

EPHEMERIDES

7 8.9

7 9.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
385248	2001 <i>BH</i> ₇₉		7 8.9 203°20	2°1/ 8.4	18		424513	2008 <i>ES</i> ₂₃		7 8.9 218°00	3°0/ 7.9	17	
5 31	19 44.92	-28 42.3	2.467	3.275	12.4	22.1	5 31	19 45.31	-27 28.4	1.899	2.722	15.0	22.2
6 10	19 39.44	-28 53.8	2.373	3.270	9.8	21.9	6 10	19 40.61	-28 15.8	1.809	2.714	11.9	22.0
6 20	19 31.82	-29 4.3	2.302	3.264	6.8	21.7	6 20	19 33.14	-29 6.2	1.740	2.706	8.3	21.7
6 30	19 22.55	-29 10.7	2.257	3.258	3.7	21.5	6 30	19 23.42	-29 54.6	1.696	2.697	4.7	21.5
7 10	19 12.44	-29 10.6	2.240	3.251	2.2	21.4	7 10	19 12.42	-30 35.7	1.678	2.688	3.2	21.4
7 20	19 2.38	-29 2.6	2.252	3.244	4.7	21.5	7 20	19 1.30	-31 5.4	1.688	2.678	6.2	21.6
7 30	18 53.30	-28 46.7	2.292	3.235	7.9	21.7	7 30	18 51.36	-31 22.3	1.724	2.668	10.0	21.8
8 9	18 45.97	-28 24.3	2.357	3.227	10.8	21.9	8 9	18 43.66	-31 27.1	1.783	2.657	13.6	22.0
504970	2011 <i>GB</i> ₃₁		7 8.9 104°44	5°0/ 7.5	17		168774	2000 <i>RC</i> ₂₈		7 8.9 298°99	2°5/ 9.3	18	
5 31	19 45.03	-33 6.8	1.804	2.631	15.5	21.3	5 31	19 41.39	-18 41.2	1.349	2.193	18.8	20.0
6 10	19 40.42	-33 56.6	1.734	2.638	12.4	21.1	6 10	19 38.28	-18 7.8	1.262	2.178	15.2	19.7
6 20	19 32.91	-34 43.9	1.685	2.646	9.0	21.0	6 20	19 31.94	-17 39.9	1.193	2.164	10.7	19.4
6 30	19 23.19	-35 22.5	1.660	2.653	6.0	20.8	6 30	19 22.97	-17 17.7	1.146	2.150	5.8	19.1
7 10	19 12.37	-35 47.3	1.661	2.660	5.2	20.8	7 10	19 12.46	-17 0.7	1.122	2.136	2.6	18.9
7 20	19 1.73	-35 55.3	1.688	2.667	7.4	20.9	7 20	19 1.86	-16 48.3	1.122	2.122	6.6	19.1
7 30	18 52.57	-35 46.7	1.739	2.673	10.6	21.1	7 30	18 52.71	-16 40.3	1.145	2.109	11.8	19.3
8 9	18 45.88	-35 24.6	1.813	2.680	13.7	21.3	8 9	18 46.24	-16 36.0	1.189	2.096	16.5	19.6
189606	2000 <i>XV</i> ₃₁		7 8.9 310°50	4°0/ 8.2	18		118455	1999 <i>VP</i> ₁₉₁		7 8.9 56°40	0°8/ 8.7	18	
5 31	19 41.59	-30 38.4	1.547	2.391	16.8	19.3	5 31	19 38.86	-23 18.3	2.154	2.978	13.4	19.8
6 10	19 38.43	-30 58.0	1.452	2.369	13.5	19.1	6 10	19 34.83	-23 37.3	2.083	2.990	10.5	19.6
6 20	19 32.05	-31 16.2	1.377	2.347	9.7	18.8	6 20	19 28.72	-23 59.5	2.033	3.002	7.1	19.5
6 30	19 23.00	-31 27.9	1.324	2.326	5.7	18.5	6 30	19 21.08	-24 22.4	2.008	3.014	3.4	19.2
7 10	19 12.37	-31 28.1	1.295	2.304	4.1	18.3	7 10	19 12.71	-24 43.2	2.010	3.026	0.9	19.1
7 20	19 1.60	-31 13.8	1.291	2.284	7.3	18.5	7 20	19 4.49	-25 0.0	2.039	3.038	4.3	19.3
7 30	18 52.24	-30 45.1	1.311	2.264	11.7	18.7	7 30	18 57.30	-25 11.8	2.096	3.050	7.8	19.6
8 9	18 45.58	-30 5.2	1.352	2.244	15.9	18.9	8 9	18 51.84	-25 18.4	2.176	3.063	10.9	19.8
204056	2003 <i>US</i> ₂₄₅		7 8.9 194°60	5°3/ 6.6	18		187484	2006 <i>RK</i> ₉₇		7 8.9 195°65	2°5/ 9.7	17	
5 31	19 44.24	-34 36.8	2.252	3.066	13.2	20.7	5 31	19 43.07	-15 0.6	2.069	2.872	14.6	21.8
6 10	19 39.46	-35 46.2	2.170	3.065	10.7	20.5	6 10	19 38.25	-14 53.1	1.979	2.869	11.7	21.6
6 20	19 32.16	-36 53.8	2.111	3.063	8.0	20.3	6 20	19 31.17	-14 53.6	1.909	2.866	8.4	21.4
6 30	19 22.85	-37 53.9	2.077	3.061	5.8	20.2	6 30	19 22.35	-15 1.6	1.864	2.862	4.8	21.1
7 10	19 12.41	-38 40.9	2.070	3.058	5.4	20.1	7 10	19 12.58	-15 15.8	1.846	2.858	2.5	21.0
7 20	19 1.93	-39 11.4	2.090	3.055	7.2	20.3	7 20	19 2.81	-15 34.6	1.856	2.853	5.0	21.1
7 30	18 52.54	-39 24.5	2.136	3.052	9.8	20.4	7 30	18 54.02	-15 56.3	1.894	2.847	8.6	21.3
8 9	18 45.18	-39 22.0	2.205	3.049	12.5	20.6	8 9	18 47.04	-16 19.3	1.955	2.840	12.0	21.5
126422	2002 <i>BJ</i> ₃₀		7 8.9 288°84	10°1/ 6.8	18		5297	Schinkel		7 8.9 185°33	2°9/ 9.9	18	
5 31	19 51.53	-45 25.3	1.713	2.519	17.0	19.2	5 31	19 43.19	-13 43.3	1.732	2.544	16.7	17.5
6 10	19 46.73	-46 19.8	1.625	2.500	14.7	19.0	6 10	19 38.78	-13 46.8	1.649	2.544	13.4	17.3
6 20	19 37.97	-47 3.4	1.555	2.480	12.3	18.8	6 20	19 31.77	-14 1.9	1.585	2.544	9.6	17.1
6 30	19 25.93	-47 26.3	1.507	2.460	10.5	18.6	6 30	19 22.71	-14 27.9	1.545	2.543	5.5	16.8
7 10	19 12.06	-47 20.3	1.482	2.441	10.2	18.5	7 10	19 12.54	-15 2.7	1.530	2.542	2.9	16.6
7 20	18 58.24	-46 41.9	1.480	2.421	11.6	18.6	7 20	19 2.36	-15 43.4	1.542	2.540	5.6	16.8
7 30	18 46.45	-45 33.3	1.501	2.401	14.2	18.7	7 30	18 53.36	-16 26.6	1.580	2.537	9.7	17.1
8 9	18 38.09	-44 2.0	1.543	2.382	17.1	18.8	8 9	18 46.48	-17 9.7	1.642	2.534	13.5	17.3
288204	2003 <i>YM</i> ₁₂		7 8.9 228°38	2°7/ 7.9	18		80661	2000 <i>BF</i> ₁₀		7 8.9 298°90	2°7/ 8.5	18	
5 31	19 39.62	-31 45.3	3.092	3.899	10.1	21.3	5 31	19 43.20	-28 13.4	1.464	2.308	17.6	19.2
6 10	19 34.95	-32 5.1	2.996	3.891	8.1	21.1	6 10	19 39.91	-28 19.8	1.366	2.283	14.1	18.9
6 20	19 28.59	-32 22.9	2.924	3.882	5.7	20.9	6 20	19 33.24	-28 25.8	1.286	2.258	10.0	18.6
6 30	19 20.95	-32 36.1	2.878	3.874	3.5	20.8	6 30	19 23.70	-28 27.2	1.229	2.233	5.4	18.2
7 10	19 12.65	-32 42.4	2.860	3.864	2.8	20.7	7 10	19 12.40	-28 19.4	1.195	2.208	2.9	18.0
7 20	19 4.38	-32 40.6	2.872	3.855	4.4	20.8	7 20	19 0.86	-27 59.7	1.186	2.184	6.9	18.2
7 30	18 56.84	-32 30.5	2.911	3.846	6.8	21.0	7 30	18 50.74	-27 28.6	1.201	2.159	11.9	18.4
8 9	18 50.63	-32 13.1	2.975	3.836	9.1	21.1	8 9	18 43.43	-26 49.0	1.237	2.135	16.6	18.6
170999	2005 <i>EK</i> ₁₀		7 8.9 111°66	2°4/ 9.7	18		262670	2006 <i>WH</i> ₁₂₈		7 8.9 178°16	0°7/ 9.2	17	
5 31	19 39.58	-15 15.5	2.023	2.835	14.6	20.2	5 31	19 44.09	-20 19.6	1.937	2.752	15.0	21.4
6 10	19 35.45	-15 8.9	1.944	2.841	11.6	20.0	6 10	19 39.20	-20 14.6	1.853	2.754	11.9	21.2
6 20	19 29.18	-15 10.3	1.886	2.846	8.2	19.8	6 20	19 31.87	-20 14.1	1.790	2.755	8.2	20.9
6 30	19 21.30	-15 19.2	1.852	2.852	4.7	19.6	6 30	19 22.69	-20 16.5	1.751	2.756	4.1	20.7
7 10	19 12.62	-15 34.3	1.845	2.857	2.4	19.5	7 10	19 12.55	-20 20.1	1.740	2.756	0.8	20.4
7 20	19 4.03	-15 53.9	1.865	2.862	4.8	19.6	7 20	19 2.50	-20 23.2	1.756	2.756	4.8	20.7
7 30	18 56.46	-16 16.2	1.911	2.867	8.4	19.9	7 30	18 53.60	-20 25.1	1.799	2.755	8.8	21.0
8 9	18 50.65	-16 39.4	1.981	2.872	11.6	20.1	8 9	18 46.72	-20 25.6	1.866	2.753	12.4	21.2
264224	2010 <i>RL</i> ₁₂₃		7 8.9 99°33	3°9/ 9.8	17		385575	2004 <i>VY</i> ₂₇		7 8.9 296°73	4°6/ 9.5	18	
5 31	19 42.82	-14 17.6	1.519	2.342	18.1	21.0	5 31	19 40.18	-14 0.0	1.703	2.522	16.6	20.9
6 10	19 38.63	-13 46.0	1.448	2.349	14.6	20.8	6 10	19 36.64	-13 8.5	1.602	2.500	13.6	20.6
6 20	19 31.66	-13 24.2	1.396	2.357	10.5	20.6	6 20	19 30.48	-12 23.2	1.521	2.479	10.1	20.3
6 30	19 22.59	-13 13.0	1.366	2.364	6.3	20.3	6 30	19 22.17	-11 45.9	1.463	2.457	6.4	20.1
7 10	19 12.48	-13 11.8	1.362	2.371	3.9	20.2	7 10	19 12.60	-11 18.0	1.430	2.436	4.6	19.9
7 20	19 2.56	-13 19.4	1.382	2.378	6.4	20.4	7 20	19 2.86	-11 0.3	1.422	2.414	6.8	20.0
7 30	18 54.07	-13 34.1	1.428	2.385	10.5	20.6	7 30	18 54.15	-10 52.6	1.439	2.393	10.8	20.2
8 9	18 47.93	-13 53.4	1.495	2.392	14.4	20.9	8 9	18 47.52	-10 53.7	1.479	2.372	14.7	20.3
264956	2002 <i>XB</i> ₂₇		7 8.9 316°56	3°0/ 7.8	18		276125	2002 <i>GT</i> ₉₉					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
175270	2005 <i>JL</i> ₁₄₅		7 9.0 62°17'	0.8/ 8.8	17		146960	2002 <i>GO</i> ₃₄		7 9.0 22°08'	2.2/ 9.9	18	
5 31	19 42.74	-21 53.8	1.391	2.235	18.4	20.3	5 31	19 36.81	-14 2.9	2.141	2.952	13.9	19.7
6 10	19 38.96	-22 22.0	1.330	2.248	14.4	20.1	6 10	19 33.27	-14 17.4	2.058	2.954	11.1	19.5
6 20	19 32.09	-22 57.3	1.288	2.262	9.8	19.9	6 20	19 27.74	-14 41.8	1.996	2.956	7.9	19.3
6 30	19 22.89	-23 35.5	1.269	2.276	4.7	19.6	6 30	19 20.69	-15 15.0	1.959	2.958	4.5	19.1
7 10	19 12.55	-24 11.9	1.274	2.290	1.0	19.4	7 10	19 12.86	-15 54.9	1.948	2.961	2.2	19.0
7 20	19 2.50	-24 42.5	1.303	2.304	5.9	19.8	7 20	19 5.05	-16 39.0	1.965	2.964	4.5	19.1
7 30	18 54.10	-25 5.2	1.358	2.318	10.6	20.1	7 30	18 58.12	-17 24.4	2.009	2.967	7.9	19.3
8 9	18 48.35	-25 19.9	1.433	2.333	14.7	20.3	8 9	18 52.79	-18 8.7	2.077	2.970	11.1	19.5
385530	2004 <i>PQ</i> ₂₆		7 9.0 63°76'	12°1/16.2	18		432291	2009 <i>SJ</i> ₂₆₃		7 9.0 290°35'	7°8/ 6.4	18	
5 31	19 42.72	+ 8 35.4	1.101	1.870	26.6	20.5	5 31	19 45.63	-37 7.2	1.614	2.445	16.8	21.5
6 10	19 39.60	+ 8 9.3	1.034	1.876	23.5	20.2	6 10	19 42.08	-38 16.8	1.518	2.420	14.0	21.2
6 20	19 33.00	+ 6 58.2	0.979	1.883	19.7	20.0	6 20	19 34.94	-39 24.5	1.441	2.394	10.9	21.0
6 30	19 23.53	+ 4 55.8	0.941	1.890	15.8	19.8	6 30	19 24.66	-40 21.4	1.387	2.369	8.4	20.8
7 10	19 12.47	+ 2 3.3	0.924	1.897	12.8	19.7	7 10	19 12.39	-40 58.7	1.357	2.343	8.0	20.7
7 20	19 1.40	- 1 28.5	0.929	1.904	12.4	19.7	7 20	18 59.73	-41 10.6	1.351	2.317	10.3	20.7
7 30	18 52.04	- 5 21.2	0.959	1.911	14.9	19.8	7 30	18 48.56	-40 56.0	1.368	2.291	13.7	20.9
8 9	18 45.70	- 9 14.3	1.011	1.919	18.7	20.1	8 9	18 40.40	-40 18.9	1.405	2.265	17.3	21.0
241251	2007 <i>TQ</i> ₂₃₄		7 9.0 283°96'	4°6/ 7.2	18		121511	1999 <i>TD</i> ₃₁₉		7 9.0 33°25'	4°1/10.1	17	
5 31	19 42.18	-31 23.1	1.993	2.819	14.2	20.4	5 31	19 40.28	-12 59.8	1.438	2.267	18.6	20.1
6 10	19 38.30	-32 19.7	1.892	2.797	11.5	20.1	6 10	19 36.92	-12 42.9	1.365	2.269	15.1	19.9
6 20	19 31.70	-33 17.5	1.812	2.775	8.4	19.9	6 20	19 30.71	-12 38.8	1.310	2.272	10.9	19.7
6 30	19 22.82	-34 11.2	1.757	2.752	5.5	19.7	6 30	19 22.28	-12 48.0	1.277	2.274	6.6	19.4
7 10	19 12.54	-34 54.8	1.729	2.729	4.7	19.6	7 10	19 12.69	-13 9.3	1.267	2.277	4.1	19.3
7 20	19 1.99	-35 24.1	1.726	2.706	7.1	19.7	7 20	19 3.18	-13 40.2	1.283	2.280	6.6	19.4
7 30	18 52.47	-35 37.2	1.749	2.683	10.5	19.8	7 30	18 55.06	-14 17.4	1.322	2.283	10.8	19.7
8 9	18 45.09	-35 35.3	1.795	2.660	13.9	20.0	8 9	18 49.34	-14 57.4	1.383	2.286	14.9	19.9
221001	2005 <i>NE</i> ₈₃		7 9.0 297°14'	3°9/ 9.8	18		505828	2015 <i>BP</i> ₄₈₃		7 9.0 304°02'	3°9/10.1	17	
5 31	19 39.27	-14 15.1	1.529	2.359	17.7	20.5	5 31	19 37.55	-12 41.2	1.363	2.201	19.0	21.2
6 10	19 36.22	-13 47.8	1.436	2.341	14.4	20.2	6 10	19 35.37	-12 38.9	1.267	2.176	15.6	20.9
6 20	19 30.36	-13 30.1	1.361	2.324	10.5	20.0	6 20	19 30.13	-12 52.2	1.187	2.152	11.5	20.5
6 30	19 22.18	-13 23.2	1.308	2.306	6.4	19.7	6 30	19 22.25	-13 22.2	1.129	2.128	6.9	20.2
7 10	19 12.62	-13 26.7	1.280	2.289	3.9	19.5	7 10	19 12.67	-14 7.5	1.094	2.105	3.9	20.0
7 20	19 2.89	-13 39.7	1.275	2.272	6.6	19.6	7 20	19 2.68	-15 4.6	1.082	2.081	6.9	20.1
7 30	18 54.31	-14 0.2	1.295	2.256	11.0	19.8	7 30	18 53.83	-16 8.6	1.093	2.059	12.0	20.3
8 9	18 48.02	-14 25.7	1.337	2.239	15.3	20.0	8 9	18 47.48	-17 14.4	1.125	2.036	16.8	20.5
73499	2002 <i>RL</i> ₅₃		7 9.0 232°99'	1°3/ 8.6	18		509522	2007 <i>WA</i> ₄₁		7 9.0 284°97'	2°5/ 9.8	18	
5 31	19 40.76	-24 22.7	2.062	2.886	13.9	20.0	5 31	19 38.50	-15 13.8	1.973	2.789	14.8	21.8
6 10	19 36.62	-24 45.5	1.975	2.883	11.0	19.8	6 10	19 34.87	-15 7.1	1.881	2.780	11.9	21.6
6 20	19 30.15	-25 11.4	1.910	2.879	7.5	19.5	6 20	19 29.00	-15 8.7	1.809	2.770	8.5	21.4
6 30	19 21.89	-25 37.5	1.870	2.875	3.7	19.3	6 30	19 21.38	-15 18.4	1.761	2.761	4.8	21.1
7 10	19 12.67	-26 0.6	1.857	2.872	1.4	19.1	7 10	19 12.79	-15 35.0	1.740	2.752	2.5	21.0
7 20	19 3.46	-26 18.2	1.870	2.868	4.8	19.4	7 20	19 4.15	-15 56.6	1.745	2.743	5.0	21.1
7 30	18 55.29	-26 29.1	1.911	2.864	8.6	19.6	7 30	18 56.45	-16 21.4	1.776	2.733	8.8	21.3
8 9	18 49.00	-26 33.4	1.975	2.860	12.0	19.8	8 9	18 50.53	-16 47.4	1.830	2.724	12.3	21.5
166512	2002 <i>QL</i> ₄₂		7 9.0 2°87'	6°5/ 7.8	16		480172	2015 <i>FT</i> ₃₀₈		7 9.0 30°22'	2°1/ 9.7	17	
5 31	19 38.93	-34 46.2	1.297	2.155	18.6	19.2	5 31	19 38.29	-15 32.8	1.542	2.376	17.4	20.8
6 10	19 36.74	-35 24.0	1.232	2.154	15.0	19.0	6 10	19 35.17	-15 45.9	1.473	2.382	13.8	20.6
6 20	19 31.01	-35 56.4	1.186	2.153	11.2	18.7	6 20	19 29.40	-16 10.7	1.422	2.389	9.7	20.4
6 30	19 22.50	-36 16.2	1.160	2.155	7.7	18.5	6 30	19 21.61	-16 45.7	1.394	2.397	5.2	20.2
7 10	19 12.61	-36 17.4	1.157	2.157	6.6	18.5	7 10	19 12.78	-17 27.8	1.391	2.405	2.1	20.0
7 20	19 3.00	-35 57.5	1.176	2.161	9.0	18.6	7 20	19 4.08	-18 13.3	1.413	2.414	5.4	20.2
7 30	18 55.30	-35 18.3	1.217	2.166	12.8	18.9	7 30	18 56.68	-18 58.6	1.460	2.423	9.8	20.5
8 9	18 50.65	-34 24.9	1.279	2.172	16.5	19.1	8 9	18 51.49	-19 40.9	1.529	2.433	13.7	20.7
177840	2005 <i>NR</i> ₇₅		7 9.0 24°02'	0°1/ 8.9	17		310422	1999 <i>VK</i> ₉₈		7 9.0 264°18'	3°8/10.2	18	
5 31	19 39.82	-22 14.9	1.215	2.073	19.6	19.7	5 31	19 37.30	-11 10.3	2.427	3.221	13.0	21.1
6 10	19 37.08	-22 14.4	1.154	2.080	15.4	19.5	6 10	19 33.41	-10 43.5	2.332	3.213	10.6	20.9
6 20	19 31.03	-22 19.6	1.111	2.088	10.6	19.2	6 20	19 27.72	-10 24.6	2.259	3.206	7.9	20.8
6 30	19 22.44	-22 27.7	1.089	2.096	5.1	18.9	6 30	19 20.68	-10 14.6	2.211	3.198	5.2	20.6
7 10	19 12.64	-22 35.6	1.089	2.106	0.6	18.6	7 10	19 12.90	-10 13.4	2.189	3.191	3.8	20.5
7 20	19 3.14	-22 40.6	1.114	2.116	6.2	19.0	7 20	19 5.12	-10 20.5	2.195	3.183	5.2	20.6
7 30	18 55.43	-22 41.8	1.161	2.128	11.3	19.4	7 30	18 58.08	-10 34.7	2.228	3.175	7.9	20.7
8 9	18 50.56	-22 39.4	1.228	2.139	15.7	19.7	8 9	18 52.45	-10 54.3	2.285	3.167	10.6	20.9
242705	2005 <i>TL</i> ₁₃₁		7 9.0 290°14'	0°6/ 9.2	18		387405	2013 <i>SJ</i> ₂₅		7 9.0 266°43'	12°7/ 1.9	18	
5 31	19 38.15	-19 51.0	2.181	3.001	13.4	21.1	5 31	19 51.91	-47 54.0	1.733	2.532	17.1	20.6
6 10	19 34.48	-19 57.1	2.081	2.985	10.6	20.8	6 10	19 47.91	-50 19.5	1.663	2.522	15.2	20.5
6 20	19 28.69	-20 8.5	2.001	2.968	7.4	20.6	6 20	19 39.55	-52 37.2	1.613	2.512	13.5	20.3
6 30	19 21.21	-20 23.8	1.946	2.951	3.7	20.3	6 30	19 27.19	-54 34.1	1.586	2.501	12.7	20.2
7 10	19 12.78	-20 41.1	1.919	2.935	0.7	20.1	7 10	19 12.15	-55 58.3	1.581	2.491	13.1	20.2
7 20	19 4.25	-20 58.3	1.918	2.918	4.4	20.3	7 20	18 56.51	-56 42.9	1.598	2.480	14.5	20.3
7 30	18 56.55	-21 14.1	1.944	2.902	8.1	20.5	7 30	18 42.76	-56 48.1	1.635	2.470	16.5	20.4
8 9	18 50.51	-21 27.5	1.995	2.886	11.6	20.7	8 9	18 32.88	-56 20.7	1.690	2.459	18.7	20.5
21738	Schwank		7 9.0 348°85'	5°7/10.1	18		37147	2000 <i>VF</i>					

EPHEMERIDES

7 9.0

7 9.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
288995	2004 <i>TY</i> ₆₄	7 9.0 176°04	0°5/ 8.8 18				182900	2002 <i>EG</i> ₁₅	7 9.0 126°33	0°3/ 8.9 18			
5 31	19 38.44	-22 51.2	2.748	3.559	11.2	21.7	5 31	19 39.77	-22 37.1	2.539	3.351	12.0	21.2
6 10	19 34.14	-23 7.5	2.660	3.560	8.8	21.6	6 10	19 35.24	-22 47.1	2.459	3.359	9.4	21.0
6 20	19 28.13	-23 26.6	2.595	3.561	6.0	21.4	6 20	19 28.90	-22 59.7	2.402	3.368	6.4	20.8
6 30	19 20.85	-23 46.4	2.556	3.561	2.9	21.2	6 30	19 21.22	-23 13.1	2.371	3.376	3.1	20.6
7 10	19 12.92	-24 5.0	2.546	3.562	0.6	21.0	7 10	19 12.90	-23 25.4	2.368	3.385	0.5	20.4
7 20	19 5.02	-24 20.9	2.564	3.562	3.6	21.2	7 20	19 4.69	-23 35.1	2.394	3.393	3.8	20.7
7 30	18 57.88	-24 33.0	2.610	3.562	6.6	21.4	7 30	18 57.34	-23 41.5	2.447	3.400	7.0	20.9
8 9	18 52.08	-24 41.1	2.682	3.562	9.4	21.6	8 9	18 51.48	-23 44.4	2.526	3.408	9.8	21.1
519759	2013 <i>DK</i> ₁₇	7 9.0 199°02	2°4/ 8.3 18				479161	2013 <i>CB</i> ₁₅	7 9.0 229°32	1°8/ 9.8 18			
5 31	19 41.36	-29 24.3	2.408	3.225	12.4	22.0	5 31	19 38.13	-14 36.2	2.389	3.192	12.9	22.2
6 10	19 36.76	-29 38.4	2.322	3.224	9.8	21.8	6 10	19 34.17	-14 54.2	2.295	3.186	10.3	22.0
6 20	19 30.07	-29 51.2	2.259	3.223	6.8	21.6	6 20	19 28.33	-15 21.0	2.222	3.181	7.3	21.8
6 30	19 21.84	-29 59.9	2.221	3.222	3.8	21.4	6 30	19 21.03	-15 55.6	2.175	3.175	4.0	21.6
7 10	19 12.82	-30 1.8	2.211	3.221	2.5	21.3	7 10	19 12.92	-16 35.9	2.156	3.169	1.8	21.4
7 20	19 3.89	-29 55.7	2.228	3.220	4.8	21.5	7 20	19 4.77	-17 19.6	2.164	3.163	4.2	21.6
7 30	18 55.94	-29 41.6	2.273	3.218	7.9	21.7	7 30	18 57.37	-18 4.1	2.201	3.156	7.5	21.7
8 9	18 49.70	-29 20.8	2.343	3.217	10.7	21.9	8 9	18 51.43	-18 47.3	2.262	3.150	10.5	21.9
396719	2002 <i>WV</i> ₁	7 9.0 162°80	6°5/ 10.6 16				163049	2001 <i>XS</i> ₂₄₀	7 9.0 249°43	0°5/ 9.1 18			
5 31	19 39.25	-4 56.8	2.259	3.030	14.5	20.9	5 31	19 45.38	-22 16.2	1.514	2.347	17.6	19.7
6 10	19 34.96	-4 0.3	2.176	3.032	12.2	20.7	6 10	19 41.11	-21 57.6	1.427	2.339	14.1	19.4
6 20	19 28.78	-3 14.8	2.113	3.034	9.7	20.6	6 20	19 33.74	-21 41.8	1.360	2.330	9.7	19.1
6 30	19 21.20	-2 43.0	2.074	3.035	7.6	20.4	6 30	19 23.86	-21 27.1	1.315	2.321	4.8	18.8
7 10	19 12.89	-2 26.1	2.061	3.037	6.5	20.4	7 10	19 12.61	-21 11.8	1.295	2.311	0.7	18.5
7 20	19 4.63	-2 24.5	2.074	3.038	7.3	20.4	7 20	19 1.36	-20 54.7	1.301	2.301	5.8	18.8
7 30	18 57.23	-2 36.9	2.113	3.039	9.4	20.6	7 30	18 51.57	-20 36.1	1.331	2.292	10.8	19.1
8 9	18 51.34	-3 0.7	2.175	3.040	11.8	20.7	8 9	18 44.38	-20 17.0	1.384	2.281	15.2	19.3
20602	1999 <i>RC</i> ₁₉₈	7 9.0 213°78	4°0/ 7.7 18				35536	1998 <i>FG</i> ₇₈	7 9.0 172°74	0°3/ 8.9 18			
5 31	19 43.57	-36 1.3	2.928	3.728	10.8	18.0	5 31	19 42.86	-21 27.0	2.398	3.205	12.7	20.0
6 10	19 38.25	-36 25.2	2.835	3.721	8.8	17.8	6 10	19 37.84	-21 49.9	2.311	3.208	10.0	19.8
6 20	19 30.98	-36 44.8	2.765	3.714	6.5	17.7	6 20	19 30.79	-22 17.1	2.247	3.212	6.8	19.6
6 30	19 22.25	-36 56.7	2.722	3.706	4.6	17.5	6 30	19 22.20	-22 46.4	2.209	3.214	3.3	19.4
7 10	19 12.78	-36 58.1	2.706	3.698	4.0	17.5	7 10	19 12.80	-23 14.9	2.199	3.216	0.5	19.1
7 20	19 3.36	-36 47.7	2.719	3.690	5.4	17.5	7 20	19 3.43	-23 40.5	2.219	3.217	4.1	19.4
7 30	18 54.83	-36 25.8	2.759	3.681	7.6	17.7	7 30	18 54.96	-24 1.7	2.266	3.217	7.5	19.7
8 9	18 47.87	-35 54.4	2.824	3.672	9.9	17.8	8 9	18 48.12	-24 18.1	2.338	3.217	10.6	19.9
383200	2005 <i>YN</i> ₃₂	7 9.0 215°93	0°5/ 9.2 17				324916	2007 <i>VZ</i> ₂₉₀	7 9.0 243°87	2°1/ 8.4 18			
5 31	19 42.36	-19 51.1	2.192	3.002	13.6	22.9	5 31	19 44.21	-24 45.2	1.651	2.483	16.5	21.2
6 10	19 37.72	-19 59.4	2.096	2.995	10.8	22.7	6 10	19 40.17	-25 23.8	1.561	2.472	13.1	21.0
6 20	19 30.87	-20 12.9	2.022	2.987	7.5	22.4	6 20	19 33.13	-26 8.0	1.491	2.461	9.1	20.7
6 30	19 22.30	-20 30.0	1.974	2.978	3.7	22.2	6 30	19 23.62	-26 53.1	1.444	2.450	4.7	20.4
7 10	19 12.77	-20 48.4	1.953	2.969	0.6	21.9	7 10	19 12.64	-27 34.0	1.424	2.438	2.3	20.3
7 20	19 3.19	-21 6.1	1.960	2.960	4.4	22.2	7 20	19 1.50	-28 6.1	1.429	2.425	6.2	20.5
7 30	18 54.54	-21 21.8	1.995	2.950	8.2	22.4	7 30	18 51.64	-28 27.2	1.460	2.413	10.7	20.7
8 9	18 47.62	-21 34.7	2.054	2.939	11.6	22.6	8 9	18 44.22	-28 37.6	1.513	2.400	14.8	20.9
45652	2000 <i>EK</i> ₆₁	7 9.0 247°35	0°3/ 9.1 18				95691	2002 <i>JK</i> ₄₆	7 9.0 99°07	0°5/ 8.8 18			
5 31	19 37.62	-20 56.2	2.611	3.423	11.6	19.7	5 31	19 39.42	-22 54.2	2.453	3.268	12.2	20.4
6 10	19 33.59	-20 59.8	2.520	3.420	9.2	19.5	6 10	19 35.03	-23 8.5	2.377	3.279	9.6	20.2
6 20	19 27.81	-21 6.7	2.451	3.417	6.3	19.3	6 20	19 28.79	-23 25.6	2.323	3.290	6.5	20.0
6 30	19 20.72	-21 15.8	2.409	3.413	3.1	19.1	6 30	19 21.19	-23 43.4	2.296	3.301	3.1	19.8
7 10	19 12.95	-21 25.4	2.394	3.410	0.4	18.8	7 10	19 12.93	-23 59.8	2.296	3.312	0.6	19.6
7 20	19 5.21	-21 34.2	2.407	3.407	3.7	19.1	7 20	19 4.79	-24 13.1	2.324	3.323	3.9	19.9
7 30	18 58.23	-21 41.4	2.448	3.403	6.8	19.3	7 30	18 57.55	-24 22.4	2.380	3.333	7.1	20.1
8 9	18 52.63	-21 46.5	2.515	3.400	9.7	19.5	8 9	18 51.86	-24 27.7	2.461	3.344	10.0	20.3
348358	2005 <i>EE</i> ₁₈₀	7 9.0 295°02	3°3/ 10.0 16				154981	2004 <i>VC</i> ₄	7 9.0 201°47	3°7/ 7.4 18			
5 31	19 38.75	-13 21.8	1.932	2.744	15.2	21.5	5 31	19 40.34	-32 14.4	2.559	3.374	11.8	20.1
6 10	19 35.04	-13 6.8	1.847	2.741	12.3	21.3	6 10	19 36.00	-32 59.7	2.475	3.373	9.4	19.9
6 20	19 29.10	-13 1.3	1.781	2.738	8.9	21.0	6 20	19 29.61	-33 43.5	2.414	3.372	6.8	19.8
6 30	19 21.44	-13 5.3	1.739	2.735	5.4	20.8	6 30	19 21.66	-34 22.1	2.379	3.371	4.5	19.6
7 10	19 12.87	-13 18.2	1.723	2.732	3.3	20.7	7 10	19 12.87	-34 51.8	2.371	3.370	3.8	19.6
7 20	19 4.31	-13 38.3	1.734	2.729	5.4	20.8	7 20	19 4.10	-35 10.3	2.390	3.369	5.6	19.7
7 30	18 56.74	-14 3.8	1.770	2.726	8.9	21.0	7 30	18 56.22	-35 16.9	2.437	3.367	8.1	19.8
8 9	18 50.98	-14 32.3	1.830	2.724	12.3	21.2	8 9	18 49.98	-35 12.7	2.508	3.366	10.7	20.0
294051	2007 <i>TO</i> ₁₅₁	7 9.0 281°85	3°5/ 8.4 17				61364	2000 <i>PH</i> ₂₀	7 9.0 11°71	0°2/ 8.9 18			
5 31	19 45.17	-29 15.1	1.413	2.256	18.1	20.9	5 31	19 36.40	-18 33.1	1.037	1.908	21.3	17.4
6 10	19 41.51	-29 33.1	1.326	2.243	14.5	20.6	6 10	19 35.03	-19 19.1	0.977	1.909	16.9	17.2
6 20	19 34.34	-29 50.9	1.258	2.229	10.3	20.3	6 20	19 30.09	-20 20.8	0.933	1.912	11.6	16.9
6 30	19 24.28	-30 2.9	1.213	2.216	5.8	20.0	6 30	19 22.25	-21 33.7	0.908	1.917	5.6	16.6
7 10	19 12.55	-30 4.0	1.191	2.202	3.6	19.8	7 10	19 12.84	-22 50.2	0.906	1.922	0.7	16.2
7 20	19 0.75	-29 51.1	1.193	2.188	7.3	20.0	7 20	19 3.54	-24 2.4	0.925	1.929	6.8	16.7
7 30	18 50.60	-29 24.5	1.220	2.175	12.1	20.2	7 30	18 56.09	-25 4.2	0.966	1.936	12.5	17.0
8 9	18 43.42	-28 47.7	1.267	2.161	16.6	20.5	8 9	18 51.76	-25 52.9	1.026	1.945	17.4	17.3
476478	2008 <i>FN</i> ₃₆	7 9.0 175°28	4°9/ 7.3 18				496151	2010 <i>TJ</i> ₇₆	7 9.0 195°20				

