1.5	2.227	3.098	11.4	20.9
6 20	15 28.53	-10 52.7	1.652	2.538	14.0	20.4	6 20	15 26.11	+ 3 31.5	2.305	3.106	13.4	21.1
6 30	15 24.15	-10 54.8	1.736	2.537	17.1	20.6	6 30	15 20.12	+ 1 50.5	2.405	3.114	15.3	21.2
484043	2006 EV ₄₆		5 21.5 292°24'	6°8'/12.4 18			7424	1992 PS ₆		5 21.6 172°50'	0°3'/21.7 18		
4 21	16 7.98	+16 11.2	4.377	5.157	7.6	20.7	4 21	16 20.22	-23 15.0	1.686	2.567	13.4	17.8
5 1	16 3.99	+16 58.1	4.334	5.156	7.1	20.7	5 1	16 13.50	-22 42.3	1.620	2.569	9.5	17.5
5 11	15 59.32	+17 33.6	4.315	5.155	6.8	20.6	5 11	16 4.64	-22 0.1	1.577	2.571	5.1	17.3
5 21	15 54.30	+17 55.8	4.320	5.154	7.0	20.7	5 21	15 54.61	-21 10.5	1.561	2.573	0.5	16.9
5 31	15 49.28	+18 3.3	4.348	5.153	7.5	20.7	5 31	15 44.62	-20 17.4	1.572	2.574	4.4	17.2
6 10	15 44.63	+17 56.0	4.399	5.152	8.2	20.7	6 10	15 35.82	-19 26.1	1.609	2.574	8.9	17.5
6 20	15 40.64	+17 34.8	4.469	5.151	9.0	20.8	6 20	15 29.09	-18 41.5	1.670	2.574	12.8	17.7
6 30	15 37.57	+17 0.9	4.558	5.150	9.8	20.9	6 30	15 24.98	-18 7.4	1.752	2.574	16.2	17.9
332014	2005 NT ₄₇		5 21.5 298°17'	0°8'/22.0 18			289554	2005 EM ₂₄₈		5 21.6 133°92'	0°6'/21.8 17		
4 21	16 12.97	-23 38.2	2.921	3.791	8.7	21.4	4 21	16 21.58	-22 49.5	1.707	2.586	13.3	21.7
5 1	16 7.90	-23 33.7	2.826	3.770	6.2	21.2	5 1	16 14.38	-22 39.3	1.648	2.596	9.4	21.5
5 11	16 1.55	-23 24.0	2.757	3.748	3.4	21.0	5 11	16 5.07	-22 21.2	1.613	2.606	5.1	21.2
5 21	15 54.42	-23 9.7	2.716	3.727	0.8	20.8	5 21	15 54.64	-21 56.3	1.604	2.616	0.7	20.9
5 31	15 47.16	-22 51.9	2.704	3.706	2.9	20.9	5 31	15 44.28	-21 27.3	1.623	2.625	4.3	21.2
6 10	15 40.41	-22 32.8	2.720	3.684	5.8	21.1	6 10	15 35.18	-20 58.3	1.669	2.634	8.6	21.5
6 20	15 34.75	-22 14.4	2.763	3.663	8.5	21.2	6 20	15 28.17	-20 33.3	1.738	2.642	12.4	21.8
6 30	15 30.61	-21 59.0	2.829	3.642	10.9	21.3	6 30	15 23.78	-20 15.6	1.828	2.650	15.6	22.0
497288	2005 SE ₆₄		5 21.5 216°51'	0°0'/21.5 17			255289	2005 VF ₉₀		5 21.6 220°56'	2°2'/22.7 18		
4 21	16 19.26	-21 24.6	2.193	3.067	11.0	23.4	4 21	16 16.67	-27 30.1	2.421	3.284	10.5	20.6
5 1	16 12.54	-21 8.6	2.111	3.058	7.8	23.2	5 1	16 10.66	-27 42.2	2.346	3.283	7.7	20.4
5 11	16 4.07	-20 46.8	2.055	3.049	4.1	23.0	5 11	16 3.06	-27 46.1	2.296	3.281	4.7	20.2
5 21	15 54.56	-20 20.2	2.026	3.038	0.2	22.6	5 21	15 54.54	-27 41.5	2.274	3.280	2.3	20.0
5 31	15 44.94	-19 51.2	2.027	3.028	3.7	22.9	5 31	15 45.94	-27 29.4	2.280	3.279	3.7	20.1
6 10	15 36.14	-19 22.8	2.055	3.016	7.5	23.1	6 10	15 38.11	-27 12.0	2.314	3.278	6.7	20.3
6 20	15 28.92	-18 58.3	2.109	3.004	11.0	23.3	6 20	15 31.74	-26 52.5	2.373	3.276	9.6	20.5
6 30	15 23.83	-18 40.4	2.185	2.991	13.9	23.5	6 30	15 27.33	-26 34.0	2.455	3.275	12.2	20.7
482460	2012 GD ₁₂		5 21.5 116°73'	17°0'/20.6 17			479018	2012 YW ₁		5 21.6 94°66'	4°6'/19.5 17		
4 21	16 30.23	+15 40.3	1.123	1.952	22.2	20.5	4 21	16 16.67	- 5 11.4	2.363	3.235	10.4	21.4
5 1	16 20.89	+16 2.8	1.085	1.961	19.6	20.3	5 1	16 10.40	- 5 0.2	2.311	3.248	7.8	21.2
5 11	16 8.59	+15 44.8	1.064	1.970	17.7	20.2	5 11	16 2.81	- 4 56.0	2.286	3.261	5.5	21.1
5 21	15 54.79	+14 39.3	1.062	1.979	17.0	20.2	5 21	15 54.54	- 5 0.9	2.287	3.275	4.6	21.1
5 31	15 41.33	+12 46.5	1.081	1.988	17.8	20.3	5 31	15 46.35	- 5 16.2	2.317	3.288	6.1	21.2
6 10	15 29.86	+10 14.3	1.121	1.996	19.8	20.4	6 10	15 38.95	- 5 42.3	2.373	3.301	8.5	21.4
6 20	15 21.47	+ 7 15.3	1.179	2.003	22.3	20.6	6 20	15 32.91	- 6 18.4	2.455	3.314	10.9	21.5
6 30	15 16.68	+ 4 1.8	1.255	2.011	24.7	20.9	6 30	15 28.63	- 7 3.5	2.558	3.326	13.1	21.7
470469	2008 AJ ₇₂		5 21.6 133°86'	1°3'/22.4 17			26061	2315 T ₋₃		5 21.6 185°93'	0°4'/21.4 17		
4 21	16 17.07	-25 28.8	2.510	3.375	10.1	22.1	4 21	16 20.18	-20 47.5	1.844	2.724	12.4	19.6
5 1	16 10.76	-25 24.8	2.444	3.385	7.2	21.9	5 1	16 13.36	-20 22.8	1.774	2.724	8.8	19.4
5 11	16 3.01	-25 13.6	2.405	3.394	4.1	21.7	5 11	16 4.56	-19 51.8	1.729	2.723	4.6	19.2
5 21	15 54.51	-24 55.7	2.393	3.403	1.4	21.5	5 21	15 54.65	-19 16.3	1.710	2.723	0.4	18.8
5 31	15 46.03	-24 32.7	2.411	3.412	3.2	21.7	5 31	15 44.71	-18 39.5	1.720	2.721	4.3	19.1
6 10	15 38.37	-24 7.2	2.457	3.420	6.3	21.9	6 10	15 35.83	-18 5.3	1.757	2.719	8.5	19.4
6 20	15 32.13	-23 42.3	2.529	3.428	9.2	22.1	6 20	15 28.83	-17 37.4	1.818	2.716	12.3	19.6
6 30	15 27.75	-23 20.5	2.624	3.436	11.7	22.3	6 30	15 24.26	-17 18.6	1.900	2.713	15.4	19.8
116003	2003 WN ₇₅		5 21.6 253°00'	1°4'/22.2 18			501360	2013 YD ₃₃		5 21.6 180°06'	0°6'/21.3 17		
4 21	16 18.01	-24 34.7											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
365235	2009 JZ ₆		5 21.6 336°92	6°4/19.5	17		295875	2008 WL ₃₈		5 21.6 53°55	0°4/21.4	18	
4 21	16 14.64	- 8 55.9	1.087	1.999	16.4	19.9	4 21	16 18.61	-18 54.7	1.786	2.672	12.5	20.3
5 1	16 10.42	- 8 19.9	1.022	1.983	12.2	19.6	5 1	16 12.29	-19 4.0	1.726	2.678	8.8	20.1
5 11	16 3.40	- 7 51.2	0.978	1.969	8.1	19.3	5 11	16 4.02	-19 10.5	1.689	2.685	4.6	19.9
5 21	15 54.60	- 7 35.8	0.955	1.955	6.5	19.1	5 21	15 54.66	-19 14.7	1.679	2.691	0.4	19.6
5 31	15 45.51	- 7 38.7	0.953	1.943	9.4	19.3	5 31	15 45.28	-19 18.0	1.697	2.698	4.2	19.9
6 10	15 37.69	- 8 2.8	0.973	1.932	14.0	19.5	6 10	15 36.96	-19 22.4	1.740	2.705	8.3	20.1
6 20	15 32.38	- 8 47.3	1.011	1.922	18.6	19.7	6 20	15 30.49	-19 30.1	1.808	2.712	12.0	20.4
6 30	15 30.36	- 9 49.9	1.065	1.914	22.6	19.9	6 30	15 26.44	-19 42.9	1.896	2.719	15.1	20.6
511285	2014 DS ₄₂		5 21.6 36°18	8°2/16.2	18		73937	1997 SV ₆		5 21.6 175°31	0°1/21.6	18	
4 21	16 13.94	+ 2 36.4	2.116	2.979	11.8	21.1	4 21	16 17.07	-21 40.6	2.238	3.114	10.7	21.2
5 1	16 8.67	+ 3 45.9	2.065	2.980	9.8	21.0	5 1	16 10.94	-21 26.4	2.168	3.116	7.5	21.0
5 11	16 1.97	+ 4 42.9	2.039	2.981	8.5	20.9	5 11	16 3.22	-21 6.7	2.123	3.117	4.0	20.8
5 21	15 54.52	+ 5 22.5	2.037	2.982	8.4	20.9	5 21	15 54.62	-20 42.8	2.105	3.117	0.3	20.5
5 31	15 47.09	+ 5 41.4	2.061	2.984	9.7	21.0	5 31	15 46.00	-20 16.7	2.116	3.118	3.5	20.7
6 10	15 40.47	+ 5 38.6	2.108	2.985	11.7	21.1	6 10	15 38.21	-19 51.4	2.155	3.118	7.1	21.0
6 20	15 35.25	+ 5 15.2	2.176	2.987	13.8	21.3	6 20	15 31.95	-19 29.7	2.219	3.118	10.3	21.2
6 30	15 31.87	+ 4 33.8	2.263	2.988	15.7	21.4	6 30	15 27.67	-19 14.1	2.305	3.118	13.1	21.3
138709	2000 SJ ₁₀₁		5 21.6 160°47	1°4/22.6	18		342417	2008 UO ₇₀		5 21.6 195°28	3°2/23.1	17	
4 21	16 16.07	-26 52.4	2.515	3.379	10.1	20.4	4 21	16 19.13	-29 38.8	1.991	2.853	12.4	21.2
5 1	16 10.10	-26 26.6	2.443	3.382	7.3	20.2	5 1	16 12.70	-29 47.9	1.919	2.853	9.3	21.0
5 11	16 2.71	-25 52.0	2.397	3.385	4.2	20.0	5 11	16 4.27	-29 45.3	1.870	2.852	5.9	20.8
5 21	15 54.56	-25 9.6	2.379	3.388	1.5	19.8	5 21	15 54.68	-29 30.3	1.848	2.851	3.3	20.6
5 31	15 46.46	-24 21.9	2.390	3.391	3.2	20.0	5 31	15 45.02	-29 4.2	1.853	2.850	4.5	20.7
6 10	15 39.17	-23 32.3	2.429	3.393	6.3	20.2	6 10	15 36.37	-28 30.6	1.884	2.849	7.8	20.9
6 20	15 33.28	-22 44.6	2.494	3.395	9.3	20.4	6 20	15 29.58	-27 54.1	1.941	2.848	11.2	21.1
6 30	15 29.22	-22 2.1	2.583	3.397	11.8	20.5	6 30	15 25.21	-27 19.4	2.019	2.846	14.2	21.3
70077	1999 JJ ₅₉		5 21.6 325°89	4°6/19.6	17		253508	2003 SH ₁₄₇		5 21.6 306°13	0°7/21.9	17	
4 21	16 15.44	-13 38.2	1.164	2.074	15.8	18.8	4 21	16 17.57	-23 41.7	1.287	2.184	15.6	19.7
5 1	16 10.86	-12 41.4	1.097	2.060	11.4	18.5	5 1	16 12.49	-23 16.8	1.205	2.161	11.2	19.4
5 11	16 3.58	-11 43.1	1.051	2.046	6.8	18.2	5 11	16 4.55	-22 39.2	1.143	2.139	6.2	19.0
5 21	15 54.62	-10 49.5	1.028	2.033	4.7	18.0	5 21	15 54.71	-21 50.3	1.105	2.117	0.9	18.6
5 31	15 45.44	-10 7.3	1.027	2.021	8.1	18.2	5 31	15 44.47	-20 54.4	1.092	2.096	5.4	18.8
6 10	15 37.53	- 9 42.4	1.049	2.009	13.0	18.4	6 10	15 35.42	-19 58.4	1.102	2.074	11.0	19.1
6 20	15 32.07	- 9 37.4	1.090	1.999	17.7	18.6	6 20	15 28.83	-19 9.2	1.132	2.054	16.2	19.3
6 30	15 29.78	- 9 52.6	1.147	1.989	21.8	18.8	6 30	15 25.57	-18 32.6	1.181	2.034	20.6	19.5
290355	2005 SJ ₂₅₉		5 21.6 235°45	3°9/19.4	17		472224	2014 FR ₄₉		5 21.6 97°61	1°2/22.4	18	
4 21	16 15.02	- 8 15.6	2.439	3.317	9.9	20.6	4 21	16 16.32	-26 5.7	2.215	3.085	11.0	20.3
5 1	16 9.37	- 7 50.6	2.367	3.311	7.3	20.4	5 1	16 10.38	-25 33.8	2.151	3.094	7.9	20.1
5 11	16 2.35	- 7 29.7	2.322	3.304	4.8	20.2	5 11	16 2.89	-24 52.5	2.112	3.102	4.4	19.9
5 21	15 54.56	- 7 15.4	2.303	3.297	3.9	20.2	5 21	15 54.61	-24 3.5	2.100	3.111	1.3	19.7
5 31	15 46.70	- 7 9.8	2.313	3.291	5.6	20.3	5 31	15 46.42	-23 9.9	2.117	3.120	3.4	19.8
6 10	15 39.52	- 7 14.4	2.350	3.284	8.2	20.4	6 10	15 39.17	-22 15.9	2.162	3.128	6.9	20.1
6 20	15 33.59	- 7 29.6	2.411	3.276	10.9	20.6	6 20	15 33.48	-21 25.4	2.233	3.136	10.1	20.3
6 30	15 29.37	- 7 55.1	2.494	3.269	13.2	20.7	6 30	15 29.81	-20 42.0	2.325	3.144	12.8	20.5
424018	2006 WZ ₁₉₄		5 21.6 216°60	1°5/20.8	17		292395	2006 SA ₂₇₃		5 21.6 346°29	1°2/20.9	18	
4 21	16 19.98	-16 57.9	2.125	3.003	11.1	22.7	4 21	16 13.36	-19 49.5	1.571	2.469	13.1	19.5
5 1	16 13.10	-16 39.3	2.044	2.993	7.9	22.5	5 1	16 8.86	-19 6.1	1.502	2.460	9.3	19.3
5 11	16 4.42	-16 18.2	1.989	2.983	4.2	22.2	5 11	16 2.31	-18 15.8	1.455	2.452	4.9	19.0
5 21	15 54.67	-15 56.3	1.962	2.972	1.5	22.0	5 21	15 54.58	-17 22.1	1.434	2.445	1.2	18.7
5 31	15 44.79	-15 36.0	1.964	2.961	4.4	22.2	5 31	15 46.78	-16 29.7	1.438	2.439	5.0	18.9
6 10	15 35.73	-15 20.0	1.993	2.948	8.1	22.4	6 10	15 40.02	-15 43.9	1.467	2.434	9.4	19.2
6 20	15 28.26	-15 10.7	2.047	2.935	11.6	22.6	6 20	15 35.17	-15 8.7	1.519	2.429	13.5	19.4
6 30	15 22.94	-15 9.8	2.124	2.921	14.6	22.8	6 30	15 32.80	-14 46.8	1.590	2.426	16.9	19.6
314509	2005 XS ₃₄		5 21.6 261°35	1°3/22.5	18		474595	2004 PH ₉₃		5 21.6 250°56	2°9/23.7	16	
4 21	16 15.80	-26 23.0	2.641	3.505	9.7	21.4	4 21	16 16.93	-32 34.3	3.118	3.955	9.1	22.6
5 1	16 10.01	-26 3.4	2.546	3.485	7.0	21.2	5 1	16 10.70	-32 30.0	3.016	3.933	6.9	22.4
5 11	16 2.74	-25 35.4	2.477	3.465	4.1	20.9	5 11	16 3.08	-32 15.4	2.940	3.911	4.7	22.2
5 21	15 54.58	-24 59.6	2.436	3.445	1.4	20.7	5 21	15 54.63	-31 50.3	2.892	3.888	3.0	22.1
5 31	15 46.30	-24 17.9	2.424	3.425	3.2	20.8	5 31	15 46.04	-31 15.5	2.873	3.865	3.6	22.1
6 10	15 38.67	-23 33.5	2.440	3.404	6.3	21.0	6 10	15 38.03	-30 33.6	2.883	3.841	5.8	22.2
6 20	15 32.32	-22 49.7	2.483	3.383	9.3	21.1	6 20	15 31.22	-29 47.7	2.921	3.816	8.3	22.3
6 30	15 27.76	-22 10.1	2.549	3.362	12.0	21.3	6 30	15 26.06	-29 1.5	2.983	3.791	10.5	22.4
308565	2005 UP ₃₇₀		5 21.6 265°89	0°5/21.3	18		192037	2005 YU ₂₇₄		5 21.6 109°75	2°2/20.5	17	
4 21	16 16.57	-18 25.3	2.393	3.271	10.0	21.0	4 21	16 18.45	-15 17.8	2.017	2.899	11.4	20.6
5 1	16 10.61	-18 30.3	2.310	3.259	7.1	20.8	5 1	16 11.83	-14 48.6	1.966	2.916	8.0	20.5
5 11	16 3.08	-18 33.4	2.253	3.247	3.7	20.6	5 11	16 3.64	-14 18.6	1.940	2.933	4.4	20.3
5 21	15 54.61	-18 35.0	2.223	3.235	0.5	20.3	5 21	15 54.65	-13 50.5	1.942	2.950	2.2	20.1
5 31	15 45.98	-18 36.4	2.223	3.223	3.6	20.5	5 31	15 45.80	-13 26.9	1.972	2.966	4.7	20.3
6 10	15 38.02	-18 39.2	2.250	3.211	7.0	20.7	6 10	15 37.97	-13 10.4	2.029	2.982	8.2	20.6
6 20	15 31.40	-18 45.0	2.303	3.198	10.2	20.9	6 20	15 31.79	-13 2.7	2.110	2.997	11.3	20.8
6 30	15 26.66	-18 55.4	2.378	3.186	12.9	21.1	6 30	15 27.70	-13 4.6	2.213	3.011	14.0	21.0
276123	2002 GA ₈₃		5 21.6 41°11	5°7/18.9	17		173163	1996 XP ₁₂		5 21.6 164°64	2°5/22.8	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
254915	2005 <i>SO</i> ₁₀₂		5 21.6 141°35	0°3/21.4	18		486074	2012 <i>UN</i> ₁₈		5 21.6 316°16	1°4/22.9	18	
4 21	16 14.87	-21 12.3	2.409	3.287	10.0	20.4	4 21	16 9.71	-27 53.6	4.120	4.975	6.7	21.4
5 1	16 9.28	-20 39.1	2.341	3.290	7.0	20.3	5 1	16 5.35	-27 43.4	4.039	4.972	4.9	21.2
5 11	16 2.30	-20 0.5	2.298	3.293	3.7	20.0	5 11	16 0.17	-27 27.7	3.984	4.968	2.9	21.1
5 21	15 54.59	-19 18.6	2.284	3.296	0.3	19.8	5 21	15 54.54	-27 7.0	3.958	4.964	1.4	21.0
5 31	15 46.90	-18 36.1	2.298	3.298	3.4	20.0	5 31	15 48.89	-26 42.3	3.962	4.961	2.2	21.0
6 10	15 39.99	-17 56.2	2.340	3.301	6.7	20.2	6 10	15 43.65	-26 15.2	3.994	4.957	4.1	21.2
6 20	15 34.44	-17 21.7	2.407	3.303	9.8	20.4	6 20	15 39.20	-25 47.4	4.054	4.954	6.0	21.3
6 30	15 30.69	-16 55.0	2.497	3.306	12.3	20.6	6 30	15 35.83	-25 20.9	4.138	4.950	7.8	21.4
394348	2007 <i>AJ</i> ₂₃		5 21.6 133°64	8°2/16.5	18		475301	2005 <i>XF</i> ₆₈		5 21.6 219°08	0°8/22.1	18	
4 21	16 14.69	+ 7 18.9	2.524	3.361	11.0	20.7	4 21	16 15.67	-23 46.8	2.899	3.764	8.9	22.6
5 1	16 9.01	+ 8 1.5	2.476	3.366	9.4	20.6	5 1	16 9.79	-23 41.6	2.815	3.756	6.3	22.4
5 11	16 2.11	+ 8 30.0	2.452	3.370	8.4	20.6	5 11	16 2.61	-23 30.9	2.757	3.748	3.5	22.2
5 21	15 54.59	+ 8 40.9	2.453	3.375	8.3	20.6	5 21	15 54.68	-23 15.3	2.728	3.739	0.9	22.0
5 31	15 47.11	+ 8 32.3	2.479	3.379	9.3	20.6	5 31	15 46.67	-22 56.1	2.729	3.730	2.9	22.1
6 10	15 40.34	+ 8 4.3	2.529	3.383	10.8	20.7	6 10	15 39.26	-22 35.3	2.758	3.720	5.8	22.3
6 20	15 34.80	+ 7 18.7	2.601	3.387	12.5	20.9	6 20	15 33.01	-22 15.4	2.814	3.710	8.5	22.5
6 30	15 30.87	+ 6 18.3	2.693	3.390	14.1	21.0	6 30	15 28.35	-21 58.5	2.894	3.700	10.9	22.6
352095	2006 <i>XR</i> ₇₁		5 21.6 220°30	3°9/19.2	18		97421	2000 <i>AK</i> ₁₇₆		5 21.6 151°79	2°0/20.3	18	
4 21	16 14.69	- 8 3.9	2.536	3.413	9.6	21.2	4 21	16 16.88	-15 47.7	2.396	3.274	10.0	20.7
5 1	16 9.10	- 7 35.6	2.466	3.408	7.1	21.0	5 1	16 10.64	-15 8.2	2.333	3.282	7.0	20.5
5 11	16 2.21	- 7 11.4	2.421	3.403	4.7	20.9	5 11	16 3.02	-14 27.1	2.298	3.290	3.9	20.4
5 21	15 54.60	- 6 53.6	2.405	3.398	3.9	20.8	5 21	15 54.70	-13 47.0	2.290	3.298	2.0	20.2
5 31	15 46.94	- 6 44.6	2.416	3.392	5.5	20.9	5 31	15 46.43	-13 10.6	2.312	3.305	4.3	20.4
6 10	15 39.93	- 6 45.7	2.455	3.386	8.0	21.1	6 10	15 38.98	-12 40.9	2.361	3.311	7.4	20.6
6 20	15 34.13	- 6 57.3	2.518	3.381	10.6	21.2	6 20	15 32.90	-12 19.7	2.436	3.317	10.2	20.8
6 30	15 29.96	- 7 19.3	2.603	3.374	12.8	21.4	6 30	15 28.63	-12 8.3	2.533	3.322	12.7	21.0
274337	2008 <i>RP</i> ₂₅		5 21.6 261°07	8°2/15.8	18		156790	2003 <i>BY</i> ₁₂		5 21.6 50°07	4°1/20.1	18	
4 21	16 15.67	- 0 23.1	1.963	2.835	12.2	20.5	4 21	16 19.02	-12 2.7	1.326	2.225	15.0	19.5
5 1	16 10.12	+ 1 8.1	1.895	2.819	9.9	20.3	5 1	16 12.70	-11 32.1	1.292	2.248	10.7	19.3
5 11	16 2.88	+ 2 30.5	1.850	2.804	8.4	20.2	5 11	16 4.23	-11 5.3	1.280	2.272	6.3	19.1
5 21	15 54.65	+ 3 37.6	1.832	2.788	8.4	20.1	5 21	15 54.76	-10 46.0	1.292	2.296	4.1	19.0
5 31	15 46.30	+ 4 24.2	1.839	2.772	10.1	20.2	5 31	15 45.60	-10 37.7	1.329	2.321	6.9	19.3
6 10	15 38.75	+ 4 47.2	1.869	2.755	12.6	20.3	6 10	15 37.92	-10 42.1	1.390	2.346	10.9	19.5
6 20	15 32.71	+ 4 46.8	1.921	2.738	15.1	20.4	6 20	15 32.54	-10 59.5	1.473	2.371	14.6	19.8
6 30	15 28.71	+ 4 24.6	1.991	2.721	17.5	20.6	6 30	15 29.86	-11 29.0	1.574	2.396	17.7	20.1
344631	2003 <i>LY</i> ₂		5 21.6 339°03	12°6/1.3	16		59435	1999 <i>GE</i> ₂₀		5 21.6 341°21	1°3/21.3	18	
4 21	16 20.24	-55 23.7	1.018	1.820	25.7	18.6	4 21	16 17.96	-16 25.9	1.317	2.218	15.0	17.9
5 1	16 16.31	-53 55.0	0.899	1.770	23.2	18.2	5 1	16 12.56	-16 46.8	1.249	2.208	10.6	17.6
5 11	16 7.24	-51 3.2	0.794	1.722	19.6	17.8	5 11	16 4.51	-17 8.6	1.202	2.199	5.7	17.3
5 21	15 54.92	-46 21.7	0.708	1.677	15.5	17.3	5 21	15 54.80	-17 31.6	1.179	2.191	1.3	16.9
5 31	15 42.39	-39 35.9	0.645	1.634	12.6	17.0	5 31	15 44.80	-17 56.7	1.181	2.183	5.5	17.2
6 10	15 32.65	-31 5.5	0.611	1.594	14.9	16.9	6 10	15 35.98	-18 25.1	1.207	2.177	10.6	17.5
6 20	15 27.41	-21 49.8	0.608	1.558	21.4	17.0	6 20	15 29.49	-18 58.2	1.254	2.171	15.2	17.7
6 30	15 27.20	-13 3.5	0.632	1.526	28.6	17.3	6 30	15 26.10	-19 37.0	1.319	2.167	19.1	18.0
300919	2008 <i>CX</i> ₁₆		5 21.6 132°99	1°4/20.7	18		307337	2002 <i>RD</i> ₄₄		5 21.6 248°60	0°9/21.9	18	
4 21	16 15.53	-16 35.0	2.642	3.520	9.2	22.3	4 21	16 20.86	-23 10.3	1.803	2.680	12.8	20.9
5 1	16 9.60	-16 12.0	2.582	3.531	6.4	22.1	5 1	16 14.17	-23 9.6	1.718	2.665	9.2	20.6
5 11	16 2.44	-15 47.5	2.548	3.542	3.5	21.9	5 11	16 5.22	-23 1.3	1.657	2.650	5.1	20.3
5 21	15 54.64	-15 23.3	2.542	3.552	1.4	21.8	5 21	15 54.84	-22 45.7	1.622	2.634	1.0	20.0
5 31	15 46.90	-15 1.4	2.566	3.562	3.6	21.9	5 31	15 44.19	-22 24.4	1.615	2.618	4.3	20.2
6 10	15 39.87	-14 43.9	2.618	3.572	6.5	22.2	6 10	15 34.48	-22 0.9	1.635	2.601	8.7	20.4
6 20	15 34.09	-14 32.3	2.696	3.581	9.2	22.3	6 20	15 26.70	-21 39.2	1.679	2.583	12.8	20.6
6 30	15 29.94	-14 27.9	2.797	3.590	11.5	22.5	6 30	15 21.54	-21 23.2	1.743	2.565	16.3	20.8
505320	2012 <i>XF</i> ₁₃₆		5 21.6 143°37	3°4/24.5	18		78517	2002 <i>RW</i> ₉₂		5 21.6 250°61	0°7/21.9	18	
4 21	16 18.21	-35 16.3	2.988	3.815	9.7	22.7	4 21	16 17.41	-23 6.3	2.092	2.968	11.3	19.7
5 1	16 11.46	-35 1.9	2.919	3.827	7.5	22.6	5 1	16 11.40	-23 0.0	2.014	2.961	8.1	19.4
5 11	16 3.40	-34 35.3	2.875	3.838	5.2	22.4	5 11	16 3.60	-22 47.0	1.960	2.953	4.4	19.2
5 21	15 54.69	-33 56.6	2.859	3.849	3.6	22.3	5 21	15 54.75	-22 28.1	1.934	2.945	0.8	18.9
5 31	15 46.09	-33 7.5	2.872	3.859	3.9	22.4	5 31	15 45.78	-22 5.1	1.935	2.938	3.7	19.1
6 10	15 38.32	-32 11.2	2.914	3.869	5.9	22.5	6 10	15 37.65	-21 41.1	1.964	2.930	7.5	19.3
6 20	15 31.92	-31 11.8	2.983	3.879	8.1	22.7	6 20	15 31.14	-21 19.2	2.018	2.921	11.0	19.5
6 30	15 27.29	-30 13.2	3.077	3.887	10.2	22.8	6 30	15 26.80	-21 2.6	2.093	2.913	14.0	19.7
178580	1999 <i>XK</i> ₅₉		5 21.6 274°93	0°1/21.6	17		94540	2001 <i>UF</i> ₁₇₁		5 21.6 78°92	0°4/21.8	18	
4 21	16 19.68	-21 50.7	1.613	2.498	13.6	20.3	4 21	16 20.27	-23 38.8	1.320	2.212	15.6	19.4
5 1	16 13.55	-21 30.1	1.524	2.477	9.7	20.0	5 1	16 13.94	-23 2.9	1.264	2.218	11.1	19.1
5 11	16 4.97	-21 1.0	1.459	2.454	5.2	19.7	5 11	16 5.07	-22 15.5	1.230	2.225	5.9	18.9
5 21	15 54.80	-20 24.7	1.420	2.432	0.3	19.3	5 21	15 54.83	-21 19.3	1.220	2.232	0.6	18.5
5 31	15 44.27	-19 44.5	1.407	2.409	4.8	19.6	5 31	15 44.70	-20 19.6	1.236	2.239	5.1	18.8
6 10	15 34.73	-19 5.0	1.419	2.386	9.7	19.8	6 10	15 36.10	-19 23.2	1.276	2.246	10.2	19.1
6 20	15 27.24	-18 31.4	1.455	2.362	14.2	20.0	6 20	15 30.01	-18 35.9	1.338	2.253	14.6	19.4
6 30	15 22.56	-18 7.7	1.511	2.339	18.1	20.2	6 30	15 26.97	-18 1.9	1.420	2.260	18.4	19.7
360503	2003 <i>GE</i> ₄₉		5 21.6 346°30	4°9/20.2	17		326170	2012 <i>BV</i> ₁₁₁					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
295437	2008 <i>LF</i> ₆		5 21.6 243°83	1°2/20.3	18		24631	1981 <i>EB</i> ₂₁		5 21.6 127°37	0°8/22.1	18	
4 21	16 8.11	-15 7.2	4.516	5.392	5.7	21.0	4 21	16 16.54	-23 58.0	2.552	3.421	9.8	20.0
5 1	16 4.14	-14 44.2	4.440	5.388	4.0	20.9	5 1	16 10.42	-23 45.1	2.489	3.432	7.0	19.9
5 11	15 59.51	-14 20.8	4.392	5.385	2.2	20.7	5 11	16 2.95	-23 25.8	2.451	3.443	3.8	19.7
5 21	15 54.52	-13 58.2	4.374	5.381	1.2	20.6	5 21	15 54.76	-23 1.3	2.442	3.453	0.9	19.5
5 31	15 49.51	-13 37.5	4.385	5.377	2.5	20.7	5 31	15 46.62	-22 33.3	2.462	3.463	3.1	19.7
6 10	15 44.84	-13 20.1	4.425	5.373	4.3	20.9	6 10	15 39.28	-22 4.5	2.510	3.473	6.2	19.9
6 20	15 40.81	-13 6.7	4.492	5.369	6.0	21.0	6 20	15 33.30	-21 37.8	2.584	3.483	9.1	20.1
6 30	15 37.66	-12 58.2	4.582	5.365	7.5	21.1	6 30	15 29.09	-21 15.5	2.681	3.492	11.5	20.3
236822	2007 <i>RW</i> ₃₈		5 21.6 203°16	0°5/21.2	18		87502	2000 <i>QC</i> ₁₇₃		5 21.6 243°62	1°5/22.6	18	
4 21	16 11.30	-18 57.2	4.038	4.909	6.5	21.9	4 21	16 16.35	-26 37.2	2.283	3.150	10.8	19.7
5 1	16 6.43	-18 40.5	3.958	4.904	4.5	21.7	5 1	16 10.54	-26 16.3	2.204	3.145	7.9	19.5
5 11	16 0.73	-18 21.7	3.905	4.899	2.4	21.6	5 11	16 3.11	-25 45.9	2.150	3.139	4.5	19.2
5 21	15 54.59	-18 1.8	3.882	4.893	0.5	21.4	5 21	15 54.77	-25 7.0	2.123	3.133	1.6	19.0
5 31	15 48.42	-17 42.0	3.888	4.887	2.3	21.6	5 31	15 46.39	-24 21.9	2.125	3.126	3.5	19.1
6 10	15 42.65	-17 23.7	3.925	4.881	4.5	21.7	6 10	15 38.83	-23 34.4	2.154	3.120	6.9	19.4
6 20	15 37.64	-17 8.2	3.988	4.874	6.5	21.8	6 20	15 32.78	-22 48.5	2.209	3.114	10.1	19.5
6 30	15 33.70	-16 56.7	4.077	4.867	8.2	22.0	6 30	15 28.74	-22 7.9	2.287	3.107	12.9	19.7
478038	2011 <i>SA</i> ₂₅₇		5 21.6 111°14	4°7/24.1	16		499640	2010 <i>VL</i> ₂₆		5 21.6 247°18	0°4/21.4	17	
4 21	16 19.24	-34 43.4	2.293	3.132	11.8	21.8	4 21	16 20.79	-19 51.9	1.805	2.686	12.6	22.6
5 1	16 12.68	-35 8.5	2.223	3.137	9.2	21.6	5 1	16 14.10	-19 42.4	1.720	2.670	9.0	22.3
5 11	16 4.26	-35 20.3	2.178	3.142	6.6	21.5	5 11	16 5.20	-19 27.9	1.659	2.654	4.8	22.0
5 21	15 54.79	-35 17.2	2.159	3.147	4.8	21.4	5 21	15 54.91	-19 9.5	1.625	2.637	0.5	21.7
5 31	15 45.27	-34 59.7	2.167	3.152	5.3	21.4	5 31	15 44.35	-18 49.5	1.618	2.619	4.5	21.9
6 10	15 36.69	-34 30.8	2.202	3.157	7.5	21.6	6 10	15 34.70	-18 31.0	1.639	2.601	8.9	22.2
6 20	15 29.84	-33 54.8	2.263	3.161	10.2	21.7	6 20	15 26.92	-18 17.5	1.683	2.583	13.0	22.4
6 30	15 25.27	-33 16.7	2.345	3.166	12.6	21.9	6 30	15 21.70	-18 11.8	1.748	2.564	16.5	22.5
182862	2002 <i>CY</i> ₁₆₇		5 21.6 80°10	1°2/22.2	18		2623	Zech		5 21.6 252°61	2°6/22.6	18	
4 21	16 16.90	-24 20.2	2.260	3.131	10.8	20.2	4 21	16 22.96	-27 13.7	1.704	2.573	13.8	17.3
5 1	16 10.84	-24 24.8	2.197	3.141	7.7	20.0	5 1	16 15.94	-27 19.9	1.613	2.554	10.2	17.0
5 11	16 3.22	-24 22.8	2.159	3.150	4.3	19.8	5 11	16 6.31	-27 14.5	1.546	2.534	6.2	16.7
5 21	15 54.73	-24 14.4	2.149	3.159	1.3	19.6	5 21	15 54.98	-26 56.4	1.505	2.513	2.7	16.5
5 31	15 46.26	-24 1.2	2.167	3.168	3.4	19.8	5 31	15 43.25	-26 26.7	1.491	2.492	4.9	16.6
6 10	15 38.65	-23 45.6	2.212	3.177	6.8	20.0	6 10	15 32.53	-25 49.4	1.503	2.469	9.3	16.8
6 20	15 32.58	-23 30.3	2.283	3.187	9.9	20.3	6 20	15 23.96	-25 10.2	1.539	2.447	13.6	17.0
6 30	15 28.49	-23 18.2	2.376	3.196	12.5	20.4	6 30	15 18.33	-24 35.0	1.596	2.423	17.3	17.1
465073	2006 <i>ST</i> ₃₄₆		5 21.6 312°55	0°5/21.4	17		375192	2008 <i>EF</i> ₁₄		5 21.6 18°24	5°6/19.6	17	
4 21	16 16.39	-21 35.1	1.256	2.158	15.5	21.1	4 21	16 16.98	- 9 17.9	1.280	2.182	15.2	20.5
5 1	16 11.74	-20 59.8	1.171	2.131	11.1	20.8	5 1	16 11.59	- 8 39.6	1.230	2.185	11.2	20.2
5 11	16 4.23	-20 13.1	1.108	2.105	6.0	20.4	5 11	16 3.85	- 8 7.6	1.201	2.190	7.3	20.0
5 21	15 54.81	-19 17.5	1.067	2.079	0.6	19.9	5 21	15 54.83	- 7 47.0	1.195	2.194	5.7	19.9
5 31	15 44.91	-18 18.2	1.051	2.054	5.7	20.2	5 31	15 45.84	- 7 41.7	1.214	2.200	8.2	20.1
6 10	15 36.14	-17 22.3	1.057	2.029	11.5	20.5	6 10	15 38.18	- 7 53.7	1.255	2.206	12.2	20.3
6 20	15 29.80	-16 36.8	1.084	2.005	16.8	20.7	6 20	15 32.79	- 8 22.7	1.317	2.213	16.1	20.6
6 30	15 26.76	-16 6.6	1.129	1.982	21.3	20.9	6 30	15 30.22	- 9 6.7	1.396	2.220	19.5	20.8
366554	2002 <i>RG</i> ₃₄		5 21.6 251°38	0°5/21.4	18		384874	2012 <i>SW</i> ₄₂		5 21.6 356°86	0°9/22.0	17	
4 21	16 20.21	-19 53.6	1.804	2.686	12.6	21.3	4 21	16 16.86	-24 3.5	1.663	2.549	13.3	20.6
5 1	16 13.68	-19 40.6	1.719	2.670	8.9	21.0	5 1	16 11.31	-23 42.3	1.596	2.547	9.5	20.4
5 11	16 4.96	-19 22.3	1.658	2.653	4.8	20.7	5 11	16 3.66	-23 11.5	1.553	2.546	5.2	20.1
5 21	15 54.87	-19 0.0	1.624	2.636	0.5	20.4	5 21	15 54.84	-22 32.8	1.534	2.546	1.0	19.8
5 31	15 44.51	-18 36.2	1.617	2.618	4.5	20.6	5 31	15 45.98	-21 49.5	1.542	2.545	4.3	20.1
6 10	15 35.07	-18 14.4	1.637	2.600	9.0	20.8	6 10	15 38.24	-21 6.3	1.576	2.545	8.6	20.3
6 20	15 27.48	-17 57.9	1.681	2.581	13.0	21.0	6 20	15 32.48	-20 28.0	1.633	2.546	12.6	20.5
6 30	15 22.43	-17 49.8	1.745	2.562	16.5	21.2	6 30	15 29.26	-19 58.3	1.711	2.546	15.9	20.8
61326	2000 <i>OP</i> ₅₇		5 21.6 332°90	1°3/21.2	18		263229	2008 <i>AP</i> ₆₂		5 21.6 82°73	1°2/22.4	17	
4 21	16 18.54	-18 18.8	1.192	2.096	16.0	19.1	4 21	16 16.57	-25 28.6	2.163	3.035	11.2	20.6
5 1	16 13.11	-18 7.0	1.128	2.089	11.3	18.8	5 1	16 10.66	-25 10.0	2.100	3.044	8.0	20.4
5 11	16 4.86	-17 51.1	1.085	2.082	6.0	18.4	5 11	16 3.15	-24 43.0	2.063	3.054	4.5	20.2
5 21	15 54.87	-17 33.2	1.065	2.076	1.3	18.1	5 21	15 54.81	-24 8.6	2.053	3.064	1.3	20.0
5 31	15 44.68	-17 16.8	1.069	2.071	5.9	18.4	5 31	15 46.53	-23 29.4	2.071	3.073	3.5	20.2
6 10	15 35.89	-17 6.1	1.095	2.066	11.4	18.7	6 10	15 39.19	-22 49.1	2.116	3.083	7.0	20.4
6 20	15 29.66	-17 4.7	1.143	2.062	16.2	18.9	6 20	15 33.45	-22 11.4	2.187	3.092	10.2	20.6
6 30	15 26.74	-17 14.8	1.207	2.058	20.3	19.2	6 30	15 29.75	-21 39.4	2.280	3.102	12.9	20.8
339369	2005 <i>AD</i> ₅₁		5 21.6 62°35	2°5/24.0	18		409263	2004 <i>PN</i> ₈₇		5 21.6 278°07	3°1/22.6	17	
4 21	16 10.88	-33 13.2	4.252	5.086	6.9	20.5	4 21	16 23.35	-26 56.0	1.490	2.366	15.1	21.4
5 1	16 6.19	-33 18.7	4.178	5.091	5.3	20.4	5 1	16 16.69	-27 16.5	1.395	2.338	11.2	21.1
5 11	16 0.64	-33 17.0	4.129	5.095	3.7	20.3	5 11	16 6.96	-27 26.2	1.322	2.310	6.8	20.7
5 21	15 54.62	-33 8.3	4.109	5.100	2.6	20.2	5 21	15 55.07	-27 22.4	1.273	2.281	3.2	20.4
5 31	15 48.59	-32 53.0	4.118	5.105	2.9	20.2	5 31	15 42.47	-27 5.2	1.251	2.251	5.6	20.5
6 10	15 43.01	-32 32.6	4.155	5.110	4.3	20.3	6 10	15 30.84	-26 38.1	1.253	2.221	10.5	20.7
6 20	15 38.24	-32 9.0	4.219	5.115	5.9	20.4	6 20	15 21.60	-26 7.1	1.278	2.191	15.4	20.9
6 30	15 34.59	-31 44.1	4.308	5.120	7.5	20.6	6 30	15 15.74	-25 39.0	1.322	2.160	19.6	21.1
366280	2013 <i>AS</i> ₉₉		5 21.6 148°11	0°5/21.3	18		479260	2013 <i>ER</i> ₁₀₂		5 21.6 2			