EPHEMERIDES

7 9.0

7 9.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
245258	2005 <i>AM</i> ₁₄		7 9.0 161°52	1.4/ 8.6	18		374860	2006 <i>VD</i> ₃₀		7 9.0 326°33	0.5/ 8.9	17	
5 31	19 43.12	-25 39.6	2.216	3.032	13.3	20.9	5 31	19 37.80	-23 5.6	1.234	2.096	19.1	20.6
6 10	19 38.24	-25 53.9	2.134	3.037	10.5	20.7	6 10	19 35.94	-23 4.1	1.150	2.078	15.3	20.3
6 20	19 31.16	-26 9.4	2.074	3.040	7.2	20.5	6 20	19 30.69	-23 7.4	1.083	2.061	10.6	20.0
6 30	19 22.42	-26 23.5	2.039	3.044	3.6	20.3	6 30	19 22.60	-23 13.0	1.037	2.045	5.2	19.7
7 10	19 12.85	-26 33.3	2.032	3.047	1.5	20.2	7 10	19 12.84	-23 17.5	1.014	2.030	0.8	19.3
7 20	19 3.38	-26 37.3	2.053	3.050	4.6	20.4	7 20	19 2.93	-23 18.3	1.013	2.016	6.5	19.6
7 30	18 54.96	-26 35.0	2.101	3.052	8.1	20.6	7 30	18 54.57	-23 14.1	1.034	2.003	12.1	19.9
8 9	18 48.37	-26 27.0	2.174	3.054	11.2	20.8	8 9	18 49.10	-23 5.5	1.075	1.991	17.1	20.2
429453	2010 <i>VS</i> ₁₇₂		7 9.0 222°93	0.9/ 8.8	17		8366	1990 <i>UL</i> ₁		7 9.0 272°21	0.0/ 8.9	18	
5 31	19 44.52	-23 21.1	1.879	2.700	15.2	22.8	5 31	19 42.39	-20 9.4	1.536	2.371	17.4	17.8
6 10	19 39.92	-23 39.7	1.786	2.692	12.0	22.5	6 10	19 38.98	-20 33.7	1.439	2.352	13.9	17.5
6 20	19 32.67	-24 2.4	1.715	2.683	8.3	22.3	6 20	19 32.51	-21 7.5	1.362	2.333	9.7	17.2
6 30	19 23.31	-24 26.3	1.668	2.674	4.1	22.0	6 30	19 23.44	-21 48.1	1.307	2.314	4.8	16.9
7 10	19 12.74	-24 47.9	1.648	2.664	1.1	21.8	7 10	19 12.75	-22 31.3	1.277	2.294	0.5	16.5
7 20	19 2.11	-25 4.4	1.655	2.653	5.2	22.0	7 20	19 1.74	-23 12.6	1.273	2.274	5.9	16.9
7 30	18 52.62	-25 14.3	1.688	2.642	9.4	22.3	7 30	18 51.92	-23 48.5	1.294	2.254	11.0	17.1
8 9	18 45.25	-25 18.0	1.745	2.630	13.2	22.5	8 9	18 44.56	-24 17.4	1.336	2.234	15.6	17.3
58429	1996 <i>FH</i>		7 9.0 39°57	4.3/ 8.2	18		501615	2014 <i>SQ</i> ₃₆		7 9.0 242°25	1.7/ 9.5	17	
5 31	19 44.56	-29 22.6	1.248	2.102	19.5	18.0	5 31	19 43.47	-17 6.8	1.542	2.369	17.7	22.4
6 10	19 41.14	-29 58.7	1.185	2.107	15.5	17.7	6 10	19 39.62	-17 14.1	1.451	2.358	14.2	22.2
6 20	19 34.06	-30 35.2	1.139	2.112	10.9	17.5	6 20	19 32.79	-17 31.8	1.380	2.347	10.0	21.9
6 30	19 24.09	-31 5.4	1.115	2.118	6.3	17.3	6 30	19 23.50	-17 58.5	1.332	2.335	5.3	21.6
7 10	19 12.67	-31 22.9	1.114	2.124	4.4	17.2	7 10	19 12.75	-18 31.3	1.308	2.323	1.7	21.3
7 20	19 1.54	-31 24.2	1.137	2.131	7.8	17.4	7 20	19 1.84	-19 6.7	1.310	2.311	5.8	21.6
7 30	18 52.39	-31 9.7	1.182	2.137	12.4	17.7	7 30	18 52.17	-19 41.7	1.337	2.298	10.7	21.8
8 9	18 46.43	-30 43.1	1.248	2.144	16.6	17.9	8 9	18 44.93	-20 14.2	1.387	2.285	15.2	22.0
104375	2000 <i>FE</i> ₃₁		7 9.0 161°33	0.2/ 9.1	18		116028	2003 <i>WJ</i> ₈₉		7 9.1 181°31	2.3/ 9.7	18	
5 31	19 40.46	-19 9.3	2.260	3.071	13.2	19.7	5 31	19 40.52	-15 43.4	2.184	2.990	13.8	20.4
6 10	19 36.11	-19 40.0	2.175	3.075	10.4	19.5	6 10	19 36.14	-15 29.0	2.098	2.991	11.1	20.2
6 20	19 29.71	-20 17.4	2.113	3.078	7.2	19.3	6 20	19 29.71	-15 21.2	2.033	2.991	7.9	20.0
6 30	19 21.74	-20 59.1	2.076	3.081	3.5	19.1	6 30	19 21.74	-15 19.7	1.992	2.991	4.5	19.8
7 10	19 12.93	-21 42.3	2.067	3.084	0.4	18.8	7 10	19 12.96	-15 23.8	1.979	2.991	2.4	19.6
7 20	19 4.14	-22 24.0	2.086	3.086	4.1	19.1	7 20	19 4.23	-15 32.2	1.994	2.990	4.6	19.8
7 30	18 56.24	-23 1.8	2.133	3.088	7.7	19.3	7 30	18 56.43	-15 43.7	2.035	2.989	8.0	20.0
8 9	18 49.98	-23 34.7	2.205	3.090	10.9	19.5	8 9	18 50.29	-15 57.1	2.101	2.988	11.2	20.2
293211	2007 <i>BX</i> ₂₀		7 9.0 181°23	2.6/ 9.9	18		290636	2005 <i>UW</i> ₂₅₀		7 9.1 287°24	4.1/ 7.9	18	
5 31	19 38.78	-13 59.1	2.736	3.528	11.7	21.1	5 31	19 42.56	-33 29.2	2.207	3.027	13.3	20.9
6 10	19 34.31	-13 37.6	2.645	3.528	9.4	21.0	6 10	19 38.18	-33 52.9	2.113	3.012	10.7	20.7
6 20	19 28.22	-13 21.8	2.577	3.528	6.8	20.8	6 20	19 31.36	-34 13.4	2.039	2.998	7.8	20.5
6 30	19 20.93	-13 11.9	2.535	3.528	4.1	20.6	6 30	19 22.63	-34 26.5	1.991	2.984	5.1	20.3
7 10	19 13.03	-13 7.8	2.521	3.528	2.6	20.5	7 10	19 12.86	-34 28.5	1.969	2.970	4.2	20.2
7 20	19 5.17	-13 8.7	2.535	3.527	4.2	20.6	7 20	19 3.09	-34 17.5	1.974	2.956	6.2	20.3
7 30	18 58.03	-13 13.8	2.577	3.526	6.9	20.8	7 30	18 54.40	-33 53.7	2.005	2.942	9.2	20.5
8 9	18 52.19	-13 22.3	2.645	3.525	9.5	21.0	8 9	18 47.68	-33 19.4	2.059	2.928	12.2	20.6
500105	2012 <i>BQ</i> ₈₄		7 9.0 121°99	2.2/ 8.6	17		439671	2014 <i>HH</i> ₁₆₉		7 9.1 352°89	2.6/ 7.9	18	R
5 31	19 46.77	-26 40.6	1.584	2.416	17.0	22.0	5 31	19 39.39	-26 26.4	2.140	2.966	13.4	20.6
6 10	19 41.96	-26 56.8	1.514	2.425	13.5	21.8	6 10	19 35.60	-27 20.5	2.057	2.965	10.6	20.4
6 20	19 34.12	-27 14.1	1.464	2.433	9.3	21.6	6 20	19 29.56	-28 17.9	1.997	2.964	7.3	20.2
6 30	19 23.97	-27 28.4	1.437	2.441	4.8	21.3	6 30	19 21.74	-29 14.4	1.961	2.964	4.0	20.0
7 10	19 12.71	-27 35.6	1.435	2.449	2.3	21.2	7 10	19 12.96	-30 5.5	1.953	2.963	2.7	19.9
7 20	19 1.69	-27 33.7	1.460	2.457	6.0	21.4	7 20	19 4.14	-30 47.6	1.972	2.963	5.4	20.1
7 30	18 52.29	-27 22.6	1.510	2.464	10.3	21.7	7 30	18 56.30	-31 18.8	2.018	2.963	8.7	20.3
8 9	18 45.48	-27 4.3	1.583	2.471	14.2	22.0	8 9	18 50.27	-31 39.0	2.087	2.963	11.8	20.5
519949	2013 <i>SJ</i> ₄		7 9.0 278°50	3.6/ 9.3	18		129083	2004 <i>VC</i> ₈₀		7 9.1 225°41	1.9/ 8.4	18	
5 31	19 43.93	-17 12.6	1.649	2.470	16.9	21.2	5 31	19 39.95	-28 7.7	2.733	3.546	11.2	20.7
6 10	19 39.63	-16 14.2	1.556	2.458	13.7	21.0	6 10	19 35.45	-28 23.7	2.640	3.540	8.8	20.6
6 20	19 32.55	-15 19.2	1.483	2.445	9.9	20.7	6 20	19 29.13	-28 39.5	2.570	3.534	6.1	20.4
6 30	19 23.27	-14 28.7	1.434	2.433	5.8	20.5	6 30	19 21.43	-28 52.4	2.526	3.528	3.3	20.2
7 10	19 12.77	-13 44.0	1.411	2.421	3.6	20.3	7 10	19 13.00	-29 0.4	2.510	3.521	2.0	20.1
7 20	19 2.25	-13 6.5	1.413	2.408	6.4	20.5	7 20	19 4.59	-29 2.0	2.522	3.515	4.2	20.2
7 30	18 52.98	-12 37.1	1.441	2.396	10.7	20.7	7 30	18 56.99	-28 56.7	2.563	3.508	7.1	20.4
8 9	18 45.97	-12 15.8	1.491	2.383	14.7	20.9	8 9	18 50.83	-28 45.4	2.628	3.501	9.8	20.6
31088	1997 <i>BV</i>		7 9.0 171°40	0.0/ 8.9	18	R	291480	2006 <i>DU</i> ₉₃		7 9.1 35°93	6.7/ 7.4	18	
5 31	19 40.42	-22 22.1	2.458	3.270	12.3	19.2	5 31	19 46.04	-37 52.6	1.784	2.607	15.8	20.0
6 10	19 35.87	-22 20.9	2.371	3.271	9.7	19.0	6 10	19 41.55	-38 41.1	1.712	2.609	12.9	19.8
6 20	19 29.42	-22 22.0	2.307	3.272	6.6	18.8	6 20	19 33.96	-39 23.3	1.661	2.611	9.9	19.6
6 30	19 21.55	-22 24.0	2.268	3.274	3.2	18.6	6 30	19 23.95	-39 52.5	1.632	2.613	7.5	19.5
7 10	19 12.97	-22 25.3	2.258	3.274	0.3	18.3	7 10	19 12.73	-40 2.9	1.628	2.615	6.8	19.5
7 20	19 4.47	-22 24.8	2.276	3.275	3.9	18.6	7 20	19 1.71	-39 52.2	1.650	2.617	8.6	19.6
7 30	18 56.85	-22 22.0	2.322	3.276	7.2	18.8	7 30	18 52.32	-39 21.6	1.696	2.619	11.5	19.7
8 9	18 50.78	-22 17.0	2.392	3.276	10.2	19.0	8 9	18 45.58	-38 35.5	1.763	2.622	14.4	19.9
296249	2009 <i>DR</i> ₁₈		7 9.0 233°83	2.4/ 9.9	18		47972	2000 <i>VW</i> ₁₅		7 9.1 256°			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
338153	2002 QP ₁₃₆	7 9.1 10°89	0°1/ 9.0 16				101013	1998 QV ₅₂	7 9.1 334°29	2°1/ 8.8 18			
5 31	19 40.99	-22 31.3	1.868	2.696	15.0	21.2	5 31	19 39.41	-28 6.4	1.400	2.254	17.7	18.4
6 10	19 36.97	-22 32.3	1.787	2.696	11.8	21.0	6 10	19 36.89	-27 53.0	1.313	2.236	14.2	18.1
6 20	19 30.52	-22 36.6	1.727	2.697	8.1	20.8	6 20	19 31.14	-27 37.1	1.244	2.219	9.9	17.8
6 30	19 22.20	-22 42.4	1.691	2.697	3.9	20.6	6 30	19 22.78	-27 15.5	1.196	2.203	5.2	17.5
7 10	19 12.92	-22 47.3	1.681	2.697	0.5	20.3	7 10	19 12.96	-26 45.6	1.173	2.188	2.2	17.3
7 20	19 3.74	-22 49.7	1.698	2.698	4.8	20.6	7 20	19 3.13	-26 6.7	1.173	2.174	6.4	17.5
7 30	18 55.73	-22 48.8	1.741	2.699	8.9	20.9	7 30	18 54.83	-25 20.2	1.197	2.161	11.3	17.8
8 9	18 49.74	-22 44.9	1.807	2.700	12.5	21.1	8 9	18 49.25	-24 29.6	1.241	2.149	15.9	18.0
203397	2001 XZ ₁₅₁	7 9.1 119°52	1°3/ 8.7 18				295819	2008 UF ₃₃₆	7 9.1 115°35	2°1/ 9.7 17			
5 31	19 45.39	-23 4.9	1.501	2.336	17.7	20.5	5 31	19 40.73	-16 33.1	1.949	2.764	14.9	21.4
6 10	19 41.03	-23 36.5	1.432	2.345	13.9	20.3	6 10	19 36.56	-16 22.1	1.869	2.768	11.9	21.2
6 20	19 33.60	-24 14.1	1.382	2.353	9.5	20.1	6 20	19 30.14	-16 18.3	1.810	2.773	8.4	21.0
6 30	19 23.79	-24 53.2	1.356	2.362	4.7	19.8	6 30	19 22.03	-16 21.1	1.776	2.777	4.6	20.8
7 10	19 12.77	-25 29.0	1.354	2.370	1.5	19.6	7 10	19 13.06	-16 29.1	1.768	2.781	2.1	20.6
7 20	19 1.91	-25 57.5	1.379	2.378	5.9	19.9	7 20	19 4.18	-16 40.9	1.787	2.785	4.8	20.8
7 30	18 52.63	-26 16.8	1.428	2.385	10.5	20.2	7 30	18 56.37	-16 54.9	1.832	2.789	8.6	21.0
8 9	18 45.96	-26 27.4	1.500	2.392	14.6	20.5	8 9	18 50.42	-17 10.0	1.901	2.793	12.0	21.2
324479	2006 UJ ₁₀₄	7 9.1 79°84	2°1/ 8.4 17				15130	2000 EU ₄₉	7 9.1 85°49	1°0/ 8.8 18			
5 31	19 43.44	-24 47.4	1.542	2.380	17.1	20.9	5 31	19 42.38	-24 11.6	2.015	2.837	14.3	18.3
6 10	19 39.46	-25 26.6	1.473	2.388	13.5	20.7	6 10	19 37.78	-24 25.6	1.946	2.852	11.2	18.1
6 20	19 32.51	-26 10.5	1.425	2.397	9.2	20.5	6 20	19 30.90	-24 42.1	1.899	2.867	7.6	17.9
6 30	19 23.25	-26 54.1	1.400	2.405	4.7	20.2	6 30	19 22.35	-24 58.1	1.877	2.883	3.7	17.7
7 10	19 12.83	-27 32.3	1.400	2.414	2.3	20.1	7 10	19 13.04	-25 11.2	1.882	2.898	1.1	17.5
7 20	19 2.56	-28 1.0	1.425	2.422	6.1	20.4	7 20	19 3.93	-25 19.3	1.914	2.913	4.6	17.8
7 30	18 53.80	-28 18.8	1.475	2.430	10.4	20.6	7 30	18 56.01	-25 21.9	1.973	2.927	8.3	18.1
8 9	18 47.58	-28 26.3	1.548	2.439	14.3	20.9	8 9	18 50.02	-25 19.5	2.056	2.942	11.5	18.3
445482	2010 VN ₁₅₂	7 9.1 319°53	2°9/ 9.9 16				521193	2015 FP ₄₁₂	7 9.1 117°29	3°5/ 10.7 17			
5 31	19 36.03	-14 23.4	2.013	2.830	14.4	21.3	5 31	19 39.98	-9 37.1	2.071	2.864	14.9	21.5
6 10	19 32.99	-14 11.1	1.915	2.813	11.7	21.1	6 10	19 35.81	-9 56.8	1.992	2.873	12.1	21.3
6 20	19 27.81	-14 7.2	1.837	2.797	8.4	20.8	6 20	19 29.57	-10 29.9	1.934	2.882	8.9	21.1
6 30	19 20.93	-14 11.9	1.783	2.781	5.0	20.6	6 30	19 21.74	-11 15.8	1.900	2.891	5.6	20.9
7 10	19 13.09	-14 24.5	1.755	2.765	2.9	20.4	7 10	19 13.10	-12 12.3	1.893	2.899	3.5	20.8
7 20	19 5.15	-14 43.6	1.753	2.750	5.1	20.5	7 20	19 4.51	-13 15.9	1.913	2.908	5.1	21.0
7 30	18 58.06	-15 7.3	1.777	2.735	8.7	20.7	7 30	18 56.86	-14 22.8	1.961	2.916	8.3	21.2
8 9	18 52.65	-15 33.6	1.824	2.721	12.2	20.9	8 9	18 50.90	-15 29.4	2.034	2.923	11.5	21.4
373163	2012 DK	7 9.1 36°00	4°1/ 10.4 17				106432	2000 VB ₄₈	7 9.1 329°16	5°3/ 6.9 18			
5 31	19 39.34	-11 39.0	1.339	2.171	19.5	20.6	5 31	19 41.46	-34 26.1	2.087	2.911	13.8	19.7
6 10	19 36.40	-11 41.6	1.271	2.177	15.8	20.4	6 10	19 37.55	-35 26.5	2.007	2.908	11.1	19.5
6 20	19 30.52	-12 0.9	1.221	2.183	11.5	20.1	6 20	19 31.09	-36 24.9	1.948	2.904	8.3	19.3
6 30	19 22.33	-12 36.6	1.192	2.190	7.0	19.9	6 30	19 22.60	-37 15.6	1.914	2.900	6.0	19.2
7 10	19 12.95	-13 26.3	1.187	2.197	4.1	19.8	7 10	19 13.01	-37 53.4	1.905	2.897	5.4	19.2
7 20	19 3.68	-14 25.3	1.206	2.204	6.6	19.9	7 20	19 3.39	-38 14.9	1.923	2.894	7.3	19.3
7 30	18 55.88	-15 28.5	1.248	2.212	11.0	20.2	7 30	18 54.93	-38 19.5	1.966	2.891	10.1	19.4
8 9	18 50.56	-16 31.1	1.312	2.220	15.2	20.5	8 9	18 48.55	-38 9.1	2.032	2.889	12.8	19.6
54973	2001 PE ₄₄	7 9.1 241°57	0°4/ 9.2 18				266240	2006 XY ₄₆	7 9.1 128°45	0°9/ 8.8 17			
5 31	19 39.96	-20 27.6	2.160	2.977	13.6	20.0	5 31	19 45.16	-23 39.5	1.860	2.681	15.3	20.8
6 10	19 35.87	-20 32.5	2.070	2.972	10.7	19.8	6 10	19 40.20	-23 55.0	1.787	2.692	12.0	20.6
6 20	19 29.65	-20 42.1	2.001	2.968	7.4	19.6	6 20	19 32.70	-24 13.6	1.735	2.703	8.2	20.4
6 30	19 21.77	-20 54.8	1.958	2.963	3.7	19.4	6 30	19 23.29	-24 32.4	1.708	2.714	4.0	20.2
7 10	19 13.02	-21 8.5	1.941	2.957	0.5	19.1	7 10	19 12.95	-24 48.2	1.708	2.724	1.0	20.0
7 20	19 4.27	-21 21.5	1.952	2.952	4.3	19.4	7 20	19 2.80	-24 58.8	1.735	2.733	5.0	20.3
7 30	18 56.45	-21 32.6	1.990	2.947	8.0	19.6	7 30	18 53.95	-25 3.3	1.788	2.742	9.0	20.6
8 9	18 50.35	-21 41.1	2.052	2.941	11.4	19.8	8 9	18 47.25	-25 2.4	1.865	2.751	12.5	20.8
174084	2002 GX ₇₁	7 9.1 10°25	0°0/ 8.9 17				261038	2005 SV ₁₄₆	7 9.1 337°29	0°8/ 8.8 18			
5 31	19 34.04	-20 36.0	0.950	1.832	21.8	19.1	5 31	19 38.49	-23 14.7	1.974	2.803	14.2	20.5
6 10	19 33.39	-20 49.1	0.895	1.834	17.3	18.8	6 10	19 35.01	-23 31.1	1.888	2.798	11.2	20.3
6 20	19 29.04	-21 12.8	0.856	1.838	11.9	18.5	6 20	19 29.23	-23 51.3	1.823	2.794	7.7	20.1
6 30	19 21.78	-21 43.8	0.835	1.844	5.8	18.2	6 30	19 21.65	-24 12.9	1.783	2.789	3.8	19.8
7 10	19 13.03	-22 17.3	0.835	1.852	0.6	17.9	7 10	19 13.12	-24 32.9	1.769	2.785	0.9	19.6
7 20	19 4.54	-22 48.2	0.856	1.861	6.9	18.3	7 20	19 4.60	-24 49.1	1.782	2.781	4.7	19.9
7 30	18 58.03	-23 13.1	0.897	1.872	12.6	18.7	7 30	18 57.11	-25 0.0	1.820	2.778	8.6	20.1
8 9	18 54.70	-23 30.8	0.957	1.884	17.5	19.0	8 9	18 51.49	-25 5.5	1.883	2.775	12.1	20.3
296421	2009 HQ ₁₈	7 9.1 29°22	4°1/ 10.2 17				329001	2010 XD ₃₈	7 9.1 271°50	2°2/ 8.6 18			
5 31	19 39.79	-12 36.0	1.354	2.187	19.3	20.5	5 31	19 44.38	-26 59.8	1.622	2.456	16.6	21.1
6 10	19 36.76	-12 26.9	1.283	2.190	15.7	20.3	6 10	19 40.38	-27 11.2	1.532	2.444	13.2	20.8
6 20	19 30.78	-12 32.5	1.231	2.194	11.4	20.1	6 20	19 33.34	-27 23.7	1.461	2.431	9.2	20.6
6 30	19 22.48	-12 53.0	1.200	2.198	6.9	19.8	6 30	19 23.81	-27 33.4	1.414	2.419	4.8	20.3
7 10	19 12.96	-13 26.5	1.192	2.202	4.1	19.7	7 10	19 12.89	-27 36.2	1.392	2.406	2.3	20.1
7 20	19 3.54	-14 9.6	1.208	2.206	6.6	19.8	7 20	19 1.91	-27 29.7	1.395	2.393	6.1	20.3
7 30	18 55.57	-14 58.3	1.248	2.211	11.0	20.1	7 30	18 52.31	-27 13.8	1.424	2.380	10.7	20.5
8 9	18 50.09	-15 48.2	1.309	2.217	15.2	20.4	8 9	18 45.22	-26 50.4	1.475	2.367	14.8	20.7
394752	2008 FO ₉₄	7 9.1 188°46	4°2/ 10.7 18				519668	2012 YQ ₁₀	7 9.1 262°51	0°2/ 9.2 18			
5 31	19 37.2												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
144581	2004 <i>FG</i> ₃₄		7 9.1 167°04	0°4/ 8.9	17		442032	2010 <i>PH</i> ₁₉		7 9.1 260°94	4°1/10.5	18	
5 31	19 44.36	-21 42.9	1.933	2.751	14.9	21.2	5 31	19 36.94	-9 36.5	2.464	3.253	12.9	21.4
6 10	19 39.58	-22 3.5	1.852	2.755	11.8	21.0	6 10	19 33.19	-9 17.0	2.370	3.246	10.6	21.2
6 20	19 32.33	-22 29.2	1.792	2.759	8.1	20.7	6 20	19 27.68	-9 6.9	2.296	3.238	8.0	21.0
6 30	19 23.16	-22 57.3	1.756	2.762	3.9	20.5	6 30	19 20.84	-9 6.8	2.248	3.231	5.5	20.8
7 10	19 13.00	-23 24.5	1.748	2.764	0.6	20.2	7 10	19 13.28	-9 16.6	2.225	3.224	4.1	20.7
7 20	19 2.89	-23 48.0	1.767	2.766	4.8	20.6	7 20	19 5.69	-9 35.5	2.230	3.217	5.2	20.8
7 30	18 53.94	-24 6.2	1.812	2.767	8.8	20.8	7 30	18 58.82	-10 1.8	2.263	3.209	7.8	21.0
8 9	18 47.02	-24 18.9	1.882	2.768	12.4	21.0	8 9	18 53.30	-10 33.3	2.319	3.202	10.5	21.1
253652	2003 <i>UP</i> ₁₄₈		7 9.1 265°22	1°7/ 8.6	17		17780	1998 <i>FY</i> ₁₃		7 9.1 83°70	5°1/11.0	18	
5 31	19 44.76	-25 5.1	1.682	2.512	16.3	21.4	5 31	19 37.56	-7 9.4	2.195	2.981	14.4	17.8
6 10	19 40.71	-25 25.9	1.582	2.492	13.0	21.1	6 10	19 33.80	-6 49.2	2.114	2.985	11.9	17.6
6 20	19 33.64	-25 50.5	1.502	2.471	9.1	20.9	6 20	19 28.14	-6 41.1	2.054	2.989	9.2	17.5
6 30	19 24.04	-26 15.2	1.445	2.450	4.6	20.5	6 30	19 21.07	-6 46.3	2.016	2.994	6.5	17.3
7 10	19 12.89	-26 35.7	1.414	2.428	1.9	20.3	7 10	19 13.26	-7 4.5	2.005	2.998	5.1	17.2
7 20	19 1.47	-26 48.4	1.409	2.406	6.0	20.5	7 20	19 5.51	-7 34.4	2.020	3.002	6.1	17.3
7 30	18 51.23	-26 51.8	1.429	2.384	10.7	20.7	7 30	18 58.61	-8 13.6	2.062	3.007	8.6	17.4
8 9	18 43.41	-26 46.9	1.472	2.361	15.0	20.9	8 9	18 53.23	-8 58.9	2.127	3.011	11.3	17.6
97133	1999 <i>VF</i> ₁₁₅		7 9.1 213°58	7°0/ 7.2	18		209547	2004 <i>VT</i> ₃₈		7 9.1 74°94	3°1/ 8.3	17	
5 31	19 48.65	-40 41.7	2.086	2.891	14.4	19.9	5 31	19 45.13	-26 21.3	1.351	2.197	18.7	20.8
6 10	19 43.36	-41 28.7	2.006	2.888	12.0	19.7	6 10	19 41.26	-27 5.6	1.288	2.207	14.8	20.6
6 20	19 35.12	-42 8.4	1.946	2.884	9.5	19.6	6 20	19 34.02	-27 53.8	1.245	2.217	10.2	20.4
6 30	19 24.58	-42 34.1	1.911	2.880	7.5	19.4	6 30	19 24.14	-28 39.7	1.223	2.227	5.5	20.1
7 10	19 12.86	-42 40.5	1.901	2.875	7.1	19.4	7 10	19 12.95	-29 16.9	1.225	2.238	3.2	20.0
7 20	19 1.27	-42 25.4	1.917	2.871	8.5	19.5	7 20	19 2.00	-29 41.2	1.253	2.248	7.0	20.3
7 30	18 51.15	-41 50.1	1.957	2.866	11.0	19.6	7 30	18 52.85	-29 51.4	1.304	2.259	11.5	20.6
8 9	18 43.53	-40 58.8	2.021	2.861	13.6	19.8	8 9	18 46.61	-29 49.5	1.376	2.269	15.6	20.8
510155	2010 <i>WZ</i> ₄₇		7 9.1 302°25	3°5/ 7.9	17		316366	2010 <i>SX</i> ₂₁		7 9.1 244°04	4°3/ 7.5	18	
5 31	19 41.40	-26 18.5	1.423	2.271	17.8	21.4	5 31	19 42.74	-35 5.8	2.631	3.439	11.7	21.2
6 10	19 38.56	-27 13.4	1.339	2.259	14.2	21.1	6 10	19 38.00	-35 41.1	2.536	3.428	9.5	21.0
6 20	19 32.43	-28 14.6	1.274	2.247	9.9	20.8	6 20	19 31.11	-36 13.3	2.465	3.416	7.0	20.8
6 30	19 23.52	-29 16.4	1.231	2.235	5.5	20.5	6 30	19 22.56	-36 38.1	2.418	3.405	4.9	20.7
7 10	19 12.95	-30 11.4	1.212	2.223	3.7	20.4	7 10	19 13.11	-36 52.3	2.399	3.393	4.4	20.6
7 20	19 2.17	-30 53.7	1.218	2.212	7.4	20.6	7 20	19 3.64	-36 53.6	2.408	3.381	5.9	20.7
7 30	18 52.83	-31 20.2	1.247	2.201	12.0	20.8	7 30	18 55.08	-36 42.1	2.444	3.368	8.4	20.9
8 9	18 46.26	-31 31.6	1.297	2.190	16.4	21.0	8 9	18 48.22	-36 19.3	2.503	3.355	10.9	21.0
168967	2001 <i>BB</i> ₄₃		7 9.1 220°27	0°6/ 9.2	17		198047	2004 <i>RL</i> ₂₈₈		7 9.1 204°82	1°4/ 9.6	18	
5 31	19 46.27	-21 40.4	1.832	2.649	15.7	20.2	5 31	19 41.85	-17 7.5	2.431	3.231	12.8	21.9
6 10	19 41.30	-21 24.3	1.739	2.641	12.5	20.0	6 10	19 37.11	-17 10.3	2.335	3.226	10.2	21.7
6 20	19 33.64	-21 11.0	1.667	2.633	8.6	19.7	6 20	19 30.41	-17 19.2	2.260	3.220	7.1	21.5
6 30	19 23.86	-20 59.0	1.620	2.624	4.3	19.4	6 30	19 22.20	-17 33.2	2.212	3.213	3.8	21.3
7 10	19 12.94	-20 46.6	1.599	2.615	0.7	19.1	7 10	19 13.16	-17 50.6	2.191	3.206	1.4	21.1
7 20	19 2.01	-20 33.0	1.605	2.605	5.1	19.4	7 20	19 4.09	-18 9.9	2.199	3.198	4.1	21.3
7 30	18 52.30	-20 18.1	1.638	2.595	9.5	19.7	7 30	18 55.83	-18 29.6	2.235	3.189	7.5	21.5
8 9	18 44.77	-20 2.7	1.695	2.584	13.4	19.9	8 9	18 49.08	-18 48.5	2.297	3.180	10.6	21.7
216102	2006 <i>RS</i> ₂₄		7 9.1 330°33	0°8/ 9.2	17		39670	1995 <i>YL</i> ₂₅		7 9.1 71°79	6°7/10.4	18	
5 31	19 40.73	-21 8.6	1.310	2.160	18.9	20.8	5 31	19 41.20	-7 37.7	1.808	2.602	16.7	18.8
6 10	19 37.90	-20 53.4	1.231	2.152	15.1	20.6	6 10	19 36.95	-6 31.7	1.737	2.611	13.9	18.6
6 20	19 31.83	-20 43.5	1.171	2.145	10.5	20.3	6 20	19 30.43	-5 37.3	1.685	2.620	10.9	18.4
6 30	19 23.14	-20 37.4	1.132	2.138	5.3	20.0	6 30	19 22.21	-4 57.5	1.657	2.630	8.1	18.3
7 10	19 13.01	-20 33.0	1.116	2.132	1.0	19.6	7 10	19 13.17	-4 34.1	1.653	2.639	6.7	18.2
7 20	19 2.91	-20 28.7	1.124	2.126	6.1	20.0	7 20	19 4.30	-4 27.2	1.674	2.649	7.8	18.3
7 30	18 54.36	-20 23.6	1.155	2.121	11.4	20.2	7 30	18 56.56	-4 35.5	1.721	2.659	10.4	18.5
8 9	18 48.56	-20 17.8	1.206	2.116	16.1	20.5	8 9	18 50.74	-4 55.8	1.790	2.668	13.3	18.7
428328	2007 <i>HP</i> ₅₆		7 9.1 12°36	10°3/13.4	17		510711	2012 <i>VR</i> ₉		7 9.1 259°30	3°1/ 8.1	18	
5 31	19 32.43	-0 30.5	1.199	2.017	22.2	19.6	5 31	19 43.37	-29 7.1	2.089	2.910	13.9	22.2
6 10	19 31.15	+0 9.5	1.141	2.022	19.1	19.4	6 10	19 39.02	-29 40.9	1.990	2.894	11.1	22.0
6 20	19 27.03	+0 22.6	1.097	2.028	15.7	19.2	6 20	19 32.14	-30 15.7	1.912	2.877	7.8	21.8
6 30	19 20.70	+0 4.0	1.072	2.036	12.5	19.0	6 30	19 23.20	-30 47.0	1.860	2.860	4.5	21.5
7 10	19 13.27	-0 46.8	1.066	2.046	10.5	19.0	7 10	19 13.06	-31 10.7	1.834	2.843	3.2	21.4
7 20	19 5.98	-2 6.3	1.081	2.057	10.9	19.0	7 20	19 2.78	-31 23.8	1.835	2.825	5.8	21.5
7 30	19 0.10	-3 46.7	1.118	2.070	13.3	19.2	7 30	18 53.53	-31 25.2	1.863	2.807	9.4	21.7
8 9	18 56.62	-5 38.2	1.175	2.084	16.5	19.4	8 9	18 46.26	-31 16.2	1.915	2.789	12.8	21.9
314645	2006 <i>KY</i> ₁₁		7 9.1 341°48	8°2/12.0	17		502583	2015 <i>CJ</i> ₃		7 9.1 168°18	2°1/ 9.8	17	
5 31	19 36.52	-4 11.7	1.245	2.066	21.4	20.6	5 31	19 42.83	-15 27.1	1.988	2.795	15.0	22.4
6 10	19 34.53	-3 51.0	1.170	2.060	18.1	20.3	6 10	19 38.23	-15 30.1	1.905	2.798	12.0	22.2
6 20	19 29.52	-3 54.2	1.110	2.054	14.3	20.1	6 20	19 31.34	-15 41.8	1.842	2.802	8.5	21.9
6 30	19 22.04	-4 25.0	1.070	2.049	10.6	19.9	6 30	19 22.69	-16 1.1	1.805	2.804	4.7	21.7
7 10	19 13.14	-5 23.6	1.051	2.045	8.3	19.7	7 10	19 13.12	-16 26.3	1.793	2.807	2.1	21.6
7 20	19 4.16	-6 46.2	1.054	2.042	9.4	19.8	7 20	19 3.59	-16 55.0	1.810	2.808	4.8	21.7
7 30	18 56.53	-8 25.6	1.080	2.039	12.9	20.0	7 30	18 55.11	-17 25.0	1.854	2.810	8.6	22.0
8 9	18 51.45	-10 12.8	1.125	2.037	16.9	20.2	8 9	18 48.48	-17 54.5	1.921	2.810	12.0	22.2
100004	1983 <i>VA</i>		7 9.1 242°89	2°7/ 7.7	18		94365	200					

EPHEMERIDES

7 9.1

7 9.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
133428	2003 SA ₁₉₉		7 9.1 54°97	1.4/ 8.7	18		179361	2001 XL ₁₉₂		7 9.1 209°54	0°3/ 9.2	18	
5 31	19 39.85	-26 31.3	2.399	3.217	12.4	19.3	5 31	19 39.21	-20 10.3	2.392	3.205	12.6	21.0
6 10	19 35.54	-26 36.4	2.320	3.224	9.7	19.1	6 10	19 35.11	-20 22.0	2.303	3.203	9.9	20.8
6 20	19 29.29	-26 41.5	2.264	3.231	6.6	18.9	6 20	19 29.09	-20 38.3	2.235	3.200	6.8	20.6
6 30	19 21.60	-26 44.6	2.234	3.238	3.4	18.7	6 30	19 21.59	-20 57.7	2.193	3.198	3.4	20.4
7 10	19 13.24	-26 43.8	2.231	3.245	1.4	18.6	7 10	19 13.32	-21 18.2	2.179	3.195	0.4	20.1
7 20	19 5.02	-26 37.8	2.256	3.252	4.2	18.8	7 20	19 5.06	-21 37.9	2.193	3.192	3.9	20.4
7 30	18 57.75	-26 26.6	2.308	3.260	7.4	19.0	7 30	18 57.62	-21 55.5	2.234	3.190	7.3	20.6
8 9	18 52.11	-26 11.1	2.385	3.267	10.3	19.2	8 9	18 51.71	-22 10.1	2.300	3.187	10.4	20.8
416516	2003 YC ₁₁₂		7 9.1 234°69	3°7/ 7.9	17		333260	2012 JE ₁₆		7 9.1 22°36	0°2/ 9.0	17	
5 31	19 46.05	-29 5.3	1.801	2.626	15.6	21.7	5 31	19 40.29	-16 15.3	1.401	2.239	18.5	19.9
6 10	19 41.56	-29 50.3	1.710	2.616	12.4	21.5	6 10	19 37.36	-17 35.4	1.328	2.242	14.7	19.7
6 20	19 34.11	-30 37.1	1.639	2.605	8.8	21.3	6 20	19 31.41	-19 13.4	1.275	2.246	10.1	19.4
6 30	19 24.25	-31 20.3	1.593	2.593	5.2	21.0	6 30	19 23.00	-21 4.0	1.245	2.251	4.9	19.2
7 10	19 12.97	-31 54.2	1.573	2.581	3.8	20.9	7 10	19 13.18	-22 59.0	1.240	2.256	0.6	18.8
7 20	19 1.55	-32 14.9	1.579	2.568	6.7	21.0	7 20	19 3.29	-24 49.3	1.261	2.262	5.9	19.2
7 30	18 51.38	-32 21.1	1.611	2.555	10.6	21.2	7 30	18 54.77	-26 27.7	1.307	2.268	10.9	19.5
8 9	18 43.61	-32 14.3	1.666	2.541	14.3	21.4	8 9	18 48.80	-27 50.4	1.375	2.274	15.2	19.8
192194	2007 GW ₅₃		7 9.1 312°50	5°1/10.2	18		69953	1998 VO ₁₇		7 9.1 258°85	4°1/10.2	18	
5 31	19 37.26	-11 46.6	1.504	2.332	18.0	19.6	5 31	19 39.86	-11 29.1	2.162	2.958	14.3	19.5
6 10	19 35.09	-11 19.7	1.390	2.293	15.0	19.2	6 10	19 35.85	-11 0.2	2.061	2.944	11.7	19.3
6 20	19 30.06	-11 4.6	1.294	2.253	11.3	18.9	6 20	19 29.74	-10 39.8	1.981	2.929	8.7	19.1
6 30	19 22.47	-11 3.7	1.220	2.214	7.4	18.6	6 30	19 21.99	-10 28.9	1.926	2.914	5.7	18.9
7 10	19 13.13	-11 17.9	1.168	2.175	5.1	18.4	7 10	19 13.30	-10 27.8	1.897	2.899	4.1	18.8
7 20	19 3.19	-11 46.6	1.140	2.136	7.5	18.4	7 20	19 4.51	-10 35.8	1.895	2.884	5.7	18.8
7 30	18 54.10	-12 27.2	1.135	2.097	12.1	18.5	7 30	18 56.53	-10 51.7	1.919	2.868	8.8	19.0
8 9	18 47.21	-13 16.1	1.152	2.059	16.9	18.7	8 9	18 50.16	-11 13.6	1.967	2.852	12.0	19.2
300248	2007 ED ₁₆₅		7 9.1 51°04	0°2/ 9.1	17		431409	2007 GC ₆₇		7 9.1 93°38	4°1/ 7.8	17	
5 31	19 45.32	-22 29.1	1.035	1.896	22.0	20.2	5 31	19 44.06	-30 4.3	1.759	2.590	15.6	21.0
6 10	19 41.78	-22 28.2	0.989	1.916	17.3	20.0	6 10	19 39.85	-30 53.2	1.687	2.596	12.4	20.8
6 20	19 34.44	-22 33.5	0.959	1.936	11.8	19.8	6 20	19 32.80	-31 42.4	1.635	2.601	8.8	20.6
6 30	19 24.30	-22 41.5	0.949	1.957	5.7	19.5	6 30	19 23.55	-32 26.1	1.608	2.606	5.4	20.5
7 10	19 13.00	-22 48.1	0.962	1.978	0.6	19.2	7 10	19 13.15	-32 59.1	1.605	2.611	4.2	20.4
7 20	19 2.32	-22 50.9	0.997	2.000	6.6	19.7	7 20	19 2.86	-33 18.0	1.629	2.616	6.7	20.6
7 30	18 53.90	-22 49.1	1.054	2.022	12.1	20.1	7 30	18 53.96	-33 22.0	1.679	2.621	10.3	20.8
8 9	18 48.79	-22 43.6	1.132	2.044	16.7	20.4	8 9	18 47.44	-33 13.2	1.750	2.626	13.7	21.0
175849	1999 TA ₃₀₂		7 9.1 231°52	4°9/ 7.6	18		82405	2001 NX ₈		7 9.1 286°97	3°4/ 8.2	18	
5 31	19 46.08	-31 34.8	1.706	2.535	16.1	20.6	5 31	19 42.81	-30 40.7	2.015	2.840	14.2	19.3
6 10	19 41.79	-32 29.5	1.622	2.529	13.0	20.3	6 10	19 38.71	-31 3.3	1.916	2.821	11.4	19.1
6 20	19 34.36	-33 24.4	1.559	2.522	9.4	20.1	6 20	19 32.00	-31 24.7	1.838	2.803	8.1	18.8
6 30	19 24.39	-34 13.0	1.519	2.515	6.1	19.9	6 30	19 23.19	-31 40.8	1.785	2.784	4.8	18.6
7 10	19 12.97	-34 48.8	1.505	2.507	5.1	19.8	7 10	19 13.17	-31 47.6	1.758	2.765	3.5	18.5
7 20	19 1.48	-35 7.4	1.517	2.500	7.6	19.9	7 20	19 3.06	-31 42.7	1.757	2.746	6.0	18.6
7 30	18 51.40	-35 8.2	1.554	2.492	11.3	20.1	7 30	18 54.04	-31 25.9	1.782	2.728	9.6	18.8
8 9	18 43.93	-34 53.5	1.612	2.483	14.9	20.3	8 9	18 47.11	-30 59.2	1.831	2.709	13.1	18.9
291170	2006 AU ₂₅		7 9.1 45°99	0°7/ 8.9	17		442178	2010 XH ₄₀		7 9.1 280°12	2°7/ 7.7	18	
5 31	19 42.52	-21 34.1	1.159	2.015	20.5	20.7	5 31	19 39.64	-26 43.2	2.421	3.240	12.3	20.2
6 10	19 39.51	-21 58.8	1.100	2.025	16.1	20.4	6 10	19 35.72	-27 47.6	2.327	3.231	9.7	20.0
6 20	19 32.97	-22 32.2	1.059	2.035	11.0	20.2	6 20	19 29.70	-28 55.9	2.257	3.222	6.8	19.8
6 30	19 23.69	-23 10.0	1.039	2.046	5.4	19.9	6 30	19 21.99	-30 3.8	2.213	3.213	3.9	19.6
7 10	19 13.05	-23 46.7	1.041	2.058	0.9	19.6	7 10	19 13.30	-31 6.8	2.197	3.205	2.8	19.5
7 20	19 2.70	-24 17.6	1.067	2.069	6.5	20.0	7 20	19 4.46	-32 1.1	2.209	3.196	5.2	19.7
7 30	18 54.25	-24 40.3	1.116	2.081	11.8	20.3	7 30	18 56.41	-32 44.3	2.248	3.187	8.3	19.9
8 9	18 48.85	-24 54.6	1.184	2.094	16.4	20.7	8 9	18 49.94	-33 16.0	2.312	3.179	11.1	20.0
521271	2015 HY ₁₉₃		7 9.1 316°63	2°3/ 9.9	17		427999	2006 BB ₃₆		7 9.1 349°59	5°9/ 8.8	16	
5 31	19 39.19	-14 42.5	1.889	2.704	15.3	21.4	5 31	19 46.86	-36 44.4	1.432	2.270	18.2	20.0
6 10	19 35.56	-14 52.3	1.805	2.703	12.3	21.2	6 10	19 42.83	-36 43.5	1.356	2.265	14.9	19.8
6 20	19 29.63	-15 12.4	1.741	2.702	8.7	21.0	6 20	19 35.20	-36 32.8	1.299	2.260	11.1	19.5
6 30	19 21.91	-15 41.8	1.701	2.701	4.9	20.7	6 30	19 24.79	-36 6.2	1.263	2.256	7.4	19.3
7 10	19 13.23	-16 18.5	1.687	2.700	2.3	20.5	7 10	19 13.05	-35 19.6	1.251	2.253	5.9	19.2
7 20	19 4.53	-16 59.5	1.700	2.699	4.9	20.7	7 20	19 1.67	-34 12.9	1.263	2.250	8.2	19.3
7 30	18 56.85	-17 41.9	1.739	2.698	8.8	21.0	7 30	18 52.28	-32 50.3	1.300	2.249	12.1	19.6
8 9	18 51.02	-18 23.2	1.802	2.698	12.4	21.2	8 9	18 45.99	-31 19.0	1.357	2.248	15.9	19.8
235890	2005 CG ₄₅		7 9.1 47°05	3°8/10.5	17		50015	2000 AR ₃₂		7 9.1 32°28	1°4/ 8.6	18	
5 31	19 38.60	-11 13.5	1.726	2.540	16.6	20.2	5 31	19 40.93	-21 50.7	1.382	2.229	18.3	17.9
6 10	19 35.15	-11 14.8	1.656	2.550	13.4	20.0	6 10	19 37.90	-22 39.2	1.314	2.234	14.4	17.7
6 20	19 29.34	-11 29.5	1.604	2.560	9.8	19.8	6 20	19 31.75	-23 36.8	1.266	2.240	9.8	17.4
6 30	19 21.75	-11 57.3	1.576	2.570	6.1	19.6	6 30	19 23.14	-24 38.6	1.239	2.246	4.8	17.1
7 10	19 13.27	-12 36.4	1.573	2.581	3.8	19.5	7 10	19 13.21	-25 38.5	1.237	2.252	1.6	16.9
7 20	19 4.91	-13 23.7	1.596	2.592	5.7	19.6	7 20	19 3.36	-26 30.7	1.259	2.259	6.2	17.2
7 30	18 57.69	-14 15.6	1.644	2.603	9.2	19.9	7 30	18 55.05	-27 11.9	1.306	2.266	11.0	17.5
8 9	18 52.42	-15 8.4	1.716	2.614	12.7	20.1	8 9	18 49.38	-27 41.3	1.374	2.274	15.2	17.8
441365	2008 DK ₈₆		7 9.1 310°70	2°7/10.1	18		254610	2005 GC ₁₅₃		7 9.1 64°98	0°1/ 9.1	17	
5 31	19 37.23</												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
40273	1999 JS ₇		7 9.1 331°50	0°8/ 9.2 18			205145	1999 XK ₃₆		7 9.1 291°49	2°2/ 8.3 18		
5 31	19 35.28	-21 28.0	1.075	1.948	20.5	17.8	5 31	19 41.76	-24 36.5	1.865	2.694	15.0	20.4
6 10	19 34.45	-21 12.0	0.993	1.928	16.5	17.5	6 10	19 38.27	-25 22.9	1.753	2.663	12.0	20.2
6 20	19 30.04	-21 1.6	0.928	1.908	11.6	17.1	6 20	19 32.02	-26 16.3	1.662	2.631	8.4	19.9
6 30	19 22.57	-20 55.7	0.882	1.890	5.8	16.8	6 30	19 23.41	-27 12.6	1.595	2.600	4.4	19.6
7 10	19 13.26	-20 52.1	0.857	1.874	0.9	16.4	7 10	19 13.21	-28 6.8	1.554	2.568	2.4	19.4
7 20	19 3.74	-20 48.8	0.854	1.858	6.9	16.7	7 20	19 2.56	-28 53.8	1.540	2.535	6.0	19.5
7 30	18 55.86	-20 44.5	0.870	1.845	13.0	17.0	7 30	18 52.77	-29 30.2	1.552	2.503	10.3	19.7
8 9	18 51.08	-20 39.0	0.906	1.832	18.4	17.2	8 9	18 45.05	-29 55.1	1.587	2.470	14.4	19.9
499445	2010 EC ₃₆		7 9.1 65°65	7°9/12.2 17			41958	2000 XK ₂₉		7 9.1 155°31	6°0/ 6.6 18		
5 31	19 38.61	-1 26.0	1.858	2.630	17.1	20.9	5 31	19 45.85	-35 11.6	2.017	2.835	14.4	19.0
6 10	19 34.90	-0 49.2	1.791	2.643	14.6	20.7	6 10	19 41.21	-36 30.4	1.943	2.838	11.7	18.8
6 20	19 29.04	-0 30.0	1.742	2.657	11.8	20.5	6 20	19 33.77	-37 47.2	1.890	2.841	8.9	18.7
6 30	19 21.60	-0 31.2	1.714	2.670	9.3	20.4	6 30	19 24.09	-38 55.0	1.863	2.844	6.6	18.5
7 10	19 13.39	-0 53.2	1.711	2.683	7.9	20.4	7 10	19 13.17	-39 47.4	1.861	2.847	6.2	18.5
7 20	19 5.30	-1 34.5	1.732	2.696	8.5	20.4	7 20	19 2.23	-40 20.3	1.887	2.850	8.0	18.6
7 30	18 58.27	-2 31.3	1.778	2.710	10.5	20.6	7 30	18 52.55	-40 33.0	1.937	2.852	10.7	18.8
8 9	18 53.01	-3 38.5	1.846	2.723	13.0	20.8	8 9	18 45.19	-40 28.2	2.009	2.854	13.4	19.0
344730	2003 UU ₁₃₁		7 9.1 325°18	4°8/ 9.4 18			311479	2005 UJ ₅₁₆		7 9.1 270°97	0°2/ 9.2 18		
5 31	19 38.53	-15 51.8	1.460	2.298	18.0	19.9	5 31	19 38.56	-20 27.7	2.371	3.186	12.6	21.2
6 10	19 35.92	-14 43.7	1.365	2.275	14.7	19.6	6 10	19 34.72	-20 41.3	2.274	3.176	10.0	21.0
6 20	19 30.42	-13 39.4	1.289	2.253	10.8	19.3	6 20	19 28.91	-20 59.7	2.200	3.166	6.9	20.8
6 30	19 22.55	-12 41.3	1.235	2.232	6.8	19.0	6 30	19 21.59	-21 21.4	2.151	3.156	3.4	20.6
7 10	19 13.28	-11 51.6	1.204	2.211	4.8	18.8	7 10	19 13.42	-21 44.0	2.129	3.146	0.4	20.3
7 20	19 3.84	-11 12.6	1.197	2.192	7.4	18.9	7 20	19 5.19	-22 5.8	2.135	3.135	4.0	20.6
7 30	18 55.61	-10 45.3	1.214	2.173	11.7	19.1	7 30	18 57.76	-22 25.0	2.169	3.125	7.5	20.8
8 9	18 49.73	-10 29.3	1.252	2.156	16.0	19.3	8 9	18 51.84	-22 41.0	2.227	3.115	10.7	21.0
275293	2010 LN ₈₅		7 9.1 318°76	7°3/ 6.8 18			165189	2000 QG ₂₂₀		7 9.1 270°73	3°2/ 8.6 17		
5 31	19 37.67	-31 27.3	1.132	2.002	19.9	19.4	5 31	19 46.53	-29 11.1	1.465	2.304	17.8	20.0
6 10	19 36.96	-32 42.2	1.042	1.972	16.3	19.0	6 10	19 42.52	-29 23.0	1.379	2.293	14.3	19.7
6 20	19 32.29	-34 2.9	0.969	1.943	12.2	18.7	6 20	19 35.10	-29 34.0	1.312	2.282	10.1	19.4
6 30	19 23.96	-35 20.4	0.916	1.914	8.4	18.4	6 30	19 24.88	-29 39.1	1.267	2.270	5.6	19.1
7 10	19 13.11	-36 23.6	0.884	1.886	7.6	18.3	7 10	19 13.10	-29 33.7	1.247	2.259	3.3	19.0
7 20	19 1.59	-37 2.7	0.873	1.860	11.0	18.3	7 20	19 1.30	-29 15.1	1.252	2.247	6.9	19.2
7 30	18 51.71	-37 13.5	0.882	1.834	16.0	18.5	7 30	18 51.11	-28 44.2	1.280	2.236	11.6	19.4
8 9	18 45.42	-36 58.4	0.908	1.810	20.8	18.7	8 9	18 43.81	-28 4.5	1.331	2.224	16.0	19.6
296305	2009 DP ₁₂₆		7 9.1 268°78	0°4/ 9.0 18			65300	2002 JT ₄₄		7 9.1 319°74	9°2/ 5.3 18		
5 31	19 40.46	-22 32.0	2.086	2.908	13.9	21.1	5 31	19 46.86	-47 27.1	2.267	3.056	13.9	19.0
6 10	19 36.49	-22 41.6	1.994	2.900	11.0	20.9	6 10	19 42.28	-48 43.8	2.195	3.051	12.1	18.9
6 20	19 30.26	-22 54.9	1.924	2.892	7.5	20.7	6 20	19 34.65	-49 50.8	2.142	3.047	10.4	18.7
6 30	19 22.27	-23 9.7	1.879	2.884	3.7	20.4	6 30	19 24.56	-50 40.7	2.113	3.042	9.3	18.7
7 10	19 13.32	-23 23.7	1.860	2.877	0.5	20.1	7 10	19 13.13	-51 7.6	2.108	3.038	9.3	18.7
7 20	19 4.35	-23 34.8	1.869	2.869	4.5	20.4	7 20	19 1.74	-51 8.8	2.127	3.034	10.3	18.7
7 30	18 56.35	-23 42.0	1.904	2.861	8.3	20.7	7 30	18 51.80	-50 45.1	2.168	3.030	12.0	18.8
8 9	18 50.15	-23 45.0	1.963	2.853	11.8	20.9	8 9	18 44.43	-50 0.8	2.231	3.026	13.9	18.9
397048	2005 UQ ₉₂		7 9.1 288°69	3°6/ 9.9 18			470615	2008 RW ₁₀₉		7 9.1 267°30	8°6/ 11.9 18		
5 31	19 38.58	-13 12.3	2.227	3.029	13.7	21.3	5 31	19 38.51	-0 31.1	1.868	2.636	17.2	21.9
6 10	19 34.78	-12 39.5	2.126	3.014	11.2	21.1	6 10	19 35.04	+0 13.8	1.781	2.629	14.8	21.7
6 20	19 28.99	-12 13.6	2.047	3.000	8.2	20.9	6 20	19 29.34	+0 41.6	1.713	2.622	12.3	21.5
6 30	19 21.63	-11 55.3	1.993	2.985	5.2	20.7	6 30	19 21.86	+0 48.6	1.665	2.615	9.9	21.3
7 10	19 13.40	-11 45.0	1.965	2.970	3.6	20.6	7 10	19 13.40	+0 32.9	1.641	2.609	8.7	21.3
7 20	19 5.11	-11 42.3	1.964	2.955	5.3	20.7	7 20	19 4.87	+0 4.8	1.642	2.602	9.3	21.3
7 30	18 57.61	-11 46.5	1.989	2.941	8.4	20.8	7 30	18 57.27	-1 1.5	1.667	2.595	11.4	21.4
8 9	18 51.65	-11 56.2	2.039	2.926	11.5	21.0	8 9	18 51.45	-2 12.0	1.714	2.588	14.0	21.5
217640	1997 EQ ₂₆		7 9.1 358°96	2°6/ 8.6 17			62192	2000 SL ₄₆		7 9.1 208°53	6°4/ 10.7 18		
5 31	19 38.23	-26 15.0	1.156	2.023	19.8	19.8	5 31	19 41.29	-6 4.0	2.080	2.857	15.4	19.7
6 10	19 36.45	-26 35.5	1.089	2.020	15.7	19.6	6 10	19 36.94	-5 15.6	1.990	2.853	12.9	19.5
6 20	19 31.13	-26 59.1	1.039	2.018	10.9	19.3	6 20	19 30.47	-4 38.7	1.921	2.848	10.2	19.3
6 30	19 22.96	-27 21.2	1.010	2.016	5.7	19.0	6 30	19 22.36	-4 15.7	1.875	2.843	7.7	19.2
7 10	19 13.27	-27 36.3	1.002	2.017	2.8	18.8	7 10	19 13.36	-4 8.0	1.854	2.838	6.4	19.1
7 20	19 3.72	-27 41.0	1.017	2.018	7.1	19.1	7 20	19 4.34	-4 15.4	1.860	2.832	7.4	19.1
7 30	18 56.00	-27 34.6	1.054	2.020	12.3	19.4	7 30	18 56.21	-4 36.5	1.891	2.826	9.8	19.3
8 9	18 51.33	-27 18.8	1.111	2.024	16.9	19.7	8 9	18 49.76	-5 8.2	1.946	2.819	12.6	19.4
193730	2001 FE ₁₅₆		7 9.1 62°45	5°6/ 7.4 17			359790	2011 UO ₁₈₅		7 9.1 230°15	0°5/ 9.4 18		
5 31	19 44.44	-34 3.3	1.778	2.607	15.6	19.9	5 31	19 39.28	-18 23.3	2.494	3.300	12.3	21.1
6 10	19 40.22	-35 2.0	1.712	2.616	12.5	19.7	6 10	19 35.18	-18 52.1	2.396	3.293	9.7	20.9
6 20	19 33.08	-35 57.8	1.667	2.625	9.3	19.5	6 20	19 29.19	-19 27.7	2.321	3.285	6.7	20.7
6 30	19 23.71	-36 44.2	1.646	2.635	6.5	19.4	6 30	19 21.72	-20 8.2	2.272	3.276	3.4	20.5
7 10	19 13.21	-37 15.4	1.649	2.644	5.7	19.4	7 10	19 13.42	-20 51.2	2.251	3.268	0.5	20.2
7 20	19 2.88	-37 28.4	1.679	2.654	7.8	19.5	7 20	19 5.04	-21 33.9	2.259	3.259	3.8	20.5
7 30	18 54.05	-37 23.3	1.733	2.664	10.8	19.7	7 30	18 57.38	-22 14.1	2.295	3.250	7.2	20.7
8 9	18 47.68	-37 3.1	1.809	2.674	13.8	19.9	8 9	18 51.15	-22 50.4	2.356	3.240	10.3	20.9
257651	1999 UZ ₁₁		7 9.1 332°35	6°0/ 10.6 18			449884	2015 MC ₈₅ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
190666	2000 YB ₉₉		7 9.1 241°19	0°5/ 9.3	18		291008	2005 XK ₁₁₂		7 9.1 358°49	1°3/ 8.8	18	
5 31	19 41.00	-18 40.6	2.035	2.851	14.4	20.0	5 31	19 41.24	-24 15.9	1.691	2.527	16.0	21.1
6 10	19 37.00	-19 4.5	1.940	2.842	11.4	19.8	6 10	19 37.63	-24 32.9	1.613	2.526	12.6	20.9
6 20	19 30.69	-19 36.2	1.867	2.833	7.9	19.6	6 20	19 31.32	-24 53.6	1.554	2.525	8.7	20.7
6 30	19 22.55	-20 13.8	1.819	2.823	4.0	19.3	6 30	19 22.91	-25 14.6	1.519	2.525	4.3	20.4
7 10	19 13.34	-20 54.1	1.797	2.813	0.6	19.0	7 10	19 13.38	-25 32.5	1.510	2.525	1.4	20.2
7 20	19 4.02	-21 34.2	1.803	2.803	4.6	19.3	7 20	19 3.93	-25 44.5	1.526	2.525	5.4	20.5
7 30	18 55.63	-22 11.4	1.836	2.793	8.6	19.5	7 30	18 55.75	-25 49.6	1.567	2.526	9.7	20.7
8 9	18 49.04	-22 44.0	1.893	2.782	12.2	19.7	8 9	18 49.82	-25 48.2	1.631	2.527	13.5	21.0
131121	2001 BS ₇		7 9.1 160°09	1°6/ 8.6	18		462143	2007 TM ₂₅		7 9.2 302°84	2°3/ 8.7	17	
5 31	19 43.46	-25 32.2	2.194	3.010	13.4	20.7	5 31	19 41.84	-25 45.2	1.290	2.144	18.9	21.1
6 10	19 38.68	-25 59.2	2.113	3.015	10.6	20.5	6 10	19 39.32	-26 3.4	1.201	2.125	15.2	20.8
6 20	19 31.66	-26 28.3	2.054	3.020	7.3	20.3	6 20	19 33.27	-26 25.6	1.131	2.106	10.6	20.5
6 30	19 22.93	-26 56.2	2.020	3.024	3.7	20.1	6 30	19 24.19	-26 47.4	1.081	2.087	5.5	20.1
7 10	19 13.32	-27 19.8	2.013	3.027	1.7	19.9	7 10	19 13.25	-27 3.6	1.054	2.069	2.4	19.9
7 20	19 3.77	-27 36.6	2.035	3.030	4.7	20.2	7 20	19 2.04	-27 10.1	1.051	2.051	7.1	20.1
7 30	18 55.27	-27 45.8	2.084	3.033	8.2	20.4	7 30	18 52.37	-27 5.5	1.070	2.033	12.5	20.3
8 9	18 48.60	-27 47.7	2.157	3.035	11.3	20.6	8 9	18 45.70	-26 51.3	1.109	2.016	17.4	20.6
131573	2001 VX ₇₈		7 9.1 116°46	2°5/ 9.6	17		285159	1995 VK ₁₈		7 9.2 299°97	3°4/ 9.9	18	
5 31	19 45.35	-17 13.8	1.470	2.297	18.4	20.4	5 31	19 38.48	-13 59.8	2.082	2.891	14.3	20.9
6 10	19 40.94	-16 54.2	1.400	2.306	14.7	20.2	6 10	19 34.89	-13 30.2	1.984	2.877	11.6	20.7
6 20	19 33.58	-16 42.8	1.349	2.314	10.3	19.9	6 20	19 29.18	-13 7.6	1.907	2.862	8.5	20.5
6 30	19 25.97	-16 39.1	1.320	2.322	5.6	19.7	6 30	19 21.80	-12 52.7	1.854	2.848	5.3	20.2
7 10	19 13.23	-16 41.4	1.316	2.330	2.5	19.5	7 10	19 13.49	-12 45.6	1.827	2.834	3.4	20.1
7 20	19 2.70	-16 48.3	1.338	2.338	5.9	19.7	7 20	19 5.12	-12 45.9	1.826	2.820	5.3	20.2
7 30	18 53.69	-16 58.0	1.385	2.345	10.5	20.0	7 30	18 57.59	-12 52.5	1.852	2.807	8.7	20.4
8 9	18 47.20	-17 9.3	1.453	2.352	14.6	20.3	8 9	18 51.72	-13 4.1	1.902	2.793	12.0	20.6
307214	2002 GK ₄₇		7 9.1 73°58	3°8/ 8.6	18		480402	2015 KC ₆₉		7 9.2 41°43	6°6/ 11.6	18	
5 31	19 47.58	-32 36.7	1.757	2.582	15.9	19.7	5 31	19 38.17	-5 2.0	1.786	2.577	17.0	21.0
6 10	19 42.49	-32 40.2	1.684	2.587	12.7	19.5	6 10	19 34.78	-4 35.3	1.711	2.582	14.3	20.8
6 20	19 34.50	-32 38.8	1.631	2.593	9.1	19.3	6 20	19 29.13	-4 24.7	1.654	2.587	11.2	20.7
6 30	19 24.35	-32 28.3	1.601	2.599	5.5	19.1	6 30	19 21.76	-4 32.2	1.620	2.592	8.3	20.5
7 10	19 13.20	-32 5.4	1.598	2.605	3.8	19.1	7 10	19 13.50	-4 58.0	1.609	2.598	6.7	20.4
7 20	19 2.38	-31 29.5	1.621	2.611	6.4	19.2	7 20	19 5.30	-5 40.2	1.624	2.604	7.6	20.5
7 30	18 53.14	-30 42.7	1.670	2.617	10.0	19.5	7 30	18 58.15	-6 35.2	1.664	2.610	10.2	20.6
8 9	18 46.41	-29 48.7	1.742	2.624	13.5	19.7	8 9	18 52.84	-7 38.3	1.727	2.616	13.2	20.8
263090	2007 TE ₄₇		7 9.1 273°23	3°6/ 9.8	18		249761	2000 UG ₃₅		7 9.2 271°11	4°1/ 10.3	18	
5 31	19 42.42	-15 2.1	1.511	2.337	18.0	20.8	5 31	19 38.29	-11 0.9	2.286	3.081	13.6	20.3
6 10	19 38.95	-14 35.6	1.416	2.320	14.7	20.5	6 10	19 34.46	-10 31.6	2.192	3.073	11.2	20.1
6 20	19 32.53	-14 18.0	1.340	2.303	10.7	20.2	6 20	19 28.72	-10 10.7	2.119	3.065	8.4	19.9
6 30	19 23.63	-14 10.2	1.286	2.285	6.3	19.9	6 30	19 21.52	-9 59.2	2.070	3.057	5.6	19.8
7 10	19 13.25	-14 11.9	1.256	2.267	3.6	19.7	7 10	19 13.53	-9 57.4	2.047	3.048	4.1	19.6
7 20	19 2.63	-14 21.9	1.251	2.249	6.6	19.8	7 20	19 5.50	-10 4.6	2.052	3.040	5.4	19.7
7 30	18 53.21	-14 38.4	1.271	2.231	11.2	20.1	7 30	18 58.27	-10 19.6	2.083	3.032	8.3	19.9
8 9	18 46.17	-14 59.3	1.312	2.213	15.7	20.3	8 9	18 52.52	-10 40.5	2.139	3.024	11.2	20.0
497183	2004 TW ₆₃		7 9.1 237°58	3°0/ 8.3	17		78583	2002 SS ₁₀		7 9.2 350°12	2°5/ 8.3	18	
5 31	19 46.30	-27 12.8	1.598	2.430	16.9	22.4	5 31	19 41.18	-26 54.4	1.883	2.714	14.8	19.1
6 10	19 42.10	-27 48.5	1.510	2.421	13.5	22.2	6 10	19 37.40	-27 29.6	1.803	2.713	11.7	18.9
6 20	19 34.71	-28 27.2	1.442	2.411	9.4	21.9	6 20	19 31.08	-28 7.2	1.743	2.712	8.1	18.6
6 30	19 24.70	-29 3.9	1.397	2.400	5.2	21.7	6 30	19 22.78	-28 42.8	1.708	2.711	4.4	18.4
7 10	19 13.16	-29 32.9	1.378	2.390	3.1	21.5	7 10	19 13.41	-29 12.5	1.699	2.710	2.6	18.3
7 20	19 1.50	-29 50.0	1.384	2.378	6.7	21.7	7 20	19 4.07	-29 33.0	1.716	2.710	5.6	18.5
7 30	18 51.23	-29 54.0	1.415	2.366	11.1	21.9	7 30	18 55.90	-29 43.1	1.759	2.710	9.4	18.7
8 9	18 43.60	-29 46.5	1.468	2.354	15.2	22.1	8 9	18 49.81	-29 43.6	1.825	2.709	12.8	18.9
522158	2016 AG ₂₅₂		7 9.1 72°03	4°1/ 9.7	17		267729	2003 FC ₅		7 9.2 201°93	2°9/ 10.0	18	R
5 31	19 44.72	-15 56.4	1.302	2.137	19.9	21.2	5 31	19 52.08	-13 3.2	2.308	3.078	14.2	23.4
6 10	19 40.78	-15 8.0	1.234	2.143	16.0	21.0	6 10	19 45.34	-13 0.5	2.202	3.071	11.6	23.2
6 20	19 33.65	-14 28.0	1.184	2.149	11.5	20.7	6 20	19 36.25	-13 6.3	2.117	3.063	8.4	22.9
6 30	19 24.06	-13 57.6	1.155	2.155	6.8	20.5	6 30	19 25.28	-13 20.2	2.060	3.053	5.0	22.7
7 10	19 13.26	-13 37.3	1.150	2.161	4.1	20.3	7 10	19 13.20	-13 40.9	2.031	3.040	2.9	22.6
7 20	19 2.68	-13 26.7	1.169	2.167	7.0	20.5	7 20	19 0.98	-14 6.5	2.034	3.026	5.0	22.7
7 30	18 53.77	-13 25.0	1.212	2.173	11.6	20.8	7 30	18 49.65	-14 35.1	2.065	3.010	8.6	22.9
8 9	18 47.59	-13 30.2	1.275	2.179	15.9	21.1	8 9	18 40.08	-15 5.0	2.124	2.992	11.9	23.0
475882	2007 CB ₅₇		7 9.1 192°00	4°4/ 7.4	18		357138	2002 AU ₁₄₅		7 9.2 175°21	0°8/ 9.5	18	
5 31	19 45.02	-38 26.8	3.158	3.948	10.3	22.6	5 31	19 39.33	-18 20.4	2.714	3.516	11.5	22.5
6 10	19 39.42	-38 59.6	3.070	3.946	8.4	22.5	6 10	19 34.96	-18 33.1	2.625	3.518	9.1	22.3
6 20	19 31.92	-39 27.5	3.005	3.944	6.5	22.4	6 20	19 28.90	-18 51.0	2.558	3.519	6.3	22.2
6 30	19 23.00	-39 46.9	2.966	3.940	4.9	22.3	6 30	19 21.56	-19 12.8	2.518	3.520	3.2	22.0
7 10	19 13.36	-39 54.8	2.956	3.937	4.5	22.2	7 10	19 13.56	-19 36.6	2.505	3.521	0.8	21.8
7 20	19 3.78	-39 49.8	2.974	3.932	5.7	22.3	7 20	19 5.58	-20 0.8	2.522	3.522	3.5	22.0
7 30	18 55.06	-39 32.3	3.019	3.927	7.5	22.4	7 30	18 58.31	-20 23.9	2.567	3.522	6.6	22.2
8 9	18 47.87	-39 4.1	3.089	3.922	9.5	22.5	8 9	18 52.37	-20 45.1	2.638	3.521	9.4	22.4
385573	2004 VX ₇		7 9.1 250°00	3°8/ 7.7	18		442978	2013 CL ₁₅₀		7 9.2 352°77	3°6/ 10.7	18	
5 31	19 43.36	-29 20.5											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
249681	1999 <i>XH</i> ₁₁₇		7 9.2 293°20	2°8/ 9.7 18			512766	2016 <i>UY</i> ₅₄		7 9.2 221°00	2°7/10.2 18		
5 31	19 39.85	-15 56.5	2.256	3.062	13.4	20.0	5 31	19 38.11	-13 5.1	2.550	3.344	12.4	21.6
6 10	19 35.86	-15 20.2	2.147	3.040	10.9	19.8	6 10	19 34.14	-12 58.6	2.455	3.340	10.0	21.4
6 20	19 29.81	-14 48.3	2.060	3.017	7.9	19.5	6 20	19 28.43	-12 59.8	2.383	3.335	7.2	21.2
6 30	19 22.13	-14 21.2	1.998	2.995	4.7	19.3	6 30	19 21.40	-13 8.6	2.336	3.330	4.4	21.0
7 10	19 13.51	-13 59.2	1.962	2.972	2.8	19.1	7 10	19 13.66	-13 24.2	2.317	3.325	2.7	20.9
7 20	19 4.77	-13 42.6	1.955	2.949	5.0	19.2	7 20	19 5.90	-13 45.2	2.325	3.320	4.3	21.0
7 30	18 56.80	-13 31.1	1.974	2.927	8.3	19.4	7 30	18 58.85	-14 10.1	2.361	3.314	7.2	21.2
8 9	18 50.40	-13 24.2	2.017	2.904	11.6	19.5	8 9	18 53.15	-14 37.2	2.423	3.308	10.0	21.4
424462	2008 <i>CM</i> ₁₃₁		7 9.2 209°40	0°6/ 9.3 17			298619	2004 <i>AW</i> ₁₅		7 9.2 243°38	1°0/ 8.9 18		
5 31	19 44.32	-19 36.4	1.862	2.679	15.5	22.3	5 31	19 41.90	-24 23.9	2.097	2.918	13.8	21.3
6 10	19 39.82	-19 47.4	1.772	2.674	12.3	22.1	6 10	19 37.66	-24 33.5	2.008	2.913	10.9	21.1
6 20	19 32.75	-20 5.1	1.703	2.668	8.5	21.9	6 20	19 31.12	-24 45.3	1.939	2.907	7.5	20.9
6 30	19 23.64	-20 27.5	1.658	2.662	4.3	21.6	6 30	19 22.80	-24 57.0	1.896	2.901	3.7	20.7
7 10	19 13.38	-20 51.7	1.639	2.656	0.7	21.3	7 10	19 13.53	-25 5.8	1.879	2.895	1.1	20.4
7 20	19 3.07	-21 15.1	1.648	2.649	4.9	21.6	7 20	19 4.27	-25 10.1	1.890	2.889	4.6	20.7
7 30	18 53.86	-21 35.8	1.684	2.641	9.2	21.9	7 30	18 56.02	-25 9.1	1.928	2.883	8.4	20.9
8 9	18 46.71	-21 52.9	1.743	2.633	13.0	22.1	8 9	18 49.61	-25 3.1	1.990	2.877	11.8	21.1
183282	2002 <i>TM</i> ₂₈₃		7 9.2 303°62	5°8/ 9.8 18			232817	2004 <i>RA</i> ₃₂₂		7 9.2 221°42	4°3/10.5 18		
5 31	19 39.90	-12 40.9	1.440	2.269	18.6	19.2	5 31	19 41.03	-10 5.0	2.181	2.970	14.4	21.2
6 10	19 37.28	-11 46.5	1.335	2.237	15.5	18.9	6 10	19 36.75	-9 42.8	2.085	2.962	11.8	21.0
6 20	19 31.64	-10 59.8	1.248	2.206	11.7	18.6	6 20	19 30.40	-9 30.5	2.010	2.954	8.9	20.8
6 30	19 23.37	-10 23.9	1.182	2.174	7.8	18.3	6 30	19 22.44	-9 29.1	1.960	2.945	6.0	20.6
7 10	19 13.39	-10 0.8	1.138	2.143	5.8	18.1	7 10	19 13.57	-9 38.5	1.936	2.936	4.3	20.5
7 20	19 2.93	-9 51.8	1.119	2.111	8.1	18.1	7 20	19 4.64	-9 57.8	1.939	2.926	5.7	20.5
7 30	18 53.51	-9 56.5	1.122	2.080	12.6	18.3	7 30	18 56.54	-10 25.0	1.968	2.916	8.7	20.7
8 9	18 46.46	-10 12.9	1.146	2.050	17.3	18.5	8 9	18 50.05	-10 57.8	2.023	2.906	11.8	20.9
102290	1999 <i>TH</i> ₇₄		7 9.2 101°70	2°4/ 9.8 17			316243	2010 <i>OG</i> ₃₁		7 9.2 265°52	0°7/ 8.9 18		
5 31	19 44.63	-15 51.0	1.609	2.428	17.4	20.9	5 31	19 39.33	-22 32.7	2.517	3.330	12.0	21.0
6 10	19 40.06	-15 45.6	1.543	2.444	13.9	20.7	6 10	19 35.35	-22 58.3	2.413	3.314	9.5	20.8
6 20	19 32.83	-15 49.7	1.497	2.459	9.8	20.5	6 20	19 29.44	-23 28.1	2.331	3.297	6.5	20.6
6 30	19 23.59	-16 2.5	1.473	2.474	5.4	20.2	6 30	19 21.98	-23 59.9	2.275	3.280	3.2	20.4
7 10	19 13.41	-16 21.8	1.475	2.488	2.4	20.1	7 10	19 13.63	-24 31.0	2.248	3.264	0.8	20.2
7 20	19 3.45	-16 45.2	1.503	2.503	5.4	20.3	7 20	19 5.16	-24 59.0	2.248	3.247	4.0	20.4
7 30	18 54.89	-17 10.3	1.557	2.517	9.6	20.6	7 30	18 57.40	-25 22.4	2.276	3.229	7.4	20.6
8 9	18 48.61	-17 35.3	1.634	2.530	13.4	20.9	8 9	18 51.09	-25 40.3	2.330	3.212	10.5	20.7
469573	2003 <i>WD</i> ₉₃		7 9.2 233°47	2°4/ 9.8 18			63180	2000 <i>YK</i> ₈₁		7 9.2 329°15	2°5/ 8.1 18		
5 31	19 41.68	-15 45.8	2.388	3.186	13.0	22.1	5 31	19 39.40	-26 0.7	2.077	2.904	13.7	19.0
6 10	19 37.11	-15 26.4	2.286	3.174	10.5	21.9	6 10	19 35.86	-26 51.7	1.991	2.900	10.8	18.8
6 20	19 30.55	-15 12.4	2.206	3.162	7.5	21.7	6 20	19 30.01	-27 46.6	1.927	2.895	7.5	18.6
6 30	19 22.46	-15 4.0	2.151	3.148	4.3	21.4	6 30	19 22.32	-28 41.3	1.888	2.891	4.1	18.4
7 10	19 13.51	-15 0.5	2.124	3.135	2.4	21.3	7 10	19 13.60	-29 31.1	1.875	2.886	2.6	18.2
7 20	19 4.49	-15 1.2	2.125	3.121	4.5	21.4	7 20	19 4.81	-30 12.5	1.890	2.883	5.4	18.4
7 30	18 56.26	-15 5.4	2.154	3.106	7.8	21.6	7 30	18 56.99	-30 43.3	1.931	2.879	8.8	18.6
8 9	18 49.54	-15 12.1	2.207	3.091	10.9	21.8	8 9	18 51.01	-31 3.3	1.995	2.875	12.1	18.8
116186	2003 <i>XZ</i> ₇		7 9.2 246°60	6°7/ 6.5 18			102621	1999 <i>VO</i> ₂₅		7 9.2 265°85	0°3/ 9.1 18		
5 31	19 46.27	-38 56.4	2.196	3.004	13.7	20.1	5 31	19 41.61	-22 17.7	1.938	2.761	14.7	20.5
6 10	19 41.58	-40 0.6	2.108	2.993	11.4	19.9	6 10	19 37.67	-22 26.0	1.845	2.752	11.6	20.2
6 20	19 34.11	-41 0.4	2.042	2.982	9.0	19.7	6 20	19 31.28	-22 38.6	1.774	2.742	8.0	20.0
6 30	19 24.38	-41 49.3	2.000	2.971	7.1	19.6	6 30	19 22.95	-22 53.1	1.727	2.732	4.0	19.7
7 10	19 13.35	-42 21.5	1.984	2.959	6.8	19.6	7 10	19 13.55	-23 7.0	1.706	2.722	0.5	19.4
7 20	19 2.21	-42 33.6	1.994	2.947	8.3	19.6	7 20	19 4.09	-23 18.0	1.712	2.712	4.8	19.7
7 30	18 52.27	-42 25.2	2.028	2.934	10.8	19.8	7 30	18 55.68	-23 25.1	1.745	2.702	8.9	20.0
8 9	18 44.57	-41 59.5	2.086	2.922	13.3	19.9	8 9	18 49.21	-23 27.9	1.801	2.692	12.6	20.2
77259	2001 <i>FX</i> ₄₈		7 9.2 348°06	7°6/10.8 18			362002	2008 <i>UR</i> ₁₁₂		7 9.2 207°72	2°7/ 8.6 17		
5 31	19 37.23	- 6 46.1	1.604	2.412	17.9	18.6	5 31	19 46.59	-26 47.2	1.380	2.222	18.6	21.1
6 10	19 34.41	- 5 43.9	1.524	2.406	15.1	18.4	6 10	19 42.64	-27 10.2	1.305	2.221	14.8	20.8
6 20	19 29.11	- 4 55.0	1.463	2.402	11.9	18.2	6 20	19 35.23	-27 35.7	1.248	2.220	10.3	20.6
6 30	19 21.87	- 4 23.3	1.424	2.398	9.0	18.0	6 30	19 25.05	-27 58.5	1.213	2.218	5.4	20.3
7 10	19 13.58	- 4 10.8	1.407	2.394	7.6	17.9	7 10	19 13.36	-28 13.3	1.203	2.216	2.8	20.1
7 20	19 5.31	- 4 17.7	1.414	2.392	8.7	17.9	7 20	19 1.76	-28 16.8	1.217	2.215	6.8	20.4
7 30	18 58.14	- 4 42.0	1.445	2.390	11.5	18.1	7 30	18 51.87	-28 8.7	1.255	2.213	11.6	20.6
8 9	18 53.00	- 5 19.7	1.497	2.388	14.7	18.3	8 9	18 44.92	-27 51.1	1.314	2.211	16.0	20.9
62740	2000 <i>TU</i> ₆₄		7 9.2 170°63	1°3/ 9.7 18			509227	2006 <i>SK</i> ₃₇₄		7 9.2 221°00	3°9/ 7.4 18		
5 31	19 39.13	-16 36.4	2.747	3.545	11.5	20.4	5 31	19 42.88	-32 3.0	2.488	3.300	12.2	22.2
6 10	19 34.77	-16 45.3	2.658	3.548	9.1	20.3	6 10	19 38.31	-32 54.6	2.397	3.293	9.7	22.0
6 20	19 28.76	-17 0.1	2.592	3.550	6.4	20.1	6 20	19 31.54	-33 45.7	2.329	3.286	7.1	21.8
6 30	19 21.52	-17 19.7	2.552	3.552	3.4	19.9	6 30	19 23.03	-34 31.8	2.287	3.279	4.7	21.7
7 10	19 13.64	-17 42.7	2.540	3.554	1.3	19.8	7 10	19 13.55	-35 8.7	2.272	3.271	4.0	21.6
7 20	19 5.78	-18 7.5	2.557	3.555	3.6	19.9	7 20	19 3.98	-35 33.5	2.286	3.263	5.8	21.7
7 30	18 58.62	-18 32.5	2.602	3.556	6.5	20.1	7 30	18 55.31	-35 45.3	2.326	3.255	8.5	21.9
8 9	18 52.75	-18 56.5	2.673	3.557	9.2	20.3	8 9	18 48.34	-35 45.0	2.390	3.246	11.2	22.0
295874	2008 <i>WT</i> ₃₂		7 9.2 199°88	3°7/10.6 18			362899	2012 <i>BB</i> ₁₄₆					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
184240	2004 <i>RM</i> ₂₃₂		7 9.2 355°17	1°1/ 8.9	18		17049	Miron		7 9.2 291°09	1°2/ 9.6	18	
5 31	19 38.20	-24 1.6	1.921	2.754	14.4	19.5	5 31	19 40.47	-17 30.4	1.682	2.509	16.4	18.5
6 10	19 34.95	-24 17.4	1.839	2.751	11.4	19.3	6 10	19 37.08	-17 46.1	1.596	2.503	13.1	18.3
6 20	19 29.37	-24 36.4	1.778	2.749	7.8	19.1	6 20	19 31.06	-18 11.6	1.530	2.497	9.2	18.0
6 30	19 21.98	-24 56.1	1.741	2.747	3.9	18.9	6 30	19 22.92	-18 45.2	1.486	2.491	4.7	17.7
7 10	19 13.65	-25 13.5	1.730	2.746	1.2	18.7	7 10	19 13.59	-19 23.8	1.469	2.485	1.2	17.5
7 20	19 5.36	-25 26.3	1.746	2.745	4.8	18.9	7 20	19 4.19	-20 3.8	1.477	2.479	5.2	17.7
7 30	18 58.13	-25 33.4	1.787	2.745	8.7	19.1	7 30	18 55.91	-20 42.3	1.511	2.473	9.6	18.0
8 9	18 52.81	-25 34.8	1.851	2.745	12.2	19.4	8 9	18 49.77	-21 17.2	1.567	2.467	13.6	18.2
371498	2006 <i>UV</i> ₂₆		7 9.2 313°34	1°1/ 9.4	17		521223	2015 <i>GC</i> ₅₃		7 9.2 276°07	2°0/ 10.1	18	
5 31	19 40.93	-19 44.4	1.419	2.262	18.1	21.5	5 31	19 39.79	-13 42.6	1.902	2.713	15.4	21.0
6 10	19 37.96	-19 39.6	1.336	2.252	14.5	21.2	6 10	19 36.28	-14 14.2	1.806	2.702	12.4	20.8
6 20	19 31.93	-19 42.0	1.272	2.243	10.1	20.9	6 20	19 30.40	-14 59.1	1.730	2.690	8.8	20.5
6 30	19 23.43	-19 50.2	1.229	2.235	5.2	20.6	6 30	19 22.59	-15 55.9	1.678	2.678	4.9	20.3
7 10	19 13.52	-20 1.7	1.210	2.226	1.1	20.3	7 10	19 13.62	-17 1.5	1.653	2.667	2.0	20.1
7 20	19 3.54	-20 14.1	1.216	2.218	5.8	20.6	7 20	19 4.47	-18 11.6	1.655	2.655	4.9	20.2
7 30	18 54.95	-20 25.5	1.246	2.211	10.9	20.9	7 30	18 56.21	-19 21.7	1.683	2.643	9.0	20.4
8 9	18 48.90	-20 35.0	1.296	2.204	15.4	21.1	8 9	18 49.79	-20 28.3	1.736	2.631	12.8	20.7
377714	2005 <i>WK</i> ₁₀₁		7 9.2 204°38	2°2/ 9.8	18		121084	1999 <i>FY</i> ₁₆		7 9.2 315°22	3°3/ 8.4	17	
5 31	19 42.59	-16 26.2	1.974	2.784	14.9	22.0	5 31	19 41.44	-28 7.9	1.490	2.336	17.2	19.1
6 10	19 38.21	-16 14.4	1.885	2.781	12.0	21.8	6 10	19 38.53	-28 35.6	1.404	2.322	13.8	18.9
6 20	19 31.52	-16 9.7	1.818	2.778	8.5	21.6	6 20	19 32.45	-29 5.1	1.336	2.308	9.7	18.6
6 30	19 23.02	-16 11.4	1.774	2.774	4.7	21.4	6 30	19 23.74	-29 31.4	1.291	2.295	5.4	18.3
7 10	19 13.56	-16 18.5	1.757	2.770	2.2	21.2	7 10	19 13.52	-29 49.4	1.270	2.282	3.4	18.1
7 20	19 4.10	-16 29.5	1.767	2.766	4.9	21.4	7 20	19 3.19	-29 55.4	1.274	2.269	6.9	18.3
7 30	18 55.66	-16 43.0	1.804	2.761	8.7	21.6	7 30	18 54.28	-29 48.5	1.301	2.257	11.4	18.5
8 9	18 49.07	-16 57.6	1.865	2.756	12.3	21.8	8 9	18 48.02	-29 30.5	1.349	2.246	15.6	18.8
284275	2006 <i>JW</i> ₄		7 9.2 322°85	0°8/ 9.4	18		372398	2009 <i>QS</i> ₅₈		7 9.2 257°24	4°0/ 10.2	18	
5 31	19 36.69	-19 6.3	1.520	2.364	17.0	20.3	5 31	19 41.56	-12 46.4	1.766	2.577	16.4	21.3
6 10	19 34.57	-19 16.0	1.424	2.342	13.7	20.0	6 10	19 37.78	-12 24.2	1.672	2.565	13.4	21.0
6 20	19 29.64	-19 34.7	1.347	2.320	9.6	19.7	6 20	19 31.47	-12 12.1	1.598	2.553	9.9	20.8
6 30	19 22.35	-20 1.1	1.292	2.298	4.9	19.4	6 30	19 23.12	-12 11.0	1.547	2.541	6.2	20.6
7 10	19 13.61	-20 32.2	1.261	2.278	0.9	19.0	7 10	19 13.59	-12 20.4	1.520	2.528	4.0	20.4
7 20	19 4.61	-21 4.7	1.255	2.258	5.6	19.3	7 20	19 3.93	-12 39.0	1.520	2.515	6.1	20.5
7 30	18 56.72	-21 35.4	1.272	2.238	10.6	19.5	7 30	18 55.30	-13 4.9	1.546	2.502	9.9	20.7
8 9	18 51.11	-22 2.4	1.311	2.220	15.1	19.8	8 9	18 48.66	-13 35.3	1.594	2.489	13.8	20.9
181837	1998 <i>SF</i> ₁₆₀		7 9.2 329°99	3°0/ 8.0	18		340513	2006 <i>JC</i> ₁₅		7 9.2 246°44	1°3/ 8.7	18	R
5 31	19 38.47	-27 49.9	1.988	2.821	14.0	18.9	5 31	19 43.12	-24 32.1	2.172	2.988	13.6	21.2
6 10	19 35.31	-28 33.8	1.899	2.810	11.1	18.7	6 10	19 38.71	-24 56.2	2.071	2.973	10.8	21.0
6 20	19 29.74	-29 20.1	1.832	2.800	7.8	18.5	6 20	19 31.96	-25 23.7	1.991	2.957	7.4	20.8
6 30	19 22.23	-30 4.6	1.788	2.790	4.5	18.3	6 30	19 23.32	-25 51.5	1.937	2.942	3.8	20.5
7 10	19 13.63	-30 43.0	1.771	2.780	3.1	18.2	7 10	19 13.58	-26 16.3	1.910	2.925	1.4	20.3
7 20	19 4.94	-31 11.6	1.780	2.771	5.8	18.3	7 20	19 3.69	-26 35.5	1.911	2.908	4.8	20.5
7 30	18 57.26	-31 28.9	1.814	2.762	9.3	18.5	7 30	18 54.71	-26 47.7	1.939	2.891	8.6	20.7
8 9	18 51.51	-31 35.1	1.872	2.754	12.6	18.7	8 9	18 47.53	-26 52.8	1.992	2.873	12.0	20.9
55997	1998 <i>SB</i> ₁₂₈		7 9.2 334°91	2°2/ 8.5	18		182051	2000 <i>DP</i> ₄₇		7 9.2 125°26	0°5/ 9.3	17	
5 31	19 40.23	-25 22.8	1.714	2.552	15.7	19.3	5 31	19 44.67	-19 57.1	1.799	2.618	15.8	20.8
6 10	19 36.98	-25 59.0	1.632	2.546	12.4	19.0	6 10	19 39.99	-20 5.0	1.726	2.629	12.5	20.6
6 20	19 31.01	-26 39.4	1.570	2.541	8.6	18.8	6 20	19 32.78	-20 18.9	1.674	2.640	8.6	20.4
6 30	19 22.89	-27 19.8	1.532	2.537	4.5	18.5	6 30	19 23.65	-20 36.7	1.645	2.650	4.3	20.2
7 10	19 13.57	-27 55.7	1.519	2.532	2.3	18.4	7 10	19 13.57	-20 55.7	1.643	2.660	0.6	19.9
7 20	19 4.23	-28 23.3	1.532	2.529	5.8	18.6	7 20	19 3.65	-21 13.6	1.668	2.669	4.8	20.3
7 30	18 56.09	-28 40.7	1.570	2.525	9.9	18.8	7 30	18 54.99	-21 28.8	1.720	2.678	9.0	20.5
8 9	18 50.17	-28 48.3	1.630	2.522	13.7	19.1	8 9	18 48.45	-21 40.7	1.795	2.686	12.6	20.8
311373	2005 <i>SC</i> ₁₇₅		7 9.2 209°74	0°2/ 9.2	18		179555	2002 <i>DW</i> ₅		7 9.2 138°65	3°5/ 10.7	17	
5 31	19 40.14	-21 23.9	2.630	3.437	11.7	21.6	5 31	19 38.45	- 9 54.1	2.630	3.412	12.4	21.2
6 10	19 35.73	-21 25.3	2.536	3.433	9.2	21.4	6 10	19 34.26	- 9 47.9	2.547	3.420	10.1	21.1
6 20	19 29.52	-21 29.7	2.464	3.428	6.3	21.2	6 20	19 28.44	- 9 50.8	2.486	3.428	7.5	20.9
6 30	19 21.95	-21 35.6	2.419	3.424	3.1	21.0	6 30	19 21.41	-10 3.2	2.450	3.435	4.9	20.7
7 10	19 13.67	-21 41.7	2.402	3.419	0.3	20.7	7 10	19 13.78	-10 24.1	2.441	3.442	3.5	20.7
7 20	19 5.40	-21 46.5	2.414	3.413	3.6	21.0	7 20	19 6.19	-10 52.3	2.460	3.449	4.6	20.7
7 30	18 57.89	-21 49.5	2.453	3.408	6.9	21.2	7 30	18 59.33	-11 25.8	2.508	3.456	7.1	20.9
8 9	18 51.80	-21 50.4	2.519	3.402	9.7	21.4	8 9	18 53.77	-12 2.5	2.580	3.462	9.6	21.1
479197	2013 <i>CA</i> ₈₃		7 9.2 126°19	1°9/ 10.0	17		475110	2005 <i>US</i> ₂₅₂		7 9.2 243°51	2°5/ 8.2	18	
5 31	19 38.65	-14 40.8	2.613	3.410	12.1	22.2	5 31	19 41.43	-29 11.4	2.687	3.497	11.4	22.4
6 10	19 34.45	-14 49.1	2.532	3.419	9.6	22.0	6 10	19 36.94	-29 40.1	2.586	3.484	9.1	22.2
6 20	19 28.57	-15 4.5	2.473	3.428	6.8	21.9	6 20	19 30.49	-30 9.0	2.509	3.471	6.4	22.0
6 30	19 21.46	-15 26.4	2.439	3.437	3.8	21.7	6 30	19 22.51	-30 34.7	2.458	3.457	3.7	21.8
7 10	19 13.73	-15 53.1	2.434	3.446	1.9	21.5	7 10	19 13.68	-30 54.5	2.434	3.443	2.6	21.7
7 20	19 6.05	-16 22.9	2.457	3.455	3.8	21.7	7 20	19 4.77	-31 6.3	2.440	3.428	4.7	21.8
7 30	18 59.12	-16 54.0	2.508	3.463	6.7	21.9	7 30	18 56.63	-31 9.2	2.472	3.414	7.5	22.0
8 9	18 53.54	-17 24.8	2.585	3.471	9.4	22.1	8 9	18 49.98	-31 4.0	2.530	3.398	10.2	22.1
173119	1981 <i>EU</i> ₄₆		7 9.2 73°61	1°0/ 9.5	18		68055	2000 <i>YF</i> ₅₆		7 9.2 31			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
172264	2002 <i>TW</i> ₁₅		7 9.2 308°98	1.6°/ 9.6	18		475398	2006 <i>HU</i> ₈₈		7 9.2 9°31	0.7°/ 8.9	16	
5 31	19 39.51	-18 11.7	1.822	2.648	15.4	19.8	5 31	19 37.47	-17 53.4	1.416	2.262	18.0	20.7
6 10	19 36.11	-18 3.2	1.732	2.637	12.3	19.5	6 10	19 35.21	-19 9.9	1.345	2.264	14.2	20.4
6 20	19 30.28	-18 1.2	1.661	2.627	8.7	19.3	6 20	19 30.06	-20 41.8	1.293	2.267	9.7	20.2
6 30	19 22.53	-18 5.0	1.614	2.617	4.6	19.0	6 30	19 22.56	-22 24.1	1.264	2.270	4.7	19.9
7 10	19 13.69	-18 13.0	1.592	2.607	1.6	18.8	7 10	19 13.74	-24 9.0	1.259	2.275	0.9	19.6
7 20	19 4.81	-18 23.6	1.597	2.598	5.0	19.0	7 20	19 4.86	-25 48.3	1.280	2.281	5.9	20.0
7 30	18 56.95	-18 35.3	1.627	2.589	9.1	19.2	7 30	18 57.30	-27 15.6	1.326	2.288	10.7	20.3
8 9	18 51.05	-18 47.1	1.681	2.580	12.9	19.4	8 9	18 52.16	-28 27.6	1.393	2.296	14.8	20.6
217665	1998 <i>SX</i> ₁₀₉		7 9.2 333°37	15°1/12.5	17		135282	2001 <i>SD</i> ₁₄₂		7 9.2 90°03	0°8/ 8.9	18	
5 31	19 34.65	+14 22.3	1.961	2.647	18.9	19.8	5 31	19 42.14	-24 26.1	2.090	2.910	13.9	19.2
6 10	19 32.14	+16 15.3	1.880	2.631	17.7	19.7	6 10	19 37.74	-24 30.9	2.012	2.917	10.9	19.0
6 20	19 27.50	+17 47.2	1.815	2.615	16.5	19.6	6 20	19 31.12	-24 37.5	1.956	2.924	7.5	18.8
6 30	19 21.16	+18 50.9	1.767	2.601	15.6	19.5	6 30	19 22.83	-24 43.5	1.925	2.930	3.7	18.6
7 10	19 13.82	+19 21.2	1.737	2.587	15.1	19.4	7 10	19 13.73	-24 46.9	1.921	2.937	0.9	18.4
7 20	19 6.34	+19 15.7	1.726	2.574	15.3	19.4	7 20	19 4.76	-24 46.0	1.944	2.943	4.4	18.7
7 30	18 59.67	+18 35.3	1.734	2.561	16.0	19.4	7 30	18 56.88	-24 40.6	1.994	2.950	8.1	18.9
8 9	18 54.64	+17 24.9	1.760	2.550	17.2	19.5	8 9	18 50.85	-24 31.1	2.068	2.956	11.4	19.1
293907	2007 <i>RU</i> ₃₁₇		7 9.2 290°93	22°3/13.1	18		188231	2002 <i>TU</i> ₃₅₄		7 9.2 219°67	6°2/11.0	18	
5 31	19 39.82	+14 45.7	1.163	1.898	27.2	20.2	5 31	19 42.12	- 6 9.7	1.977	2.756	16.0	21.8
6 10	19 37.58	+17 34.0	1.103	1.891	25.7	20.1	6 10	19 37.87	- 5 36.9	1.883	2.748	13.4	21.6
6 20	19 32.01	+19 52.1	1.056	1.883	24.2	19.9	6 20	19 31.36	- 5 17.2	1.809	2.740	10.5	21.4
6 30	19 23.65	+21 26.8	1.021	1.875	23.0	19.8	6 30	19 23.05	- 5 12.7	1.758	2.731	7.7	21.3
7 10	19 13.60	+22 7.3	1.001	1.868	22.4	19.7	7 10	19 13.72	- 5 24.2	1.733	2.722	6.2	21.1
7 20	19 3.33	+21 48.9	0.994	1.861	22.5	19.7	7 20	19 4.29	- 5 50.8	1.734	2.712	7.3	21.2
7 30	18 54.49	+20 33.5	1.003	1.854	23.4	19.8	7 30	18 55.76	- 6 30.2	1.760	2.701	10.0	21.3
8 9	18 48.43	+18 31.3	1.024	1.847	24.9	19.8	8 9	18 49.00	- 7 18.7	1.810	2.690	13.1	21.5
17377	1981 <i>EF</i> ₅		7 9.2 206°56	4°5/10.5	18		299759	2006 <i>RE</i> ₁₂₂		7 9.2 36°44	2°5/10.0	16	
5 31	19 41.91	- 9 21.1	2.352	3.132	13.7	19.8	5 31	19 39.14	-14 48.3	1.946	2.760	15.0	20.7
6 10	19 37.27	- 8 50.5	2.257	3.126	11.3	19.6	6 10	19 35.50	-14 43.7	1.866	2.763	12.0	20.5
6 20	19 30.69	- 8 29.0	2.182	3.120	8.6	19.5	6 20	19 29.67	-14 48.1	1.806	2.766	8.6	20.3
6 30	19 22.61	- 8 17.8	2.132	3.113	6.0	19.3	6 30	19 22.17	-15 1.0	1.771	2.769	4.9	20.1
7 10	19 13.72	- 8 17.1	2.109	3.106	4.5	19.2	7 10	19 13.80	-15 20.9	1.761	2.773	2.5	19.9
7 20	19 4.78	- 8 26.4	2.114	3.098	5.7	19.2	7 20	19 5.48	-15 45.9	1.778	2.776	4.9	20.1
7 30	18 56.63	- 8 44.5	2.146	3.089	8.4	19.4	7 30	18 58.16	-16 13.8	1.821	2.780	8.5	20.3
8 9	18 49.99	- 9 9.2	2.203	3.080	11.2	19.6	8 9	18 52.62	-16 42.5	1.888	2.784	11.9	20.5
389014	2008 <i>UL</i> ₂₀₆		7 9.2 273°31	7°6/11.5	18		27253	Graceleanor		7 9.2 133°94	1°0/ 9.5	17	
5 31	19 38.99	- 2 44.7	1.943	2.716	16.4	21.1	5 31	19 45.17	-19 3.0	1.789	2.606	16.0	19.9
6 10	19 35.53	- 2 7.0	1.844	2.699	14.1	20.9	6 10	19 40.41	-19 5.1	1.714	2.616	12.7	19.7
6 20	19 29.83	- 1 44.5	1.763	2.682	11.4	20.7	6 20	19 33.10	-19 13.7	1.660	2.625	8.8	19.5
6 30	19 22.32	- 1 40.5	1.705	2.665	9.0	20.5	6 30	19 23.86	-19 27.0	1.631	2.634	4.5	19.3
7 10	19 13.73	- 1 56.4	1.671	2.648	7.7	20.4	7 10	19 13.66	-19 42.7	1.627	2.643	1.0	19.0
7 20	19 4.96	- 2 32.0	1.661	2.630	8.4	20.4	7 20	19 3.60	-19 58.5	1.651	2.651	4.9	19.3
7 30	18 57.01	- 3 24.5	1.677	2.612	10.8	20.5	7 30	18 54.81	-20 13.0	1.701	2.659	9.0	19.6
8 9	18 50.76	- 4 29.4	1.716	2.595	13.7	20.6	8 9	18 48.14	-20 25.4	1.774	2.666	12.7	19.8
164480	2006 <i>FZ</i> ₂₁		7 9.2 60°34	2°0/ 8.7	17		257041	2008 <i>FN</i> ₅₈		7 9.2 110°99	6°6/11.9	16	
5 31	19 44.81	-24 55.6	1.300	2.148	19.2	20.4	5 31	19 37.78	- 1 16.1	2.516	3.266	13.7	20.8
6 10	19 41.22	-25 20.3	1.236	2.155	15.1	20.2	6 10	19 33.79	- 0 38.9	2.438	3.275	11.7	20.6
6 20	19 34.21	-25 49.3	1.190	2.163	10.4	19.9	6 20	19 28.16	- 0 15.0	2.381	3.284	9.5	20.5
6 30	19 24.55	-26 17.9	1.165	2.171	5.3	19.7	6 30	19 21.32	- 0 6.2	2.347	3.293	7.6	20.4
7 10	19 13.55	-26 40.8	1.165	2.180	2.1	19.5	7 10	19 13.88	- 0 13.1	2.338	3.302	6.6	20.3
7 20	19 2.78	-26 54.4	1.188	2.188	6.5	19.8	7 20	19 6.50	- 0 35.2	2.355	3.311	7.1	20.4
7 30	18 53.80	-26 57.8	1.236	2.197	11.4	20.1	7 30	18 59.87	- 1 10.4	2.399	3.320	8.7	20.5
8 9	18 47.75	-26 52.4	1.304	2.205	15.7	20.4	8 9	18 54.55	- 1 55.6	2.467	3.328	10.7	20.6
177237	2003 <i>UH</i> ₂₆₆		7 9.2 240°34	1°4/ 9.6	18		508527	2016 <i>RD</i> ₁₁		7 9.2 30°48	2°3/ 8.8	17	
5 31	19 44.51	-18 2.7	1.862	2.675	15.6	21.2	5 31	19 42.30	-27 1.6	1.457	2.303	17.6	20.8
6 10	19 40.12	-18 2.4	1.762	2.661	12.5	21.0	6 10	19 38.84	-27 13.1	1.394	2.312	13.9	20.6
6 20	19 33.12	-18 9.3	1.682	2.646	8.8	20.7	6 20	19 32.35	-27 25.4	1.349	2.322	9.6	20.4
6 30	19 23.99	-18 22.3	1.627	2.630	4.6	20.5	6 30	19 23.56	-27 34.6	1.327	2.332	5.0	20.2
7 10	19 13.59	-18 39.1	1.598	2.613	1.4	20.2	7 10	19 13.69	-27 36.9	1.329	2.343	2.4	20.0
7 20	19 3.01	-18 57.8	1.596	2.596	5.1	20.4	7 20	19 4.11	-27 30.4	1.356	2.355	6.0	20.3
7 30	18 53.43	-19 16.3	1.620	2.578	9.5	20.6	7 30	18 56.14	-27 15.4	1.408	2.367	10.4	20.6
8 9	18 45.89	-19 33.6	1.668	2.560	13.4	20.8	8 9	18 50.76	-26 53.7	1.480	2.380	14.3	20.8
8509	1991 <i>FV</i> ₂		7 9.2 15°18	5°3/ 8.1	18	A	481756	2008 <i>JM</i> ₁₃		7 9.2 256°12	1°3/ 8.6	18	
5 31	19 39.53	-30 6.8	1.044	1.917	21.0	16.6	5 31	19 39.54	-23 36.7	2.461	3.276	12.2	21.4
6 10	19 37.96	-30 52.6	0.989	1.922	16.7	16.4	6 10	19 35.59	-24 16.4	2.365	3.268	9.6	21.2
6 20	19 32.45	-31 38.3	0.951	1.927	11.9	16.1	6 20	19 29.66	-25 0.3	2.292	3.258	6.6	21.0
6 30	19 23.81	-32 16.3	0.932	1.935	7.2	15.9	6 30	19 22.18	-25 45.7	2.245	3.249	3.3	20.7
7 10	19 13.61	-32 39.0	0.935	1.943	5.4	15.8	7 10	19 13.80	-26 29.2	2.225	3.240	1.4	20.6
7 20	19 3.74	-32 42.3	0.959	1.953	8.8	16.1	7 20	19 5.33	-27 7.9	2.234	3.230	4.3	20.8
7 30	18 56.03	-32 26.7	1.003	1.964	13.4	16.4	7 30	18 57.61	-27 39.9	2.271	3.221	7.6	21.0
8 9	18 51.73	-31 56.5	1.067	1.976	17.8	16.6	8 9	18 51.40	-28 4.4	2.332	3.211	10.6	21.1
300817	2007 <i>WY</i> ₄₃		7 9.2 328°00	2°6/ 8.6	18		97166	1999 <i>VO</i> ₁₈₇ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
245600	2005 <i>VD</i> ₁₂₄		7 9.2 10 ^o .14	2 ^o .5/ 9.4	18		176120	2001 <i>DQ</i> ₇₈		7 9.2 216 ^o .07	4 ^o .1/ 8.2	18	
5 31	19 43.67	-18 25.5	2.163	2.969	13.9	19.5	5 31	19 47.42	-30 47.0	1.731	2.557	16.1	20.8
6 10	19 38.73	-17 27.6	2.077	2.970	11.1	19.3	6 10	19 42.81	-31 22.8	1.647	2.553	12.9	20.6
6 20	19 31.69	-16 31.6	2.012	2.971	7.9	19.1	6 20	19 35.16	-31 58.1	1.584	2.548	9.2	20.3
6 30	19 23.10	-15 38.5	1.973	2.971	4.5	18.9	6 30	19 25.05	-32 27.1	1.544	2.542	5.6	20.1
7 10	19 13.75	-14 49.1	1.961	2.972	2.6	18.8	7 10	19 13.60	-32 44.6	1.530	2.537	4.2	20.0
7 20	19 4.54	-14 4.6	1.978	2.973	4.9	19.0	7 20	19 2.16	-32 47.3	1.542	2.531	6.9	20.2
7 30	18 56.36	-13 26.0	2.023	2.975	8.2	19.2	7 30	18 52.14	-32 35.2	1.580	2.524	10.7	20.4
8 9	18 49.93	-12 53.7	2.092	2.976	11.4	19.4	8 9	18 44.65	-32 11.0	1.640	2.517	14.4	20.6
512783	2016 <i>UV</i> ₇₀		7 9.2 231 ^o .10	4 ^o .5/ 7.4	18		314140	2005 <i>EP</i> ₁₉₇		7 9.2 69 ^o .20	1 ^o .0/ 8.9	17	
5 31	19 43.18	-34 14.2	2.416	3.229	12.5	22.1	5 31	19 45.76	-23 34.8	1.395	2.235	18.5	21.1
6 10	19 38.69	-35 3.1	2.328	3.223	10.1	21.9	6 10	19 41.53	-23 47.4	1.336	2.251	14.6	20.9
6 20	19 31.90	-35 49.8	2.263	3.216	7.5	21.8	6 20	19 34.17	-24 4.2	1.296	2.268	9.9	20.7
6 30	19 23.31	-36 29.6	2.223	3.210	5.2	21.6	6 30	19 24.46	-24 21.6	1.279	2.285	4.9	20.4
7 10	19 13.72	-36 58.4	2.209	3.203	4.6	21.6	7 10	19 13.67	-24 35.6	1.286	2.302	1.1	20.2
7 20	19 4.10	-37 13.4	2.224	3.196	6.3	21.6	7 20	19 3.24	-24 43.7	1.318	2.319	5.8	20.6
7 30	18 55.45	-37 14.0	2.264	3.189	8.9	21.8	7 30	18 54.55	-24 45.2	1.375	2.336	10.5	20.9
8 9	18 48.61	-37 2.0	2.328	3.182	11.5	22.0	8 9	18 48.56	-24 40.9	1.453	2.353	14.5	21.2
41915	2000 <i>WJ</i> ₁₅₂		7 9.2 134 ^o .00	5 ^o .4/ 10.6	18		75473	1999 <i>XY</i> ₁₆₄		7 9.2 132 ^o .30	2 ^o .1/ 8.6	18	
5 31	19 42.52	-10 8.8	1.568	2.378	18.2	18.8	5 31	19 46.24	-26 7.6	1.794	2.618	15.7	19.0
6 10	19 38.65	-9 38.6	1.492	2.382	14.9	18.6	6 10	19 41.44	-26 35.3	1.721	2.627	12.4	18.8
6 20	19 32.09	-9 21.7	1.435	2.385	11.2	18.4	6 20	19 33.92	-27 5.2	1.669	2.636	8.5	18.6
6 30	19 23.45	-9 19.8	1.400	2.389	7.5	18.2	6 30	19 24.32	-27 33.1	1.641	2.644	4.4	18.4
7 10	19 13.72	-9 32.7	1.390	2.392	5.4	18.0	7 10	19 13.68	-27 54.9	1.639	2.653	2.2	18.2
7 20	19 4.04	-9 58.7	1.404	2.395	7.1	18.2	7 20	19 3.19	-28 7.9	1.664	2.660	5.5	18.5
7 30	18 55.64	-10 34.8	1.443	2.398	10.7	18.4	7 30	18 54.06	-28 11.4	1.716	2.668	9.5	18.7
8 9	18 49.45	-11 17.2	1.505	2.401	14.3	18.6	8 9	18 47.20	-28 6.5	1.790	2.674	13.0	19.0
158025	2000 <i>RG</i> ₇₂		7 9.2 268 ^o .77	3 ^o .3/ 10.1	18		379267	2009 <i>UF</i> ₆₁		7 9.2 254 ^o .97	0 ^o .6/ 9.0	18	
5 31	19 41.83	-13 31.7	2.043	2.845	14.8	20.3	5 31	19 43.58	-22 0.4	1.916	2.736	15.0	22.3
6 10	19 37.80	-13 15.0	1.932	2.821	12.1	20.1	6 10	19 39.46	-22 23.0	1.814	2.719	11.9	22.1
6 20	19 31.45	-13 6.7	1.842	2.796	8.9	19.9	6 20	19 32.73	-22 51.7	1.734	2.701	8.3	21.8
6 30	19 23.18	-13 7.3	1.775	2.770	5.4	19.6	6 30	19 23.87	-23 23.4	1.677	2.683	4.1	21.5
7 10	19 13.73	-13 16.3	1.736	2.744	3.3	19.4	7 10	19 13.71	-23 54.9	1.648	2.664	0.7	21.2
7 20	19 4.02	-13 32.7	1.723	2.718	5.5	19.5	7 20	19 3.32	-24 22.7	1.645	2.645	5.0	21.5
7 30	18 55.10	-13 54.8	1.737	2.691	9.2	19.7	7 30	18 53.91	-24 44.8	1.669	2.626	9.4	21.7
8 9	18 47.90	-14 20.6	1.774	2.664	12.9	19.8	8 9	18 46.51	-25 0.5	1.717	2.606	13.3	21.9
380847	2006 <i>BX</i> ₂₂		7 9.2 192 ^o .35	6 ^o .0/ 7.8	18		293059	2006 <i>WB</i> ₁₄₇		7 9.2 97 ^o .99	3 ^o .9/ 7.5	18	
5 31	19 50.36	-38 57.6	2.200	3.001	13.9	21.7	5 31	19 42.12	-30 50.9	2.245	3.064	13.1	20.7
6 10	19 44.56	-39 31.9	2.118	3.000	11.4	21.5	6 10	19 37.88	-31 49.6	2.168	3.069	10.4	20.5
6 20	19 36.00	-39 59.5	2.056	2.998	8.8	21.3	6 20	19 31.35	-32 48.3	2.114	3.075	7.5	20.3
6 30	19 25.32	-40 14.6	2.020	2.996	6.6	21.2	6 30	19 23.04	-33 42.2	2.086	3.080	4.8	20.1
7 10	19 13.57	-40 12.8	2.009	2.993	6.0	21.2	7 10	19 13.79	-34 26.7	2.084	3.085	4.0	20.1
7 20	19 1.98	-39 52.2	2.026	2.990	7.5	21.3	7 20	19 4.55	-34 58.7	2.110	3.091	6.0	20.2
7 30	18 51.78	-39 14.2	2.069	2.986	10.0	21.4	7 30	18 56.33	-35 16.9	2.162	3.096	8.9	20.4
8 9	18 43.90	-38 22.7	2.135	2.982	12.7	21.6	8 9	18 49.96	-35 22.5	2.238	3.101	11.6	20.6
439725	2015 <i>DG</i> ₂₁₀		7 9.2 188 ^o .21	0 ^o .6/ 9.5	18		389396	2009 <i>XZ</i> ₇		7 9.2 156 ^o .46	2 ^o .3/ 7.9	18	
5 31	19 42.41	-17 47.6	2.114	2.923	14.1	21.5	5 31	19 45.33	-23 28.7	2.079	2.892	14.2	21.4
6 10	19 38.04	-18 19.9	2.026	2.923	11.2	21.3	6 10	19 40.55	-24 50.8	1.997	2.898	11.2	21.2
6 20	19 31.44	-19 0.8	1.958	2.922	7.8	21.0	6 20	19 33.31	-26 20.1	1.937	2.903	7.7	21.0
6 30	19 23.09	-19 47.9	1.917	2.920	3.9	20.8	6 30	19 24.08	-27 51.3	1.904	2.907	4.1	20.8
7 10	19 13.76	-20 38.0	1.902	2.919	0.6	20.5	7 10	19 13.71	-29 18.0	1.900	2.911	2.5	20.7
7 20	19 4.38	-21 27.5	1.916	2.916	4.3	20.8	7 20	19 3.22	-30 34.8	1.924	2.915	5.5	20.9
7 30	18 55.91	-22 13.7	1.957	2.914	8.2	21.1	7 30	18 53.72	-31 38.3	1.976	2.918	9.0	21.1
8 9	18 49.20	-22 54.8	2.024	2.911	11.6	21.3	8 9	18 46.15	-32 27.6	2.053	2.921	12.3	21.3
66761	1999 <i>TE</i> ₁₈₇		7 9.2 159 ^o .26	2 ^o .2/ 9.7	18		172887	2005 <i>ET</i> ₂₈₇		7 9.2 191 ^o .76	1 ^o .3/ 9.6	17	
5 31	19 43.53	-16 56.1	2.220	3.021	13.8	19.3	5 31	19 44.74	-18 33.4	1.699	2.519	16.6	21.2
6 10	19 38.59	-16 28.6	2.135	3.026	11.0	19.1	6 10	19 40.38	-18 31.9	1.615	2.518	13.2	21.0
6 20	19 31.59	-16 5.9	2.073	3.030	7.8	18.9	6 20	19 33.31	-18 37.6	1.552	2.517	9.2	20.8
6 30	19 23.06	-15 48.0	2.036	3.034	4.4	18.7	6 30	19 24.09	-18 49.1	1.512	2.516	4.8	20.5
7 10	19 13.78	-15 34.6	2.026	3.038	2.2	18.6	7 10	19 13.72	-19 4.1	1.498	2.514	1.3	20.3
7 20	19 4.58	-15 25.1	2.045	3.041	4.6	18.8	7 20	19 3.36	-19 20.3	1.511	2.511	5.2	20.5
7 30	18 56.37	-15 19.2	2.091	3.044	7.9	19.0	7 30	18 54.24	-19 35.9	1.549	2.508	9.6	20.8
8 9	18 49.84	-15 16.2	2.162	3.047	11.1	19.2	8 9	18 47.34	-19 50.0	1.610	2.505	13.6	21.0
314674	2006 <i>QS</i> ₉₉		7 9.2 30 ^o .85	0 ^o .3/ 9.2	17		395580	2011 <i>UX</i> ₂₅₉		7 9.2 281 ^o .40	1 ^o .1/ 8.8	18	
5 31	19 45.63	-24 14.5	1.253	2.102	19.7	19.9	5 31	19 40.34	-24 5.5	2.154	2.976	13.5	21.6
6 10	19 41.80	-23 34.9	1.188	2.108	15.6	19.6	6 10	19 36.45	-24 27.9	2.066	2.972	10.6	21.4
6 20	19 34.54	-22 55.6	1.141	2.115	10.8	19.4	6 20	19 30.36	-24 53.5	2.000	2.968	7.3	21.2
6 30	19 24.69	-22 15.1	1.115	2.122	5.3	19.1	6 30	19 22.57	-25 19.7	1.958	2.963	3.7	21.0
7 10	19 13.64	-21 33.0	1.113	2.130	0.6	18.8	7 10	19 13.85	-25 43.4	1.944	2.959	1.2	20.8
7 20	19 2.97	-20 50.0	1.136	2.138	6.1	19.2	7 20	19 5.12	-26 2.2	1.957	2.955	4.5	21.0
7 30	18 54.19	-20 7.9	1.182	2.147	11.3	19.5	7 30	18 57.34	-26 14.9	1.996	2.951	8.2	21.2
8 9	18 48.34	-19 28.9	1.248	2.157	15.8	19.8	8 9	18 51					