EPHEMERIDES

5 21.6

5 21.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
93963	2000 XE		5 21.6 190°29	5°1/18.9	18		37398	2001 XY ₄₉		5 21.6 326°84	0°7/21.3	18	
4 21	16 18.02	- 5 20.7	2.269	3.140	10.8	20.5	4 21	16 16.95	-18 19.1	2.115	2.997	11.0	18.9
5 1	16 11.57	- 4 47.4	2.203	3.139	8.1	20.4	5 1	16 11.03	-18 19.3	2.045	2.996	7.7	18.7
5 11	16 3.64	- 4 20.5	2.163	3.137	5.9	20.2	5 11	16 3.44	-18 17.1	2.000	2.995	4.1	18.5
5 21	15 54.87	- 4 3.1	2.150	3.135	5.1	20.2	5 21	15 54.89	-18 13.6	1.982	2.994	0.7	18.2
5 31	15 46.08	- 3 57.7	2.165	3.132	6.7	20.3	5 31	15 46.27	-18 10.2	1.993	2.993	3.9	18.4
6 10	15 38.06	- 4 5.5	2.207	3.129	9.3	20.4	6 10	15 38.47	-18 9.0	2.030	2.992	7.5	18.7
6 20	15 31.45	- 4 26.4	2.273	3.125	11.9	20.6	6 20	15 32.21	-18 11.7	2.092	2.991	10.9	18.9
6 30	15 26.71	- 4 59.5	2.359	3.120	14.3	20.7	6 30	15 28.00	-18 20.1	2.176	2.991	13.7	19.1
306998	2001 WY ₅₈		5 21.6 221°01	0°8/21.9	18		319790	2006 UL ₃₃₆		5 21.6 320°34	1°8/21.0	17	
4 21	16 19.72	-23 21.9	2.010	2.884	11.8	21.3	4 21	16 17.31	-17 6.8	1.265	2.169	15.3	20.1
5 1	16 13.13	-23 12.0	1.931	2.877	8.5	21.1	5 1	16 12.30	-16 57.5	1.190	2.151	10.9	19.8
5 11	16 4.60	-22 54.7	1.876	2.868	4.6	20.9	5 11	16 4.54	-16 45.8	1.136	2.133	5.9	19.5
5 21	15 54.93	-22 30.5	1.848	2.860	0.9	20.6	5 21	15 54.97	-16 33.9	1.105	2.117	1.8	19.2
5 31	15 45.13	-22 1.6	1.849	2.851	3.9	20.8	5 31	15 45.02	-16 24.9	1.099	2.100	6.0	19.4
6 10	15 36.24	-21 31.5	1.877	2.841	7.9	21.0	6 10	15 36.23	-16 22.5	1.115	2.085	11.3	19.6
6 20	15 29.08	-21 4.0	1.929	2.831	11.5	21.2	6 20	15 29.81	-16 29.5	1.153	2.070	16.2	19.9
6 30	15 24.24	-20 42.3	2.004	2.821	14.6	21.4	6 30	15 26.59	-16 47.9	1.207	2.057	20.4	20.1
423586	2005 VO ₉₉		5 21.6 186°22	3°6/23.9	17		321230	2009 AM ₄₇		5 21.6 183°58	0°7/21.9	17	
4 21	16 20.69	-32 57.6	1.971	2.822	13.0	20.9	4 21	16 17.50	-23 15.1	2.170	3.045	11.1	21.8
5 1	16 13.83	-32 32.4	1.896	2.822	9.9	20.7	5 1	16 11.40	-23 5.5	2.099	3.045	7.9	21.6
5 11	16 4.94	-31 50.6	1.845	2.821	6.5	20.5	5 11	16 3.62	-22 49.2	2.052	3.045	4.3	21.4
5 21	15 54.95	-30 52.5	1.820	2.821	3.8	20.3	5 21	15 54.91	-22 27.1	2.033	3.045	0.8	21.1
5 31	15 45.01	-29 41.1	1.823	2.820	4.7	20.4	5 31	15 46.15	-22 1.2	2.042	3.044	3.5	21.3
6 10	15 36.23	-28 22.2	1.853	2.818	7.9	20.5	6 10	15 38.26	-21 34.6	2.079	3.043	7.2	21.5
6 20	15 29.44	-27 2.5	1.909	2.816	11.3	20.8	6 20	15 31.94	-21 10.5	2.140	3.043	10.5	21.7
6 30	15 25.15	-25 48.3	1.987	2.814	14.4	20.9	6 30	15 27.69	-20 51.7	2.224	3.042	13.3	21.9
420339	2012 BG ₂₆		5 21.6 89°10	1°3/21.1	17		179837	2002 TE ₂₁₅		5 21.6 276°56	0°5/21.5	17	
4 21	16 20.66	-18 34.4	1.479	2.370	14.3	21.4	4 21	16 20.79	-18 53.7	1.613	2.500	13.5	20.6
5 1	16 13.95	-18 10.4	1.429	2.384	10.0	21.2	5 1	16 14.40	-18 59.9	1.528	2.481	9.7	20.3
5 11	16 5.02	-17 42.1	1.402	2.398	5.3	21.0	5 11	16 5.53	-19 3.0	1.466	2.462	5.2	20.0
5 21	15 54.96	-17 12.3	1.400	2.411	1.3	20.7	5 21	15 55.04	-19 3.5	1.430	2.442	0.6	19.6
5 31	15 45.04	-16 44.3	1.425	2.425	5.1	21.0	5 31	15 44.14	-19 3.0	1.421	2.422	4.8	19.9
6 10	15 36.50	-16 22.3	1.474	2.438	9.6	21.3	6 10	15 34.18	-19 3.9	1.437	2.402	9.7	20.1
6 20	15 30.20	-16 9.2	1.547	2.451	13.7	21.6	6 20	15 26.26	-19 9.1	1.476	2.382	14.1	20.3
6 30	15 26.63	-16 6.8	1.639	2.464	17.0	21.8	6 30	15 21.15	-19 21.1	1.536	2.362	17.9	20.5
34656	2000 WL ₁₅₂		5 21.6 302°89	5°0/24.4	18		309649	2008 DJ ₉		5 21.6 294°42	3°8/23.8	18	
4 21	16 18.85	-34 41.0	1.607	2.466	15.1	17.8	4 21	16 17.44	-32 21.1	2.134	2.988	12.1	20.7
5 1	16 13.15	-34 26.7	1.521	2.448	11.7	17.6	5 1	16 11.59	-32 25.2	2.053	2.979	9.2	20.4
5 11	16 4.85	-33 51.5	1.456	2.431	8.1	17.3	5 11	16 3.82	-32 16.1	1.996	2.971	6.2	20.2
5 21	15 54.96	-32 54.1	1.416	2.413	5.3	17.1	5 21	15 54.93	-31 52.9	1.964	2.962	4.0	20.1
5 31	15 44.86	-31 36.8	1.401	2.396	6.0	17.1	5 31	15 45.92	-31 17.1	1.960	2.954	4.8	20.1
6 10	15 36.00	-30 6.5	1.411	2.380	9.5	17.3	6 10	15 37.82	-30 32.2	1.982	2.946	7.6	20.3
6 20	15 29.46	-28 32.0	1.445	2.363	13.5	17.4	6 20	15 31.44	-29 43.1	2.030	2.937	10.7	20.5
6 30	15 25.96	-27 2.2	1.500	2.347	17.2	17.6	6 30	15 27.36	-28 54.9	2.099	2.929	13.6	20.6
298297	2003 BF ₃₂		5 21.6 250°33	5°4/18.5	16		180764	2004 PO ₁₆		5 21.6 312°96	11°4/12.0	17	
4 21	16 15.24	- 4 53.3	2.259	3.134	10.6	20.6	4 21	16 13.03	+11 4.3	2.058	2.892	13.2	19.7
5 1	16 9.69	- 4 12.6	2.189	3.126	8.1	20.4	5 1	16 8.31	+12 41.0	2.000	2.875	12.0	19.6
5 11	16 2.67	- 3 38.3	2.145	3.118	6.0	20.3	5 11	16 2.02	+13 59.9	1.966	2.858	11.4	19.6
5 21	15 54.83	- 3 13.9	2.127	3.110	5.4	20.2	5 21	15 54.82	+14 54.6	1.953	2.842	11.8	19.5
5 31	15 46.92	- 3 2.3	2.137	3.101	7.0	20.3	5 31	15 47.52	+15 20.8	1.963	2.826	13.0	19.6
6 10	15 39.72	- 3 4.9	2.172	3.092	9.5	20.5	6 10	15 40.96	+15 17.3	1.994	2.810	14.7	19.7
6 20	15 33.85	- 3 21.9	2.231	3.083	12.1	20.6	6 20	15 35.81	+14 45.8	2.042	2.794	16.5	19.8
6 30	15 29.79	- 3 52.3	2.311	3.075	14.5	20.8	6 30	15 32.56	+13 50.1	2.106	2.779	18.1	19.9
328470	2009 CU ₂		5 21.6 206°87	19°9/11.3	18		288523	2004 FR ₁₄₇		5 21.6 73°32	2°9/23.4	18	
4 21	16 23.31	+20 56.1	1.274	2.078	21.4	20.7	4 21	16 18.80	-30 28.6	2.014	2.874	12.4	20.3
5 1	16 16.16	+22 55.3	1.241	2.075	20.3	20.6	5 1	16 12.29	-30 13.3	1.961	2.894	9.2	20.1
5 11	16 6.34	+24 15.7	1.224	2.071	19.9	20.5	5 11	16 4.03	-29 45.0	1.933	2.915	5.7	19.9
5 21	15 55.05	+24 47.3	1.223	2.067	20.2	20.5	5 21	15 54.94	-29 4.5	1.931	2.935	3.1	19.8
5 31	15 43.81	+24 25.2	1.240	2.062	21.4	20.6	5 31	15 46.03	-28 14.7	1.957	2.956	4.2	19.9
6 10	15 34.11	+23 12.5	1.271	2.057	22.9	20.7	6 10	15 38.27	-27 20.3	2.010	2.976	7.3	20.1
6 20	15 26.99	+21 17.2	1.316	2.051	24.7	20.8	6 20	15 32.37	-26 26.3	2.088	2.996	10.5	20.3
6 30	15 23.04	+18 49.5	1.373	2.044	26.4	20.9	6 30	15 28.74	-25 37.1	2.188	3.016	13.2	20.6
191741	2004 SC ₁₂		5 21.6 233°34	4°4/19.6	18		338740	2003 UZ ₁₄₈		5 21.6 241°67	2°0/20.5	18	
4 21	16 18.85	- 7 59.3	2.113	2.990	11.2	20.6	4 21	16 17.45	-15 8.3	2.293	3.172	10.4	21.9
5 1	16 12.36	- 7 39.3	2.036	2.979	8.3	20.4	5 1	16 11.33	-14 43.9	2.209	3.158	7.3	21.7
5 11	16 4.15	- 7 24.4	1.985	2.967	5.5	20.2	5 11	16 3.61	-14 18.3	2.150	3.143	4.1	21.4
5 21	15 54.93	- 7 17.1	1.960	2.955	4.4	20.1	5 21	15 54.93	-13 53.6	2.119	3.127	2.0	21.2
5 31	15 45.56	- 7 19.9	1.963	2.943	6.3	20.2	5 31	15 46.09	-13 32.3	2.117	3.111	4.5	21.4
6 10	15 36.95	- 7 34.1	1.994	2.930	9.3	20.4	6 10	15 37.95	-13 16.9	2.142	3.094	7.9	21.6
6 20	15 29.84	- 7 59.9	2.048	2.916	12.4	20.5	6 20	15 31.20	-13 9.2	2.193	3.077	11.1	21.7
6 30	15 24.78	- 8 36.8	2.123	2.903	15.1	20.7	6 30	15 26.37	-13 10.7	2.265	3.059	13.8	21.9
396120	2013 CU ₁₇₈		5 21.6 242°45	4°0/19.3	18		415177	2012 FZ ₇₂		5 21.6 113°33	1°8/20.9	18	
4 21													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
507711	2013 <i>TR</i> ₁₃₉		5 21.6 260°02	0°6/21.3	17		111399	2001 <i>XK</i> ₁₇₃		5 21.6 133°67	3°7/19.8	18	
4 21	16 19.47	-19 59.2	1.812	2.694	12.5	22.5	4 21	16 16.05	-9 18.0	2.240	3.121	10.5	19.7
5 1	16 13.19	-19 37.8	1.725	2.676	8.9	22.2	5 1	16 10.25	-9 0.9	2.176	3.122	7.7	19.5
5 11	16 4.77	-19 10.6	1.663	2.658	4.7	21.9	5 11	16 2.99	-8 48.0	2.137	3.123	4.9	19.3
5 21	15 55.00	-18 39.1	1.627	2.639	0.7	21.6	5 21	15 54.91	-8 41.5	2.125	3.123	3.7	19.3
5 31	15 44.97	-18 6.3	1.619	2.620	4.5	21.8	5 31	15 46.81	-8 43.2	2.141	3.124	5.5	19.4
6 10	15 35.84	-17 36.1	1.637	2.600	9.0	22.0	6 10	15 39.47	-8 54.5	2.184	3.125	8.4	19.5
6 20	15 28.52	-17 12.3	1.679	2.580	13.0	22.2	6 20	15 33.52	-9 15.4	2.251	3.126	11.2	19.7
6 30	15 23.70	-16 57.8	1.742	2.559	16.5	22.4	6 30	15 29.41	-9 45.8	2.340	3.127	13.7	19.9
193632	2001 <i>CU</i> ₃₇		5 21.6 198°55	15°7/18.2	18		239710	2009 <i>AM</i> ₂₅		5 21.6 146°70	1°5/20.9	17	
4 21	16 28.29	+14 2.8	1.307	2.133	19.7	19.5	4 21	16 16.87	-17 5.4	2.039	2.923	11.2	20.9
5 1	16 19.64	+14 48.5	1.257	2.131	17.6	19.4	5 1	16 10.98	-16 45.2	1.972	2.924	7.9	20.7
5 11	16 8.20	+15 1.0	1.225	2.129	16.1	19.3	5 11	16 3.42	-16 22.8	1.931	2.926	4.2	20.4
5 21	15 55.20	+14 32.5	1.214	2.125	15.7	19.2	5 21	15 54.94	-16 0.2	1.917	2.927	1.5	20.2
5 31	15 42.21	+13 20.0	1.224	2.121	16.8	19.3	5 31	15 46.44	-15 39.9	1.931	2.929	4.3	20.4
6 10	15 30.78	+11 27.6	1.255	2.116	19.0	19.4	6 10	15 38.82	-15 24.6	1.971	2.930	8.0	20.7
6 20	15 22.00	+9 4.2	1.305	2.111	21.5	19.5	6 20	15 32.78	-15 16.3	2.036	2.931	11.3	20.9
6 30	15 16.51	+6 20.0	1.371	2.104	23.9	19.7	6 30	15 28.81	-15 16.6	2.122	2.932	14.1	21.1
438974	2010 <i>NT</i> ₄₃		5 21.6 297°77	4°5/18.5	18		470267	2007 <i>BJ</i> ₃₈		5 21.6 216°62	7°5/27.8	18	
4 21	16 14.10	-10 0.8	2.120	3.006	10.8	20.9	4 21	16 23.73	-50 31.0	3.126	3.860	11.3	22.2
5 1	16 9.09	-8 54.7	2.034	2.982	7.9	20.7	5 1	16 15.84	-50 51.0	3.036	3.851	9.9	22.1
5 11	16 2.47	-7 49.2	1.973	2.957	5.3	20.5	5 11	16 6.02	-50 52.5	2.967	3.841	8.6	22.0
5 21	15 54.86	-6 48.7	1.939	2.933	4.6	20.4	5 21	15 55.10	-50 33.1	2.923	3.831	7.7	21.9
5 31	15 47.09	-5 57.9	1.932	2.909	6.6	20.4	5 31	15 44.13	-49 52.4	2.905	3.820	7.5	21.9
6 10	15 39.99	-5 20.5	1.952	2.884	9.7	20.6	6 10	15 34.16	-48 53.0	2.913	3.809	8.2	21.9
6 20	15 34.26	-4 58.6	1.995	2.860	12.8	20.7	6 20	15 26.00	-47 39.5	2.946	3.797	9.5	22.0
6 30	15 30.45	-4 52.8	2.057	2.836	15.6	20.9	6 30	15 20.19	-46 17.9	3.003	3.785	11.1	22.1
102537	1999 <i>UY</i> ₇		5 21.6 185°96	0°9/21.9	18		259079	2002 <i>VQ</i> ₂₅		5 21.6 218°31	1°0/22.1	17	
4 21	16 22.11	-22 37.2	1.790	2.666	12.9	20.2	4 21	16 20.86	-23 56.7	2.008	2.879	12.0	21.9
5 1	16 14.98	-22 47.4	1.720	2.666	9.2	19.9	5 1	16 13.99	-23 50.8	1.927	2.871	8.6	21.7
5 11	16 5.66	-22 51.0	1.673	2.666	5.1	19.7	5 11	16 5.12	-23 37.1	1.871	2.862	4.8	21.5
5 21	15 55.06	-22 48.1	1.654	2.665	1.0	19.4	5 21	15 55.05	-23 15.8	1.841	2.852	1.1	21.2
5 31	15 44.33	-22 39.9	1.662	2.664	4.2	19.6	5 31	15 44.83	-22 49.0	1.840	2.842	3.9	21.4
6 10	15 34.68	-22 29.2	1.697	2.662	8.5	19.9	6 10	15 35.52	-22 19.9	1.867	2.831	7.9	21.6
6 20	15 27.03	-22 19.5	1.756	2.660	12.3	20.1	6 20	15 27.98	-21 52.5	1.919	2.820	11.6	21.8
6 30	15 21.99	-22 14.2	1.836	2.657	15.6	20.3	6 30	15 22.82	-21 30.4	1.992	2.808	14.7	22.0
87260	2000 <i>ON</i> ₅₄		5 21.6 286°81	3°3/20.2	18		341350	2007 <i>TK</i> ₅₃		5 21.6 231°59	0°8/21.2	17	
4 21	16 17.54	-13 31.7	1.648	2.540	13.0	19.7	4 21	16 16.77	-19 15.7	2.148	3.029	10.9	21.5
5 1	16 11.84	-12 59.1	1.575	2.529	9.3	19.4	5 1	16 10.92	-18 53.4	2.073	3.023	7.7	21.3
5 11	16 4.03	-12 26.5	1.525	2.517	5.4	19.2	5 11	16 3.41	-18 26.8	2.023	3.018	4.0	21.1
5 21	15 54.96	-11 57.5	1.500	2.506	3.3	19.0	5 21	15 54.95	-17 58.0	2.001	3.012	0.8	20.8
5 31	15 45.72	-11 35.8	1.502	2.495	6.1	19.1	5 31	15 46.43	-17 29.2	2.006	3.006	3.9	21.1
6 10	15 37.45	-11 24.5	1.529	2.483	10.2	19.4	6 10	15 38.71	-17 3.7	2.039	3.000	7.6	21.3
6 20	15 31.06	-11 25.6	1.578	2.472	14.1	19.6	6 20	15 32.52	-16 44.1	2.097	2.994	11.0	21.5
6 30	15 27.16	-11 39.9	1.647	2.461	17.4	19.8	6 30	15 28.35	-16 32.5	2.177	2.987	13.8	21.7
19023	Varela		5 21.6 93°63	1°5/20.9	18		265684	2005 <i>UF</i> ₈₈		5 21.6 87°33	0°2/21.6	17	
4 21	16 18.87	-17 36.2	1.812	2.697	12.3	18.7	4 21	16 19.77	-20 41.1	1.691	2.576	13.1	21.5
5 1	16 12.39	-17 9.8	1.760	2.713	8.6	18.5	5 1	16 13.20	-20 29.1	1.637	2.589	9.2	21.3
5 11	16 4.13	-16 40.7	1.733	2.728	4.6	18.3	5 11	16 4.64	-20 11.5	1.608	2.603	4.9	21.0
5 21	15 54.96	-16 11.3	1.733	2.743	1.5	18.1	5 21	15 55.03	-19 49.9	1.604	2.616	0.3	20.7
5 31	15 45.92	-15 44.6	1.760	2.758	4.6	18.3	5 31	15 45.53	-19 26.9	1.627	2.629	4.3	21.0
6 10	15 38.00	-15 23.7	1.813	2.773	8.5	18.6	6 10	15 37.22	-19 6.2	1.676	2.642	8.6	21.3
6 20	15 31.91	-15 11.0	1.891	2.788	12.0	18.8	6 20	15 30.92	-18 50.8	1.750	2.655	12.3	21.6
6 30	15 28.12	-15 7.9	1.989	2.802	14.9	19.1	6 30	15 27.12	-18 43.2	1.843	2.667	15.4	21.8
360327	2001 <i>TZ</i> ₁₁₄		5 21.6 223°47	3°8/23.7	18		281631	2008 <i>UL</i> ₃₀₃		5 21.6 244°69	0°8/22.1	17	
4 21	16 20.21	-33 15.6	2.786	3.620	10.1	21.7	4 21	16 17.76	-24 15.4	2.002	2.878	11.8	20.7
5 1	16 13.27	-33 44.1	2.696	3.609	7.8	21.5	5 1	16 11.77	-23 51.9	1.924	2.870	8.4	20.5
5 11	16 4.66	-34 2.3	2.632	3.598	5.5	21.3	5 11	16 3.93	-23 19.6	1.870	2.863	4.6	20.2
5 21	15 55.01	-34 8.7	2.596	3.586	3.9	21.2	5 21	15 55.01	-22 39.8	1.844	2.855	0.9	20.0
5 31	15 45.15	-34 3.2	2.589	3.574	4.5	21.2	5 31	15 46.01	-21 55.2	1.845	2.847	3.8	20.2
6 10	15 35.96	-33 47.7	2.610	3.562	6.6	21.3	6 10	15 37.93	-21 10.1	1.873	2.839	7.8	20.4
6 20	15 28.16	-33 25.3	2.657	3.549	9.1	21.5	6 20	15 31.55	-20 28.7	1.926	2.831	11.4	20.6
6 30	15 22.31	-32 59.8	2.728	3.535	11.4	21.6	6 30	15 27.41	-19 54.6	2.001	2.822	14.5	20.8
147886	2006 <i>RJ</i> ₁₉		5 21.6 252°12	0°1/21.7	18		356312	2010 <i>HY</i> ₅₄		5 21.6 242°36	4°7/24.8	18	
4 21	16 21.37	-20 30.0	1.712	2.593	13.1	20.3	4 21	16 18.82	-37 10.1	2.597	3.422	11.1	21.1
5 1	16 14.67	-20 37.2	1.630	2.580	9.4	20.0	5 1	16 12.39	-37 16.1	2.508	3.410	8.8	21.0
5 11	16 5.61	-20 39.9	1.572	2.567	5.0	19.8	5 11	16 4.23	-37 7.8	2.442	3.398	6.5	20.8
5 21	15 55.07	-20 38.2	1.541	2.553	0.4	19.4	5 21	15 55.04	-36 44.0	2.403	3.385	4.9	20.7
5 31	15 44.23	-20 33.4	1.536	2.538	4.5	19.6	5 31	15 45.74	-36 5.5	2.392	3.373	5.2	20.7
6 10	15 34.36	-20 28.3	1.558	2.524	9.1	19.9	6 10	15 37.25	-35 15.3	2.408	3.360	7.1	20.8
6 20	15 26.47	-20 25.9	1.604	2.509	13.3	20.1	6 20	15 30.31	-34 18.0	2.450	3.346	9.6	20.9
6 30	15 21.29	-20 29.2	1.670	2.494	16.8	20.3	6 30	15 25.47	-33 18.7	2.515	3.333	12.0	21.0
174428	2002 <i>XS</i>		5 21.6 243°66	1°7/20.8	18		20399	Michaelesser		5 21.7 338°43	0°4/2		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
389203	2009 <i>CB</i> ₆₃		5 21.7 60°83	2.5°/20.6	17		504980	2011 <i>HO</i> ₉		5 21.7 42°16	0.6°/21.4	17	
4 21	16 17.29	-12 55.4	2.077	2.960	11.1	20.3	4 21	16 20.03	-17 55.5	1.733	2.619	12.8	20.7
5 1	16 11.26	-12 50.7	2.011	2.961	7.9	20.1	5 1	16 13.52	-18 10.4	1.668	2.620	9.0	20.5
5 11	16 3.59	-12 48.0	1.971	2.963	4.5	19.9	5 11	16 4.92	-18 23.7	1.627	2.622	4.8	20.3
5 21	15 55.01	-12 48.7	1.958	2.965	2.5	19.8	5 21	15 55.11	-18 35.6	1.612	2.624	0.7	20.0
5 31	15 46.37	-12 54.6	1.973	2.966	4.8	19.9	5 31	15 45.19	-18 47.2	1.625	2.626	4.4	20.2
6 10	15 38.58	-13 6.9	2.015	2.968	8.2	20.2	6 10	15 36.32	-19 0.2	1.663	2.628	8.7	20.5
6 20	15 32.32	-13 26.5	2.081	2.970	11.4	20.4	6 20	15 29.37	-19 16.3	1.726	2.630	12.5	20.7
6 30	15 28.08	-13 53.6	2.169	2.972	14.1	20.5	6 30	15 24.94	-19 37.2	1.809	2.632	15.7	20.9
371702	2007 <i>EP</i> ₁₅		5 21.7 235°22	4.8°/23.5	18		129527	1996 <i>AJ</i> ₁₄		5 21.7 226°21	0.2°/21.6	18	
4 21	16 23.32	-32 42.1	2.051	2.897	12.8	20.6	4 21	16 18.33	-21 9.0	2.282	3.156	10.6	21.3
5 1	16 16.00	-33 22.6	1.966	2.886	9.9	20.4	5 1	16 12.01	-20 48.6	2.198	3.145	7.5	21.0
5 11	16 6.35	-33 50.8	1.904	2.874	6.9	20.2	5 11	16 4.02	-20 22.6	2.140	3.134	4.0	20.8
5 21	15 55.19	-34 3.9	1.869	2.862	4.9	20.1	5 21	15 55.06	-19 52.4	2.110	3.123	0.3	20.5
5 31	15 43.69	-34 1.0	1.862	2.850	5.7	20.1	5 31	15 45.97	-19 20.3	2.109	3.110	3.6	20.7
6 10	15 33.11	-33 44.6	1.881	2.837	8.5	20.2	6 10	15 37.65	-18 49.3	2.136	3.098	7.3	20.9
6 20	15 24.46	-33 19.2	1.925	2.823	11.7	20.4	6 20	15 30.81	-18 22.5	2.189	3.084	10.6	21.1
6 30	15 18.48	-32 50.4	1.991	2.809	14.7	20.6	6 30	15 25.97	-18 2.6	2.264	3.071	13.5	21.3
114932	2003 <i>QM</i> ₄₅		5 21.7 151°63	1.3°/21.1	18		16815	1997 <i>UA</i> ₉		5 21.7 51°74	0.3°/21.7	18	
4 21	16 21.05	-18 31.7	1.736	2.619	12.9	20.4	4 21	16 21.39	-19 52.7	1.635	2.519	13.5	16.6
5 1	16 14.10	-18 3.3	1.675	2.627	9.1	20.2	5 1	16 14.63	-20 18.4	1.570	2.521	9.6	16.3
5 11	16 5.15	-17 30.6	1.639	2.634	4.8	20.0	5 11	16 5.57	-20 41.0	1.528	2.523	5.1	16.1
5 21	15 55.11	-16 56.0	1.629	2.640	1.3	19.7	5 21	15 55.15	-20 59.8	1.513	2.525	0.5	15.7
5 31	15 45.11	-16 22.9	1.646	2.645	4.7	20.0	5 31	15 44.60	-21 15.4	1.524	2.527	4.4	16.0
6 10	15 36.27	-15 55.2	1.690	2.650	8.9	20.3	6 10	15 35.18	-21 29.4	1.562	2.529	8.9	16.3
6 20	15 29.40	-15 35.8	1.758	2.655	12.7	20.5	6 20	15 27.84	-21 44.3	1.623	2.531	12.9	16.5
6 30	15 25.03	-15 26.9	1.847	2.659	15.9	20.7	6 30	15 23.23	-22 2.3	1.705	2.533	16.3	16.8
517619	2014 <i>XP</i> ₁₂		5 21.7 170°59	0.8°/20.9	18		16080	1999 <i>RX</i> ₁₈₄		5 21.7 283°59	0.5°/21.8	18	
4 21	16 9.57	-15 52.6	4.692	5.564	5.6	21.6	4 21	16 18.96	-21 30.7	1.785	2.668	12.6	18.0
5 1	16 5.22	-15 50.2	4.619	5.565	3.9	21.5	5 1	16 12.88	-21 36.6	1.706	2.656	9.0	17.8
5 11	16 0.20	-15 47.5	4.573	5.566	2.1	21.4	5 11	16 4.66	-21 37.3	1.651	2.645	4.9	17.5
5 21	15 54.81	-15 45.2	4.558	5.567	0.8	21.3	5 21	15 55.10	-21 32.8	1.621	2.633	0.6	17.2
5 31	15 49.39	-15 44.0	4.572	5.568	2.1	21.4	5 31	15 45.31	-21 24.8	1.619	2.622	4.2	17.4
6 10	15 44.31	-15 44.8	4.616	5.569	4.0	21.5	6 10	15 36.45	-21 15.9	1.643	2.610	8.6	17.6
6 20	15 39.85	-15 48.2	4.687	5.569	5.6	21.6	6 20	15 29.45	-21 9.2	1.691	2.599	12.5	17.9
6 30	15 36.26	-15 54.8	4.782	5.570	7.1	21.8	6 30	15 24.97	-21 7.7	1.760	2.588	15.9	18.1
337611	2001 <i>TK</i> ₂₄		5 21.7 320°14	12.2°/13.1	18		157470	2005 <i>AG</i> ₆₁		5 21.7 51°98	0.6°/22.2	18	
4 21	16 17.39	- 5 13.5	1.006	1.914	17.8	19.8	4 21	16 9.79	-23 44.1	4.302	5.167	6.2	20.6
5 1	16 12.35	- 1 34.9	0.958	1.908	14.3	19.5	5 1	16 5.45	-23 40.3	4.227	5.168	4.4	20.5
5 11	16 4.50	+ 1 59.0	0.934	1.903	12.3	19.4	5 11	16 0.35	-23 33.0	4.178	5.168	2.4	20.3
5 21	15 55.07	+ 5 8.1	0.932	1.897	13.2	19.4	5 21	15 54.83	-23 22.7	4.158	5.169	0.6	20.2
5 31	15 45.67	+ 7 35.1	0.953	1.892	16.3	19.6	5 31	15 49.29	-23 10.3	4.169	5.170	2.0	20.3
6 10	15 37.85	+ 9 11.4	0.992	1.887	20.1	19.8	6 10	15 44.13	-22 57.1	4.208	5.171	4.0	20.5
6 20	15 32.67	+ 9 57.3	1.047	1.883	23.7	20.0	6 20	15 39.68	-22 44.3	4.275	5.172	5.8	20.6
6 30	15 30.74	+ 9 59.2	1.114	1.879	26.7	20.2	6 30	15 36.24	-22 33.2	4.366	5.173	7.5	20.7
303319	2004 <i>TZ</i> ₇₇		5 21.7 30°44	4.6°/22.9	17		493002	2014 <i>SN</i> ₂₀₆		5 21.7 170°31	1.7°/20.9	17	
4 21	16 22.58	-28 17.2	1.170	2.057	17.5	19.7	4 21	16 20.76	-16 55.8	1.871	2.752	12.2	22.2
5 1	16 16.24	-29 4.1	1.115	2.062	13.0	19.5	5 1	16 13.83	-16 32.8	1.805	2.756	8.6	22.0
5 11	16 6.69	-29 37.0	1.081	2.068	8.3	19.2	5 11	16 5.01	-16 7.4	1.765	2.759	4.6	21.7
5 21	15 55.21	-29 52.5	1.069	2.074	4.7	19.0	5 21	15 55.13	-15 41.6	1.751	2.761	1.7	21.5
5 31	15 43.62	-29 50.6	1.081	2.081	6.5	19.2	5 31	15 45.24	-15 18.4	1.766	2.763	4.7	21.7
6 10	15 33.75	-29 35.6	1.116	2.088	11.1	19.4	6 10	15 36.38	-15 0.7	1.808	2.765	8.7	22.0
6 20	15 26.87	-29 14.5	1.172	2.095	15.5	19.7	6 20	15 29.34	-14 50.9	1.873	2.765	12.3	22.2
6 30	15 23.70	-28 54.0	1.246	2.104	19.4	20.0	6 30	15 24.64	-14 50.7	1.960	2.766	15.3	22.4
521095	2015 <i>DY</i> ₂₄₂		5 21.7 344°37	1.3°/21.1	17		31680	Josephuitt		5 21.7 66°42	1.3°/20.9	18	
4 21	16 17.79	-17 28.4	1.730	2.619	12.6	21.2	4 21	16 17.97	-20 10.4	1.579	2.470	13.5	18.4
5 1	16 11.93	-17 20.0	1.663	2.617	8.9	21.0	5 1	16 12.01	-19 15.5	1.526	2.481	9.5	18.2
5 11	16 4.07	-17 9.3	1.620	2.615	4.8	20.7	5 11	16 4.05	-18 13.9	1.496	2.492	5.0	18.0
5 21	15 55.05	-16 58.0	1.603	2.614	1.3	20.5	5 21	15 55.06	-17 9.4	1.492	2.503	1.3	17.7
5 31	15 45.95	-16 48.3	1.612	2.613	4.7	20.7	5 31	15 46.22	-16 7.5	1.514	2.514	4.9	18.0
6 10	15 37.85	-16 43.0	1.648	2.611	8.9	21.0	6 10	15 38.64	-15 13.6	1.562	2.525	9.3	18.3
6 20	15 31.60	-16 44.2	1.707	2.611	12.7	21.2	6 20	15 33.08	-14 31.6	1.634	2.536	13.2	18.6
6 30	15 27.78	-16 53.5	1.786	2.610	15.9	21.4	6 30	15 30.03	-14 3.8	1.725	2.548	16.4	18.8
366581	2002 <i>TS</i> ₁₃₀		5 21.7 243°84	0.4°/21.4	17		34294	Taylordufford		5 21.7 196°64	1.5°/20.8	18	
4 21	16 20.13	-21 3.5	1.945	2.822	12.0	22.0	4 21	16 18.11	-18 30.9	1.950	2.833	11.7	19.2
5 1	16 13.56	-20 33.3	1.857	2.805	8.5	21.8	5 1	16 11.94	-17 45.3	1.880	2.831	8.2	19.0
5 11	16 4.96	-19 56.0	1.793	2.788	4.5	21.5	5 11	16 3.99	-16 54.9	1.834	2.829	4.4	18.8
5 21	15 55.11	-19 13.2	1.757	2.769	0.4	21.1	5 21	15 55.06	-16 2.7	1.816	2.827	1.5	18.6
5 31	15 45.06	-18 28.2	1.750	2.750	4.3	21.4	5 31	15 46.12	-15 12.5	1.827	2.824	4.6	18.8
6 10	15 35.87	-17 45.3	1.769	2.731	8.5	21.6	6 10	15 38.12	-14 28.6	1.864	2.821	8.4	19.0
6 20	15 28.43	-17 8.5	1.813	2.710	12.4	21.8	6 20	15 31.81	-13 54.3	1.925	2.818	12.0	19.2
6 30	15 23.35	-16 41.2	1.879	2.689	15.7	22.0	6 30	15 27.70	-13 31.8	2.008	2.814	15.0	19.4
457717	2009 <i>FE</i> ₅₀		5 21.7 65°90	1.6°/21.1	17		9640	Lippens		5 21.7 359°28			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
477653	2010 <i>NH</i> ₄₅		5 21.7 260°55	2°8/19.8	18	R	248385	2005 <i>SJ</i> ₁₄		5 21.7 197°23	8°3/13.6	18	
4 21	16 14.54	-12 32.2	2.531	3.411	9.5	21.5	4 21	16 13.75	+11 21.1	3.047	3.858	9.9	20.6
5 1	16 9.19	-11 57.7	2.449	3.397	6.8	21.3	5 1	16 8.39	+12 32.1	2.996	3.855	8.9	20.5
5 11	16 2.49	-11 23.6	2.393	3.383	4.1	21.1	5 11	16 1.98	+13 29.6	2.970	3.851	8.4	20.5
5 21	15 54.99	-10 52.5	2.365	3.368	2.8	21.0	5 21	15 54.99	+14 10.2	2.969	3.847	8.5	20.5
5 31	15 47.39	-10 26.9	2.366	3.353	4.7	21.1	5 31	15 48.00	+14 31.3	2.993	3.843	9.4	20.5
6 10	15 40.40	-10 9.1	2.394	3.338	7.6	21.3	6 10	15 41.55	+14 32.4	3.040	3.838	10.5	20.6
6 20	15 34.60	-10 0.7	2.447	3.323	10.4	21.4	6 20	15 36.11	+14 14.5	3.107	3.832	11.8	20.7
6 30	15 30.46	-10 2.3	2.522	3.308	12.8	21.6	6 30	15 32.04	+13 39.9	3.193	3.826	13.1	20.8
499285	2009 <i>VY</i> ₉₃		5 21.7 178°12	1°1/22.4	17		310337	2011 <i>UC</i> ₁₉₇		5 21.7 292°31	4°1/23.1	18	
4 21	16 19.53	-25 36.3	2.241	3.106	11.1	22.1	4 21	16 20.70	-30 36.3	2.142	2.995	12.0	20.2
5 1	16 12.81	-25 12.4	2.167	3.108	8.0	21.9	5 1	16 14.07	-31 25.2	2.059	2.985	9.2	20.0
5 11	16 4.41	-24 39.4	2.120	3.109	4.5	21.7	5 11	16 5.33	-32 4.5	2.000	2.975	6.2	19.8
5 21	15 55.11	-23 58.4	2.100	3.110	1.3	21.5	5 21	15 55.22	-32 31.8	1.968	2.965	4.2	19.6
5 31	15 45.81	-23 12.1	2.109	3.110	3.5	21.6	5 31	15 44.79	-32 45.9	1.964	2.955	5.1	19.6
6 10	15 37.43	-22 24.3	2.146	3.110	7.1	21.8	6 10	15 35.16	-32 48.5	1.987	2.945	8.0	19.8
6 20	15 30.66	-21 39.1	2.209	3.109	10.3	22.0	6 20	15 27.26	-32 43.0	2.035	2.935	11.1	20.0
6 30	15 25.99	-21 0.1	2.295	3.107	13.1	22.2	6 30	15 21.79	-32 33.6	2.104	2.925	13.9	20.1
262174	2006 <i>SP</i> ₁₁₇		5 21.7 193°10	1°0/22.1	17		497036	2003 <i>SA</i> ₃₂		5 21.7 258°30	5°4/23.8	17	
4 21	16 21.27	-23 52.7	2.047	2.916	11.8	22.0	4 21	16 25.32	-34 10.5	1.892	2.734	13.9	23.0
5 1	16 14.22	-23 46.0	1.971	2.915	8.5	21.8	5 1	16 17.79	-34 37.5	1.792	2.709	10.9	22.7
5 11	16 5.24	-23 31.6	1.921	2.912	4.7	21.5	5 11	16 7.51	-34 49.4	1.715	2.682	7.7	22.5
5 21	15 55.16	-23 10.0	1.898	2.909	1.1	21.3	5 21	15 55.37	-34 42.6	1.663	2.655	5.5	22.3
5 31	15 45.00	-22 43.1	1.903	2.905	3.8	21.5	5 31	15 42.68	-34 16.2	1.639	2.627	6.3	22.3
6 10	15 35.78	-22 14.3	1.937	2.901	7.7	21.7	6 10	15 30.92	-33 33.6	1.641	2.598	9.4	22.4
6 20	15 28.33	-21 47.4	1.995	2.895	11.3	21.9	6 20	15 21.30	-32 40.7	1.668	2.568	13.1	22.5
6 30	15 23.20	-21 25.7	2.076	2.890	14.3	22.1	6 30	15 14.70	-31 45.4	1.715	2.537	16.5	22.7
93650	2000 <i>UQ</i> ₉₄		5 21.7 307°29	2°7/22.9	17		303845	2005 <i>SV</i> ₁₇₆		5 21.7 223°95	0°1/21.6	18	
4 21	16 17.72	-28 19.9	1.545	2.424	14.4	19.1	4 21	16 15.61	-21 33.7	2.501	3.375	9.8	21.3
5 1	16 12.43	-28 6.6	1.458	2.403	10.7	18.8	5 1	16 9.97	-21 11.5	2.423	3.370	6.9	21.1
5 11	16 4.59	-27 38.5	1.393	2.382	6.5	18.5	5 11	16 2.92	-20 44.1	2.371	3.365	3.7	20.9
5 21	15 55.13	-26 55.3	1.352	2.361	2.9	18.2	5 21	15 55.07	-20 12.8	2.347	3.359	0.2	20.5
5 31	15 45.34	-25 59.8	1.337	2.340	4.9	18.3	5 31	15 47.16	-19 39.8	2.352	3.354	3.2	20.8
6 10	15 36.63	-24 57.7	1.347	2.319	9.5	18.5	6 10	15 39.96	-19 8.1	2.385	3.348	6.6	21.0
6 20	15 30.11	-23 56.0	1.380	2.300	14.0	18.7	6 20	15 34.07	-18 40.3	2.444	3.342	9.6	21.2
6 30	15 26.54	-23 1.3	1.432	2.280	17.9	18.9	6 30	15 29.95	-18 18.7	2.526	3.335	12.2	21.4
320648	2008 <i>CC</i> ₁₂₇		5 21.7 359°12	2°5/20.7	17		502047	2015 <i>AH</i> ₁₅₂		5 21.7 232°26	6°8/18.9	17	
4 21	16 15.66	-16 50.1	1.167	2.077	15.8	20.2	4 21	16 18.92	-3 42.9	1.707	2.586	13.3	21.2
5 1	16 11.06	-16 17.5	1.111	2.074	11.2	19.9	5 1	16 12.68	-3 7.2	1.646	2.583	10.3	21.0
5 11	16 3.83	-15 41.7	1.074	2.072	6.1	19.6	5 11	16 4.48	-2 41.5	1.607	2.580	7.6	20.8
5 21	15 55.08	-15 6.8	1.061	2.071	2.5	19.4	5 21	15 55.18	-2 30.1	1.594	2.577	6.9	20.8
5 31	15 46.27	-14 37.6	1.071	2.071	6.4	19.6	5 31	15 45.81	-2 36.1	1.607	2.573	8.6	20.9
6 10	15 38.85	-14 19.0	1.103	2.072	11.5	19.9	6 10	15 37.44	-3 0.3	1.644	2.570	11.6	21.0
6 20	15 33.88	-14 13.9	1.156	2.075	16.1	20.2	6 20	15 30.88	-3 41.7	1.703	2.566	14.7	21.2
6 30	15 31.99	-14 23.4	1.226	2.078	20.0	20.4	6 30	15 26.69	-4 38.0	1.781	2.562	17.5	21.4
316857	2000 <i>NH</i> ₁₀		5 21.7 273°44	0°1/21.7	18		308007	2004 <i>RS</i> ₁₃₈		5 21.7 331°11	1°0/21.2	17	
4 21	16 23.15	-21 59.9	1.776	2.651	13.1	21.3	4 21	16 12.90	-23 20.0	0.964	1.880	17.6	19.6
5 1	16 16.15	-21 37.7	1.669	2.616	9.4	21.0	5 1	16 9.76	-22 2.9	0.893	1.860	12.6	19.2
5 11	16 6.60	-21 6.4	1.586	2.579	5.1	20.7	5 11	16 3.46	-20 25.1	0.841	1.840	6.8	18.9
5 21	15 55.28	-20 26.9	1.529	2.541	0.3	20.2	5 21	15 55.12	-18 32.2	0.810	1.822	1.0	18.4
5 31	15 43.36	-19 41.9	1.501	2.502	4.7	20.5	5 31	15 46.46	-16 35.1	0.801	1.805	6.7	18.7
6 10	15 32.19	-18 56.1	1.500	2.462	9.6	20.7	6 10	15 39.30	-14 47.3	0.813	1.790	13.2	19.0
6 20	15 22.92	-18 14.8	1.523	2.421	14.2	20.8	6 20	15 34.97	-13 19.7	0.843	1.776	19.0	19.2
6 30	15 16.42	-17 42.8	1.566	2.379	18.2	21.0	6 30	15 34.29	-12 18.7	0.889	1.764	23.8	19.5
135964	2002 <i>TN</i> ₂₆₆		5 21.7 192°06	1°3/22.6	18		475219	2005 <i>VD</i> ₇₉		5 21.7 200°63	2°3/22.9	17	
4 21	16 17.24	-26 50.4	2.668	3.527	9.7	20.0	4 21	16 17.77	-27 47.5	2.536	3.394	10.2	22.0
5 1	16 11.03	-26 24.0	2.589	3.526	7.0	19.8	5 1	16 11.57	-28 2.7	2.459	3.393	7.5	21.8
5 11	16 3.42	-25 48.8	2.536	3.523	4.1	19.6	5 11	16 3.81	-28 10.0	2.407	3.391	4.6	21.7
5 21	15 55.06	-25 5.9	2.511	3.521	1.4	19.4	5 21	15 55.14	-28 8.8	2.384	3.389	2.4	21.5
5 31	15 46.70	-24 17.6	2.516	3.517	3.1	19.5	5 31	15 46.37	-27 59.8	2.388	3.387	3.6	21.6
6 10	15 39.08	-23 27.2	2.550	3.514	6.1	19.7	6 10	15 38.33	-27 45.3	2.421	3.384	6.4	21.8
6 20	15 32.81	-22 38.4	2.611	3.510	9.0	19.9	6 20	15 31.69	-27 28.1	2.480	3.382	9.3	21.9
6 30	15 28.30	-21 54.3	2.695	3.505	11.5	20.1	6 30	15 26.95	-27 11.3	2.562	3.379	11.8	22.1
148183	2000 <i>AG</i> ₂₀₈		5 21.7 269°37	1°2/20.9	18		150812	2001 <i>RA</i> ₁₁₁		5 21.7 165°89	5°6/24.1	18	
4 21	16 15.71	-16 51.4	2.459	3.338	9.7	20.4	4 21	16 23.98	-35 14.4	1.935	2.774	13.7	20.2
5 1	16 10.11	-16 39.6	2.373	3.323	6.9	20.2	5 1	16 16.49	-35 51.3	1.865	2.778	10.8	20.0
5 11	16 3.02	-16 26.1	2.313	3.307	3.7	20.0	5 11	16 6.61	-36 12.6	1.818	2.780	7.8	19.9
5 21	15 55.04	-16 12.4	2.281	3.292	1.2	19.8	5 21	15 55.32	-36 15.3	1.796	2.783	5.8	19.8
5 31	15 46.92	-16 0.2	2.278	3.276	3.8	19.9	5 31	15 43.90	-35 59.5	1.802	2.785	6.3	19.8
6 10	15 39.41	-15 51.6	2.302	3.260	7.1	20.1	6 10	15 33.64	-35 28.6	1.833	2.787	8.9	19.9
6 20	15 33.18	-15 48.3	2.352	3.243	10.1	20.3	6 20	15 25.56	-34 48.2	1.889	2.788	11.9	20.1
6 30	15 28.71	-15 51.8	2.424	3.227	12.8	20.4	6 30	15 20.29	-34 5.0	1.967	2.789	14.7	20.3
508486	2016 <i>PZ</i> ₆₇		5 21.7 313°74	1°8/20.5	18		437092	20					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
80038	1999 JD ₂₉		5 21.7 198°98	3°5/23.5	18		102643	1999 VQ ₄₃		5 21.7 284°83	0°3/21.8	18	
4 21	16 19.71	-31 20.0	2.450	3.297	10.9	18.7	4 21	16 18.81	-22 5.0	1.864	2.745	12.3	20.1
5 1	16 13.06	-31 45.2	2.372	3.294	8.3	18.5	5 1	16 12.87	-21 52.8	1.769	2.718	8.8	19.8
5 11	16 4.65	-32 0.1	2.318	3.292	5.6	18.4	5 11	16 4.77	-21 33.6	1.697	2.691	4.8	19.5
5 21	15 55.20	-32 3.4	2.292	3.289	3.6	18.2	5 21	15 55.24	-21 8.0	1.652	2.664	0.5	19.1
5 31	15 45.62	-31 55.4	2.295	3.287	4.4	18.3	5 31	15 45.34	-20 38.3	1.634	2.637	4.2	19.4
6 10	15 36.83	-31 38.4	2.325	3.283	7.0	18.4	6 10	15 36.23	-20 8.2	1.643	2.609	8.7	19.6
6 20	15 29.58	-31 15.7	2.381	3.280	9.7	18.6	6 20	15 28.87	-19 41.6	1.676	2.581	12.8	19.7
6 30	15 24.43	-30 51.5	2.460	3.276	12.3	18.8	6 30	15 23.98	-19 22.4	1.729	2.553	16.3	19.9
125921	2001 XG ₂₃₁		5 21.7 38°16	1°0/22.1	18		2838	Takase		5 21.7 189°86	0°4/21.5	18	
4 21	16 19.42	-23 0.7	1.531	2.418	14.1	19.5	4 21	16 21.65	-20 9.4	1.908	2.785	12.2	18.6
5 1	16 13.32	-23 5.6	1.472	2.423	10.1	19.3	5 1	16 14.57	-19 54.8	1.836	2.784	8.6	18.3
5 11	16 4.92	-23 2.9	1.435	2.429	5.5	19.1	5 11	16 5.50	-19 35.1	1.789	2.783	4.6	18.1
5 21	15 55.22	-22 52.8	1.423	2.435	1.2	18.8	5 21	15 55.29	-19 11.4	1.769	2.781	0.5	17.8
5 31	15 45.50	-22 37.6	1.438	2.441	4.5	19.0	5 31	15 45.00	-18 46.4	1.777	2.778	4.2	18.0
6 10	15 37.02	-22 20.7	1.477	2.447	9.0	19.3	6 10	15 35.71	-18 23.3	1.812	2.774	8.3	18.3
6 20	15 30.73	-22 6.2	1.540	2.454	13.1	19.6	6 20	15 28.26	-18 5.3	1.873	2.770	12.0	18.5
6 30	15 27.21	-21 57.4	1.622	2.461	16.5	19.8	6 30	15 23.21	-17 55.0	1.954	2.765	15.2	18.7
237474	2000 EW ₄₆		5 21.7 100°28	4°2/23.2	18		396227	2014 BA ₁		5 21.7 93°08	0°6/21.4	17	
4 21	16 24.52	-29 28.4	1.351	2.225	16.4	19.9	4 21	16 18.30	-19 25.0	2.075	2.954	11.3	21.1
5 1	16 17.29	-29 54.6	1.294	2.234	12.3	19.6	5 1	16 11.93	-19 11.5	2.021	2.971	7.9	21.0
5 11	16 7.16	-30 5.6	1.259	2.243	7.8	19.4	5 11	16 3.97	-18 54.4	1.993	2.987	4.1	20.7
5 21	15 55.37	-29 59.1	1.248	2.252	4.4	19.2	5 21	15 55.19	-18 35.1	1.992	3.004	0.6	20.5
5 31	15 43.57	-29 36.5	1.262	2.260	6.0	19.3	5 31	15 46.50	-18 15.8	2.019	3.020	3.8	20.8
6 10	15 33.41	-29 3.1	1.300	2.268	10.2	19.6	6 10	15 38.79	-17 59.2	2.073	3.035	7.4	21.0
6 20	15 26.02	-28 25.7	1.360	2.277	14.4	19.9	6 20	15 32.71	-17 47.6	2.153	3.051	10.6	21.3
6 30	15 22.04	-27 51.2	1.440	2.285	18.0	20.1	6 30	15 28.69	-17 42.8	2.254	3.066	13.4	21.5
212411	2006 KO ₄₂		5 21.7 304°51	0°1/21.6	17		459015	2011 YS ₂₃		5 21.7 63°29	3°3/23.1	17	
4 21	16 19.55	-20 32.4	1.320	2.216	15.3	20.5	4 21	16 22.06	-28 50.7	1.329	2.209	16.3	20.8
5 1	16 13.89	-20 28.9	1.246	2.203	10.9	20.2	5 1	16 15.34	-28 48.1	1.282	2.226	11.9	20.6
5 11	16 5.46	-20 19.1	1.194	2.191	5.9	19.9	5 11	16 6.01	-28 29.7	1.256	2.244	7.2	20.4
5 21	15 55.27	-20 4.2	1.166	2.178	0.4	19.4	5 21	15 55.33	-27 55.6	1.254	2.261	3.5	20.2
5 31	15 44.75	-19 46.7	1.163	2.166	5.3	19.7	5 31	15 44.88	-27 9.6	1.278	2.279	5.3	20.4
6 10	15 35.46	-19 30.8	1.183	2.155	10.6	20.0	6 10	15 36.11	-26 18.2	1.326	2.297	9.7	20.7
6 20	15 28.58	-19 20.6	1.225	2.143	15.5	20.2	6 20	15 29.99	-25 28.2	1.396	2.315	13.8	20.9
6 30	15 24.91	-19 19.7	1.285	2.132	19.6	20.5	6 30	15 27.02	-24 45.6	1.485	2.333	17.3	21.2
219718	2001 XL ₉₇		5 21.7 226°73	1°0/21.2	18		338197	2002 RM ₂₇₀		5 21.7 287°04	1°5/22.4	17	
4 21	16 20.41	-17 40.0	2.277	3.151	10.6	21.6	4 21	16 17.78	-25 13.5	1.904	2.780	12.3	21.1
5 1	16 13.54	-17 34.0	2.191	3.138	7.5	21.3	5 1	16 11.99	-25 6.5	1.824	2.770	8.9	20.8
5 11	16 4.92	-17 25.7	2.131	3.124	4.0	21.1	5 11	16 4.21	-24 50.3	1.769	2.760	5.1	20.6
5 21	15 55.23	-17 16.1	2.098	3.110	1.0	20.8	5 21	15 55.22	-24 25.6	1.740	2.750	1.6	20.3
5 31	15 45.35	-17 6.9	2.095	3.094	3.9	21.0	5 31	15 46.09	-23 54.3	1.738	2.741	4.0	20.5
6 10	15 36.19	-17 0.1	2.121	3.078	7.6	21.2	6 10	15 37.88	-23 20.2	1.763	2.731	8.0	20.7
6 20	15 28.51	-16 57.9	2.172	3.061	10.9	21.4	6 20	15 31.45	-22 47.5	1.812	2.722	11.7	20.9
6 30	15 22.86	-17 2.0	2.246	3.044	13.8	21.6	6 30	15 27.40	-22 20.1	1.882	2.712	14.9	21.1
137269	1999 RH ₁₄₁		5 21.7 191°14	3°6/23.4	17		356486	2011 RW ₁₁		5 21.7 161°21	4°2/18.3	18	
4 21	16 22.57	-30 27.2	1.741	2.602	14.0	20.2	4 21	16 14.31	- 6 36.6	2.858	3.729	8.8	21.9
5 1	16 15.53	-30 32.1	1.668	2.601	10.5	20.0	5 1	16 8.82	- 5 42.0	2.799	3.735	6.6	21.8
5 11	16 6.11	-30 22.6	1.619	2.600	6.7	19.7	5 11	16 2.24	- 4 51.5	2.766	3.740	4.8	21.7
5 21	15 55.31	-29 57.8	1.596	2.599	3.8	19.5	5 21	15 55.09	- 4 8.0	2.762	3.745	4.3	21.7
5 31	15 44.41	-29 19.3	1.599	2.597	5.1	19.6	5 31	15 47.98	- 3 34.2	2.786	3.749	5.6	21.7
6 10	15 34.73	-28 32.0	1.628	2.594	8.7	19.8	6 10	15 41.47	- 3 12.0	2.838	3.753	7.7	21.9
6 20	15 27.25	-27 41.9	1.682	2.591	12.5	20.0	6 20	15 36.05	- 3 1.9	2.914	3.756	9.9	22.0
6 30	15 22.59	-26 55.0	1.757	2.588	15.8	20.2	6 30	15 32.06	- 3 3.8	3.012	3.759	11.8	22.2
468757	2011 FP ₅₅		5 21.7 29°27	2°5/22.3	17		161427	2003 WC ₅₅		5 21.7 230°32	1°8/22.6	18	
4 21	16 22.61	-23 47.8	1.506	2.387	14.6	19.8	4 21	16 18.51	-26 29.1	2.098	2.966	11.6	20.5
5 1	16 15.75	-24 46.3	1.446	2.394	10.6	19.6	5 1	16 12.34	-26 24.6	2.020	2.961	8.5	20.3
5 11	16 6.31	-25 38.5	1.410	2.400	6.2	19.3	5 11	16 4.33	-26 10.9	1.967	2.955	5.0	20.0
5 21	15 55.32	-26 21.7	1.398	2.407	2.6	19.1	5 21	15 55.24	-25 48.0	1.941	2.950	1.9	19.8
5 31	15 44.17	-26 54.6	1.414	2.415	5.0	19.3	5 31	15 46.04	-25 17.9	1.942	2.944	3.8	19.9
6 10	15 34.28	-27 18.5	1.455	2.423	9.4	19.6	6 10	15 37.74	-24 43.9	1.971	2.938	7.4	20.2
6 20	15 26.75	-27 36.5	1.518	2.431	13.4	19.8	6 20	15 31.11	-24 10.0	2.025	2.931	10.8	20.3
6 30	15 22.26	-27 52.6	1.602	2.440	16.8	20.1	6 30	15 26.70	-23 40.2	2.101	2.925	13.8	20.5
8741	Suzukisuzuko		5 21.7 111°95	4°6/24.2	18		309080	2006 VD ₅₆		5 21.7 298°17	1°0/21.0	16	
4 21	16 19.33	-34 29.1	2.214	3.055	12.1	18.0	4 21	16 15.40	-20 11.0	1.995	2.880	11.4	20.9
5 1	16 12.90	-34 46.7	2.143	3.059	9.4	17.8	5 1	16 10.18	-19 20.6	1.911	2.864	8.0	20.7
5 11	16 4.59	-34 50.5	2.097	3.063	6.7	17.6	5 11	16 3.19	-18 23.1	1.851	2.847	4.3	20.4
5 21	15 55.21	-34 39.1	2.076	3.067	4.7	17.5	5 21	15 55.16	-17 21.5	1.819	2.830	1.0	20.1
5 31	15 45.78	-34 13.4	2.083	3.070	5.2	17.6	5 31	15 47.01	-16 19.9	1.814	2.814	4.3	20.3
6 10	15 37.32	-33 36.7	2.116	3.074	7.6	17.7	6 10	15 39.66	-15 23.2	1.836	2.797	8.3	20.5
6 20	15 30.64	-32 53.8	2.175	3.077	10.4	17.9	6 20	15 33.89	-14 35.3	1.882	2.781	11.9	20.7
6 30	15 25.26	-32 9.7	2.256	3.081	12.9	18.1	6 30	15 30.24	-13 59.3	1.950	2.765	15.0	20.9
108998	2001 PP ₆₂		5 21.7 204°72	5°2/19.1	17		7865	Francoisgros		5 21.7 174°82	1°0/22.1	18	
4 21	16 19.03	- 6 6.9	2.107</										