EPHEMERIDES

7 9.2

7 9.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
256794	2008 <i>CM</i> ₆₅		7 9.2 164°49	1.7/ 9.8	17		198157	2004 <i>TM</i> ₆₆		7 9.2 278°77	4.2/ 7.6	18	
5 31	19 44.67	-15 59.1	2.006	2.810	15.0	21.7	5 31	19 43.17	-29 25.4	1.778	2.610	15.5	20.0
6 10	19 39.81	-16 10.6	1.923	2.816	11.9	21.5	6 10	19 39.46	-30 26.0	1.695	2.604	12.4	19.8
6 20	19 32.63	-16 30.8	1.862	2.821	8.4	21.3	6 20	19 32.89	-31 29.2	1.632	2.598	8.8	19.5
6 30	19 23.67	-16 58.4	1.825	2.825	4.5	21.1	6 30	19 23.99	-32 28.9	1.593	2.591	5.4	19.3
7 10	19 13.77	-17 30.8	1.815	2.829	1.7	20.9	7 10	19 13.75	-33 18.9	1.580	2.585	4.3	19.2
7 20	19 3.89	-18 5.5	1.833	2.832	4.6	21.1	7 20	19 3.40	-33 54.7	1.593	2.579	7.0	19.4
7 30	18 55.06	-18 40.0	1.878	2.835	8.5	21.3	7 30	18 54.28	-34 14.4	1.631	2.573	10.6	19.6
8 9	18 48.10	-19 12.5	1.948	2.836	11.9	21.5	8 9	18 47.49	-34 19.1	1.692	2.567	14.1	19.8
80430	1999 <i>XC</i> ₂₂₇		7 9.2 191°36	0°0/ 9.2	17		298180	2002 <i>TR</i> ₁₆₉		7 9.2 343°78	6°8/ 7.3	18	
5 31	19 45.05	-21 30.7	1.921	2.737	15.1	21.4	5 31	19 41.54	-35 35.3	1.564	2.405	16.8	19.9
6 10	19 40.35	-21 40.9	1.834	2.736	11.9	21.2	6 10	19 38.72	-36 31.5	1.488	2.397	13.7	19.6
6 20	19 33.15	-21 56.0	1.769	2.735	8.2	21.0	6 20	19 32.64	-37 24.2	1.431	2.390	10.4	19.4
6 30	19 23.97	-22 13.4	1.728	2.733	4.1	20.7	6 30	19 23.93	-38 6.0	1.396	2.383	7.6	19.3
7 10	19 13.74	-22 30.6	1.714	2.730	0.4	20.4	7 10	19 13.76	-38 30.3	1.385	2.378	6.9	19.2
7 20	19 3.51	-22 45.1	1.727	2.727	4.8	20.8	7 20	19 3.61	-38 33.1	1.397	2.373	9.0	19.3
7 30	18 54.41	-22 55.6	1.767	2.723	8.9	21.0	7 30	18 55.02	-38 14.7	1.433	2.368	12.3	19.5
8 9	18 47.34	-23 2.0	1.831	2.719	12.6	21.2	8 9	18 49.18	-37 38.7	1.489	2.365	15.6	19.7
12899	1998 <i>RN</i> ₁₃		7 9.2 99°25	0°3/ 9.3	18		399094	2014 <i>DD</i> ₃₅		7 9.2 216°31	4°6/ 11.2	17	
5 31	19 44.55	-19 51.5	1.620	2.446	17.0	18.3	5 31	19 39.89	-7 6.3	2.287	3.064	14.1	21.3
6 10	19 40.21	-20 11.2	1.552	2.459	13.4	18.1	6 10	19 35.83	-7 3.7	2.192	3.058	11.7	21.1
6 20	19 33.13	-20 38.6	1.504	2.472	9.2	17.9	6 20	19 29.82	-7 13.8	2.117	3.052	9.0	21.0
6 30	19 23.95	-21 10.6	1.480	2.485	4.5	17.6	6 30	19 22.30	-7 37.5	2.066	3.045	6.3	20.8
7 10	19 13.75	-21 43.6	1.481	2.497	0.4	17.3	7 10	19 13.92	-8 13.9	2.042	3.038	4.7	20.7
7 20	19 3.72	-22 14.2	1.509	2.510	5.1	17.7	7 20	19 5.47	-9 1.3	2.045	3.031	5.7	20.7
7 30	18 55.08	-22 40.3	1.562	2.522	9.5	18.0	7 30	18 57.77	-9 56.6	2.076	3.023	8.4	20.9
8 9	18 48.77	-23 1.0	1.638	2.534	13.4	18.3	8 9	18 51.56	-10 56.5	2.131	3.015	11.3	21.0
522757	2016 <i>NF</i> ₇₅		7 9.2 354°22	0°3/ 9.3	17		125787	2001 <i>XY</i> ₁₅₀		7 9.2 93°68	3°4/ 9.9	18	
5 31	19 38.54	-21 46.9	1.304	2.159	18.7	20.2	5 31	19 44.84	-15 26.5	1.797	2.607	16.2	19.8
6 10	19 36.29	-21 38.0	1.230	2.154	14.9	19.9	6 10	19 39.97	-14 43.4	1.727	2.621	13.0	19.6
6 20	19 30.91	-21 34.3	1.175	2.150	10.3	19.7	6 20	19 32.70	-14 7.1	1.678	2.635	9.3	19.4
6 30	19 23.03	-21 34.1	1.140	2.147	5.1	19.4	6 30	19 23.66	-13 38.3	1.653	2.649	5.6	19.3
7 10	19 13.82	-21 34.8	1.129	2.145	0.5	19.0	7 10	19 13.82	-13 17.3	1.654	2.663	3.4	19.2
7 20	19 4.68	-21 34.6	1.141	2.144	5.9	19.4	7 20	19 4.22	-13 3.9	1.682	2.676	5.6	19.3
7 30	18 57.07	-21 32.4	1.176	2.144	11.0	19.7	7 30	18 55.88	-12 57.4	1.736	2.690	9.2	19.6
8 9	18 52.11	-21 28.0	1.232	2.146	15.5	20.0	8 9	18 49.60	-12 56.6	1.813	2.703	12.6	19.8
257859	2000 <i>QB</i> ₁₈₆		7 9.2 316°02	6°1/ 8.1	17		59573	1999 <i>JK</i> ₄₉		7 9.2 321°79	5°1/ 10.2	18	R
5 31	19 43.37	-32 46.8	1.224	2.081	19.6	20.0	5 31	19 39.56	-12 5.1	1.579	2.400	17.6	18.7
6 10	19 41.04	-33 25.0	1.144	2.065	15.9	19.7	6 10	19 36.46	-11 20.4	1.494	2.391	14.4	18.5
6 20	19 34.79	-34 1.3	1.080	2.050	11.7	19.4	6 20	19 30.73	-10 45.6	1.428	2.383	10.8	18.2
6 30	19 25.20	-34 28.0	1.037	2.035	7.7	19.2	6 30	19 22.88	-10 22.8	1.383	2.375	7.2	18.0
7 10	19 13.62	-34 37.3	1.016	2.021	6.2	19.0	7 10	19 13.87	-10 13.0	1.363	2.367	5.1	17.9
7 20	19 1.92	-34 24.5	1.018	2.008	9.2	19.2	7 20	19 4.81	-10 15.9	1.367	2.359	7.0	18.0
7 30	18 52.11	-33 50.3	1.041	1.995	13.9	19.4	7 30	18 56.91	-10 30.0	1.396	2.352	10.8	18.2
8 9	18 45.69	-32 59.6	1.083	1.983	18.4	19.6	8 9	18 51.15	-10 52.5	1.446	2.346	14.6	18.4
169871	2002 <i>RQ</i> ₉₈		7 9.2 337°60	9°0/ 6.5	18		470298	2007 <i>GU</i> ₃₇		7 9.2 353°25	10°4/ 5.3	16	
5 31	19 42.62	-40 5.0	1.549	2.384	17.2	19.0	5 31	19 44.15	-40 46.0	1.450	2.287	18.1	20.6
6 10	19 39.93	-41 17.1	1.472	2.373	14.4	18.8	6 10	19 41.52	-42 34.2	1.384	2.283	15.3	20.4
6 20	19 33.70	-42 23.0	1.415	2.362	11.6	18.6	6 20	19 35.04	-44 16.6	1.338	2.280	12.6	20.3
6 30	19 24.53	-43 13.5	1.380	2.352	9.5	18.5	6 30	19 25.30	-45 42.0	1.314	2.278	10.7	20.2
7 10	19 13.68	-43 40.8	1.367	2.343	9.1	18.4	7 10	19 13.66	-46 40.2	1.311	2.276	10.7	20.1
7 20	19 2.82	-43 40.4	1.377	2.334	10.9	18.5	7 20	19 1.97	-47 5.5	1.331	2.275	12.4	20.2
7 30	18 53.67	-43 12.9	1.409	2.327	13.8	18.7	7 30	18 52.19	-46 58.2	1.372	2.275	15.1	20.4
8 9	18 47.55	-42 23.3	1.460	2.320	16.8	18.8	8 9	18 45.77	-46 24.0	1.432	2.275	17.9	20.6
301913	1999 <i>FC</i> ₇₃		7 9.2 324°43	2°5/ 8.5	18		126881	2002 <i>EH</i> ₉₆		7 9.2 210°84	1°0/ 9.6	18	
5 31	19 39.17	-26 51.4	1.718	2.559	15.6	20.5	5 31	19 42.29	-18 17.9	2.077	2.889	14.3	20.8
6 10	19 36.31	-27 19.0	1.627	2.543	12.4	20.2	6 10	19 38.00	-18 26.7	1.986	2.884	11.4	20.6
6 20	19 30.73	-27 49.2	1.556	2.527	8.7	20.0	6 20	19 31.45	-18 42.2	1.916	2.879	7.9	20.4
6 30	19 22.93	-28 18.2	1.508	2.512	4.7	19.7	6 30	19 23.14	-19 2.9	1.871	2.874	4.1	20.1
7 10	19 13.83	-28 41.5	1.485	2.498	2.6	19.5	7 10	19 13.86	-19 26.8	1.853	2.869	1.0	19.9
7 20	19 4.61	-28 55.9	1.488	2.484	5.9	19.7	7 20	19 4.53	-19 51.4	1.862	2.863	4.4	20.1
7 30	18 56.55	-29 0.0	1.515	2.471	10.1	19.9	7 30	18 56.15	-20 14.9	1.899	2.856	8.3	20.3
8 9	18 50.71	-28 54.5	1.564	2.459	14.0	20.1	8 9	18 49.54	-20 36.1	1.960	2.850	11.8	20.6
163341	2002 <i>LP</i> ₃₂		7 9.2 346°15	8°3/ 10.8	16		101945	1999 <i>RP</i> ₂₅		7 9.2 214°97	6°4/ 5.8	18	
5 31	19 35.09	-7 6.5	1.385	2.210	19.4	19.0	5 31	19 50.01	-48 55.8	3.635	4.386	9.8	21.1
6 10	19 33.23	-5 57.1	1.307	2.199	16.4	18.8	6 10	19 43.58	-49 43.6	3.545	4.375	8.5	20.9
6 20	19 28.65	-5 1.8	1.245	2.190	13.1	18.5	6 20	19 35.02	-50 23.2	3.478	4.364	7.3	20.8
6 30	19 21.90	-4 25.4	1.204	2.181	9.9	18.3	6 30	19 24.81	-50 50.2	3.436	4.352	6.5	20.8
7 10	19 13.92	-4 10.8	1.185	2.174	8.3	18.2	7 10	19 13.73	-51 1.3	3.421	4.340	6.5	20.8
7 20	19 5.90	-4 18.7	1.188	2.168	9.5	18.3	7 20	19 2.65	-50 54.9	3.432	4.327	7.2	20.8
7 30	18 59.09	-4 46.9	1.213	2.164	12.6	18.4	7 30	18 52.50	-50 31.4	3.469	4.313	8.4	20.9
8 9	18 54.51	-5 30.4	1.258	2.160	16.1	18.6	8 9	18 44.05	-49 53.4	3.530	4.298	9.7	20.9
20750	2000 <i>AF</i> ₁₉₉		7 9.2 320°71	2°5/ 7.9	18		314441	2005 <i>VO</i> ₁₅					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
250522	2004 <i>PQ</i> ₂₀		7 9.2 268°91	5°1/11.4 18			313995	2004 <i>TV</i> ₂₁₀		7 9.2 268°86	3°9/10.1 17		
5 31	19 37.32	-5 25.4	2.496	3.267	13.3	20.8	5 31	19 42.65	-14 8.0	1.471	2.297	18.4	20.9
6 10	19 33.70	-5 12.8	2.392	3.251	11.1	20.6	6 10	19 39.29	-13 44.9	1.381	2.283	15.0	20.6
6 20	19 28.32	-5 12.2	2.308	3.235	8.7	20.5	6 20	19 32.95	-13 32.4	1.308	2.270	11.0	20.3
6 30	19 21.55	-5 25.0	2.249	3.220	6.4	20.3	6 30	19 24.12	-13 31.5	1.258	2.256	6.6	20.1
7 10	19 14.00	-5 51.1	2.215	3.204	5.1	20.2	7 10	19 13.82	-13 41.5	1.231	2.242	3.9	19.9
7 20	19 6.32	-6 29.5	2.209	3.187	5.9	20.2	7 20	19 3.31	-14 0.9	1.229	2.227	6.6	20.0
7 30	18 59.27	-7 17.8	2.230	3.171	8.2	20.3	7 30	18 54.04	-14 27.2	1.252	2.213	11.2	20.2
8 9	18 53.52	-8 12.9	2.275	3.155	10.8	20.5	8 9	18 47.17	-14 57.6	1.295	2.199	15.7	20.4
342857	2008 <i>YN</i> ₁₇		7 9.2 175°69	0°7/ 9.6 18			361116	2006 <i>EE</i> ₄₀		7 9.2 347°39	0°7/ 9.1 17		
5 31	19 41.43	-16 23.7	2.234	3.039	13.6	21.5	5 31	19 42.02	-23 35.7	1.194	2.051	19.9	20.3
6 10	19 37.16	-17 9.5	2.146	3.040	10.8	21.4	6 10	19 39.44	-23 33.8	1.122	2.047	15.9	20.1
6 20	19 30.80	-18 5.0	2.080	3.041	7.5	21.1	6 20	19 33.32	-23 36.2	1.067	2.043	11.0	19.8
6 30	19 22.81	-19 7.9	2.039	3.042	3.8	20.9	6 30	19 24.34	-23 39.8	1.033	2.040	5.4	19.5
7 10	19 13.89	-20 14.6	2.026	3.042	0.7	20.7	7 10	19 13.81	-23 41.3	1.022	2.038	0.9	19.1
7 20	19 4.91	-21 21.1	2.042	3.042	4.1	20.9	7 20	19 3.36	-23 38.0	1.033	2.036	6.5	19.5
7 30	18 56.76	-22 23.9	2.086	3.042	7.8	21.2	7 30	18 54.67	-23 29.3	1.067	2.035	11.9	19.8
8 9	18 50.23	-23 20.8	2.156	3.042	11.0	21.4	8 9	18 49.00	-23 16.4	1.121	2.035	16.8	20.1
384663	2011 <i>FP</i> ₂₈		7 9.2 289°15	16°5/ 2.5 18			166486	2002 <i>PM</i> ₁₅₀		7 9.3 275°31	0°6/ 9.4 18		
5 31	20 7.07	-61 45.4	1.782	2.516	19.0	20.1	5 31	19 41.04	-20 14.4	1.959	2.780	14.6	20.7
6 10	20 2.07	-63 32.3	1.716	2.501	17.9	20.0	6 10	19 37.22	-20 15.4	1.867	2.771	11.6	20.5
6 20	19 50.69	-65 0.7	1.666	2.485	17.0	19.9	6 20	19 31.04	-20 21.5	1.795	2.761	8.1	20.2
6 30	19 33.52	-65 56.7	1.633	2.470	16.5	19.8	6 30	19 23.00	-20 31.3	1.747	2.752	4.1	20.0
7 10	19 12.97	-66 8.6	1.618	2.454	16.7	19.8	7 10	19 13.93	-20 42.8	1.726	2.742	0.7	19.7
7 20	18 52.76	-65 31.4	1.621	2.438	17.5	19.8	7 20	19 4.79	-20 53.9	1.731	2.733	4.6	20.0
7 30	18 36.54	-64 9.0	1.642	2.423	18.7	19.9	7 30	18 56.64	-21 3.5	1.763	2.723	8.7	20.2
8 9	18 26.36	-62 12.6	1.679	2.408	20.2	19.9	8 9	18 50.37	-21 10.9	1.819	2.713	12.3	20.4
511693	2015 <i>BB</i> ₅₃₇		7 9.2	5°63 6°5/11.4 17			371879	2008 <i>CR</i> ₄₀		7 9.3 71°07	4°9/10.7 17		
5 31	19 35.33	-7 32.8	1.369	2.195	19.5	20.3	5 31	19 41.39	-10 31.4	1.526	2.341	18.3	20.9
6 10	19 33.39	-7 11.1	1.298	2.195	16.2	20.0	6 10	19 37.85	-10 13.4	1.454	2.348	15.0	20.7
6 20	19 28.72	-7 7.9	1.245	2.196	12.5	19.8	6 20	19 31.61	-10 9.8	1.401	2.354	11.1	20.5
6 30	19 21.92	-7 25.5	1.213	2.198	8.7	19.6	6 30	19 23.30	-10 21.5	1.369	2.360	7.2	20.3
7 10	19 13.98	-8 3.3	1.202	2.202	6.5	19.5	7 10	19 13.91	-10 47.5	1.362	2.367	4.9	20.2
7 20	19 6.08	-8 58.4	1.215	2.206	7.8	19.6	7 20	19 4.61	-11 25.2	1.379	2.373	6.7	20.3
7 30	18 59.45	-10 5.5	1.250	2.211	11.3	19.8	7 30	18 56.60	-12 11.1	1.421	2.380	10.4	20.5
8 9	18 55.09	-11 18.5	1.307	2.218	15.0	20.0	8 9	18 50.82	-13 0.9	1.486	2.386	14.2	20.8
47448	1999 <i>XN</i> ₂₁₄		7 9.2 202°98	1°8/ 8.7 18			382336	2013 <i>TV</i> ₃₂		7 9.3 296°00	0°0/ 9.1 18		
5 31	19 45.88	-25 14.4	1.886	2.707	15.1	20.3	5 31	19 41.42	-21 24.8	1.517	2.356	17.3	21.5
6 10	19 41.21	-25 40.8	1.799	2.704	12.0	20.1	6 10	19 38.47	-21 33.0	1.420	2.335	13.9	21.2
6 20	19 33.87	-26 10.2	1.733	2.700	8.3	19.8	6 20	19 32.50	-21 47.8	1.343	2.314	9.7	20.9
6 30	19 24.41	-26 39.1	1.691	2.695	4.3	19.6	6 30	19 23.96	-22 7.1	1.287	2.294	4.8	20.6
7 10	19 13.78	-27 3.4	1.676	2.690	1.9	19.4	7 10	19 13.84	-22 27.5	1.256	2.273	0.4	20.2
7 20	19 3.12	-27 20.1	1.688	2.685	5.3	19.6	7 20	19 3.44	-22 45.7	1.250	2.252	5.8	20.5
7 30	18 53.63	-27 28.0	1.726	2.679	9.4	19.8	7 30	18 54.22	-22 59.7	1.268	2.232	10.9	20.7
8 9	18 46.30	-27 27.9	1.788	2.672	13.1	20.1	8 9	18 47.44	-23 8.8	1.308	2.211	15.5	21.0
312015	2007 <i>RL</i> ₂₉		7 9.2 263°93	6°8/10.6 18			19927	1980 <i>FM</i> ₄		7 9.3 285°60	3°9/ 8.0 18		
5 31	19 42.18	-8 47.9	1.514	2.323	18.7	20.7	5 31	19 42.56	-32 56.7	2.275	3.093	13.0	18.6
6 10	19 38.72	-7 57.2	1.425	2.312	15.7	20.4	6 10	19 38.30	-33 25.0	2.185	3.084	10.4	18.4
6 20	19 32.42	-7 19.1	1.355	2.300	12.1	20.2	6 20	19 31.70	-33 50.7	2.116	3.075	7.6	18.2
6 30	19 23.80	-6 56.9	1.306	2.289	8.7	20.0	6 30	19 23.30	-34 9.8	2.073	3.066	4.9	18.0
7 10	19 13.83	-6 52.4	1.281	2.277	6.8	19.8	7 10	19 13.92	-34 18.7	2.055	3.057	4.0	18.0
7 20	19 3.70	-7 5.5	1.279	2.265	8.4	19.9	7 20	19 4.54	-34 15.5	2.065	3.048	5.9	18.1
7 30	18 54.74	-7 34.1	1.302	2.252	11.9	20.1	7 30	18 56.19	-33 59.9	2.102	3.039	8.8	18.2
8 9	18 48.05	-8 14.2	1.346	2.240	15.8	20.3	8 9	18 49.71	-33 34.0	2.162	3.030	11.7	18.4
377617	2005 <i>SS</i> ₇₈		7 9.2 340°53	1°3/ 9.6 17			273395	2006 <i>VF</i> ₁₀₁		7 9.3 261°58	0°0/ 9.1 18		
5 31	19 35.82	-18 42.0	1.208	2.069	19.5	21.1	5 31	19 43.37	-20 25.1	1.737	2.562	16.1	21.7
6 10	19 34.48	-18 43.1	1.129	2.056	15.7	20.8	6 10	19 39.58	-20 45.5	1.638	2.545	12.9	21.5
6 20	19 29.93	-18 54.5	1.068	2.044	11.0	20.5	6 20	19 33.01	-21 13.6	1.560	2.528	8.9	21.2
6 30	19 22.70	-19 15.1	1.027	2.033	5.7	20.2	6 30	19 24.13	-21 47.1	1.505	2.510	4.5	20.9
7 10	19 13.92	-19 41.9	1.008	2.024	1.3	19.8	7 10	19 13.84	-22 22.3	1.476	2.492	0.4	20.5
7 20	19 5.03	-20 11.2	1.012	2.016	6.2	20.1	7 20	19 3.29	-22 55.6	1.473	2.474	5.3	20.8
7 30	18 57.60	-20 39.7	1.037	2.009	11.7	20.4	7 30	18 53.80	-23 24.3	1.496	2.455	10.0	21.1
8 9	18 52.90	-21 5.0	1.083	2.003	16.6	20.7	8 9	18 46.47	-23 47.2	1.542	2.436	14.2	21.3
74251	1998 <i>SV</i> ₆₆		7 9.2	1°48 1°0/ 8.9 18			44580	1999 <i>GY</i> ₂₅		7 9.3 40°89	3°3/ 8.4 17		
5 31	19 40.26	-22 29.3	1.750	2.583	15.6	19.1	5 31	19 43.53	-28 12.6	1.547	2.387	17.0	19.1
6 10	19 36.89	-23 0.9	1.671	2.583	12.3	18.9	6 10	19 39.86	-28 47.7	1.478	2.393	13.5	18.9
6 20	19 30.95	-23 38.6	1.612	2.582	8.5	18.7	6 20	19 33.16	-29 24.0	1.429	2.399	9.4	18.7
6 30	19 22.98	-24 18.9	1.577	2.582	4.2	18.4	6 30	19 24.10	-29 56.3	1.403	2.405	5.3	18.5
7 10	19 13.91	-24 57.8	1.567	2.583	1.1	18.2	7 10	19 13.85	-30 19.6	1.401	2.412	3.4	18.4
7 20	19 4.85	-25 31.8	1.584	2.583	5.1	18.5	7 20	19 3.76	-30 30.7	1.424	2.418	6.5	18.6
7 30	18 56.95	-25 58.5	1.626	2.584	9.3	18.7	7 30	18 55.20	-30 29.0	1.472	2.425	10.6	18.8
8 9	18 51.15	-26 17.4	1.691	2.586	13.1	19.0	8 9	18 49.20	-30 16.5	1.542	2.433	14.4	19.1
365442	2010 <i>MF</i> ₄₈		7 9.2 336°68	1°5/ 9.5 18			250096	2002 <i>GK</i> ₉₈		7 9.			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
215543	2002 <i>XD</i>		7 9.3 236°79	11.5/ 2.7	18		310606	2001 <i>XH</i> ₁₆₈		7 9.3 206°97	0.7/ 9.5	17	
5 31	19 53.34	-33 7.0	1.189	2.033	20.8	19.6	5 31	19 45.38	-18 36.6	1.717	2.535	16.5	21.7
6 10	19 50.25	-36 35.2	1.117	2.026	17.3	19.4	6 10	19 41.01	-18 54.7	1.629	2.531	13.2	21.4
6 20	19 42.33	-40 17.7	1.065	2.019	13.7	19.2	6 20	19 33.88	-19 21.6	1.561	2.526	9.2	21.2
6 30	19 29.64	-43 54.9	1.037	2.011	11.6	19.0	6 30	19 24.51	-19 55.1	1.517	2.521	4.7	20.9
7 10	19 13.33	-47 3.6	1.034	2.003	12.3	19.0	7 10	19 13.86	-20 31.7	1.498	2.515	0.8	20.6
7 20	18 55.69	-49 25.7	1.055	1.995	15.4	19.2	7 20	19 3.11	-21 7.9	1.507	2.508	5.2	20.9
7 30	18 39.80	-50 55.3	1.097	1.986	19.2	19.4	7 30	18 53.53	-21 41.0	1.542	2.501	9.7	21.2
8 9	18 28.32	-51 38.8	1.156	1.977	22.7	19.6	8 9	18 46.18	-22 9.4	1.600	2.493	13.8	21.4
422636	3375 <i>T</i> ₋₃		7 9.3 307°80	2°8/ 8.6	18		5395	Shosasaki		7 9.3 287°41	4°1/ 10.4	18	
5 31	19 40.64	-25 55.2	1.227	2.086	19.4	21.1	5 31	19 40.64	-11 49.5	1.795	2.603	16.3	19.2
6 10	19 38.87	-26 21.7	1.131	2.058	15.6	20.8	6 10	19 37.32	-11 35.8	1.684	2.575	13.4	19.0
6 20	19 33.43	-26 54.0	1.054	2.030	11.0	20.4	6 20	19 31.45	-11 33.5	1.592	2.546	10.0	18.7
6 30	19 24.70	-27 27.2	0.996	2.002	5.9	20.1	6 30	19 23.40	-11 43.7	1.524	2.517	6.4	18.4
7 10	19 13.78	-27 55.0	0.961	1.975	3.0	19.8	7 10	19 13.95	-12 6.3	1.480	2.487	4.1	18.2
7 20	19 2.31	-28 12.0	0.948	1.948	7.6	20.0	7 20	19 4.13	-12 39.4	1.462	2.457	6.2	18.3
7 30	18 52.27	-28 15.4	0.958	1.922	13.4	20.2	7 30	18 55.12	-13 20.6	1.470	2.427	10.2	18.4
8 9	18 45.35	-28 6.4	0.986	1.897	18.7	20.4	8 9	18 48.01	-14 6.6	1.500	2.397	14.3	18.6
481855	2008 <i>XR</i> ₃₆		7 9.3 9°22	3°6/ 9.7	17		358875	2008 <i>FR</i> ₁₂₆		7 9.3 66°12	5°0/ 11.2	16	
5 31	19 42.18	-16 27.0	1.674	2.496	16.7	20.5	5 31	19 37.73	-7 5.2	2.288	3.070	14.0	21.2
6 10	19 38.26	-15 33.8	1.595	2.496	13.4	20.3	6 10	19 34.04	-6 41.6	2.208	3.076	11.6	21.1
6 20	19 31.77	-14 45.9	1.536	2.497	9.7	20.1	6 20	19 28.53	-6 29.5	2.148	3.082	8.9	20.9
6 30	19 23.34	-14 4.6	1.501	2.499	5.8	19.8	6 30	19 21.67	-6 30.1	2.112	3.088	6.4	20.8
7 10	19 13.93	-13 30.7	1.491	2.501	3.6	19.7	7 10	19 14.13	-6 43.3	2.102	3.093	5.1	20.7
7 20	19 4.64	-13 4.8	1.507	2.503	6.0	19.9	7 20	19 6.64	-7 8.0	2.119	3.100	5.9	20.8
7 30	18 56.60	-12 47.1	1.548	2.505	9.8	20.1	7 30	18 59.95	-7 42.0	2.162	3.106	8.3	20.9
8 9	18 50.69	-12 36.6	1.612	2.508	13.5	20.3	8 9	18 54.71	-8 22.5	2.229	3.112	10.9	21.1
32487	2000 <i>TM</i> ₆₁		7 9.3 256°91	0°2/ 9.3	18		428330	2007 <i>HP</i> ₇₃		7 9.3 40°98	5°1/ 10.6	17	
5 31	19 39.54	-19 5.0	2.378	3.188	12.7	18.7	5 31	19 40.57	-10 37.5	1.687	2.497	17.1	21.3
6 10	19 35.67	-19 38.3	2.279	3.177	10.1	18.5	6 10	19 36.97	-10 2.6	1.611	2.500	14.0	21.1
6 20	19 29.80	-20 18.8	2.202	3.166	7.0	18.3	6 20	19 30.91	-9 39.4	1.553	2.503	10.5	20.9
6 30	19 22.36	-21 4.4	2.151	3.155	3.5	18.1	6 30	19 22.96	-9 29.5	1.518	2.506	7.1	20.7
7 10	19 14.00	-21 52.0	2.127	3.144	0.3	17.8	7 10	19 14.04	-9 33.0	1.508	2.510	5.1	20.6
7 20	19 5.52	-22 38.8	2.132	3.132	4.0	18.1	7 20	19 5.17	-9 48.9	1.523	2.513	6.7	20.7
7 30	18 57.77	-23 22.1	2.165	3.121	7.5	18.3	7 30	18 57.46	-10 14.9	1.563	2.517	10.0	20.9
8 9	18 51.52	-24 0.4	2.223	3.109	10.7	18.5	8 9	18 51.76	-10 47.7	1.625	2.521	13.5	21.1
342007	2008 <i>RQ</i> ₄₂		7 9.3 314°99	0°2/ 9.2	18		507084	2009 <i>BN</i> ₁₇₃		7 9.3 182°88	3°0/ 7.9	18	
5 31	19 38.78	-21 30.8	1.473	2.319	17.4	21.0	5 31	19 45.04	-31 28.1	2.937	3.736	10.8	23.6
6 10	19 36.49	-21 41.4	1.376	2.295	13.9	20.7	6 10	19 39.60	-32 4.8	2.848	3.737	8.6	23.4
6 20	19 31.20	-21 59.0	1.298	2.272	9.7	20.4	6 20	19 32.28	-32 40.2	2.782	3.737	6.2	23.3
6 30	19 23.36	-22 21.5	1.242	2.249	4.9	20.0	6 30	19 23.52	-33 10.9	2.743	3.737	3.9	23.1
7 10	19 13.92	-22 45.4	1.210	2.227	0.5	19.6	7 10	19 14.00	-33 33.8	2.733	3.735	3.1	23.1
7 20	19 4.19	-23 7.3	1.202	2.205	5.8	20.0	7 20	19 4.47	-33 47.1	2.752	3.733	4.7	23.2
7 30	18 55.63	-23 24.6	1.218	2.184	11.0	20.2	7 30	18 55.75	-33 50.2	2.800	3.730	7.2	23.3
8 9	18 49.51	-23 36.5	1.255	2.164	15.7	20.4	8 9	18 48.50	-33 44.1	2.873	3.727	9.6	23.5
467364	2003 <i>UZ</i> ₂₇₇		7 9.3 324°98	3°8/ 9.8	18		385073	2012 <i>UA</i> ₈₁		7 9.3 111°60	0°6/ 9.4	17	
5 31	19 39.69	-16 42.0	1.243	2.092	19.8	20.5	5 31	19 41.74	-20 2.2	1.957	2.777	14.7	21.6
6 10	19 37.42	-15 57.5	1.162	2.079	16.1	20.2	6 10	19 37.65	-20 4.3	1.876	2.780	11.7	21.4
6 20	19 31.89	-15 20.4	1.097	2.066	11.6	19.9	6 20	19 31.26	-20 11.7	1.817	2.783	8.0	21.2
6 30	19 23.67	-14 51.9	1.053	2.054	6.8	19.6	6 30	19 23.10	-20 22.8	1.782	2.786	4.0	20.9
7 10	19 13.91	-14 32.7	1.031	2.043	3.8	19.4	7 10	19 14.04	-20 35.5	1.773	2.789	0.7	20.7
7 20	19 4.04	-14 22.8	1.033	2.033	7.1	19.5	7 20	19 5.04	-20 47.9	1.791	2.792	4.5	21.0
7 30	18 55.64	-14 21.3	1.056	2.023	12.1	19.8	7 30	18 57.12	-20 58.6	1.836	2.795	8.4	21.2
8 9	18 49.97	-14 26.5	1.099	2.014	16.9	20.0	8 9	18 51.08	-21 7.1	1.904	2.798	11.9	21.5
7042	Carver		7 9.3 47°91	0°9/ 9.4	18		444354	2005 <i>WK</i> ₁₉₈		7 9.3 252°56	2°3/ 9.9	18	
5 31	19 45.06	-20 27.8	1.103	1.958	21.4	16.8	5 31	19 39.70	-15 33.3	2.535	3.333	12.3	21.5
6 10	19 41.45	-20 18.1	1.058	1.980	16.8	16.6	6 10	19 35.55	-15 13.8	2.434	3.322	9.9	21.3
6 20	19 34.31	-20 16.3	1.029	2.004	11.5	16.4	6 20	19 29.59	-14 59.7	2.354	3.310	7.1	21.1
6 30	19 24.61	-20 19.9	1.021	2.027	5.7	16.1	6 30	19 22.23	-14 50.9	2.300	3.297	4.2	20.9
7 10	19 13.86	-20 25.9	1.035	2.052	1.0	15.9	7 10	19 14.11	-14 47.0	2.274	3.285	2.3	20.7
7 20	19 3.69	-20 31.9	1.073	2.077	6.2	16.3	7 20	19 5.94	-14 47.5	2.276	3.272	4.2	20.8
7 30	18 55.59	-20 36.5	1.134	2.102	11.4	16.7	7 30	18 58.48	-14 51.5	2.305	3.259	7.3	21.0
8 9	18 50.54	-20 39.4	1.215	2.127	15.8	17.0	8 9	18 52.40	-14 58.1	2.360	3.246	10.2	21.2
474315	2002 <i>AT</i> ₁₇₂		7 9.3 139°24	3°2/ 8.5	18		385572	2004 <i>VS</i> ₁		7 9.3 237°64	6°1/ 6.6	17	
5 31	19 47.11	-34 10.9	2.795	3.592	11.4	22.5	5 31	19 46.23	-34 59.6	2.029	2.846	14.4	21.0
6 10	19 41.10	-34 15.8	2.716	3.603	9.1	22.4	6 10	19 41.83	-36 17.8	1.942	2.837	11.7	20.8
6 20	19 33.16	-34 16.1	2.661	3.613	6.6	22.2	6 20	19 34.58	-37 35.3	1.877	2.828	8.9	20.6
6 30	19 23.84	-34 9.0	2.631	3.623	4.2	22.1	6 30	19 24.94	-38 45.0	1.836	2.818	6.6	20.5
7 10	19 13.93	-33 52.4	2.631	3.632	3.2	22.0	7 10	19 13.89	-39 40.2	1.822	2.808	6.2	20.4
7 20	19 4.23	-33 25.8	2.659	3.641	4.8	22.1	7 20	19 2.63	-40 16.3	1.834	2.798	8.1	20.5
7 30	18 55.57	-32 50.2	2.716	3.650	7.2	22.3	7 30	18 52.51	-40 31.7	1.871	2.787	11.0	20.7
8 9	18 48.57	-32 7.7	2.799	3.658	9.6	22.5	8 9	18 44.67	-40 28.8	1.930	2.776	13.9	20.8
34617	2000 <i>UU</i> ₄₈		7 9.3 23°35	4°4/ 7.5	18		519700	2013 <i>AM</i> ₁₈₇		7 9.3 44°19	0°1/ 9.2	17	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
483111	2015 <i>MC</i> ₁₂₁		7 9.3 318°30	2°2/ 9.0	18		480756	2016 <i>NQ</i> ₄₃		7 9.3 62°49	2°4/10.1	17	
5 31	19 46.53	-30 44.0	2.223	3.035	13.4	20.5	5 31	19 41.17	-14 35.0	1.649	2.470	17.0	21.4
6 10	19 41.20	-30 23.4	2.134	3.031	10.7	20.3	6 10	19 37.50	-14 44.0	1.581	2.482	13.6	21.3
6 20	19 33.55	-29 58.4	2.066	3.028	7.5	20.1	6 20	19 31.30	-15 4.6	1.532	2.494	9.6	21.0
6 30	19 24.18	-29 26.5	2.024	3.025	4.1	19.9	6 30	19 23.18	-15 35.5	1.506	2.506	5.4	20.8
7 10	19 14.00	-28 46.3	2.010	3.022	2.2	19.8	7 10	19 14.10	-16 14.0	1.505	2.518	2.4	20.7
7 20	19 4.00	-27 58.0	2.024	3.019	4.8	19.9	7 20	19 5.16	-16 56.7	1.530	2.531	5.2	20.9
7 30	18 55.17	-27 3.3	2.065	3.016	8.2	20.1	7 30	18 57.45	-17 40.4	1.581	2.543	9.3	21.1
8 9	18 48.30	-26 5.2	2.132	3.013	11.4	20.3	8 9	18 51.85	-18 22.2	1.655	2.556	13.0	21.4
395937	2013 <i>AY</i> ₁₀₉		7 9.3 126°43	4°3/11.5	17		336858	2011 <i>FB</i> ₉₇		7 9.3 348°18	4°9/10.5	17	
5 31	19 38.55	- 6 27.3	2.486	3.258	13.3	21.2	5 31	19 38.54	-12 0.9	1.474	2.302	18.3	20.4
6 10	19 34.55	- 6 33.6	2.402	3.265	11.0	21.1	6 10	19 35.85	-11 27.3	1.396	2.297	15.0	20.2
6 20	19 28.84	- 6 52.4	2.340	3.272	8.4	20.9	6 20	19 30.44	-11 5.8	1.336	2.293	11.1	19.9
6 30	19 21.84	- 7 24.0	2.302	3.279	5.8	20.8	6 30	19 22.87	-10 57.9	1.297	2.290	7.2	19.7
7 10	19 14.18	- 8 7.1	2.291	3.286	4.3	20.7	7 10	19 14.12	-11 3.9	1.282	2.287	5.0	19.6
7 20	19 6.54	- 8 59.7	2.308	3.293	5.2	20.7	7 20	19 5.37	-11 22.4	1.290	2.285	6.9	19.7
7 30	18 59.64	- 9 58.8	2.352	3.299	7.5	20.9	7 30	18 57.85	-11 50.8	1.323	2.284	10.8	19.9
8 9	18 54.08	-11 1.0	2.422	3.306	10.1	21.1	8 9	18 52.58	-12 25.7	1.377	2.283	14.7	20.1
438119	2005 <i>OU</i> ₂₅		7 9.3 336°80	17°4/19.0	17		238717	2005 <i>GO</i> ₄₇		7 9.3 106°28	4°9/10.9	17	
5 31	19 38.06	+12 44.4	0.989	1.758	29.0	20.5	5 31	19 40.00	- 8 46.8	2.057	2.848	15.1	20.6
6 10	19 36.71	+13 24.2	0.923	1.753	26.6	20.2	6 10	19 36.04	- 8 22.8	1.978	2.854	12.4	20.4
6 20	19 31.79	+13 18.9	0.867	1.749	23.7	20.0	6 20	19 30.04	- 8 10.3	1.920	2.861	9.4	20.2
6 30	19 23.82	+12 16.4	0.823	1.745	20.7	19.8	6 30	19 22.49	- 8 10.4	1.885	2.867	6.5	20.1
7 10	19 14.01	+10 10.4	0.796	1.741	18.2	19.7	7 10	19 14.16	- 8 23.1	1.876	2.873	4.9	20.0
7 20	19 3.95	+ 7 3.6	0.786	1.739	17.4	19.6	7 20	19 5.89	- 8 46.8	1.893	2.879	6.0	20.1
7 30	18 55.49	+ 3 10.0	0.796	1.736	18.7	19.7	7 30	18 58.55	- 9 19.5	1.937	2.885	8.8	20.2
8 9	18 50.11	- 1 7.3	0.825	1.735	21.5	19.8	8 9	18 52.87	- 9 58.0	2.004	2.891	11.7	20.4
369909	2013 <i>BW</i> ₂₅		7 9.3 15°13	3°3/10.8	18		328113	2008 <i>AS</i> ₆₅		7 9.3 228°62	0°8/ 9.5	17	
5 31	19 37.14	-10 47.8	1.937	2.744	15.3	20.1	5 31	19 43.57	-18 9.0	1.703	2.525	16.5	21.3
6 10	19 34.04	-11 5.0	1.857	2.747	12.4	19.9	6 10	19 39.65	-18 30.8	1.615	2.519	13.2	21.0
6 20	19 28.80	-11 35.8	1.797	2.750	9.1	19.7	6 20	19 33.02	-19 2.3	1.546	2.512	9.2	20.8
6 30	19 21.93	-12 19.4	1.760	2.754	5.6	19.5	6 30	19 24.16	-19 41.3	1.500	2.504	4.7	20.5
7 10	19 14.18	-13 13.7	1.750	2.758	3.3	19.3	7 10	19 14.02	-20 24.2	1.481	2.497	0.8	20.2
7 20	19 6.43	-14 15.2	1.766	2.763	5.1	19.5	7 20	19 3.74	-21 7.3	1.488	2.489	5.2	20.5
7 30	18 59.61	-15 20.1	1.808	2.768	8.5	19.7	7 30	18 54.60	-21 47.2	1.520	2.481	9.7	20.7
8 9	18 54.50	-16 24.4	1.875	2.774	11.8	19.9	8 9	18 47.64	-22 22.2	1.576	2.472	13.8	20.9
208629	2002 <i>EY</i> ₈₃		7 9.3 93°69	2°4/ 9.9	17		95864	2003 <i>GC</i> ₂₂		7 9.3 32°80	6°3/11.3	16	
5 31	19 46.24	-15 28.1	1.526	2.345	18.2	21.2	5 31	19 37.69	- 6 40.8	1.822	2.618	16.5	19.0
6 10	19 41.55	-15 28.4	1.465	2.365	14.5	21.0	6 10	19 34.42	- 6 1.6	1.754	2.630	13.7	18.8
6 20	19 34.06	-15 39.4	1.424	2.386	10.2	20.8	6 20	19 29.00	- 5 36.3	1.706	2.642	10.7	18.6
6 30	19 24.50	-16 0.0	1.405	2.406	5.6	20.6	6 30	19 21.99	- 5 27.1	1.680	2.655	7.8	18.5
7 10	19 13.99	-16 27.3	1.412	2.425	2.4	20.4	7 10	19 14.20	- 5 34.3	1.678	2.668	6.3	18.4
7 20	19 3.76	-16 58.3	1.445	2.444	5.5	20.7	7 20	19 6.55	- 5 56.6	1.701	2.682	7.2	18.5
7 30	18 55.04	-17 30.2	1.503	2.463	9.8	21.0	7 30	18 59.94	- 6 31.3	1.750	2.696	9.7	18.7
8 9	18 48.71	-18 1.0	1.584	2.481	13.6	21.3	8 9	18 55.11	- 7 14.6	1.821	2.710	12.6	18.9
111743	2002 <i>CA</i> ₉₄		7 9.3 347°94	3°8/ 7.9	18		442090	2010 <i>TT</i> ₁₄		7 9.3 230°93	3°5/ 8.0	18	
5 31	19 38.09	-32 51.0	2.327	3.152	12.5	18.2	5 31	19 42.68	-32 38.8	2.600	3.410	11.8	21.7
6 10	19 34.75	-33 19.8	2.241	3.144	10.0	18.0	6 10	19 38.10	-33 8.5	2.509	3.403	9.4	21.5
6 20	19 29.27	-33 46.2	2.176	3.137	7.3	17.8	6 20	19 31.45	-33 36.2	2.440	3.397	6.8	21.3
6 30	19 22.15	-34 6.5	2.137	3.130	4.8	17.6	6 30	19 23.21	-33 58.1	2.397	3.390	4.4	21.1
7 10	19 14.17	-34 17.6	2.123	3.124	3.9	17.6	7 10	19 14.12	-34 11.2	2.381	3.382	3.6	21.1
7 20	19 6.20	-34 17.5	2.136	3.119	5.7	17.7	7 20	19 5.03	-34 13.5	2.393	3.375	5.3	21.2
7 30	18 59.19	-34 5.9	2.175	3.114	8.5	17.8	7 30	18 56.83	-34 4.8	2.433	3.367	8.0	21.3
8 9	18 53.89	-33 44.4	2.237	3.110	11.2	18.0	8 9	18 50.25	-33 46.5	2.497	3.359	10.6	21.5
507745	2013 <i>YW</i> ₉		7 9.3 196°59	1°1/ 9.9	18		139083	2001 <i>FZ</i> ₁₉		7 9.3 76°53	0°9/ 9.1	17	
5 31	19 42.34	-14 2.9	1.946	2.752	15.3	21.2	5 31	19 46.36	-23 31.9	1.471	2.306	18.0	20.6
6 10	19 38.30	-15 5.1	1.857	2.751	12.2	21.0	6 10	19 41.92	-23 44.8	1.411	2.323	14.1	20.4
6 20	19 31.87	-16 21.8	1.790	2.750	8.6	20.7	6 20	19 34.47	-24 1.8	1.370	2.340	9.7	20.2
6 30	19 23.53	-17 50.1	1.747	2.750	4.5	20.5	6 30	19 24.76	-24 19.3	1.352	2.358	4.8	19.9
7 10	19 14.06	-19 25.0	1.733	2.749	1.1	20.3	7 10	19 14.01	-24 33.5	1.359	2.375	1.1	19.7
7 20	19 4.45	-21 0.8	1.747	2.748	4.6	20.5	7 20	19 3.60	-24 42.0	1.392	2.392	5.6	20.1
7 30	18 55.76	-22 32.0	1.788	2.746	8.7	20.7	7 30	18 54.84	-24 44.1	1.449	2.409	10.1	20.4
8 9	18 48.91	-23 54.7	1.855	2.745	12.4	21.0	8 9	18 48.68	-24 40.5	1.529	2.426	14.1	20.6
112788	2002 <i>PC</i> ₁₆₃		7 9.3 95°16	5°3/ 8.2	18		466558	2014 <i>SL</i> ₃₃₃		7 9.3 293°16	4°9/ 8.1	17	
5 31	19 48.30	-36 20.4	1.976	2.790	14.8	19.9	5 31	19 44.57	-29 49.2	1.288	2.139	19.1	21.4
6 10	19 43.04	-36 47.2	1.906	2.800	12.0	19.8	6 10	19 41.88	-30 33.7	1.202	2.122	15.4	21.1
6 20	19 35.03	-37 8.0	1.858	2.810	8.9	19.6	6 20	19 35.41	-31 20.8	1.134	2.105	11.1	20.8
6 30	19 24.97	-37 17.4	1.833	2.819	6.2	19.4	6 30	19 25.68	-32 3.3	1.087	2.088	6.8	20.5
7 10	19 13.96	-37 11.7	1.835	2.829	5.3	19.4	7 10	19 13.92	-32 33.4	1.063	2.072	5.1	20.3
7 20	19 3.25	-36 49.4	1.862	2.838	7.1	19.5	7 20	19 1.87	-32 45.4	1.063	2.055	8.5	20.5
7 30	18 54.02	-36 12.0	1.916	2.848	9.9	19.7	7 30	18 51.47	-32 37.9	1.084	2.039	13.4	20.7
8 9	18 47.16	-35 23.6	1.993	2.857	12.8	19.9	8 9	18 44.30	-32 14.0	1.125	2.022	18.0	20.9
305482	2008 <i>DG</i> ₇₃		7 9.3 222°20	4°2/ 7.9	18		315667	2008 <i>DR</i> ₇₃					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
342782	2008 <i>WT</i> ₁₁₀		7 9.3 326°78	1.5°/ 8.8	16		88157	2000 <i>XJ</i> ₁₂		7 9.3 209°66	0.3°/ 9.2	18	
5 31	19 41.41	-24 18.8	1.743	2.577	15.7	20.8	5 31	19 41.88	-23 47.7	2.523	3.332	12.1	20.2
6 10	19 37.93	-24 45.2	1.661	2.572	12.4	20.6	6 10	19 37.28	-23 41.4	2.431	3.329	9.5	20.0
6 20	19 31.79	-25 15.8	1.598	2.569	8.6	20.4	6 20	19 30.79	-23 36.2	2.362	3.326	6.6	19.8
6 30	19 23.53	-25 47.2	1.560	2.565	4.3	20.1	6 30	19 22.86	-23 30.6	2.318	3.323	3.2	19.6
7 10	19 14.12	-26 15.3	1.546	2.561	1.6	19.9	7 10	19 14.20	-23 23.3	2.303	3.320	0.4	19.3
7 20	19 4.68	-26 37.1	1.559	2.558	5.4	20.1	7 20	19 5.59	-23 13.4	2.316	3.316	3.8	19.6
7 30	18 56.44	-26 50.7	1.597	2.555	9.6	20.4	7 30	18 57.82	-23 0.7	2.357	3.312	7.1	19.8
8 9	18 50.36	-26 56.5	1.658	2.552	13.4	20.6	8 9	18 51.58	-22 45.7	2.424	3.308	10.1	20.0
419688	2010 <i>UV</i> ₁₂		7 9.3 266°82	4.7°/ 7.9	17		280134	2002 <i>NM</i> ₅₈		7 9.3 36°30	8.5°/ 11.1	18	
5 31	19 46.13	-30 38.4	1.585	2.419	16.9	21.6	5 31	19 40.35	-3 4.3	1.858	2.634	17.0	20.3
6 10	19 42.35	-31 25.1	1.496	2.406	13.6	21.4	6 10	19 36.54	-1 47.3	1.782	2.636	14.5	20.2
6 20	19 35.28	-32 13.0	1.426	2.392	9.9	21.1	6 20	19 30.52	-0 44.0	1.725	2.639	11.9	20.0
6 30	19 25.45	-32 55.6	1.380	2.378	6.2	20.9	6 30	19 22.80	+ 0 1.5	1.690	2.643	9.6	19.9
7 10	19 13.96	-33 26.3	1.358	2.364	4.8	20.7	7 10	19 14.21	+ 0 26.5	1.679	2.646	8.5	19.8
7 20	19 2.28	-33 40.5	1.362	2.349	7.7	20.9	7 20	19 5.66	+ 0 30.4	1.692	2.649	9.2	19.9
7 30	18 52.02	-33 37.1	1.389	2.335	11.8	21.1	7 30	18 58.14	+ 0 14.7	1.730	2.653	11.3	20.0
8 9	18 44.47	-33 18.6	1.438	2.320	15.7	21.3	8 9	18 52.41	- 0 16.7	1.789	2.657	13.8	20.2
509078	2005 <i>US</i> ₃₇		7 9.3 190°14	4.8°/ 6.7	18		342986	2009 <i>BN</i> ₄₉		7 9.3 189°19	0.5°/ 9.1	18	
5 31	19 43.84	-37 6.6	2.925	3.723	10.9	22.3	5 31	19 41.93	-22 42.9	2.069	2.888	14.0	21.4
6 10	19 38.94	-38 6.8	2.840	3.722	8.9	22.1	6 10	19 37.79	-22 55.5	1.984	2.888	11.1	21.2
6 20	19 32.01	-39 3.8	2.779	3.720	6.8	22.0	6 20	19 31.39	-23 11.9	1.921	2.888	7.6	21.0
6 30	19 23.51	-39 53.2	2.744	3.718	5.2	21.9	6 30	19 23.24	-23 29.6	1.882	2.888	3.8	20.7
7 10	19 14.12	-40 31.0	2.737	3.716	4.9	21.9	7 10	19 14.17	-23 46.1	1.871	2.887	0.6	20.5
7 20	19 4.68	-40 54.9	2.757	3.713	6.2	21.9	7 20	19 5.13	-23 59.2	1.886	2.886	4.4	20.8
7 30	18 56.04	-41 4.2	2.805	3.710	8.2	22.1	7 30	18 57.10	-24 7.9	1.929	2.886	8.2	21.0
8 9	18 48.96	-41 0.3	2.876	3.706	10.2	22.2	8 9	18 50.90	-24 12.0	1.995	2.885	11.6	21.2
249801	2000 <i>YS</i> ₉₃		7 9.3 256°85	0.2°/ 9.2	18		521354	2015 <i>LH</i> ₄₆		7 9.3 72°91	0.2°/ 9.3	16	
5 31	19 40.49	-21 45.2	2.675	3.481	11.6	21.8	5 31	19 40.51	-20 43.6	2.104	2.923	13.9	21.5
6 10	19 36.25	-21 59.5	2.566	3.462	9.2	21.6	6 10	19 36.56	-20 55.1	2.024	2.928	10.9	21.3
6 20	19 30.16	-22 17.4	2.479	3.443	6.3	21.3	6 20	19 30.47	-21 11.5	1.966	2.933	7.5	21.1
6 30	19 22.61	-22 37.4	2.418	3.423	3.1	21.1	6 30	19 22.76	-21 30.9	1.933	2.938	3.7	20.9
7 10	19 14.20	-22 57.2	2.386	3.402	0.3	20.8	7 10	19 14.22	-21 50.9	1.926	2.943	0.3	20.6
7 20	19 5.65	-23 15.2	2.382	3.382	3.7	21.1	7 20	19 5.74	-22 9.5	1.947	2.948	4.2	21.0
7 30	18 57.76	-23 30.0	2.407	3.360	7.0	21.3	7 30	18 58.25	-22 25.3	1.995	2.953	7.9	21.2
8 9	18 51.22	-23 41.1	2.457	3.339	10.0	21.4	8 9	18 52.49	-22 37.5	2.067	2.958	11.2	21.4
370284	2002 <i>QG</i> ₉₈		7 9.3 330°00	2.7°/ 8.7	17		17133	1999 <i>JC</i> ₈₁		7 9.3 16°66	10.5°/ 13.0	18	
5 31	19 38.77	-25 53.9	1.190	2.055	19.5	21.4	5 31	19 36.75	+ 0 19.2	1.428	2.219	20.5	16.4
6 10	19 36.84	-26 19.0	1.108	2.038	15.6	21.1	6 10	19 34.37	+ 1 15.7	1.362	2.223	17.8	16.2
6 20	19 31.88	-26 48.8	1.044	2.022	10.9	20.8	6 20	19 29.37	+ 1 49.6	1.312	2.227	14.8	16.1
6 30	19 23.89	-27 18.7	1.001	2.007	5.8	20.5	6 30	19 22.34	+ 1 56.0	1.281	2.233	12.1	15.9
7 10	19 14.08	-27 42.8	0.979	1.993	2.8	20.2	7 10	19 14.26	+ 1 32.9	1.271	2.239	10.6	15.8
7 20	19 4.08	-27 56.6	0.980	1.980	7.3	20.5	7 20	19 6.24	+ 0 41.7	1.283	2.246	11.0	15.9
7 30	18 55.69	-27 58.0	1.002	1.969	12.7	20.7	7 30	18 59.46	- 0 32.4	1.318	2.254	13.0	16.0
8 9	18 50.35	-27 48.2	1.043	1.958	17.6	21.0	8 9	18 54.84	- 2 1.7	1.372	2.263	15.8	16.2
9787	1995 <i>BA</i> ₃		7 9.3 174°74	0.4°/ 9.2	18		224769	2006 <i>FC</i> ₁₄		7 9.3 159°09	2.1°/ 10.2	18	
5 31	19 42.35	-22 15.6	2.322	3.133	13.0	18.6	5 31	19 37.34	-14 30.2	2.677	3.474	11.8	20.9
6 10	19 37.84	-22 31.7	2.236	3.135	10.2	18.4	6 10	19 33.57	-14 27.5	2.588	3.475	9.4	20.7
6 20	19 31.27	-22 51.5	2.171	3.136	7.0	18.2	6 20	19 28.17	-14 31.6	2.521	3.475	6.8	20.5
6 30	19 23.13	-23 12.8	2.133	3.138	3.4	18.0	6 30	19 21.56	-14 42.0	2.479	3.476	3.9	20.3
7 10	19 14.17	-23 33.1	2.122	3.138	0.5	17.7	7 10	19 14.32	-14 57.8	2.465	3.476	2.1	20.2
7 20	19 5.22	-23 50.4	2.139	3.139	4.1	18.0	7 20	19 7.09	-15 17.5	2.479	3.476	3.8	20.3
7 30	18 57.18	-24 3.5	2.184	3.139	7.6	18.2	7 30	19 0.54	-15 39.9	2.521	3.477	6.7	20.5
8 9	18 50.78	-24 12.2	2.254	3.138	10.7	18.4	8 9	18 55.25	-16 3.4	2.589	3.477	9.3	20.7
416224	2002 <i>XM</i> ₉₀		7 9.3 79°89	9.0°/ 6.3	15 R		69449	1996 <i>TD</i> ₂		7 9.3 330°91	4.7°/ 8.1	18	
5 31	20 9.81	-28 11.5	0.946	1.782	25.5	20.3	5 31	19 43.20	-29 25.5	1.308	2.161	18.8	18.6
6 10	20 2.29	-31 34.3	0.921	1.830	20.1	20.1	6 10	19 40.49	-30 13.4	1.233	2.154	15.1	18.4
6 20	19 49.44	-34 58.7	0.915	1.877	14.4	20.0	6 20	19 34.21	-31 3.5	1.177	2.148	10.8	18.1
6 30	19 32.37	-38 1.7	0.932	1.922	9.9	19.9	6 30	19 24.98	-31 48.9	1.142	2.143	6.5	17.8
7 10	19 13.48	-40 23.0	0.974	1.965	9.3	20.0	7 10	19 14.06	-32 22.4	1.130	2.138	4.8	17.7
7 20	18 55.67	-41 54.1	1.040	2.007	12.3	20.3	7 20	19 3.11	-32 38.8	1.141	2.133	8.1	17.9
7 30	18 41.49	-42 39.0	1.128	2.047	16.3	20.7	7 30	18 53.87	-32 37.2	1.175	2.129	12.6	18.1
8 9	18 32.32	-42 49.9	1.235	2.086	19.8	21.0	8 9	18 47.68	-32 20.2	1.229	2.126	16.8	18.4
313953	2004 <i>RX</i> ₁₉₈		7 9.3 282°32	5.4°/ 7.6	18		239568	2008 <i>TE</i> ₅		7 9.3 226°74	1.3°/ 8.9	17	
5 31	19 45.18	-38 12.8	2.425	3.230	12.6	20.8	5 31	19 43.95	-24 35.0	2.266	3.078	13.2	22.2
6 10	19 40.47	-38 43.9	2.327	3.212	10.4	20.6	6 10	19 39.34	-24 56.8	2.168	3.068	10.5	22.0
6 20	19 33.32	-39 9.6	2.250	3.194	8.0	20.4	6 20	19 32.47	-25 21.4	2.092	3.057	7.2	21.8
6 30	19 24.24	-39 25.1	2.198	3.176	6.0	20.3	6 30	19 23.82	-25 46.1	2.041	3.045	3.7	21.5
7 10	19 14.09	-39 26.5	2.173	3.158	5.5	20.2	7 10	19 14.16	-26 7.7	2.019	3.034	1.3	21.3
7 20	19 3.90	-39 11.6	2.174	3.140	6.9	20.3	7 20	19 4.40	-26 23.9	2.024	3.021	4.5	21.5
7 30	18 54.77	-38 40.9	2.201	3.121	9.4	20.4	7 30	18 55.53	-26 33.5	2.057	3.008	8.2	21.7
8 9	18 47.58	-37 57.2	2.252	3.103	12.0	20.5	8 9	18 48.40	-26 36.6	2.114	2.995	11.5	21.9
470378	2007 <i>TX</i> ₂₂₅		7 9.3 301°36	0.6°/ 9.5	18		301148	20					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
478876	2012 VA ₁₀₁		7 9.3 282°74	5°1/10.7 18			288872	2004 RR ₂₃₃		7 9.3 269°24	0°5/ 9.5 18		
5 31	19 39.71	-9 34.9	1.935	2.733	15.6	21.8	5 31	19 39.30	-19 55.0	2.538	3.347	12.0	21.8
6 10	19 36.27	-9 7.3	1.833	2.714	13.0	21.5	6 10	19 35.40	-20 3.1	2.433	3.331	9.6	21.6
6 20	19 30.54	-8 50.8	1.751	2.695	9.9	21.3	6 20	19 29.63	-20 15.8	2.351	3.314	6.6	21.4
6 30	19 22.95	-8 47.0	1.691	2.676	6.8	21.1	6 30	19 22.40	-20 31.7	2.294	3.298	3.4	21.1
7 10	19 14.24	-8 56.4	1.657	2.657	5.1	20.9	7 10	19 14.33	-20 49.2	2.265	3.282	0.5	20.9
7 20	19 5.33	-9 18.1	1.649	2.637	6.5	21.0	7 20	19 6.16	-21 6.5	2.264	3.265	3.8	21.1
7 30	18 57.26	-9 50.2	1.666	2.617	9.7	21.1	7 30	18 58.67	-21 22.3	2.291	3.248	7.1	21.3
8 9	18 50.93	-10 29.6	1.706	2.598	13.2	21.3	8 9	18 52.59	-21 35.8	2.343	3.231	10.2	21.5
141771	2002 NC ₄		7 9.3 16°26	0°1/ 9.3 17			260493	2005 EO ₂		7 9.3 124°80	0°2/ 9.3 17		
5 31	19 38.66	-22 3.3	1.043	1.914	21.2	19.7	5 31	19 47.38	-22 49.5	1.634	2.459	16.9	20.4
6 10	19 37.00	-21 56.2	0.987	1.919	16.8	19.5	6 10	19 42.56	-22 46.6	1.562	2.468	13.4	20.2
6 20	19 31.73	-21 55.5	0.947	1.926	11.6	19.2	6 20	19 34.88	-22 47.1	1.510	2.477	9.2	20.0
6 30	19 23.65	-21 58.8	0.926	1.934	5.7	18.9	6 30	19 25.05	-22 48.6	1.481	2.486	4.5	19.7
7 10	19 14.19	-22 2.8	0.927	1.943	0.4	18.6	7 10	19 14.16	-22 48.4	1.478	2.495	0.4	19.4
7 20	19 5.03	-22 5.2	0.949	1.954	6.4	19.0	7 20	19 3.47	-22 44.9	1.502	2.503	5.2	19.8
7 30	18 57.81	-22 4.6	0.994	1.966	12.0	19.4	7 30	18 54.24	-22 37.8	1.551	2.511	9.7	20.1
8 9	18 53.65	-22 1.0	1.057	1.979	16.7	19.7	8 9	18 47.43	-22 27.7	1.624	2.518	13.6	20.3
119922	2002 ES ₁₁₂		7 9.3 341°60	0°8/ 9.6 18			57701	2001 UT ₉₄		7 9.3 95°44	0°6/ 9.0 18		
5 31	19 35.08	-18 47.6	2.413	3.231	12.3	19.3	5 31	19 40.95	-20 29.5	2.191	3.006	13.5	19.2
6 10	19 32.13	-18 56.1	2.318	3.221	9.8	19.1	6 10	19 36.91	-21 17.2	2.112	3.013	10.6	19.0
6 20	19 27.39	-19 10.2	2.245	3.211	6.8	18.9	6 20	19 30.75	-22 11.8	2.055	3.021	7.3	18.8
6 30	19 21.27	-19 28.8	2.197	3.201	3.5	18.7	6 30	19 22.96	-23 10.0	2.024	3.029	3.6	18.6
7 10	19 14.38	-19 50.1	2.176	3.192	0.8	18.4	7 10	19 14.31	-24 7.9	2.020	3.036	0.7	18.4
7 20	19 7.44	-20 12.3	2.183	3.184	3.8	18.7	7 20	19 5.66	-25 1.9	2.045	3.044	4.3	18.7
7 30	19 1.23	-20 34.0	2.216	3.176	7.1	18.9	7 30	18 57.92	-25 49.3	2.097	3.051	7.8	18.9
8 9	18 56.40	-20 53.8	2.273	3.169	10.2	19.0	8 9	18 51.86	-26 28.8	2.173	3.058	11.0	19.1
509717	2008 SB ₁₃₂		7 9.3 276°53	3°1/ 8.4 18			277562	2005 YX ₁₃₂		7 9.3 76°51	2°4/ 8.5 17		
5 31	19 44.80	-28 48.2	1.954	2.776	14.6	22.4	5 31	19 43.52	-25 27.2	1.714	2.545	16.0	20.7
6 10	19 40.70	-29 19.2	1.847	2.752	11.7	22.1	6 10	19 39.60	-26 11.5	1.642	2.553	12.6	20.5
6 20	19 33.85	-29 51.5	1.762	2.727	8.4	21.9	6 20	19 32.93	-26 59.8	1.591	2.560	8.7	20.2
6 30	19 24.70	-30 20.8	1.701	2.701	4.8	21.6	6 30	19 24.14	-27 47.5	1.564	2.568	4.6	20.0
7 10	19 14.12	-30 42.6	1.666	2.675	3.2	21.5	7 10	19 14.23	-28 29.4	1.563	2.576	2.5	19.9
7 20	19 3.25	-30 53.4	1.658	2.649	6.1	21.6	7 20	19 4.40	-29 1.8	1.588	2.584	5.8	20.1
7 30	18 53.39	-30 51.9	1.676	2.623	10.0	21.8	7 30	18 55.88	-29 22.8	1.639	2.592	9.7	20.4
8 9	18 45.65	-30 39.4	1.717	2.596	13.7	21.9	8 9	18 49.64	-29 33.1	1.712	2.599	13.3	20.6
75832	2000 BU ₂₅		7 9.3 189°98	1°0/ 9.7 18			340540	2006 KL ₄		7 9.3 230°98	0°7/ 9.1 17		
5 31	19 41.06	-18 4.2	2.051	2.865	14.3	20.0	5 31	19 42.00	-22 32.6	1.981	2.802	14.5	21.1
6 10	19 37.10	-18 16.3	1.965	2.865	11.4	19.8	6 10	19 38.04	-22 54.8	1.894	2.800	11.5	20.9
6 20	19 30.94	-18 35.7	1.901	2.864	7.9	19.5	6 20	19 31.71	-23 21.9	1.829	2.797	7.9	20.7
6 30	19 23.06	-19 0.7	1.861	2.864	4.1	19.3	6 30	19 23.51	-23 50.9	1.789	2.794	3.9	20.5
7 10	19 14.26	-19 28.9	1.847	2.863	1.0	19.1	7 10	19 14.28	-24 18.7	1.775	2.791	0.8	20.2
7 20	19 5.45	-19 58.0	1.862	2.862	4.4	19.3	7 20	19 5.04	-24 42.6	1.788	2.788	4.7	20.5
7 30	18 57.60	-20 25.8	1.902	2.862	8.2	19.6	7 30	18 56.82	-25 0.9	1.828	2.785	8.6	20.7
8 9	18 51.50	-20 51.0	1.968	2.860	11.6	19.8	8 9	18 50.50	-25 13.1	1.891	2.781	12.1	20.9
94380	2001 SD ₆₉		7 9.3 289°32	3°6/10.2 18			209324	2004 BD ₈₂		7 9.3 204°34	3°8/10.8 18		
5 31	19 41.24	-14 18.3	1.360	2.194	19.2	20.2	5 31	19 40.27	-9 45.7	2.528	3.307	12.9	21.5
6 10	19 38.66	-14 7.1	1.265	2.173	15.7	20.0	6 10	19 35.99	-9 34.0	2.432	3.303	10.6	21.3
6 20	19 32.90	-14 8.7	1.187	2.152	11.5	19.6	6 20	19 29.94	-9 31.7	2.358	3.298	7.9	21.1
6 30	19 24.41	-14 23.8	1.130	2.130	6.8	19.3	6 30	19 22.52	-9 39.4	2.309	3.293	5.3	20.9
7 10	19 14.16	-14 51.3	1.097	2.109	3.6	19.1	7 10	19 14.36	-9 56.4	2.286	3.287	3.8	20.8
7 20	19 3.50	-15 28.3	1.087	2.088	6.8	19.2	7 20	19 6.15	-10 21.7	2.292	3.281	5.0	20.9
7 30	18 54.03	-16 11.2	1.100	2.066	11.9	19.4	7 30	18 58.65	-10 53.4	2.326	3.274	7.6	21.1
8 9	18 47.11	-16 56.3	1.135	2.045	16.8	19.6	8 9	18 52.49	-11 29.2	2.385	3.267	10.3	21.2
32295	Ravichandran		7 9.3 277°46	3°0/ 8.7 18			443582	2014 KR ₇₀		7 9.3 40°42	1°1/ 9.8 18		
5 31	19 45.69	-29 22.4	1.760	2.587	15.8	18.7	5 31	19 38.80	-16 35.2	2.223	3.034	13.5	21.2
6 10	19 41.53	-29 34.0	1.665	2.572	12.6	18.4	6 10	19 35.16	-17 1.8	2.139	3.036	10.7	21.0
6 20	19 34.44	-29 44.6	1.590	2.557	9.0	18.1	6 20	19 29.52	-17 36.8	2.077	3.039	7.5	20.8
6 30	19 24.97	-29 49.9	1.539	2.541	5.0	17.9	6 30	19 22.36	-18 18.5	2.039	3.041	3.9	20.6
7 10	19 14.13	-29 46.1	1.514	2.525	3.0	17.7	7 10	19 14.38	-19 4.3	2.029	3.044	1.1	20.4
7 20	19 3.20	-29 30.9	1.515	2.509	6.1	17.9	7 20	19 6.38	-19 51.2	2.046	3.047	4.0	20.6
7 30	18 53.55	-29 4.7	1.541	2.494	10.3	18.1	7 30	18 59.23	-20 36.6	2.090	3.050	7.6	20.9
8 9	18 46.28	-28 29.8	1.590	2.478	14.2	18.3	8 9	18 53.64	-21 18.4	2.160	3.053	10.7	21.1
518621	2008 CK ₂₁₈		7 9.3 148°32	3°1/ 8.4 18			312706	2010 PM ₂₅		7 9.3 20°47	0°7/ 9.2 18		
5 31	19 44.64	-31 52.6	2.524	3.332	12.1	22.0	5 31	19 45.71	-27 1.1	2.189	3.002	13.6	19.6
6 10	19 39.55	-32 11.3	2.444	3.338	9.7	21.8	6 10	19 40.51	-26 27.4	2.104	3.004	10.7	19.4
6 20	19 32.38	-32 27.3	2.386	3.344	6.9	21.6	6 20	19 33.09	-25 51.1	2.041	3.006	7.4	19.2
6 30	19 23.68	-32 37.4	2.354	3.349	4.2	21.5	6 30	19 24.05	-25 11.0	2.004	3.008	3.7	18.9
7 10	19 14.24	-32 39.0	2.349	3.354	3.1	21.4	7 10	19 14.27	-24 26.4	1.995	3.011	0.8	18.7
7 20	19 4.92	-32 30.7	2.373	3.359	5.0	21.5	7 20	19 4.68	-23 37.9	2.014	3.013	4.3	19.0
7 30	18 56.61	-32 12.8	2.424	3.363	7.7	21.7	7 30	18 56.25	-22 47.1	2.061	3.016	7.9	19.2
8 9	18 50.00	-31 47.0	2.501	3.368	10.4	21.9	8 9	18 49.68	-21 56.2	2.133	3.019	11.1	19.4
126574	2002 CM ₁₁₂		7 9.3 36°76	9°7/ 7.2 17			394668	2008 CK ₃₃		7 9.3 218°33	0°2/ 9.4 18		
5 31	19 48.43	-42 39.8	1.520	2.345									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
307045	2001 <i>XX</i> ₂₄₆		7 9.3 36°56	5°5/ 7.7 18			336266	2008 <i>SK</i> ₁₇₄		7 9.3 205°69	4°0/ 8.4 18		
5 31	19 44.64	-29 28.6	1.225	2.080	19.7	19.8	5 31	19 48.02	-33 23.2	2.164	2.975	13.8	20.8
6 10	19 41.77	-30 40.9	1.164	2.085	15.7	19.6	6 10	19 42.74	-33 44.3	2.077	2.971	11.1	20.6
6 20	19 35.14	-31 56.3	1.120	2.091	11.3	19.3	6 20	19 34.90	-34 1.8	2.011	2.967	8.1	20.4
6 30	19 25.47	-33 6.1	1.098	2.097	7.0	19.1	6 30	19 25.08	-34 11.4	1.969	2.962	5.2	20.3
7 10	19 14.15	-34 1.1	1.098	2.104	5.7	19.1	7 10	19 14.23	-34 9.2	1.955	2.957	4.1	20.2
7 20	19 2.95	-34 35.3	1.122	2.110	8.8	19.3	7 20	19 3.46	-33 53.6	1.968	2.952	6.1	20.3
7 30	18 53.68	-34 47.5	1.168	2.118	13.1	19.5	7 30	18 53.89	-33 25.2	2.008	2.946	9.2	20.5
8 9	18 47.65	-34 40.8	1.234	2.125	17.1	19.8	8 9	18 46.43	-32 46.8	2.072	2.940	12.2	20.7
102033	1999 <i>RU</i> ₁₀₇		7 9.3 179°32	9°5/14.8 18			141570	2002 <i>GT</i> ₁₂₅		7 9.3 14°78	2°8/ 9.9 17		
5 31	19 37.67	+11 44.9	2.815	3.478	14.1	19.9	5 31	19 36.21	-17 13.4	0.971	1.844	22.2	19.8
6 10	19 33.75	+12 27.8	2.732	3.479	12.8	19.7	6 10	19 35.19	-16 54.8	0.917	1.849	17.8	19.6
6 20	19 28.29	+12 53.3	2.666	3.480	11.5	19.6	6 20	19 30.59	-16 48.5	0.879	1.856	12.5	19.3
6 30	19 21.67	+12 58.2	2.620	3.480	10.3	19.6	6 30	19 23.17	-16 54.4	0.859	1.864	6.8	19.0
7 10	19 14.44	+12 41.0	2.597	3.480	9.6	19.5	7 10	19 14.37	-17 10.1	0.859	1.874	2.8	18.8
7 20	19 7.20	+12 1.9	2.598	3.480	9.6	19.5	7 20	19 5.82	-17 32.3	0.881	1.886	6.8	19.1
7 30	19 0.58	+11 2.8	2.623	3.479	10.4	19.6	7 30	18 59.17	-17 57.5	0.924	1.899	12.2	19.5
8 9	18 55.15	+ 9 47.8	2.670	3.478	11.5	19.6	8 9	18 55.56	-18 22.6	0.985	1.913	17.1	19.8
442800	2013 <i>AS</i> ₁₄		7 9.3 31°00	3°8/ 8.9 16			179405	2001 <i>YV</i> ₁₄₃		7 9.3 253°58	2°9/ 8.4 18		
5 31	19 45.10	-32 55.4	1.684	2.516	16.2	19.6	5 31	19 42.78	-29 50.7	2.277	3.094	13.0	20.6
6 10	19 40.69	-32 53.9	1.626	2.533	12.9	19.4	6 10	19 38.46	-30 13.2	2.187	3.088	10.3	20.4
6 20	19 33.47	-32 47.1	1.588	2.552	9.2	19.3	6 20	19 31.88	-30 34.8	2.120	3.083	7.3	20.2
6 30	19 24.27	-32 31.1	1.573	2.571	5.5	19.1	6 30	19 23.58	-30 52.1	2.078	3.077	4.3	20.0
7 10	19 14.26	-32 3.5	1.583	2.591	3.8	19.0	7 10	19 14.34	-31 2.0	2.063	3.071	2.9	19.9
7 20	19 4.70	-31 24.1	1.619	2.611	6.2	19.2	7 20	19 5.12	-31 2.4	2.075	3.065	5.2	20.0
7 30	18 56.77	-30 35.4	1.681	2.632	9.7	19.5	7 30	18 56.88	-30 53.2	2.114	3.059	8.3	20.2
8 9	18 51.26	-29 40.9	1.765	2.654	13.0	19.7	8 9	18 50.43	-30 35.5	2.177	3.053	11.4	20.4
124550	2001 <i>RQ</i> ₁₃₁		7 9.3 261°09	0°4/ 9.2 18			510684	2012 <i>UM</i> ₆₆		7 9.3 241°59	5°2/ 7.1 18		
5 31	19 44.98	-21 26.7	1.502	2.335	17.7	20.2	5 31	19 45.43	-34 11.1	2.212	3.026	13.4	22.5
6 10	19 41.42	-21 45.2	1.408	2.320	14.2	19.9	6 10	19 40.95	-35 13.4	2.120	3.014	10.9	22.3
6 20	19 34.68	-22 11.4	1.334	2.304	9.9	19.6	6 20	19 33.87	-36 14.7	2.050	3.003	8.2	22.1
6 30	19 25.26	-22 42.4	1.282	2.287	5.0	19.3	6 30	19 24.69	-37 9.3	2.006	2.991	5.8	22.0
7 10	19 14.18	-23 14.0	1.254	2.271	0.6	18.9	7 10	19 14.26	-37 51.6	1.987	2.979	5.3	21.9
7 20	19 2.81	-23 42.1	1.252	2.254	5.9	19.2	7 20	19 3.66	-38 17.8	1.996	2.966	7.1	22.0
7 30	18 52.71	-24 4.0	1.275	2.237	11.1	19.5	7 30	18 54.07	-38 26.9	2.031	2.954	9.9	22.1
8 9	18 45.16	-24 19.1	1.319	2.219	15.7	19.7	8 9	18 46.51	-38 20.6	2.089	2.941	12.7	22.3
304524	2006 <i>UH</i> ₂₃₅		7 9.3 345°44	3°1/10.2 18			429900	2012 <i>TG</i> ₉₄		7 9.3 7°63	11°9/13.9 17		
5 31	19 39.01	-14 25.4	1.879	2.695	15.4	20.7	5 31	19 31.75	+ 0 50.6	1.151	1.968	23.0	20.0
6 10	19 35.66	-14 6.2	1.795	2.692	12.4	20.5	6 10	19 31.03	+ 1 53.2	1.092	1.970	20.1	19.8
6 20	19 30.05	-13 55.6	1.730	2.689	9.0	20.2	6 20	19 27.42	+ 2 28.4	1.049	1.973	16.9	19.6
6 30	19 22.69	-13 53.8	1.689	2.686	5.4	20.0	6 30	19 21.55	+ 2 29.8	1.022	1.978	13.9	19.4
7 10	19 14.39	-14 0.1	1.674	2.684	3.1	19.9	7 10	19 14.50	+ 1 55.0	1.014	1.985	12.1	19.3
7 20	19 6.09	-14 13.3	1.685	2.682	5.3	20.0	7 20	19 7.54	+ 0 46.3	1.026	1.994	12.3	19.4
7 30	18 58.79	-14 31.6	1.721	2.680	8.9	20.2	7 30	19 1.98	+ 0 49.1	1.058	2.005	14.4	19.5
8 9	18 53.30	-14 53.1	1.781	2.679	12.3	20.4	8 9	18 58.83	- 2 40.8	1.109	2.017	17.3	19.8
337141	1999 <i>TM</i> ₂₂₂		7 9.3 257°47	6°1/ 7.3 18			77540	2001 <i>HF</i> ₆₄		7 9.3 52°83	0°9/ 9.5 17		
5 31	19 47.53	-37 8.2	2.088	2.899	14.2	20.9	5 31	19 43.80	-19 56.1	1.355	2.196	18.9	19.6
6 10	19 42.85	-37 58.4	1.994	2.883	11.7	20.7	6 10	19 40.15	-19 52.3	1.295	2.209	15.0	19.4
6 20	19 35.31	-38 44.7	1.920	2.867	9.0	20.5	6 20	19 33.44	-19 55.8	1.253	2.224	10.3	19.2
6 30	19 25.43	-39 20.9	1.871	2.851	6.7	20.3	6 30	19 24.42	-20 4.7	1.233	2.238	5.2	18.9
7 10	19 14.18	-39 41.5	1.848	2.834	6.2	20.3	7 10	19 14.31	-20 16.0	1.237	2.253	1.0	18.7
7 20	19 2.80	-39 42.9	1.851	2.817	7.9	20.3	7 20	19 4.49	-20 27.4	1.266	2.269	5.6	19.0
7 30	18 52.62	-39 25.2	1.880	2.800	10.7	20.5	7 30	18 56.31	-20 37.3	1.319	2.284	10.4	19.4
8 9	18 44.73	-38 51.3	1.931	2.782	13.6	20.6	8 9	18 50.74	-20 44.9	1.393	2.300	14.6	19.6
347047	2010 <i>EM</i> ₁₂₄		7 9.3 75°58	5°9/ 7.7 17			249683	1999 <i>XD</i> ₁₅₅		7 9.3 278°31	3°3/10.2 18		
5 31	19 47.05	-35 41.2	1.845	2.666	15.4	20.9	5 31	19 39.38	-13 0.3	2.471	3.264	12.8	19.9
6 10	19 42.36	-36 34.7	1.783	2.680	12.5	20.7	6 10	19 35.48	-12 33.0	2.362	3.244	10.4	19.7
6 20	19 34.79	-37 23.6	1.742	2.695	9.3	20.6	6 20	19 29.73	-12 12.2	2.275	3.224	7.7	19.5
6 30	19 25.03	-38 1.4	1.724	2.709	6.7	20.5	6 30	19 22.51	-11 58.5	2.213	3.204	4.9	19.3
7 10	19 14.23	-38 23.0	1.732	2.724	6.0	20.4	7 10	19 14.45	-11 52.0	2.178	3.183	3.3	19.1
7 20	19 3.66	-38 25.8	1.766	2.738	7.7	20.6	7 20	19 6.26	-11 52.3	2.171	3.162	4.8	19.2
7 30	18 54.62	-38 10.7	1.825	2.752	10.6	20.8	7 30	18 58.74	-11 58.8	2.190	3.142	7.8	19.3
8 9	18 48.04	-37 41.2	1.906	2.767	13.4	21.0	8 9	18 52.59	-12 10.0	2.235	3.121	10.7	19.5
24383	2000 <i>AC</i> ₁₇₀		7 9.3 162°89	0°5/ 9.5 18			236413	2006 <i>DC</i> ₈₅		7 9.3 359°81	1°2/ 9.1 17		
5 31	19 41.98	-17 10.0	2.084	2.894	14.3	18.3	5 31	19 42.31	-24 41.2	1.647	2.483	16.3	20.6
6 10	19 37.86	-17 56.5	1.999	2.896	11.3	18.1	6 10	19 38.76	-24 49.2	1.569	2.482	12.9	20.4
6 20	19 31.52	-18 52.8	1.935	2.898	7.9	17.9	6 20	19 32.44	-24 59.9	1.511	2.482	8.9	20.2
6 30	19 23.42	-19 56.4	1.896	2.900	4.0	17.7	6 30	19 23.96	-25 10.3	1.476	2.481	4.5	19.9
7 10	19 14.34	-21 3.3	1.885	2.901	0.5	17.4	7 10	19 14.35	-25 17.2	1.466	2.482	1.3	19.7
7 20	19 5.19	-22 9.1	1.902	2.903	4.3	17.7	7 20	19 4.81	-25 18.5	1.482	2.482	5.3	20.0
7 30	18 56.96	-23 10.3	1.947	2.904	8.2	17.9	7 30	18 56.59	-25 13.6	1.522	2.483	9.7	20.2
8 9	18 50.46	-24 4.7	2.017	2.905	11.6	18.1	8 9	18 50.66	-25 3.2	1.586	2.484	13.6	20.5
491413	2012 <i>DE</i> ₆₂		7 9.3 89°40	19°0/10.1 18			95258	2002					