EPHEMERIDES

5 21.7

5 21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
320327	2007 <i>TO</i> ₆₃		5 21.7 207°46	0°1/21.7 17			470326	2007 <i>RB</i> ₅		5 21.7 272°87	0°2/21.6 18		
4 21	16 17.62	-20 46.3	2.196	3.074	10.8	21.3	4 21	16 19.61	-19 48.7	2.127	3.003	11.2	21.3
5 1	16 11.57	-20 38.0	2.123	3.071	7.7	21.1	5 1	16 13.25	-19 49.8	2.030	2.978	8.0	21.1
5 11	16 3.87	-20 25.1	2.075	3.069	4.1	20.9	5 11	16 4.95	-19 47.3	1.957	2.951	4.3	20.8
5 21	15 55.21	-20 8.6	2.054	3.066	0.3	20.6	5 21	15 55.36	-19 41.7	1.913	2.925	0.3	20.4
5 31	15 46.49	-19 50.4	2.061	3.063	3.6	20.8	5 31	15 45.42	-19 34.2	1.896	2.897	3.9	20.7
6 10	15 38.58	-19 33.1	2.096	3.060	7.2	21.1	6 10	15 36.14	-19 27.2	1.907	2.870	7.9	20.9
6 20	15 32.18	-19 19.3	2.156	3.056	10.6	21.3	6 20	15 28.38	-19 23.2	1.944	2.842	11.6	21.0
6 30	15 27.80	-19 11.2	2.239	3.053	13.4	21.4	6 30	15 22.81	-19 24.6	2.002	2.813	14.8	21.2
56222	1999 <i>JF</i> ₉		5 21.7 194°02	5°0/18.9 18			162342	1999 <i>XT</i> ₁₃₈		5 21.7 244°11	2°1/20.7 18		
4 21	16 15.44	-6 27.2	2.157	3.037	10.9	19.3	4 21	16 17.98	-14 50.9	2.048	2.931	11.3	20.3
5 1	16 9.93	-5 45.6	2.095	3.036	8.2	19.1	5 1	16 11.93	-14 36.5	1.972	2.923	8.0	20.1
5 11	16 2.95	-5 9.7	2.059	3.036	5.8	18.9	5 11	16 4.13	-14 22.0	1.922	2.915	4.5	19.8
5 21	15 55.16	-4 43.0	2.048	3.036	5.1	18.9	5 21	15 55.30	-14 9.1	1.898	2.907	2.1	19.7
5 31	15 47.36	-4 28.4	2.065	3.036	6.7	19.0	5 31	15 46.34	-14 0.1	1.903	2.898	4.7	19.8
6 10	15 40.33	-4 27.5	2.108	3.035	9.4	19.2	6 10	15 38.18	-13 57.1	1.934	2.890	8.3	20.0
6 20	15 34.71	-4 40.5	2.174	3.035	12.1	19.3	6 20	15 31.58	-14 1.8	1.990	2.881	11.7	20.2
6 30	15 30.94	-5 6.6	2.261	3.035	14.5	19.5	6 30	15 27.08	-14 15.0	2.067	2.872	14.6	20.4
268468	2005 <i>WH</i> ₂₀₅		5 21.7 87°90	0°3/21.8 17			299328	2005 <i>QL</i> ₁₆₆		5 21.7 288°46	0°3/21.9 16		
4 21	16 19.83	-22 24.1	1.740	2.621	13.0	21.2	4 21	16 15.94	-23 18.9	2.122	3.000	11.1	20.6
5 1	16 13.27	-22 6.3	1.687	2.636	9.2	21.0	5 1	16 10.47	-22 45.1	2.045	2.993	7.9	20.4
5 11	16 4.77	-21 41.4	1.657	2.651	4.9	20.7	5 11	16 3.33	-22 3.2	1.992	2.986	4.3	20.2
5 21	15 55.28	-21 10.8	1.655	2.667	0.5	20.4	5 21	15 55.24	-21 15.3	1.967	2.979	0.5	19.8
5 31	15 45.91	-20 37.6	1.679	2.682	4.1	20.7	5 31	15 47.10	-20 24.4	1.969	2.972	3.6	20.1
6 10	15 37.75	-20 6.0	1.730	2.696	8.3	21.0	6 10	15 39.80	-19 34.6	1.999	2.965	7.4	20.3
6 20	15 31.55	-19 39.4	1.805	2.711	11.9	21.3	6 20	15 34.04	-18 49.9	2.054	2.958	10.8	20.5
6 30	15 27.80	-19 20.8	1.901	2.725	15.0	21.5	6 30	15 30.34	-18 13.4	2.131	2.951	13.8	20.7
306778	2001 <i>DF</i> ₉₂		5 21.7 154°57	7°4/27.1 17			86381	2000 <i>AM</i> ₄₀		5 21.7 206°49	2°0/22.4 18		
4 21	16 28.23	-48 50.6	3.015	3.756	11.6	22.1	4 21	16 23.78	-25 11.4	1.472	2.351	15.0	19.5
5 1	16 19.09	-49 31.5	2.946	3.768	10.0	22.0	5 1	16 16.72	-25 19.6	1.402	2.348	10.9	19.3
5 11	16 7.88	-49 54.0	2.899	3.779	8.6	21.9	5 11	16 6.94	-25 17.5	1.354	2.345	6.3	19.0
5 21	15 55.49	-49 55.3	2.877	3.789	7.6	21.8	5 21	15 55.51	-25 4.2	1.331	2.341	2.1	18.7
5 31	15 43.06	-49 34.8	2.882	3.798	7.5	21.8	5 31	15 43.89	-24 41.4	1.335	2.337	4.9	18.9
6 10	15 31.71	-48 55.2	2.913	3.807	8.3	21.9	6 10	15 33.59	-24 13.7	1.363	2.332	9.7	19.1
6 20	15 22.31	-48 1.2	2.970	3.814	9.6	22.0	6 20	15 25.73	-23 46.4	1.415	2.327	14.2	19.4
6 30	15 15.42	-46 58.9	3.049	3.821	11.1	22.1	6 30	15 21.03	-23 24.7	1.486	2.322	17.9	19.6
409346	2004 <i>XF</i> ₆₈		5 21.7 55°75	3°1/20.6 17			403365	2009 <i>HF</i> ₄₉		5 21.7 60°77	6°7/18.4 17		
4 21	16 20.23	-15 9.0	1.217	2.119	15.9	20.2	4 21	16 16.01	-0 19.5	2.168	3.034	11.4	20.8
5 1	16 13.95	-14 34.5	1.178	2.137	11.2	20.0	5 1	16 10.31	+0 13.3	2.113	3.038	9.1	20.6
5 11	16 5.24	-13 59.8	1.160	2.155	6.2	19.8	5 11	16 3.17	+0 35.1	2.083	3.042	7.2	20.5
5 21	15 55.32	-13 29.0	1.166	2.174	3.1	19.6	5 21	15 55.26	+0 42.8	2.078	3.045	6.8	20.5
5 31	15 45.65	-13 6.4	1.196	2.193	6.5	19.9	5 31	15 47.37	+0 34.1	2.100	3.049	8.1	20.6
6 10	15 37.59	-12 55.5	1.250	2.212	11.1	20.2	6 10	15 40.27	+0 8.7	2.147	3.053	10.3	20.7
6 20	15 32.02	-12 57.9	1.325	2.232	15.3	20.5	6 20	15 34.58	+0 32.1	2.217	3.057	12.6	20.9
6 30	15 29.41	-13 13.6	1.418	2.251	18.7	20.8	6 30	15 30.73	-1 26.2	2.307	3.061	14.7	21.1
221202	2005 <i>UR</i> ₆₁		5 21.7 82°34	0°2/21.6 17			519561	2012 <i>RM</i> ₄₄		5 21.7 188°39	6°7/25.1 17		
4 21	16 19.98	-20 21.2	1.677	2.562	13.2	20.6	4 21	16 22.64	-39 29.2	2.097	2.917	13.5	21.1
5 1	16 13.49	-20 16.9	1.621	2.572	9.3	20.4	5 1	16 15.59	-40 7.2	2.023	2.917	11.0	20.9
5 11	16 4.95	-20 7.6	1.588	2.583	4.9	20.2	5 11	16 6.22	-40 27.7	1.971	2.916	8.5	20.8
5 21	15 55.31	-19 54.4	1.582	2.594	0.3	19.8	5 21	15 55.47	-40 27.8	1.945	2.916	6.9	20.7
5 31	15 45.71	-19 39.7	1.602	2.604	4.3	20.2	5 31	15 44.56	-40 7.0	1.945	2.915	7.1	20.7
6 10	15 37.29	-19 26.5	1.649	2.615	8.6	20.5	6 10	15 34.75	-39 28.7	1.970	2.914	9.0	20.8
6 20	15 30.87	-19 17.9	1.719	2.626	12.4	20.7	6 20	15 27.03	-38 38.6	2.020	2.913	11.5	21.0
6 30	15 26.99	-19 16.2	1.810	2.636	15.6	20.9	6 30	15 22.02	-37 43.5	2.092	2.912	14.0	21.1
280647	2005 <i>BD</i> ₁₂		5 21.7 212°57	1°4/21.0 18			382291	2012 <i>UQ</i> ₆₁		5 21.7 283°84	0°4/21.4 18		
4 21	16 18.24	-16 58.7	2.077	2.959	11.2	20.9	4 21	16 11.67	-17 35.9	4.364	5.233	6.1	20.9
5 1	16 12.06	-16 44.6	2.005	2.955	7.9	20.7	5 1	16 6.83	-17 47.2	4.282	5.227	4.2	20.7
5 11	16 4.16	-16 28.7	1.957	2.951	4.2	20.5	5 11	16 1.21	-17 57.8	4.228	5.221	2.2	20.6
5 21	15 55.27	-16 12.3	1.936	2.947	1.4	20.3	5 21	15 55.13	-18 8.0	4.204	5.216	0.4	20.4
5 31	15 46.28	-15 57.9	1.944	2.942	4.2	20.5	5 31	15 49.00	-18 18.3	4.210	5.210	2.1	20.5
6 10	15 38.14	-15 47.8	1.979	2.938	7.9	20.7	6 10	15 43.20	-18 29.5	4.246	5.204	4.1	20.7
6 20	15 31.56	-15 43.9	2.039	2.933	11.3	20.9	6 20	15 38.08	-18 42.1	4.310	5.198	6.0	20.8
6 30	15 27.08	-15 47.9	2.120	2.928	14.2	21.1	6 30	15 33.93	-18 56.8	4.399	5.193	7.6	20.9
140931	2001 <i>VO</i> ₈₁		5 21.7 171°96	0°6/21.3 18			497434	2005 <i>XA</i> ₆₃		5 21.7 238°78	0°4/21.9 17		
4 21	16 16.37	-19 9.7	2.764	3.637	9.0	21.1	4 21	16 20.10	-22 3.6	1.997	2.872	11.8	22.1
5 1	16 10.39	-18 53.4	2.693	3.640	6.3	20.9	5 1	16 13.60	-21 58.1	1.914	2.860	8.5	21.9
5 11	16 3.14	-18 34.2	2.649	3.642	3.3	20.7	5 11	16 5.11	-21 46.5	1.855	2.848	4.6	21.6
5 21	15 55.21	-18 13.1	2.633	3.645	0.6	20.5	5 21	15 55.40	-21 29.3	1.823	2.835	0.6	21.3
5 31	15 47.27	-17 52.1	2.647	3.646	3.1	20.7	5 31	15 45.49	-21 8.4	1.819	2.822	3.9	21.5
6 10	15 39.98	-17 33.1	2.689	3.648	6.1	20.9	6 10	15 36.44	-20 46.9	1.843	2.808	8.0	21.7
6 20	15 33.89	-17 18.2	2.758	3.648	8.9	21.1	6 20	15 29.09	-20 28.0	1.892	2.793	11.7	21.9
6 30	15 29.41	-17 8.9	2.850	3.649	11.2	21.3	6 30	15 24.07	-20 15.0	1.962	2.779	14.9	22.1
302204	2001 <i>UB</i> ₁₂₁		5 21.7 197°80	1°6/20.9 16			369676	2011 <i>VO</i> ₁₂					

EPHEMERIDES

5 21.7

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
380150	1999 VG ₁₂₅		5 21.7 114°08'	1.7°/22.4	17		337040	1995 WD ₂₈		5 21.7 290°71'	0.8°/21.9	12	C
4 21	16 21.05	-24 38.7	2.043	2.912	11.9	21.0	4 21	16 22.33	-20 58.4	1.803	2.681	12.8	21.3
5 1	16 14.09	-24 57.4	1.981	2.923	8.5	20.8	5 1	16 15.67	-21 28.4	1.702	2.650	9.3	21.0
5 11	16 5.27	-25 8.9	1.945	2.934	4.9	20.6	5 11	16 6.51	-21 55.8	1.625	2.618	5.1	20.7
5 21	15 55.42	-25 12.6	1.935	2.945	1.8	20.4	5 21	15 55.57	-22 19.4	1.574	2.586	0.9	20.3
5 31	15 45.56	-25 9.7	1.954	2.955	3.8	20.6	5 31	15 43.98	-22 38.8	1.552	2.554	4.4	20.5
6 10	15 36.70	-25 2.4	2.000	2.966	7.4	20.8	6 10	15 33.06	-22 55.2	1.556	2.521	9.1	20.7
6 20	15 29.62	-24 53.8	2.072	2.976	10.7	21.0	6 20	15 23.95	-23 11.0	1.584	2.489	13.4	20.9
6 30	15 24.84	-24 47.2	2.165	2.985	13.6	21.2	6 30	15 17.53	-23 29.1	1.633	2.456	17.2	21.0
505631	2014 HA ₁₈₈		5 21.7 51°84'	1.3°/21.3	17		306331	2011 SH ₁₁₅		5 21.7 330°52'	10.8°/13.9	17	
4 21	16 19.63	-15 35.2	1.919	2.801	11.9	20.7	4 21	16 13.03	+ 2 47.4	1.616	2.492	14.1	19.8
5 1	16 12.98	-15 54.2	1.872	2.823	8.3	20.5	5 1	16 8.73	+ 4 42.9	1.557	2.477	12.0	19.7
5 11	16 4.61	-16 13.5	1.851	2.845	4.5	20.3	5 11	16 2.56	+ 6 25.1	1.521	2.463	10.8	19.5
5 21	15 55.38	-16 33.3	1.856	2.867	1.3	20.1	5 21	15 55.29	+ 7 45.3	1.508	2.449	11.2	19.5
5 31	15 46.24	-16 54.4	1.890	2.889	4.2	20.4	5 31	15 47.90	+ 8 36.7	1.518	2.435	12.9	19.6
6 10	15 38.15	-17 17.7	1.951	2.912	7.8	20.6	6 10	15 41.41	+ 8 56.4	1.549	2.423	15.3	19.7
6 20	15 31.81	-17 44.0	2.036	2.935	11.1	20.9	6 20	15 36.61	+ 8 45.3	1.598	2.411	17.9	19.9
6 30	15 27.66	-18 14.1	2.143	2.957	13.9	21.1	6 30	15 34.07	+ 8 6.9	1.662	2.400	20.2	20.0
143893	2003 YS ₄₄		5 21.7 186°36'	3.2°/20.4	17		206727	2004 BE ₇₈		5 21.7 222°75'	1.1°/21.2	18	
4 21	16 20.69	-12 33.8	1.797	2.680	12.5	20.8	4 21	16 17.36	-17 57.2	2.185	3.065	10.8	21.1
5 1	16 13.96	-12 13.2	1.731	2.680	9.0	20.5	5 1	16 11.43	-17 41.0	2.110	3.060	7.6	20.9
5 11	16 5.25	-11 54.4	1.689	2.680	5.3	20.3	5 11	16 3.88	-17 22.0	2.061	3.056	4.0	20.7
5 21	15 55.43	-11 39.9	1.674	2.679	3.2	20.2	5 21	15 55.39	-17 1.9	2.040	3.051	1.1	20.4
5 31	15 45.54	-11 32.4	1.686	2.677	5.7	20.3	5 31	15 46.81	-16 42.8	2.047	3.046	3.9	20.6
6 10	15 36.65	-11 33.9	1.724	2.676	9.5	20.5	6 10	15 39.02	-16 27.4	2.081	3.041	7.5	20.8
6 20	15 29.58	-11 45.7	1.787	2.673	13.1	20.8	6 20	15 32.71	-16 17.7	2.140	3.035	10.8	21.0
6 30	15 24.90	-12 8.0	1.869	2.671	16.1	21.0	6 30	15 28.39	-16 15.5	2.221	3.030	13.6	21.2
325020	2008 CA ₂₁		5 21.7 224°36'	4.2°/23.4	17		110231	2001 SJ ₂₂₈		5 21.7 31°07'	8.3°/23.8	17	
4 21	16 23.23	-31 4.6	1.779	2.636	13.9	21.6	4 21	16 24.68	-34 21.9	1.207	2.075	18.4	17.9
5 1	16 16.17	-31 27.3	1.700	2.629	10.6	21.4	5 1	16 17.97	-35 59.0	1.162	2.090	14.5	17.7
5 11	16 6.62	-31 36.5	1.644	2.622	7.0	21.2	5 11	16 7.84	-37 16.4	1.138	2.106	10.8	17.6
5 21	15 55.53	-31 29.9	1.614	2.614	4.4	21.0	5 21	15 55.66	-38 6.9	1.136	2.122	8.5	17.5
5 31	15 44.19	-31 8.1	1.611	2.606	5.5	21.1	5 31	15 43.38	-38 28.3	1.158	2.140	9.1	17.6
6 10	15 33.97	-30 34.8	1.634	2.597	8.9	21.2	6 10	15 32.97	-38 24.7	1.201	2.159	12.1	17.8
6 20	15 25.92	-29 55.6	1.681	2.588	12.6	21.4	6 20	15 25.78	-38 4.2	1.266	2.178	15.5	18.1
6 30	15 20.74	-29 16.6	1.749	2.579	15.9	21.6	6 30	15 22.52	-37 36.0	1.348	2.198	18.6	18.3
259109	2002 WP ₁₈		5 21.7 137°70'	5.3°/19.0	17		342268	2008 SV ₃₀₉		5 21.7 250°82'	2.1°/20.7	17	
4 21	16 18.88	- 8 5.5	1.812	2.694	12.5	20.4	4 21	16 17.70	-15 48.7	1.978	2.862	11.5	21.4
5 1	16 12.52	- 7 10.2	1.758	2.703	9.2	20.2	5 1	16 11.82	-15 22.4	1.902	2.854	8.2	21.1
5 11	16 4.40	- 6 20.0	1.729	2.710	6.3	20.0	5 11	16 4.15	-14 54.5	1.851	2.845	4.5	20.9
5 21	15 55.37	- 5 39.3	1.726	2.718	5.4	20.0	5 21	15 55.41	-14 27.4	1.826	2.835	2.1	20.7
5 31	15 46.40	- 5 12.1	1.750	2.725	7.3	20.1	5 31	15 46.55	-14 3.8	1.830	2.826	4.8	20.9
6 10	15 38.47	- 5 0.7	1.800	2.732	10.4	20.3	6 10	15 38.53	-13 46.8	1.860	2.816	8.5	21.1
6 20	15 32.28	- 5 5.5	1.872	2.738	13.5	20.5	6 20	15 32.11	-13 38.4	1.914	2.806	12.0	21.3
6 30	15 28.32	- 5 25.4	1.964	2.744	16.1	20.7	6 30	15 27.84	-13 40.1	1.989	2.796	15.0	21.5
49589	1999 CQ ₁₄₉		5 21.7 103°75'	1.0°/21.2	18		207831	2007 TR ₃₈₀		5 21.7 137°33'	0.3°/21.6	17	
4 21	16 17.02	-18 42.0	2.127	3.008	11.0	19.4	4 21	16 17.78	-20 0.1	2.086	2.965	11.2	20.9
5 1	16 11.11	-18 19.1	2.065	3.016	7.7	19.2	5 1	16 11.76	-19 50.9	2.018	2.968	7.9	20.6
5 11	16 3.63	-17 52.9	2.029	3.024	4.1	19.0	5 11	16 4.05	-19 37.5	1.976	2.971	4.2	20.4
5 21	15 55.32	-17 25.2	2.021	3.032	1.0	18.8	5 21	15 55.40	-19 21.3	1.961	2.973	0.4	20.1
5 31	15 47.04	-16 58.6	2.040	3.040	3.9	19.0	5 31	15 46.71	-19 4.1	1.974	2.975	3.7	20.4
6 10	15 39.65	-16 36.0	2.087	3.048	7.5	19.3	6 10	15 38.90	-18 48.8	2.014	2.978	7.5	20.6
6 20	15 33.80	-16 19.6	2.158	3.055	10.7	19.5	6 20	15 32.68	-18 37.6	2.079	2.980	10.8	20.8
6 30	15 29.93	-16 11.2	2.252	3.063	13.4	19.7	6 30	15 28.54	-18 32.8	2.166	2.982	13.7	21.0
20139	Marianeschi		5 21.7 205°08'	11.2°/27.9	17		303679	2005 NA ₅		5 21.7 256°51'	0.4°/21.5	18	
4 21	16 33.96	-53 1.5	2.170	2.901	15.8	19.3	4 21	16 16.60	-20 14.4	2.346	3.223	10.2	21.8
5 1	16 24.30	-53 58.0	2.089	2.895	14.1	19.1	5 1	16 10.89	-19 57.6	2.262	3.211	7.2	21.5
5 11	16 11.17	-54 28.8	2.028	2.889	12.5	19.0	5 11	16 3.60	-19 36.4	2.204	3.198	3.9	21.3
5 21	15 55.87	-54 27.4	1.988	2.881	11.4	18.9	5 21	15 55.38	-19 12.0	2.173	3.185	0.4	21.0
5 31	15 40.27	-53 51.2	1.972	2.873	11.2	18.9	5 31	15 47.02	-18 46.6	2.170	3.171	3.5	21.2
6 10	15 26.35	-52 43.8	1.979	2.863	12.0	18.9	6 10	15 39.36	-18 22.9	2.196	3.158	7.1	21.4
6 20	15 15.54	-51 13.3	2.010	2.853	13.6	19.0	6 20	15 33.08	-18 3.4	2.247	3.144	10.3	21.6
6 30	15 8.61	-49 30.1	2.061	2.842	15.5	19.1	6 30	15 28.67	-17 50.4	2.320	3.130	13.1	21.8
35418	1998 AP ₅		5 21.7 340°16'	10.4°/26.4	18		293098	2006 XH ₁₂		5 21.7 198°51'	1.5°/22.8	18	
4 21	16 21.90	-44 0.9	1.524	2.346	17.6	17.8	4 21	16 16.59	-27 6.8	2.362	3.227	10.6	20.4
5 1	16 15.98	-44 53.6	1.453	2.339	15.0	17.6	5 1	16 10.83	-26 42.4	2.287	3.226	7.7	20.2
5 11	16 6.80	-45 20.7	1.401	2.332	12.4	17.4	5 11	16 3.52	-26 8.5	2.237	3.225	4.5	20.0
5 21	15 55.57	-45 16.4	1.370	2.326	10.6	17.3	5 21	15 55.37	-25 26.0	2.215	3.224	1.7	19.8
5 31	15 44.05	-44 39.2	1.361	2.321	10.6	17.3	5 31	15 47.22	-24 37.5	2.221	3.223	3.3	19.9
6 10	15 34.10	-43 34.0	1.375	2.316	12.3	17.4	6 10	15 39.89	-23 46.8	2.255	3.222	6.6	20.1
6 20	15 27.08	-42 10.0	1.411	2.312	14.9	17.5	6 20	15 34.02	-22 57.8	2.315	3.220	9.7	20.3
6 30	15 23.79	-40 38.1	1.465	2.309	17.8	17.7	6 30	15 30.09	-22 14.1	2.398	3.219	12.4	20.5
184041	2004 FQ ₈₄		5 21.7 265°58'	2.2°/20.6	18		38018	Louisneefs		5 21.7 236°12'	3.5°/19.3	18	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
76504	2000 <i>GN</i> ₂₈		5 21.7 143°53	0°6/22.1	18		296858	2009 <i>WA</i> ₂₀₇		5 21.7 242°25	0°9/22.1	17	
4 21	16 17.98	-23 1.8	2.094	2.969	11.4	19.7	4 21	16 20.12	-23 3.9	1.821	2.699	12.7	20.8
5 1	16 11.92	-22 51.8	2.025	2.972	8.1	19.5	5 1	16 13.77	-23 6.4	1.746	2.693	9.1	20.6
5 11	16 4.15	-22 35.2	1.982	2.974	4.4	19.2	5 11	16 5.29	-23 1.9	1.694	2.686	5.0	20.3
5 21	15 55.43	-22 12.9	1.965	2.977	0.7	19.0	5 21	15 55.54	-22 50.7	1.668	2.680	1.1	20.0
5 31	15 46.67	-21 47.1	1.977	2.979	3.6	19.2	5 31	15 45.62	-22 34.4	1.670	2.673	4.1	20.2
6 10	15 38.82	-21 20.8	2.016	2.982	7.3	19.4	6 10	15 36.67	-22 16.1	1.699	2.666	8.3	20.5
6 20	15 32.58	-20 57.4	2.080	2.984	10.7	19.6	6 20	15 29.60	-21 59.6	1.751	2.659	12.2	20.7
6 30	15 28.47	-20 39.5	2.165	2.986	13.6	19.8	6 30	15 25.03	-21 48.0	1.825	2.652	15.5	20.9
393037	2013 <i>AM</i> ₁₂		5 21.7 164°58	6°9/18.1	18		382674	2002 <i>TH</i> ₂₂₄		5 21.7 150°91	3°6/20.0	18	
4 21	16 16.09	+ 1 16.4	2.340	3.198	11.0	20.7	4 21	16 25.63	-15 34.8	1.426	2.312	15.0	21.8
5 1	16 10.33	+ 1 50.3	2.282	3.199	8.9	20.5	5 1	16 17.62	-14 19.1	1.372	2.324	10.6	21.6
5 11	16 3.22	+ 2 13.0	2.249	3.200	7.3	20.4	5 11	16 7.25	-12 59.9	1.343	2.335	6.1	21.4
5 21	15 55.37	+ 2 21.4	2.243	3.201	7.0	20.4	5 21	15 55.67	-11 43.2	1.340	2.345	3.7	21.2
5 31	15 47.51	+ 2 13.3	2.262	3.202	8.1	20.5	5 31	15 44.29	-10 35.8	1.363	2.354	6.9	21.4
6 10	15 40.39	+ 1 48.3	2.307	3.202	10.1	20.6	6 10	15 34.42	- 9 43.5	1.413	2.362	11.3	21.7
6 20	15 34.58	+ 1 7.8	2.375	3.203	12.3	20.7	6 20	15 26.97	- 9 9.5	1.484	2.368	15.4	22.0
6 30	15 30.50	+ 0 13.8	2.463	3.204	14.3	20.9	6 30	15 22.46	- 8 54.5	1.575	2.374	18.7	22.2
137815	1999 <i>YS</i> ₂₃		5 21.7 213°14	1°2/21.2	17		303905	2005 <i>TV</i> ₁₅₂		5 21.7 238°93	0°3/21.9	18	R
4 21	16 20.64	-18 35.8	1.935	2.815	12.0	21.7	4 21	16 16.05	-23 25.8	2.535	3.405	9.8	20.3
5 1	16 13.94	-18 8.8	1.858	2.808	8.5	21.5	5 1	16 10.40	-22 55.1	2.451	3.396	7.0	20.1
5 11	16 5.30	-17 37.5	1.806	2.800	4.5	21.2	5 11	16 3.31	-22 17.5	2.394	3.386	3.8	19.9
5 21	15 55.52	-17 3.7	1.781	2.792	1.2	21.0	5 21	15 55.41	-21 34.3	2.364	3.376	0.5	19.6
5 31	15 45.62	-16 30.6	1.784	2.783	4.4	21.2	5 31	15 47.45	-20 48.2	2.364	3.366	3.1	19.8
6 10	15 36.64	-16 1.7	1.814	2.774	8.5	21.4	6 10	15 40.18	-20 2.4	2.392	3.356	6.5	20.0
6 20	15 29.41	-15 40.2	1.869	2.763	12.2	21.6	6 20	15 34.22	-19 20.3	2.446	3.345	9.5	20.2
6 30	15 24.49	-15 28.3	1.945	2.753	15.3	21.8	6 30	15 30.03	-18 44.6	2.523	3.334	12.1	20.4
145021	2005 <i>EB</i> ₂₅₇		5 21.7 354°66	11°7/25.9	17		344543	2002 <i>VA</i> ₁₈		5 21.7 213°33	0°9/21.2	17	
4 21	16 23.35	-43 17.3	1.277	2.112	19.6	19.1	4 21	16 16.87	-19 14.9	2.422	3.298	10.0	21.4
5 1	16 17.50	-44 34.6	1.214	2.109	16.6	18.9	5 1	16 10.98	-18 42.8	2.344	3.292	7.0	21.2
5 11	16 7.84	-45 24.6	1.170	2.106	13.8	18.7	5 11	16 3.62	-18 6.6	2.292	3.286	3.7	20.9
5 21	15 55.71	-45 39.4	1.145	2.104	11.9	18.6	5 21	15 55.44	-17 28.0	2.268	3.279	0.9	20.7
5 31	15 43.19	-45 16.3	1.142	2.103	11.9	18.6	5 31	15 47.20	-16 49.9	2.273	3.272	3.6	20.9
6 10	15 32.52	-44 20.3	1.160	2.103	13.8	18.7	6 10	15 39.68	-16 15.2	2.307	3.265	7.0	21.1
6 20	15 25.32	-43 2.2	1.198	2.103	16.7	18.9	6 20	15 33.51	-15 46.6	2.366	3.257	10.1	21.3
6 30	15 22.41	-41 34.5	1.253	2.105	19.7	19.1	6 30	15 29.15	-15 26.2	2.447	3.249	12.7	21.5
41122	1999 <i>VD</i> ₉₀		5 21.7 171°54	1°3/22.5	18		123214	2000 <i>UX</i> ₃₇		5 21.7 277°22	0°1/21.7	18	
4 21	16 17.03	-25 12.6	2.717	3.580	9.5	19.1	4 21	16 17.03	-20 47.7	2.322	3.198	10.4	20.5
5 1	16 11.00	-25 16.3	2.644	3.582	6.8	18.9	5 1	16 11.30	-20 36.0	2.228	3.175	7.4	20.3
5 11	16 3.59	-25 13.7	2.596	3.584	3.9	18.7	5 11	16 3.91	-20 19.4	2.159	3.153	4.0	20.0
5 21	15 55.40	-25 5.0	2.576	3.585	1.4	18.5	5 21	15 55.46	-19 59.1	2.118	3.130	0.3	19.7
5 31	15 47.17	-24 51.4	2.586	3.587	3.0	18.6	5 31	15 46.80	-19 36.8	2.106	3.107	3.5	19.9
6 10	15 39.61	-24 34.8	2.624	3.588	6.0	18.8	6 10	15 38.77	-19 15.2	2.121	3.084	7.2	20.1
6 20	15 33.33	-24 17.9	2.688	3.588	8.7	19.0	6 20	15 32.11	-18 57.1	2.162	3.061	10.6	20.3
6 30	15 28.76	-24 3.1	2.776	3.589	11.1	19.2	6 30	15 27.40	-18 44.8	2.224	3.037	13.5	20.4
420366	2012 <i>BO</i> ₁₀₆		5 21.7 351°78	3°0/20.9	17		129291	2005 <i>SJ</i> ₆₀		5 21.7 273°62	1°7/22.6	18	
4 21	16 20.01	-13 28.4	1.270	2.170	15.5	19.8	4 21	16 17.70	-25 41.1	2.331	3.198	10.7	19.9
5 1	16 14.16	-13 30.5	1.209	2.167	11.1	19.5	5 1	16 11.81	-25 48.3	2.242	3.182	7.8	19.7
5 11	16 5.66	-13 35.8	1.169	2.164	6.3	19.2	5 11	16 4.18	-25 48.3	2.178	3.166	4.6	19.5
5 21	15 55.56	-13 46.1	1.154	2.162	3.0	19.0	5 21	15 55.48	-25 40.7	2.141	3.150	1.8	19.3
5 31	15 45.28	-14 3.5	1.162	2.161	6.4	19.2	5 31	15 46.58	-25 26.6	2.133	3.134	3.6	19.4
6 10	15 36.32	-14 29.4	1.195	2.160	11.2	19.5	6 10	15 38.37	-25 8.4	2.153	3.118	6.9	19.5
6 20	15 29.76	-15 4.4	1.248	2.160	15.7	19.7	6 20	15 31.61	-24 49.2	2.197	3.102	10.2	19.7
6 30	15 26.31	-15 48.5	1.320	2.160	19.5	20.0	6 30	15 26.87	-24 32.1	2.265	3.086	13.0	19.9
160147	2001 <i>KN</i> ₇₆		5 21.7 349°90	0°1/22.3	08 C		31484	1999 <i>CC</i> ₄₉		5 21.7 329°90	11°7/15.6	18	
4 21	15 57.37	-23 12.4	39.050	39.914	0.7	22.7	4 21	16 14.44	+ 6 10.3	1.547	2.413	15.2	17.4
5 1	15 56.59	-23 10.5	38.972	39.914	0.5	22.7	5 1	16 9.92	+ 7 19.3	1.479	2.390	13.2	17.2
5 11	15 55.75	-23 8.3	38.923	39.913	0.3	22.6	5 11	16 3.32	+ 8 9.5	1.433	2.368	11.9	17.1
5 21	15 54.87	-23 5.8	38.902	39.913	0.1	22.6	5 21	15 55.42	+ 8 33.4	1.409	2.347	12.0	17.0
5 31	15 53.99	-23 3.1	38.910	39.912	0.2	22.6	5 31	15 47.30	+ 8 26.0	1.406	2.327	13.5	17.1
6 10	15 53.13	-23 0.5	38.947	39.912	0.5	22.7	6 10	15 40.07	+ 7 46.1	1.424	2.308	15.8	17.1
6 20	15 52.34	-22 57.8	39.012	39.911	0.7	22.7	6 20	15 34.64	+ 6 36.5	1.460	2.289	18.5	17.3
6 30	15 51.64	-22 55.3	39.102	39.910	0.9	22.7	6 30	15 31.65	+ 5 2.2	1.512	2.272	21.0	17.4
156135	2001 <i>TD</i> ₃₈		5 21.7 165°00	2°8/23.5	18		156758	2002 <i>YS</i> ₂₁		5 21.7 235°36	1°1/22.2	18	
4 21	16 20.98	-30 54.5	2.094	2.947	12.3	19.7	4 21	16 22.47	-24 9.9	1.440	2.324	15.0	20.1
5 1	16 14.07	-30 29.8	2.022	2.951	9.1	19.5	5 1	16 15.87	-23 53.8	1.367	2.317	10.8	19.8
5 11	16 5.29	-29 51.1	1.975	2.955	5.7	19.3	5 11	16 6.59	-23 26.6	1.315	2.308	6.0	19.5
5 21	15 55.53	-28 59.1	1.954	2.959	3.0	19.1	5 21	15 55.66	-22 49.1	1.289	2.300	1.2	19.1
5 31	15 45.83	-27 56.7	1.963	2.962	4.1	19.2	5 31	15 44.53	-22 4.7	1.288	2.291	4.9	19.4
6 10	15 37.20	-26 48.9	1.999	2.964	7.4	19.4	6 10	15 34.68	-21 18.9	1.312	2.282	10.0	19.6
6 20	15 30.41	-25 41.4	2.061	2.966	10.7	19.6	6 20	15 27.23	-20 37.9	1.359	2.272	14.6	19.9
6 30	15 25.94	-24 39.3	2.145	2.967	13.6	19.8	6 30	15 22.89	-20 6.4	1.426	2.262	18.5	20.1
501805	2014 <i>WM</i> ₄₆		5 21.7 103°17	0°1/21.7	17								