EPHEMERIDES

7 9.3

7 9.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
25601	Francopacini		7 9.3 198°38	0°0/ 9.2 18			309694	2008 FJ ₄₅		7 9.4 196°34	5°0/11.4 18		
5 31	19 39.36	-21 9.9	2.885	3.689	10.9	19.7	5 31	19 38.25	-6 32.8	2.308	3.086	14.0	21.3
6 10	19 35.15	-21 24.0	2.791	3.686	8.6	19.5	6 10	19 34.59	-6 18.2	2.221	3.086	11.6	21.1
6 20	19 29.30	-21 41.6	2.721	3.684	5.9	19.4	6 20	19 29.10	-6 15.8	2.154	3.086	9.0	20.9
6 30	19 22.22	-22 1.1	2.676	3.681	2.9	19.2	6 30	19 22.20	-6 26.7	2.110	3.085	6.5	20.8
7 10	19 14.49	-22 20.7	2.661	3.677	0.2	18.9	7 10	19 14.55	-6 50.7	2.093	3.085	5.0	20.7
7 20	19 6.73	-22 38.9	2.674	3.674	3.3	19.2	7 20	19 6.89	-7 26.2	2.103	3.085	5.9	20.7
7 30	18 59.64	-22 54.6	2.715	3.670	6.3	19.4	7 30	18 59.99	-8 10.8	2.139	3.084	8.3	20.9
8 9	18 53.80	-23 7.1	2.783	3.666	9.0	19.5	8 9	18 54.52	-9 1.4	2.199	3.084	10.9	21.0
481012	2004 RW ₁₆₁		7 9.3 353°39	1°4/ 9.4 18			351486	2005 QJ ₁₀₂		7 9.4 292°90	3°2/ 8.6 18		
5 31	19 42.41	-22 35.6	1.705	2.536	16.1	19.7	5 31	19 43.91	-31 19.8	2.152	2.970	13.6	21.0
6 10	19 38.59	-21 38.0	1.621	2.530	12.8	19.5	6 10	19 39.50	-31 32.9	2.064	2.964	10.9	20.8
6 20	19 32.17	-20 39.6	1.557	2.526	8.9	19.3	6 20	19 32.70	-31 43.5	1.997	2.959	7.7	20.6
6 30	19 23.77	-19 40.7	1.517	2.522	4.6	19.0	6 30	19 24.05	-31 48.0	1.955	2.953	4.6	20.4
7 10	19 14.38	-18 42.1	1.503	2.519	1.5	18.8	7 10	19 14.44	-31 43.4	1.940	2.947	3.3	20.3
7 20	19 5.14	-17 45.4	1.516	2.517	5.1	19.0	7 20	19 4.89	-31 28.1	1.952	2.942	5.5	20.4
7 30	18 57.17	-16 52.7	1.554	2.516	9.4	19.3	7 30	18 56.45	-31 2.6	1.990	2.936	8.7	20.6
8 9	18 51.36	-16 5.4	1.616	2.516	13.3	19.5	8 9	18 49.95	-30 29.0	2.053	2.931	11.9	20.8
283879	2003 YZ ₁₁₃		7 9.3 133°40	1°2/ 9.7 18			318363	2004 UC ₁		7 9.4 331°97	0°4/ 9.3 18		
5 31	19 42.70	-18 36.7	2.359	3.162	13.0	21.0	5 31	19 38.98	-23 26.4	1.890	2.722	14.7	20.3
6 10	19 37.96	-18 29.8	2.280	3.173	10.3	20.9	6 10	19 35.87	-23 23.6	1.798	2.708	11.7	20.0
6 20	19 31.29	-18 27.5	2.222	3.183	7.2	20.7	6 20	19 30.37	-23 23.5	1.726	2.696	8.1	19.8
6 30	19 23.21	-18 28.9	2.191	3.192	3.8	20.5	6 30	19 22.97	-23 24.1	1.678	2.683	4.0	19.5
7 10	19 14.43	-18 32.8	2.186	3.202	1.2	20.3	7 10	19 14.51	-23 23.3	1.655	2.672	0.5	19.2
7 20	19 5.76	-18 37.9	2.211	3.210	3.9	20.5	7 20	19 6.01	-23 19.7	1.659	2.661	4.7	19.5
7 30	18 58.00	-18 43.3	2.263	3.219	7.3	20.7	7 30	18 58.53	-23 12.6	1.689	2.650	8.8	19.8
8 9	18 51.81	-18 48.5	2.340	3.227	10.3	20.9	8 9	18 52.97	-23 2.4	1.742	2.641	12.5	20.0
225774	2001 TB ₂₁		7 9.3 225°29	3°0/ 9.9 18			253859	2004 AL		7 9.4 207°23	0°3/ 9.4 17		
5 31	19 44.51	-15 52.4	1.970	2.775	15.2	20.2	5 31	19 44.59	-20 11.5	1.748	2.570	16.1	21.8
6 10	19 39.93	-15 17.1	1.877	2.768	12.2	20.0	6 10	19 40.43	-20 25.3	1.663	2.567	12.8	21.6
6 20	19 32.97	-14 47.4	1.804	2.760	8.8	19.8	6 20	19 33.58	-20 46.0	1.597	2.564	8.9	21.4
6 30	19 24.17	-14 23.8	1.756	2.753	5.2	19.6	6 30	19 24.59	-21 11.2	1.555	2.560	4.5	21.1
7 10	19 14.36	-14 6.3	1.734	2.744	3.0	19.4	7 10	19 14.41	-21 37.8	1.539	2.556	0.4	20.8
7 20	19 4.52	-13 54.6	1.740	2.736	5.3	19.5	7 20	19 4.17	-22 2.8	1.550	2.552	5.0	21.1
7 30	18 55.68	-13 48.5	1.772	2.727	9.0	19.7	7 30	18 55.10	-22 24.1	1.587	2.547	9.4	21.4
8 9	18 48.72	-13 47.0	1.828	2.717	12.6	19.9	8 9	18 48.20	-22 40.9	1.647	2.542	13.4	21.6
339466	2005 EU ₂₄₂		7 9.3 95°33	6°0/ 7.3 17			221630	2006 YA ₃₅		7 9.4 290°15	2°7/ 8.8 17		
5 31	19 47.37	-36 33.5	2.047	2.860	14.4	20.6	5 31	19 44.90	-28 2.2	1.568	2.404	17.0	20.5
6 10	19 42.44	-37 36.9	1.984	2.875	11.7	20.5	6 10	19 41.33	-28 14.6	1.476	2.388	13.6	20.2
6 20	19 34.79	-38 35.8	1.942	2.890	8.9	20.3	6 20	19 34.59	-28 27.4	1.403	2.372	9.6	19.9
6 30	19 25.06	-39 23.7	1.925	2.905	6.6	20.2	6 30	19 25.24	-28 36.3	1.352	2.356	5.2	19.6
7 10	19 14.32	-39 55.6	1.934	2.919	6.1	20.2	7 10	19 14.36	-28 37.1	1.327	2.340	2.8	19.5
7 20	19 3.74	-40 8.6	1.970	2.933	7.7	20.4	7 20	19 3.33	-28 27.1	1.326	2.324	6.4	19.6
7 30	18 54.53	-40 3.2	2.030	2.948	10.2	20.5	7 30	18 53.67	-28 6.1	1.350	2.308	11.0	19.9
8 9	18 47.62	-39 42.5	2.113	2.961	12.7	20.7	8 9	18 46.59	-27 36.4	1.396	2.292	15.3	20.1
333985	2000 SR ₄₂		7 9.4 319°04	25°5/ 9.8 16			514689	2005 YE ₂₃₀		7 9.4 246°64	2°4/ 8.1 18		
5 31	19 35.96	+35 29.5	1.686	2.219	25.8	20.2	5 31	19 41.34	-27 9.5	2.634	3.445	11.6	21.6
6 10	19 34.39	+37 41.4	1.611	2.188	25.7	20.1	6 10	19 37.15	-28 1.9	2.535	3.433	9.2	21.4
6 20	19 29.96	+39 21.3	1.542	2.158	25.6	20.0	6 20	19 30.97	-28 57.1	2.459	3.421	6.4	21.2
6 30	19 23.02	+40 18.7	1.481	2.128	25.5	19.9	6 30	19 23.21	-29 51.5	2.409	3.409	3.7	21.0
7 10	19 14.44	+40 24.6	1.428	2.099	25.5	19.8	7 10	19 14.51	-30 41.3	2.387	3.396	2.5	20.9
7 20	19 5.40	+39 32.5	1.383	2.071	25.5	19.7	7 20	19 5.65	-31 23.3	2.395	3.383	4.7	21.0
7 30	18 57.35	+37 39.8	1.347	2.043	25.7	19.6	7 30	18 57.49	-31 55.7	2.430	3.370	7.6	21.2
8 9	18 51.58	+34 49.9	1.323	2.017	26.1	19.5	8 9	18 50.79	-32 18.1	2.490	3.357	10.4	21.4
62261	2000 SX ₈₅		7 9.4 165°77	0°7/ 9.6 18			522872	2016 NX ₈₉		7 9.4 319°43	1°9/10.1 16		
5 31	19 44.86	-18 42.5	1.612	2.436	17.1	19.6	5 31	19 39.65	-15 20.5	1.805	2.625	15.8	21.2
6 10	19 40.78	-19 0.2	1.533	2.439	13.6	19.3	6 10	19 36.40	-15 35.5	1.718	2.619	12.7	21.0
6 20	19 33.87	-19 26.9	1.474	2.441	9.5	19.1	6 20	19 30.74	-16 1.3	1.652	2.615	9.0	20.8
6 30	19 24.72	-20 0.2	1.438	2.443	4.8	18.8	6 30	19 23.17	-16 36.8	1.609	2.610	4.9	20.5
7 10	19 14.35	-20 36.5	1.428	2.444	0.7	18.5	7 10	19 14.51	-17 19.4	1.591	2.605	1.9	20.3
7 20	19 3.99	-21 12.1	1.444	2.445	5.2	18.9	7 20	19 5.78	-18 5.7	1.600	2.601	4.9	20.5
7 30	18 54.92	-21 44.4	1.485	2.446	9.8	19.1	7 30	18 58.05	-18 52.5	1.634	2.597	9.0	20.7
8 9	18 48.16	-22 11.7	1.549	2.447	13.9	19.4	8 9	18 52.23	-19 37.1	1.692	2.593	12.8	21.0
400478	2008 GC ₈₂		7 9.4 125°22	1°9/ 8.6 18			233435	2006 HK ₅₈		7 9.4 57°24	2°5/10.2 17		
5 31	19 41.20	-25 54.0	2.417	3.232	12.4	21.7	5 31	19 40.75	-14 41.5	1.755	2.573	16.2	21.0
6 10	19 36.98	-26 30.8	2.336	3.238	9.7	21.5	6 10	19 37.14	-14 44.2	1.683	2.582	13.0	20.9
6 20	19 30.77	-27 9.8	2.278	3.243	6.7	21.3	6 20	19 31.12	-14 57.3	1.630	2.591	9.2	20.6
6 30	19 23.03	-27 47.8	2.245	3.248	3.6	21.2	6 30	19 23.28	-15 19.9	1.600	2.600	5.2	20.4
7 10	19 14.49	-28 21.6	2.240	3.253	1.9	21.0	7 10	19 14.52	-15 50.1	1.597	2.609	2.5	20.3
7 20	19 5.97	-28 48.7	2.263	3.258	4.4	21.2	7 20	19 5.84	-16 24.9	1.619	2.619	5.0	20.5
7 30	18 58.32	-29 7.7	2.314	3.262	7.6	21.4	7 30	18 58.30	-17 1.7	1.667	2.628	8.9	20.7
8 9	18 52.27	-29 18.8	2.389	3.267	10.4	21.6	8 9	18 52.73	-17 37.9	1.738	2.638	12.5	21.0
513102	2017 WF ₂₄		7 9.4 239°07	0°9/ 9.5 17			153731	2001 UC ₁₃₂		7 9.4 173°47	6°6/ 6.5 18		
5 31	19 45.29	-20 15.6	1.920	2.									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
291851	2006 OZ ₅		7 9.4 15°18'	4.2/ 9.2	17		380909	2006 DO ₁₉₅		7 9.4 157°72'	1.1/ 9.1	17	
5 31	19 44.82	-32 17.9	1.033	1.900	21.6	19.3	5 31	19 45.15	-24 39.9	2.095	2.909	14.0	21.4
6 10	19 42.26	-32 1.7	0.976	1.904	17.4	19.1	6 10	19 40.34	-24 50.4	2.013	2.914	11.1	21.2
6 20	19 35.55	-31 38.0	0.935	1.910	12.3	18.8	6 20	19 33.21	-25 2.9	1.953	2.919	7.6	21.0
6 30	19 25.67	-31 1.5	0.914	1.917	7.1	18.5	6 30	19 24.31	-25 14.7	1.918	2.923	3.8	20.8
7 10	19 14.36	-30 9.4	0.913	1.925	4.2	18.4	7 10	19 14.51	-25 23.1	1.911	2.926	1.1	20.6
7 20	19 3.59	-29 2.8	0.935	1.935	7.8	18.6	7 20	19 4.79	-25 26.4	1.931	2.930	4.5	20.9
7 30	18 55.21	-27 46.7	0.979	1.946	12.9	19.0	7 30	18 56.16	-25 24.0	1.978	2.933	8.2	21.1
8 9	18 50.35	-26 27.7	1.042	1.958	17.5	19.3	8 9	18 49.44	-25 16.6	2.050	2.935	11.6	21.3
254262	2004 RM ₁₇₇		7 9.4 302°16'	1.7/ 8.9	18		183379	2002 XL ₄₄		7 9.4 255°40'	0.1/ 9.3	18	
5 31	19 42.02	-27 21.6	2.186	3.006	13.4	20.7	5 31	19 43.31	-20 25.0	1.741	2.565	16.0	21.0
6 10	19 37.95	-27 23.0	2.091	2.995	10.6	20.5	6 10	19 39.59	-20 49.5	1.648	2.554	12.8	20.8
6 20	19 31.62	-27 24.1	2.018	2.984	7.4	20.2	6 20	19 33.15	-21 22.0	1.575	2.543	8.9	20.5
6 30	19 23.54	-27 22.2	1.970	2.973	3.9	20.0	6 30	19 24.48	-21 59.8	1.526	2.531	4.4	20.2
7 10	19 14.52	-27 15.1	1.949	2.963	1.7	19.8	7 10	19 14.49	-22 39.0	1.503	2.519	0.3	19.9
7 20	19 5.50	-27 1.6	1.955	2.952	4.6	20.0	7 20	19 4.30	-23 15.9	1.506	2.507	5.1	20.2
7 30	18 57.45	-26 41.7	1.988	2.942	8.2	20.2	7 30	18 55.20	-23 47.8	1.535	2.495	9.7	20.4
8 9	18 51.19	-26 16.6	2.045	2.932	11.5	20.4	8 9	18 48.24	-24 13.4	1.587	2.482	13.8	20.7
121524	1999 UA ₂₉		7 9.4 304°63'	9.1/ 5.9	18		39160	2000 WC ₁₁₆		7 9.4 106°12'	4.4/ 7.2	18	
5 31	19 46.69	-41 7.0	1.729	2.549	16.3	19.5	5 31	19 44.66	-34 29.9	2.670	3.474	11.6	18.9
6 10	19 43.12	-42 31.5	1.650	2.539	13.8	19.3	6 10	19 39.65	-35 34.1	2.604	3.492	9.4	18.8
6 20	19 36.06	-43 50.5	1.591	2.528	11.3	19.1	6 20	19 32.58	-36 35.7	2.561	3.510	7.0	18.7
6 30	19 26.07	-44 54.8	1.554	2.517	9.4	19.0	6 30	19 23.96	-37 30.1	2.545	3.527	5.0	18.6
7 10	19 14.34	-45 36.1	1.541	2.507	9.3	19.0	7 10	19 14.54	-38 13.1	2.556	3.544	4.5	18.6
7 20	19 2.45	-45 49.5	1.551	2.497	10.9	19.0	7 20	19 5.18	-38 42.3	2.596	3.561	6.0	18.7
7 30	18 52.15	-45 35.0	1.584	2.487	13.5	19.2	7 30	18 56.76	-38 57.2	2.662	3.578	8.1	18.9
8 9	18 44.77	-44 57.3	1.638	2.477	16.2	19.3	8 9	18 50.02	-38 59.3	2.753	3.594	10.3	19.0
264918	2002 TB ₂₇₉		7 9.4 264°32'	3.7/ 8.6	18		6053	1993 BW ₃		7 9.4 310°32'	13.5/ 6.9	18 A	
5 31	19 47.70	-30 26.1	1.761	2.585	15.9	20.4	5 31	20 8.14	-46 4.3	1.333	2.135	21.2	18.1
6 10	19 43.31	-30 47.7	1.663	2.567	12.8	20.1	6 10	20 3.85	-47 1.5	1.199	2.071	19.0	17.7
6 20	19 35.86	-31 8.5	1.585	2.549	9.2	19.8	6 20	19 53.38	-47 51.8	1.081	2.006	16.4	17.4
6 30	19 25.87	-31 23.4	1.531	2.530	5.5	19.6	6 30	19 36.28	-48 17.8	0.981	1.940	14.1	17.0
7 10	19 14.36	-31 27.6	1.502	2.510	3.7	19.4	7 10	19 13.60	-47 57.5	0.903	1.871	13.6	16.7
7 20	19 2.67	-31 18.1	1.499	2.491	6.6	19.6	7 20	18 48.27	-46 31.5	0.846	1.802	16.1	16.6
7 30	18 52.26	-30 54.9	1.522	2.471	10.7	19.8	7 30	18 24.70	-43 54.7	0.812	1.731	21.0	16.6
8 9	18 44.32	-30 20.8	1.568	2.450	14.6	19.9	8 9	18 6.61	-40 21.7	0.797	1.659	26.9	16.6
105924	2000 SH ₂₁₁		7 9.4 255°93'	3.3/ 10.7	18		469316	1999 TG ₁₈₅		7 9.4 291°91'	7.5/ 7.0	18	
5 31	19 38.81	-10 53.3	2.421	3.210	13.1	19.9	5 31	19 48.69	-39 0.6	1.861	2.675	15.5	21.3
6 10	19 35.07	-10 53.3	2.320	3.199	10.7	19.7	6 10	19 44.55	-39 54.8	1.754	2.644	13.1	21.1
6 20	19 29.49	-11 3.3	2.241	3.187	7.9	19.5	6 20	19 37.05	-40 44.8	1.668	2.612	10.4	20.9
6 30	19 22.46	-11 23.4	2.186	3.176	5.1	19.3	6 30	19 26.63	-41 23.0	1.605	2.580	8.1	20.7
7 10	19 14.61	-11 52.7	2.158	3.164	3.3	19.2	7 10	19 14.34	-41 41.7	1.567	2.548	7.6	20.6
7 20	19 6.65	-12 29.4	2.158	3.151	4.7	19.3	7 20	19 1.66	-41 36.1	1.553	2.515	9.5	20.6
7 30	18 59.37	-13 11.3	2.185	3.139	7.6	19.4	7 30	18 50.25	-41 5.9	1.564	2.482	12.6	20.7
8 9	18 53.46	-13 55.8	2.238	3.127	10.6	19.6	8 9	18 41.54	-40 15.1	1.596	2.450	15.9	20.8
406328	2007 QK ₁₂		7 9.4 323°48'	1.9/ 10.3	16		335781	2007 EN ₂₁₈		7 9.4 171°40'	4.0/ 8.6	16	
5 31	19 36.77	-14 9.3	2.488	3.291	12.4	21.2	5 31	19 39.72	-29 23.1	1.231	2.093	19.1	20.8
6 10	19 33.42	-14 25.3	2.394	3.284	10.0	21.0	6 10	19 37.79	-29 46.4	1.164	2.091	15.3	20.6
6 20	19 28.31	-14 49.9	2.322	3.278	7.1	20.8	6 20	19 32.38	-30 9.4	1.115	2.090	10.8	20.3
6 30	19 21.86	-15 22.3	2.275	3.273	4.1	20.6	6 30	19 24.18	-30 26.5	1.087	2.090	6.2	20.1
7 10	19 14.65	-16 0.9	2.254	3.267	1.9	20.5	7 10	19 14.53	-30 32.4	1.080	2.091	4.0	19.9
7 20	19 7.39	-16 43.3	2.262	3.261	3.9	20.6	7 20	19 5.03	-30 24.3	1.097	2.094	7.4	20.1
7 30	19 0.80	-17 27.2	2.298	3.256	7.0	20.8	7 30	18 57.32	-30 2.4	1.136	2.098	12.0	20.4
8 9	18 55.54	-18 10.5	2.358	3.251	10.0	21.0	8 9	18 52.57	-29 30.0	1.195	2.104	16.3	20.7
344464	2002 NK ₇₆		7 9.4 335°27'	2.7/ 10.1	18		21187	Setsuo		7 9.4 92°00'	7.7/ 6.9	18	
5 31	19 40.96	-15 35.1	1.871	2.686	15.5	21.1	5 31	19 49.96	-36 31.2	1.537	2.365	17.6	18.0
6 10	19 37.24	-15 15.3	1.787	2.685	12.4	20.8	6 10	19 45.54	-37 56.6	1.478	2.377	14.4	17.8
6 20	19 31.20	-15 3.2	1.724	2.683	8.9	20.6	6 20	19 37.54	-39 17.8	1.438	2.389	11.1	17.7
6 30	19 23.36	-14 58.7	1.683	2.682	5.2	20.4	6 30	19 26.69	-40 25.5	1.421	2.401	8.4	17.5
7 10	19 14.56	-15 1.1	1.669	2.681	2.7	20.2	7 10	19 14.36	-41 11.4	1.429	2.413	7.9	17.5
7 20	19 5.77	-15 9.1	1.681	2.679	5.1	20.4	7 20	19 2.22	-41 31.0	1.461	2.424	9.8	17.7
7 30	18 58.03	-15 21.4	1.719	2.678	8.9	20.6	7 30	18 51.94	-41 25.2	1.516	2.436	12.8	17.9
8 9	18 52.15	-15 36.3	1.781	2.678	12.4	20.8	8 9	18 44.74	-40 58.9	1.591	2.447	15.8	18.1
507207	2010 UQ ₄₅		7 9.4 329°95'	3.1/ 9.7	17		378317	2007 FA ₅₀		7 9.4 78°62'	3.5/ 10.7	17	
5 31	19 40.53	-18 34.9	1.223	2.075	19.9	21.1	5 31	19 41.62	-11 30.9	1.712	2.521	16.9	20.8
6 10	19 38.28	-17 50.1	1.143	2.063	16.1	20.8	6 10	19 37.87	-11 39.5	1.641	2.532	13.7	20.6
6 20	19 32.69	-17 10.5	1.079	2.051	11.5	20.5	6 20	19 31.67	-12 1.9	1.588	2.543	10.0	20.4
6 30	19 24.37	-16 37.0	1.037	2.040	6.4	20.2	6 30	19 23.60	-12 37.4	1.559	2.554	6.1	20.2
7 10	19 14.48	-16 10.1	1.016	2.030	3.1	20.0	7 10	19 14.57	-13 23.7	1.556	2.565	3.5	20.0
7 20	19 4.51	-15 49.8	1.019	2.021	6.8	20.2	7 20	19 5.63	-14 17.3	1.578	2.576	5.5	20.2
7 30	18 56.07	-15 36.2	1.044	2.013	12.0	20.4	7 30	18 57.84	-15 14.1	1.626	2.587	9.2	20.4
8 9	18 50.42	-15 28.6	1.089	2.005	16.9	20.7	8 9	18 52.05	-16 10.5	1.698	2.597	12.8	20.7
316777	1999 TB ₁₃₇		7 9.4 275°57'	1.7/ 9.9	18		428746	2008 SQ ₄		7 9.4 328°00'	10.4/ 5.9	16	
5 31	19 39.42												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
111445	2001 <i>XJ</i> ₂₃₈		7 9.4 272°05	2.2/ 8.5	18		123508	2000 <i>WU</i> ₁₈₂		7 9.4 293°39	0.4/ 9.2	18	
5 31	19 41.77	-26 53.5	2.259	3.077	13.0	20.1	5 31	19 41.28	-18 37.0	1.694	2.521	16.3	19.4
6 10	19 37.83	-27 26.1	2.159	3.062	10.4	19.9	6 10	19 38.28	-19 31.3	1.591	2.499	13.1	19.2
6 20	19 31.63	-28 0.9	2.081	3.047	7.2	19.6	6 20	19 32.50	-20 39.2	1.508	2.476	9.1	18.9
6 30	19 23.63	-28 34.6	2.029	3.031	4.0	19.4	6 30	19 24.33	-21 57.5	1.449	2.454	4.6	18.6
7 10	19 14.58	-29 3.5	2.004	3.015	2.3	19.3	7 10	19 14.57	-23 20.9	1.415	2.432	0.6	18.2
7 20	19 5.38	-29 24.9	2.006	3.000	5.0	19.4	7 20	19 4.38	-24 43.0	1.408	2.409	5.5	18.5
7 30	18 57.04	-29 37.2	2.035	2.984	8.4	19.6	7 30	18 55.08	-25 58.2	1.428	2.387	10.3	18.7
8 9	18 50.41	-29 40.8	2.088	2.968	11.6	19.8	8 9	18 47.91	-27 3.1	1.469	2.365	14.6	18.9
1008	La Paz		7 9.4 258°21	4.2/ 7.8	18		202648	2006 <i>JK</i> ₄₂		7 9.4 172°19	6.3/ 11.4	18	
5 31	19 43.05	-33 18.8	2.369	3.183	12.6	15.7	5 31	19 41.59	-4 9.2	2.332	3.092	14.4	20.9
6 10	19 38.77	-33 59.1	2.280	3.176	10.2	15.6	6 10	19 37.16	-3 25.2	2.247	3.095	12.1	20.7
6 20	19 32.22	-34 37.4	2.214	3.170	7.5	15.4	6 20	19 30.86	-2 53.0	2.182	3.097	9.7	20.6
6 30	19 23.88	-35 9.3	2.172	3.163	5.0	15.2	6 30	19 23.14	-2 34.9	2.140	3.099	7.5	20.5
7 10	19 14.57	-35 31.0	2.158	3.156	4.2	15.1	7 10	19 14.68	-2 31.8	2.125	3.101	6.4	20.4
7 20	19 5.22	-35 39.9	2.170	3.149	6.0	15.2	7 20	19 6.22	-2 43.4	2.136	3.102	7.0	20.4
7 30	18 56.84	-35 35.7	2.209	3.142	8.7	15.4	7 30	18 58.57	-3 8.1	2.173	3.102	9.0	20.6
8 9	18 50.26	-35 19.9	2.272	3.134	11.5	15.6	8 9	18 52.38	-3 42.9	2.235	3.102	11.4	20.7
215883	2005 <i>EJ</i> ₂₉₅		7 9.4 11°42	5.5/ 10.7	17		115034	2003 <i>QH</i> ₁₀₅		7 9.4 329°34	5.1/ 11.6	16	
5 31	19 38.69	-11 53.1	1.195	2.038	20.8	19.8	5 31	19 37.82	-7 19.1	1.628	2.436	17.7	19.3
6 10	19 36.58	-11 16.2	1.130	2.040	17.0	19.5	6 10	19 35.25	-7 30.6	1.540	2.426	14.7	19.1
6 20	19 31.34	-10 54.1	1.081	2.043	12.7	19.3	6 20	19 30.16	-8 1.2	1.470	2.417	11.2	18.8
6 30	19 23.62	-10 48.9	1.051	2.046	8.2	19.0	6 30	19 23.03	-8 51.8	1.421	2.408	7.5	18.6
7 10	19 14.59	-11 0.6	1.044	2.050	5.6	18.9	7 10	19 14.68	-10 0.6	1.397	2.400	5.2	18.5
7 20	19 5.66	-11 27.0	1.059	2.056	7.6	19.0	7 20	19 6.16	-11 23.4	1.398	2.393	6.5	18.5
7 30	18 58.26	-12 4.4	1.096	2.062	11.9	19.3	7 30	18 58.64	-12 54.5	1.424	2.386	10.1	18.7
8 9	18 53.50	-12 48.0	1.153	2.069	16.2	19.6	8 9	18 53.12	-14 27.6	1.473	2.379	14.0	18.9
350573	2001 <i>BT</i> ₇₅		7 9.4 85°23	7.9/ 14.7	17		238988	2006 <i>BV</i> ₂₃₈		7 9.4 270°07	3.3/ 10.6	18	
5 31	19 38.78	+ 6 3.1	2.502	3.210	14.7	20.4	5 31	19 40.92	-11 59.8	1.827	2.634	16.1	21.1
6 10	19 34.77	+ 6 6.9	2.426	3.223	12.9	20.3	6 10	19 37.49	-12 8.4	1.729	2.620	13.1	20.8
6 20	19 29.10	+ 5 51.9	2.368	3.236	11.0	20.2	6 20	19 31.61	-12 30.2	1.652	2.607	9.6	20.6
6 30	19 22.20	+ 5 16.3	2.332	3.249	9.2	20.1	6 30	19 23.73	-13 5.1	1.597	2.592	5.8	20.3
7 10	19 14.70	+ 4 20.3	2.321	3.262	8.0	20.1	7 10	19 14.63	-13 51.4	1.568	2.578	3.3	20.2
7 20	19 7.25	+ 3 5.9	2.337	3.276	8.1	20.1	7 20	19 5.32	-14 45.8	1.566	2.564	5.5	20.3
7 30	19 0.55	+ 1 36.9	2.378	3.289	9.2	20.2	7 30	18 56.92	-15 44.7	1.589	2.550	9.4	20.5
8 9	18 55.18	- 0 1.6	2.445	3.301	11.0	20.3	8 9	18 50.40	-16 44.1	1.637	2.535	13.2	20.7
74903	1999 <i>TT</i> ₁₂₄		7 9.4 348°09	4.0/ 8.9	18		224885	2007 <i>BH</i> ₈₀		7 9.4 243°93	0.5/ 9.5	18	
5 31	19 43.73	-30 20.3	1.222	2.079	19.6	18.9	5 31	19 44.02	-19 48.7	1.903	2.719	15.2	22.1
6 10	19 41.10	-30 29.9	1.150	2.073	15.7	18.6	6 10	19 39.90	-19 59.8	1.806	2.707	12.1	21.9
6 20	19 34.76	-30 37.0	1.096	2.068	11.2	18.4	6 20	19 33.24	-20 17.6	1.729	2.694	8.5	21.6
6 30	19 25.41	-30 36.2	1.062	2.064	6.4	18.1	6 30	19 24.52	-20 40.1	1.676	2.680	4.3	21.3
7 10	19 14.47	-30 22.5	1.050	2.061	4.0	17.9	7 10	19 14.59	-21 4.5	1.650	2.666	0.5	21.0
7 20	19 3.67	-29 54.0	1.061	2.059	7.5	18.1	7 20	19 4.48	-21 28.3	1.651	2.652	4.8	21.3
7 30	18 54.77	-29 12.2	1.095	2.057	12.4	18.4	7 30	18 55.36	-21 49.3	1.678	2.637	9.1	21.5
8 9	18 49.04	-28 21.7	1.149	2.057	16.9	18.7	8 9	18 48.20	-22 6.7	1.729	2.622	13.0	21.7
249214	2008 <i>EC</i>		7 9.4 271°07	1.3/ 8.9	18		123731	2001 <i>AH</i> ₈		7 9.4 221°38	0.5/ 9.5	18	
5 31	19 42.07	-25 40.4	2.240	3.058	13.2	20.7	5 31	19 42.73	-22 9.5	2.453	3.260	12.5	20.4
6 10	19 37.95	-25 49.7	2.144	3.047	10.4	20.5	6 10	19 38.07	-21 48.4	2.361	3.258	9.9	20.2
6 20	19 31.63	-26 0.2	2.069	3.035	7.2	20.3	6 20	19 31.49	-21 28.6	2.292	3.255	6.8	20.0
6 30	19 23.59	-26 9.5	2.020	3.024	3.7	20.1	6 30	19 23.46	-21 9.2	2.248	3.252	3.4	19.8
7 10	19 14.60	-26 15.2	1.998	3.013	1.4	19.9	7 10	19 14.69	-20 49.6	2.232	3.249	0.5	19.5
7 20	19 5.56	-26 15.5	2.003	3.001	4.5	20.1	7 20	19 5.99	-20 29.3	2.245	3.246	3.8	19.8
7 30	18 57.42	-26 9.9	2.035	2.989	8.1	20.3	7 30	18 58.15	-20 8.6	2.286	3.243	7.2	20.0
8 9	18 51.01	-25 59.0	2.092	2.978	11.3	20.5	8 9	18 51.85	-19 47.8	2.352	3.239	10.2	20.2
191747	2004 <i>SV</i> ₂₉		7 9.4 27°25	7.9/ 7.7	18		515846	2015 <i>OK</i> ₃₁		7 9.4 312°53	6.1/ 7.7	18	
5 31	19 46.05	-37 48.9	1.423	2.262	18.3	19.3	5 31	19 44.18	-37 18.8	1.982	2.802	14.5	21.2
6 10	19 42.65	-38 48.5	1.363	2.269	15.0	19.1	6 10	19 40.41	-37 55.8	1.887	2.782	12.0	21.0
6 20	19 35.62	-39 41.3	1.322	2.276	11.6	18.9	6 20	19 33.78	-38 27.9	1.812	2.763	9.2	20.8
6 30	19 25.74	-40 18.7	1.303	2.285	8.8	18.8	6 30	19 24.85	-38 49.2	1.761	2.744	6.8	20.6
7 10	19 14.46	-40 33.6	1.306	2.294	8.0	18.7	7 10	19 14.60	-38 54.6	1.735	2.725	6.2	20.6
7 20	19 3.48	-40 23.1	1.333	2.303	9.9	18.9	7 20	19 4.24	-38 41.3	1.734	2.706	7.9	20.6
7 30	18 54.47	-39 49.1	1.382	2.314	13.0	19.1	7 30	18 55.12	-38 9.6	1.759	2.688	10.8	20.8
8 9	18 48.58	-38 57.4	1.452	2.325	16.2	19.3	8 9	18 48.29	-37 22.8	1.805	2.670	13.8	20.9
17448	1990 <i>HU</i> ₁		7 9.4 19°20	5.3/ 11.7	18		290905	2005 <i>WJ</i> ₁₀₀		7 9.4 311°22	4.3/ 10.4	18	
5 31	19 39.98	- 6 39.8	1.718	2.515	17.4	18.1	5 31	19 38.96	-11 51.1	2.101	2.902	14.5	20.4
6 10	19 36.68	- 6 47.2	1.637	2.516	14.4	17.9	6 10	19 35.48	-11 13.1	2.005	2.891	11.9	20.2
6 20	19 30.96	- 7 12.7	1.575	2.517	11.0	17.7	6 20	19 29.94	-10 43.0	1.931	2.879	8.9	20.0
6 30	19 23.32	- 7 56.8	1.534	2.518	7.5	17.5	6 30	19 22.79	-10 22.1	1.880	2.868	5.9	19.8
7 10	19 14.62	- 8 58.0	1.519	2.519	5.3	17.4	7 10	19 14.74	-10 11.1	1.856	2.858	4.3	19.7
7 20	19 5.88	-10 12.4	1.529	2.520	6.5	17.4	7 20	19 6.63	-10 9.7	1.857	2.847	5.7	19.8
7 30	18 58.17	-11 34.7	1.565	2.522	9.8	17.6	7 30	18 59.35	-10 17.0	1.885	2.837	8.7	19.9
8 9	18 52.39	-12 59.5	1.624	2.523	13.3	17.8	8 9	18 53.66	-10 31.2	1.937	2.827	11.9	20.1
371448	2006 <i>SU</i> ₂₉₆		7 9.4 248°88	4.3/ 8.3	17		17036	Krugly		7 9.4 131°17	1.4/ 9.8	18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
305541	2008 <i>HN</i> ₂₀		7 9.4 111°79	4°8/11.2 16			31732	1999 <i>JB</i> ₇₁		7 9.4 23°08	8°5/ 5.8 18		
5 31	19 39.51	- 6 58.7	2.537	3.308	13.1	21.7	5 31	19 43.75	-34 37.7	1.375	2.222	18.3	16.8
6 10	19 35.32	- 6 30.1	2.459	3.319	10.8	21.5	6 10	19 41.16	-36 38.6	1.316	2.228	15.0	16.6
6 20	19 29.48	- 6 11.7	2.403	3.331	8.4	21.4	6 20	19 34.92	-38 39.3	1.277	2.235	11.5	16.4
6 30	19 22.43	- 6 4.6	2.371	3.343	6.1	21.3	6 30	19 25.63	-40 28.5	1.261	2.243	9.0	16.3
7 10	19 14.79	- 6 9.0	2.365	3.354	4.8	21.2	7 10	19 14.60	-41 55.3	1.268	2.251	8.8	16.3
7 20	19 7.21	- 6 24.0	2.387	3.365	5.6	21.3	7 20	19 3.53	-42 52.5	1.298	2.260	10.9	16.4
7 30	19 0.39	- 6 48.0	2.436	3.376	7.7	21.4	7 30	18 54.25	-43 19.1	1.350	2.270	14.1	16.6
8 9	18 54.90	- 7 18.7	2.510	3.386	10.0	21.6	8 9	18 48.11	-43 19.2	1.421	2.280	17.2	16.9
241097	2007 <i>DU</i> ₁₁₂		7 9.4 19°24	0°7/11.6 10 C			435328	2007 <i>VW</i> ₂₃		7 9.4 358°76	7°4/11.3 16		
5 31	19 20.38	- 6 7.4	22.362	23.108	1.7	24.9	5 31	19 36.09	- 7 9.8	1.450	2.269	19.0	20.6
6 10	19 19.25	- 6 5.8	22.297	23.139	1.4	24.9	6 10	19 34.03	- 6 19.4	1.376	2.266	15.9	20.3
6 20	19 17.97	- 6 5.6	22.255	23.170	1.1	24.8	6 20	19 29.36	- 5 44.5	1.319	2.264	12.5	20.1
6 30	19 16.59	- 6 6.7	22.240	23.200	0.8	24.8	6 30	19 22.63	- 5 28.6	1.283	2.263	9.2	19.9
7 10	19 15.17	- 6 9.1	22.252	23.231	0.7	24.8	7 10	19 14.80	- 5 33.3	1.270	2.262	7.4	19.8
7 20	19 13.75	- 6 12.7	22.293	23.261	0.8	24.8	7 20	19 6.97	- 5 57.6	1.279	2.263	8.5	19.9
7 30	19 12.39	- 6 17.4	22.362	23.292	1.0	24.8	7 30	19 0.33	- 6 38.3	1.311	2.265	11.5	20.1
8 9	19 11.15	- 6 22.9	22.457	23.323	1.3	24.9	8 9	18 55.82	- 7 30.4	1.364	2.269	15.0	20.3
262839	2007 <i>BF</i> ₅		7 9.4 185°36	1°8/10.0 18			519710	2013 <i>BP</i> ₂₂		7 9.4 235°14	5°4/11.7 18		
5 31	19 43.41	-15 49.7	1.881	2.691	15.6	21.1	5 31	19 39.32	- 4 48.7	2.410	3.176	13.8	21.1
6 10	19 39.26	-16 3.7	1.796	2.692	12.5	20.9	6 10	19 35.48	- 4 34.8	2.312	3.167	11.6	20.9
6 20	19 32.69	-16 27.6	1.731	2.691	8.8	20.6	6 20	19 29.81	- 4 33.6	2.234	3.158	9.2	20.8
6 30	19 24.21	-16 59.9	1.690	2.691	4.8	20.4	6 30	19 22.71	- 4 46.6	2.180	3.148	6.8	20.6
7 10	19 14.67	-17 38.0	1.675	2.690	1.8	20.2	7 10	19 14.81	- 5 13.7	2.152	3.138	5.4	20.5
7 20	19 5.08	-18 18.8	1.688	2.688	4.8	20.4	7 20	19 6.80	- 5 53.7	2.151	3.128	6.2	20.5
7 30	18 56.53	-18 59.5	1.727	2.687	8.8	20.6	7 30	18 59.48	- 6 44.2	2.177	3.118	8.4	20.6
8 9	18 49.90	-19 37.8	1.790	2.685	12.5	20.9	8 9	18 53.52	- 7 41.6	2.227	3.107	11.0	20.8
155421	1996 <i>VT</i> ₂₂		7 9.4 315°65	10°1/11.2 16			301641	2010 <i>EV</i> ₈₂		7 9.4 8°06	7°4/ 7.7 16		
5 31	19 37.76	- 2 26.3	1.542	2.336	19.1	20.5	5 31	19 39.36	-35 24.6	1.267	2.126	18.9	19.0
6 10	19 35.38	- 1 9.1	1.451	2.317	16.6	20.2	6 10	19 37.70	-36 23.0	1.208	2.128	15.4	18.8
6 20	19 30.38	- 0 7.2	1.377	2.298	13.9	20.0	6 20	19 32.42	-37 16.6	1.167	2.132	11.6	18.6
6 30	19 23.21	+ 0 33.6	1.324	2.280	11.4	19.8	6 30	19 24.29	-37 57.0	1.147	2.137	8.4	18.4
7 10	19 14.73	+ 0 49.3	1.292	2.262	10.1	19.7	7 10	19 14.70	-38 16.9	1.148	2.144	7.5	18.4
7 20	19 6.01	+ 0 38.2	1.282	2.245	11.0	19.7	7 20	19 5.35	-38 13.0	1.172	2.152	9.7	18.5
7 30	18 58.28	+ 0 2.0	1.295	2.229	13.4	19.8	7 30	18 57.89	-37 46.3	1.217	2.162	13.2	18.8
8 9	18 52.62	- 0 54.3	1.327	2.213	16.5	19.9	8 9	18 53.49	-37 1.9	1.282	2.173	16.7	19.0
85556	1997 <i>YV</i> ₁₆		7 9.4 282°35	1°0/ 9.1 18			442384	2011 <i>UA</i> ₁₉		7 9.4 110°38	1°0/ 9.0 18		
5 31	19 43.57	-24 0.0	1.738	2.567	15.9	19.4	5 31	19 41.82	-23 10.2	2.292	3.107	13.0	21.5
6 10	19 39.95	-24 10.4	1.639	2.548	12.7	19.2	6 10	19 37.56	-23 41.1	2.215	3.116	10.2	21.4
6 20	19 33.53	-24 24.6	1.560	2.529	8.8	18.9	6 20	19 31.26	-24 15.8	2.160	3.125	7.0	21.2
6 30	19 24.78	-24 39.6	1.505	2.510	4.5	18.6	6 30	19 23.41	-24 51.4	2.130	3.134	3.5	21.0
7 10	19 14.63	-24 52.1	1.475	2.491	1.1	18.3	7 10	19 14.77	-25 24.8	2.128	3.143	1.0	20.8
7 20	19 4.27	-24 59.4	1.472	2.472	5.4	18.5	7 20	19 6.17	-25 53.6	2.153	3.152	4.2	21.0
7 30	18 55.01	-25 0.2	1.493	2.453	9.9	18.8	7 30	18 58.50	-26 16.2	2.207	3.160	7.6	21.3
8 9	18 47.96	-24 54.9	1.538	2.434	14.1	19.0	8 9	18 52.48	-26 32.3	2.285	3.169	10.6	21.5
278765	2008 <i>SW</i> ₁₄₃		7 9.4 359°63	3°5/10.3 17			423693	2006 <i>AG</i> ₂₆		7 9.4 142°38	0°5/ 9.2 17		
5 31	19 37.52	-14 46.1	1.368	2.209	18.7	20.3	5 31	19 44.26	-21 3.5	2.084	2.896	14.2	21.6
6 10	19 35.41	-14 27.3	1.294	2.207	15.1	20.0	6 10	19 39.69	-21 38.3	2.006	2.905	11.2	21.4
6 20	19 30.43	-14 20.1	1.239	2.205	10.9	19.8	6 20	19 32.84	-22 19.1	1.948	2.913	7.7	21.2
6 30	19 23.19	-14 24.8	1.204	2.204	6.4	19.5	6 30	19 24.24	-23 2.9	1.916	2.921	3.8	21.0
7 10	19 14.74	-14 40.3	1.193	2.205	3.5	19.3	7 10	19 14.72	-23 46.0	1.912	2.928	0.6	20.7
7 20	19 6.31	-15 4.3	1.205	2.206	6.2	19.5	7 20	19 5.21	-24 25.2	1.935	2.935	4.4	21.1
7 30	18 59.20	-15 33.9	1.241	2.208	10.6	19.8	7 30	18 56.73	-24 58.4	1.986	2.941	8.2	21.3
8 9	18 54.47	-16 5.9	1.298	2.212	14.9	20.0	8 9	18 50.08	-25 24.8	2.062	2.947	11.5	21.5
198051	2004 <i>RS</i> ₂₉₈		7 9.4 65°10	5°2/11.2 17			351205	2004 <i>FE</i> ₁₃₆		7 9.4 359°55	0°3/ 9.3 17		
5 31	19 41.48	- 9 0.8	1.640	2.445	17.7	20.1	5 31	19 40.00	-19 49.0	2.001	2.823	14.4	20.9
6 10	19 37.79	- 8 43.3	1.574	2.460	14.5	20.0	6 10	19 36.53	-20 29.2	1.917	2.822	11.4	20.7
6 20	19 31.64	- 8 40.5	1.527	2.474	10.9	19.8	6 20	19 30.80	-21 17.5	1.855	2.822	7.8	20.4
6 30	19 23.63	- 8 53.4	1.503	2.489	7.3	19.6	6 30	19 23.29	-22 10.9	1.817	2.822	3.9	20.2
7 10	19 14.72	- 9 21.0	1.502	2.503	5.2	19.5	7 10	19 14.78	-23 5.5	1.805	2.822	0.4	19.9
7 20	19 5.96	-10 0.7	1.527	2.518	6.6	19.6	7 20	19 6.22	-23 57.5	1.821	2.822	4.5	20.2
7 30	18 58.41	-10 48.8	1.577	2.533	9.8	19.8	7 30	18 58.59	-24 43.9	1.864	2.822	8.3	20.5
8 9	18 52.92	-11 41.2	1.650	2.548	13.2	20.1	8 9	18 52.76	-25 23.1	1.930	2.823	11.8	20.7
28477	2000 <i>CB</i> ₄		7 9.4 43°37	4°7/11.7 18			40156	1998 <i>QH</i> ₈₆		7 9.4 260°51	6°9/11.9 18		
5 31	19 39.23	- 6 56.6	1.832	2.626	16.5	18.2	5 31	19 37.81	- 1 12.6	2.506	3.256	13.7	19.1
6 10	19 35.88	- 7 11.6	1.756	2.634	13.6	18.0	6 10	19 34.17	+ 0 28.1	2.414	3.250	11.8	19.0
6 20	19 30.29	- 7 43.6	1.700	2.642	10.3	17.8	6 20	19 28.83	+ 0 3.8	2.343	3.244	9.7	18.8
6 30	19 22.97	- 8 32.6	1.666	2.651	6.9	17.6	6 30	19 22.20	+ 0 20.8	2.294	3.239	7.9	18.7
7 10	19 14.76	- 9 36.6	1.658	2.659	4.8	17.5	7 10	19 14.86	+ 0 21.6	2.271	3.233	6.9	18.6
7 20	19 6.57	-10 51.5	1.676	2.668	6.0	17.6	7 20	19 7.47	+ 0 6.3	2.273	3.227	7.4	18.7
7 30	18 59.37	-12 12.5	1.721	2.678	9.0	17.8	7 30	19 0.75	- 0 23.5	2.301	3.221	9.0	18.8
8 9	18 53.98	-13 34.4	1.789	2.687	12.3	18.0	8 9	18 55.31	- 1 4.9	2.353	3.215	11.1	18.9
515411	2013 <i>HO</i> ₃₃		7 9.4 285°47	8°8/ 5.7 18			170400	2003					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
507620	2013 <i>FP</i> ₁		7 9.4 117°11	5°6/ 6.6 18			413406	2004 <i>TU</i> ₈₁		7 9.4 216°50	3°7/ 8.5 17		
5 31	19 44.61	-36 43.6	2.472	3.278	12.4	21.5	5 31	19 48.92	-29 19.0	1.602	2.430	17.0	21.7
6 10	19 40.04	-37 57.2	2.399	3.285	10.1	21.3	6 10	19 44.47	-29 51.0	1.518	2.425	13.7	21.4
6 20	19 33.14	-39 7.5	2.349	3.292	7.8	21.2	6 20	19 36.77	-30 23.6	1.455	2.420	9.7	21.2
6 30	19 24.43	-40 9.2	2.324	3.299	6.0	21.1	6 30	19 26.44	-30 51.2	1.414	2.415	5.6	20.9
7 10	19 14.72	-40 57.2	2.327	3.306	5.7	21.1	7 10	19 14.63	-31 8.4	1.399	2.408	3.8	20.8
7 20	19 4.98	-41 28.6	2.356	3.312	7.1	21.2	7 20	19 2.78	-31 11.6	1.409	2.402	6.8	21.0
7 30	18 56.23	-41 42.7	2.411	3.318	9.2	21.3	7 30	18 52.42	-31 0.6	1.445	2.395	11.0	21.2
8 9	18 49.33	-41 41.3	2.490	3.325	11.5	21.5	8 9	18 44.75	-30 37.9	1.502	2.387	15.0	21.4
345920	2007 <i>RH</i> ₁₈₄		7 9.4 203°97	1°4/ 9.8 17			463456	2013 <i>PV</i> ₃		7 9.4 25°02	2°4/ 9.1 17		
5 31	19 42.29	-17 55.3	2.253	3.059	13.5	21.8	5 31	19 44.14	-27 25.4	1.208	2.064	19.8	20.7
6 10	19 37.96	-17 49.0	2.162	3.056	10.8	21.6	6 10	19 41.15	-27 26.0	1.147	2.071	15.7	20.4
6 20	19 31.57	-17 48.1	2.092	3.053	7.6	21.4	6 20	19 34.61	-27 26.6	1.104	2.078	10.9	20.2
6 30	19 23.60	-17 51.9	2.048	3.049	4.0	21.1	6 30	19 25.32	-27 22.9	1.081	2.086	5.7	19.9
7 10	19 14.78	-17 59.0	2.030	3.045	1.4	20.9	7 10	19 14.71	-27 11.4	1.081	2.096	2.4	19.7
7 20	19 5.94	-18 8.1	2.041	3.041	4.2	21.1	7 20	19 4.43	-26 50.4	1.105	2.106	6.6	20.0
7 30	18 57.98	-18 17.9	2.079	3.037	7.7	21.4	7 30	18 56.08	-26 21.3	1.151	2.116	11.6	20.3
8 9	18 51.62	-18 27.7	2.142	3.032	10.9	21.5	8 9	18 50.76	-25 46.7	1.218	2.128	16.0	20.6
507132	2009 <i>UG</i> ₁₅₉		7 9.4 205°57	1°2/ 9.7 17			474519	2003 <i>US</i> ₂₃₀		7 9.4 310°14	3°8/ 9.9 17		
5 31	19 43.36	-18 39.5	1.820	2.638	15.7	22.4	5 31	19 40.31	-15 20.2	1.616	2.442	17.0	21.2
6 10	19 39.33	-18 38.6	1.735	2.637	12.5	22.1	6 10	19 37.61	-14 42.3	1.504	2.407	14.0	20.9
6 20	19 32.80	-18 44.3	1.671	2.635	8.8	21.9	6 20	19 32.13	-14 10.8	1.411	2.373	10.3	20.6
6 30	19 24.30	-18 55.5	1.630	2.633	4.6	21.7	6 30	19 24.24	-13 47.0	1.340	2.338	6.3	20.3
7 10	19 14.74	-19 9.9	1.615	2.631	1.2	21.4	7 10	19 14.76	-13 31.4	1.293	2.303	3.8	20.0
7 20	19 5.16	-19 25.6	1.628	2.629	4.8	21.7	7 20	19 4.83	-13 24.3	1.271	2.269	6.5	20.1
7 30	18 56.69	-19 40.8	1.666	2.626	9.0	21.9	7 30	18 55.79	-13 25.0	1.273	2.235	11.1	20.3
8 9	18 50.24	-19 54.6	1.727	2.624	12.8	22.1	8 9	18 48.86	-13 32.4	1.297	2.202	15.6	20.4
158417	2002 <i>AC</i> ₁₀₆		7 9.4 85°90	0°3/ 9.3 17			283877	2003 <i>YV</i> ₄₃		7 9.4 285°28	1°5/ 9.4 18		
5 31	19 43.62	-21 8.1	1.754	2.579	15.9	19.7	5 31	19 50.71	-29 19.2	1.973	2.784	14.9	20.0
6 10	19 39.56	-21 32.1	1.683	2.590	12.6	19.5	6 10	19 45.16	-28 43.1	1.867	2.764	12.0	19.8
6 20	19 32.92	-22 2.3	1.633	2.601	8.6	19.3	6 20	19 36.84	-28 1.3	1.782	2.745	8.4	19.5
6 30	19 24.33	-22 35.8	1.607	2.612	4.3	19.1	6 30	19 26.34	-27 11.4	1.722	2.725	4.4	19.2
7 10	19 14.74	-23 9.0	1.606	2.623	0.4	18.8	7 10	19 14.65	-26 12.1	1.690	2.705	1.5	19.0
7 20	19 5.27	-23 38.6	1.632	2.633	4.8	19.2	7 20	19 2.96	-25 4.2	1.686	2.685	5.0	19.2
7 30	18 57.04	-24 2.7	1.684	2.644	9.0	19.4	7 30	18 52.52	-23 50.5	1.710	2.665	9.3	19.4
8 9	18 50.93	-24 20.6	1.760	2.655	12.7	19.7	8 9	18 44.32	-22 35.0	1.760	2.645	13.1	19.6
478067	2011 <i>UR</i> ₆		7 9.4 292°60	1°4/ 8.9 18			22439	1996 <i>HL</i> ₂₀		7 9.4 102°46	0°6/ 9.2 18		
5 31	19 41.24	-24 50.0	2.083	2.906	13.8	21.7	5 31	19 40.92	-23 8.3	2.511	3.322	12.1	19.0
6 10	19 37.51	-25 11.4	1.992	2.897	11.0	21.5	6 10	19 36.64	-23 26.7	2.434	3.333	9.5	18.9
6 20	19 31.49	-25 35.7	1.922	2.889	7.6	21.3	6 20	19 30.51	-23 47.9	2.379	3.344	6.5	18.7
6 30	19 23.64	-26 0.1	1.876	2.881	3.9	21.0	6 30	19 23.02	-24 9.8	2.350	3.354	3.2	18.5
7 10	19 14.79	-26 21.4	1.857	2.872	1.5	20.8	7 10	19 14.86	-24 30.0	2.349	3.365	0.7	18.3
7 20	19 5.86	-26 37.2	1.866	2.864	4.7	21.0	7 20	19 6.77	-24 46.8	2.376	3.376	3.7	18.6
7 30	18 57.90	-26 46.2	1.901	2.856	8.4	21.3	7 30	18 59.53	-24 59.1	2.431	3.386	6.9	18.8
8 9	18 51.74	-26 48.4	1.959	2.848	11.8	21.5	8 9	18 53.77	-25 6.8	2.512	3.396	9.7	19.0
83467	2001 <i>SE</i> ₇₅		7 9.4 50°16	0°2/ 9.5 18			159642	2002 <i>CN</i> ₁₂₉		7 9.4 59°12	5°8/ 11.7 18		
5 31	19 42.03	-21 50.9	2.045	2.864	14.2	19.4	5 31	19 40.21	-6 13.9	1.778	2.570	17.0	20.2
6 10	19 37.96	-21 46.3	1.963	2.866	11.2	19.2	6 10	19 36.78	-6 4.2	1.698	2.572	14.2	20.0
6 20	19 31.65	-21 45.0	1.903	2.869	7.7	19.0	6 20	19 31.01	-6 11.0	1.637	2.574	11.0	19.8
6 30	19 23.65	-21 45.4	1.867	2.872	3.9	18.8	6 30	19 23.42	-6 35.6	1.598	2.576	7.8	19.6
7 10	19 14.80	-21 45.9	1.858	2.874	0.3	18.5	7 10	19 14.83	-7 17.2	1.583	2.579	5.8	19.5
7 20	19 6.01	-21 45.0	1.876	2.877	4.3	18.8	7 20	19 6.23	-8 13.1	1.594	2.581	6.9	19.6
7 30	18 58.27	-21 42.1	1.921	2.880	8.1	19.1	7 30	18 58.64	-9 19.3	1.631	2.583	9.8	19.8
8 9	18 52.33	-21 37.2	1.989	2.883	11.5	19.3	8 9	18 52.92	-10 30.8	1.690	2.586	13.1	20.0
321802	2010 <i>PA</i> ₇₁		7 9.4 310°01	0°8/ 8.9 18			65329	2002 <i>LX</i> ₃₁		7 9.4 348°75	0°9/ 9.6 18		
5 31	19 40.64	-18 21.3	2.011	2.828	14.5	19.8	5 31	19 38.56	-21 6.7	1.402	2.251	17.9	18.5
6 10	19 37.35	-19 39.8	1.904	2.806	11.5	19.5	6 10	19 36.33	-20 48.4	1.322	2.242	14.3	18.3
6 20	19 31.65	-21 12.2	1.819	2.785	8.0	19.3	6 20	19 31.16	-20 34.8	1.262	2.235	10.0	18.0
6 30	19 23.89	-22 54.8	1.759	2.764	4.0	19.0	6 30	19 23.63	-20 24.9	1.223	2.229	5.1	17.7
7 10	19 14.77	-24 41.8	1.727	2.743	0.9	18.7	7 10	19 14.81	-20 17.0	1.207	2.224	0.9	17.4
7 20	19 5.23	-26 26.4	1.724	2.723	5.0	19.0	7 20	19 6.01	-20 10.0	1.216	2.220	5.6	17.7
7 30	18 56.40	-28 2.8	1.749	2.703	9.2	19.2	7 30	18 58.57	-20 3.0	1.248	2.217	10.5	18.0
8 9	18 49.31	-29 27.1	1.798	2.683	12.9	19.4	8 9	18 53.57	-19 55.9	1.301	2.215	14.9	18.2
348171	2004 <i>LE</i> ₂₈		7 9.4 342°16	1°5/ 9.5 18			501761	2014 <i>UN</i> ₁₇₁		7 9.4 305°99	3°6/ 10.3 17		
5 31	19 48.40	-31 0.9	1.615	2.444	16.9	19.3	5 31	19 39.91	-14 21.1	1.260	2.103	20.0	21.1
6 10	19 43.80	-29 59.1	1.522	2.430	13.6	19.0	6 10	19 37.88	-14 11.0	1.172	2.086	16.3	20.8
6 20	19 36.08	-28 47.4	1.449	2.416	9.6	18.7	6 20	19 32.61	-14 14.6	1.102	2.069	11.9	20.5
6 30	19 25.97	-27 23.8	1.400	2.403	5.0	18.5	6 30	19 24.56	-14 32.8	1.052	2.052	7.0	20.2
7 10	19 14.66	-25 48.4	1.376	2.392	1.5	18.2	7 10	19 14.77	-15 4.2	1.024	2.036	3.6	19.9
7 20	19 3.56	-24 4.3	1.380	2.381	5.5	18.4	7 20	19 4.65	-15 45.4	1.019	2.020	6.8	20.1
7 30	18 54.04	-22 17.1	1.411	2.372	10.2	18.7	7 30	18 55.84	-16 32.2	1.036	2.005	12.0	20.3
8 9	18 47.14	-20 32.8	1.465	2.364	14.5	18.9	8 9	18 49.70	-17 20.5	1.074	1.991	17.0	20.6
36175	1999 <i>ST</i> ₆		7 9.4 253°01	5°7/ 6.8 18 R			37023	2000 <i>UD</i> ₂					

EPHEMERIDES

7 9.4

7 9.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
338823	2003 <i>WC</i> ₇₉		7 9.4 244°50	2°6/10.0	18		152308	2005 <i>TW</i> ₇₄		7 9.4 241°28	3°4/ 8.3	18	
5 31	19 42.54	-15 46.0	2.161	2.963	14.1	20.8	5 31	19 44.79	-33 9.1	2.724	3.527	11.5	21.1
6 10	19 38.30	-15 21.7	2.063	2.953	11.4	20.6	6 10	19 39.86	-33 31.1	2.624	3.514	9.2	20.9
6 20	19 31.91	-15 3.4	1.986	2.942	8.2	20.4	6 20	19 32.87	-33 50.3	2.546	3.500	6.7	20.8
6 30	19 23.84	-14 51.0	1.934	2.931	4.8	20.2	6 30	19 24.30	-34 3.5	2.494	3.485	4.4	20.6
7 10	19 14.83	-14 44.4	1.909	2.920	2.6	20.0	7 10	19 14.84	-34 7.7	2.470	3.471	3.5	20.5
7 20	19 5.75	-14 42.7	1.912	2.909	4.8	20.1	7 20	19 5.34	-34 1.2	2.474	3.456	5.1	20.6
7 30	18 57.53	-14 45.2	1.941	2.897	8.3	20.3	7 30	18 56.68	-33 43.9	2.506	3.440	7.7	20.7
8 9	18 50.97	-14 50.9	1.995	2.885	11.6	20.5	8 9	18 49.60	-33 17.5	2.563	3.424	10.3	20.9
96732	1999 <i>NQ</i> ₂₇		7 9.4 325°32	0°8/ 9.2	18		442163	2010 <i>VN</i> ₂₀₄		7 9.4 301°55	1°3/ 9.7	18	
5 31	19 39.47	-23 35.9	1.428	2.277	17.7	19.0	5 31	19 40.41	-19 27.0	2.135	2.951	13.8	21.5
6 10	19 37.28	-23 39.9	1.338	2.258	14.1	18.7	6 10	19 36.74	-19 10.7	2.036	2.936	11.0	21.3
6 20	19 32.01	-23 48.3	1.266	2.240	9.9	18.4	6 20	19 30.91	-18 58.4	1.957	2.921	7.7	21.0
6 30	19 24.17	-23 58.3	1.217	2.223	5.0	18.1	6 30	19 23.38	-18 49.5	1.904	2.907	4.1	20.8
7 10	19 14.80	-24 6.6	1.190	2.207	0.9	17.7	7 10	19 14.89	-18 42.9	1.877	2.892	1.3	20.6
7 20	19 5.24	-24 10.4	1.188	2.191	5.9	18.0	7 20	19 6.33	-18 37.9	1.877	2.878	4.3	20.7
7 30	18 56.98	-24 8.5	1.210	2.176	11.0	18.3	7 30	18 58.62	-18 33.8	1.904	2.864	8.1	21.0
8 9	18 51.24	-24 1.3	1.252	2.162	15.6	18.5	8 9	18 52.58	-18 30.2	1.955	2.850	11.6	21.1
440585	2005 <i>UT</i> ₅₀₂		7 9.4 287°26	2°8/10.6	18		221699	2007 <i>DT</i> ₆₉		7 9.4 125°92	0°1/ 9.5	17	
5 31	19 39.19	-12 13.7	2.294	3.091	13.5	21.4	5 31	19 44.70	-20 31.4	1.870	2.687	15.4	21.2
6 10	19 35.70	-12 23.8	2.181	3.066	11.1	21.2	6 10	19 40.26	-20 48.2	1.794	2.696	12.2	21.0
6 20	19 30.20	-12 44.6	2.089	3.041	8.1	21.0	6 20	19 33.36	-21 11.0	1.740	2.705	8.4	20.7
6 30	19 23.05	-13 16.0	2.022	3.016	4.9	20.7	6 30	19 24.58	-21 37.4	1.710	2.714	4.2	20.5
7 10	19 14.88	-13 56.6	1.981	2.990	2.8	20.6	7 10	19 14.83	-22 4.2	1.706	2.722	0.3	20.2
7 20	19 6.46	-14 44.1	1.967	2.965	4.6	20.6	7 20	19 5.16	-22 28.7	1.729	2.731	4.6	20.6
7 30	18 58.66	-15 35.8	1.982	2.939	8.0	20.8	7 30	18 56.66	-22 49.2	1.779	2.738	8.7	20.8
8 9	18 52.31	-16 28.7	2.021	2.913	11.4	21.0	8 9	18 50.18	-23 5.0	1.853	2.746	12.2	21.1
46149	2001 <i>FJ</i> ₆₇		7 9.4 159°50	4°8/11.9	18		281446	2008 <i>SL</i> ₉₃		7 9.4 198°07	1°5/ 9.8	17	
5 31	19 38.02	-3 53.2	2.992	3.742	11.7	19.9	5 31	19 43.04	-18 21.7	1.959	2.772	14.9	21.2
6 10	19 33.99	-3 40.1	2.904	3.747	9.8	19.7	6 10	19 38.88	-18 13.0	1.873	2.771	11.9	21.0
6 20	19 28.53	-3 37.7	2.837	3.752	7.8	19.6	6 20	19 32.40	-18 10.3	1.808	2.770	8.4	20.8
6 30	19 22.02	-3 47.0	2.796	3.756	5.9	19.5	6 30	19 24.11	-18 12.6	1.767	2.769	4.4	20.5
7 10	19 14.96	-4 7.8	2.781	3.760	4.8	19.4	7 10	19 14.86	-18 18.3	1.752	2.767	1.5	20.3
7 20	19 7.91	-4 39.0	2.793	3.764	5.3	19.4	7 20	19 5.61	-18 26.0	1.765	2.766	4.6	20.5
7 30	19 1.44	-5 19.0	2.834	3.767	7.0	19.6	7 30	18 57.40	-18 34.4	1.804	2.764	8.5	20.8
8 9	18 56.07	-6 5.0	2.900	3.770	9.0	19.7	8 9	18 51.05	-18 42.7	1.867	2.762	12.1	21.0
160075	2000 <i>FK</i> ₃₄		7 9.4 93°63	1°4/ 8.9	17		186039	2001 <i>RA</i> ₁₁₆		7 9.4 297°65	3°8/ 8.3	18	
5 31	19 46.69	-22 0.2	1.702	2.524	16.5	20.3	5 31	19 43.13	-30 51.9	1.969	2.795	14.4	20.5
6 10	19 42.05	-22 56.3	1.639	2.544	12.9	20.2	6 10	19 39.36	-31 25.5	1.879	2.783	11.6	20.3
6 20	19 34.69	-23 59.4	1.597	2.564	8.8	20.0	6 20	19 32.98	-31 58.5	1.809	2.772	8.3	20.1
6 30	19 25.25	-25 4.7	1.579	2.584	4.4	19.7	6 30	19 24.50	-32 26.5	1.763	2.760	5.1	19.9
7 10	19 14.77	-26 6.4	1.588	2.603	1.5	19.6	7 10	19 14.83	-32 44.9	1.743	2.749	3.9	19.8
7 20	19 4.45	-26 59.8	1.624	2.622	5.3	19.9	7 20	19 5.08	-32 51.0	1.750	2.738	6.2	19.9
7 30	18 55.50	-27 42.2	1.686	2.640	9.4	20.2	7 30	18 56.43	-32 44.1	1.782	2.727	9.7	20.1
8 9	18 48.83	-28 13.5	1.772	2.658	13.0	20.4	8 9	18 49.88	-32 25.8	1.837	2.716	13.0	20.3
235285	2003 <i>UF</i> ₃₄		7 9.4 38°41	0°3/ 9.5	18		279259	2009 <i>VF</i> ₆₂		7 9.4 168°12	1°5/ 8.9	17	
5 31	19 42.71	-21 28.2	1.807	2.632	15.5	20.9	5 31	19 45.59	-25 1.1	2.135	2.948	13.9	22.1
6 10	19 38.82	-21 24.9	1.728	2.635	12.3	20.7	6 10	19 40.78	-25 26.5	2.052	2.952	11.0	21.9
6 20	19 32.43	-21 25.8	1.670	2.637	8.5	20.5	6 20	19 33.65	-25 54.6	1.991	2.955	7.6	21.7
6 30	19 24.13	-21 29.3	1.635	2.640	4.3	20.3	6 30	19 24.71	-26 22.0	1.955	2.958	3.9	21.5
7 10	19 14.84	-21 33.2	1.626	2.643	0.4	19.9	7 10	19 14.83	-26 45.5	1.946	2.960	1.6	21.3
7 20	19 5.63	-21 35.8	1.644	2.646	4.7	20.3	7 20	19 4.96	-27 2.4	1.965	2.962	4.7	21.5
7 30	18 57.59	-21 36.3	1.687	2.649	8.9	20.6	7 30	18 56.15	-27 11.9	2.011	2.963	8.3	21.8
8 9	18 51.58	-21 34.6	1.754	2.652	12.5	20.8	8 9	18 49.20	-27 14.3	2.082	2.964	11.6	22.0
167289	2003 <i>UX</i> ₁₉₅		7 9.4 228°56	0°8/ 9.7	17		504756	2009 <i>WA</i> ₇₅		7 9.4 166°12	3°5/ 7.9	17	
5 31	19 42.01	-18 50.5	2.137	2.948	13.9	20.7	5 31	19 46.38	-28 38.6	2.111	2.925	14.0	22.0
6 10	19 37.95	-18 59.0	2.044	2.942	11.1	20.5	6 10	19 41.64	-29 40.4	2.030	2.929	11.1	21.9
6 20	19 31.72	-19 13.7	1.973	2.936	7.7	20.3	6 20	19 34.39	-30 44.4	1.971	2.933	7.9	21.7
6 30	19 23.77	-19 33.3	1.926	2.930	4.0	20.0	6 30	19 25.15	-31 45.3	1.938	2.936	4.7	21.5
7 10	19 14.86	-19 55.4	1.907	2.923	0.8	19.8	7 10	19 14.80	-32 37.8	1.933	2.938	3.6	21.4
7 20	19 5.89	-20 17.9	1.915	2.916	4.2	20.0	7 20	19 4.40	-33 18.0	1.955	2.941	5.9	21.6
7 30	18 57.80	-20 39.2	1.950	2.909	8.0	20.2	7 30	18 55.06	-33 44.3	2.004	2.942	9.2	21.8
8 9	18 51.41	-20 58.0	2.010	2.902	11.5	20.4	8 9	18 47.72	-33 57.4	2.077	2.943	12.2	22.0
490073	2008 <i>TX</i> ₁₂₁		7 9.4 302°18	7°4/ 7.7	18		480859	2001 <i>QR</i> ₁₁₈		7 9.4 306°93	3°2/10.1	16	
5 31	19 47.50	-38 21.4	1.645	2.471	16.8	21.1	5 31	19 40.52	-15 18.1	1.857	2.673	15.5	20.8
6 10	19 43.83	-39 4.2	1.552	2.450	14.0	20.9	6 10	19 37.40	-14 50.6	1.740	2.637	12.7	20.6
6 20	19 36.66	-39 41.3	1.479	2.429	10.9	20.7	6 20	19 31.77	-14 29.6	1.642	2.601	9.3	20.3
6 30	19 26.54	-40 4.8	1.427	2.408	8.3	20.5	6 30	19 24.02	-14 15.9	1.568	2.565	5.6	20.0
7 10	19 14.68	-40 7.6	1.400	2.388	7.5	20.4	7 10	19 14.86	-14 9.7	1.518	2.529	3.2	19.7
7 20	19 2.66	-39 45.9	1.397	2.368	9.4	20.4	7 20	19 5.31	-14 10.3	1.495	2.493	5.7	19.8
7 30	18 52.21	-39 0.5	1.417	2.348	12.7	20.6	7 30	18 56.51	-14 17.0	1.497	2.457	9.9	20.0
8 9	18 44.68	-37 56.7	1.458	2.328	16.2	20.7	8 9	18 49.55	-14 28.3	1.522	2.421	14.0	20.1
317748	2003 <i>SY</i> ₄₈		7 9.4 300°43	2°3/ 9.8	17								