EPHEMERIDES

5 21.7

5 21.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
241016	2006 <i>PY</i> ₄₃		5 21.7 302°68	3°6/19.7	16		355093	2006 <i>TL</i> ₁₂		5 21.8 155°73	3°0/23.5	18	
4 21	16 15.57	-12 58.8	1.849	2.739	11.9	20.5	4 21	16 20.25	-31 22.1	3.015	3.852	9.4	22.0
5 1	16 10.44	-12 7.8	1.772	2.725	8.6	20.3	5 1	16 13.24	-31 46.7	2.943	3.860	7.1	21.9
5 11	16 3.48	-11 16.4	1.720	2.711	5.2	20.1	5 11	16 4.81	-32 2.3	2.897	3.868	4.7	21.8
5 21	15 55.44	-10 28.5	1.694	2.697	3.6	19.9	5 21	15 55.57	-32 8.1	2.880	3.875	3.1	21.7
5 31	15 47.26	-9 48.5	1.695	2.684	6.1	20.1	5 31	15 46.27	-32 4.4	2.892	3.882	3.7	21.7
6 10	15 39.92	-9 20.0	1.722	2.670	9.7	20.2	6 10	15 37.66	-31 52.9	2.933	3.888	5.8	21.8
6 20	15 34.18	-9 5.2	1.771	2.657	13.2	20.4	6 20	15 30.34	-31 36.4	3.002	3.894	8.2	22.0
6 30	15 30.63	-9 5.1	1.840	2.644	16.2	20.6	6 30	15 24.77	-31 18.0	3.094	3.899	10.3	22.2
31706	Singhani		5 21.7 3°60	2°8/20.3	17		470490	2008 <i>BE</i> ₅₀		5 21.8 97°22	2°2/20.6	18	
4 21	16 15.15	-14 37.2	1.727	2.622	12.4	18.8	4 21	16 16.72	-14 12.9	2.256	3.137	10.4	21.3
5 1	16 10.14	-14 1.5	1.666	2.621	8.8	18.6	5 1	16 10.85	-13 51.6	2.199	3.148	7.4	21.1
5 11	16 3.29	-13 25.3	1.628	2.622	5.0	18.4	5 11	16 3.55	-13 30.7	2.168	3.160	4.2	21.0
5 21	15 55.43	-12 52.0	1.615	2.622	2.8	18.2	5 21	15 55.50	-13 12.1	2.164	3.171	2.2	20.8
5 31	15 47.53	-12 25.1	1.629	2.624	5.5	18.4	5 31	15 47.50	-12 58.1	2.189	3.182	4.4	21.0
6 10	15 40.61	-12 7.7	1.668	2.626	9.3	18.6	6 10	15 40.31	-12 50.6	2.241	3.193	7.5	21.2
6 20	15 35.42	-12 1.8	1.730	2.628	12.8	18.8	6 20	15 34.55	-12 50.9	2.317	3.204	10.5	21.4
6 30	15 32.47	-12 8.0	1.812	2.631	15.9	19.1	6 30	15 30.62	-12 59.5	2.416	3.215	13.0	21.6
474885	2005 <i>SU</i> ₁₆₈		5 21.7 214°75	1°8/20.4	16		151822	2003 <i>FW</i> ₉₈		5 21.8 74°10	2°9/20.6	17	
4 21	16 15.11	-16 6.9	2.596	3.474	9.3	22.2	4 21	16 19.98	-14 6.2	1.601	2.491	13.4	19.8
5 1	16 9.64	-15 23.1	2.520	3.470	6.6	22.0	5 1	16 13.49	-13 43.1	1.555	2.508	9.5	19.6
5 11	16 2.88	-14 37.3	2.472	3.464	3.6	21.8	5 11	16 5.05	-13 20.8	1.532	2.525	5.4	19.4
5 21	15 55.40	-13 51.8	2.451	3.459	1.9	21.7	5 21	15 55.60	-13 2.2	1.535	2.542	2.9	19.3
5 31	15 47.89	-13 9.5	2.460	3.453	4.0	21.8	5 31	15 46.31	-12 50.1	1.565	2.560	5.6	19.5
6 10	15 41.04	-12 33.2	2.497	3.447	7.0	22.0	6 10	15 38.25	-12 46.9	1.620	2.577	9.5	19.7
6 20	15 35.39	-12 5.3	2.559	3.441	9.8	22.2	6 20	15 32.19	-12 53.8	1.698	2.594	13.1	20.0
6 30	15 31.37	-11 46.9	2.643	3.434	12.2	22.3	6 30	15 28.60	-13 11.1	1.796	2.611	16.1	20.2
437026	2012 <i>TV</i> ₂₉₄		5 21.8 280°01	3°3/22.8	16		112707	2002 <i>PD</i> ₁₀₉		5 21.8 125°55	1°4/21.1	18	
4 21	16 22.01	-27 33.4	1.948	2.812	12.6	21.0	4 21	16 18.30	-16 58.0	2.041	2.922	11.3	19.9
5 1	16 15.27	-28 19.2	1.862	2.798	9.4	20.8	5 1	16 12.15	-16 44.4	1.978	2.928	8.0	19.7
5 11	16 6.22	-28 57.3	1.801	2.784	5.9	20.6	5 11	16 4.32	-16 29.1	1.940	2.934	4.3	19.5
5 21	15 55.66	-29 25.0	1.766	2.770	3.4	20.4	5 21	15 55.57	-16 13.6	1.929	2.939	1.4	19.3
5 31	15 44.69	-29 41.4	1.759	2.755	4.8	20.4	5 31	15 46.80	-16 0.1	1.946	2.944	4.2	19.5
6 10	15 34.55	-29 48.1	1.778	2.741	8.4	20.6	6 10	15 38.94	-15 51.1	1.990	2.949	7.8	19.7
6 20	15 26.26	-29 48.2	1.822	2.727	11.9	20.8	6 20	15 32.68	-15 48.4	2.059	2.954	11.2	19.9
6 30	15 20.56	-29 45.9	1.888	2.713	15.1	21.0	6 30	15 28.52	-15 53.3	2.149	2.959	14.0	20.1
225637	2001 <i>FL</i> ₆₀		5 21.8 353°74	8°8/17.6	18		471902	2013 <i>BL</i> ₆₂		5 21.8 136°55	3°5/19.5	18	
4 21	16 13.05	-3 25.8	1.322	2.222	15.0	18.5	4 21	16 15.29	-8 41.5	2.753	3.626	9.0	22.0
5 1	16 9.03	-2 10.3	1.268	2.215	11.9	18.3	5 1	16 9.64	-8 10.9	2.695	3.636	6.6	21.9
5 11	16 2.84	-1 6.1	1.236	2.209	9.4	18.1	5 11	16 2.85	-7 43.7	2.664	3.646	4.4	21.7
5 21	15 55.41	-0 20.7	1.225	2.204	9.0	18.1	5 21	15 55.47	-7 22.3	2.661	3.655	3.5	21.7
5 31	15 47.91	+0 0.0	1.238	2.201	11.0	18.2	5 31	15 48.12	-7 8.6	2.687	3.664	5.0	21.8
6 10	15 41.54	-0 6.1	1.272	2.199	14.2	18.3	6 10	15 41.42	-7 4.1	2.740	3.672	7.3	21.9
6 20	15 37.18	-0 37.9	1.324	2.199	17.5	18.5	6 20	15 35.85	-7 9.0	2.819	3.681	9.6	22.1
6 30	15 35.40	-1 31.7	1.394	2.200	20.4	18.7	6 30	15 31.78	-7 23.5	2.920	3.688	11.6	22.3
368706	2005 <i>SR</i> ₂₄₁		5 21.8 160°84	1°2/22.4	17		213206	2000 <i>TB</i> ₃₅		5 21.8 274°53	3°4/19.5	16	
4 21	16 20.66	-25 3.2	2.181	3.047	11.4	22.6	4 21	16 15.11	-12 11.9	2.233	3.117	10.4	20.8
5 1	16 13.76	-24 50.4	2.112	3.053	8.1	22.4	5 1	16 9.87	-11 18.7	2.155	3.104	7.5	20.6
5 11	16 5.13	-24 29.2	2.069	3.059	4.6	22.2	5 11	16 3.12	-10 25.7	2.102	3.090	4.7	20.4
5 21	15 55.57	-24 0.4	2.054	3.064	1.3	22.0	5 21	15 55.50	-9 36.1	2.077	3.077	3.5	20.3
5 31	15 46.02	-23 26.3	2.067	3.069	3.5	22.2	5 31	15 47.77	-8 53.8	2.079	3.064	5.5	20.4
6 10	15 37.42	-22 50.3	2.109	3.073	7.1	22.4	6 10	15 40.74	-8 21.9	2.108	3.050	8.6	20.5
6 20	15 30.49	-22 16.2	2.176	3.076	10.4	22.6	6 20	15 35.05	-8 2.4	2.162	3.036	11.6	20.7
6 30	15 25.71	-21 47.3	2.265	3.079	13.2	22.8	6 30	15 31.20	-7 56.0	2.236	3.023	14.2	20.9
65061	2002 <i>AS</i> ₁₇₉		5 21.8 88°29	2°4/23.1	18		263429	2008 <i>DO</i> ₆₇		5 21.8 134°60	2°7/19.9	18	
4 21	16 17.70	-28 14.2	2.296	3.157	11.0	19.8	4 21	16 15.07	-13 45.9	2.463	3.344	9.7	21.0
5 1	16 11.68	-28 18.2	2.229	3.164	8.1	19.6	5 1	16 9.62	-12 55.5	2.400	3.349	6.9	20.8
5 11	16 4.04	-28 12.7	2.187	3.171	5.0	19.4	5 11	16 2.88	-12 4.8	2.364	3.355	4.0	20.7
5 21	15 55.50	-27 57.9	2.172	3.178	2.5	19.3	5 21	15 55.48	-11 16.8	2.356	3.360	2.7	20.6
5 31	15 46.94	-27 35.1	2.185	3.185	3.7	19.4	5 31	15 48.10	-10 34.7	2.377	3.365	4.6	20.7
6 10	15 39.26	-27 7.2	2.226	3.192	6.8	19.6	6 10	15 41.45	-10 1.1	2.425	3.370	7.5	20.9
6 20	15 33.13	-26 37.8	2.292	3.198	9.7	19.8	6 20	15 36.07	-9 37.8	2.499	3.375	10.2	21.1
6 30	15 29.03	-26 10.5	2.381	3.205	12.4	20.0	6 30	15 32.36	-9 25.6	2.594	3.379	12.5	21.3
245149	2004 <i>RZ</i> ₃₃₁		5 21.8 228°50	1°2/21.3	16		64495	2001 <i>VB</i> ₆₃		5 21.8 108°86	3°4/23.3	18	
4 21	16 23.12	-17 23.8	1.614	2.497	13.7	21.3	4 21	16 23.90	-30 33.3	2.621	3.460	10.5	20.2
5 1	16 16.10	-17 23.0	1.537	2.489	9.7	21.1	5 1	16 15.94	-31 21.3	2.561	3.480	7.9	20.0
5 11	16 6.65	-17 20.1	1.485	2.480	5.3	20.8	5 11	16 6.31	-31 59.8	2.528	3.500	5.3	19.9
5 21	15 55.69	-17 16.0	1.458	2.470	1.2	20.5	5 21	15 55.73	-32 27.1	2.524	3.519	3.5	19.8
5 31	15 44.47	-17 12.8	1.459	2.459	5.0	20.7	5 31	15 45.10	-32 42.8	2.549	3.538	4.3	19.9
6 10	15 34.30	-17 13.1	1.486	2.448	9.7	20.9	6 10	15 35.33	-32 48.4	2.603	3.556	6.6	20.0
6 20	15 26.23	-17 19.2	1.536	2.437	13.9	21.2	6 20	15 27.11	-32 46.8	2.684	3.574	9.1	20.2
6 30	15 20.95	-17 33.3	1.606	2.425	17.5	21.4	6 30	15 20.97	-32 41.7	2.789	3.591	11.3	20.4
309958	2009 <i>HH</i> ₁₄		5 21.8 343°03	0°3/21.8	16		85552	1997 <i>YR</i> ₇		5 21.8 217°76	6°4/25.5	18	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
246376	2007 <i>TT</i> ₄₂₇		5 21.8 321°66	5°7/19.9	17		215124	1999 <i>RV</i> ₇₃		5 21.8 316°69	1°5/22.7	18	
4 21	16 17.52	-10 11.2	1.144	2.051	16.2	19.6	4 21	16 16.00	-27 42.9	1.818	2.694	12.8	18.9
5 1	16 12.76	-9 36.0	1.074	2.033	12.0	19.3	5 1	16 11.04	-26 54.8	1.721	2.666	9.4	18.6
5 11	16 5.14	-9 5.9	1.025	2.016	7.7	19.0	5 11	16 3.98	-25 51.3	1.647	2.638	5.5	18.3
5 21	15 55.66	-8 46.2	0.998	2.000	5.8	18.9	5 21	15 55.60	-24 33.8	1.600	2.610	1.7	18.0
5 31	15 45.80	-8 42.1	0.994	1.985	8.7	19.0	5 31	15 46.97	-23 6.5	1.579	2.583	4.1	18.1
6 10	15 37.15	-8 56.9	1.011	1.971	13.5	19.2	6 10	15 39.24	-21 36.1	1.585	2.556	8.5	18.3
6 20	15 30.96	-9 30.9	1.048	1.957	18.2	19.4	6 20	15 33.31	-20 9.7	1.616	2.529	12.6	18.5
6 30	15 28.07	-10 22.8	1.101	1.944	22.4	19.6	6 30	15 29.84	-18 53.4	1.667	2.503	16.3	18.7
478123	2011 <i>UF</i> ₁₀₅		5 21.8 243°86	1°0/22.2	18		18184	Dianepark		5 21.8 247°01	0°7/21.4	18	
4 21	16 18.06	-23 17.4	2.471	3.339	10.1	21.3	4 21	16 18.83	-19 53.6	1.794	2.678	12.5	18.9
5 1	16 11.95	-23 27.8	2.388	3.330	7.2	21.1	5 1	16 12.84	-19 28.2	1.721	2.672	8.9	18.6
5 11	16 4.25	-23 33.1	2.330	3.321	4.0	20.9	5 11	16 4.84	-18 57.3	1.671	2.666	4.7	18.3
5 21	15 55.59	-23 33.1	2.300	3.311	1.1	20.7	5 21	15 55.66	-18 22.9	1.648	2.659	0.8	18.0
5 31	15 46.77	-23 28.8	2.299	3.301	3.2	20.8	5 31	15 46.37	-17 48.1	1.652	2.653	4.4	18.3
6 10	15 38.62	-23 22.1	2.326	3.291	6.6	21.0	6 10	15 38.05	-17 16.9	1.682	2.646	8.7	18.5
6 20	15 31.83	-23 15.2	2.379	3.280	9.7	21.2	6 20	15 31.56	-16 52.7	1.736	2.639	12.5	18.7
6 30	15 26.91	-23 10.7	2.455	3.270	12.3	21.4	6 30	15 27.46	-16 38.2	1.811	2.632	15.8	19.0
346691	2008 <i>YA</i> ₁₁₄		5 21.8 213°64	0°7/21.4	17		387163	2012 <i>TE</i> ₂₄₅		5 21.8 240°74	1°6/21.0	17	
4 21	16 17.92	-19 23.1	2.147	3.026	11.0	21.6	4 21	16 18.30	-16 27.0	2.039	2.921	11.3	21.1
5 1	16 11.91	-19 6.6	2.073	3.022	7.7	21.4	5 1	16 12.27	-16 12.8	1.964	2.914	8.0	20.9
5 11	16 4.23	-18 46.1	2.024	3.018	4.1	21.2	5 11	16 4.48	-15 57.2	1.913	2.907	4.4	20.6
5 21	15 55.59	-18 23.1	2.003	3.014	0.7	20.9	5 21	15 55.64	-15 41.7	1.890	2.900	1.6	20.4
5 31	15 46.87	-18 0.0	2.009	3.010	3.8	21.2	5 31	15 46.68	-15 28.7	1.894	2.892	4.4	20.6
6 10	15 38.96	-17 39.4	2.044	3.006	7.5	21.4	6 10	15 38.53	-15 20.4	1.926	2.884	8.1	20.8
6 20	15 32.59	-17 24.1	2.103	3.001	10.9	21.6	6 20	15 31.95	-15 18.8	1.982	2.877	11.6	21.0
6 30	15 28.25	-17 15.9	2.184	2.996	13.7	21.8	6 30	15 27.50	-15 25.5	2.059	2.869	14.5	21.2
181818	1998 <i>RX</i> ₅₈		5 21.8 279°64	1°2/22.2	18		406841	2009 <i>AV</i> ₃₁		5 21.8 119°73	1°3/22.4	17	
4 21	16 21.01	-24 6.4	1.666	2.545	13.6	20.5	4 21	16 22.32	-25 2.6	1.457	2.339	15.0	21.0
5 1	16 14.83	-23 59.2	1.572	2.519	9.9	20.2	5 1	16 15.57	-24 43.3	1.398	2.347	10.8	20.8
5 11	16 6.13	-23 42.4	1.501	2.493	5.6	19.9	5 11	16 6.34	-24 12.3	1.361	2.354	6.0	20.5
5 21	15 55.74	-23 16.2	1.455	2.466	1.3	19.6	5 21	15 55.77	-23 31.0	1.350	2.361	1.5	20.2
5 31	15 44.89	-22 42.6	1.436	2.439	4.5	19.7	5 31	15 45.25	-22 43.2	1.364	2.368	4.6	20.4
6 10	15 34.93	-22 5.8	1.443	2.411	9.4	19.9	6 10	15 36.16	-21 54.6	1.404	2.374	9.4	20.7
6 20	15 26.99	-21 31.0	1.473	2.384	13.9	20.1	6 20	15 29.45	-21 11.1	1.467	2.380	13.7	21.0
6 30	15 21.87	-21 3.1	1.524	2.355	17.7	20.3	6 30	15 25.71	-20 37.2	1.549	2.386	17.3	21.3
126904	2002 <i>EN</i> ₁₁₁		5 21.8 17°61	6°5/23.4	17		358258	2006 <i>TL</i> ₃₆		5 21.8 101°29	2°9/19.4	17	
4 21	16 23.15	-32 10.3	1.437	2.304	16.1	18.6	4 21	16 16.23	-14 24.0	2.390	3.270	10.0	20.9
5 1	16 16.65	-33 29.9	1.378	2.308	12.5	18.4	5 1	16 10.38	-13 3.9	2.336	3.285	7.0	20.7
5 11	16 7.16	-34 35.2	1.341	2.313	8.9	18.2	5 11	16 3.27	-11 42.8	2.310	3.299	4.2	20.6
5 21	15 55.81	-35 21.0	1.327	2.319	6.6	18.0	5 21	15 55.54	-10 24.7	2.312	3.314	3.0	20.5
5 31	15 44.18	-35 45.0	1.338	2.325	7.5	18.1	5 31	15 47.95	-9 14.1	2.344	3.328	5.0	20.7
6 10	15 33.94	-35 49.5	1.373	2.333	10.6	18.3	6 10	15 41.18	-8 14.5	2.403	3.342	7.8	20.9
6 20	15 26.36	-35 40.5	1.430	2.341	14.2	18.5	6 20	15 35.75	-7 28.2	2.488	3.356	10.5	21.1
6 30	15 22.21	-35 24.9	1.507	2.349	17.4	18.8	6 30	15 32.04	-6 56.1	2.595	3.369	12.8	21.3
122530	2000 <i>QP</i> ₂₁₁		5 21.8 219°47	2°7/20.2	18		178560	1999 <i>VS</i> ₁₄₃		5 21.8 212°92	0°5/22.1	17	
4 21	16 18.54	-13 26.9	2.291	3.168	10.4	21.7	4 21	16 21.50	-23 27.6	2.029	2.899	11.9	21.2
5 1	16 12.26	-12 51.9	2.211	3.158	7.5	21.5	5 1	16 14.60	-23 4.7	1.948	2.892	8.5	20.9
5 11	16 4.39	-12 16.7	2.158	3.148	4.4	21.2	5 11	16 5.74	-22 33.4	1.891	2.883	4.7	20.7
5 21	15 55.61	-11 43.8	2.132	3.137	2.7	21.1	5 21	15 55.74	-21 54.8	1.862	2.874	0.7	20.4
5 31	15 46.72	-11 16.1	2.136	3.126	4.9	21.2	5 31	15 45.61	-21 11.8	1.862	2.864	3.8	20.6
6 10	15 38.55	-10 56.3	2.167	3.113	8.1	21.4	6 10	15 36.41	-20 28.4	1.889	2.853	7.9	20.8
6 20	15 31.78	-10 46.1	2.223	3.100	11.2	21.6	6 20	15 28.95	-19 48.7	1.942	2.841	11.6	21.0
6 30	15 26.92	-10 46.6	2.301	3.087	13.9	21.8	6 30	15 23.81	-19 16.6	2.016	2.829	14.7	21.2
430626	2003 <i>QH</i> ₈		5 21.8 322°91	9°6/15.9	17		51436	2001 <i>FD</i> ₂₁		5 21.8 267°84	2°6/20.8	18	
4 21	16 13.77	-2 48.8	1.384	2.279	14.8	19.8	4 21	16 19.63	-12 36.5	2.078	2.957	11.3	18.6
5 1	16 9.71	-1 6.8	1.310	2.252	11.9	19.6	5 1	16 13.28	-12 37.7	1.993	2.941	8.1	18.4
5 11	16 3.36	+ 0 27.8	1.258	2.226	9.9	19.4	5 11	16 5.07	-12 41.3	1.933	2.923	4.7	18.2
5 21	15 55.55	+ 1 45.8	1.228	2.200	9.9	19.3	5 21	15 55.70	-12 48.7	1.899	2.906	2.6	18.0
5 31	15 47.42	+ 2 38.5	1.222	2.175	12.2	19.4	5 31	15 46.08	-13 1.4	1.895	2.888	4.9	18.1
6 10	15 40.21	+ 3 0.8	1.236	2.151	15.5	19.5	6 10	15 37.15	-13 20.6	1.917	2.871	8.5	18.3
6 20	15 34.94	+ 2 52.2	1.269	2.127	19.0	19.6	6 20	15 29.75	-13 47.0	1.964	2.853	12.0	18.5
6 30	15 32.34	+ 2 15.0	1.317	2.105	22.2	19.8	6 30	15 24.46	-14 21.1	2.033	2.834	15.0	18.6
156365	2001 <i>XD</i> ₂₃₅		5 21.8 100°64	2°2/22.9	17		33598	Christineliu		5 21.8 333°42	3°4/20.1	18	
4 21	16 20.05	-28 14.3	1.749	2.620	13.5	20.2	4 21	16 15.68	-15 6.7	1.398	2.300	14.2	17.6
5 1	16 13.67	-27 48.6	1.687	2.627	9.8	20.0	5 1	16 10.99	-14 14.1	1.330	2.289	10.1	17.4
5 11	16 5.22	-27 9.6	1.647	2.635	5.8	19.7	5 11	16 4.00	-13 19.0	1.284	2.279	5.8	17.1
5 21	15 55.67	-26 18.5	1.634	2.642	2.4	19.5	5 21	15 55.62	-12 26.0	1.262	2.269	3.5	16.9
5 31	15 46.20	-25 19.0	1.648	2.650	4.2	19.7	5 31	15 47.10	-11 40.9	1.265	2.260	6.6	17.1
6 10	15 37.95	-24 16.6	1.688	2.657	8.2	19.9	6 10	15 39.68	-11 8.7	1.292	2.252	11.1	17.3
6 20	15 31.74	-23 17.2	1.752	2.664	11.9	20.2	6 20	15 34.35	-10 52.3	1.340	2.244	15.3	17.5
6 30	15 28.07	-22 25.7	1.838	2.671	15.1	20.4	6 30	15 31.73	-10 53.0	1.405	2.238	19.0	17.8
41647	2000 <i>ST</i> ₂₇₅		5 21.8 92°33	4°6/19.4	18		130956	2000 <i>WE</i> ₉₅		5			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
52420	1994 JX ₁		5 21.8	58°26	3°1/23.0	18	215397	2002 CT ₂₉₂		5 21.8	237°74	5°9/17.6	18
4 21	16 20.40	-28 6.7	1.981	2.845	12.4	18.8	4 21	16 14.91	-1 30.0	2.617	3.480	9.8	20.7
5 1	16 13.90	-28 38.6	1.917	2.852	9.2	18.6	5 1	16 9.54	-0 38.8	2.546	3.469	7.8	20.6
5 11	16 5.39	-29 1.0	1.876	2.859	5.8	18.4	5 11	16 2.92	+0 5.0	2.500	3.458	6.2	20.5
5 21	15 55.73	-29 12.5	1.862	2.866	3.2	18.3	5 21	15 55.58	+0 38.0	2.482	3.447	6.0	20.4
5 31	15 45.97	-29 13.4	1.875	2.873	4.5	18.3	5 31	15 48.17	+0 57.3	2.491	3.435	7.2	20.5
6 10	15 37.21	-29 6.1	1.916	2.880	7.7	18.6	6 10	15 41.34	+1 1.3	2.526	3.423	9.3	20.6
6 20	15 30.29	-28 54.3	1.980	2.888	11.0	18.8	6 20	15 35.64	+0 50.2	2.584	3.411	11.4	20.7
6 30	15 25.78	-28 42.0	2.067	2.895	13.8	19.0	6 30	15 31.50	+0 24.9	2.663	3.398	13.4	20.9
428688	2008 LR ₉		5 21.8	309°65	10°3/17.1	17	462791	2010 NG ₂₈		5 21.8	337°51	2°1/20.9	17
4 21	16 17.41	+1 38.6	1.457	2.335	15.3	20.4	4 21	16 13.17	-19 30.3	1.002	1.920	17.0	20.4
5 1	16 12.23	+2 40.7	1.384	2.311	12.7	20.2	5 1	16 9.97	-18 36.9	0.934	1.902	12.1	20.1
5 11	16 4.71	+3 27.9	1.332	2.288	10.7	20.0	5 11	16 3.78	-17 32.7	0.886	1.885	6.5	19.7
5 21	15 55.69	+3 52.5	1.302	2.265	10.5	19.9	5 21	15 55.66	-16 23.0	0.859	1.870	2.1	19.4
5 31	15 46.34	+3 49.0	1.296	2.242	12.3	20.0	5 31	15 47.21	-15 15.9	0.853	1.856	6.8	19.6
6 10	15 37.91	+3 15.6	1.311	2.219	15.3	20.1	6 10	15 40.14	-14 20.1	0.869	1.844	12.8	19.9
6 20	15 31.43	+2 14.3	1.345	2.197	18.5	20.2	6 20	15 35.76	-13 42.1	0.902	1.834	18.2	20.1
6 30	15 27.64	+0 49.5	1.395	2.176	21.5	20.4	6 30	15 34.86	-13 25.2	0.952	1.825	22.8	20.4
46123	2001 FW ₃₇		5 21.8	58°80	8°6/16.0	18	475123	2005 UH ₂₈₉		5 21.8	240°81	0°6/22.2	17
4 21	16 15.73	-0 20.8	1.831	2.706	12.8	18.6	4 21	16 16.06	-24 5.6	2.492	3.361	10.0	21.6
5 1	16 10.40	+1 19.5	1.783	2.708	10.4	18.5	5 1	16 10.49	-23 38.6	2.411	3.355	7.1	21.4
5 11	16 3.43	+2 48.6	1.759	2.712	8.8	18.4	5 11	16 3.46	-23 4.3	2.356	3.347	3.9	21.1
5 21	15 55.59	+4 0.0	1.759	2.715	8.8	18.4	5 21	15 55.62	-22 24.1	2.329	3.340	0.7	20.9
5 31	15 47.79	+4 48.4	1.785	2.718	10.4	18.5	5 31	15 47.72	-21 40.5	2.330	3.333	3.1	21.1
6 10	15 40.91	+5 11.7	1.834	2.721	12.7	18.6	6 10	15 40.54	-20 56.6	2.360	3.325	6.5	21.3
6 20	15 35.64	+5 10.5	1.904	2.724	15.1	18.8	6 20	15 34.69	-20 15.8	2.416	3.318	9.5	21.4
6 30	15 32.44	+4 47.5	1.991	2.728	17.3	19.0	6 30	15 30.63	-19 41.0	2.495	3.310	12.1	21.6
413861	2006 UY ₅₀		5 21.8	281°18	0°7/22.3	15	255638	2006 QN ₆		5 21.8	281°29	1°1/21.3	17
4 21	16 13.78	-23 46.4	3.223	4.089	8.1	22.1	4 21	16 20.03	-19 7.6	1.519	2.409	14.0	20.9
5 1	16 8.71	-23 37.2	3.125	4.067	5.8	21.9	5 1	16 14.17	-18 45.9	1.435	2.390	10.0	20.6
5 11	16 2.47	-23 23.1	3.054	4.044	3.2	21.7	5 11	16 5.80	-18 18.5	1.375	2.371	5.4	20.3
5 21	15 55.52	-23 4.5	3.011	4.022	0.8	21.4	5 21	15 55.81	-17 47.4	1.340	2.351	1.1	20.0
5 31	15 48.45	-22 42.8	2.997	3.999	2.6	21.6	5 31	15 45.47	-17 16.1	1.330	2.332	5.2	20.2
6 10	15 41.83	-22 19.7	3.013	3.977	5.3	21.7	6 10	15 36.12	-16 49.0	1.346	2.312	10.2	20.4
6 20	15 36.18	-21 57.5	3.055	3.954	7.8	21.9	6 20	15 28.88	-16 30.3	1.384	2.292	14.7	20.6
6 30	15 31.92	-21 38.2	3.121	3.931	10.1	22.0	6 30	15 24.50	-16 22.9	1.441	2.273	18.6	20.8
105828	2000 SR ₁₄₆		5 21.8	253°65	2°6/19.9	18	140098	2001 SP ₁₃₀		5 21.8	178°66	4°3/23.9	18
4 21	16 15.41	-14 10.8	2.417	3.298	9.8	20.0	4 21	16 20.13	-33 16.9	2.211	3.055	12.0	20.0
5 1	16 10.02	-13 21.4	2.336	3.285	7.0	19.8	5 1	16 13.67	-33 39.5	2.137	3.056	9.3	19.8
5 11	16 3.21	-12 30.5	2.281	3.272	4.1	19.6	5 11	16 5.29	-33 49.2	2.087	3.056	6.5	19.6
5 21	15 55.58	-11 41.3	2.255	3.259	2.6	19.5	5 21	15 55.77	-33 44.8	2.063	3.056	4.5	19.5
5 31	15 47.86	-10 57.1	2.257	3.246	4.7	19.6	5 31	15 46.13	-33 26.6	2.067	3.056	5.1	19.5
6 10	15 40.80	-10 20.9	2.286	3.233	7.8	19.8	6 10	15 37.42	-32 57.6	2.097	3.056	7.6	19.7
6 20	15 35.01	-9 55.0	2.341	3.219	10.7	20.0	6 20	15 30.45	-32 22.3	2.153	3.056	10.4	19.9
6 30	15 30.95	-9 40.6	2.417	3.205	13.3	20.1	6 30	15 25.79	-31 45.4	2.231	3.055	13.1	20.0
297479	2000 TB ₆₁		5 21.8	196°42	1°1/22.4	18	481987	2009 MY ₁		5 21.8	195°00	6°3/14.5	18
4 21	16 19.02	-23 57.1	3.039	3.897	8.7	21.5	4 21	16 9.73	+13 32.5	4.364	5.157	7.5	20.7
5 1	16 12.39	-24 14.6	2.957	3.894	6.3	21.3	5 1	16 5.54	+14 5.8	4.316	5.157	6.8	20.6
5 11	16 4.42	-24 27.5	2.902	3.890	3.6	21.1	5 11	16 0.66	+14 28.5	4.292	5.157	6.4	20.6
5 21	15 55.67	-24 35.4	2.876	3.885	1.2	20.9	5 21	15 55.42	+14 38.8	4.293	5.156	6.4	20.6
5 31	15 46.80	-24 38.8	2.880	3.881	2.8	21.0	5 31	15 50.19	+14 35.5	4.319	5.156	6.9	20.7
6 10	15 38.49	-24 39.1	2.914	3.875	5.6	21.2	6 10	15 45.33	+14 18.7	4.368	5.156	7.7	20.7
6 20	15 31.33	-24 37.9	2.975	3.869	8.2	21.4	6 20	15 41.12	+13 49.0	4.438	5.156	8.6	20.8
6 30	15 25.76	-24 37.5	3.061	3.863	10.4	21.5	6 30	15 37.84	+13 7.9	4.528	5.155	9.5	20.9
22357	1992 YJ		5 21.8	272°59	5°3/25.1	18 R	222568	2001 VR ₈₅		5 21.8	129°71	1°1/22.4	17
4 21	16 24.14	-38 5.5	2.106	2.930	13.3	18.3	4 21	16 20.52	-24 50.2	1.908	2.781	12.4	20.8
5 1	16 16.82	-37 44.3	1.996	2.899	10.7	18.1	5 1	16 13.86	-24 30.3	1.846	2.790	8.9	20.6
5 11	16 7.10	-37 2.2	1.909	2.868	7.8	17.8	5 11	16 5.33	-24 1.3	1.808	2.800	4.9	20.3
5 21	15 55.88	-35 57.0	1.848	2.835	5.6	17.6	5 21	15 55.79	-23 24.3	1.798	2.809	1.2	20.1
5 31	15 44.37	-34 30.1	1.815	2.802	5.9	17.6	5 31	15 46.31	-22 42.4	1.815	2.817	3.8	20.3
6 10	15 33.87	-32 47.0	1.810	2.769	8.6	17.7	6 10	15 37.92	-21 59.7	1.859	2.825	7.8	20.6
6 20	15 25.40	-30 55.8	1.832	2.734	12.0	17.8	6 20	15 31.39	-21 20.6	1.928	2.833	11.3	20.8
6 30	15 19.66	-29 5.4	1.877	2.699	15.2	18.0	6 30	15 27.21	-20 48.5	2.018	2.841	14.3	21.0
23979	1999 JL ₈₂		5 21.8	278°47	5°0/19.9	18	350826	2002 ET ₅₁		5 21.8	110°52	6°1/25.7	18
4 21	16 20.42	-7 29.8	1.814	2.694	12.6	17.8	4 21	16 22.14	-41 21.9	2.617	3.416	11.7	21.1
5 1	16 14.07	-7 15.2	1.728	2.671	9.5	17.5	5 1	16 14.92	-41 54.3	2.554	3.431	9.6	20.9
5 11	16 5.61	-7 7.1	1.666	2.648	6.4	17.3	5 11	16 5.88	-42 10.8	2.514	3.445	7.6	20.8
5 21	15 55.78	-7 8.8	1.629	2.625	5.0	17.2	5 21	15 55.83	-42 9.3	2.500	3.459	6.3	20.8
5 31	15 45.59	-7 22.7	1.620	2.602	7.1	17.2	5 31	15 45.77	-41 50.1	2.513	3.473	6.3	20.8
6 10	15 36.17	-7 50.2	1.636	2.578	10.6	17.4	6 10	15 36.69	-41 16.0	2.553	3.486	7.7	20.9
6 20	15 28.43	-8 31.1	1.676	2.554	14.2	17.6	6 20	15 29.36	-40 31.6	2.618	3.500	9.6	21.0
6 30	15 23.07	-9 24.3	1.736	2.530	17.4	17.7	6 30	15 24.27	-39 42.1	2.706	3.512	11.5	21.2
184235	2004 RR ₁₈₆		5 21.8	332°97	1°9/22.6	17	368668	2005 JF ₁₆₄		5 21.8	29°02	1°4/21.3	17
4 21	16 16.87	-25 19.5	1.932	2.80									