EPHEMERIDES

7 9.4

7 9.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
418012	2007 <i>UZ</i> ₂		7 9.4 284°55	5°0/10.6	17		513303	2007 <i>CN</i> ₈		7 9.4 181°31	0°1/ 9.4	18	
5 31	19 41.71	-11 42.1	1.434	2.257	18.9	21.1	5 31	19 40.80	-21 17.4	2.715	3.519	11.5	23.0
6 10	19 38.84	-11 17.6	1.344	2.243	15.6	20.9	6 10	19 36.49	-21 33.8	2.625	3.520	9.0	22.8
6 20	19 33.01	-11 6.3	1.271	2.228	11.7	20.6	6 20	19 30.43	-21 53.9	2.557	3.520	6.2	22.7
6 30	19 24.68	-11 10.0	1.220	2.213	7.5	20.3	6 30	19 23.06	-22 15.9	2.516	3.520	3.1	22.4
7 10	19 14.84	-11 28.6	1.191	2.198	5.0	20.1	7 10	19 14.98	-22 37.9	2.503	3.519	0.2	22.2
7 20	19 4.73	-12 0.4	1.187	2.183	7.1	20.2	7 20	19 6.90	-22 58.1	2.519	3.519	3.5	22.5
7 30	18 55.80	-12 42.0	1.207	2.169	11.5	20.4	7 30	18 59.53	-23 15.2	2.563	3.518	6.6	22.7
8 9	18 49.23	-13 29.3	1.247	2.154	15.9	20.6	8 9	18 53.51	-23 28.8	2.632	3.516	9.4	22.9
387313	2012 <i>VC</i> ₆₁		7 9.4 266°19	2°8/ 8.4	18		106175	2000 <i>UL</i> ₅		7 9.4 301°58	2°2/ 9.9	18	
5 31	19 43.03	-27 20.5	1.964	2.789	14.5	20.6	5 31	19 40.81	-17 16.6	1.335	2.177	19.0	19.8
6 10	19 39.17	-28 3.0	1.878	2.784	11.5	20.4	6 10	19 38.64	-17 9.4	1.237	2.152	15.5	19.5
6 20	19 32.79	-28 48.2	1.814	2.780	8.1	20.2	6 20	19 33.23	-17 12.4	1.156	2.126	11.1	19.1
6 30	19 24.39	-29 31.6	1.774	2.775	4.5	20.0	6 30	19 24.97	-17 25.5	1.096	2.100	6.1	18.8
7 10	19 14.86	-30 8.6	1.760	2.770	2.9	19.8	7 10	19 14.85	-17 46.9	1.060	2.075	2.2	18.5
7 20	19 5.26	-30 35.8	1.773	2.766	5.6	20.0	7 20	19 4.24	-18 13.6	1.046	2.049	6.4	18.6
7 30	18 56.72	-30 51.7	1.812	2.761	9.3	20.2	7 30	18 54.80	-18 42.6	1.056	2.025	11.9	18.9
8 9	18 50.19	-30 56.7	1.875	2.756	12.6	20.4	8 9	18 47.97	-19 11.4	1.086	2.000	17.1	19.1
65629	5118 <i>T</i> - ₃		7 9.4 340°02	1°5/ 8.9	18		391509	2007 <i>RS</i> ₅₆		7 9.4 211°32	3°2/ 8.5	18	
5 31	19 34.86	-19 28.0	1.020	1.894	21.2	18.3	5 31	19 45.80	-30 56.1	2.321	3.132	13.0	22.0
6 10	19 34.66	-20 31.1	0.945	1.881	17.0	18.0	6 10	19 40.93	-31 19.2	2.231	3.127	10.4	21.8
6 20	19 30.85	-21 53.0	0.887	1.868	11.8	17.6	6 20	19 33.75	-31 40.7	2.162	3.122	7.4	21.6
6 30	19 23.87	-23 29.0	0.849	1.857	5.9	17.3	6 30	19 24.80	-31 56.9	2.119	3.116	4.5	21.4
7 10	19 14.88	-25 10.1	0.831	1.847	1.7	16.9	7 10	19 14.88	-32 4.6	2.104	3.110	3.2	21.3
7 20	19 5.56	-26 45.8	0.835	1.839	7.4	17.3	7 20	19 4.97	-32 1.6	2.116	3.104	5.3	21.4
7 30	18 57.85	-28 7.2	0.860	1.832	13.4	17.6	7 30	18 56.07	-31 48.1	2.155	3.097	8.4	21.6
8 9	18 53.34	-29 10.2	0.903	1.827	18.7	17.8	8 9	18 49.01	-31 25.6	2.219	3.090	11.4	21.8
22367	1993 <i>MZ</i>		7 9.4 321°49	8°5/ 7.7	18		383983	2008 <i>TA</i> ₁₂₂		7 9.5 314°27	3°1/ 9.8	18	
5 31	19 46.51	-40 34.0	1.563	2.391	17.4	17.7	5 31	19 42.24	-17 40.0	1.586	2.414	17.2	20.1
6 10	19 43.28	-41 19.4	1.477	2.373	14.6	17.4	6 10	19 38.92	-16 53.6	1.495	2.401	13.9	19.9
6 20	19 36.38	-41 56.8	1.409	2.355	11.7	17.2	6 20	19 32.83	-16 11.7	1.423	2.387	10.0	19.6
6 30	19 26.44	-42 17.6	1.364	2.338	9.3	17.0	6 30	19 24.50	-15 35.0	1.374	2.374	5.8	19.3
7 10	19 14.75	-42 14.5	1.340	2.322	8.6	17.0	7 10	19 14.90	-15 4.0	1.350	2.362	3.1	19.1
7 20	19 3.02	-41 43.9	1.341	2.306	10.4	17.0	7 20	19 5.21	-14 39.4	1.350	2.349	6.0	19.3
7 30	18 53.04	-40 47.5	1.364	2.291	13.4	17.2	7 30	18 56.70	-14 21.2	1.376	2.338	10.4	19.5
8 9	18 46.16	-39 31.3	1.407	2.277	16.7	17.3	8 9	18 50.43	-14 9.1	1.423	2.326	14.5	19.7
54015	2000 <i>GC</i> ₀₈		7 9.4 160°14	1°3/ 9.2	18		361531	2007 <i>HQ</i> ₁₆		7 9.5 161°41	3°5/ 11.1	18	
5 31	19 48.33	-24 36.3	1.471	2.303	18.1	19.6	5 31	19 38.84	-9 2.8	2.936	3.707	11.4	22.2
6 10	19 43.97	-24 44.6	1.395	2.306	14.4	19.3	6 10	19 34.69	-8 54.4	2.848	3.712	9.4	22.0
6 20	19 36.39	-24 56.2	1.339	2.309	10.0	19.1	6 20	19 29.06	-8 54.6	2.781	3.717	7.1	21.9
6 30	19 26.25	-25 7.2	1.306	2.311	5.0	18.8	6 30	19 22.34	-9 3.7	2.740	3.721	4.8	21.8
7 10	19 14.77	-25 13.8	1.297	2.313	1.3	18.6	7 10	19 15.04	-9 21.1	2.727	3.725	3.5	21.7
7 20	19 3.40	-25 13.6	1.314	2.314	5.8	18.9	7 20	19 7.76	-9 45.8	2.742	3.728	4.4	21.7
7 30	18 53.61	-25 6.0	1.355	2.316	10.7	19.2	7 30	19 1.09	-10 16.1	2.785	3.731	6.5	21.9
8 9	18 46.53	-24 52.6	1.419	2.317	14.9	19.4	8 9	18 55.55	-10 50.2	2.854	3.734	8.9	22.0
513054	2017 <i>VE</i> ₁₂		7 9.4 268°85	3°0/ 8.4	17		183753	2004 <i>AO</i> ₁		7 9.5 125°79	0°9/ 9.2	17	
5 31	19 45.90	-26 31.9	1.711	2.539	16.1	21.9	5 31	19 46.76	-23 5.0	1.766	2.587	16.0	20.8
6 10	19 42.15	-27 17.7	1.609	2.517	13.0	21.6	6 10	19 42.08	-23 27.0	1.694	2.598	12.6	20.6
6 20	19 35.34	-28 8.9	1.528	2.495	9.2	21.3	6 20	19 34.72	-23 53.6	1.642	2.609	8.7	20.4
6 30	19 25.91	-29 0.5	1.470	2.472	5.1	21.0	6 30	19 25.31	-24 21.1	1.614	2.619	4.3	20.1
7 10	19 14.78	-29 46.5	1.438	2.449	3.1	20.8	7 10	19 14.87	-24 46.1	1.613	2.629	1.0	19.9
7 20	19 3.25	-30 21.7	1.431	2.425	6.5	21.0	7 20	19 4.55	-25 5.5	1.639	2.639	5.0	20.2
7 30	18 52.79	-30 43.4	1.451	2.401	10.9	21.2	7 30	18 55.55	-25 18.1	1.691	2.648	9.2	20.5
8 9	18 44.70	-30 51.9	1.492	2.377	15.1	21.4	8 9	18 48.76	-25 24.1	1.766	2.656	12.9	20.7
175090	2004 <i>HN</i> ₅₂		7 9.4 51°73	1°5/ 8.7	18		187064	2005 <i>MN</i> ₃₇		7 9.5 302°50	0°8/ 9.6	18	
5 31	19 41.33	-22 31.2	1.995	2.817	14.4	20.1	5 31	19 41.22	-19 48.2	1.478	2.317	17.7	20.8
6 10	19 37.62	-23 27.7	1.918	2.824	11.3	19.9	6 10	19 38.59	-19 50.4	1.382	2.296	14.3	20.5
6 20	19 31.59	-24 30.7	1.864	2.831	7.7	19.7	6 20	19 32.94	-20 0.5	1.305	2.275	10.0	20.2
6 30	19 23.76	-25 36.1	1.834	2.839	3.9	19.4	6 30	19 24.72	-20 16.9	1.249	2.255	5.2	19.9
7 10	19 14.93	-26 39.0	1.832	2.846	1.6	19.3	7 10	19 14.90	-20 36.9	1.218	2.234	0.8	19.5
7 20	19 6.09	-27 35.4	1.857	2.854	4.8	19.5	7 20	19 4.77	-20 57.4	1.211	2.214	5.7	19.8
7 30	18 58.26	-28 22.2	1.908	2.862	8.5	19.8	7 30	18 55.80	-21 16.0	1.229	2.195	10.9	20.0
8 9	18 52.29	-28 58.6	1.984	2.870	11.9	20.0	8 9	18 49.25	-21 31.5	1.267	2.176	15.6	20.3
468283	2015 <i>DP</i> ₆₈		7 9.4 289°02	2°1/ 8.9	18		436195	2009 <i>WE</i> ₁₃₄		7 9.5 202°21	0°9/ 9.8	18	
5 31	19 44.56	-25 4.4	1.519	2.356	17.4	21.2	5 31	19 43.99	-17 54.4	2.247	3.049	13.6	22.3
6 10	19 41.48	-25 30.0	1.414	2.328	14.0	20.9	6 10	19 39.42	-18 10.6	2.153	3.045	10.9	22.1
6 20	19 35.13	-26 1.2	1.329	2.300	9.9	20.6	6 20	19 32.70	-18 33.8	2.080	3.040	7.6	21.8
6 30	19 25.91	-26 33.8	1.267	2.272	5.2	20.2	6 30	19 24.30	-19 2.3	2.032	3.035	4.0	21.6
7 10	19 14.79	-27 2.7	1.228	2.243	2.2	20.0	7 10	19 14.95	-19 33.9	2.013	3.028	0.9	21.4
7 20	19 3.16	-27 23.1	1.215	2.214	6.5	20.1	7 20	19 5.50	-20 6.0	2.021	3.022	4.1	21.6
7 30	18 52.66	-27 32.7	1.225	2.185	11.6	20.3	7 30	18 56.90	-20 36.6	2.058	3.014	7.8	21.8
8 9	18 44.74	-27 31.9	1.257	2.156	16.4	20.5	8 9	18 49.94	-21 4.2	2.119	3.006	11.1	22.0
288840	2004 <i>RO</i> ₁₉₈		7 9.4 280°07	4°1/ 8.3	18		392752	2012 <i>TK</i> ₁₀		7 9.5			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
140845	2001 UK ₂₀₆		7 9.5 239°84	5°2/11.1	18		2485	Scheffler		7 9.5 201°89	0°2/ 9.4	18	
5 31	19 39.85	- 7 31.5	2.301	3.080	14.0	21.1	5 31	19 40.03	-21 45.6	3.068	3.868	10.4	18.8
6 10	19 36.00	- 6 59.2	2.208	3.074	11.7	20.9	6 10	19 35.72	-22 0.7	2.971	3.864	8.2	18.7
6 20	19 30.25	- 6 37.4	2.135	3.067	9.1	20.7	6 20	19 29.84	-22 18.7	2.898	3.860	5.6	18.5
6 30	19 23.05	- 6 27.6	2.086	3.060	6.6	20.5	6 30	19 22.79	-22 38.2	2.851	3.855	2.8	18.3
7 10	19 15.03	- 6 30.3	2.062	3.053	5.2	20.4	7 10	19 15.10	-22 57.4	2.833	3.850	0.2	18.1
7 20	19 6.95	- 6 45.0	2.066	3.046	6.1	20.5	7 20	19 7.37	-23 14.8	2.845	3.844	3.2	18.3
7 30	18 59.63	- 7 9.9	2.096	3.039	8.5	20.6	7 30	19 0.26	-23 29.4	2.885	3.838	6.0	18.5
8 9	18 53.75	- 7 42.7	2.150	3.032	11.3	20.8	8 9	18 54.31	-23 40.7	2.951	3.832	8.5	18.7
181947	1999 TG ₂₁₅		7 9.5 319°76	6°6/11.6	18		504780	2009 YE ₂		7 9.5 169°63	0°5/ 9.7	17	
5 31	19 37.69	- 4 13.4	2.163	2.938	14.9	19.6	5 31	19 43.80	-17 38.2	2.187	2.990	13.9	22.3
6 10	19 34.43	- 3 34.4	2.073	2.931	12.7	19.5	6 10	19 39.32	-18 17.1	2.100	2.993	11.0	22.1
6 20	19 29.25	- 3 8.3	2.002	2.924	10.2	19.3	6 20	19 32.67	-19 4.8	2.035	2.996	7.7	21.9
6 30	19 22.57	- 2 57.5	1.955	2.917	7.9	19.1	6 30	19 24.31	-19 58.6	1.996	2.999	3.9	21.6
7 10	19 15.06	- 3 3.0	1.932	2.911	6.6	19.0	7 10	19 15.01	-20 55.1	1.984	3.001	0.5	21.4
7 20	19 7.49	- 3 24.3	1.934	2.905	7.3	19.1	7 20	19 5.65	-21 50.6	2.001	3.002	4.1	21.7
7 30	19 0.69	- 3 59.4	1.962	2.899	9.4	19.2	7 30	18 57.17	-22 42.1	2.046	3.003	7.9	21.9
8 9	18 55.37	- 4 45.0	2.013	2.893	12.0	19.3	8 9	18 50.37	-23 27.8	2.117	3.004	11.2	22.1
505596	2014 DA ₂₁		7 9.5 158°67	9°3/ 5.4	18		222573	2001 VB ₁₂₁		7 9.5 144°19	1°6/ 8.9	18	
5 31	19 39.85	-54 55.3	2.900	3.627	12.5	22.8	5 31	19 46.41	-25 13.8	2.283	3.090	13.3	21.4
6 10	19 53.10	-56 8.5	2.838	3.636	11.2	22.7	6 10	19 41.23	-25 45.2	2.205	3.102	10.4	21.2
6 20	19 42.43	-57 9.3	2.797	3.644	10.1	22.6	6 20	19 33.87	-26 19.0	2.150	3.113	7.2	21.1
6 30	19 29.22	-57 50.6	2.780	3.652	9.4	22.6	6 30	19 24.85	-26 51.7	2.121	3.124	3.7	20.9
7 10	19 14.70	-58 7.5	2.786	3.658	9.4	22.6	7 10	19 14.99	-27 20.1	2.120	3.134	1.7	20.7
7 20	19 0.35	-57 58.1	2.816	3.664	10.0	22.6	7 20	19 5.20	-27 41.6	2.147	3.143	4.5	20.9
7 30	18 47.68	-57 24.0	2.870	3.670	11.1	22.7	7 30	18 56.42	-27 55.2	2.202	3.152	7.8	21.2
8 9	18 37.77	-56 30.2	2.944	3.674	12.3	22.8	8 9	18 49.42	-28 1.4	2.282	3.159	10.9	21.4
492815	2014 QS ₂₆₉		7 9.5 256°51	4°9/12.2	17		251477	2008 DZ ₅₂		7 9.5 337°94	10°4/14.2	18	
5 31	19 36.08	- 0 38.5	3.645	4.372	10.2	22.7	5 31	19 37.35	+ 7 47.2	2.200	2.912	16.4	20.1
6 10	19 32.36	- 0 25.5	3.530	4.351	8.7	22.5	6 10	19 34.14	+ 8 40.3	2.118	2.909	14.7	20.0
6 20	19 27.43	- 0 22.6	3.436	4.330	7.2	22.4	6 20	19 29.04	+ 9 14.2	2.053	2.906	13.0	19.8
6 30	19 21.56	- 0 30.8	3.367	4.309	5.8	22.3	6 30	19 22.48	+ 9 24.8	2.008	2.904	11.4	19.7
7 10	19 15.15	- 0 50.6	3.325	4.287	5.0	22.2	7 10	19 15.13	+ 9 9.8	1.985	2.902	10.5	19.7
7 20	19 8.64	- 1 21.3	3.310	4.265	5.3	22.2	7 20	19 7.73	+ 8 29.6	1.985	2.900	10.6	19.7
7 30	19 2.52	- 2 1.7	3.323	4.243	6.6	22.2	7 30	19 1.10	+ 7 26.5	2.009	2.898	11.7	19.7
8 9	18 57.23	- 2 49.7	3.362	4.220	8.2	22.3	8 9	18 55.92	+ 6 5.8	2.054	2.896	13.3	19.8
115649	2003 UK ₁₃₅		7 9.5 166°34	9°3/11.7	18		113788	2002 TY ₁₉₄		7 9.5 6°38	1°2/ 9.7	18	
5 31	19 42.69	+ 3 11.0	2.357	3.077	15.2	20.0	5 31	19 39.18	-19 35.2	1.173	2.031	20.1	19.2
6 10	19 38.08	+ 4 35.6	2.276	3.081	13.4	19.9	6 10	19 37.32	-19 28.9	1.106	2.031	16.1	18.9
6 20	19 31.60	+ 5 46.4	2.215	3.084	11.6	19.8	6 20	19 32.12	-19 31.3	1.057	2.032	11.2	18.7
6 30	19 23.69	+ 6 39.0	2.176	3.086	10.0	19.7	6 30	19 24.27	-19 41.0	1.028	2.034	5.8	18.4
7 10	19 15.03	+ 7 10.7	2.162	3.088	9.3	19.6	7 10	19 15.02	-19 55.1	1.021	2.037	1.2	18.1
7 20	19 6.36	+ 7 20.6	2.173	3.090	9.7	19.7	7 20	19 5.86	-20 10.6	1.037	2.042	6.1	18.4
7 30	18 58.48	+ 7 9.5	2.208	3.092	11.0	19.8	7 30	18 58.35	-20 25.4	1.075	2.047	11.4	18.7
8 9	18 52.06	+ 6 40.8	2.266	3.093	12.7	19.9	8 9	18 53.63	-20 37.8	1.133	2.053	16.1	19.0
37408	2001 XY ₁₁₄		7 9.5 298°00	4°2/ 7.5	18		77136	Mendillo		7 9.5 238°25	3°8/10.7	18	
5 31	19 42.03	-30 5.5	2.036	2.862	14.0	18.8	5 31	19 43.08	-11 57.7	1.709	2.517	17.0	20.0
6 10	19 38.59	-31 9.6	1.940	2.845	11.3	18.6	6 10	19 39.39	-11 52.2	1.619	2.509	13.9	19.7
6 20	19 32.58	-32 16.4	1.866	2.829	8.1	18.4	6 20	19 33.08	-11 59.3	1.547	2.501	10.2	19.5
6 30	19 24.43	-33 20.5	1.817	2.812	5.2	18.2	6 30	19 24.66	-12 19.5	1.498	2.492	6.4	19.2
7 10	19 14.97	-34 16.1	1.794	2.796	4.4	18.1	7 10	19 15.00	-12 51.5	1.475	2.483	3.8	19.1
7 20	19 5.26	-34 58.7	1.797	2.780	6.6	18.2	7 20	19 5.18	-13 32.6	1.477	2.474	5.9	19.2
7 30	18 56.48	-35 26.0	1.826	2.764	9.9	18.4	7 30	18 56.40	-14 19.6	1.505	2.465	9.9	19.4
8 9	18 49.68	-35 38.4	1.878	2.748	13.2	18.5	8 9	18 49.67	-15 8.8	1.556	2.455	13.8	19.6
112741	2002 PK ₁₂₉		7 9.5 289°02	0°5/ 9.6	18		434243	2003 UH ₂₀		7 9.5 236°39	13°2/ 2.5	17	
5 31	19 41.74	-20 28.8	1.909	2.731	14.9	20.1	5 31	20 4.21	-54 42.9	2.024	2.775	16.5	21.9
6 10	19 38.08	-20 31.5	1.819	2.723	11.9	19.9	6 10	19 58.46	-56 41.6	1.947	2.759	15.1	21.8
6 20	19 32.01	-20 39.6	1.750	2.716	8.3	19.7	6 20	19 47.82	-58 28.6	1.889	2.743	13.9	21.7
6 30	19 24.04	-20 51.3	1.704	2.709	4.2	19.4	6 30	19 32.66	-59 51.7	1.853	2.727	13.3	21.6
7 10	19 15.02	-21 4.4	1.685	2.702	0.5	19.1	7 10	19 14.52	-60 40.0	1.838	2.709	13.5	21.6
7 20	19 5.93	-21 17.0	1.693	2.695	4.6	19.4	7 20	18 55.84	-60 47.7	1.845	2.691	14.5	21.6
7 30	18 57.86	-21 27.5	1.726	2.687	8.7	19.6	7 30	18 39.41	-60 16.0	1.872	2.671	16.1	21.7
8 9	18 51.68	-21 35.4	1.784	2.680	12.4	19.8	8 9	18 27.31	-59 12.6	1.916	2.651	17.8	21.8
471312	2011 HA ₈₈		7 9.5 209°23	2°3/10.4	17		1422	Strömgrenia		7 9.5 291°38	2°4/ 9.9	18	
5 31	19 41.58	-13 22.2	1.864	2.673	15.8	21.5	5 31	19 42.42	-17 9.8	1.392	2.228	18.7	16.8
6 10	19 37.93	-13 45.5	1.778	2.672	12.7	21.3	6 10	19 39.69	-16 57.1	1.298	2.209	15.2	16.5
6 20	19 31.90	-14 21.4	1.713	2.670	9.1	21.1	6 20	19 33.81	-16 53.7	1.222	2.189	10.9	16.2
6 30	19 23.99	-15 8.8	1.671	2.669	5.2	20.9	6 30	19 25.23	-16 59.5	1.167	2.170	6.0	15.9
7 10	19 15.02	-16 4.7	1.655	2.668	2.4	20.7	7 10	19 14.96	-17 12.8	1.136	2.150	2.4	15.6
7 20	19 5.96	-17 5.3	1.666	2.667	4.9	20.9	7 20	19 4.35	-17 31.3	1.129	2.131	6.2	15.8
7 30	18 57.88	-18 6.6	1.704	2.665	8.8	21.1	7 30	18 54.96	-17 52.6	1.145	2.112	11.4	16.0
8 9	18 51.67	-19 5.4	1.766	2.664	12.5	21.3	8 9	18 48.11	-18 14.6	1.183	2.093	16.3	16.3
407442	2010 TH ₁₈₂		7 9.5 316°28	2°1/ 9.9	18		427490	2002 AG ₁₄₅		7 9.5 127°97	1°6/ 9.3	18	
5 31	19 39.95	-17 17.3	2.179</										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
431086	2006 <i>DM</i> ₇₅		7 9.5	1°44	3°2/ 8.7	15	159159	2004 <i>XS</i> ₁₇₈		7 9.5	316°36	0°6/ 9.2	18
5 31	19 43.83	-28 40.1	1.625	2.461	16.5	20.9	5 31	19 38.65	-19 31.6	1.479	2.322	17.5	18.9
6 10	19 40.29	-29 5.5	1.549	2.461	13.1	20.7	6 10	19 36.70	-20 17.7	1.380	2.297	14.0	18.6
6 20	19 33.81	-29 31.3	1.492	2.460	9.2	20.4	6 20	19 31.77	-21 17.3	1.301	2.274	9.8	18.3
6 30	19 25.02	-29 52.9	1.459	2.461	5.2	20.2	6 30	19 24.27	-22 27.4	1.244	2.250	5.0	18.0
7 10	19 15.00	-30 5.8	1.450	2.461	3.2	20.1	7 10	19 15.06	-23 42.4	1.211	2.227	0.7	17.6
7 20	19 5.04	-30 7.4	1.467	2.462	6.2	20.3	7 20	19 5.40	-24 55.9	1.203	2.205	5.9	17.9
7 30	18 56.49	-29 57.3	1.508	2.463	10.3	20.5	7 30	18 56.77	-26 2.3	1.218	2.183	11.1	18.1
8 9	18 50.38	-29 37.5	1.572	2.464	14.0	20.7	8 9	18 50.50	-26 57.9	1.256	2.163	15.8	18.3
283668	2002 <i>PD</i> ₁₁₅		7 9.5	309°40	2°0/10.1	18	308622	2005 <i>XR</i>		7 9.5	150°38	6°9/11.9	18
5 31	19 40.08	-16 27.7	1.815	2.636	15.6	21.0	5 31	19 40.61	+ 2 24.6	3.161	3.868	11.9	21.2
6 10	19 36.89	-16 27.7	1.724	2.626	12.6	20.7	6 10	19 35.92	+ 3 27.1	3.079	3.877	10.4	21.0
6 20	19 31.28	-16 36.4	1.654	2.617	8.9	20.5	6 20	19 29.86	+ 4 18.4	3.018	3.885	8.9	20.9
6 30	19 23.73	-16 53.2	1.606	2.607	4.9	20.2	6 30	19 22.78	+ 4 56.3	2.981	3.893	7.6	20.9
7 10	19 15.07	-17 16.1	1.584	2.598	2.0	20.0	7 10	19 15.19	+ 5 19.3	2.971	3.900	6.9	20.8
7 20	19 6.31	-17 42.9	1.588	2.590	4.9	20.2	7 20	19 7.62	+ 5 27.0	2.987	3.907	7.2	20.9
7 30	18 58.53	-18 11.3	1.618	2.581	9.0	20.4	7 30	19 0.63	+ 5 20.1	3.029	3.914	8.3	20.9
8 9	18 52.66	-18 39.1	1.671	2.573	12.8	20.6	8 9	18 54.71	+ 5 0.9	3.096	3.920	9.7	21.1
131489	2001 <i>SA</i> ₁₅₉		7 9.5	198°95	3°1/10.2	17	439295	2012 <i>UC</i> ₁₆₈		7 9.5	192°38	3°7/ 7.7	18
5 31	19 46.44	-14 55.0	1.689	2.498	17.1	20.4	5 31	19 45.20	-29 37.5	2.326	3.138	12.9	21.8
6 10	19 42.01	-14 37.8	1.602	2.496	13.8	20.2	6 10	19 40.61	-30 43.0	2.240	3.136	10.3	21.6
6 20	19 34.85	-14 29.7	1.536	2.493	10.0	20.0	6 20	19 33.70	-31 50.4	2.176	3.135	7.4	21.4
6 30	19 25.52	-14 30.8	1.492	2.489	5.8	19.7	6 30	19 24.92	-32 54.5	2.138	3.133	4.6	21.2
7 10	19 14.97	-14 40.0	1.474	2.485	3.1	19.5	7 10	19 15.06	-33 50.4	2.127	3.130	3.8	21.2
7 20	19 4.37	-14 55.6	1.482	2.480	5.7	19.7	7 20	19 5.07	-34 34.3	2.145	3.127	5.8	21.3
7 30	18 54.95	-15 15.6	1.516	2.475	9.9	19.9	7 30	18 55.99	-35 4.3	2.190	3.124	8.8	21.5
8 9	18 47.71	-15 38.0	1.573	2.469	13.9	20.1	8 9	18 48.69	-35 21.0	2.260	3.120	11.6	21.7
476048	2007 <i>RX</i> ₂₉₀		7 9.5	308°56	6°5/ 7.0	18	94736	2001 <i>XV</i> ₇₃		7 9.5	127°68	0°5/ 9.3	17
5 31	19 43.28	-34 34.9	1.717	2.550	15.9	21.3	5 31	19 46.43	-20 33.5	1.506	2.335	17.9	20.1
6 10	19 40.36	-35 41.5	1.621	2.526	13.0	21.0	6 10	19 42.37	-21 7.7	1.434	2.343	14.2	19.8
6 20	19 34.29	-36 48.1	1.545	2.503	9.9	20.8	6 20	19 35.29	-21 50.8	1.381	2.350	9.8	19.6
6 30	19 25.49	-37 47.4	1.492	2.479	7.3	20.6	6 30	19 25.80	-22 39.0	1.352	2.357	4.9	19.3
7 10	19 14.98	-38 32.1	1.464	2.456	6.7	20.5	7 10	19 15.02	-23 27.1	1.347	2.363	0.6	19.0
7 20	19 4.09	-38 56.6	1.460	2.433	8.9	20.6	7 20	19 4.28	-24 10.5	1.368	2.370	5.5	19.4
7 30	18 54.41	-38 59.0	1.479	2.411	12.3	20.7	7 30	18 54.98	-24 46.1	1.415	2.376	10.3	19.7
8 9	18 47.28	-38 41.8	1.520	2.389	15.8	20.9	8 9	18 48.19	-25 13.2	1.484	2.381	14.4	20.0
478298	2011 <i>WG</i> ₂₄		7 9.5	221°59	2°9/ 8.1	18	242035	2002 <i>QV</i> ₁₃₅		7 9.5	18°43	7°6/ 8.1	16
5 31	19 42.68	-29 3.4	2.511	3.323	12.1	22.3	5 31	19 46.63	-38 56.5	1.537	2.369	17.5	20.1
6 10	19 38.39	-29 49.1	2.420	3.317	9.6	22.2	6 10	19 42.98	-39 39.6	1.473	2.373	14.4	19.9
6 20	19 32.02	-30 35.8	2.351	3.312	6.8	22.0	6 20	19 35.87	-40 14.4	1.428	2.379	11.2	19.8
6 30	19 24.01	-31 19.9	2.308	3.306	4.1	21.8	6 30	19 26.09	-40 33.4	1.405	2.385	8.5	19.6
7 10	19 15.08	-31 57.4	2.293	3.299	3.0	21.7	7 10	19 15.01	-40 30.8	1.405	2.392	7.7	19.6
7 20	19 6.05	-32 25.6	2.306	3.293	5.0	21.8	7 20	19 4.24	-40 4.6	1.429	2.399	9.4	19.7
7 30	18 57.84	-32 43.2	2.346	3.286	7.9	22.0	7 30	18 55.32	-39 17.1	1.476	2.407	12.3	19.9
8 9	18 51.21	-32 50.7	2.411	3.279	10.7	22.2	8 9	18 49.35	-38 13.9	1.544	2.416	15.4	20.1
371444	2006 <i>SG</i> ₂₇₉		7 9.5	321°75	5°5/10.6	17	393285	2013 <i>YE</i> ₆		7 9.5	253°83	7°1/10.8	18
5 31	19 39.80	-11 41.5	1.376	2.206	19.2	21.1	5 31	19 42.75	- 5 58.5	1.959	2.737	16.1	19.9
6 10	19 37.38	-11 1.5	1.293	2.195	15.9	20.8	6 10	19 38.75	- 4 57.7	1.862	2.724	13.7	19.7
6 20	19 32.02	-10 33.7	1.227	2.184	12.0	20.6	6 20	19 32.45	- 4 7.7	1.784	2.710	10.9	19.5
6 30	19 24.25	-10 20.6	1.182	2.174	7.9	20.3	6 30	19 24.32	- 3 31.8	1.729	2.696	8.4	19.3
7 10	19 15.06	-10 23.0	1.159	2.164	5.5	20.1	7 10	19 15.11	- 3 12.2	1.700	2.681	7.1	19.2
7 20	19 5.74	-10 40.0	1.160	2.155	7.5	20.2	7 20	19 5.74	- 3 9.8	1.695	2.666	8.1	19.2
7 30	18 57.65	-11 9.0	1.184	2.146	11.6	20.4	7 30	18 57.23	- 3 23.5	1.716	2.651	10.6	19.4
8 9	18 51.96	-11 46.3	1.228	2.138	15.9	20.7	8 9	18 50.46	- 3 50.4	1.760	2.636	13.6	19.5
512397	2016 <i>PD</i> ₄		7 9.5	348°44	1°0/ 9.9	18	275959	2001 <i>VE</i> ₁₂₆		7 9.5	219°40	0°5/ 9.3	17
5 31	19 40.13	-16 43.0	1.598	2.427	17.0	21.0	5 31	19 44.37	-22 0.9	1.928	2.747	15.0	21.9
6 10	19 37.27	-17 15.7	1.516	2.424	13.6	20.8	6 10	19 40.20	-22 21.1	1.839	2.741	11.9	21.6
6 20	19 31.73	-18 0.7	1.455	2.422	9.5	20.6	6 20	19 33.53	-22 46.7	1.770	2.736	8.2	21.4
6 30	19 24.02	-18 55.8	1.416	2.420	5.0	20.3	6 30	19 24.87	-23 14.9	1.726	2.730	4.1	21.1
7 10	19 15.08	-19 56.7	1.402	2.418	1.0	20.0	7 10	19 15.08	-23 42.4	1.708	2.724	0.6	20.8
7 20	19 6.04	-20 58.6	1.414	2.416	5.1	20.3	7 20	19 5.21	-24 6.3	1.717	2.718	4.7	21.2
7 30	18 58.14	-21 57.1	1.451	2.415	9.7	20.6	7 30	18 56.38	-24 24.9	1.753	2.711	8.8	21.4
8 9	18 52.40	-22 49.1	1.510	2.415	13.8	20.8	8 9	18 49.52	-24 37.6	1.813	2.704	12.5	21.6
166437	2002 <i>PE</i> ₃₃		7 9.5	311°66	1°4/ 9.7	18	381848	2009 <i>WX</i> ₂₃₆		7 9.5	182°11	5°1/ 7.2	18
5 31	19 41.26	-20 19.8	1.658	2.489	16.4	20.1	5 31	19 46.01	-30 34.6	1.809	2.634	15.5	20.8
6 10	19 38.27	-19 54.9	1.555	2.465	13.2	19.8	6 10	19 42.02	-31 59.0	1.731	2.634	12.4	20.6
6 20	19 32.53	-19 33.6	1.473	2.441	9.4	19.5	6 20	19 35.10	-33 26.1	1.674	2.634	9.1	20.4
6 30	19 24.49	-19 15.2	1.413	2.417	4.9	19.2	6 30	19 25.78	-34 48.8	1.642	2.634	6.0	20.3
7 10	19 15.05	-18 58.9	1.377	2.393	1.4	18.9	7 10	19 15.04	-35 59.4	1.636	2.634	5.3	20.2
7 20	19 5.38	-18 43.9	1.368	2.370	5.4	19.1	7 20	19 4.16	-36 52.6	1.656	2.634	7.6	20.3
7 30	18 56.75	-18 30.0	1.383	2.347	10.1	19.3	7 30	18 54.49	-37 26.1	1.702	2.634	10.9	20.5
8 9	18 50.28	-18 17.4	1.420	2.325	14.4	19.5	8 9	18 47.19	-37 41.2	1.770	2.633	14.1	20.7
217183	2002 <i>RN</i> ₁₈₁		7 9.5	344°21	14°8/12.6	18	173147	1995 <i>UC</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
352319	2007 <i>UZ</i> ₁₀₃		7 9.5 318°97	2.4/10.1	18		311928	2007 <i>BZ</i> ₇₅		7 9.5 219°62	1.5/ 8.9	18	
5 31	19 39.86	-16 5.0	1.799	2.620	15.7	20.9	5 31	19 42.53	-26 42.0	2.696	3.503	11.5	21.8
6 10	19 36.73	-15 53.5	1.709	2.611	12.7	20.7	6 10	19 38.01	-26 54.5	2.601	3.497	9.1	21.6
6 20	19 31.19	-15 50.2	1.639	2.601	9.1	20.5	6 20	19 31.62	-27 7.5	2.528	3.490	6.3	21.4
6 30	19 23.72	-15 54.9	1.592	2.592	5.2	20.2	6 30	19 23.81	-27 18.7	2.481	3.483	3.3	21.2
7 10	19 15.17	-16 6.4	1.570	2.583	2.4	20.0	7 10	19 15.22	-27 25.9	2.463	3.476	1.5	21.1
7 20	19 6.52	-16 22.9	1.574	2.575	5.1	20.2	7 20	19 6.62	-27 27.6	2.473	3.469	3.9	21.2
7 30	18 58.88	-16 42.6	1.604	2.567	9.1	20.4	7 30	18 58.78	-27 23.4	2.511	3.461	7.0	21.4
8 9	18 53.13	-17 3.7	1.657	2.559	12.9	20.6	8 9	18 52.39	-27 13.7	2.574	3.453	9.7	21.6
106050	2000 <i>SP</i> ₃₀₈		7 9.5 219°61	0.5/ 9.4	17		416481	2003 <i>WH</i> ₁₁₀		7 9.5 155°72	3.2/ 8.6	17	
5 31	19 48.19	-23 36.4	1.759	2.578	16.1	21.0	5 31	19 49.33	-28 48.1	1.916	2.731	15.1	22.4
6 10	19 43.49	-23 35.6	1.668	2.571	12.9	20.7	6 10	19 44.15	-29 25.0	1.839	2.739	12.0	22.2
6 20	19 35.95	-23 37.6	1.598	2.563	9.0	20.5	6 20	19 36.25	-30 2.4	1.784	2.746	8.5	22.0
6 30	19 26.14	-23 39.8	1.551	2.555	4.5	20.2	6 30	19 26.23	-30 35.5	1.753	2.752	4.9	21.8
7 10	19 15.04	-23 39.3	1.530	2.547	0.6	19.9	7 10	19 15.09	-30 59.7	1.749	2.758	3.2	21.7
7 20	19 3.88	-23 34.4	1.537	2.537	5.1	20.2	7 20	19 4.04	-31 12.2	1.772	2.763	5.8	21.9
7 30	18 53.96	-23 24.5	1.569	2.528	9.6	20.4	7 30	18 54.29	-31 12.3	1.821	2.767	9.4	22.1
8 9	18 46.32	-23 10.8	1.625	2.517	13.7	20.6	8 9	18 46.78	-31 1.9	1.895	2.771	12.8	22.4
183804	2004 <i>BO</i> ₄₃		7 9.5 206°00	0.6/ 9.3	17		518787	2010 <i>BP</i> ₂₄		7 9.5 176°24	1.6/10.3	18	
5 31	19 46.19	-22 9.0	1.931	2.746	15.1	21.4	5 31	19 38.17	-15 21.4	3.055	3.846	10.6	21.7
6 10	19 41.65	-22 29.6	1.841	2.742	12.0	21.1	6 10	19 34.23	-15 27.3	2.963	3.847	8.5	21.6
6 20	19 34.55	-22 55.5	1.772	2.737	8.3	20.9	6 20	19 28.84	-15 39.1	2.894	3.848	6.0	21.4
6 30	19 25.40	-23 23.8	1.727	2.731	4.2	20.6	6 30	19 22.36	-15 56.0	2.851	3.848	3.4	21.2
7 10	19 15.10	-23 51.0	1.709	2.725	0.6	20.4	7 10	19 15.30	-16 16.8	2.836	3.849	1.6	21.1
7 20	19 4.70	-24 14.2	1.718	2.718	4.8	20.7	7 20	19 8.24	-16 40.3	2.850	3.849	3.3	21.2
7 30	18 55.37	-24 31.7	1.754	2.711	8.9	20.9	7 30	19 1.76	-17 5.1	2.893	3.849	5.9	21.4
8 9	18 48.05	-24 43.2	1.814	2.703	12.7	21.1	8 9	18 56.37	-17 29.9	2.962	3.849	8.4	21.6
243211	2007 <i>UM</i> ₄₄		7 9.5 227°49	1.8/10.0	18		239727	2009 <i>BP</i> ₁₁₅		7 9.5 320°35	0.2/ 9.4	18	
5 31	19 41.85	-17 0.4	2.098	2.907	14.2	21.3	5 31	19 41.15	-20 8.4	1.875	2.699	15.1	20.8
6 10	19 37.87	-16 53.4	2.008	2.903	11.4	21.1	6 10	19 37.72	-20 39.8	1.790	2.696	12.0	20.5
6 20	19 31.73	-16 52.9	1.940	2.900	8.1	20.9	6 20	19 31.87	-21 18.9	1.725	2.692	8.3	20.3
6 30	19 23.92	-16 58.4	1.896	2.896	4.4	20.7	6 30	19 24.08	-22 3.2	1.684	2.689	4.1	20.1
7 10	19 15.19	-17 8.4	1.878	2.892	1.8	20.5	7 10	19 15.21	-22 48.8	1.670	2.686	0.3	19.7
7 20	19 6.43	-17 21.5	1.888	2.888	4.4	20.7	7 20	19 6.25	-23 32.0	1.682	2.683	4.6	20.1
7 30	18 58.58	-17 36.2	1.925	2.884	8.1	20.9	7 30	18 58.30	-24 10.1	1.720	2.681	8.8	20.3
8 9	18 52.42	-17 51.2	1.986	2.880	11.5	21.1	8 9	18 52.26	-24 41.6	1.782	2.678	12.5	20.5
253573	2003 <i>SP</i> ₃₀₆		7 9.5 327°60	1.4/ 9.3	18		138180	2000 <i>EN</i> ₁₁₀		7 9.5 156°77	5.0/ 7.8	18	
5 31	19 41.05	-25 34.0	1.172	2.034	19.9	20.0	5 31	19 50.41	-33 47.9	2.072	2.880	14.4	20.5
6 10	19 39.28	-25 26.5	1.090	2.018	16.0	19.7	6 10	19 44.99	-34 43.4	1.997	2.888	11.6	20.3
6 20	19 33.87	-25 20.5	1.026	2.002	11.2	19.4	6 20	19 36.84	-35 36.6	1.943	2.895	8.6	20.1
6 30	19 25.39	-25 12.8	0.981	1.988	5.8	19.0	6 30	19 26.54	-36 21.6	1.914	2.902	5.9	20.0
7 10	19 15.10	-24 59.8	0.958	1.974	1.5	18.7	7 10	19 15.11	-36 52.9	1.913	2.908	5.1	20.0
7 20	19 4.65	-24 39.5	0.958	1.962	6.7	19.0	7 20	19 3.74	-37 7.6	1.938	2.913	6.9	20.1
7 30	18 55.87	-24 12.3	0.980	1.950	12.4	19.2	7 30	18 53.65	-37 5.4	1.990	2.917	9.8	20.3
8 9	18 50.16	-23 40.4	1.021	1.940	17.5	19.5	8 9	18 45.81	-36 49.0	2.065	2.921	12.7	20.5
302	<i>Clarissa</i>		7 9.5 231°64	2.2/ 8.9	18		434362	2004 <i>TG</i> ₂₅		7 9.5 300°02	16.6/14.7	18	
5 31	19 46.42	-26 15.5	1.788	2.612	15.7	15.1	5 31	19 38.81	+16 55.4	1.821	2.489	20.6	21.2
6 10	19 42.17	-26 40.5	1.699	2.604	12.5	14.9	6 10	19 35.97	+18 42.8	1.743	2.476	19.5	21.1
6 20	19 35.09	-27 8.1	1.630	2.597	8.8	14.6	6 20	19 30.75	+20 5.8	1.678	2.464	18.2	20.9
6 30	19 25.74	-27 34.3	1.585	2.589	4.7	14.4	6 30	19 23.59	+20 56.4	1.630	2.451	17.2	20.8
7 10	19 15.09	-27 55.0	1.566	2.580	2.2	14.2	7 10	19 15.26	+21 9.0	1.598	2.439	16.6	20.7
7 20	19 4.34	-28 6.8	1.574	2.571	5.6	14.4	7 20	19 6.75	+20 40.9	1.585	2.427	16.7	20.7
7 30	18 54.79	-28 8.9	1.608	2.562	9.8	14.6	7 30	18 59.12	+19 33.7	1.589	2.415	17.3	20.7
8 9	18 47.50	-28 2.1	1.664	2.553	13.6	14.8	8 9	18 53.32	+17 53.5	1.611	2.404	18.5	20.8
483847	2005 <i>YJ</i> ₁₄		7 9.5 275°81	0.4/ 9.7	17		77421	2001 <i>GB</i>		7 9.5 127°34	0.1/ 9.5	18	
5 31	19 40.91	-18 52.0	2.598	3.400	12.0	22.2	5 31	19 48.35	-22 11.2	1.798	2.613	16.0	19.8
6 10	19 36.96	-19 17.2	2.480	3.373	9.6	21.9	6 10	19 43.24	-22 13.2	1.726	2.627	12.6	19.6
6 20	19 31.08	-19 49.0	2.384	3.345	6.7	21.7	6 20	19 35.52	-22 19.2	1.675	2.639	8.7	19.4
6 30	19 23.64	-20 25.9	2.314	3.317	3.4	21.5	6 30	19 25.82	-22 26.6	1.647	2.652	4.3	19.2
7 10	19 15.21	-21 5.5	2.272	3.289	0.4	21.2	7 10	19 15.16	-22 32.9	1.647	2.663	0.3	18.9
7 20	19 6.52	-21 45.3	2.259	3.260	3.7	21.4	7 20	19 4.69	-22 36.2	1.673	2.674	4.7	19.3
7 30	18 58.39	-22 23.0	2.274	3.230	7.2	21.6	7 30	18 55.53	-22 35.8	1.727	2.685	8.9	19.5
8 9	18 51.59	-22 57.1	2.315	3.201	10.4	21.7	8 9	18 48.58	-22 32.2	1.804	2.695	12.6	19.8
433237	2012 <i>VB</i> ₅₇		7 9.5 327°50	2.5/ 8.7	17		477661	2010 <i>NB</i> ₉₈		7 9.5 208°41	4.3/11.5	18	
5 31	19 40.47	-25 31.8	1.570	2.413	16.7	20.6	5 31	19 38.62	- 5 30.9	3.237	3.989	10.9	22.9
6 10	19 37.89	-26 8.9	1.484	2.401	13.3	20.3	6 10	19 34.49	- 5 9.7	3.136	3.982	9.1	22.8
6 20	19 32.39	-26 51.0	1.417	2.389	9.3	20.1	6 20	19 28.99	- 4 57.4	3.057	3.975	7.2	22.6
6 30	19 24.49	-27 33.7	1.374	2.378	5.0	19.8	6 30	19 22.45	- 4 54.7	3.003	3.967	5.4	22.5
7 10	19 15.16	-28 11.8	1.354	2.368	2.6	19.6	7 10	19 15.35	- 5 2.0	2.977	3.959	4.4	22.4
7 20	19 5.68	-28 41.0	1.360	2.358	6.1	19.8	7 20	19 8.20	- 5 18.5	2.979	3.951	4.9	22.5
7 30	18 57.43	-28 59.0	1.390	2.349	10.6	20.0	7 30	19 1.55	- 5 43.3	3.009	3.942	6.6	22.6
8 9	18 51.55	-29 6.0	1.441	2.340	14.7	20.3	8 9	18 55.90	- 6 14.3	3.064	3.933	8.6	22.7
512356	2016 <i>NU</i> ₂₇		7 9.5 273°04	7.0/11.2	17		337365	2001 <i>PH</i> ₃₆		7 9.5 239°78			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
283006	2007 <i>TU</i> ₄₁₈		7 9.5 291°39	7°8/11.9	18		424113	2007 <i>ER</i> ₉₇		7 9.5 73°99	1°0/ 9.2	17	
5 31	19 39.03	- 2 29.2	1.952	2.724	16.4	20.7	5 31	19 45.26	-23 19.6	1.620	2.450	16.8	21.5
6 10	19 35.88	- 1 46.2	1.855	2.708	14.1	20.5	6 10	19 41.16	-23 39.7	1.555	2.464	13.3	21.3
6 20	19 30.55	- 1 18.2	1.776	2.692	11.5	20.3	6 20	19 34.27	-24 4.4	1.509	2.477	9.1	21.1
6 30	19 23.45	- 1 8.4	1.719	2.676	9.2	20.1	6 30	19 25.28	-24 30.0	1.486	2.491	4.6	20.8
7 10	19 15.29	- 1 18.7	1.686	2.661	7.8	20.0	7 10	19 15.24	-24 52.8	1.489	2.505	1.1	20.6
7 20	19 6.96	- 1 48.8	1.678	2.645	8.5	20.0	7 20	19 5.40	-25 10.0	1.518	2.519	5.2	20.9
7 30	18 59.42	- 2 36.5	1.694	2.629	10.7	20.1	7 30	18 56.96	-25 20.1	1.572	2.532	9.5	21.2
8 9	18 53.53	- 3 37.3	1.733	2.614	13.5	20.3	8 9	18 50.86	-25 23.7	1.649	2.546	13.3	21.5
75506	1999 <i>XW</i> ₁₉₃		7 9.5 200°98	1°5/ 9.2	18		359601	2010 <i>VF</i> ₂₀₇		7 9.5 25°15	1°4/ 9.9	18	
5 31	19 47.80	-25 49.0	1.816	2.636	15.7	20.1	5 31	19 40.30	-18 44.1	2.151	2.965	13.7	20.1
6 10	19 43.09	-25 56.7	1.730	2.634	12.5	19.8	6 10	19 36.54	-18 30.9	2.070	2.969	10.9	19.9
6 20	19 35.62	-26 5.8	1.665	2.631	8.7	19.6	6 20	19 30.76	-18 22.5	2.010	2.973	7.6	19.7
6 30	19 25.99	-26 13.1	1.624	2.628	4.5	19.3	6 30	19 23.44	-18 18.2	1.975	2.977	4.1	19.5
7 10	19 15.17	-26 15.4	1.609	2.624	1.6	19.1	7 10	19 15.34	-18 17.0	1.966	2.981	1.4	19.3
7 20	19 4.38	-26 10.6	1.621	2.620	5.2	19.4	7 20	19 7.31	-18 17.8	1.984	2.985	4.1	19.5
7 30	18 54.83	-25 58.6	1.659	2.616	9.4	19.6	7 30	19 0.20	-18 19.8	2.030	2.990	7.7	19.8
8 9	18 47.54	-25 40.8	1.721	2.611	13.2	19.8	8 9	18 54.73	-18 22.2	2.099	2.995	10.9	20.0
10786	Robertmayer		7 9.5 174°16	2°2/ 9.0	18		508896	2003 <i>UZ</i> ₁₇₂		7 9.5 312°09	8°9/ 6.5	18	
5 31	19 48.56	-26 8.0	1.523	2.354	17.7	19.2	5 31	19 45.64	-39 59.6	1.630	2.457	16.8	20.9
6 10	19 44.22	-26 28.8	1.446	2.355	14.1	19.0	6 10	19 42.71	-41 13.0	1.541	2.436	14.2	20.7
6 20	19 36.69	-26 52.3	1.388	2.356	9.8	18.7	6 20	19 36.21	-42 21.7	1.472	2.416	11.5	20.5
6 30	19 26.61	-27 13.8	1.353	2.357	5.2	18.4	6 30	19 26.64	-43 16.8	1.425	2.395	9.4	20.3
7 10	19 15.14	-27 28.9	1.344	2.358	2.3	18.3	7 10	19 15.16	-43 49.8	1.400	2.375	9.1	20.2
7 20	19 3.73	-27 34.3	1.360	2.358	6.1	18.5	7 20	19 3.39	-43 55.1	1.399	2.356	10.9	20.3
7 30	18 53.85	-27 29.5	1.400	2.358	10.7	18.8	7 30	18 53.15	-43 32.3	1.421	2.337	13.8	20.4
8 9	18 46.64	-27 16.3	1.463	2.357	14.8	19.0	8 9	18 45.89	-42 46.1	1.462	2.318	17.0	20.6
355552	2008 <i>BC</i> ₅₄		7 9.5 86°61	12°0/ 5.5	18		318863	2005 <i>TR</i> ₆₁		7 9.5 356°68	0°1/ 9.5	18	
5 31	20 2.57	-59 45.7	2.407	3.127	14.9	20.5	5 31	19 39.71	-21 55.2	1.784	2.616	15.4	20.4
6 10	19 55.98	-61 8.4	2.359	3.139	13.7	20.4	6 10	19 36.67	-21 59.1	1.703	2.614	12.2	20.2
6 20	19 45.12	-62 14.4	2.330	3.150	12.7	20.4	6 20	19 31.17	-22 7.5	1.642	2.612	8.4	19.9
6 30	19 30.85	-62 55.2	2.322	3.162	12.1	20.4	6 30	19 23.76	-22 18.5	1.605	2.610	4.2	19.7
7 10	19 14.93	-63 4.8	2.334	3.173	12.1	20.4	7 10	19 15.33	-22 29.7	1.593	2.610	0.2	19.4
7 20	18 59.47	-62 41.5	2.367	3.185	12.6	20.4	7 20	19 6.92	-22 39.0	1.607	2.609	4.7	19.7
7 30	18 46.52	-61 48.3	2.421	3.196	13.5	20.5	7 30	18 59.60	-22 45.1	1.646	2.610	8.9	20.0
8 9	18 37.36	-60 32.1	2.493	3.207	14.6	20.6	8 9	18 54.27	-22 47.7	1.709	2.611	12.6	20.2
327681	2006 <i>RK</i> ₄₂		7 9.5 165°12	4°7/10.9	17		27170	1999 <i>AN</i> ₃₀		7 9.5 299°30	0°3/ 9.6	18	
5 31	19 43.81	-10 25.6	1.755	2.554	16.9	21.6	5 31	19 42.40	-21 16.6	1.534	2.371	17.3	18.7
6 10	19 39.76	-10 4.4	1.674	2.557	13.9	21.4	6 10	19 39.51	-21 16.5	1.438	2.350	13.9	18.4
6 20	19 33.23	- 9 55.4	1.612	2.559	10.4	21.1	6 20	19 33.62	-21 22.2	1.360	2.330	9.8	18.1
6 30	19 24.76	- 9 59.8	1.574	2.561	6.9	20.9	6 30	19 25.21	-21 32.0	1.305	2.310	5.0	17.8
7 10	19 15.25	-10 17.1	1.560	2.563	4.7	20.8	7 10	19 15.25	-21 42.9	1.274	2.290	0.3	17.4
7 20	19 5.73	-10 45.5	1.572	2.565	6.3	20.9	7 20	19 5.01	-21 52.5	1.267	2.270	5.5	17.7
7 30	18 57.30	-11 22.2	1.611	2.566	9.7	21.1	7 30	18 55.93	-21 59.2	1.286	2.251	10.6	18.0
8 9	18 50.87	-12 3.8	1.672	2.566	13.2	21.3	8 9	18 49.22	-22 2.3	1.326	2.232	15.2	18.2
447128	2004 <i>VN</i> ₄₂		7 9.5 250°59	2°7/ 8.3	18		353128	2009 <i>FZ</i> ₅₈		7 9.5 276°61	3°3/10.5	18	
5 31	19 41.70	-29 20.4	2.642	3.453	11.6	21.7	5 31	19 40.39	-13 11.1	2.091	2.893	14.5	21.2
6 10	19 37.57	-29 57.1	2.546	3.443	9.2	21.5	6 10	19 36.80	-12 56.0	1.996	2.884	11.8	21.0
6 20	19 31.46	-30 34.3	2.472	3.433	6.5	21.3	6 20	19 31.08	-12 49.7	1.921	2.874	8.6	20.8
6 30	19 23.82	-31 8.6	2.425	3.423	3.9	21.2	6 30	19 23.68	-12 52.5	1.871	2.864	5.3	20.6
7 10	19 15.30	-31 36.8	2.406	3.413	2.8	21.1	7 10	19 15.35	-13 3.9	1.846	2.854	3.3	20.4
7 20	19 6.69	-31 56.5	2.414	3.402	4.8	21.2	7 20	19 6.91	-13 22.4	1.848	2.844	5.0	20.5
7 30	18 58.83	-32 6.8	2.450	3.391	7.6	21.3	7 30	18 59.31	-13 46.2	1.877	2.835	8.4	20.7
8 9	18 52.45	-32 7.9	2.511	3.381	10.2	21.5	8 9	18 53.33	-14 13.4	1.930	2.825	11.7	20.9
163920	2003 <i>SM</i> ₂₇₂		7 9.5 185°02	0°5/ 9.4	18		37384	2001 <i>WU</i> ₁		7 9.5 83°19	4°9/ 7.3	18	
5 31	19 44.55	-23 13.7	2.343	3.151	13.0	21.0	5 31	19 51.55	-37 58.2	2.953	3.735	11.2	20.7
6 10	19 39.81	-23 21.0	2.254	3.151	10.3	20.8	6 10	19 44.86	-39 4.4	2.909	3.779	9.1	20.6
6 20	19 32.97	-23 30.8	2.187	3.150	7.1	20.6	6 20	19 36.16	-40 5.0	2.888	3.821	6.9	20.5
6 30	19 24.54	-23 41.1	2.145	3.149	3.5	20.4	6 30	19 26.02	-40 55.3	2.894	3.863	5.3	20.5
7 10	19 15.27	-23 49.6	2.132	3.148	0.5	20.1	7 10	19 15.24	-41 31.8	2.930	3.904	4.9	20.5
7 20	19 6.00	-23 54.9	2.147	3.146	4.0	20.4	7 20	19 4.68	-41 52.9	2.994	3.943	6.0	20.6
7 30	18 57.64	-23 56.1	2.189	3.144	7.5	20.6	7 30	18 55.20	-41 58.8	3.085	3.983	7.8	20.8
8 9	18 50.93	-23 53.5	2.257	3.142	10.7	20.8	8 9	18 47.44	-41 51.8	3.202	4.021	9.5	21.0
148068	1998 <i>VE</i> ₂₁		7 9.5 301°22	3°7/ 8.5	18		260278	2004 <i>TV</i> ₁₆		7 9.5 293°83	5°1/10.2	18	
5 31	19 43.23	-27 42.4	1.470	2.313	17.5	20.1	5 31	19 41.70	-10 23.1	2.316	3.100	13.8	19.9
6 10	19 40.63	-28 22.0	1.372	2.289	14.2	19.8	6 10	19 37.64	- 9 20.9	2.205	3.077	11.5	19.7
6 20	19 34.71	-29 6.1	1.293	2.264	10.1	19.5	6 20	19 31.58	- 8 24.4	2.117	3.054	8.9	19.5
6 30	19 25.89	-29 49.2	1.236	2.239	5.8	19.2	6 30	19 23.93	- 7 35.8	2.052	3.031	6.4	19.3
7 10	19 15.18	-30 25.0	1.203	2.214	3.8	19.0	7 10	19 15.34	- 6 56.9	2.015	3.008	5.1	19.1
7 20	19 4.03	-30 48.0	1.194	2.190	7.3	19.1	7 20	19 6.59	- 6 28.8	2.005	2.984	6.3	19.2
7 30	18 54.11	-30 55.7	1.209	2.166	12.1	19.3	7 30	18 58.53	- 6 12.0	2.021	2.961	9.0	19.3
8 9	18 46.90	-30 49.3	1.245	2.142	16.6	19.5	8 9	18 51.93	- 6 5.4	2.062	2.938	11.9	19.4
349063	2006 <i>XA</i>		7 9.5 30°83	9°9/11.4	17		97438	2000 <i>AH</i> ₂₄₄		7 9.5			