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
499619	2010 UC ₅₂		5 21.8 263°25	0°1/21.8 17			33163	1998 EH		5 21.8 201°41	0°5/22.1 18		
4 21	16 21.38	-20 45.6	1.595	2.479	13.8	21.4	4 21	16 19.93	-23 7.9	2.346	3.213	10.6	20.1
5 1	16 15.03	-20 43.1	1.514	2.466	9.9	21.1	5 1	16 13.30	-22 49.4	2.266	3.209	7.6	19.9
5 11	16 6.24	-20 34.8	1.457	2.452	5.3	20.8	5 11	16 5.02	-22 24.1	2.212	3.204	4.1	19.6
5 21	15 55.88	-20 21.5	1.426	2.438	0.4	20.4	5 21	15 55.80	-21 53.0	2.186	3.198	0.6	19.3
5 31	15 45.20	-20 5.3	1.421	2.424	4.6	20.7	5 31	15 46.51	-21 18.2	2.189	3.191	3.4	19.6
6 10	15 35.55	-19 49.5	1.442	2.409	9.5	20.9	6 10	15 38.01	-20 43.1	2.221	3.184	6.9	19.8
6 20	15 27.99	-19 38.0	1.486	2.394	13.8	21.1	6 20	15 31.00	-20 10.9	2.279	3.176	10.2	20.0
6 30	15 23.24	-19 33.9	1.549	2.380	17.6	21.4	6 30	15 25.98	-19 44.5	2.359	3.167	13.0	20.1
302252	2001 XK ₇₀		5 21.8 199°46	1°2/21.2 18			501732	2014 UZ ₈₄		5 21.8 26°09	0°9/21.3 17		
4 21	16 18.00	-16 29.9	2.362	3.239	10.2	20.9	4 21	16 18.78	-21 10.9	1.362	2.257	15.0	20.7
5 1	16 11.89	-16 29.7	2.289	3.237	7.2	20.7	5 1	16 13.17	-20 20.6	1.303	2.260	10.6	20.4
5 11	16 4.25	-16 28.5	2.242	3.236	3.9	20.5	5 11	16 5.16	-19 21.1	1.266	2.263	5.6	20.1
5 21	15 55.73	-16 27.5	2.223	3.234	1.2	20.3	5 21	15 55.82	-18 16.4	1.254	2.266	0.9	19.8
5 31	15 47.12	-16 27.9	2.233	3.231	3.7	20.4	5 31	15 46.51	-17 12.4	1.267	2.269	5.2	20.1
6 10	15 39.23	-16 31.4	2.270	3.229	7.1	20.6	6 10	15 38.56	-16 15.6	1.305	2.273	10.2	20.4
6 20	15 32.71	-16 39.3	2.333	3.226	10.1	20.8	6 20	15 32.91	-15 31.1	1.364	2.277	14.6	20.7
6 30	15 28.05	-16 52.7	2.419	3.223	12.8	21.0	6 30	15 30.12	-15 2.0	1.442	2.281	18.2	20.9
170417	2003 UF ₅₄		5 21.8 273°55	0°9/22.3 18			94950	2001 YJ ₈₆		5 21.8 228°86	1°0/21.4 17		
4 21	16 18.28	-25 41.9	1.965	2.838	12.1	19.5	4 21	16 21.76	-18 50.4	1.495	2.384	14.3	19.9
5 1	16 12.45	-24 57.7	1.877	2.821	8.7	19.2	5 1	16 15.28	-18 36.1	1.426	2.379	10.1	19.6
5 11	16 4.68	-24 1.6	1.813	2.805	4.9	18.9	5 11	16 6.34	-18 17.3	1.379	2.374	5.4	19.3
5 21	15 55.76	-22 55.4	1.777	2.788	1.1	18.6	5 21	15 55.92	-17 55.7	1.357	2.369	1.0	19.0
5 31	15 46.70	-21 42.9	1.768	2.771	3.9	18.8	5 31	15 45.33	-17 34.3	1.362	2.364	5.1	19.3
6 10	15 38.54	-20 29.8	1.787	2.754	8.0	19.0	6 10	15 35.92	-17 17.0	1.392	2.358	9.9	19.5
6 20	15 32.10	-19 21.7	1.831	2.737	11.8	19.2	6 20	15 28.72	-17 7.1	1.445	2.352	14.3	19.8
6 30	15 27.97	-18 23.2	1.896	2.719	15.1	19.4	6 30	15 24.40	-17 7.1	1.517	2.346	17.9	20.0
271641	2004 PF ₉₈		5 21.8 263°83	0°1/21.8 18			125669	2001 XQ ₇₇		5 21.8 146°83	2°0/21.1 18		
4 21	16 20.97	-20 25.4	1.885	2.763	12.3	20.5	4 21	16 22.12	-16 47.6	1.477	2.367	14.4	20.4
5 1	16 14.50	-20 33.3	1.798	2.746	8.8	20.3	5 1	16 15.39	-16 26.2	1.418	2.372	10.2	20.2
5 11	16 5.88	-20 37.2	1.735	2.729	4.8	20.0	5 11	16 6.32	-16 2.5	1.381	2.376	5.5	19.9
5 21	15 55.86	-20 37.2	1.699	2.711	0.4	19.6	5 21	15 55.91	-15 38.8	1.369	2.380	2.0	19.7
5 31	15 45.52	-20 34.4	1.691	2.693	4.1	19.9	5 31	15 45.49	-15 18.5	1.384	2.383	5.5	19.9
6 10	15 35.99	-20 31.3	1.709	2.675	8.4	20.1	6 10	15 36.34	-15 5.1	1.424	2.386	10.1	20.2
6 20	15 28.22	-20 30.4	1.752	2.656	12.4	20.3	6 20	15 29.41	-15 1.3	1.486	2.389	14.2	20.5
6 30	15 22.90	-20 34.6	1.816	2.637	15.8	20.5	6 30	15 25.30	-15 8.6	1.568	2.392	17.7	20.7
475056	2005 UH ₁₀₄		5 21.8 241°66	0°3/21.6 18			117284	2004 TA ₁₇₀		5 21.8 244°60	1°4/21.1 18		
4 21	16 16.85	-19 48.6	2.665	3.537	9.3	22.0	4 21	16 19.32	-17 11.0	2.139	3.017	11.0	20.3
5 1	16 11.02	-19 43.6	2.579	3.525	6.6	21.8	5 1	16 13.05	-16 51.1	2.052	3.001	7.8	20.1
5 11	16 3.78	-19 35.4	2.520	3.513	3.5	21.6	5 11	16 4.98	-16 28.5	1.991	2.985	4.3	19.9
5 21	15 55.70	-19 24.8	2.488	3.500	0.3	21.3	5 21	15 55.82	-16 4.9	1.958	2.968	1.4	19.6
5 31	15 47.48	-19 13.2	2.486	3.487	3.1	21.5	5 31	15 46.45	-15 42.8	1.953	2.951	4.3	19.8
6 10	15 39.85	-19 2.5	2.513	3.474	6.3	21.7	6 10	15 37.82	-15 25.1	1.976	2.933	8.0	20.0
6 20	15 33.43	-18 54.6	2.565	3.460	9.3	21.9	6 20	15 30.71	-15 14.0	2.023	2.915	11.5	20.2
6 30	15 28.69	-18 51.4	2.641	3.447	11.8	22.0	6 30	15 25.67	-15 11.4	2.092	2.896	14.5	20.3
456110	2006 BF ₂₈₄		5 21.8 319°27	0°8/22.6 18			233778	2008 TK ₁₆₄		5 21.8 159°92	4°5/17.3 18		
4 21	16 10.55	-25 3.8	4.161	5.022	6.5	21.2	4 21	16 11.38	+ 1 6.3	4.010	4.858	7.0	21.9
5 1	16 6.22	-24 57.9	4.082	5.020	4.7	21.1	5 1	16 6.72	+ 1 43.0	3.955	4.864	5.7	21.8
5 11	16 1.08	-24 48.0	4.029	5.018	2.7	20.9	5 11	16 1.32	+ 2 13.1	3.926	4.869	4.7	21.7
5 21	15 55.49	-24 34.3	4.006	5.016	0.9	20.8	5 21	15 55.54	+ 2 34.8	3.925	4.874	4.6	21.7
5 31	15 49.87	-24 17.9	4.012	5.014	2.0	20.9	5 31	15 49.76	+ 2 46.7	3.952	4.879	5.4	21.8
6 10	15 44.64	-24 0.2	4.047	5.012	4.0	21.0	6 10	15 44.39	+ 2 48.0	4.006	4.883	6.6	21.9
6 20	15 40.15	-23 42.5	4.110	5.010	6.0	21.1	6 20	15 39.74	+ 2 38.9	4.085	4.887	8.0	22.0
6 30	15 36.71	-23 26.4	4.197	5.008	7.7	21.3	6 30	15 36.08	+ 2 20.1	4.185	4.891	9.3	22.1
382428	1999 CR ₁₁		5 21.8 91°92	8°3/27.9 17			499451	2010 EB ₈₆		5 21.8 152°38	7°1/17.9 17		
4 21	16 25.45	-47 20.7	2.241	3.014	14.2	21.0	4 21	16 17.22	- 1 35.8	2.016	2.886	12.0	21.3
5 1	16 17.52	-47 44.1	2.183	3.033	12.1	20.8	5 1	16 11.38	- 0 37.5	1.961	2.889	9.5	21.2
5 11	16 7.32	-47 44.7	2.147	3.052	10.1	20.7	5 11	16 3.98	+ 0 11.0	1.932	2.893	7.5	21.1
5 21	15 55.95	-47 20.1	2.135	3.070	8.7	20.7	5 21	15 55.74	+ 0 45.0	1.928	2.896	7.2	21.1
5 31	15 44.77	-46 30.9	2.147	3.089	8.4	20.7	5 31	15 47.52	+ 1 1.3	1.950	2.898	8.6	21.2
6 10	15 35.04	-45 21.9	2.186	3.107	9.4	20.8	6 10	15 40.16	+ 0 58.5	1.997	2.901	11.0	21.3
6 20	15 27.63	-44 0.1	2.248	3.124	11.1	20.9	6 20	15 34.32	+ 0 37.3	2.066	2.903	13.5	21.5
6 30	15 23.05	-42 33.0	2.333	3.142	13.1	21.1	6 30	15 30.44	- 0 0.0	2.154	2.906	15.7	21.6
40101	1998 QX		5 21.8 297°62	17°4/28.8 18			120454	1988 SJ ₂		5 21.8 306°76	3°5/18.0 18		
4 21	16 16.42	+27 44.8	1.898	2.636	17.5	18.8	4 21	16 8.88	- 3 43.3	4.194	5.059	6.4	19.7
5 1	16 11.26	+30 9.3	1.860	2.615	17.4	18.8	5 1	16 5.00	- 3 8.1	4.127	5.056	4.9	19.6
5 11	16 4.10	+32 3.1	1.841	2.593	17.7	18.7	5 11	16 0.43	- 2 37.0	4.088	5.052	3.8	19.5
5 21	15 55.73	+33 18.2	1.838	2.572	18.4	18.7	5 21	15 55.49	- 2 11.9	4.076	5.049	3.6	19.5
5 31	15 47.16	+33 50.3	1.850	2.551	19.4	18.7	5 31	15 50.52	- 1 54.1	4.093	5.045	4.4	19.6
6 10	15 39.46	+33 39.5	1.875	2.529	20.5	18.8	6 10	15 45.90	- 1 44.7	4.137	5.042	5.8	19.7
6 20	15 33.48	+32 49.5	1.912	2.508	21.7	18.9	6 20	15 41.93	- 1 43.9	4.207	5.039	7.3	19.8
6 30	15 29.85	+31 26.1	1.957	2.487	22.7	18.9	6 30	15 38.87	- 1 51.6	4.298	5.035	8.6	19.9
141778	2002 NE ₁₀		5 21.8 324°73	1°1/22.2 17			386121	2007 RC ₂₆₂		5 21.8 234°78	2°6/22.9 17		
4 21	16 16.69	-2											

EPHEMERIDES

5 21.8

5 21.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
472204	2014 <i>EY</i> ₁₅		5 21.8 125°10	1.2°/21.1	17		174504	2003 <i>BD</i> ₅₅		5 21.8 162°78	2°1°/20.8	18	
4 21	16 17.41	-17 31.7	2.362	3.239	10.2	22.2	4 21	16 17.13	-14 38.1	2.197	3.078	10.7	20.3
5 1	16 11.38	-17 10.7	2.301	3.250	7.1	22.0	5 1	16 11.34	-14 22.3	2.130	3.079	7.5	20.1
5 11	16 3.95	-16 47.4	2.266	3.260	3.8	21.8	5 11	16 4.00	-14 6.7	2.087	3.080	4.2	19.9
5 21	15 55.76	-16 23.7	2.259	3.270	1.2	21.6	5 21	15 55.80	-13 52.9	2.073	3.081	2.1	19.8
5 31	15 47.61	-16 1.7	2.281	3.279	3.7	21.8	5 31	15 47.54	-13 43.1	2.086	3.081	4.4	19.9
6 10	15 40.26	-15 43.8	2.330	3.288	7.0	22.0	6 10	15 40.07	-13 39.3	2.127	3.082	7.7	20.1
6 20	15 34.30	-15 31.9	2.406	3.297	9.9	22.2	6 20	15 34.03	-13 42.7	2.192	3.082	10.8	20.3
6 30	15 30.16	-15 27.4	2.503	3.306	12.4	22.4	6 30	15 29.91	-13 54.2	2.279	3.083	13.5	20.5
497189	2004 <i>TJ</i> ₁₁₃		5 21.8 197°48	1°0°/21.2	17		336344	2008 <i>TY</i> ₁₁₇		5 21.8 300°94	0°6°/21.5	17	
4 21	16 18.70	-18 59.9	2.240	3.116	10.7	22.3	4 21	16 18.54	-20 54.0	1.634	2.521	13.3	20.7
5 1	16 12.44	-18 29.6	2.166	3.114	7.5	22.1	5 1	16 13.16	-20 22.1	1.535	2.488	9.6	20.4
5 11	16 4.58	-17 55.1	2.117	3.111	4.0	21.9	5 11	16 5.36	-19 41.6	1.459	2.455	5.2	20.1
5 21	15 55.82	-17 18.4	2.096	3.107	1.0	21.6	5 21	15 55.92	-18 54.2	1.409	2.421	0.7	19.7
5 31	15 47.00	-16 42.3	2.103	3.103	3.9	21.8	5 31	15 45.98	-18 3.8	1.385	2.387	4.9	19.9
6 10	15 38.98	-16 10.0	2.139	3.098	7.4	22.0	6 10	15 36.85	-17 15.8	1.387	2.353	9.8	20.1
6 20	15 32.45	-15 44.2	2.200	3.093	10.7	22.2	6 20	15 29.63	-16 35.2	1.411	2.320	14.5	20.3
6 30	15 27.89	-15 27.0	2.283	3.087	13.5	22.4	6 30	15 25.12	-16 6.5	1.455	2.286	18.5	20.5
57700	2001 <i>US</i> ₉₃		5 21.8 161°40	3°4°/20.1	18		268453	2005 <i>WA</i> ₇₂		5 21.8 185°32	5°1°/24.8	17	
4 21	16 17.17	-10 5.2	2.258	3.136	10.5	19.6	4 21	16 22.47	-36 12.2	1.944	2.782	13.7	20.5
5 1	16 11.29	-9 47.7	2.192	3.138	7.6	19.4	5 1	16 15.52	-36 5.6	1.870	2.782	10.7	20.3
5 11	16 3.94	-9 33.8	2.153	3.139	4.8	19.3	5 11	16 6.37	-35 40.5	1.817	2.782	7.6	20.1
5 21	15 55.77	-9 25.4	2.140	3.140	3.5	19.2	5 21	15 55.98	-34 56.0	1.791	2.781	5.3	19.9
5 31	15 47.56	-9 24.6	2.156	3.141	5.3	19.3	5 31	15 45.58	-33 54.0	1.791	2.780	5.7	19.9
6 10	15 40.10	-9 32.8	2.199	3.143	8.2	19.5	6 10	15 36.40	-32 39.9	1.818	2.779	8.4	20.1
6 20	15 34.02	-9 50.4	2.266	3.143	11.0	19.7	6 20	15 29.32	-31 20.8	1.871	2.778	11.5	20.3
6 30	15 29.79	-10 17.1	2.355	3.144	13.5	19.8	6 30	15 24.90	-30 3.8	1.945	2.776	14.5	20.5
437718	2014 <i>DW</i> ₁₀₃		5 21.8 279°47	1°5°/21.0	16		482100	2010 <i>MR</i> ₂₈		5 21.8 280°03	5°3°/18.4	18	
4 21	16 16.94	-17 2.8	2.070	2.953	11.1	21.2	4 21	16 15.37	-5 22.8	2.361	3.235	10.3	21.3
5 1	16 11.38	-16 42.0	1.992	2.943	7.9	21.0	5 1	16 10.11	-4 33.8	2.277	3.213	7.9	21.1
5 11	16 4.10	-16 18.8	1.938	2.933	4.3	20.8	5 11	16 3.38	-3 49.7	2.219	3.191	5.9	20.9
5 21	15 55.79	-15 55.2	1.912	2.922	1.5	20.5	5 21	15 55.76	-3 14.3	2.187	3.169	5.3	20.8
5 31	15 47.36	-15 33.8	1.914	2.912	4.3	20.7	5 31	15 47.97	-2 51.0	2.183	3.146	6.9	20.9
6 10	15 39.69	-15 17.2	1.942	2.902	8.0	20.9	6 10	15 40.77	-2 41.8	2.204	3.123	9.4	21.0
6 20	15 33.54	-15 7.8	1.995	2.891	11.4	21.1	6 20	15 34.79	-2 47.5	2.250	3.100	12.1	21.1
6 30	15 29.44	-15 7.2	2.069	2.881	14.4	21.3	6 30	15 30.55	-3 7.7	2.315	3.077	14.5	21.3
513394	2008 <i>HE</i> ₆₉		5 21.8 14°25	4°8°/17.3	18		19284	1996 <i>BU</i> ₃		5 21.8 89°92	8°9°/16.7	18	
4 21	16 9.61	+1 8.2	3.717	4.571	7.4	20.7	4 21	16 15.91	+8 14.5	2.376	3.210	11.7	18.2
5 1	16 5.57	+1 41.8	3.661	4.574	6.0	20.6	5 1	16 10.27	+9 1.0	2.333	3.218	10.1	18.1
5 11	16 0.76	+2 8.4	3.632	4.577	5.0	20.5	5 11	16 3.34	+9 31.7	2.313	3.226	9.1	18.1
5 21	15 55.54	+2 25.9	3.629	4.580	4.9	20.5	5 21	15 55.75	+9 43.2	2.318	3.235	9.0	18.1
5 31	15 50.31	+2 32.9	3.653	4.583	5.7	20.6	5 31	15 48.22	+9 33.5	2.347	3.243	9.9	18.1
6 10	15 45.50	+2 28.8	3.704	4.586	7.0	20.7	6 10	15 41.45	+9 2.8	2.400	3.251	11.4	18.3
6 20	15 41.43	+2 13.8	3.778	4.590	8.4	20.8	6 20	15 35.98	+8 13.4	2.474	3.259	13.1	18.4
6 30	15 38.39	+1 48.7	3.874	4.593	9.8	20.9	6 30	15 32.19	+7 8.3	2.567	3.266	14.6	18.5
59997	1999 <i>TN</i> ₁		5 21.8 311°69	4°9°/18.3	18		68824	2002 <i>GB</i> ₈₁		5 21.8 237°17	4°3°/19.8	18	
4 21	16 14.35	-10 32.5	1.930	2.820	11.5	18.5	4 21	16 20.33	-11 31.1	1.677	2.564	13.1	19.4
5 1	16 9.65	-9 8.8	1.847	2.797	8.5	18.2	5 1	16 14.04	-10 42.7	1.604	2.553	9.5	19.2
5 11	16 3.22	-7 44.5	1.789	2.773	5.8	18.0	5 11	16 5.63	-9 55.5	1.554	2.542	6.0	19.0
5 21	15 55.74	-6 24.9	1.757	2.750	5.0	17.9	5 21	15 55.93	-9 13.7	1.530	2.531	4.4	18.8
5 31	15 48.07	-5 16.1	1.752	2.728	7.2	18.0	5 31	15 46.07	-8 41.9	1.533	2.519	6.9	18.9
6 10	15 41.14	-4 22.8	1.773	2.705	10.5	18.2	6 10	15 37.17	-8 23.5	1.561	2.506	10.7	19.1
6 20	15 35.69	-3 47.9	1.816	2.683	13.8	18.3	6 20	15 30.16	-8 20.5	1.612	2.494	14.5	19.3
6 30	15 32.29	-3 32.0	1.878	2.662	16.7	18.5	6 30	15 25.63	-8 32.9	1.682	2.480	17.7	19.5
290855	2005 <i>WE</i> ₄₁		5 21.8 269°60	0°2°/21.9	18		123156	2000 <i>TM</i> ₄₃		5 21.8 273°72	2°3°/20.8	18	
4 21	16 16.66	-21 46.6	2.413	3.287	10.1	21.1	4 21	16 19.75	-15 1.5	1.858	2.742	12.2	20.6
5 1	16 11.06	-21 34.7	2.325	3.271	7.2	20.9	5 1	16 13.65	-14 43.9	1.769	2.720	8.7	20.3
5 11	16 3.90	-21 17.6	2.263	3.256	3.9	20.7	5 11	16 5.46	-14 25.6	1.704	2.697	4.9	20.0
5 21	15 55.79	-20 56.2	2.228	3.240	0.4	20.4	5 21	15 55.93	-14 8.5	1.665	2.674	2.3	19.8
5 31	15 47.51	-20 32.3	2.222	3.224	3.3	20.6	5 31	15 46.07	-13 55.4	1.654	2.651	5.2	19.9
6 10	15 39.90	-20 8.6	2.243	3.208	6.8	20.8	6 10	15 36.97	-13 49.0	1.670	2.627	9.3	20.1
6 20	15 33.61	-19 47.7	2.291	3.191	10.0	21.0	6 20	15 29.55	-13 51.5	1.709	2.603	13.2	20.3
6 30	15 29.18	-19 32.1	2.360	3.175	12.8	21.1	6 30	15 24.50	-14 4.1	1.769	2.579	16.5	20.5
474931	2005 <i>SM</i> ₂₅₇		5 21.8 284°81	0°9°/21.3	17		168161	2006 <i>HE</i> ₅₇		5 21.8 345°18	0°2°/21.9	17	
4 21	16 16.70	-19 1.6	2.218	3.098	10.6	21.3	4 21	16 21.80	-19 40.9	1.241	2.138	16.0	19.7
5 1	16 11.21	-18 39.3	2.126	3.076	7.5	21.0	5 1	16 15.76	-20 5.0	1.177	2.134	11.4	19.4
5 11	16 4.03	-18 12.9	2.059	3.054	4.0	20.8	5 11	16 6.81	-20 25.7	1.135	2.131	6.2	19.1
5 21	15 55.80	-17 43.9	2.020	3.031	0.9	20.5	5 21	15 56.04	-20 42.7	1.116	2.128	0.5	18.7
5 31	15 47.35	-17 14.8	2.009	3.009	3.9	20.7	5 31	15 45.00	-20 56.4	1.122	2.126	5.2	19.0
6 10	15 39.56	-16 48.7	2.025	2.986	7.6	20.9	6 10	15 35.33	-21 9.3	1.151	2.124	10.7	19.3
6 20	15 33.18	-16 28.4	2.066	2.964	11.0	21.0	6 20	15 28.26	-21 24.3	1.202	2.123	15.5	19.6
6 30	15 28.76	-16 16.0	2.129	2.941	14.0	21.2	6 30	15 24.54	-21 44.3	1.271	2.122	19.5	19.8
200555	2001 <i>KY</i> ₂₉		5 21.8 343°97	0°6°/21.9	18		234769	2002 <i>PP</i> ₆₈		5 21.8 297			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
472961	2015 <i>GS</i> ₃₇		5 21.8	2°43'	2°2'/20.9	17	219607	2001 <i>TT</i> ₉₁		5 21.8	221°88'	3°1'/19.9	18
4 21	16 18.07	-15 22.6	1.770	2.658	12.4	20.9	4 21	16 18.92	-14 6.7	2.120	2.999	11.1	21.5
5 1	16 12.31	-15 6.3	1.705	2.658	8.8	20.7	5 1	16 12.69	-13 6.4	2.042	2.990	7.9	21.3
5 11	16 4.64	-14 49.4	1.664	2.658	4.9	20.4	5 11	16 4.79	-12 4.1	1.989	2.979	4.7	21.1
5 21	15 55.87	-14 34.2	1.649	2.658	2.2	20.3	5 21	15 55.92	-11 3.5	1.965	2.968	3.1	20.9
5 31	15 47.03	-14 23.3	1.661	2.658	5.0	20.4	5 31	15 46.96	-10 9.0	1.969	2.957	5.4	21.1
6 10	15 39.16	-14 19.0	1.699	2.659	8.9	20.7	6 10	15 38.79	-9 24.5	2.001	2.945	8.8	21.2
6 20	15 33.06	-14 23.2	1.760	2.659	12.6	20.9	6 20	15 32.14	-8 52.6	2.057	2.932	12.1	21.4
6 30	15 29.28	-14 36.8	1.841	2.660	15.7	21.1	6 30	15 27.52	-8 34.7	2.134	2.918	14.9	21.6
159664	2002 <i>EK</i> ₁₄₁		5 21.8	87°65'	0°1'/21.8	17	171437	2007 <i>RO</i> ₈₃		5 21.8	284°56'	0°4'/22.0	17
4 21	16 19.41	-20 43.9	1.763	2.646	12.7	20.6	4 21	16 18.42	-22 5.2	1.910	2.790	12.1	20.6
5 1	16 13.29	-20 34.1	1.698	2.649	9.0	20.4	5 1	16 12.61	-21 59.2	1.833	2.782	8.6	20.3
5 11	16 5.17	-20 19.1	1.658	2.652	4.8	20.1	5 11	16 4.85	-21 47.1	1.781	2.774	4.7	20.1
5 21	15 55.91	-19 59.9	1.643	2.655	0.4	19.8	5 21	15 55.93	-21 29.6	1.755	2.767	0.6	19.7
5 31	15 46.61	-19 39.0	1.656	2.658	4.1	20.1	5 31	15 46.85	-21 8.8	1.756	2.759	3.9	20.0
6 10	15 38.36	-19 19.7	1.695	2.662	8.4	20.4	6 10	15 38.66	-20 47.8	1.784	2.752	8.0	20.2
6 20	15 31.99	-19 5.2	1.758	2.665	12.2	20.6	6 20	15 32.19	-20 29.9	1.837	2.744	11.7	20.4
6 30	15 28.04	-18 58.0	1.841	2.668	15.3	20.8	6 30	15 28.03	-20 18.0	1.910	2.737	14.9	20.6
258661	2002 <i>EV</i> ₉₅		5 21.8	53°13'	2°1'/22.5	17	344048	6807 <i>P-L</i>		5 21.8	221°37'	3°3'/19.7	18
4 21	16 22.31	-24 56.8	1.312	2.199	16.0	20.5	4 21	16 17.15	-11 3.0	2.508	3.384	9.7	21.8
5 1	16 15.91	-25 9.7	1.255	2.206	11.6	20.2	5 1	16 11.25	-10 22.8	2.430	3.374	7.0	21.6
5 11	16 6.77	-25 12.0	1.220	2.212	6.6	20.0	5 11	16 3.96	-9 43.9	2.378	3.363	4.4	21.4
5 21	15 56.04	-25 3.2	1.209	2.219	2.3	19.7	5 21	15 55.86	-9 9.1	2.354	3.352	3.3	21.3
5 31	15 45.27	-24 45.3	1.223	2.227	5.1	19.9	5 31	15 47.67	-8 41.1	2.358	3.341	5.1	21.4
6 10	15 36.01	-24 22.8	1.261	2.234	9.9	20.2	6 10	15 40.12	-8 22.2	2.391	3.329	7.9	21.6
6 20	15 29.33	-24 1.0	1.321	2.241	14.4	20.5	6 20	15 33.81	-8 13.9	2.448	3.316	10.6	21.7
6 30	15 25.88	-23 44.7	1.400	2.249	18.1	20.7	6 30	15 29.19	-8 16.5	2.528	3.303	13.1	21.9
357762	2005 <i>SM</i> ₁₁₀		5 21.8	228°24'	0°2'/21.9	17	87442	2000 <i>QZ</i> ₁₁₀		5 21.8	230°98'	0°3'/21.6	18
4 21	16 16.71	-22 0.1	2.377	3.251	10.2	21.4	4 21	16 16.87	-20 25.0	2.447	3.322	10.0	20.6
5 1	16 11.04	-21 48.5	2.302	3.248	7.3	21.2	5 1	16 11.14	-20 6.2	2.367	3.314	7.0	20.4
5 11	16 3.87	-21 31.6	2.252	3.245	3.9	21.0	5 11	16 3.93	-19 43.0	2.313	3.307	3.8	20.2
5 21	15 55.83	-21 10.5	2.230	3.242	0.4	20.7	5 21	15 55.86	-19 16.7	2.287	3.299	0.4	19.9
5 31	15 47.72	-20 47.0	2.236	3.239	3.3	20.9	5 31	15 47.70	-18 49.4	2.289	3.290	3.3	20.1
6 10	15 40.34	-20 23.8	2.270	3.235	6.7	21.1	6 10	15 40.23	-18 23.7	2.320	3.282	6.7	20.3
6 20	15 34.35	-20 3.4	2.330	3.232	9.8	21.3	6 20	15 34.08	-18 2.3	2.376	3.273	9.8	20.5
6 30	15 30.20	-19 48.3	2.412	3.228	12.5	21.5	6 30	15 29.74	-17 47.2	2.455	3.264	12.5	20.7
414146	2007 <i>VU</i> ₂₉₃		5 21.8	109°69'	1°9'/21.1	17	125395	2001 <i>VS</i> ₉₆		5 21.8	207°28'	6°0'/18.4	18
4 21	16 22.02	-16 43.5	1.567	2.455	13.8	21.6	4 21	16 18.52	-4 23.7	2.083	2.955	11.6	19.8
5 1	16 15.16	-16 23.2	1.514	2.467	9.7	21.4	5 1	16 12.37	-3 30.5	2.017	2.950	8.9	19.6
5 11	16 6.16	-16 0.9	1.485	2.479	5.3	21.2	5 11	16 4.61	-2 44.2	1.975	2.945	6.7	19.4
5 21	15 56.01	-15 38.9	1.481	2.491	1.9	21.0	5 21	15 55.92	-2 9.1	1.960	2.939	6.1	19.4
5 31	15 45.95	-15 20.3	1.503	2.502	5.1	21.2	5 31	15 47.16	-1 48.7	1.973	2.933	7.7	19.5
6 10	15 37.15	-15 8.3	1.552	2.513	9.5	21.5	6 10	15 39.21	-1 44.9	2.010	2.926	10.4	19.6
6 20	15 30.47	-15 5.0	1.624	2.524	13.4	21.7	6 20	15 32.75	-1 57.8	2.071	2.919	13.1	19.8
6 30	15 26.43	-15 11.9	1.715	2.535	16.6	22.0	6 30	15 28.27	-2 26.0	2.152	2.911	15.5	19.9
48678	1996 <i>AP</i> ₁₂		5 21.8	116°60'	0°8'/22.2	17	122951	2000 <i>SY</i> ₂₀₀		5 21.8	0°61'	1°8'/21.2	18
4 21	16 20.03	-24 32.3	1.597	2.479	13.9	19.5	4 21	16 15.69	-18 32.3	0.977	1.894	17.4	18.4
5 1	16 13.90	-23 59.6	1.532	2.481	10.0	19.2	5 1	16 11.71	-18 4.7	0.924	1.891	12.4	18.1
5 11	16 5.55	-23 16.0	1.490	2.483	5.5	19.0	5 11	16 4.72	-17 31.4	0.890	1.889	6.7	17.7
5 21	15 55.97	-22 23.3	1.473	2.485	1.0	18.7	5 21	15 55.94	-16 56.3	0.877	1.888	1.8	17.4
5 31	15 46.38	-21 25.8	1.483	2.487	4.3	18.9	5 31	15 47.04	-16 25.0	0.886	1.890	6.4	17.7
6 10	15 38.02	-20 29.3	1.519	2.488	8.9	19.2	6 10	15 39.74	-16 3.1	0.916	1.892	12.2	18.0
6 20	15 31.77	-19 39.2	1.578	2.490	13.0	19.4	6 20	15 35.22	-15 54.5	0.964	1.896	17.3	18.3
6 30	15 28.20	-18 59.7	1.658	2.492	16.4	19.7	6 30	15 34.14	-16 1.0	1.029	1.901	21.6	18.6
30505	2000 <i>RW</i> ₈₂		5 21.8	205°81'	3°7'/16.9	18	414443	2009 <i>EB</i> ₂₉		5 21.8	18°26'	1°4'/21.3	17
4 21	16 8.59	-1 11.0	4.741	5.597	5.9	19.2	4 21	16 18.12	-19 18.7	1.144	2.050	16.3	20.9
5 1	16 4.76	-0 21.5	4.678	5.595	4.7	19.1	5 1	16 13.05	-18 46.2	1.092	2.054	11.5	20.7
5 11	16 0.33	+ 0 23.6	4.642	5.593	3.8	19.0	5 11	16 5.27	-18 7.3	1.061	2.058	6.2	20.4
5 21	15 55.56	+ 1 2.4	4.635	5.591	3.8	19.0	5 21	15 55.97	-17 25.8	1.052	2.063	1.4	20.1
5 31	15 50.79	+ 1 33.5	4.657	5.588	4.5	19.1	5 31	15 46.69	-16 46.8	1.067	2.069	5.8	20.4
6 10	15 46.32	+ 1 55.7	4.705	5.586	5.6	19.2	6 10	15 38.93	-16 15.9	1.104	2.076	11.1	20.7
6 20	15 42.42	+ 2 8.8	4.778	5.583	6.9	19.2	6 20	15 33.73	-15 57.1	1.162	2.084	15.8	21.0
6 30	15 39.34	+ 2 12.8	4.873	5.581	8.0	19.3	6 30	15 31.69	-15 52.6	1.238	2.092	19.7	21.3
374554	2006 <i>BZ</i> ₁₂₇		5 21.8	171°00'	1°6'/20.9	17	497986	2007 <i>DC</i> ₂₃		5 21.8	128°03'	9°5'/16.5	17
4 21	16 18.97	-16 48.3	2.256	3.132	10.6	22.2	4 21	16 17.97	+ 3 7.2	1.812	2.674	13.5	21.9
5 1	16 12.59	-16 18.7	2.188	3.136	7.5	22.0	5 1	16 12.04	+ 4 27.6	1.767	2.680	11.2	21.8
5 11	16 4.67	-15 46.9	2.146	3.139	4.1	21.8	5 11	16 4.42	+ 5 33.0	1.745	2.686	9.7	21.7
5 21	15 55.90	-15 14.9	2.132	3.141	1.6	21.6	5 21	15 55.90	+ 6 17.5	1.748	2.692	9.7	21.7
5 31	15 47.12	-14 45.4	2.147	3.143	4.1	21.8	5 31	15 47.45	+ 6 37.2	1.775	2.698	11.0	21.8
6 10	15 39.17	-14 21.3	2.189	3.145	7.5	22.0	6 10	15 39.98	+ 6 31.2	1.825	2.703	13.2	21.9
6 20	15 32.68	-14 4.7	2.257	3.145	10.6	22.2	6 20	15 34.19	+ 6 1.5	1.895	2.708	15.5	22.1
6 30	15 28.13	-13 57.0	2.347	3.146	13.3	22.4	6 30	15 30.54	+ 5 11.6	1.983	2.713	17.5	22.3
36557	2000 <i>QC</i> ₁₀₅		5 21.8	219°06'	4°8'/19.0	18	182204	2000 <i>WA</i> ₂₁		5 21.8	21		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
147903	2006 <i>SE</i> ₆₁		5 21.8 253°89	0°5/22.0	18		315338	2007 <i>TO</i> ₄₁₉		5 21.8 177°99	0°2/21.9	14 C	
4 21	16 22.83	-21 52.6	1.853	2.728	12.7	20.7	4 21	16 22.43	-22 21.8	1.917	2.790	12.4	22.5
5 1	16 15.97	-21 56.9	1.762	2.708	9.1	20.4	5 1	16 15.33	-21 58.7	1.846	2.792	8.8	22.3
5 11	16 6.80	-21 55.5	1.694	2.687	5.0	20.1	5 11	16 6.27	-21 28.0	1.801	2.794	4.7	22.0
5 21	15 56.12	-21 48.2	1.654	2.666	0.7	19.7	5 21	15 56.10	-20 51.4	1.783	2.795	0.4	21.7
5 31	15 45.04	-21 36.2	1.641	2.644	4.2	20.0	5 31	15 45.90	-20 11.6	1.793	2.795	4.0	22.0
6 10	15 34.79	-21 22.5	1.656	2.621	8.7	20.2	6 10	15 36.74	-19 32.8	1.830	2.794	8.1	22.2
6 20	15 26.38	-21 10.5	1.695	2.598	12.8	20.4	6 20	15 29.44	-18 59.0	1.893	2.793	11.8	22.4
6 30	15 20.55	-21 3.7	1.755	2.574	16.3	20.6	6 30	15 24.53	-18 33.4	1.977	2.791	14.9	22.6
511353	2014 <i>FR</i> ₂		5 21.8 25°64	3°7/19.7	17		478159	2011 <i>UK</i> ₁₇₂		5 21.8 218°19	5°7/24.9	18	
4 21	16 15.27	-11 59.2	1.931	2.820	11.5	20.9	4 21	16 21.39	-38 42.6	2.497	3.312	11.7	21.4
5 1	16 10.15	-11 8.6	1.873	2.824	8.3	20.7	5 1	16 14.64	-39 14.5	2.415	3.308	9.5	21.2
5 11	16 3.43	-10 19.4	1.839	2.828	5.1	20.5	5 11	16 5.95	-39 31.8	2.358	3.303	7.3	21.1
5 21	15 55.84	-9 35.5	1.832	2.833	3.8	20.4	5 21	15 56.08	-39 32.4	2.326	3.298	5.8	21.0
5 31	15 48.28	-9 0.7	1.852	2.838	5.9	20.6	5 31	15 46.03	-39 15.9	2.321	3.292	6.0	21.0
6 10	15 41.59	-8 37.8	1.897	2.843	9.1	20.8	6 10	15 36.83	-38 44.9	2.343	3.287	7.8	21.1
6 20	15 36.46	-8 28.3	1.966	2.849	12.2	21.0	6 20	15 29.31	-38 3.8	2.391	3.281	10.0	21.2
6 30	15 33.32	-8 32.2	2.055	2.855	14.9	21.2	6 30	15 24.07	-37 17.8	2.461	3.275	12.3	21.4
233792	2008 <i>UQ</i> ₄₁		5 21.8 316°02	1°1/22.3	17		478060	2011 <i>TH</i> ₁₄		5 21.9 210°35	1°0/21.2	18	
4 21	16 19.17	-23 20.0	1.760	2.640	12.9	20.5	4 21	16 17.03	-17 42.0	2.697	3.570	9.2	22.4
5 1	16 13.29	-23 23.7	1.687	2.635	9.3	20.3	5 1	16 11.15	-17 26.0	2.617	3.564	6.5	22.2
5 11	16 5.28	-23 20.3	1.638	2.631	5.2	20.0	5 11	16 3.93	-17 7.7	2.564	3.558	3.5	22.0
5 21	15 56.00	-23 9.9	1.615	2.626	1.2	19.7	5 21	15 55.95	-16 48.5	2.540	3.551	1.0	21.8
5 31	15 46.56	-22 54.2	1.619	2.622	4.1	19.9	5 31	15 47.88	-16 30.2	2.545	3.543	3.4	22.0
6 10	15 38.11	-22 36.5	1.649	2.618	8.3	20.2	6 10	15 40.43	-16 14.9	2.578	3.536	6.4	22.2
6 20	15 31.56	-22 20.4	1.702	2.614	12.2	20.4	6 20	15 34.17	-16 4.3	2.638	3.528	9.2	22.4
6 30	15 27.52	-22 9.2	1.777	2.610	15.5	20.6	6 30	15 29.54	-16 0.0	2.721	3.519	11.7	22.5
134633	1999 <i>UG</i> ₈		5 21.8 275°35	0°4/22.0	18		312664	2010 <i>LD</i> ₁₂		5 21.9 291°13	2°9/20.2	18	
4 21	16 21.04	-22 39.3	1.600	2.483	13.8	20.0	4 21	16 15.86	-12 52.1	2.170	3.054	10.7	20.4
5 1	16 14.96	-22 23.1	1.511	2.461	10.0	19.7	5 1	16 10.60	-12 21.5	2.090	3.040	7.7	20.2
5 11	16 6.35	-21 58.0	1.445	2.439	5.5	19.4	5 11	16 3.74	-11 51.5	2.035	3.026	4.6	19.9
5 21	15 56.10	-21 24.8	1.405	2.417	0.7	19.0	5 21	15 55.94	-11 24.8	2.008	3.012	3.0	19.8
5 31	15 45.44	-20 46.4	1.391	2.394	4.6	19.2	5 31	15 47.99	-11 4.1	2.008	2.998	5.1	19.9
6 10	15 35.74	-20 7.5	1.402	2.371	9.6	19.4	6 10	15 40.73	-10 51.9	2.034	2.984	8.3	20.1
6 20	15 28.11	-19 33.1	1.437	2.348	14.1	19.6	6 20	15 34.86	-10 49.8	2.085	2.971	11.5	20.3
6 30	15 23.34	-19 7.8	1.492	2.324	18.0	19.8	6 30	15 30.88	-10 58.5	2.157	2.957	14.3	20.4
422805	2001 <i>YY</i> ₁₂		5 21.8 196°04	1°9/21.1	17		216353	2007 <i>YO</i> ₅₃		5 21.9 63°79	6°7/18.9	18	
4 21	16 21.61	-14 25.5	2.089	2.965	11.4	22.0	4 21	16 17.37	-0 43.0	2.096	2.962	11.7	19.8
5 1	16 14.65	-14 27.2	2.016	2.963	8.1	21.7	5 1	16 11.47	-0 16.7	2.047	2.972	9.3	19.6
5 11	16 5.88	-14 29.7	1.968	2.960	4.5	21.5	5 11	16 4.10	-0 1.7	2.021	2.982	7.3	19.5
5 21	15 56.05	-14 34.1	1.948	2.957	1.9	21.3	5 21	15 55.96	-0 0.8	2.022	2.992	6.7	19.5
5 31	15 46.09	-14 41.6	1.957	2.953	4.5	21.5	5 31	15 47.87	-0 16.1	2.048	3.002	8.0	19.6
6 10	15 36.96	-14 53.8	1.993	2.949	8.1	21.7	6 10	15 40.63	-0 47.4	2.101	3.012	10.2	19.8
6 20	15 29.43	-15 11.6	2.055	2.944	11.5	21.9	6 20	15 34.86	-1 33.3	2.176	3.023	12.6	19.9
6 30	15 24.06	-15 36.0	2.138	2.939	14.4	22.1	6 30	15 30.98	-2 31.4	2.271	3.033	14.7	20.1
506910	2008 <i>DE</i> ₁₂		5 21.8 88°71	0°2/21.8	17		70301	1999 <i>RZ</i> ₁₃₀		5 21.9 187°53	1°5/22.6	18	
4 21	16 17.55	-20 35.5	2.226	3.102	10.7	22.1	4 21	16 21.94	-26 4.2	1.723	2.595	13.5	19.3
5 1	16 11.63	-20 25.6	2.165	3.113	7.5	21.9	5 1	16 15.23	-25 39.9	1.652	2.595	9.8	19.1
5 11	16 4.18	-20 11.4	2.130	3.123	4.0	21.7	5 11	16 6.32	-25 3.7	1.604	2.594	5.6	18.8
5 21	15 55.91	-19 54.1	2.122	3.134	0.3	21.4	5 21	15 56.15	-24 16.9	1.583	2.593	1.6	18.6
5 31	15 47.66	-19 35.7	2.142	3.144	3.4	21.7	5 31	15 45.94	-23 22.9	1.589	2.592	4.2	18.8
6 10	15 40.27	-19 18.7	2.190	3.155	6.9	21.9	6 10	15 36.89	-22 27.0	1.622	2.590	8.5	19.0
6 20	15 34.36	-19 5.5	2.264	3.165	10.1	22.1	6 20	15 29.91	-21 34.8	1.679	2.588	12.5	19.2
6 30	15 30.39	-18 57.9	2.359	3.175	12.7	22.3	6 30	15 25.58	-20 51.0	1.757	2.585	15.9	19.5
243658	1999 <i>UC</i> ₅₂		5 21.8 254°20	5°1/17.8	18		475109	2005 <i>UC</i> ₂₅₂		5 21.9 243°29	4°7/24.9	18	
4 21	16 14.74	-4 35.3	2.689	3.558	9.3	21.0	4 21	16 19.63	-37 18.4	2.676	3.497	10.9	21.5
5 1	16 9.52	-4 35.4	2.610	3.542	7.2	20.9	5 1	16 13.26	-37 25.6	2.585	3.484	8.7	21.4
5 11	16 3.04	-4 20.0	2.557	3.524	5.5	20.7	5 11	16 5.17	-37 18.8	2.517	3.471	6.4	21.2
5 21	15 55.84	-4 52.9	2.531	3.507	5.2	20.7	5 21	15 56.06	-36 57.0	2.476	3.458	4.9	21.1
5 31	15 48.53	-4 17.2	2.534	3.489	6.6	20.7	5 31	15 46.81	-36 20.6	2.464	3.444	5.1	21.1
6 10	15 41.76	-4 05.1	2.563	3.471	8.8	20.8	6 10	15 38.32	-35 32.6	2.478	3.430	7.0	21.2
6 20	15 36.08	-4 07.5	2.616	3.452	11.0	21.0	6 20	15 31.34	-34 37.3	2.519	3.416	9.4	21.3
6 30	15 31.91	-4 04.1	2.690	3.433	13.1	21.1	6 30	15 26.38	-33 39.6	2.583	3.401	11.7	21.4
472807	2015 <i>FC</i> ₁₆₁		5 21.8 118°21	1°2/21.3	17		392437	2010 <i>RP</i> ₉₀		5 21.9 222°13	4°2/19.0	17	
4 21	16 19.04	-17 27.9	1.949	2.831	11.8	21.0	4 21	16 14.88	-8 20.8	2.487	3.365	9.7	21.0
5 1	16 12.87	-17 18.1	1.885	2.836	8.3	20.8	5 1	16 9.65	-7 32.5	2.419	3.361	7.2	20.9
5 11	16 4.93	-17 6.1	1.846	2.840	4.4	20.6	5 11	16 3.13	-6 47.5	2.377	3.357	4.9	20.7
5 21	15 55.98	-16 53.6	1.833	2.844	1.2	20.4	5 21	15 55.90	-6 9.0	2.363	3.354	4.2	20.7
5 31	15 47.01	-16 42.5	1.849	2.849	4.2	20.6	5 31	15 48.63	-5 39.9	2.376	3.350	5.8	20.8
6 10	15 38.96	-16 35.2	1.891	2.853	8.0	20.8	6 10	15 42.00	-5 22.4	2.417	3.346	8.3	20.9
6 20	15 32.60	-16 33.9	1.958	2.857	11.5	21.0	6 20	15 36.58	-5 17.3	2.481	3.342	10.8	21.1
6 30	15 28.42	-16 39.9	2.046	2.861	14.4	21.3	6 30	15 32.77	-5 24.6	2.567	3.337	13.0	21.2
384882	2012 <i>SP</i> ₆₀		5 21.8 217°19	2°9/20.2	18		518168	2016 <i>JT</i> ₄₀		5 21.9 2			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
11211	1999 <i>GD</i> ₂₄		5 21.9 302°15	0°2/21.9	18		475125	2005 <i>UG</i> ₂₉₄		5 21.9 289°31	1°8/22.8	18	
4 21	16 19.03	-23 19.2	1.288	2.184	15.7	16.8	4 21	16 17.70	-26 1.0	2.223	3.091	11.1	21.2
5 1	16 13.90	-22 41.8	1.209	2.165	11.3	16.5	5 1	16 12.04	-26 5.7	2.137	3.077	8.1	21.0
5 11	16 5.95	-21 51.2	1.150	2.146	6.2	16.1	5 11	16 4.59	-26 2.5	2.076	3.064	4.8	20.7
5 21	15 56.16	-20 49.7	1.115	2.127	0.6	15.7	5 21	15 56.06	-25 51.3	2.042	3.051	1.9	20.5
5 31	15 46.01	-19 42.6	1.105	2.109	5.3	16.0	5 31	15 47.33	-25 33.2	2.036	3.037	3.6	20.6
6 10	15 37.07	-18 37.3	1.118	2.091	10.9	16.2	6 10	15 39.35	-25 11.0	2.057	3.024	7.1	20.8
6 20	15 30.57	-17 41.2	1.153	2.074	16.0	16.5	6 20	15 32.87	-24 47.9	2.103	3.011	10.4	21.0
6 30	15 27.32	-16 59.8	1.205	2.057	20.3	16.7	6 30	15 28.47	-24 27.4	2.172	2.998	13.3	21.1
126478	2002 <i>CH</i> ₄₈		5 21.9 15°24	5°2/24.7	18		83625	2001 <i>SL</i> ₃₁₃		5 21.9 166°31	5°0/18.9	18	
4 21	16 18.85	-34 29.6	1.423	2.289	16.2	18.7	4 21	16 16.38	-5 30.9	2.361	3.234	10.3	19.8
5 1	16 13.49	-34 17.7	1.361	2.292	12.5	18.5	5 1	16 10.74	-4 49.6	2.301	3.236	7.8	19.6
5 11	16 5.52	-33 44.1	1.320	2.296	8.6	18.3	5 11	16 3.74	-4 14.2	2.265	3.239	5.7	19.5
5 21	15 56.11	-32 48.6	1.302	2.301	5.5	18.1	5 21	15 56.01	-3 48.0	2.257	3.240	5.1	19.4
5 31	15 46.74	-31 34.8	1.309	2.306	6.1	18.2	5 31	15 48.26	-3 33.5	2.276	3.242	6.5	19.5
6 10	15 38.87	-30 10.3	1.341	2.312	9.6	18.4	6 10	15 41.23	-3 32.3	2.322	3.243	8.9	19.7
6 20	15 33.48	-28 44.2	1.395	2.319	13.5	18.6	6 20	15 35.49	-3 44.4	2.391	3.244	11.4	19.8
6 30	15 31.14	-27 24.5	1.469	2.327	17.0	18.9	6 30	15 31.47	-4 9.0	2.481	3.245	13.6	20.0
494810	2007 <i>RB</i> ₁₅₀		5 21.9 174°45	2°5/19.2	18		176455	2001 <i>XL</i> ₅₇		5 21.9 168°93	0°6/21.4	18	
4 21	16 11.40	-9 17.0	4.074	4.944	6.4	21.9	4 21	16 16.80	-18 51.7	3.020	3.889	8.4	22.0
5 1	16 6.83	-8 38.7	4.007	4.946	4.7	21.8	5 1	16 10.84	-18 34.1	2.949	3.893	5.9	21.9
5 11	16 1.51	-8 2.3	3.968	4.948	3.1	21.7	5 11	16 3.74	-18 13.8	2.904	3.897	3.2	21.7
5 21	15 55.79	-7 29.5	3.957	4.950	2.6	21.6	5 21	15 56.01	-17 52.0	2.889	3.901	0.7	21.5
5 31	15 50.07	-7 1.9	3.977	4.951	3.6	21.7	5 31	15 48.27	-17 30.4	2.904	3.904	2.9	21.7
6 10	15 44.74	-6 40.8	4.025	4.952	5.3	21.8	6 10	15 41.12	-17 10.9	2.949	3.906	5.7	21.9
6 20	15 40.13	-6 27.0	4.099	4.952	7.0	22.0	6 20	15 35.07	-16 55.3	3.019	3.908	8.2	22.0
6 30	15 36.50	-6 20.9	4.197	4.953	8.6	22.1	6 30	15 30.49	-16 45.1	3.114	3.909	10.4	22.2
15718	Imokawa		5 21.9 95°51	5°9/25.2	18		520011	2013 <i>UH</i> ₂₀		5 21.9 167°34	0°1/21.8	17	
4 21	16 23.32	-37 14.8	1.778	2.616	14.8	17.7	4 21	16 20.30	-20 35.6	2.208	3.081	11.0	22.7
5 1	16 16.29	-37 22.8	1.717	2.627	11.7	17.5	5 1	16 13.67	-20 27.7	2.139	3.085	7.8	22.5
5 11	16 6.89	-37 10.9	1.678	2.639	8.5	17.3	5 11	16 5.37	-20 15.3	2.095	3.088	4.1	22.3
5 21	15 56.22	-36 37.7	1.664	2.650	6.2	17.2	5 21	15 56.14	-19 59.3	2.079	3.092	0.3	22.0
5 31	15 45.65	-35 45.1	1.676	2.662	6.5	17.2	5 31	15 46.87	-19 41.6	2.092	3.094	3.5	22.3
6 10	15 36.47	-34 38.6	1.714	2.673	8.9	17.4	6 10	15 38.45	-19 24.9	2.133	3.096	7.2	22.5
6 20	15 29.62	-33 25.7	1.776	2.684	12.0	17.6	6 20	15 31.59	-19 11.5	2.200	3.098	10.5	22.7
6 30	15 25.63	-32 13.9	1.859	2.694	14.9	17.8	6 30	15 26.78	-19 3.8	2.288	3.099	13.2	22.9
299385	2005 <i>WA</i> ₁₄		5 21.9 119°41	0°3/21.7	16		126507	2002 <i>CU</i> ₆₄		5 21.9 301°39	6°0/19.7	18	
4 21	16 23.19	-20 25.7	1.349	2.239	15.4	21.7	4 21	16 19.89	-4 55.9	1.739	2.617	13.1	19.7
5 1	16 16.46	-20 16.2	1.291	2.245	10.9	21.5	5 1	16 13.64	-4 36.8	1.677	2.616	10.0	19.5
5 11	16 7.10	-20 0.5	1.255	2.250	5.9	21.2	5 11	16 5.45	-4 27.0	1.638	2.615	7.1	19.3
5 21	15 56.25	-19 39.9	1.244	2.256	0.5	20.8	5 21	15 56.15	-4 30.0	1.625	2.613	6.0	19.2
5 31	15 45.37	-19 17.5	1.258	2.261	5.0	21.2	5 31	15 46.78	-4 48.0	1.638	2.612	7.8	19.3
6 10	15 35.92	-18 57.6	1.297	2.266	10.1	21.5	6 10	15 38.36	-5 21.5	1.676	2.611	10.8	19.5
6 20	15 28.94	-18 44.2	1.358	2.270	14.6	21.8	6 20	15 31.73	-6 9.2	1.737	2.610	14.0	19.7
6 30	15 25.06	-18 40.2	1.437	2.275	18.3	22.0	6 30	15 27.44	-7 9.0	1.818	2.609	16.9	19.9
386116	2007 <i>RH</i> ₁₇₂		5 21.9 235°73	1°6/21.0	17		67268	2000 <i>EC</i> ₁₈₄		5 21.9 149°88	0°2/21.8	18	
4 21	16 17.89	-16 47.5	2.098	2.979	11.1	21.8	4 21	16 20.08	-19 39.8	2.222	3.096	10.9	19.3
5 1	16 12.06	-16 25.1	2.024	2.974	7.8	21.6	5 1	16 13.53	-19 46.4	2.155	3.101	7.7	19.1
5 11	16 4.54	-16 0.6	1.974	2.968	4.3	21.3	5 11	16 5.31	-19 49.9	2.113	3.106	4.1	18.9
5 21	15 56.05	-15 36.0	1.952	2.962	1.6	21.1	5 21	15 56.16	-19 50.7	2.099	3.111	0.3	18.6
5 31	15 47.45	-15 13.7	1.958	2.956	4.3	21.3	5 31	15 46.95	-19 50.0	2.113	3.115	3.5	18.8
6 10	15 39.65	-14 56.6	1.991	2.950	7.9	21.5	6 10	15 38.56	-19 49.7	2.156	3.119	7.1	19.1
6 20	15 33.36	-14 46.8	2.049	2.943	11.3	21.7	6 20	15 31.71	-19 51.6	2.224	3.123	10.3	19.3
6 30	15 29.11	-14 45.8	2.128	2.937	14.1	21.9	6 30	15 26.88	-19 57.7	2.315	3.127	13.1	19.5
415095	2012 <i>BN</i> ₁₅₁		5 21.9 162°10	3°9/23.7	17		457590	2009 <i>AN</i> ₃₃		5 21.9 26°98	5°0/20.5	17	
4 21	16 23.94	-31 2.2	1.654	2.515	14.6	21.4	4 21	16 18.46	-11 18.9	0.982	1.896	17.7	20.2
5 1	16 16.83	-31 5.3	1.587	2.518	11.0	21.2	5 1	16 13.41	-10 55.8	0.944	1.907	12.7	19.9
5 11	16 7.25	-30 52.8	1.542	2.522	7.1	21.0	5 11	16 5.54	-10 39.2	0.926	1.920	7.7	19.7
5 21	15 56.26	-30 23.7	1.522	2.525	4.1	20.8	5 21	15 56.17	-10 33.1	0.928	1.934	5.0	19.6
5 31	15 45.23	-29 40.2	1.529	2.527	5.2	20.9	5 31	15 46.95	-10 41.2	0.953	1.949	8.1	19.8
6 10	15 35.51	-28 47.4	1.562	2.529	8.9	21.1	6 10	15 39.45	-11 4.7	0.999	1.965	12.8	20.1
6 20	15 28.11	-27 52.0	1.619	2.531	12.7	21.3	6 20	15 34.68	-11 42.9	1.065	1.983	17.2	20.4
6 30	15 23.64	-27 0.5	1.697	2.532	16.1	21.5	6 30	15 33.18	-12 33.6	1.146	2.001	20.9	20.7
29506	1997 <i>XM</i>		5 21.9 161°75	0°8/22.2	18		358315	2006 <i>UR</i> ₂₇₀		5 21.9 106°33	0°7/21.4	18	
4 21	16 21.15	-23 22.1	2.142	3.011	11.4	19.2	4 21	16 16.79	-19 51.8	2.417	3.293	10.0	20.9
5 1	16 14.31	-23 15.1	2.074	3.016	8.2	19.0	5 1	16 11.00	-19 17.8	2.358	3.306	7.0	20.7
5 11	16 5.71	-23 1.2	2.030	3.022	4.5	18.7	5 11	16 3.87	-18 39.7	2.325	3.318	3.7	20.5
5 21	15 56.14	-22 41.2	2.015	3.026	0.9	18.5	5 21	15 56.04	-17 59.6	2.320	3.331	0.7	20.3
5 31	15 46.54	-22 16.9	2.028	3.030	3.5	18.7	5 31	15 48.28	-17 20.2	2.343	3.343	3.4	20.5
6 10	15 37.87	-21 51.4	2.069	3.034	7.2	18.9	6 10	15 41.32	-16 44.5	2.395	3.356	6.7	20.7
6 20	15 30.86	-21 27.9	2.136	3.037	10.6	19.1	6 20	15 35.73	-16 15.0	2.473	3.368	9.6	20.9
6 30	15 26.01	-21 9.6	2.224	3.039	13.4	19.3	6 30	15 31.89	-15 53.5	2.573	3.379	12.0	21.1
159162	2005 <i>AY</i> ₆₄		5 21.9 68°30	1°1/20.7	18		468522	2005 <i>UH</i> ₁₉₉		5 21.9 177°16			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
510797	2013 <i>AK</i> ₁₆₆		5 21.9 170°66	2°7/20.0	17		299906	2006 <i>SO</i> ₃₈₀		5 21.9 108°03	7°0/17.2	18	
4 21	16 15.94	-12 43.1	2.645	3.522	9.2	22.5	4 21	16 15.41	-0 4.9	2.280	3.144	11.0	20.8
5 1	16 10.34	-12 2.9	2.579	3.524	6.6	22.3	5 1	16 10.07	+0 59.6	2.230	3.151	8.9	20.6
5 11	16 3.52	-11 23.2	2.538	3.527	4.0	22.1	5 11	16 3.40	+1 54.2	2.205	3.157	7.3	20.5
5 21	15 56.02	-10 46.5	2.526	3.529	2.7	22.0	5 21	15 56.03	+2 34.7	2.205	3.163	7.1	20.5
5 31	15 48.53	-10 15.4	2.544	3.530	4.5	22.2	5 31	15 48.70	+2 57.8	2.232	3.169	8.4	20.6
6 10	15 41.68	-9 52.2	2.589	3.532	7.1	22.3	6 10	15 42.11	+3 2.4	2.284	3.175	10.4	20.8
6 20	15 36.02	-9 38.2	2.659	3.533	9.7	22.5	6 20	15 36.83	+2 49.1	2.358	3.181	12.5	20.9
6 30	15 31.93	-9 34.1	2.752	3.533	12.0	22.7	6 30	15 33.26	+2 19.8	2.452	3.187	14.4	21.1
204661	2006 <i>CU</i> ₂₁		5 21.9 117°40	2°6/20.9	18		350177	2011 <i>UD</i> ₁₃₁		5 21.9 326°65	0°7/22.2	16	
4 21	16 23.74	-14 48.0	1.483	2.370	14.5	20.7	4 21	16 16.80	-22 43.7	1.807	2.691	12.5	20.4
5 1	16 16.54	-14 33.0	1.430	2.382	10.3	20.5	5 1	16 11.68	-22 38.8	1.728	2.678	8.9	20.1
5 11	16 7.04	-14 18.2	1.401	2.394	5.7	20.3	5 11	16 4.53	-22 27.1	1.672	2.666	4.9	19.9
5 21	15 56.31	-14 5.9	1.397	2.406	2.6	20.1	5 21	15 56.14	-22 9.3	1.642	2.654	0.8	19.5
5 31	15 45.66	-13 58.9	1.420	2.417	5.7	20.3	5 31	15 47.54	-21 47.4	1.639	2.643	4.0	19.7
6 10	15 36.33	-13 59.6	1.468	2.428	10.1	20.6	6 10	15 39.82	-21 24.9	1.662	2.632	8.2	20.0
6 20	15 29.26	-14 9.7	1.539	2.438	14.0	20.9	6 20	15 33.86	-21 5.2	1.708	2.622	12.1	20.2
6 30	15 24.98	-14 29.8	1.630	2.448	17.4	21.1	6 30	15 30.27	-20 51.6	1.775	2.612	15.4	20.4
85057	9608 <i>P-L</i>		5 21.9 330°74	2°7/20.4	18		174032	2002 <i>AH</i> ₃₆		5 21.9 135°49	1°0/21.3	18	
4 21	16 16.28	-14 42.9	1.976	2.863	11.4	18.8	4 21	16 17.44	-17 45.9	2.541	3.416	9.6	20.9
5 1	16 10.97	-14 1.5	1.908	2.860	8.1	18.6	5 1	16 11.46	-17 31.7	2.478	3.425	6.8	20.8
5 11	16 3.99	-13 19.2	1.865	2.858	4.7	18.3	5 11	16 4.14	-17 15.5	2.441	3.434	3.6	20.6
5 21	15 56.07	-12 39.0	1.849	2.856	2.7	18.2	5 21	15 56.10	-16 58.6	2.432	3.442	1.0	20.4
5 31	15 48.10	-12 4.4	1.860	2.853	5.1	18.3	5 31	15 48.07	-16 42.7	2.452	3.451	3.4	20.6
6 10	15 40.98	-11 38.7	1.898	2.851	8.6	18.6	6 10	15 40.76	-16 30.0	2.500	3.459	6.5	20.8
6 20	15 35.40	-11 23.9	1.959	2.849	11.9	18.8	6 20	15 34.74	-16 22.0	2.574	3.466	9.3	21.0
6 30	15 31.87	-11 21.0	2.041	2.848	14.7	18.9	6 30	15 30.43	-16 20.2	2.671	3.473	11.8	21.2
107272	2001 <i>BO</i> ₇₁		5 21.9 77°61	0°9/21.5	18		403328	2009 <i>DK</i> ₅₃		5 21.9 284°21	2°1/22.8	16	
4 21	16 22.23	-19 26.0	1.421	2.311	14.8	19.7	4 21	16 19.11	-26 26.8	2.020	2.889	12.0	21.3
5 1	16 15.51	-19 7.8	1.374	2.328	10.4	19.5	5 1	16 13.21	-26 35.9	1.937	2.877	8.8	21.0
5 11	16 6.48	-18 44.6	1.350	2.345	5.5	19.2	5 11	16 5.32	-26 36.3	1.878	2.866	5.3	20.8
5 21	15 56.27	-18 18.6	1.350	2.362	0.9	19.0	5 21	15 56.21	-26 27.5	1.846	2.854	2.3	20.6
5 31	15 46.22	-17 53.4	1.377	2.379	4.9	19.3	5 31	15 46.87	-26 10.7	1.842	2.843	4.0	20.7
6 10	15 37.60	-17 32.8	1.428	2.396	9.6	19.6	6 10	15 38.37	-25 48.6	1.864	2.832	7.7	20.9
6 20	15 31.30	-17 20.0	1.503	2.412	13.7	19.9	6 20	15 31.57	-25 25.1	1.911	2.820	11.2	21.1
6 30	15 27.81	-17 17.2	1.597	2.429	17.1	20.1	6 30	15 27.08	-25 4.1	1.979	2.809	14.3	21.2
36969	2000 <i>SH</i> ₂₉₅		5 21.9 145°29	4°9/24.1	18		37237	2000 <i>WZ</i> ₁₆₁		5 21.9 54°55	6°3/18.7	18	
4 21	16 24.25	-34 13.2	2.156	2.993	12.6	18.2	4 21	16 16.35	-3 10.1	2.014	2.889	11.8	18.2
5 1	16 16.76	-34 49.8	2.088	3.001	9.8	18.0	5 1	16 10.77	-2 25.0	1.976	2.909	9.1	18.1
5 11	16 7.16	-35 12.7	2.045	3.008	7.0	17.9	5 11	16 3.76	-1 49.6	1.962	2.930	6.9	18.0
5 21	15 56.34	-35 19.7	2.027	3.016	5.0	17.8	5 21	15 56.07	-1 27.3	1.975	2.951	6.3	18.0
5 31	15 45.40	-35 10.8	2.038	3.022	5.6	17.8	5 31	15 48.51	-1 20.8	2.013	2.972	7.7	18.1
6 10	15 35.50	-34 48.9	2.075	3.029	8.0	18.0	6 10	15 41.87	-1 30.5	2.077	2.994	10.0	18.3
6 20	15 27.51	-34 18.5	2.138	3.035	10.8	18.1	6 20	15 36.72	-1 55.5	2.163	3.015	12.5	18.5
6 30	15 22.03	-33 45.2	2.222	3.040	13.3	18.3	6 30	15 33.46	-2 34.0	2.269	3.036	14.6	18.7
271919	2004 <i>XM</i> ₄₅		5 21.9 265°49	3°2/20.5	18		335142	2004 <i>VW</i> ₇₀		5 21.9 274°23	0°9/21.4	17	
4 21	16 19.93	-11 58.5	1.982	2.862	11.7	20.8	4 21	16 19.98	-19 13.8	1.970	2.849	11.8	21.7
5 1	16 13.72	-11 44.5	1.896	2.843	8.5	20.5	5 1	16 13.88	-18 51.5	1.873	2.822	8.4	21.4
5 11	16 5.57	-11 32.8	1.834	2.824	5.1	20.3	5 11	16 5.74	-18 24.2	1.800	2.795	4.6	21.1
5 21	15 56.21	-11 25.4	1.800	2.804	3.2	20.1	5 21	15 56.25	-17 53.3	1.755	2.767	0.9	20.8
5 31	15 46.57	-11 24.7	1.793	2.784	5.5	20.2	5 31	15 46.41	-17 21.7	1.738	2.738	4.3	21.0
6 10	15 37.66	-11 32.6	1.813	2.764	9.1	20.4	6 10	15 37.28	-16 52.9	1.747	2.709	8.6	21.2
6 20	15 30.31	-11 50.1	1.857	2.743	12.7	20.6	6 20	15 29.77	-16 30.2	1.782	2.680	12.5	21.3
6 30	15 25.16	-12 17.7	1.922	2.723	15.8	20.8	6 30	15 24.56	-16 16.6	1.837	2.650	15.9	21.5
123898	2001 <i>DU</i> ₆₁		5 21.9 35°73	5°6/19.3	18		241409	2008 <i>US</i> ₉₉		5 21.9 313°43	2°2/23.0	17	
4 21	16 16.80	-8 54.1	1.529	2.423	13.7	18.5	4 21	16 18.70	-27 45.3	1.739	2.612	13.4	20.6
5 1	16 11.52	-7 57.4	1.483	2.434	10.1	18.3	5 1	16 13.06	-27 27.4	1.664	2.606	9.8	20.3
5 11	16 4.31	-7 6.4	1.459	2.444	6.8	18.2	5 11	16 5.27	-26 56.8	1.612	2.600	5.9	20.1
5 21	15 56.09	-6 26.0	1.460	2.455	5.6	18.1	5 21	15 56.21	-26 14.0	1.585	2.594	2.4	19.8
5 31	15 47.97	-6 0.7	1.487	2.467	7.8	18.3	5 31	15 47.03	-25 22.1	1.585	2.588	4.3	19.9
6 10	15 40.99	-5 52.8	1.537	2.479	11.1	18.5	6 10	15 38.92	-24 26.3	1.611	2.582	8.3	20.2
6 20	15 35.90	-6 2.3	1.609	2.492	14.4	18.7	6 20	15 32.78	-23 32.1	1.662	2.577	12.2	20.4
6 30	15 33.19	-6 28.0	1.699	2.505	17.3	19.0	6 30	15 29.20	-22 44.6	1.733	2.572	15.6	20.6
368439	2002 <i>WH</i> ₁₅		5 21.9 170°38	3°2/19.8	17		198617	2005 <i>AU</i> ₃₁		5 21.9 95°35	6°2/19.3	17	
4 21	16 19.66	-14 41.0	1.943	2.825	11.8	21.2	4 21	16 19.89	-2 30.7	2.038	2.905	12.0	20.2
5 1	16 13.28	-13 28.9	1.878	2.828	8.4	21.0	5 1	16 13.24	-2 3.0	1.996	2.925	9.3	20.0
5 11	16 5.19	-12 14.6	1.840	2.831	4.9	20.8	5 11	16 5.09	-1 45.5	1.978	2.944	7.0	19.9
5 21	15 56.17	-11 2.5	1.829	2.833	3.3	20.7	5 21	15 56.19	-1 41.0	1.986	2.964	6.2	19.9
5 31	15 47.19	-9 57.9	1.847	2.835	5.7	20.9	5 31	15 47.43	-1 51.5	2.022	2.982	7.6	20.0
6 10	15 39.18	-9 5.1	1.891	2.836	9.2	21.1	6 10	15 39.64	-2 16.9	2.083	3.001	10.0	20.2
6 20	15 32.85	-8 26.9	1.960	2.837	12.5	21.3	6 20	15 33.42	-2 56.1	2.168	3.019	12.5	20.4
6 30	15 28.66	-8 4.3	2.049	2.837	15.3	21.5	6 30	15 29.20	-3 46.9	2.274	3.037	14.7	20.6
463955	2014 <i>VW</i> ₇		5 21.9 341°80	0									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
313680	2003 <i>SV</i> ₂₈₇		5 21.9 156°28	0°7/21.6	17		499062	2009 <i>DK</i> ₁₂₇		5 21.9 319°31	2°8/22.7	17	
4 21	16 22.28	-20 4.1	1.871	2.748	12.4	21.8	4 21	16 18.24	-25 44.3	1.146	2.044	16.9	20.3
5 1	16 15.25	-19 38.3	1.807	2.755	8.8	21.6	5 1	16 13.94	-25 58.7	1.062	2.017	12.6	20.0
5 11	16 6.30	-19 7.2	1.768	2.762	4.7	21.3	5 11	16 6.34	-26 1.2	0.997	1.990	7.5	19.6
5 21	15 56.30	-18 32.6	1.757	2.769	0.7	21.1	5 21	15 56.38	-25 50.1	0.954	1.964	3.0	19.3
5 31	15 46.32	-17 57.6	1.773	2.774	4.2	21.3	5 31	15 45.66	-25 26.3	0.934	1.938	5.9	19.4
6 10	15 37.42	-17 26.0	1.817	2.779	8.3	21.6	6 10	15 36.09	-24 54.7	0.935	1.914	11.6	19.6
6 20	15 30.37	-17 1.0	1.885	2.783	11.9	21.8	6 20	15 29.23	-24 22.1	0.957	1.891	17.1	19.8
6 30	15 25.70	-16 45.2	1.975	2.787	15.0	22.0	6 30	15 26.15	-23 55.6	0.995	1.868	22.0	20.0
101968	1999 <i>RC</i> ₄₅		5 21.9 197°08	5°0/19.4	17		484568	2008 <i>LT</i> ₃		5 21.9 343°13	3°8/18.5	18	
4 21	16 20.62	- 8 16.5	1.902	2.780	12.2	20.2	4 21	16 10.25	- 2 28.5	3.976	4.837	6.8	20.3
5 1	16 14.06	- 7 28.4	1.835	2.777	9.1	20.0	5 1	16 6.11	- 2 7.3	3.911	4.835	5.3	20.2
5 11	16 5.68	- 6 44.5	1.793	2.774	6.2	19.9	5 11	16 1.22	- 1 51.3	3.872	4.833	4.1	20.1
5 21	15 56.25	- 6 8.9	1.777	2.770	5.1	19.8	5 21	15 55.92	- 1 42.0	3.861	4.831	3.8	20.1
5 31	15 46.76	- 5 45.5	1.789	2.766	7.0	19.9	5 31	15 50.59	- 1 40.8	3.878	4.829	4.6	20.2
6 10	15 38.17	- 5 36.5	1.827	2.760	10.2	20.1	6 10	15 45.64	- 1 48.1	3.922	4.828	6.0	20.3
6 20	15 31.26	- 5 42.8	1.888	2.755	13.4	20.3	6 20	15 41.37	- 2 4.1	3.991	4.826	7.6	20.4
6 30	15 26.56	- 6 3.7	1.970	2.748	16.2	20.4	6 30	15 38.09	- 2 28.3	4.083	4.824	9.0	20.5
425749	2011 <i>BZ</i> ₁₁₆		5 21.9 178°11	0°7/22.2	17		307252	2002 <i>LR</i> ₁		5 21.9 54°34	4°8/20.7	18	
4 21	16 21.96	-22 56.5	1.988	2.859	12.1	22.3	4 21	16 22.57	- 9 59.9	1.212	2.109	16.3	19.8
5 1	16 15.07	-22 52.3	1.917	2.861	8.6	22.1	5 1	16 15.92	- 9 49.7	1.173	2.127	11.8	19.6
5 11	16 6.24	-22 41.4	1.871	2.862	4.7	21.9	5 11	16 6.79	- 9 46.7	1.155	2.146	7.2	19.4
5 21	15 56.30	-22 24.1	1.851	2.863	0.9	21.6	5 21	15 56.38	- 9 53.6	1.161	2.165	4.8	19.3
5 31	15 46.28	-22 2.4	1.861	2.863	3.8	21.8	5 31	15 46.18	-10 12.6	1.192	2.184	7.4	19.5
6 10	15 37.23	-21 39.5	1.897	2.863	7.7	22.0	6 10	15 37.55	-10 44.0	1.246	2.204	11.6	19.8
6 20	15 29.95	-21 18.8	1.959	2.862	11.3	22.2	6 20	15 31.44	-11 26.9	1.321	2.224	15.6	20.1
6 30	15 25.00	-21 3.4	2.042	2.860	14.4	22.4	6 30	15 28.33	-12 19.8	1.414	2.243	19.0	20.4
463863	2014 <i>UH</i> ₂₃		5 21.9 260°21	1°0/21.6	17		506421	1999 <i>VY</i> ₁₀₆		5 21.9 205°72	0°7/21.4	18	
4 21	16 23.08	-17 55.3	1.531	2.417	14.2	21.3	4 21	16 18.66	-19 48.8	2.551	3.421	9.7	22.7
5 1	16 16.48	-17 58.8	1.450	2.402	10.1	21.1	5 1	16 12.41	-19 16.1	2.470	3.415	6.9	22.5
5 11	16 7.29	-18 0.0	1.393	2.388	5.5	20.8	5 11	16 4.72	-18 38.7	2.416	3.409	3.7	22.3
5 21	15 56.41	-17 59.6	1.361	2.372	1.0	20.4	5 21	15 56.22	-17 58.6	2.390	3.401	0.7	22.1
5 31	15 45.12	-17 59.4	1.355	2.357	5.0	20.6	5 31	15 47.64	-17 18.2	2.394	3.393	3.4	22.3
6 10	15 34.85	-18 1.9	1.375	2.341	10.0	20.9	6 10	15 39.76	-16 40.6	2.426	3.385	6.7	22.5
6 20	15 26.73	-18 9.9	1.418	2.325	14.5	21.1	6 20	15 33.19	-16 8.5	2.485	3.375	9.7	22.7
6 30	15 21.54	-18 25.5	1.480	2.309	18.3	21.3	6 30	15 28.38	-15 44.0	2.567	3.365	12.3	22.8
75669	2000 <i>AH</i> ₈₈		5 21.9 105°34	1°4/21.2	18		208166	2000 <i>OB</i> ₄₂		5 21.9 257°90	2°4/22.9	17	
4 21	16 21.55	-18 13.3	1.671	2.555	13.3	19.6	4 21	16 22.44	-27 42.4	1.550	2.424	14.7	20.0
5 1	16 14.80	-17 45.1	1.619	2.570	9.3	19.4	5 1	16 16.08	-27 27.6	1.467	2.410	10.9	19.7
5 11	16 6.05	-17 13.2	1.591	2.585	5.0	19.2	5 11	16 7.08	-26 58.4	1.407	2.395	6.5	19.4
5 21	15 56.28	-16 40.2	1.589	2.599	1.4	19.0	5 21	15 56.43	-26 14.7	1.372	2.381	2.6	19.2
5 31	15 46.62	-16 9.5	1.614	2.614	4.7	19.2	5 31	15 45.48	-25 19.4	1.363	2.366	4.8	19.3
6 10	15 38.18	-15 44.7	1.665	2.627	8.9	19.5	6 10	15 35.70	-24 18.4	1.380	2.351	9.5	19.5
6 20	15 31.73	-15 28.6	1.740	2.641	12.6	19.8	6 20	15 28.20	-23 18.7	1.420	2.335	13.9	19.7
6 30	15 27.77	-15 23.0	1.836	2.654	15.7	20.0	6 30	15 23.72	-22 26.7	1.480	2.319	17.8	19.9
21047	Hodierna		5 21.9 278°68	0°2/22.1	18		355693	2008 <i>FM</i> ₃₁		5 21.9 334°60	2°1/20.8	16	
4 21	16 14.09	-21 44.3	3.175	4.044	8.1	19.0	4 21	16 15.40	-16 15.6	1.920	2.809	11.6	20.7
5 1	16 9.07	-21 39.6	3.085	4.029	5.7	18.8	5 1	16 10.48	-15 40.9	1.848	2.801	8.2	20.4
5 11	16 2.90	-21 31.2	3.022	4.014	3.1	18.6	5 11	16 3.81	-15 4.0	1.800	2.794	4.6	20.2
5 21	15 56.04	-21 19.7	2.987	3.999	0.4	18.4	5 21	15 56.14	-14 27.7	1.778	2.787	2.1	20.0
5 31	15 49.07	-21 6.4	2.981	3.984	2.6	18.6	5 31	15 48.37	-13 55.4	1.784	2.780	4.8	20.2
6 10	15 42.57	-20 52.8	3.005	3.968	5.3	18.7	6 10	15 41.43	-13 30.4	1.815	2.774	8.5	20.4
6 20	15 37.05	-20 40.7	3.055	3.953	7.8	18.9	6 20	15 36.05	-13 15.0	1.870	2.769	12.0	20.6
6 30	15 32.89	-20 31.8	3.128	3.938	10.0	19.0	6 30	15 32.76	-13 10.7	1.946	2.763	15.0	20.8
112395	2002 <i>NK</i> ₃₃		5 21.9 301°22	3°3/23.6	18		141529	2002 <i>FG</i> ₂₄		5 21.9 141°47	1°6/22.7	18	
4 21	16 18.71	-30 27.2	1.824	2.689	13.3	18.9	4 21	16 20.17	-25 33.6	2.835	3.691	9.4	20.4
5 1	16 13.15	-30 17.6	1.738	2.673	10.0	18.7	5 1	16 13.39	-25 54.9	2.767	3.701	6.8	20.3
5 11	16 5.39	-29 53.6	1.675	2.657	6.4	18.4	5 11	16 5.22	-26 10.2	2.726	3.711	4.0	20.1
5 21	15 56.26	-29 14.9	1.637	2.641	3.5	18.2	5 21	15 56.26	-26 19.2	2.713	3.721	1.7	19.9
5 31	15 46.90	-28 23.3	1.625	2.625	4.7	18.3	5 31	15 47.26	-26 22.2	2.730	3.730	3.0	20.0
6 10	15 38.52	-27 23.9	1.640	2.610	8.3	18.4	6 10	15 38.93	-26 20.8	2.777	3.739	5.8	20.2
6 20	15 32.06	-26 22.6	1.679	2.594	12.1	18.6	6 20	15 31.89	-26 17.1	2.850	3.748	8.4	20.4
6 30	15 28.17	-25 25.5	1.739	2.579	15.5	18.8	6 30	15 26.57	-26 13.5	2.948	3.756	10.6	20.6
430275	2013 <i>WC</i> ₅₄		5 21.9 244°44	4°7/24.5	18		504025	2005 <i>RQ</i> ₆		5 21.9 237°29	2°2/23.1	18	
4 21	16 22.91	-35 13.1	2.080	2.917	13.0	21.2	4 21	16 24.13	-28 6.6	2.823	3.665	9.8	24.6
5 1	16 16.02	-35 12.5	1.988	2.902	10.2	21.0	5 1	16 16.42	-28 17.7	2.717	3.642	7.3	24.4
5 11	16 6.89	-34 55.3	1.920	2.886	7.2	20.7	5 11	16 6.97	-28 20.7	2.638	3.619	4.5	24.2
5 21	15 56.40	-34 20.0	1.877	2.869	5.0	20.6	5 21	15 56.42	-28 14.6	2.589	3.593	2.3	24.0
5 31	15 45.68	-33 27.6	1.862	2.852	5.4	20.6	5 31	15 45.57	-28 0.0	2.570	3.567	3.4	24.0
6 10	15 35.94	-32 22.4	1.874	2.834	8.2	20.7	6 10	15 35.28	-27 38.6	2.581	3.540	6.3	24.2
6 20	15 28.13	-31 10.8	1.911	2.816	11.5	20.9	6 20	15 26.30	-27 13.6	2.620	3.511	9.2	24.3
6 30	15 22.91	-29 59.5	1.971	2.797	14.5	21.0	6 30	15 19.22	-26 48.6	2.684	3.481	11.8	24.5
418146	2008 <i>AT</i> ₆₇		5 21.9 179°41	1°3/21.3	17		457687	2009 <i>DL</i> ₁₁₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
266365	2007 <i>ER</i> ₅₆		5 21.9 61°80'	3°3'/20.6	17		381875	2010 <i>AK</i> ₄₀		5 21.9 199°57'	5°2'/25.1	18	
4 21	16 20.20	-13 36.6	1.500	2.393	14.0	20.3	4 21	16 22.17	-37 0.1	2.049	2.882	13.3	20.7
5 1	16 13.91	-13 4.4	1.459	2.413	9.9	20.1	5 1	16 15.39	-36 52.6	1.972	2.880	10.5	20.5
5 11	16 5.60	-12 33.7	1.441	2.433	5.7	19.9	5 11	16 6.49	-36 26.9	1.917	2.878	7.6	20.4
5 21	15 56.29	-12 7.8	1.447	2.453	3.3	19.8	5 21	15 56.40	-35 41.9	1.888	2.876	5.4	20.2
5 31	15 47.17	-11 50.2	1.480	2.474	6.0	20.0	5 31	15 46.29	-34 39.4	1.886	2.873	5.7	20.2
6 10	15 39.36	-11 43.5	1.538	2.495	9.9	20.3	6 10	15 37.32	-33 24.6	1.910	2.870	8.1	20.4
6 20	15 33.61	-11 48.7	1.618	2.515	13.6	20.5	6 20	15 30.34	-32 4.2	1.961	2.867	11.1	20.5
6 30	15 30.41	-12 5.7	1.718	2.536	16.6	20.8	6 30	15 25.92	-30 45.0	2.033	2.863	14.0	20.7
477188	2009 <i>FK</i> ₇₈		5 21.9 81°64'	1°3'/21.5	17		387795	2003 <i>WW</i> ₉₅		5 21.9 246°75'	1°0'/21.3	18	
4 21	16 20.98	-15 15.5	2.090	2.966	11.3	20.5	4 21	16 18.39	-19 31.3	2.231	3.107	10.7	21.3
5 1	16 14.27	-15 38.6	2.024	2.971	8.0	20.3	5 1	16 12.47	-18 53.4	2.144	3.092	7.6	21.1
5 11	16 5.80	-16 2.7	1.984	2.976	4.4	20.0	5 11	16 4.87	-18 10.2	2.083	3.077	4.1	20.8
5 21	15 56.32	-16 28.0	1.971	2.981	1.3	19.8	5 21	15 56.28	-17 23.7	2.050	3.061	1.0	20.5
5 31	15 46.75	-16 54.6	1.987	2.986	4.0	20.0	5 31	15 47.54	-16 37.3	2.046	3.045	3.9	20.7
6 10	15 38.03	-17 23.3	2.031	2.991	7.6	20.3	6 10	15 39.54	-15 54.5	2.069	3.028	7.6	20.9
6 20	15 30.89	-17 54.8	2.100	2.997	11.0	20.5	6 20	15 32.97	-15 18.7	2.117	3.011	11.0	21.1
6 30	15 25.88	-18 29.7	2.192	3.001	13.8	20.7	6 30	15 28.39	-14 52.4	2.188	2.994	13.9	21.3
111761	2002 <i>CZ</i> ₁₃₀		5 21.9 268°14'	7°3'/16.7	18		416389	2003 <i>UR</i> ₃₃		5 21.9 191°15'	0°9'/21.5	17	
4 21	16 15.60	+ 1 33.2	2.416	3.273	10.7	19.8	4 21	16 22.20	-19 12.5	1.897	2.774	12.3	22.5
5 1	16 10.33	+ 2 32.9	2.342	3.255	8.8	19.6	5 1	16 15.31	-18 51.9	1.825	2.773	8.7	22.3
5 11	16 3.66	+ 3 23.1	2.292	3.237	7.5	19.5	5 11	16 6.44	-18 26.7	1.777	2.771	4.7	22.1
5 21	15 56.15	+ 3 59.4	2.269	3.219	7.4	19.5	5 21	15 56.42	-17 58.7	1.757	2.769	0.9	21.8
5 31	15 48.52	+ 4 18.5	2.272	3.201	8.6	19.5	5 31	15 46.31	-17 30.5	1.765	2.765	4.3	22.0
6 10	15 41.48	+ 4 18.7	2.300	3.183	10.6	19.6	6 10	15 37.17	-17 5.7	1.800	2.762	8.4	22.3
6 20	15 35.64	+ 4 0.4	2.350	3.164	12.8	19.7	6 20	15 29.84	-16 47.2	1.860	2.757	12.1	22.5
6 30	15 31.48	+ 3 25.1	2.419	3.145	14.8	19.8	6 30	15 24.88	-16 37.4	1.941	2.752	15.2	22.7
430990	2005 <i>WC</i> ₁₈₃		5 21.9 231°99'	6°6'/25.3	18		99673	2002 <i>JP</i> ₉		5 21.9 8°80'	2°6'/21.4	18	
4 21	16 24.63	-39 23.9	2.042	2.862	13.8	21.1	4 21	16 19.47	-14 3.6	1.035	1.945	17.3	18.1
5 1	16 17.41	-39 48.2	1.957	2.851	11.3	20.9	5 1	16 14.39	-14 22.9	0.983	1.946	12.3	17.8
5 11	16 7.72	-39 54.0	1.893	2.841	8.7	20.7	5 11	16 6.30	-14 46.4	0.952	1.948	6.9	17.6
5 21	15 56.50	-39 38.2	1.855	2.829	6.9	20.6	5 21	15 56.41	-15 15.0	0.942	1.952	2.6	17.3
5 31	15 45.03	-39 0.7	1.843	2.818	7.0	20.6	5 31	15 46.38	-15 49.6	0.955	1.957	6.4	17.5
6 10	15 34.65	-38 5.1	1.857	2.805	9.1	20.7	6 10	15 37.89	-16 30.6	0.989	1.963	11.8	17.9
6 20	15 26.42	-36 58.1	1.896	2.793	11.9	20.8	6 20	15 32.17	-17 18.2	1.044	1.970	16.7	18.2
6 30	15 21.02	-35 47.1	1.956	2.780	14.7	21.0	6 30	15 29.91	-18 12.2	1.116	1.979	20.8	18.4
248472	2005 <i>UY</i> ₈₂		5 21.9 301°75'	0°5'/21.6	17		294373	2007 <i>VV</i> ₁₂₄		5 21.9 116°33'	0°4'/22.1	17	
4 21	16 16.52	-19 55.4	2.127	3.008	11.0	21.0	4 21	16 23.31	-22 11.2	1.640	2.519	13.8	21.1
5 1	16 11.20	-19 37.4	2.048	2.998	7.8	20.8	5 1	16 16.20	-22 3.7	1.584	2.532	9.8	20.9
5 11	16 4.20	-19 15.0	1.993	2.988	4.2	20.5	5 11	16 6.92	-21 49.0	1.552	2.545	5.3	20.6
5 21	15 56.20	-18 49.6	1.966	2.978	0.6	20.2	5 21	15 56.45	-21 28.2	1.546	2.557	0.7	20.3
5 31	15 48.07	-18 23.7	1.966	2.968	3.7	20.5	5 31	15 46.06	-21 3.7	1.567	2.570	4.2	20.6
6 10	15 40.69	-18 0.2	1.994	2.958	7.5	20.7	6 10	15 36.94	-20 39.6	1.614	2.581	8.7	20.9
6 20	15 34.79	-17 41.9	2.046	2.949	10.9	20.9	6 20	15 29.95	-20 19.6	1.685	2.593	12.6	21.1
6 30	15 30.90	-17 30.9	2.119	2.939	13.8	21.1	6 30	15 25.64	-20 6.7	1.777	2.603	15.8	21.4
270472	Csörgői		5 21.9 102°74'	6°1'/18.8	17		490703	2010 <i>PF</i> ₄₁		5 21.9 275°36'	3°8'/24.0	17	
4 21	16 18.39	- 5 46.1	1.815	2.696	12.6	20.8	4 21	16 20.51	-33 38.6	2.767	3.599	10.2	22.1
5 1	16 12.44	- 4 47.3	1.766	2.706	9.5	20.6	5 1	16 14.02	-33 51.3	2.655	3.567	8.0	21.9
5 11	16 4.78	- 3 55.9	1.740	2.715	6.9	20.5	5 11	16 5.78	-33 52.9	2.568	3.534	5.6	21.7
5 21	15 56.24	- 3 16.6	1.741	2.725	6.2	20.5	5 21	15 56.38	-33 42.1	2.509	3.501	3.9	21.6
5 31	15 47.77	- 2 53.1	1.767	2.734	7.9	20.6	5 31	15 46.64	-33 18.9	2.479	3.467	4.4	21.6
6 10	15 40.30	- 2 47.3	1.819	2.744	10.8	20.8	6 10	15 37.45	-32 45.5	2.477	3.433	6.7	21.7
6 20	15 34.51	- 2 58.9	1.893	2.753	13.6	21.0	6 20	15 29.59	-32 5.3	2.501	3.398	9.4	21.8
6 30	15 30.86	- 3 26.3	1.986	2.762	16.1	21.2	6 30	15 23.67	-31 22.8	2.549	3.362	12.0	21.9
411818	2012 <i>DR</i> ₃₃		5 21.9 137°81'	4°1'/19.9	17		121431	1999 <i>TX</i> ₁₆₈		5 21.9 224°61'	1°2'/21.2	18	
4 21	16 20.98	-11 46.2	1.724	2.609	12.9	21.3	4 21	16 18.27	-19 12.3	1.892	2.775	12.0	20.0
5 1	16 14.36	-10 55.6	1.670	2.618	9.3	21.1	5 1	16 12.50	-18 32.3	1.822	2.774	8.5	19.8
5 11	16 5.85	-10 6.8	1.639	2.627	5.8	20.9	5 11	16 4.91	-17 47.2	1.777	2.771	4.5	19.6
5 21	15 56.33	- 9 24.0	1.635	2.636	4.1	20.8	5 21	15 56.29	-16 59.5	1.758	2.769	1.2	19.3
5 31	15 46.88	- 8 51.2	1.658	2.644	6.4	21.0	5 31	15 47.62	-16 13.2	1.767	2.767	4.4	19.5
6 10	15 38.54	- 8 31.7	1.707	2.652	10.0	21.2	6 10	15 39.89	-15 32.3	1.803	2.765	8.3	19.8
6 20	15 32.06	- 8 26.5	1.778	2.659	13.4	21.5	6 20	15 33.85	-15 0.3	1.863	2.762	12.0	20.0
6 30	15 27.94	- 8 35.6	1.870	2.665	16.3	21.7	6 30	15 30.04	-14 39.3	1.943	2.760	15.0	20.2
390514	4209 <i>T</i> ₋₃		5 21.9 214°12'	1°4'/21.0	18		416919	2005 <i>SS</i> ₄₅		5 21.9 23°29'	2°6'/22.8	17	
4 21	16 19.01	-16 41.3	2.697	3.567	9.3	22.9	4 21	16 19.53	-26 3.3	1.255	2.147	16.2	19.6
5 1	16 12.63	-16 18.1	2.612	3.557	6.6	22.7	5 1	16 14.14	-26 17.0	1.203	2.155	11.8	19.4
5 11	16 4.85	-15 52.8	2.554	3.546	3.6	22.5	5 11	16 6.04	-26 18.7	1.172	2.163	7.0	19.1
5 21	15 56.26	-15 27.1	2.525	3.535	1.4	22.3	5 21	15 56.39	-26 7.9	1.163	2.172	2.8	18.9
5 31	15 47.56	-15 2.9	2.526	3.522	3.6	22.5	5 31	15 46.73	-25 47.0	1.179	2.182	5.1	19.1
6 10	15 39.46	-14 42.7	2.556	3.509	6.7	22.7	6 10	15 38.57	-25 20.7	1.218	2.193	9.9	19.4
6 20	15 32.58	-14 28.1	2.612	3.495	9.5	22.8	6 20	15 32.97	-24 54.7	1.279	2.205	14.3	19.7
6 30	15 27.37	-14 20.9	2.691	3.481	12.0	23.0	6 30	15 30.54	-24 34.0	1.358	2.218	18.0	19.9
144516	2004 <i>EH</i> ₇₇		5 21.9 188°95'	3°7'/20.2	18		153137	2000 <i>SB</i> ₁₉₁ </					

EPHEMERIDES

5 21.9

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
219538	2001 <i>QR</i> ₂₂₉		5 21.9 189°37	0°1/21.9 18			498078	2007 <i>RK</i> ₁₉₄		5 21.9 243°86	3°6/23.2 17		
4 21	16 20.74	-22 27.8	2.180	3.050	11.2	20.9	4 21	16 25.09	-29 10.1	1.710	2.572	14.2	22.2
5 1	16 14.08	-22 1.0	2.105	3.050	8.0	20.7	5 1	16 17.98	-29 32.5	1.623	2.557	10.7	22.0
5 11	16 5.71	-21 27.3	2.056	3.048	4.3	20.5	5 11	16 8.18	-29 42.9	1.560	2.542	6.8	21.7
5 21	15 56.36	-20 48.1	2.034	3.046	0.4	20.1	5 21	15 56.64	-29 38.9	1.522	2.526	3.8	21.5
5 31	15 46.97	-20 6.1	2.041	3.043	3.6	20.4	5 31	15 44.66	-29 20.7	1.511	2.509	5.2	21.5
6 10	15 38.45	-19 25.1	2.076	3.039	7.3	20.6	6 10	15 33.70	-28 51.7	1.526	2.492	9.2	21.7
6 20	15 31.53	-18 48.7	2.137	3.035	10.7	20.8	6 20	15 24.94	-28 17.5	1.565	2.474	13.3	21.9
6 30	15 26.71	-18 19.7	2.220	3.031	13.6	21.0	6 30	15 19.18	-27 44.2	1.625	2.456	16.9	22.1
169428	2001 <i>YL</i> ₁₂₇		5 21.9 162°94	0°8/22.4 18			224256	2005 <i>SB</i> ₂₁₇		5 21.9 187°01	1°8/21.1 18		
4 21	16 18.21	-23 35.4	2.628	3.493	9.7	20.7	4 21	16 20.20	-16 40.0	1.845	2.728	12.3	20.5
5 1	16 12.10	-23 34.0	2.557	3.497	6.9	20.6	5 1	16 13.92	-16 19.3	1.777	2.727	8.7	20.3
5 11	16 4.58	-23 27.0	2.511	3.501	3.8	20.4	5 11	16 5.72	-15 56.5	1.733	2.727	4.8	20.1
5 21	15 56.27	-23 15.0	2.493	3.504	0.9	20.2	5 21	15 56.41	-15 33.7	1.716	2.726	1.8	19.9
5 31	15 47.92	-22 59.2	2.505	3.507	3.0	20.3	5 31	15 47.03	-15 13.8	1.727	2.725	4.7	20.1
6 10	15 40.27	-22 41.8	2.545	3.510	6.1	20.5	6 10	15 38.60	-14 59.6	1.764	2.724	8.6	20.3
6 20	15 33.92	-22 25.2	2.612	3.512	8.9	20.7	6 20	15 31.94	-14 53.3	1.826	2.723	12.3	20.5
6 30	15 29.31	-22 11.8	2.702	3.514	11.4	20.9	6 30	15 27.59	-14 56.5	1.907	2.721	15.4	20.7
288253	2003 <i>YX</i> ₁₂₂		5 21.9 144°51	0°5/21.7 17			171995	2001 <i>TJ</i> ₂₃₅		5 21.9 194°01	5°4/25.4 18		
4 21	16 22.61	-19 41.0	1.821	2.699	12.7	21.3	4 21	16 21.50	-39 0.6	2.561	3.374	11.5	20.9
5 1	16 15.58	-19 31.4	1.759	2.707	9.0	21.1	5 1	16 14.73	-39 18.1	2.481	3.372	9.3	20.7
5 11	16 6.56	-19 17.4	1.722	2.716	4.8	20.9	5 11	16 6.12	-39 20.5	2.425	3.370	7.1	20.6
5 21	15 56.44	-19 0.2	1.712	2.724	0.6	20.6	5 21	15 56.45	-39 6.2	2.394	3.368	5.6	20.5
5 31	15 46.32	-18 42.2	1.729	2.731	4.2	20.8	5 31	15 46.68	-38 35.5	2.392	3.365	5.7	20.5
6 10	15 37.29	-18 26.2	1.774	2.738	8.3	21.1	6 10	15 37.80	-37 51.4	2.416	3.362	7.4	20.6
6 20	15 30.16	-18 15.3	1.843	2.744	12.0	21.3	6 20	15 30.56	-36 58.5	2.466	3.359	9.7	20.7
6 30	15 25.46	-18 11.7	1.933	2.749	15.1	21.6	6 30	15 25.53	-36 2.1	2.539	3.355	11.9	20.9
325086	2008 <i>DA</i> ₃₆		5 21.9 359°11	5°0/19.7 17			68542	2001 <i>WE</i> ₉₉		5 21.9 22°10	0°3/22.1 17		
4 21	16 17.36	-11 41.8	1.326	2.227	14.9	20.6	4 21	16 18.40	-22 28.3	1.333	2.229	15.2	19.1
5 1	16 12.34	-10 44.0	1.269	2.226	10.8	20.3	5 1	16 13.15	-22 9.9	1.278	2.234	10.8	18.9
5 11	16 4.99	-9 48.2	1.234	2.225	6.8	20.1	5 11	16 5.46	-21 42.6	1.245	2.241	5.9	18.6
5 21	15 56.31	-9 0.2	1.222	2.224	5.1	20.0	5 21	15 56.40	-21 8.5	1.236	2.248	0.6	18.2
5 31	15 47.57	-8 25.5	1.235	2.224	7.8	20.1	5 31	15 47.35	-20 31.6	1.251	2.256	4.7	18.6
6 10	15 40.06	-8 8.2	1.271	2.225	11.9	20.4	6 10	15 39.66	-19 57.0	1.291	2.264	9.7	18.9
6 20	15 34.72	-8 9.6	1.328	2.226	15.9	20.6	6 20	15 34.30	-19 29.2	1.352	2.273	14.1	19.1
6 30	15 32.12	-8 29.0	1.403	2.228	19.3	20.9	6 30	15 31.83	-19 11.7	1.433	2.283	17.7	19.4
96524	1998 <i>RY</i> ₂₈		5 21.9 232°64	3°3/23.4 18			379272	2009 <i>UJ</i> ₉₈		5 21.9 241°55	0°7/21.6 17		
4 21	16 21.23	-29 54.5	2.173	3.027	11.9	19.9	4 21	16 20.01	-19 30.3	1.770	2.654	12.7	21.3
5 1	16 14.69	-30 12.0	2.090	3.019	8.9	19.7	5 1	16 13.93	-19 14.6	1.698	2.649	9.0	21.1
5 11	16 6.16	-30 18.9	2.032	3.010	5.8	19.5	5 11	16 5.79	-18 54.3	1.650	2.644	4.8	20.8
5 21	15 56.42	-30 14.0	2.000	3.001	3.4	19.3	5 21	15 56.43	-18 31.0	1.627	2.639	0.8	20.5
5 31	15 46.46	-29 57.9	1.996	2.992	4.4	19.4	5 31	15 46.94	-18 7.3	1.632	2.634	4.3	20.8
6 10	15 37.34	-29 33.2	2.019	2.983	7.5	19.5	6 10	15 38.41	-17 46.6	1.664	2.629	8.6	21.0
6 20	15 29.92	-29 4.1	2.068	2.973	10.7	19.7	6 20	15 31.73	-17 32.0	1.719	2.623	12.5	21.2
6 30	15 24.80	-28 34.9	2.139	2.963	13.6	19.9	6 30	15 27.49	-17 26.0	1.794	2.618	15.8	21.4
183970	2004 <i>EC</i> ₈		5 21.9 319°15	5°5/24.1 17			442294	2011 <i>SU</i> ₂₄		5 21.9 176°64	5°9/17.0 18		
4 21	16 22.86	-33 8.1	1.558	2.418	15.4	19.9	4 21	16 15.07	+ 1 17.0	3.028	3.878	9.0	22.3
5 1	16 16.47	-33 39.2	1.488	2.415	12.0	19.7	5 1	16 9.66	+ 2 12.4	2.970	3.880	7.3	22.1
5 11	16 7.34	-33 54.0	1.439	2.413	8.3	19.5	5 11	16 3.21	+ 2 59.5	2.939	3.882	6.2	22.1
5 21	15 56.52	-33 49.4	1.415	2.410	5.7	19.3	5 21	15 56.21	+ 3 35.3	2.935	3.883	6.0	22.1
5 31	15 45.47	-33 25.7	1.415	2.408	6.5	19.4	5 31	15 49.20	+ 3 57.4	2.958	3.883	7.0	22.1
6 10	15 35.71	-32 47.4	1.441	2.406	9.7	19.5	6 10	15 42.74	+ 4 4.6	3.008	3.884	8.6	22.2
6 20	15 28.40	-32 1.0	1.489	2.404	13.5	19.7	6 20	15 37.27	+ 3 57.4	3.081	3.883	10.3	22.4
6 30	15 24.25	-31 14.1	1.557	2.402	16.8	20.0	6 30	15 33.15	+ 3 36.7	3.174	3.882	11.9	22.5
16910	1998 <i>DE</i> ₃₄		5 21.9 84°21	0°4/22.1 18			336237	2008 <i>SJ</i> ₁₀₆		5 21.9 83°62	0°3/22.0 17		
4 21	16 18.53	-22 32.2	2.157	3.031	11.1	18.1	4 21	16 19.72	-21 32.9	1.841	2.721	12.4	20.5
5 1	16 12.44	-22 21.0	2.100	3.046	7.9	17.9	5 1	16 13.65	-21 29.8	1.773	2.722	8.9	20.3
5 11	16 4.78	-22 4.0	2.069	3.061	4.3	17.7	5 11	16 5.61	-21 21.2	1.729	2.723	4.8	20.1
5 21	15 56.29	-21 42.1	2.064	3.076	0.6	17.4	5 21	15 56.42	-21 7.7	1.712	2.724	0.5	19.7
5 31	15 47.86	-21 17.7	2.088	3.091	3.4	17.7	5 31	15 47.14	-20 51.3	1.721	2.724	3.9	20.0
6 10	15 40.35	-20 53.5	2.139	3.106	6.9	17.9	6 10	15 38.84	-20 35.1	1.757	2.725	8.0	20.3
6 20	15 34.41	-20 32.4	2.216	3.120	10.1	18.2	6 20	15 32.34	-20 22.1	1.818	2.726	11.8	20.5
6 30	15 30.48	-20 16.9	2.315	3.135	12.8	18.4	6 30	15 28.21	-20 15.0	1.899	2.727	14.9	20.7
314212	2005 <i>NJ</i> ₁		5 21.9 256°28	3°1/23.4 12 C			127603	2003 <i>BP</i> ₂₁		5 21.9 243°97	2°0/22.8 16		
4 21	16 29.97	-30 31.0	2.331	3.166	11.8	23.6	4 21	16 23.88	-26 18.5	1.533	2.408	14.8	20.2
5 1	16 21.06	-30 32.1	2.212	3.131	9.0	23.3	5 1	16 17.17	-26 9.3	1.452	2.396	10.9	19.9
5 11	16 9.74	-30 20.4	2.117	3.093	5.8	23.0	5 11	16 7.75	-25 47.4	1.392	2.382	6.3	19.6
5 21	15 56.75	-29 54.1	2.052	3.054	3.2	22.8	5 21	15 56.62	-25 12.7	1.358	2.368	2.2	19.3
5 31	15 43.20	-29 13.4	2.018	3.013	4.4	22.8	5 31	15 45.16	-24 27.6	1.351	2.353	4.8	19.4
6 10	15 30.30	-28 21.4	2.013	2.971	7.9	22.9	6 10	15 34.85	-23 37.6	1.368	2.338	9.6	19.7
6 20	15 19.14	-27 23.7	2.037	2.926	11.6	23.1	6 20	15 26.87	-22 49.2	1.410	2.323	14.2	19.9
6 30	15 10.48	-26 26.4	2.084	2.879	14.9	23.2	6 30	15 21.97	-22 8.2	1.470	2.307	18.1	20.1
350039	2010 <i>KQ</i> ₄₀		5 21.9 293°58	6°0/18.4 18			169657	2002 <i>J</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
429829	2012 <i>PU</i> ₄		5 21.9 344°34	4°5/23.9	17		185709	1998 <i>RM</i> ₁₄		5 21.9 224°94	2°1/20.6	18	
4 21	16 17.39	-31 17.3	1.328	2.209	16.3	20.1	4 21	16 15.75	-14 31.4	2.581	3.459	9.4	20.3
5 1	16 12.83	-31 18.0	1.258	2.199	12.4	19.8	5 1	16 10.40	-14 2.9	2.507	3.454	6.7	20.1
5 11	16 5.49	-31 0.2	1.207	2.191	8.1	19.6	5 11	16 3.74	-13 34.0	2.458	3.450	3.8	19.9
5 21	15 56.43	-30 23.0	1.179	2.183	4.7	19.4	5 21	15 56.33	-13 6.7	2.438	3.445	2.1	19.8
5 31	15 47.16	-29 28.8	1.175	2.176	5.9	19.4	5 31	15 48.86	-12 43.3	2.447	3.440	4.0	19.9
6 10	15 39.22	-28 24.2	1.195	2.170	10.0	19.6	6 10	15 42.02	-12 26.0	2.483	3.435	6.9	20.1
6 20	15 33.78	-27 17.4	1.236	2.166	14.4	19.9	6 20	15 36.36	-12 16.3	2.545	3.429	9.7	20.2
6 30	15 31.55	-26 16.0	1.296	2.162	18.3	20.1	6 30	15 32.32	-12 15.2	2.629	3.424	12.1	20.4
103253	2000 <i>AC</i> ₁₃		5 21.9 199°48	0°8/22.3	18		126599	2002 <i>CU</i> ₁₃₄		5 21.9 340°03	1°6/21.2	18	
4 21	16 20.13	-23 0.4	2.140	3.011	11.3	20.2	4 21	16 18.28	-17 53.9	1.633	2.524	13.2	19.1
5 1	16 13.78	-23 0.7	2.066	3.009	8.1	20.0	5 1	16 12.81	-17 25.7	1.566	2.521	9.3	18.9
5 11	16 5.65	-22 54.8	2.016	3.007	4.5	19.8	5 11	16 5.24	-16 53.9	1.523	2.518	5.1	18.6
5 21	15 56.46	-22 43.2	1.993	3.004	0.9	19.5	5 21	15 56.47	-16 20.9	1.505	2.515	1.6	18.4
5 31	15 47.16	-22 27.3	1.999	3.002	3.5	19.7	5 31	15 47.59	-15 50.5	1.513	2.513	4.9	18.6
6 10	15 38.70	-22 9.9	2.032	2.998	7.2	20.0	6 10	15 39.76	-15 26.3	1.546	2.511	9.2	18.9
6 20	15 31.83	-21 53.8	2.091	2.995	10.6	20.2	6 20	15 33.82	-15 11.3	1.603	2.509	13.2	19.1
6 30	15 27.11	-21 42.1	2.171	2.991	13.6	20.3	6 30	15 30.37	-15 7.4	1.679	2.508	16.5	19.3
123209	2000 <i>UW</i> ₃₂		5 21.9 193°90	1°2/21.3	18		258550	2002 <i>CV</i> ₄₀		5 21.9 74°44	1°6/20.9	18	
4 21	16 19.38	-18 29.3	2.029	2.908	11.5	20.8	4 21	16 16.13	-17 47.8	2.228	3.110	10.5	20.4
5 1	16 13.24	-18 1.6	1.958	2.907	8.1	20.5	5 1	16 10.77	-17 1.3	2.163	3.114	7.4	20.2
5 11	16 5.34	-17 30.2	1.912	2.905	4.4	20.3	5 11	16 3.95	-16 11.3	2.124	3.118	4.0	20.0
5 21	15 56.44	-16 56.9	1.893	2.904	1.2	20.1	5 21	15 56.35	-15 20.9	2.112	3.122	1.6	19.8
5 31	15 47.47	-16 24.9	1.902	2.901	4.1	20.3	5 31	15 48.76	-14 33.4	2.129	3.126	4.1	20.0
6 10	15 39.38	-15 57.3	1.938	2.899	7.9	20.5	6 10	15 41.98	-13 52.2	2.173	3.130	7.4	20.2
6 20	15 32.91	-15 36.8	1.999	2.896	11.4	20.7	6 20	15 36.59	-13 20.0	2.241	3.134	10.5	20.4
6 30	15 28.57	-15 25.5	2.081	2.892	14.3	20.9	6 30	15 33.05	-12 58.3	2.332	3.138	13.1	20.6
156290	2001 <i>WK</i> ₃₆		5 21.9 159°45	1°8/20.9	18		507065	2008 <i>WN</i> ₉₂		5 21.9 233°19	0°6/22.2	17	
4 21	16 20.32	-15 59.4	2.205	3.081	10.9	21.1	4 21	16 20.28	-22 21.3	2.100	2.973	11.5	22.1
5 1	16 13.70	-15 32.8	2.141	3.088	7.7	20.9	5 1	16 13.99	-22 23.0	2.020	2.965	8.2	21.9
5 11	16 5.51	-15 4.7	2.102	3.094	4.2	20.7	5 11	16 5.82	-22 19.0	1.965	2.957	4.5	21.6
5 21	15 56.45	-14 37.2	2.091	3.100	1.8	20.6	5 21	15 56.53	-22 9.7	1.936	2.948	0.8	21.3
5 31	15 47.40	-14 12.8	2.109	3.105	4.3	20.8	5 31	15 47.05	-21 56.5	1.937	2.939	3.6	21.5
6 10	15 39.21	-13 54.3	2.155	3.110	7.7	21.0	6 10	15 38.38	-21 41.9	1.964	2.930	7.5	21.7
6 20	15 32.53	-13 43.3	2.227	3.114	10.8	21.2	6 20	15 31.31	-21 29.0	2.017	2.921	11.0	21.9
6 30	15 27.83	-13 41.2	2.320	3.117	13.5	21.4	6 30	15 26.43	-21 20.4	2.091	2.911	14.0	22.1
3800	Karayusuf		5 21.9 22°77	18°8/24.1	18		106611	2000 <i>WJ</i> ₁₂₀		5 21.9 111°20	1°0/22.3	18	
4 21	16 30.06	+11 32.4	0.564	1.460	29.1	16.0	4 21	16 25.30	-22 41.6	1.642	2.517	14.0	19.9
5 1	16 23.13	+11 20.9	0.529	1.462	25.0	15.7	5 1	16 17.69	-22 55.9	1.589	2.534	10.0	19.7
5 11	16 11.50	+10 10.4	0.506	1.465	21.2	15.5	5 11	16 7.81	-23 3.3	1.558	2.550	5.5	19.4
5 21	15 57.00	+ 7 51.1	0.497	1.469	18.9	15.4	5 21	15 56.70	-23 3.4	1.555	2.566	1.2	19.2
5 31	15 42.41	+ 4 26.7	0.504	1.474	19.5	15.4	5 31	15 45.65	-22 57.6	1.578	2.581	4.2	19.4
6 10	15 30.49	+ 0 16.7	0.526	1.480	22.7	15.6	6 10	15 35.90	-22 49.0	1.628	2.596	8.6	19.7
6 20	15 22.99	+ 4 12.8	0.564	1.487	26.9	15.9	6 20	15 28.37	-22 41.2	1.703	2.610	12.5	20.0
6 30	15 20.65	+ 8 40.6	0.616	1.495	30.9	16.2	6 30	15 23.60	-22 37.6	1.797	2.624	15.7	20.2
476453	2008 <i>EZ</i> ₅₈		5 21.9 3°86	7°1/25.9	16		237403	1998 <i>QS</i> ₇₃		5 21.9 232°63	5°1/18.3	18	
4 21	16 20.78	-40 56.0	2.055	2.872	13.8	20.9	4 21	16 17.29	- 6 49.7	2.345	3.218	10.4	20.2
5 1	16 14.65	-41 26.1	1.983	2.872	11.4	20.8	5 1	16 11.58	- 5 41.3	2.269	3.207	7.9	20.0
5 11	16 6.26	-41 37.3	1.932	2.872	9.0	20.6	5 11	16 4.42	- 4 36.3	2.220	3.194	5.7	19.8
5 21	15 56.53	-41 27.1	1.906	2.873	7.4	20.5	5 21	15 56.41	- 3 38.9	2.198	3.181	5.2	19.8
5 31	15 46.68	-40 55.4	1.905	2.874	7.4	20.5	5 31	15 48.30	- 2 53.3	2.204	3.168	6.8	19.8
6 10	15 37.94	-40 6.1	1.930	2.875	9.0	20.6	6 10	15 40.86	- 2 22.2	2.237	3.154	9.4	20.0
6 20	15 31.26	-39 5.0	1.978	2.876	11.4	20.8	6 20	15 34.70	- 2 7.0	2.293	3.139	12.0	20.1
6 30	15 27.24	-37 59.2	2.048	2.878	13.9	20.9	6 30	15 30.30	- 2 7.3	2.370	3.125	14.4	20.3
309074	2006 <i>VH</i> ₂₃		5 21.9 248°23	0°3/21.8	18		286279	2001 <i>VM</i> ₉₂		5 21.9 210°80	3°5/19.5	18	
4 21	16 17.28	-20 53.7	2.303	3.179	10.5	21.5	4 21	16 16.53	- 8 37.0	2.910	3.780	8.7	21.9
5 1	16 11.67	-20 32.7	2.224	3.172	7.4	21.3	5 1	16 10.82	- 8 4.1	2.834	3.772	6.4	21.7
5 11	16 4.49	-20 6.6	2.170	3.164	4.0	21.0	5 11	16 3.93	- 7 34.0	2.784	3.764	4.3	21.6
5 21	15 56.39	-19 37.0	2.144	3.156	0.4	20.7	5 21	15 56.37	- 7 9.1	2.762	3.755	3.5	21.5
5 31	15 48.19	-19 6.0	2.146	3.148	3.4	21.0	5 31	15 48.74	- 6 51.5	2.770	3.746	4.9	21.6
6 10	15 40.72	-18 36.7	2.176	3.140	7.0	21.2	6 10	15 41.64	- 6 42.8	2.806	3.736	7.2	21.7
6 20	15 34.64	-18 11.8	2.232	3.132	10.2	21.4	6 20	15 35.59	- 6 43.8	2.867	3.726	9.5	21.9
6 30	15 30.47	-17 53.8	2.309	3.124	13.0	21.6	6 30	15 30.99	- 6 54.5	2.951	3.715	11.6	22.0
393286	2013 <i>YR</i> ₆		5 21.9 229°93	3°8/20.3	18		345932	2007 <i>RR</i> ₂₄₆		5 21.9 248°52	0°8/22.5	18	
4 21	16 20.49	- 9 30.0	2.146	3.020	11.2	20.9	4 21	16 19.25	-24 35.5	2.348	3.214	10.7	21.8
5 1	16 14.00	- 9 15.4	2.067	3.010	8.2	20.6	5 1	16 13.14	-24 13.6	2.256	3.197	7.7	21.5
5 11	16 5.78	- 9 4.8	2.014	2.999	5.2	20.4	5 11	16 5.34	-23 43.5	2.189	3.179	4.3	21.3
5 21	15 56.51	- 9 0.5	1.988	2.987	3.8	20.3	5 21	15 56.51	-23 6.1	2.150	3.161	1.0	21.0
5 31	15 47.07	- 9 4.5	1.991	2.976	5.7	20.4	5 31	15 47.49	-22 23.6	2.140	3.143	3.3	21.2
6 10	15 38.36	- 9 18.2	2.020	2.963	8.8	20.6	6 10	15 39.19	-21 39.6	2.158	3.124	6.9	21.4
6 20	15 31.13	- 9 42.0	2.075	2.951	12.0	20.8	6 20	15 32.33	-20 57.7	2.202	3.104	10.3	21.5
6 30	15 25.91	-10 15.7	2.151	2.938	14.7	20.9	6 30	15 27.45	-20 21.5	2.269	3.084	13.2	21.7
513045	2017 <i>VN</i> ₇		5 21.9 218°99	1°4/22.7	17		266740	2009 <i>ST</i> ₃₃ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
506528	2004 <i>TR</i> ₉₇		5 21.9 294°67	1.6°/21.2	17		339464	2005 <i>EL</i> ₂₃₁		5 21.9 220°86	3°0'/20.4	17	
4 21	16 18.67	-17 53.8	1.662	2.552	13.1	21.2	4 21	16 17.95	-13 5.1	2.037	2.920	11.3	21.2
5 1	16 13.23	-17 26.7	1.580	2.534	9.3	20.9	5 1	16 12.23	-12 31.6	1.968	2.917	8.1	21.0
5 11	16 5.58	-16 55.4	1.522	2.517	5.1	20.6	5 11	16 4.84	-11 58.7	1.924	2.914	4.8	20.8
5 21	15 56.54	-16 22.3	1.489	2.500	1.6	20.4	5 21	15 56.50	-11 29.3	1.907	2.911	3.0	20.6
5 31	15 47.23	-15 51.0	1.482	2.482	5.0	20.5	5 31	15 48.09	-11 6.3	1.917	2.908	5.2	20.8
6 10	15 38.81	-15 25.4	1.501	2.465	9.5	20.8	6 10	15 40.50	-10 52.4	1.955	2.905	8.6	21.0
6 20	15 32.25	-15 8.8	1.543	2.448	13.6	21.0	6 20	15 34.42	-10 49.0	2.016	2.902	11.8	21.2
6 30	15 28.24	-15 3.6	1.604	2.431	17.2	21.2	6 30	15 30.38	-10 56.8	2.098	2.898	14.6	21.3
87238	2000 <i>OA</i> ₄₅		5 21.9 300°63	0°3'/22.1	18		150326	1999 <i>VO</i> ₁₃₄		5 21.9 358°67	2°2'/22.4	15	
4 21	16 19.01	-23 2.8	1.573	2.459	13.8	18.7	4 21	16 21.24	-22 50.3	0.975	1.882	18.4	19.9
5 1	16 13.73	-22 36.7	1.482	2.433	10.0	18.4	5 1	16 16.16	-23 30.5	0.919	1.879	13.4	19.6
5 11	16 5.98	-22 0.4	1.413	2.407	5.5	18.1	5 11	16 7.58	-24 3.5	0.881	1.877	7.6	19.2
5 21	15 56.59	-21 15.0	1.369	2.381	0.7	17.7	5 21	15 56.77	-24 26.7	0.865	1.876	2.4	18.9
5 31	15 46.78	-20 24.3	1.351	2.355	4.6	17.9	5 31	15 45.61	-24 40.0	0.871	1.876	6.0	19.1
6 10	15 37.88	-19 33.4	1.358	2.329	9.6	18.1	6 10	15 36.14	-24 46.7	0.898	1.877	11.8	19.5
6 20	15 31.00	-18 48.3	1.388	2.303	14.2	18.3	6 20	15 29.80	-24 51.4	0.944	1.879	17.2	19.8
6 30	15 26.93	-18 13.6	1.438	2.278	18.2	18.5	6 30	15 27.44	-24 59.3	1.006	1.882	21.6	20.0
276098	2002 <i>EP</i> ₅₅		5 21.9 114°26	5°6'/18.8	17		504789	2010 <i>AY</i> ₃₃		5 21.9 296°46	3°6'/20.5	17	
4 21	16 19.52	- 5 35.6	2.082	2.954	11.5	21.5	4 21	16 19.00	-11 50.0	1.736	2.623	12.7	21.1
5 1	16 13.05	- 4 35.5	2.038	2.974	8.7	21.3	5 1	16 13.28	-11 30.5	1.663	2.614	9.2	20.9
5 11	16 5.13	- 3 42.3	2.020	2.993	6.4	21.2	5 11	16 5.54	-11 13.6	1.614	2.604	5.6	20.7
5 21	15 56.50	- 3 0.1	2.029	3.011	5.7	21.2	5 21	15 56.58	-11 2.1	1.591	2.595	3.6	20.5
5 31	15 48.00	- 2 32.3	2.066	3.029	7.3	21.3	5 31	15 47.43	-10 58.7	1.595	2.586	5.9	20.6
6 10	15 40.44	- 2 20.5	2.128	3.046	9.8	21.5	6 10	15 39.18	-11 5.6	1.624	2.578	9.7	20.8
6 20	15 34.41	- 2 24.5	2.214	3.063	12.3	21.7	6 20	15 32.69	-11 23.6	1.676	2.569	13.4	21.0
6 30	15 30.33	- 2 43.1	2.319	3.079	14.5	21.9	6 30	15 28.56	-11 52.8	1.748	2.560	16.6	21.2
464771	2003 <i>UQ</i> ₂₁₉		5 21.9 245°73	0°1'/22.0	17		253518	2003 <i>SV</i> ₁₆₇		5 21.9 267°98	0°1'/21.9	18	
4 21	16 21.59	-22 49.1	1.679	2.559	13.5	21.6	4 21	16 23.23	-20 6.0	1.585	2.468	14.0	21.1
5 1	16 15.28	-22 17.0	1.598	2.547	9.7	21.4	5 1	16 16.73	-20 11.9	1.498	2.449	10.0	20.8
5 11	16 6.67	-21 35.2	1.541	2.534	5.3	21.1	5 11	16 7.63	-20 13.4	1.435	2.429	5.5	20.5
5 21	15 56.65	-20 45.5	1.509	2.521	0.5	20.7	5 21	15 56.78	-20 10.8	1.397	2.409	0.5	20.0
5 31	15 46.41	-19 51.8	1.505	2.508	4.4	21.0	5 31	15 45.46	-20 5.3	1.386	2.389	4.7	20.3
6 10	15 37.21	-18 59.2	1.527	2.494	9.1	21.2	6 10	15 35.07	-20 0.0	1.400	2.368	9.7	20.5
6 20	15 30.01	-18 13.2	1.572	2.479	13.3	21.4	6 20	15 26.75	-19 58.1	1.438	2.347	14.2	20.7
6 30	15 25.48	-17 37.8	1.638	2.465	16.9	21.6	6 30	15 21.35	-20 2.8	1.495	2.326	18.1	20.9
131328	2001 <i>HM</i> ₂₃		5 21.9 332°39	2°2'/20.8	17		86042	1999 <i>NH</i> ₆₅		5 21.9 291°24	5°4'/18.5	18	
4 21	16 17.85	-16 8.0	1.844	2.731	12.1	20.1	4 21	16 17.21	-10 36.1	1.709	2.599	12.7	18.9
5 1	16 12.29	-15 31.7	1.777	2.730	8.6	19.9	5 1	16 12.05	- 9 8.6	1.631	2.581	9.4	18.6
5 11	16 4.91	-14 53.3	1.735	2.729	4.8	19.7	5 11	16 4.89	- 7 40.4	1.577	2.562	6.4	18.4
5 21	15 56.49	-14 15.7	1.719	2.728	2.2	19.5	5 21	15 56.52	- 6 17.8	1.549	2.543	5.5	18.3
5 31	15 48.02	-13 42.5	1.730	2.727	4.9	19.7	5 31	15 47.96	- 5 7.6	1.547	2.524	7.9	18.4
6 10	15 40.47	-13 17.1	1.767	2.726	8.7	19.9	6 10	15 40.25	- 4 15.0	1.570	2.505	11.4	18.6
6 20	15 34.60	-13 1.8	1.828	2.725	12.3	20.1	6 20	15 34.25	- 3 42.9	1.615	2.487	15.0	18.8
6 30	15 30.95	-12 58.0	1.910	2.724	15.3	20.3	6 30	15 30.57	- 3 31.9	1.679	2.468	18.1	18.9
24452	2000 <i>QU</i> ₁₆₇		5 21.9 158°68	0°4'/21.5	18		512605	2016 <i>TJ</i> ₁₅		5 21.9 36°89	4°1'/19.4	17	
4 21	16 9.99	-19 15.1	4.606	5.476	5.8	19.4	4 21	16 15.51	- 9 20.7	2.257	3.137	10.4	21.2
5 1	16 5.96	-18 56.0	4.532	5.477	4.0	19.2	5 1	16 10.35	- 8 32.3	2.194	3.139	7.7	21.0
5 11	16 1.25	-18 35.1	4.486	5.479	2.1	19.1	5 11	16 3.78	- 7 47.0	2.157	3.140	5.1	20.9
5 21	15 56.17	-18 13.3	4.469	5.480	0.4	18.9	5 21	15 56.44	- 7 8.1	2.146	3.141	4.2	20.8
5 31	15 51.08	-17 51.7	4.482	5.482	1.9	19.1	5 31	15 49.09	- 6 39.0	2.164	3.142	5.9	20.9
6 10	15 46.33	-17 31.5	4.524	5.483	3.8	19.2	6 10	15 42.46	- 6 21.8	2.207	3.143	8.6	21.1
6 20	15 42.21	-17 14.0	4.594	5.485	5.6	19.4	6 20	15 37.15	- 6 17.5	2.275	3.144	11.3	21.3
6 30	15 38.98	-16 59.9	4.688	5.486	7.1	19.5	6 30	15 33.60	- 6 25.9	2.363	3.146	13.7	21.4
480610	2015 <i>MB</i> ₁₀₆		5 21.9 6°49	7°5'/18.5	17		463085	2011 <i>SA</i> ₁₇₅		5 21.9 233°04	0°8'/21.6	16	
4 21	16 16.60	+ 0 44.6	2.029	2.895	12.1	20.7	4 21	16 23.43	-19 51.2	1.592	2.475	13.9	22.5
5 1	16 11.20	+ 1 19.2	1.973	2.895	9.8	20.5	5 1	16 16.71	-19 29.1	1.513	2.464	10.0	22.2
5 11	16 4.25	+ 1 41.5	1.941	2.896	8.0	20.4	5 11	16 7.52	-19 0.8	1.458	2.452	5.4	21.9
5 21	15 56.44	+ 1 47.8	1.933	2.897	7.5	20.4	5 21	15 56.80	-18 27.9	1.428	2.440	0.9	21.6
5 31	15 48.61	+ 1 35.6	1.951	2.898	8.8	20.5	5 31	15 45.81	-17 53.9	1.426	2.427	4.8	21.8
6 10	15 41.58	+ 1 4.9	1.994	2.900	11.0	20.6	6 10	15 35.89	-17 23.1	1.449	2.414	9.7	22.1
6 20	15 36.01	+ 0 17.1	2.059	2.901	13.4	20.8	6 20	15 28.07	-16 59.7	1.495	2.400	14.0	22.3
6 30	15 32.37	- 0 45.0	2.144	2.904	15.6	20.9	6 30	15 23.07	-16 46.9	1.562	2.385	17.8	22.5
299062	2005 <i>CC</i> ₃₄		5 21.9 254°42	2°0'/23.9	18		471854	2012 <i>YQ</i> ₂		5 21.9 143°11	2°7'/20.7	18	
4 21	16 11.85	-31 18.0	4.454	5.292	6.5	20.8	4 21	16 19.08	-11 26.0	2.463	3.336	10.0	21.5
5 1	16 7.36	-31 19.6	4.369	5.287	4.9	20.6	5 1	16 12.76	-11 20.8	2.400	3.343	7.2	21.3
5 11	16 2.04	-31 15.0	4.311	5.283	3.3	20.5	5 11	16 5.05	-11 18.2	2.363	3.350	4.3	21.2
5 21	15 56.25	-31 4.4	4.281	5.278	2.1	20.4	5 21	15 56.57	-11 19.6	2.354	3.357	2.7	21.1
5 31	15 50.41	-30 48.3	4.281	5.274	2.5	20.4	5 31	15 48.07	-11 26.3	2.374	3.364	4.4	21.2
6 10	15 44.95	-30 28.2	4.309	5.269	4.0	20.5	6 10	15 40.29	-11 39.3	2.422	3.370	7.3	21.4
6 20	15 40.22	-30 5.5	4.365	5.265	5.7	20.7	6 20	15 33.82	-11 59.2	2.496	3.376	10.0	21.6
6 30	15 36.54	-29 42.2	4.446	5.260	7.2	20.8	6 30	15 29.10	-12 26.0	2.592	3.381	12.4	21.8
416861	2005 <i>ND</i> ₃₇		5 21.9 306°92	2°4'/20.3	14 C		384491	2010 <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
241427	2008 <i>UY</i> ₃₄₁		5 21.9 341 ^o 16	0 ^o 5/22.1	17		107395	2001 <i>CR</i> ₄₉		5 21.9 46 ^o 56	5 ^o 0/19.6	18	
4 21	16 20.66	-20 11.9	1.593	2.480	13.7	20.0	4 21	16 17.90	-9 4.2	1.750	2.637	12.6	19.5
5 1	16 14.76	-20 41.3	1.522	2.474	9.8	19.7	5 1	16 12.34	-8 16.8	1.693	2.641	9.3	19.3
5 11	16 6.48	-21 7.9	1.474	2.468	5.4	19.4	5 11	16 4.96	-7 33.9	1.660	2.644	6.2	19.1
5 21	15 56.72	-21 30.8	1.451	2.463	0.7	19.1	5 21	15 56.60	-6 59.7	1.652	2.648	5.0	19.0
5 31	15 46.68	-21 50.4	1.455	2.459	4.3	19.4	5 31	15 48.22	-6 37.9	1.671	2.652	7.0	19.2
6 10	15 37.66	-22 8.1	1.484	2.455	9.0	19.6	6 10	15 40.81	-6 31.0	1.715	2.656	10.2	19.3
6 20	15 30.67	-22 26.0	1.536	2.451	13.1	19.8	6 20	15 35.12	-6 39.4	1.781	2.660	13.5	19.6
6 30	15 26.42	-22 46.6	1.609	2.448	16.6	20.1	6 30	15 31.65	-7 2.2	1.867	2.664	16.3	19.8
251811	1999 <i>TP</i> ₇₃		5 21.9 248 ^o 66	0 ^o 3/22.1	17		203757	2002 <i>RS</i> ₁₄₃		5 21.9 257 ^o 23	0 ^o 3/22.2	17	
4 21	16 22.33	-22 19.5	1.753	2.631	13.1	21.6	4 21	16 18.77	-22 25.6	2.029	2.905	11.6	20.9
5 1	16 15.83	-22 5.4	1.668	2.615	9.4	21.3	5 1	16 12.97	-22 11.4	1.952	2.899	8.3	20.6
5 11	16 7.03	-21 43.5	1.606	2.599	5.2	21.0	5 11	16 5.34	-21 50.7	1.899	2.892	4.5	20.4
5 21	15 56.77	-21 14.7	1.571	2.583	0.6	20.7	5 21	15 56.63	-21 24.4	1.874	2.886	0.6	20.1
5 31	15 46.21	-20 41.5	1.563	2.566	4.2	20.9	5 31	15 47.80	-20 55.0	1.876	2.879	3.6	20.3
6 10	15 36.57	-20 8.1	1.582	2.549	8.8	21.1	6 10	15 39.81	-20 25.8	1.906	2.873	7.6	20.5
6 20	15 28.87	-19 38.7	1.624	2.531	13.0	21.3	6 20	15 33.44	-20 0.1	1.960	2.866	11.1	20.7
6 30	15 23.80	-19 17.2	1.687	2.512	16.6	21.5	6 30	15 29.25	-19 40.9	2.035	2.859	14.2	20.9
111581	2002 <i>AE</i> ₃₇		5 21.9 151 ^o 13	4 ^o 5/19.5	18		38497	1999 <i>TK</i> ₁₃₀		5 21.9 41 ^o 36	1 ^o 8/20.9	18	
4 21	16 17.22	-5 36.3	2.535	3.404	9.9	19.7	4 21	16 16.24	-16 56.2	2.100	2.984	11.0	18.7
5 1	16 11.40	-5 10.8	2.475	3.409	7.4	19.6	5 1	16 10.97	-16 19.3	2.038	2.989	7.7	18.5
5 11	16 4.30	-4 51.2	2.440	3.414	5.3	19.4	5 11	16 4.16	-15 40.1	2.001	2.994	4.2	18.3
5 21	15 56.51	-4 39.9	2.433	3.419	4.6	19.4	5 21	15 56.52	-15 1.2	1.991	3.000	1.8	18.1
5 31	15 48.71	-4 39.0	2.454	3.423	5.9	19.5	5 31	15 48.89	-14 25.8	2.009	3.006	4.3	18.3
6 10	15 41.58	-4 49.2	2.502	3.427	8.2	19.6	6 10	15 42.09	-13 56.9	2.053	3.012	7.7	18.5
6 20	15 35.67	-5 10.6	2.575	3.431	10.6	19.8	6 20	15 36.76	-13 36.7	2.122	3.018	10.9	18.7
6 30	15 31.38	-5 42.2	2.669	3.435	12.7	20.0	6 30	15 33.35	-13 26.6	2.213	3.024	13.6	18.9
230280	2001 <i>XT</i> ₂₀₀		5 21.9 129 ^o 85	0 ^o 8/22.4	17		201584	2003 <i>SX</i> ₈₇		5 21.9 340 ^o 93	0 ^o 3/21.8	18	
4 21	16 22.48	-23 21.6	2.159	3.025	11.4	22.0	4 21	16 17.63	-23 43.0	1.597	2.484	13.6	19.3
5 1	16 15.33	-23 19.1	2.099	3.040	8.2	21.8	5 1	16 12.44	-22 36.5	1.527	2.479	9.7	19.0
5 11	16 6.47	-23 10.0	2.065	3.056	4.5	21.6	5 11	16 5.12	-21 17.7	1.479	2.474	5.2	18.8
5 21	15 56.70	-22 54.8	2.059	3.070	1.0	21.4	5 21	15 56.61	-19 50.5	1.458	2.470	0.5	18.4
5 31	15 46.99	-22 35.3	2.081	3.084	3.4	21.6	5 31	15 48.08	-18 21.1	1.463	2.466	4.5	18.7
6 10	15 38.25	-22 14.3	2.132	3.097	7.0	21.8	6 10	15 40.67	-16 56.9	1.495	2.463	9.1	18.9
6 20	15 31.19	-21 55.0	2.209	3.110	10.3	22.0	6 20	15 35.24	-15 44.1	1.549	2.460	13.3	19.2
6 30	15 26.29	-21 40.1	2.308	3.122	13.0	22.3	6 30	15 32.34	-14 46.9	1.624	2.458	16.8	19.4
411805	2012 <i>DY</i> ₉		5 21.9 181 ^o 83	1 ^o 2/22.5	17		522926	2016 <i>PJ</i> ₁₁₁		5 21.9 185 ^o 03	3 ^o 4/24.2	18	
4 21	16 23.80	-24 13.8	1.891	2.759	12.7	22.2	4 21	16 19.84	-33 20.8	2.956	3.788	9.7	22.8
5 1	16 16.61	-24 10.7	1.819	2.761	9.2	22.0	5 1	16 13.37	-33 36.7	2.876	3.788	7.5	22.6
5 11	16 7.31	-23 59.4	1.771	2.761	5.2	21.8	5 11	16 5.43	-33 42.3	2.822	3.787	5.2	22.5
5 21	15 56.79	-23 40.0	1.750	2.761	1.3	21.5	5 21	15 56.65	-33 37.0	2.795	3.786	3.6	22.4
5 31	15 46.16	-23 14.4	1.758	2.760	3.9	21.7	5 31	15 47.76	-33 21.2	2.797	3.785	4.0	22.4
6 10	15 36.57	-22 46.3	1.792	2.759	8.0	21.9	6 10	15 39.54	-32 56.9	2.827	3.783	6.0	22.5
6 20	15 28.89	-22 19.7	1.852	2.757	11.8	22.2	6 20	15 32.61	-32 27.2	2.885	3.781	8.3	22.7
6 30	15 23.71	-21 58.3	1.933	2.754	15.0	22.4	6 30	15 27.45	-31 55.8	2.966	3.778	10.5	22.8
200284	1999 <i>YE</i> ₁₂		5 21.9 271 ^o 35	1 ^o 8/21.2	18		297456	2000 <i>SD</i> ₂₇₆		5 21.9 144 ^o 27	4 ^o 9/24.7	18	
4 21	16 19.38	-16 5.3	1.921	2.804	11.9	20.3	4 21	16 24.73	-38 5.1	3.064	3.867	10.1	21.5
5 1	16 13.49	-15 54.0	1.841	2.792	8.5	20.0	5 1	16 16.88	-38 54.3	2.993	3.878	8.1	21.4
5 11	16 5.66	-15 41.6	1.786	2.779	4.7	19.8	5 11	16 7.36	-39 31.6	2.948	3.889	6.2	21.3
5 21	15 56.65	-15 29.7	1.757	2.767	1.8	19.6	5 21	15 56.83	-39 54.6	2.931	3.899	5.0	21.2
5 31	15 47.41	-15 20.6	1.755	2.754	4.6	19.7	5 31	15 46.13	-40 2.9	2.943	3.909	5.2	21.2
6 10	15 38.98	-15 16.6	1.780	2.741	8.5	19.9	6 10	15 36.15	-39 57.9	2.984	3.918	6.7	21.3
6 20	15 32.19	-15 19.7	1.830	2.728	12.2	20.1	6 20	15 27.60	-39 42.7	3.051	3.926	8.5	21.5
6 30	15 27.63	-15 31.3	1.900	2.716	15.4	20.3	6 30	15 21.02	-39 21.5	3.141	3.935	10.4	21.6
501730	2014 <i>UG</i> ₈₂		5 21.9 124 ^o 38	0 ^o 4/21.8	17		366223	2012 <i>TV</i> ₂₃₈		5 21.9 255 ^o 18	3 ^o 7/20.1	18	
4 21	16 22.32	-21 16.8	1.680	2.560	13.4	21.7	4 21	16 18.02	-11 20.1	1.984	2.867	11.5	20.7
5 1	16 15.54	-20 46.9	1.623	2.572	9.5	21.5	5 1	16 12.36	-10 45.9	1.913	2.861	8.4	20.5
5 11	16 6.69	-20 10.1	1.589	2.583	5.1	21.3	5 11	16 4.99	-10 13.8	1.867	2.855	5.2	20.3
5 21	15 56.74	-19 28.5	1.581	2.593	0.5	21.0	5 21	15 56.61	-9 46.8	1.848	2.849	3.7	20.2
5 31	15 46.86	-18 45.9	1.601	2.603	4.3	21.3	5 31	15 48.12	-9 28.1	1.855	2.843	5.8	20.3
6 10	15 38.19	-18 6.8	1.647	2.613	8.7	21.6	6 10	15 40.45	-9 20.1	1.889	2.836	9.1	20.5
6 20	15 31.55	-17 35.2	1.717	2.622	12.5	21.8	6 20	15 34.31	-9 23.9	1.947	2.830	12.3	20.6
6 30	15 27.46	-17 13.7	1.808	2.631	15.7	22.0	6 30	15 30.24	-9 39.6	2.025	2.824	15.1	20.8
211097	2002 <i>EO</i> ₉₂		5 21.9 350 ^o 06	1 ^o 5/22.5	17		248467	2005 <i>UY</i> ₇₄		5 21.9 271 ^o 27	0 ^o 4/22.2	18	
4 21	16 14.59	-24 8.5	0.964	1.877	17.9	19.1	4 21	16 16.79	-24 14.3	2.324	3.195	10.6	19.8
5 1	16 11.40	-24 2.8	0.903	1.867	13.0	18.8	5 1	16 11.33	-23 30.5	2.247	3.191	7.5	19.6
5 11	16 5.03	-23 44.1	0.861	1.858	7.4	18.5	5 11	16 4.36	-22 38.1	2.195	3.187	4.1	19.4
5 21	15 56.61	-23 13.3	0.839	1.850	1.8	18.1	5 21	15 56.55	-21 39.4	2.171	3.183	0.6	19.1
5 31	15 47.90	-22 34.7	0.838	1.844	5.6	18.3	5 31	15 48.71	-20 37.6	2.176	3.178	3.2	19.3
6 10	15 40.71	-21 55.0	0.858	1.841	11.6	18.6	6 10	15 41.66	-19 37.0	2.208	3.174	6.8	19.5
6 20	15 36.40	-21 21.4	0.896	1.839	17.0	18.9	6 20	15 36.03	-18 41.4	2.267	3.170	10.0	19.7
6 30	15 35.												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
334878	2003 <i>UQ</i> ₂₃₉		5 21.9 99°48	0°8/22.5	17		122962	2000 <i>SG</i> ₂₁₅		5 21.9 308°83	0°7/22.6	18	
4 21	16 19.38	-24 56.0	1.962	2.834	12.1	20.5	4 21	16 11.38	-24 14.1	4.075	4.937	6.6	19.5
5 1	16 13.30	-24 24.1	1.899	2.843	8.7	20.3	5 1	16 7.08	-24 7.0	3.994	4.933	4.7	19.4
5 11	16 5.44	-23 42.8	1.861	2.852	4.8	20.0	5 11	16 1.95	-23 56.0	3.939	4.928	2.7	19.2
5 21	15 56.65	-22 54.1	1.850	2.861	1.0	19.8	5 21	15 56.35	-23 41.6	3.913	4.924	0.8	19.1
5 31	15 47.91	-22 1.2	1.867	2.870	3.6	20.0	5 31	15 50.70	-23 24.8	3.917	4.919	2.0	19.2
6 10	15 40.19	-21 8.8	1.911	2.879	7.5	20.2	6 10	15 45.44	-23 7.0	3.949	4.915	4.1	19.3
6 20	15 34.22	-20 21.2	1.979	2.887	11.0	20.5	6 20	15 40.92	-22 49.6	4.009	4.910	6.1	19.4
6 30	15 30.46	-19 41.8	2.070	2.895	13.9	20.7	6 30	15 37.46	-22 34.2	4.094	4.906	7.8	19.6
65478	2003 <i>AW</i> ₅₃		5 21.9 153°10	5°3/20.3	17		262486	2006 <i>UJ</i> ₂₀₀		5 21.9 187°84	2°1/23.0	17	
4 21	16 21.82	-6 43.3	1.696	2.575	13.4	19.7	4 21	16 23.12	-27 7.6	1.993	2.854	12.4	21.8
5 1	16 15.21	-6 32.0	1.634	2.576	10.0	19.5	5 1	16 16.11	-27 6.2	1.918	2.854	9.1	21.6
5 11	16 6.57	-6 28.9	1.596	2.578	6.8	19.3	5 11	16 7.06	-26 54.5	1.867	2.853	5.4	21.4
5 21	15 56.76	-6 36.9	1.584	2.579	5.3	19.2	5 21	15 56.82	-26 32.4	1.843	2.851	2.3	21.2
5 31	15 46.87	-6 57.8	1.599	2.580	7.2	19.3	5 31	15 46.47	-26 1.5	1.848	2.849	4.0	21.3
6 10	15 37.99	-7 32.1	1.639	2.581	10.5	19.5	6 10	15 37.11	-25 25.6	1.880	2.847	7.7	21.5
6 20	15 30.98	-8 18.8	1.702	2.582	13.9	19.7	6 20	15 29.60	-24 49.2	1.937	2.843	11.3	21.7
6 30	15 26.40	-9 16.1	1.785	2.583	16.9	19.9	6 30	15 24.52	-24 16.6	2.016	2.839	14.3	21.9
370768	2004 <i>RN</i> ₃₀₁		5 21.9 200°31	0°9/22.4	17		26619	2000 <i>GP</i> ₄₄		5 21.9 272°43	1°2/21.4	18	
4 21	16 21.05	-23 36.6	2.080	2.950	11.7	21.7	4 21	16 18.07	-18 16.7	2.000	2.883	11.5	18.2
5 1	16 14.55	-23 34.1	2.005	2.948	8.4	21.4	5 1	16 12.40	-17 52.6	1.932	2.883	8.1	18.0
5 11	16 6.19	-23 24.7	1.954	2.945	4.7	21.2	5 11	16 5.01	-17 25.2	1.888	2.882	4.4	17.8
5 21	15 56.73	-23 8.7	1.930	2.941	1.1	20.9	5 21	15 56.63	-16 56.4	1.871	2.882	1.2	17.5
5 31	15 47.14	-22 47.8	1.935	2.937	3.6	21.1	5 31	15 48.20	-16 29.1	1.882	2.882	4.1	17.7
6 10	15 38.42	-22 24.9	1.967	2.933	7.4	21.3	6 10	15 40.64	-16 6.3	1.920	2.882	7.9	18.0
6 20	15 31.36	-22 3.5	2.024	2.928	10.9	21.5	6 20	15 34.66	-15 50.5	1.982	2.882	11.3	18.2
6 30	15 26.53	-21 46.7	2.103	2.923	13.9	21.7	6 30	15 30.78	-15 43.5	2.065	2.882	14.2	18.4
88228	2001 <i>BW</i> ₄₂		5 21.9 219°38	2°4/23.7	18		501254	2013 <i>VG</i> ₂₂		5 21.9 223°54	6°2/24.1	17	
4 21	16 17.72	-30 10.5	2.619	3.470	10.2	19.3	4 21	16 25.81	-35 12.5	1.876	2.715	14.1	21.4
5 1	16 11.94	-29 51.8	2.537	3.465	7.6	19.2	5 1	16 18.51	-36 9.1	1.800	2.710	11.2	21.2
5 11	16 4.67	-29 22.6	2.481	3.461	4.8	19.0	5 11	16 8.60	-36 51.2	1.746	2.706	8.3	21.0
5 21	15 56.59	-28 43.3	2.452	3.456	2.5	18.8	5 21	15 56.98	-37 14.7	1.718	2.702	6.3	20.9
5 31	15 48.46	-27 55.7	2.452	3.451	3.4	18.9	5 31	15 44.98	-37 18.0	1.716	2.697	6.8	20.9
6 10	15 41.06	-27 3.4	2.481	3.446	6.1	19.0	6 10	15 34.04	-37 3.6	1.740	2.692	9.4	21.1
6 20	15 35.03	-26 10.2	2.536	3.441	9.0	19.2	6 20	15 25.30	-36 36.7	1.788	2.687	12.4	21.2
6 30	15 30.81	-25 20.0	2.614	3.436	11.5	19.4	6 30	15 19.52	-36 4.1	1.857	2.681	15.3	21.4
198581	2004 <i>YR</i> ₁₂		5 21.9 204°16	2°6/20.8	17		128159	2003 <i>QJ</i> ₁₀₀		5 21.9 235°54	2°9/23.4	18	
4 21	16 19.18	-13 55.4	1.957	2.840	11.7	20.3	4 21	16 20.67	-29 4.1	1.926	2.788	12.8	19.8
5 1	16 13.20	-13 36.9	1.889	2.838	8.4	20.1	5 1	16 14.49	-29 6.3	1.851	2.785	9.5	19.6
5 11	16 5.44	-13 19.0	1.846	2.837	4.8	19.9	5 11	16 6.23	-28 56.6	1.799	2.782	6.0	19.4
5 21	15 56.66	-13 3.8	1.829	2.836	2.6	19.8	5 21	15 56.75	-28 34.8	1.774	2.779	3.1	19.2
5 31	15 47.80	-12 53.8	1.840	2.834	4.9	19.9	5 31	15 47.14	-28 2.3	1.776	2.776	4.3	19.2
6 10	15 39.79	-12 51.2	1.877	2.833	8.5	20.1	6 10	15 38.53	-27 23.1	1.804	2.772	7.8	19.5
6 20	15 33.40	-12 57.3	1.939	2.831	11.9	20.3	6 20	15 31.77	-26 42.0	1.858	2.769	11.4	19.7
6 30	15 29.15	-13 12.8	2.022	2.830	14.8	20.5	6 30	15 27.46	-26 3.8	1.932	2.766	14.5	19.9
459512	2013 <i>EA</i> ₂₆		5 21.9 38°18	1°4/21.5	17		481192	2005 <i>UB</i> ₃₉₉		5 21.9 314°03	1°5/21.0	16	
4 21	16 21.07	-18 52.2	1.169	2.070	16.4	21.5	4 21	16 15.86	-18 21.5	2.078	2.962	11.0	20.9
5 1	16 15.34	-18 27.2	1.117	2.076	11.6	21.2	5 1	16 10.84	-17 37.4	2.001	2.953	7.8	20.7
5 11	16 6.84	-17 56.9	1.086	2.082	6.3	21.0	5 11	16 4.18	-16 48.9	1.949	2.943	4.2	20.5
5 21	15 56.79	-17 24.3	1.078	2.089	1.5	20.7	5 21	15 56.57	-15 58.7	1.924	2.934	1.5	20.3
5 31	15 46.76	-16 53.9	1.094	2.096	5.7	21.0	5 31	15 48.87	-15 10.5	1.926	2.925	4.2	20.4
6 10	15 38.25	-16 30.8	1.133	2.104	11.0	21.3	6 10	15 41.93	-14 28.1	1.956	2.916	7.9	20.6
6 20	15 32.36	-16 18.4	1.193	2.112	15.7	21.6	6 20	15 36.47	-13 54.6	2.010	2.908	11.3	20.8
6 30	15 29.66	-16 19.0	1.270	2.120	19.6	21.8	6 30	15 32.98	-13 32.2	2.085	2.899	14.2	21.0
325776	2010 <i>OV</i> ₁₄		5 21.9 246°08	1°8/21.3	18		292887	2006 <i>VU</i> ₂₉		5 21.9 164°49	0°1/22.0	17	
4 21	16 22.88	-16 0.6	1.801	2.681	12.7	20.9	4 21	16 18.95	-20 32.2	2.489	3.359	10.0	20.8
5 1	16 16.16	-15 51.3	1.716	2.665	9.1	20.6	5 1	16 12.80	-20 38.5	2.418	3.362	7.1	20.6
5 11	16 7.21	-15 40.9	1.655	2.648	5.0	20.3	5 11	16 5.16	-20 41.4	2.372	3.364	3.8	20.4
5 21	15 56.84	-15 30.8	1.621	2.631	1.8	20.1	5 21	15 56.67	-20 41.3	2.354	3.366	0.4	20.1
5 31	15 46.14	-15 23.3	1.615	2.613	4.9	20.2	5 31	15 48.09	-20 39.2	2.366	3.368	3.1	20.3
6 10	15 36.28	-15 20.8	1.635	2.595	9.2	20.5	6 10	15 40.22	-20 36.9	2.406	3.370	6.4	20.5
6 20	15 28.23	-15 25.6	1.680	2.576	13.2	20.7	6 20	15 33.69	-20 36.2	2.472	3.371	9.4	20.7
6 30	15 22.69	-15 39.3	1.745	2.557	16.7	20.8	6 30	15 28.96	-20 38.9	2.561	3.372	12.0	20.9
386484	2008 <i>YF</i> ₁₇₂		5 21.9 261°47	4°5/24.3	17		149770	2004 <i>QO</i> ₁₀		5 21.9 13°58	3°7/20.2	18	
4 21	16 20.58	-33 47.6	2.120	2.964	12.5	21.1	4 21	16 17.12	-9 6.1	2.244	3.122	10.6	19.9
5 1	16 14.36	-34 5.0	2.046	2.964	9.7	20.9	5 1	16 11.55	-8 50.8	2.179	3.123	7.8	19.7
5 11	16 6.13	-34 8.6	1.995	2.963	6.8	20.8	5 11	16 4.50	-8 39.9	2.139	3.123	5.0	19.5
5 21	15 56.73	-33 57.0	1.970	2.963	4.7	20.6	5 21	15 56.62	-8 35.5	2.126	3.124	3.7	19.5
5 31	15 47.21	-33 31.1	1.972	2.962	5.2	20.7	5 31	15 48.68	-8 39.5	2.141	3.125	5.4	19.6
6 10	15 38.64	-32 54.1	2.001	2.962	7.7	20.8	6 10	15 41.47	-8 53.0	2.182	3.126	8.2	19.7
6 20	15 31.87	-32 10.9	2.055	2.961	10.7	21.0	6 20	15 35.61	-9 16.2	2.248	3.127	11.1	19.9
6 30	15 27.47	-31 26.7	2.130	2.961	13.4	21.2	6 30	15 31.57	-9 48.7	2.336	3.128	13.5	20.1
42613	1998 <i>EC</i> ₄		5 21.9 103°01	2°7/20.8	18		185043	2006 <i>QA</i> ₁₅₃ </					

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5 21.9

5 22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
185654	3980 T ₋₃		5 21.9 250°44	0°5/21.7	18		101640	1999 CG ₄₈		5 22.0 72°69	9°5/17.8	17	
4 21	16 18.19	-20 7.2	2.111	2.989	11.2	20.4	4 21	16 19.30	+ 1 31.1	1.594	2.465	14.6	18.8
5 1	16 12.49	-19 47.0	2.035	2.983	7.9	20.2	5 1	16 13.35	+ 2 38.9	1.554	2.477	11.9	18.6
5 11	16 5.08	-19 22.0	1.984	2.978	4.2	19.9	5 11	16 5.53	+ 3 30.8	1.537	2.489	9.9	18.6
5 21	15 56.67	-18 53.9	1.960	2.972	0.6	19.6	5 21	15 56.75	+ 4 1.1	1.543	2.501	9.6	18.6
5 31	15 48.16	-18 25.2	1.964	2.966	3.7	19.9	5 31	15 48.08	+ 4 6.2	1.573	2.513	11.0	18.7
6 10	15 40.44	-17 58.8	1.995	2.960	7.5	20.1	6 10	15 40.55	+ 3 46.0	1.626	2.525	13.4	18.8
6 20	15 34.25	-17 37.7	2.051	2.953	10.9	20.3	6 20	15 34.88	+ 3 2.9	1.700	2.538	15.9	19.0
6 30	15 30.11	-17 24.2	2.129	2.947	13.8	20.5	6 30	15 31.55	+ 2 1.3	1.791	2.550	18.2	19.2
270388	2002 AV ₁₃₈		5 21.9 204°57	2°2/20.7	18		284570	2007 TR ₅₅		5 22.0 235°53	0°5/22.3	18	
4 21	16 19.93	-15 8.0	2.264	3.140	10.6	21.6	4 21	16 18.95	-22 51.6	2.156	3.029	11.2	21.2
5 1	16 13.57	-14 35.3	2.188	3.134	7.6	21.4	5 1	16 13.05	-22 39.0	2.078	3.023	8.0	21.0
5 11	16 5.62	-14 1.3	2.137	3.129	4.3	21.2	5 11	16 5.41	-22 20.0	2.025	3.017	4.4	20.7
5 21	15 56.73	-13 28.3	2.115	3.122	2.2	21.1	5 21	15 56.75	-21 55.3	1.998	3.010	0.7	20.4
5 31	15 47.75	-12 59.2	2.121	3.115	4.5	21.2	5 31	15 47.96	-21 27.2	2.001	3.004	3.5	20.6
6 10	15 39.52	-12 36.6	2.155	3.107	7.8	21.4	6 10	15 39.98	-20 58.6	2.030	2.997	7.2	20.8
6 20	15 32.73	-12 22.6	2.215	3.099	11.0	21.6	6 20	15 33.53	-20 32.9	2.085	2.990	10.6	21.0
6 30	15 27.86	-12 18.4	2.296	3.090	13.7	21.7	6 30	15 29.16	-20 12.9	2.162	2.983	13.6	21.2
64193	2001 TD ₇₁		5 21.9 65°45	0°3/21.9	18		211	Isolda		5 22.0 158°56	0°6/22.4	18	
4 21	16 23.67	-19 35.6	1.283	2.176	15.9	18.8	4 21	16 18.13	-23 43.3	2.624	3.489	9.7	13.4
5 1	16 17.13	-19 44.2	1.227	2.182	11.3	18.5	5 1	16 12.15	-23 25.6	2.553	3.494	6.9	13.2
5 11	16 7.84	-19 48.5	1.192	2.187	6.1	18.3	5 11	16 4.79	-23 1.8	2.509	3.499	3.8	13.0
5 21	15 56.94	-19 48.8	1.182	2.194	0.6	17.9	5 21	15 56.69	-22 32.8	2.492	3.504	0.8	12.7
5 31	15 45.97	-19 47.2	1.196	2.200	5.1	18.2	5 31	15 48.58	-22 0.7	2.505	3.508	2.9	12.9
6 10	15 36.44	-19 46.6	1.235	2.206	10.3	18.5	6 10	15 41.18	-21 28.0	2.547	3.512	6.1	13.1
6 20	15 29.46	-19 50.4	1.295	2.212	14.9	18.8	6 20	15 35.09	-20 57.7	2.615	3.515	8.9	13.3
6 30	15 25.68	-20 1.2	1.374	2.219	18.7	19.1	6 30	15 30.72	-20 32.2	2.706	3.518	11.4	13.5
201650	2003 TS ₃		5 21.9 297°11	0°2/22.1	17		248064	2004 NH ₃₁		5 22.0 265°28	7°7/27.6	18	
4 21	16 19.42	-21 24.4	1.806	2.688	12.6	20.5	4 21	16 24.73	-48 45.3	2.808	3.559	12.1	20.7
5 1	16 13.68	-21 22.0	1.729	2.679	9.0	20.2	5 1	16 17.34	-49 0.6	2.704	3.536	10.6	20.6
5 11	16 5.86	-21 14.1	1.676	2.670	4.9	20.0	5 11	16 7.81	-48 56.6	2.622	3.512	9.0	20.4
5 21	15 56.77	-21 1.3	1.649	2.661	0.5	19.6	5 21	15 56.98	-48 30.1	2.564	3.488	7.9	20.3
5 31	15 47.47	-20 45.6	1.649	2.653	4.0	19.9	5 31	15 45.95	-47 40.6	2.532	3.464	7.7	20.3
6 10	15 39.08	-20 30.0	1.676	2.644	8.3	20.1	6 10	15 35.88	-46 30.7	2.526	3.439	8.7	20.3
6 20	15 32.49	-20 17.6	1.726	2.636	12.2	20.3	6 20	15 27.66	-45 5.6	2.546	3.414	10.3	20.4
6 30	15 28.31	-20 11.4	1.797	2.628	15.5	20.5	6 30	15 21.93	-43 32.1	2.589	3.388	12.2	20.4
44392	1998 SY ₆₅		5 22.0 281°50	1°8/21.2	18		346093	2007 VF ₃₁		5 22.0 86°00	0°2/22.2	17	
4 21	16 18.80	-16 8.8	1.901	2.785	11.9	18.5	4 21	16 19.31	-23 51.5	2.168	3.038	11.2	21.2
5 1	16 13.10	-15 52.9	1.825	2.776	8.5	18.3	5 1	16 13.01	-23 5.6	2.116	3.060	7.9	21.0
5 11	16 5.49	-15 35.6	1.773	2.766	4.7	18.1	5 11	16 5.22	-22 12.1	2.089	3.081	4.3	20.8
5 21	15 56.74	-15 18.9	1.747	2.757	1.8	17.8	5 21	15 56.72	-21 13.3	2.091	3.103	0.5	20.6
5 31	15 47.82	-15 5.2	1.749	2.747	4.6	18.0	5 31	15 48.39	-20 13.0	2.121	3.124	3.4	20.8
6 10	15 39.72	-14 57.1	1.777	2.738	8.5	18.2	6 10	15 41.06	-19 15.5	2.179	3.144	6.9	21.1
6 20	15 33.26	-14 56.6	1.829	2.728	12.2	18.4	6 20	15 35.31	-18 24.4	2.263	3.165	10.1	21.3
6 30	15 29.02	-15 5.1	1.901	2.719	15.3	18.6	6 30	15 31.56	-17 42.7	2.370	3.185	12.7	21.5
437527	2013 YR ₁₀₆		5 22.0 251°39	5°0/19.6	18		504030	2005 TF ₁₉₅		5 22.0 218°41	0°3/21.9	17	
4 21	16 18.63	- 7 29.6	1.979	2.857	11.8	21.3	4 21	16 21.16	-20 41.6	1.995	2.870	11.9	23.0
5 1	16 12.83	- 6 54.2	1.907	2.849	8.8	21.1	5 1	16 14.72	-20 26.2	1.916	2.863	8.4	22.8
5 11	16 5.29	- 6 24.1	1.861	2.841	6.1	20.9	5 11	16 6.36	-20 5.4	1.863	2.856	4.6	22.5
5 21	15 56.73	- 6 2.8	1.840	2.832	5.0	20.8	5 21	15 56.85	-19 40.5	1.836	2.848	0.5	22.2
5 31	15 48.04	- 5 53.2	1.846	2.823	6.8	20.9	5 31	15 47.18	-19 13.7	1.838	2.840	3.9	22.4
6 10	15 40.13	- 5 57.4	1.879	2.814	9.8	21.1	6 10	15 38.38	-18 48.3	1.866	2.831	7.9	22.7
6 20	15 33.75	- 6 15.6	1.934	2.805	12.9	21.2	6 20	15 31.26	-18 27.6	1.920	2.822	11.6	22.9
6 30	15 29.45	- 6 47.1	2.010	2.796	15.6	21.4	6 30	15 26.40	-18 14.1	1.995	2.812	14.7	23.1
162777	2000 XV ₂₃		5 22.0 158°66	2°1/24.0	18		351993	2006 UG ₁₈₈		5 22.0 227°51	3°0/23.9	18	
4 21	16 14.56	-31 35.2	4.150	4.985	7.1	20.9	4 21	16 19.57	-31 44.7	2.612	3.455	10.5	21.6
5 1	16 9.30	-31 28.7	4.075	4.991	5.3	20.8	5 1	16 13.35	-31 36.3	2.523	3.445	7.9	21.5
5 11	16 3.15	-31 15.2	4.025	4.997	3.5	20.7	5 11	16 5.53	-31 16.5	2.460	3.435	5.2	21.3
5 21	15 56.53	-30 54.8	4.005	5.003	2.2	20.6	5 21	15 56.77	-30 45.2	2.424	3.424	3.1	21.1
5 31	15 49.90	-30 28.6	4.014	5.008	2.6	20.6	5 31	15 47.90	-30 3.6	2.417	3.413	3.8	21.1
6 10	15 43.73	-29 58.1	4.053	5.013	4.2	20.7	6 10	15 39.77	-29 15.0	2.438	3.401	6.4	21.3
6 20	15 38.42	-29 25.4	4.119	5.017	6.0	20.8	6 20	15 33.05	-28 23.5	2.486	3.390	9.2	21.4
6 30	15 34.27	-28 52.6	4.211	5.022	7.6	21.0	6 30	15 28.25	-27 33.2	2.557	3.377	11.7	21.6
467495	2006 UZ ₁₅₆		5 22.0 214°10	1°2/21.4	17		252893	2002 JK ₈₈		5 22.0 47°27	5°1/23.8	18	
4 21	16 21.59	-18 31.6	1.860	2.739	12.4	22.0	4 21	16 23.87	-33 56.9	2.329	3.163	11.9	20.0
5 1	16 15.09	-18 7.7	1.784	2.733	8.8	21.7	5 1	16 16.72	-35 0.4	2.256	3.166	9.3	19.8
5 11	16 6.57	-17 39.7	1.733	2.727	4.8	21.5	5 11	16 7.50	-35 52.8	2.208	3.168	6.8	19.6
5 21	15 56.85	-17 9.4	1.709	2.720	1.2	21.2	5 21	15 56.97	-36 30.8	2.187	3.170	5.2	19.5
5 31	15 46.99	-16 39.9	1.712	2.712	4.4	21.4	5 31	15 46.15	-36 53.2	2.193	3.173	5.7	19.6
6 10	15 38.05	-16 14.6	1.743	2.705	8.6	21.7	6 10	15 36.13	-37 1.3	2.227	3.176	7.8	19.7
6 20	15 30.90	-15 56.6	1.797	2.696	12.4	21.9	6 20	15 27.82	-36 58.3	2.287	3.178	10.4	19.9
6 30	15 26.13	-15 48.1	1.873	2.687	15.6	22.1	6 30	15 21.86	-36 48.9	2.368	3.181	12.8	20.0
278804	2008 SM ₂₄₁		5 22.0 177°63	0°1/21.9	18		350339	2012 UO ₁₀₂		5 22.0 84°79	1°1/22.4	17	
4 21	16 20.50	-20 49											