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7 9.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
282122	2001 <i>DD</i> ₈		7 9.5 282°87	4°0/11.0	18		184062	2004 <i>FZ</i> ₁₅₁		7 9.5 154°97	0°0/ 9.5	17	
5 31	19 40.32	-10 28.6	1.872	2.675	15.9	20.8	5 31	19 46.60	-21 4.1	1.905	2.718	15.3	22.2
6 10	19 37.05	-10 26.9	1.777	2.663	13.1	20.5	6 10	19 41.88	-21 19.4	1.825	2.725	12.1	22.0
6 20	19 31.45	-10 38.3	1.702	2.652	9.8	20.3	6 20	19 34.66	-21 40.3	1.767	2.731	8.4	21.8
6 30	19 23.96	-11 3.4	1.650	2.640	6.3	20.1	6 30	19 25.51	-22 4.0	1.732	2.736	4.2	21.6
7 10	19 15.36	-11 41.1	1.622	2.628	4.1	19.9	7 10	19 15.34	-22 27.7	1.725	2.741	0.2	21.2
7 20	19 6.59	-12 28.9	1.622	2.617	5.7	20.0	7 20	19 5.22	-22 48.5	1.745	2.746	4.6	21.6
7 30	18 58.69	-13 23.4	1.647	2.605	9.2	20.2	7 30	18 56.24	-23 5.1	1.792	2.750	8.7	21.9
8 9	18 52.59	-14 20.7	1.695	2.594	12.8	20.4	8 9	18 49.29	-23 17.0	1.863	2.753	12.3	22.1
137986	2000 <i>CG</i> ₆₀		7 9.5 288°01	1°4/ 9.2	18		497882	2006 <i>UF</i> ₂₄₃		7 9.5 247°18	2°0/10.1	17	
5 31	19 45.51	-25 0.1	1.590	2.422	17.0	19.5	5 31	19 44.50	-16 57.2	1.756	2.571	16.3	22.7
6 10	19 42.08	-25 5.8	1.485	2.396	13.7	19.2	6 10	19 40.61	-16 52.2	1.661	2.560	13.2	22.4
6 20	19 35.51	-25 14.5	1.400	2.369	9.6	18.9	6 20	19 34.07	-16 55.4	1.586	2.548	9.4	22.2
6 30	19 26.24	-25 22.7	1.337	2.342	5.0	18.6	6 30	19 25.36	-17 6.1	1.535	2.536	5.2	21.9
7 10	19 15.24	-25 26.8	1.299	2.315	1.4	18.3	7 10	19 15.36	-17 22.5	1.508	2.523	2.0	21.6
7 20	19 3.84	-25 24.0	1.287	2.288	5.9	18.5	7 20	19 5.19	-17 42.3	1.509	2.510	5.2	21.8
7 30	18 53.59	-25 13.2	1.299	2.260	10.9	18.7	7 30	18 56.06	-18 3.7	1.535	2.496	9.6	22.0
8 9	18 45.79	-24 55.7	1.333	2.233	15.6	18.9	8 9	18 48.99	-18 24.8	1.584	2.483	13.6	22.3
145791	1998 <i>QM</i> ₇₇		7 9.5 267°07	0°3/ 9.5	18		192818	1999 <i>VK</i> ₈₁		7 9.5 198°11	3°4/10.7	18	
5 31	19 47.76	-23 45.4	1.831	2.648	15.7	20.1	5 31	19 42.63	-10 57.9	2.704	3.478	12.3	21.6
6 10	19 43.29	-23 33.2	1.724	2.625	12.6	19.8	6 10	19 37.95	-10 40.4	2.606	3.475	10.0	21.4
6 20	19 35.99	-23 22.5	1.637	2.602	8.8	19.5	6 20	19 31.56	-10 30.6	2.530	3.470	7.5	21.3
6 30	19 26.34	-23 11.1	1.574	2.578	4.5	19.2	6 30	19 23.86	-10 29.0	2.480	3.465	4.9	21.1
7 10	19 15.25	-22 56.8	1.537	2.554	0.4	18.9	7 10	19 15.44	-10 35.3	2.457	3.459	3.4	21.0
7 20	19 3.90	-22 38.3	1.527	2.529	5.1	19.2	7 20	19 6.97	-10 48.6	2.463	3.452	4.6	21.0
7 30	18 53.60	-22 15.7	1.544	2.503	9.7	19.4	7 30	18 59.17	-11 7.6	2.497	3.445	7.1	21.2
8 9	18 45.48	-21 50.3	1.585	2.477	13.9	19.6	8 9	18 52.65	-11 30.7	2.557	3.437	9.8	21.4
494435	2016 <i>UT</i> ₉₀		7 9.5 330°94	5°2/11.1	18		499565	2010 <i>SC</i> ₈		7 9.5 219°56	0°0/ 9.4	17	
5 31	19 39.60	- 8 13.4	2.145	2.932	14.7	21.4	5 31	19 47.08	-21 31.4	1.822	2.638	15.8	22.7
6 10	19 35.99	- 7 39.4	2.059	2.931	12.2	21.2	6 10	19 42.58	-21 38.3	1.729	2.630	12.6	22.4
6 20	19 30.42	- 7 16.2	1.993	2.929	9.4	21.1	6 20	19 35.37	-21 50.2	1.657	2.622	8.8	22.2
6 30	19 23.32	- 7 5.3	1.950	2.928	6.7	20.9	6 30	19 25.98	-22 4.9	1.609	2.613	4.4	21.9
7 10	19 15.41	- 7 7.3	1.933	2.926	5.2	20.8	7 10	19 15.34	-22 19.4	1.587	2.604	0.2	21.5
7 20	19 7.49	- 7 21.3	1.942	2.925	6.2	20.9	7 20	19 4.58	-22 31.3	1.593	2.594	4.9	21.9
7 30	19 0.39	- 7 45.7	1.977	2.924	8.7	21.0	7 30	18 54.93	-22 39.4	1.625	2.584	9.3	22.1
8 9	18 54.83	- 8 17.8	2.037	2.923	11.6	21.2	8 9	18 47.42	-22 43.3	1.680	2.572	13.3	22.4
224945	2007 <i>DH</i> ₁₀₂		7 9.5 268°28	1°2/ 9.2	18		329330	2000 <i>WD</i> ₅₁		7 9.5 197°09	10°4/ 3.9	18	
5 31	19 44.97	-23 48.1	1.774	2.598	15.8	21.4	5 31	19 58.20	-33 12.1	1.312	2.140	20.1	20.6
6 10	19 41.18	-24 8.0	1.674	2.580	12.6	21.1	6 10	19 54.00	-36 22.8	1.239	2.139	16.6	20.4
6 20	19 34.59	-24 32.5	1.594	2.562	8.8	20.9	6 20	19 45.13	-39 44.7	1.187	2.136	13.1	20.2
6 30	19 25.66	-24 58.7	1.538	2.543	4.5	20.6	6 30	19 31.74	-43 0.0	1.159	2.132	10.7	20.0
7 10	19 15.29	-25 22.6	1.508	2.524	1.3	20.3	7 10	19 15.04	-45 48.5	1.157	2.128	11.0	20.0
7 20	19 4.65	-25 40.8	1.504	2.504	5.3	20.5	7 20	18 57.19	-47 54.6	1.180	2.123	13.8	20.2
7 30	18 55.06	-25 51.6	1.526	2.484	9.9	20.7	7 30	18 41.03	-49 13.3	1.226	2.117	17.4	20.4
8 9	18 47.66	-25 55.0	1.571	2.464	14.0	20.9	8 9	18 28.93	-49 50.5	1.291	2.110	20.9	20.6
299772	2006 <i>SZ</i> ₃₈		7 9.5 279°21	4°6/10.9	18		510858	2013 <i>CY</i> ₇₈		7 9.5 211°68	0°3/ 9.7	18	
5 31	19 40.03	- 9 53.8	2.114	2.906	14.7	21.2	5 31	19 42.15	-19 51.9	2.626	3.426	11.9	22.6
6 10	19 36.47	- 9 25.6	2.018	2.896	12.1	21.0	6 10	19 37.76	-20 6.0	2.528	3.420	9.5	22.4
6 20	19 30.85	- 9 7.4	1.942	2.885	9.2	20.8	6 20	19 31.54	-20 25.0	2.452	3.413	6.6	22.2
6 30	19 23.59	- 9 0.5	1.890	2.874	6.3	20.6	6 30	19 23.90	-20 47.0	2.403	3.406	3.3	22.0
7 10	19 15.40	- 9 5.2	1.864	2.864	4.6	20.4	7 10	19 15.45	-21 10.3	2.382	3.398	0.4	21.7
7 20	19 7.12	- 9 20.6	1.865	2.853	5.9	20.5	7 20	19 6.94	-21 32.8	2.389	3.390	3.6	22.0
7 30	18 59.63	- 9 45.2	1.891	2.842	8.8	20.6	7 30	18 59.12	-21 53.2	2.425	3.381	6.8	22.2
8 9	18 53.72	-10 16.3	1.941	2.832	11.9	20.8	8 9	18 52.68	-22 10.6	2.487	3.372	9.8	22.4
386746	2010 <i>BU</i> ₁₁		7 9.5 99°76	3°8/10.6	17		645	<i>Agrippina</i>		7 9.5 205°50	2°6/ 8.5	18	
5 31	19 42.67	-12 28.2	2.020	2.818	15.1	21.6	5 31	19 42.77	-30 18.9	2.854	3.659	10.9	15.7
6 10	19 38.44	-12 0.3	1.945	2.828	12.2	21.4	6 10	19 38.20	-30 43.9	2.761	3.655	8.7	15.6
6 20	19 32.08	-11 41.3	1.889	2.839	9.0	21.3	6 20	19 31.80	-31 8.0	2.692	3.651	6.2	15.4
6 30	19 24.13	-11 31.9	1.858	2.849	5.7	21.1	6 30	19 24.00	-31 28.2	2.650	3.646	3.7	15.2
7 10	19 15.40	-11 31.8	1.853	2.858	3.8	21.0	7 10	19 15.46	-31 41.9	2.635	3.641	2.6	15.1
7 20	19 6.76	-11 40.0	1.875	2.868	5.3	21.1	7 20	19 6.90	-31 47.6	2.649	3.636	4.4	15.2
7 30	18 59.12	-11 55.0	1.924	2.878	8.5	21.3	7 30	18 59.10	-31 44.7	2.690	3.631	7.0	15.4
8 9	18 53.20	-12 14.7	1.996	2.887	11.6	21.5	8 9	18 52.71	-31 34.1	2.758	3.626	9.5	15.6
314011	2004 <i>VV</i> ₂₈		7 9.5 216°68	1°7/ 8.7	18		310196	2011 <i>SB</i> ₁₂₀		7 9.6 280°56	1°0/ 9.9	18	
5 31	19 41.06	-26 20.2	2.739	3.548	11.3	21.2	5 31	19 41.23	-18 41.5	2.055	2.870	14.3	20.9
6 10	19 36.91	-26 52.0	2.646	3.543	8.9	21.1	6 10	19 37.58	-18 44.0	1.962	2.862	11.4	20.6
6 20	19 30.94	-27 25.5	2.576	3.539	6.2	20.9	6 20	19 31.71	-18 52.7	1.890	2.853	8.0	20.4
6 30	19 23.57	-27 58.1	2.532	3.534	3.3	20.7	6 30	19 24.08	-19 6.5	1.842	2.845	4.2	20.2
7 10	19 15.42	-28 26.9	2.517	3.529	1.8	20.6	7 10	19 15.46	-19 23.4	1.821	2.837	1.0	19.9
7 20	19 7.22	-28 49.8	2.530	3.524	4.0	20.7	7 20	19 6.75	-19 41.4	1.827	2.828	4.3	20.1
7 30	18 59.73	-29 5.6	2.571	3.519	6.9	20.9	7 30	18 58.94	-19 58.9	1.859	2.820	8.2	20.4
8 9	18 53.61	-29 14.4	2.637	3.513	9.6	21.1	8 9	18 52.86	-20 14.8	1.916	2.812	11.7	20.6
502386	2015 <i>BN</i> ₂₄₅		7 9.5 236°70	1°7/10.1	17		368921	2006 <i>UM</i> ₁₈₈		7 9.6 2			

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7 9.6

7 9.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
181921	1999 <i>TQ</i> ₇₉		7 9.6 56°89	2.7/ 8.6	18		507696	2013 <i>TO</i> ₄₄		7 9.6 349°42	0.4/ 9.6	17	
5 31	19 42.59	-28 35.6	2.157	2.978	13.5	20.6	5 31	19 37.94	-21 8.7	1.151	2.015	20.1	21.0
6 10	19 38.56	-29 7.3	2.082	2.985	10.7	20.4	6 10	19 36.67	-21 5.4	1.078	2.006	16.1	20.7
6 20	19 32.29	-29 39.3	2.029	2.993	7.5	20.3	6 20	19 32.00	-21 9.4	1.022	1.999	11.2	20.4
6 30	19 24.30	-30 8.0	2.000	3.000	4.3	20.1	6 30	19 24.54	-21 19.0	0.986	1.993	5.7	20.1
7 10	19 15.45	-30 29.8	1.999	3.008	2.8	20.0	7 10	19 15.50	-21 30.9	0.972	1.989	0.5	19.7
7 20	19 6.67	-30 42.4	2.024	3.016	5.1	20.2	7 20	19 6.41	-21 42.2	0.980	1.985	6.2	20.1
7 30	18 58.94	-30 45.2	2.076	3.024	8.3	20.4	7 30	18 58.92	-21 50.7	1.010	1.983	11.7	20.4
8 9	18 53.03	-30 39.2	2.152	3.032	11.3	20.6	8 9	18 54.28	-21 55.7	1.059	1.982	16.6	20.7
398099	2009 <i>SM</i> ₂₂		7 9.6 39°38	9°0/14.2	16		103921	2000 <i>DN</i> ₆₂		7 9.6 3°08	1°8/10.1	17	
5 31	19 37.61	+ 4 42.7	2.155	2.886	16.2	20.7	5 31	19 40.96	-17 0.3	1.838	2.658	15.5	19.5
6 10	19 34.37	+ 5 18.3	2.083	2.895	14.2	20.6	6 10	19 37.55	-16 59.0	1.756	2.657	12.4	19.3
6 20	19 29.26	+ 5 34.9	2.028	2.904	12.2	20.5	6 20	19 31.77	-17 5.8	1.694	2.657	8.8	19.1
6 30	19 22.75	+ 5 29.4	1.993	2.913	10.3	20.4	6 30	19 24.15	-17 19.7	1.656	2.658	4.8	18.8
7 10	19 15.53	+ 5 0.8	1.982	2.923	9.2	20.3	7 10	19 15.54	-17 38.8	1.643	2.658	1.8	18.6
7 20	19 8.35	+ 4 10.4	1.995	2.933	9.3	20.4	7 20	19 6.92	-18 0.9	1.657	2.659	4.7	18.8
7 30	19 1.98	+ 3 1.5	2.032	2.943	10.5	20.5	7 30	18 59.34	-18 24.1	1.697	2.660	8.7	19.1
8 9	18 57.09	+ 1 39.5	2.093	2.954	12.4	20.6	8 9	18 53.64	-18 46.5	1.760	2.661	12.3	19.3
86206	1999 <i>TK</i> ₉		7 9.6 272°83	2°0/ 8.8	18 R		473026	2015 <i>HF</i> ₆₂		7 9.6 111°41	2°1/ 8.7	17	
5 31	19 42.48	-27 18.9	2.512	3.323	12.1	19.5	5 31	19 44.70	-24 33.6	2.026	2.844	14.4	20.8
6 10	19 38.36	-27 42.8	2.404	3.302	9.6	19.3	6 10	19 40.37	-25 27.0	1.952	2.854	11.3	20.6
6 20	19 32.17	-28 7.9	2.318	3.281	6.8	19.1	6 20	19 33.64	-26 25.0	1.900	2.865	7.8	20.4
6 30	19 24.31	-28 31.5	2.258	3.259	3.7	18.9	6 30	19 25.07	-27 23.0	1.872	2.875	4.1	20.2
7 10	19 15.46	-28 50.4	2.226	3.238	2.1	18.7	7 10	19 15.50	-28 16.5	1.872	2.885	2.1	20.1
7 20	19 6.44	-29 2.6	2.222	3.216	4.5	18.9	7 20	19 5.95	-29 1.5	1.900	2.895	5.0	20.3
7 30	18 58.15	-29 6.8	2.245	3.194	7.7	19.0	7 30	18 57.46	-29 36.0	1.955	2.905	8.6	20.6
8 9	18 51.39	-29 3.5	2.293	3.171	10.8	19.2	8 9	18 50.90	-29 59.8	2.033	2.914	11.8	20.8
44459	1998 <i>VW</i> ₁₁		7 9.6 180°16	6°2/11.8	18		40917	Pauljorden		7 9.6 167°43	0°4/ 9.7	18	
5 31	19 40.98	- 3 51.9	2.318	3.078	14.4	18.8	5 31	19 41.57	-20 36.6	2.658	3.460	11.7	19.8
6 10	19 36.92	- 3 17.5	2.231	3.079	12.2	18.6	6 10	19 37.21	-20 37.2	2.570	3.463	9.3	19.7
6 20	19 30.99	- 2 55.9	2.164	3.080	9.8	18.5	6 20	19 31.10	-20 41.2	2.504	3.465	6.4	19.5
6 30	19 23.63	- 2 48.8	2.120	3.080	7.5	18.3	6 30	19 23.68	-20 47.4	2.464	3.467	3.3	19.3
7 10	19 15.50	- 2 57.1	2.102	3.080	6.3	18.2	7 10	19 15.57	-20 54.2	2.452	3.469	0.4	19.0
7 20	19 7.35	- 3 19.9	2.110	3.079	6.9	18.3	7 20	19 7.49	-21 0.5	2.469	3.470	3.4	19.3
7 30	18 59.97	- 3 55.3	2.145	3.078	8.9	18.4	7 30	19 0.16	-21 5.4	2.515	3.472	6.6	19.5
8 9	18 54.02	- 4 40.1	2.204	3.077	11.3	18.6	8 9	18 54.20	-21 8.6	2.585	3.473	9.4	19.7
273461	2006 <i>XX</i> ₄₄		7 9.6 305°04	2°0/ 8.9	17		134531	1999 <i>RN</i> ₅₄		7 9.6 313°57	3°5/ 8.8	18	
5 31	19 41.73	-23 38.5	1.417	2.263	18.0	20.9	5 31	19 42.83	-27 58.0	1.290	2.143	18.9	19.3
6 10	19 39.41	-24 15.7	1.324	2.242	14.4	20.6	6 10	19 40.67	-28 22.8	1.203	2.125	15.3	19.0
6 20	19 33.86	-25 1.3	1.249	2.222	10.1	20.3	6 20	19 34.94	-28 50.1	1.134	2.107	10.9	18.7
6 30	19 25.52	-25 51.0	1.197	2.202	5.3	19.9	6 30	19 26.14	-29 14.5	1.085	2.089	6.1	18.4
7 10	19 15.40	-26 39.0	1.168	2.183	2.1	19.7	7 10	19 15.45	-29 30.0	1.060	2.072	3.6	18.1
7 20	19 4.88	-27 19.7	1.163	2.164	6.5	19.9	7 20	19 4.49	-29 32.3	1.058	2.056	7.4	18.3
7 30	18 55.59	-27 49.6	1.182	2.145	11.6	20.1	7 30	18 55.05	-29 20.2	1.078	2.040	12.5	18.6
8 9	18 48.93	-28 7.7	1.222	2.127	16.3	20.4	8 9	18 48.61	-28 56.1	1.117	2.025	17.3	18.8
136644	1995 <i>FC</i> ₉		7 9.6 156°71	6°8/ 7.3	17		509111	2005 <i>WZ</i> ₃₆		7 9.6 120°61	0°3/ 9.7	18	
5 31	19 50.69	-38 5.2	1.986	2.794	14.9	21.4	5 31	19 40.85	-20 3.0	2.577	3.381	12.0	22.2
6 10	19 45.62	-39 11.2	1.914	2.799	12.3	21.0	6 10	19 36.69	-20 14.1	2.495	3.389	9.5	22.1
6 20	19 37.54	-40 12.4	1.862	2.804	9.6	21.2	6 20	19 30.76	-20 29.6	2.435	3.397	6.5	21.9
6 30	19 27.09	-41 1.5	1.834	2.808	7.4	20.9	6 30	19 23.51	-20 47.9	2.402	3.405	3.3	21.7
7 10	19 15.35	-41 32.5	1.833	2.812	6.9	20.9	7 10	19 15.59	-21 7.2	2.396	3.412	0.4	21.4
7 20	19 3.67	-41 42.1	1.857	2.816	8.4	21.0	7 20	19 7.71	-21 25.7	2.419	3.420	3.5	21.7
7 30	18 53.40	-41 30.6	1.906	2.819	11.0	21.1	7 30	19 0.61	-21 42.3	2.469	3.427	6.6	21.9
8 9	18 45.62	-41 1.7	1.977	2.821	13.7	21.3	8 9	18 54.89	-21 56.1	2.545	3.434	9.5	22.1
356359	2010 <i>LZ</i> ₁₂₁		7 9.6 3°47	2°9/ 9.1	18		468821	2012 <i>TC</i> ₁₅		7 9.6 303°54	5°5/ 7.5	18	
5 31	19 46.38	-31 33.4	2.111	2.926	13.9	20.1	5 31	19 45.23	-31 12.5	1.672	2.505	16.3	20.6
6 10	19 41.60	-31 28.8	2.027	2.926	11.1	20.0	6 10	19 42.30	-32 15.7	1.557	2.465	13.3	20.3
6 20	19 34.39	-31 20.5	1.965	2.926	7.9	19.8	6 20	19 36.08	-33 23.6	1.462	2.424	9.9	20.0
6 30	19 25.36	-31 5.1	1.927	2.926	4.6	19.6	6 30	19 26.83	-34 29.5	1.389	2.383	6.7	19.7
7 10	19 15.45	-30 40.5	1.917	2.926	2.9	19.4	7 10	19 15.42	-35 25.5	1.341	2.342	5.7	19.5
7 20	19 5.69	-30 6.0	1.934	2.927	5.2	19.6	7 20	19 3.19	-36 4.5	1.318	2.301	8.5	19.6
7 30	18 57.13	-29 23.0	1.978	2.927	8.5	19.8	7 30	18 51.87	-36 22.7	1.319	2.260	12.7	19.7
8 9	18 50.57	-28 34.2	2.046	2.928	11.7	20.0	8 9	18 43.05	-36 20.9	1.341	2.219	16.9	19.9
158396	2001 <i>YV</i> ₇₀		7 9.6 84°82	0°2/ 9.5	18		79833	1998 <i>WE</i> ₁₁		7 9.6 210°64	0°4/ 9.4	18	
5 31	19 47.93	-23 56.8	1.750	2.570	16.2	19.9	5 31	19 42.75	-21 28.5	2.169	2.983	13.7	19.7
6 10	19 42.98	-23 38.7	1.681	2.584	12.8	19.7	6 10	19 38.70	-21 52.2	2.080	2.980	10.8	19.5
6 20	19 35.38	-23 21.9	1.632	2.598	8.8	19.5	6 20	19 32.45	-22 21.1	2.012	2.977	7.5	19.3
6 30	19 25.85	-23 4.6	1.608	2.613	4.4	19.3	6 30	19 24.48	-22 52.9	1.969	2.973	3.8	19.1
7 10	19 15.43	-22 45.3	1.610	2.627	0.3	19.0	7 10	19 15.55	-23 24.6	1.953	2.970	0.4	18.8
7 20	19 5.29	-22 23.4	1.639	2.641	4.7	19.4	7 20	19 6.56	-23 53.4	1.965	2.966	4.2	19.1
7 30	18 56.55	-21 59.4	1.695	2.655	8.9	19.7	7 30	18 58.46	-24 17.5	2.005	2.962	7.9	19.3
8 9	18 50.04	-21 34.6	1.774	2.668	12.6	19.9	8 9	18 52.06	-24 36.2	2.068	2.958	11.3	19.5
182246	2001 <i>FE</i> ₄₅		7 9.6 59°02	0°8/ 9.4	17		278349	2007 <i>JV</i> ₁₆		7 9.6 337°05	4°6/ 7.		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
482968	2014 <i>KK</i> ₆₉		7 9.6 310°03	2°6/ 8.3 18			331634	2002 <i>GW</i> ₁₈₀		7 9.6 231°71	2°1/ 8.7 18		
5 31	19 41.05	-25 35.4	2.132	2.954	13.6	20.9	5 31	19 46.48	-26 24.9	2.403	3.208	12.7	21.5
6 10	19 37.63	-26 36.3	2.040	2.945	10.8	20.7	6 10	19 41.65	-27 1.1	2.298	3.193	10.2	21.3
6 20	19 31.90	-27 42.4	1.970	2.936	7.5	20.5	6 20	19 34.55	-27 40.0	2.216	3.177	7.1	21.1
6 30	19 24.30	-28 49.4	1.925	2.927	4.2	20.2	6 30	19 25.61	-28 18.0	2.159	3.161	3.9	20.8
7 10	19 15.57	-29 52.3	1.907	2.918	2.7	20.1	7 10	19 15.56	-28 51.5	2.131	3.143	2.1	20.7
7 20	19 6.65	-30 46.7	1.917	2.910	5.3	20.3	7 20	19 5.30	-29 17.4	2.132	3.125	4.7	20.8
7 30	18 58.58	-31 29.9	1.953	2.901	8.8	20.5	7 30	18 55.83	-29 34.3	2.160	3.106	8.1	21.0
8 9	18 52.27	-32 1.2	2.014	2.893	12.0	20.7	8 9	18 48.03	-29 42.1	2.213	3.087	11.3	21.2
387794	2003 <i>WB</i> ₉₄		7 9.6 212°40	3°5/ 8.3 18			19086	1978 <i>VB</i> ₃		7 9.6 307°08	5°1/ 7.2 18 R		
5 31	19 46.25	-31 16.7	2.450	3.257	12.5	22.5	5 31	19 43.10	-33 30.5	2.153	2.973	13.6	17.4
6 10	19 41.39	-31 54.3	2.357	3.250	10.0	22.3	6 10	19 39.42	-34 37.2	2.067	2.965	11.0	17.2
6 20	19 34.29	-32 31.1	2.286	3.243	7.2	22.1	6 20	19 33.23	-35 43.5	2.003	2.958	8.2	17.0
6 30	19 25.41	-33 3.1	2.241	3.235	4.5	21.9	6 30	19 25.00	-36 43.7	1.963	2.950	5.8	16.9
7 10	19 15.53	-33 26.5	2.224	3.227	3.5	21.8	7 10	19 15.58	-37 32.3	1.950	2.943	5.2	16.8
7 20	19 5.57	-33 38.7	2.234	3.218	5.4	21.9	7 20	19 6.01	-38 5.4	1.963	2.936	7.0	16.9
7 30	18 56.51	-33 39.1	2.272	3.209	8.3	22.1	7 30	18 57.43	-38 21.6	2.002	2.929	9.8	17.1
8 9	18 49.20	-33 28.9	2.335	3.199	11.1	22.3	8 9	18 50.81	-38 22.2	2.063	2.922	12.6	17.2
92346	2000 <i>GP</i> ₁₅₉		7 9.6 63°12	3°4/ 9.1 17			342975	2009 <i>BV</i> ₂₇		7 9.6 259°99	2°2/ 8.9 18		
5 31	19 50.99	-29 1.6	1.188	2.034	20.7	18.8	5 31	19 44.70	-27 0.4	2.113	2.930	13.9	21.8
6 10	19 46.67	-29 14.1	1.136	2.053	16.4	18.6	6 10	19 40.54	-27 24.6	2.013	2.914	11.1	21.5
6 20	19 38.56	-29 25.4	1.102	2.072	11.5	18.4	6 20	19 33.93	-27 50.5	1.934	2.899	7.8	21.3
6 30	19 27.61	-29 29.9	1.088	2.092	6.3	18.2	6 30	19 25.34	-28 14.7	1.881	2.883	4.2	21.0
7 10	19 15.44	-29 22.7	1.098	2.111	3.4	18.1	7 10	19 15.58	-28 33.7	1.854	2.866	2.2	20.9
7 20	19 3.82	-29 2.4	1.132	2.131	7.0	18.3	7 20	19 5.66	-28 44.7	1.854	2.850	5.1	21.0
7 30	18 54.41	-28 30.9	1.189	2.150	11.8	18.7	7 30	18 56.67	-28 46.6	1.882	2.833	8.8	21.2
8 9	18 48.27	-27 52.2	1.267	2.170	16.0	19.0	8 9	18 49.55	-28 40.2	1.933	2.816	12.2	21.4
477748	2010 <i>VB</i> ₃₂		7 9.6 204°43	1°6/10.3 18			227925	2007 <i>FS</i> ₄₄		7 9.6 83°32	3°3/ 8.3 18		
5 31	19 39.64	-15 52.2	2.789	3.583	11.5	21.4	5 31	19 45.01	-26 43.4	1.723	2.552	16.0	20.0
6 10	19 35.64	-15 53.0	2.694	3.580	9.2	21.2	6 10	19 41.20	-27 46.1	1.650	2.558	12.7	19.8
6 20	19 30.01	-15 59.7	2.622	3.577	6.5	21.1	6 20	19 34.57	-28 53.2	1.598	2.564	8.9	19.6
6 30	19 23.16	-16 11.7	2.575	3.573	3.7	20.9	6 30	19 25.69	-29 58.8	1.569	2.570	5.1	19.4
7 10	19 15.63	-16 27.8	2.557	3.570	1.6	20.7	7 10	19 15.56	-30 56.8	1.566	2.576	3.4	19.3
7 20	19 8.08	-16 46.8	2.567	3.566	3.5	20.8	7 20	19 5.42	-31 42.3	1.590	2.582	6.3	19.5
7 30	19 1.16	-17 7.1	2.605	3.562	6.4	21.0	7 30	18 56.54	-32 13.1	1.639	2.588	10.1	19.7
8 9	18 55.46	-17 27.8	2.669	3.557	9.1	21.2	8 9	18 49.97	-32 29.9	1.711	2.594	13.6	19.9
248071	2004 <i>PA</i> ₄₅		7 9.6 259°15	5°1/ 7.7 18 R			76806	2000 <i>QS</i> ₂₄		7 9.6 243°17	3°5/ 8.5 18		
5 31	19 45.96	-37 29.8	2.563	3.364	12.2	20.8	5 31	19 45.09	-32 11.1	2.396	3.205	12.6	19.2
6 10	19 41.25	-38 6.6	2.467	3.350	10.0	20.6	6 10	19 40.51	-32 34.0	2.303	3.198	10.1	19.0
6 20	19 34.23	-38 39.1	2.393	3.336	7.7	20.5	6 20	19 33.69	-32 54.7	2.232	3.189	7.3	18.8
6 30	19 25.39	-39 2.6	2.344	3.322	5.7	20.3	6 30	19 25.12	-33 9.4	2.187	3.181	4.6	18.6
7 10	19 15.53	-39 13.2	2.322	3.307	5.2	20.3	7 10	19 15.60	-33 15.0	2.169	3.172	3.5	18.5
7 20	19 5.61	-39 8.9	2.327	3.292	6.5	20.3	7 20	19 6.06	-33 9.6	2.178	3.164	5.4	18.6
7 30	18 56.63	-38 49.5	2.358	3.278	8.9	20.4	7 30	18 57.48	-32 53.1	2.214	3.155	8.3	18.8
8 9	18 49.45	-38 17.3	2.413	3.262	11.3	20.6	8 9	18 50.66	-32 27.2	2.275	3.146	11.1	19.0
416749	2005 <i>EK</i> ₁₀₅		7 9.6 165°97	1°5/10.0 17			393877	2005 <i>TK</i> ₃₈		7 9.6 247°94	2°0/10.4 18		
5 31	19 46.33	-17 6.4	1.753	2.565	16.5	22.2	5 31	19 40.41	-15 8.4	2.488	3.284	12.6	21.9
6 10	19 41.92	-17 15.9	1.672	2.569	13.2	22.0	6 10	19 36.53	-15 6.9	2.387	3.274	10.1	21.7
6 20	19 34.88	-17 34.5	1.611	2.573	9.3	21.8	6 20	19 30.81	-15 12.5	2.309	3.263	7.3	21.5
6 30	19 25.77	-18 0.4	1.574	2.576	4.9	21.6	6 30	19 23.65	-15 24.6	2.255	3.252	4.2	21.3
7 10	19 15.53	-18 31.0	1.563	2.578	1.5	21.3	7 10	19 15.68	-15 42.1	2.229	3.241	2.1	21.1
7 20	19 5.28	-19 3.3	1.579	2.580	4.9	21.6	7 20	19 7.61	-16 3.6	2.231	3.230	4.0	21.3
7 30	18 56.19	-19 34.6	1.621	2.581	9.2	21.8	7 30	19 0.22	-16 27.4	2.261	3.218	7.2	21.4
8 9	18 49.23	-20 3.3	1.686	2.582	13.1	22.1	8 9	18 54.20	-16 52.0	2.316	3.206	10.2	21.6
273388	2006 <i>VQ</i> ₅₀		7 9.6 174°24	0°7/ 9.4 17			184295	2005 <i>EJ</i> ₃₇		7 9.6 78°44	2°0/10.1 17		
5 31	19 47.05	-23 8.5	2.004	2.816	14.7	21.8	5 31	19 45.89	-16 53.1	1.460	2.286	18.5	20.6
6 10	19 42.23	-23 23.2	1.920	2.819	11.6	21.6	6 10	19 41.85	-16 50.5	1.398	2.302	14.8	20.4
6 20	19 34.95	-23 41.6	1.857	2.821	8.0	21.4	6 20	19 34.92	-16 57.8	1.354	2.318	10.4	20.1
6 30	19 25.76	-24 0.8	1.818	2.822	4.0	21.1	6 30	19 25.78	-17 13.6	1.332	2.334	5.6	19.9
7 10	19 15.54	-24 17.9	1.807	2.823	0.8	20.9	7 10	19 15.59	-17 35.2	1.335	2.350	2.0	19.7
7 20	19 5.34	-24 30.6	1.824	2.824	4.6	21.2	7 20	19 5.61	-17 59.9	1.364	2.366	5.4	20.0
7 30	18 56.23	-24 37.7	1.868	2.824	8.5	21.4	7 30	18 57.12	-18 24.9	1.417	2.381	9.9	20.3
8 9	18 49.09	-24 39.5	1.935	2.823	12.0	21.6	8 9	18 51.06	-18 48.7	1.492	2.397	13.9	20.6
151393	2002 <i>ET</i> ₇₉		7 9.6 128°43	2°1/10.3 18			83955	2001 <i>XR</i> ₆		7 9.6 316°38	0°3/ 9.5 18 R		
5 31	19 40.77	-15 26.7	2.490	3.287	12.6	20.5	5 31	19 41.47	-22 11.7	2.008	2.830	14.3	20.5
6 10	19 36.65	-15 16.3	2.406	3.293	10.1	20.3	6 10	19 37.89	-22 21.7	1.920	2.824	11.4	20.3
6 20	19 30.76	-15 12.2	2.344	3.299	7.2	20.2	6 20	19 32.01	-22 36.0	1.852	2.819	7.9	20.0
6 30	19 23.54	-15 14.0	2.307	3.304	4.2	20.0	6 30	19 24.33	-22 52.4	1.809	2.814	4.0	19.8
7 10	19 15.64	-15 20.8	2.298	3.310	2.1	19.9	7 10	19 15.65	-23 8.4	1.793	2.809	0.4	19.5
7 20	19 7.79	-15 31.4	2.317	3.315	4.0	20.0	7 20	19 6.93	-23 21.9	1.803	2.804	4.4	19.8
7 30	19 0.70	-15 44.7	2.363	3.320	7.0	20.2	7 30	18 59.18	-23 31.5	1.840	2.800	8.3	20.0
8 9	18 55.02	-15 59.5	2.435	3.325	9.8	20.4	8 9	18 53.23	-23 36.9	1.900	2.796	11.8	20.2
297124	2010 <i>RM</i> ₁₅₂		7 9.6 69°91	2°2/ 9.0 17			174681	2003 <i>SO</i> ₃₀₉		7			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
392734	2012 <i>RM</i> ₂₀		7 9.6 236°93	3°7/ 8.6 18			1734	Zhongolovich		7 9.6 303°12	5°3/11.1 18		
5 31	19 48.78	-33 8.6	2.406	3.208	12.8	22.2	5 31	19 39.42	-9 20.0	1.823	2.626	16.3	16.0
6 10	19 43.49	-33 28.8	2.304	3.194	10.4	22.0	6 10	19 36.59	-8 53.6	1.718	2.601	13.6	15.7
6 20	19 35.80	-33 45.9	2.225	3.179	7.6	21.8	6 20	19 31.37	-8 39.2	1.632	2.577	10.5	15.5
6 30	19 26.22	-33 56.1	2.171	3.163	4.9	21.6	6 30	19 24.16	-8 38.9	1.568	2.553	7.2	15.2
7 10	19 15.57	-33 55.7	2.145	3.147	3.8	21.5	7 10	19 15.70	-8 53.1	1.529	2.529	5.3	15.1
7 20	19 4.85	-33 43.0	2.147	3.131	5.6	21.6	7 20	19 6.95	-9 21.1	1.515	2.505	6.7	15.1
7 30	18 55.11	-33 17.9	2.176	3.114	8.6	21.7	7 30	18 58.99	-10 0.4	1.526	2.481	10.1	15.2
8 9	18 47.23	-32 42.9	2.230	3.096	11.5	21.9	8 9	18 52.82	-10 47.7	1.559	2.458	13.8	15.4
86319	1999 <i>VF</i> ₁₉₉		7 9.6 278°09	4°1/11.3 18			45471	2000 <i>AG</i> ₂₀₄		7 9.6 324°48	3°8/11.0 18		
5 31	19 38.69	-8 41.0	2.396	3.179	13.4	19.7	5 31	19 38.30	-11 21.8	1.622	2.442	17.3	18.9
6 10	19 35.23	-8 34.8	2.297	3.168	11.1	19.5	6 10	19 35.94	-11 27.0	1.531	2.428	14.2	18.7
6 20	19 29.96	-8 39.8	2.218	3.157	8.4	19.3	6 20	19 31.03	-11 47.2	1.458	2.415	10.5	18.4
6 30	19 23.25	-8 56.4	2.164	3.146	5.8	19.1	6 30	19 24.00	-12 22.8	1.407	2.402	6.5	18.1
7 10	19 15.72	-9 24.2	2.136	3.135	4.1	19.0	7 10	19 15.71	-13 12.2	1.380	2.389	3.8	17.9
7 20	19 8.08	-10 1.6	2.135	3.124	5.2	19.1	7 20	19 7.20	-14 11.9	1.378	2.378	5.8	18.0
7 30	19 1.10	-10 46.3	2.161	3.113	7.8	19.2	7 30	18 59.67	-15 17.4	1.401	2.367	9.9	18.2
8 9	18 55.48	-11 35.4	2.213	3.103	10.6	19.4	8 9	18 54.14	-16 23.9	1.447	2.356	13.9	18.5
356754	2011 <i>UY</i> ₂₄₃		7 9.6 127°11	0°3/ 9.5 18			412183	2013 <i>GG</i> ₉₇		7 9.6 61°60	1°3/ 9.8 17		
5 31	19 42.10	-22 22.8	2.533	3.340	12.1	22.0	5 31	19 46.58	-19 50.2	1.235	2.077	20.3	20.9
6 10	19 37.74	-22 34.3	2.452	3.348	9.5	21.8	6 10	19 43.00	-19 35.5	1.173	2.088	16.2	20.6
6 20	19 31.54	-22 48.9	2.393	3.356	6.6	21.6	6 20	19 36.04	-19 28.3	1.129	2.100	11.3	20.4
6 30	19 23.96	-23 4.5	2.360	3.364	3.3	21.4	6 30	19 26.47	-19 26.9	1.106	2.111	5.8	20.1
7 10	19 15.70	-23 19.3	2.355	3.372	0.4	21.2	7 10	19 15.62	-19 29.0	1.107	2.123	1.3	19.8
7 20	19 7.48	-23 31.6	2.379	3.379	3.6	21.5	7 20	19 5.03	-19 32.4	1.131	2.135	5.9	20.2
7 30	19 0.08	-23 40.5	2.430	3.386	6.8	21.7	7 30	18 56.22	-19 35.8	1.179	2.147	11.1	20.5
8 9	18 54.15	-23 45.7	2.507	3.393	9.7	21.9	8 9	18 50.27	-19 38.7	1.248	2.159	15.6	20.8
159025	2004 <i>TQ</i> ₄₈		7 9.6 20°66	2°4/ 8.9 17			512018	2015 <i>LC</i> ₃₃		7 9.6 4°72	1°3/ 9.0 18		
5 31	19 42.07	-25 38.8	1.405	2.253	18.0	19.9	5 31	19 41.17	-22 42.2	1.988	2.812	14.4	21.2
6 10	19 39.33	-26 10.7	1.339	2.258	14.3	19.7	6 10	19 37.73	-23 26.6	1.906	2.812	11.4	21.0
6 20	19 33.49	-26 46.6	1.291	2.264	9.9	19.5	6 20	19 31.96	-24 17.2	1.845	2.812	7.8	20.8
6 30	19 25.20	-27 21.7	1.266	2.271	5.2	19.2	6 30	19 24.35	-25 10.3	1.808	2.812	4.0	20.6
7 10	19 15.64	-27 50.9	1.264	2.278	2.5	19.1	7 10	19 15.71	-26 1.7	1.798	2.813	1.4	20.4
7 20	19 6.20	-28 10.4	1.287	2.286	6.2	19.3	7 20	19 7.00	-26 47.6	1.815	2.814	4.7	20.6
7 30	18 58.28	-28 18.8	1.334	2.295	10.7	19.6	7 30	18 59.26	-27 25.4	1.858	2.815	8.5	20.9
8 9	18 52.95	-28 17.2	1.401	2.305	14.7	19.9	8 9	18 53.35	-27 54.1	1.926	2.816	11.9	21.1
438512	2007 <i>RD</i> ₁₅₃		7 9.6 52°55	4°9/ 8.7 16			325468	2009 <i>QO</i> ₅₅		7 9.6 15°96	1°5/ 9.9 16		
5 31	19 48.35	-34 18.3	1.724	2.549	16.2	21.4	5 31	19 39.24	-19 19.3	1.114	1.976	20.7	20.4
6 10	19 43.78	-34 38.4	1.657	2.558	13.0	21.2	6 10	19 37.55	-19 8.0	1.055	1.981	16.5	20.2
6 20	19 36.23	-34 53.4	1.610	2.568	9.5	21.0	6 20	19 32.48	-19 5.9	1.012	1.988	11.6	19.9
6 30	19 26.44	-34 58.1	1.586	2.579	6.3	20.8	6 30	19 24.76	-19 11.6	0.990	1.996	6.0	19.7
7 10	19 15.60	-34 48.4	1.588	2.589	4.9	20.8	7 10	19 15.69	-19 22.5	0.989	2.005	1.5	19.4
7 20	19 5.06	-34 22.9	1.615	2.600	7.0	20.9	7 20	19 6.83	-19 35.7	1.011	2.016	6.1	19.7
7 30	18 56.10	-33 43.5	1.667	2.611	10.3	21.2	7 30	18 59.69	-19 49.0	1.054	2.027	11.4	20.0
8 9	18 49.67	-32 53.9	1.742	2.622	13.5	21.4	8 9	18 55.38	-20 0.9	1.118	2.040	16.0	20.4
323364	2003 <i>WD</i> ₁₇		7 9.6 279°39	4°7/ 8.3 18			49183	1998 <i>SW</i> ₇₂		7 9.6 77°47	4°1/ 8.4 18		
5 31	19 47.71	-30 50.2	1.573	2.405	17.1	20.7	5 31	19 46.83	-29 4.8	1.556	2.390	17.2	18.7
6 10	19 44.16	-31 30.3	1.475	2.383	13.9	20.4	6 10	19 42.94	-29 56.3	1.489	2.398	13.7	18.5
6 20	19 37.21	-32 11.6	1.395	2.360	10.2	20.1	6 20	19 35.91	-30 49.4	1.441	2.407	9.7	18.2
6 30	19 27.32	-32 47.8	1.339	2.336	6.4	19.9	6 30	19 26.42	-31 37.8	1.416	2.415	5.8	18.0
7 10	19 15.55	-33 12.1	1.307	2.313	4.8	19.7	7 10	19 15.63	-32 15.3	1.416	2.423	4.2	18.0
7 20	19 3.38	-33 19.6	1.300	2.289	7.7	19.8	7 20	19 4.94	-32 37.7	1.441	2.432	7.0	18.1
7 30	18 52.51	-33 9.1	1.317	2.265	12.0	20.0	7 30	18 55.78	-32 44.3	1.491	2.440	10.8	18.4
8 9	18 44.38	-32 43.2	1.355	2.241	16.2	20.2	8 9	18 49.24	-32 37.2	1.563	2.449	14.5	18.6
428032	2006 <i>CG</i> ₆₂		7 9.6 213°99	8°4/ 8.2 18			109839	2001 <i>RQ</i> ₁₂₄		7 9.6 275°86	1°1/ 9.3 18		
5 31	19 57.53	-45 28.3	2.040	2.824	15.4	20.8	5 31	19 44.84	-23 27.2	1.767	2.592	15.8	20.5
6 10	19 51.20	-46 3.2	1.959	2.820	13.2	20.6	6 10	19 41.21	-23 46.8	1.664	2.571	12.7	20.2
6 20	19 41.48	-46 26.6	1.898	2.816	10.8	20.4	6 20	19 34.77	-24 11.7	1.581	2.549	8.9	19.9
6 30	19 29.13	-46 30.9	1.860	2.812	9.0	20.3	6 30	19 25.96	-24 38.7	1.522	2.527	4.6	19.6
7 10	19 15.50	-46 10.6	1.847	2.807	8.5	20.3	7 10	19 15.66	-25 3.9	1.489	2.505	1.2	19.3
7 20	19 2.16	-45 23.9	1.860	2.802	9.6	20.3	7 20	19 5.02	-25 24.1	1.481	2.482	5.3	19.6
7 30	18 50.66	-44 13.7	1.898	2.797	11.7	20.4	7 30	18 55.40	-25 37.1	1.500	2.459	9.9	19.8
8 9	18 42.08	-42 46.5	1.958	2.791	14.2	20.6	8 9	18 47.93	-25 42.8	1.541	2.436	14.1	20.0
115643	2003 <i>UJ</i> ₁₃₁		7 9.6 96°45	0°8/ 9.8 18			283673	2002 <i>PO</i> ₁₇₇		7 9.6 347°17	2°7/ 8.9 17		
5 31	19 44.46	-20 37.3	1.949	2.764	14.9	19.7	5 31	19 39.56	-26 49.9	1.416	2.268	17.6	20.5
6 10	19 40.12	-20 22.6	1.870	2.770	11.9	19.5	6 10	19 37.54	-27 13.7	1.338	2.259	14.1	20.2
6 20	19 33.44	-20 11.6	1.812	2.776	8.2	19.3	6 20	19 32.42	-27 40.1	1.278	2.251	9.9	19.9
6 30	19 25.00	-20 3.3	1.779	2.782	4.2	19.1	6 30	19 24.78	-28 4.9	1.240	2.244	5.4	19.7
7 10	19 15.67	-19 56.4	1.772	2.788	0.9	18.8	7 10	19 15.72	-28 23.2	1.225	2.238	2.8	19.5
7 20	19 6.45	-19 49.9	1.792	2.794	4.4	19.1	7 20	19 6.61	-28 31.7	1.234	2.233	6.4	19.7
7 30	18 58.33	-19 43.1	1.839	2.799	8.3	19.3	7 30	18 58.90	-28 29.1	1.266	2.229	11.0	19.9
8 9	18 52.11	-19 36.2	1.910	2.805	11.8	19.6	8 9	18 53.75	-28 16.6	1.319	2.227	15.2	20.2
246524	2008 <i>EX</i> ₁₄₂		7 9.6 325°56	3°4/ 7.9 18			514417	2016 <i>TR</i> ₉₆		7 9.6			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
13315	Hilana		7 9.6 155°82	4.3/ 8.4	18		91188	1998 RP77		7 9.6 325°17	4.7/ 7.9	18	
5 31	19 48.91	-31 5.0	1.803	2.624	15.7	18.3	5 31	19 41.48	-32 22.9	1.956	2.784	14.4	19.0
6 10	19 44.24	-31 47.8	1.727	2.628	12.6	18.1	6 10	19 38.41	-33 9.2	1.864	2.769	11.6	18.8
6 20	19 36.66	-32 30.0	1.672	2.632	9.1	17.9	6 20	19 32.72	-33 55.1	1.794	2.754	8.6	18.6
6 30	19 26.77	-33 5.9	1.640	2.636	5.7	17.7	6 30	19 24.89	-34 35.3	1.747	2.740	5.7	18.4
7 10	19 15.65	-33 30.1	1.635	2.639	4.3	17.7	7 10	19 15.80	-35 4.7	1.725	2.726	4.8	18.3
7 20	19 4.59	-33 39.6	1.655	2.642	6.7	17.8	7 20	19 6.56	-35 19.9	1.730	2.713	6.8	18.4
7 30	18 54.91	-33 33.9	1.702	2.645	10.2	18.0	7 30	18 58.38	-35 19.8	1.759	2.700	10.1	18.5
8 9	18 47.63	-33 15.6	1.771	2.647	13.5	18.2	8 9	18 52.26	-35 5.8	1.811	2.688	13.3	18.7
183269	2002 TB241		7 9.6 314°86	1.6/ 9.2	18		244107	2001 UD195		7 9.6 355°41	2.5/ 8.8	18	
5 31	19 40.69	-23 38.9	1.318	2.171	18.7	19.9	5 31	19 41.45	-26 26.8	1.762	2.596	15.5	20.4
6 10	19 38.86	-24 1.5	1.227	2.149	15.0	19.6	6 10	19 38.36	-27 0.8	1.682	2.593	12.3	20.1
6 20	19 33.69	-24 31.3	1.153	2.128	10.5	19.3	6 20	19 32.62	-27 37.7	1.623	2.591	8.6	19.9
6 30	19 25.62	-25 4.6	1.101	2.107	5.5	19.0	6 30	19 24.79	-28 13.5	1.587	2.590	4.7	19.7
7 10	19 15.70	-25 36.3	1.071	2.086	1.7	18.7	7 10	19 15.82	-28 43.8	1.577	2.589	2.6	19.5
7 20	19 5.39	-26 17.7	1.064	2.067	6.5	18.9	7 20	19 6.81	-29 5.2	1.592	2.589	5.6	19.7
7 30	18 56.39	-26 1.8	1.081	2.048	11.9	19.1	7 30	18 58.97	-29 16.3	1.633	2.589	9.5	20.0
8 9	18 50.14	-26 24.3	1.117	2.030	16.9	19.4	8 9	18 53.26	-29 17.5	1.696	2.589	13.1	20.2
449631	2014 KL17		7 9.6 357°17	5.5/ 11.3	15		115343	2003 SS228		7 9.6 268°03	2.0/ 10.2	18	
5 31	19 38.89	- 8 1.8	2.044	2.834	15.1	21.2	5 31	19 42.25	-16 18.7	1.890	2.703	15.4	20.0
6 10	19 35.63	- 7 22.9	1.960	2.833	12.6	21.0	6 10	19 38.58	-16 15.3	1.804	2.702	12.4	19.8
6 20	19 30.34	- 6 55.2	1.895	2.832	9.8	20.8	6 20	19 32.56	-16 20.2	1.740	2.700	8.8	19.6
6 30	19 23.50	- 6 40.5	1.854	2.831	7.1	20.6	6 30	19 24.69	-16 32.5	1.698	2.698	4.9	19.3
7 10	19 15.82	- 6 39.5	1.838	2.831	5.5	20.5	7 10	19 15.83	-16 50.7	1.683	2.697	2.0	19.1
7 20	19 8.13	- 6 51.7	1.848	2.831	6.5	20.6	7 20	19 6.92	-17 12.6	1.695	2.695	4.7	19.3
7 30	19 1.29	- 7 15.2	1.884	2.831	9.0	20.7	7 30	18 59.02	-17 36.3	1.732	2.694	8.6	19.5
8 9	18 56.04	- 7 47.2	1.942	2.832	11.9	20.9	8 9	18 52.96	-17 59.9	1.793	2.692	12.2	19.8
350409	2012 VP39		7 9.6 283°64	0.7/ 9.4	18		251491	2008 EZ35		7 9.6 141°49	4.5/ 11.2	18	
5 31	19 43.10	-23 9.3	1.903	2.726	14.9	21.5	5 31	19 40.13	- 8 52.9	2.296	3.079	13.9	20.8
6 10	19 39.41	-23 20.0	1.812	2.717	11.9	21.3	6 10	19 36.36	- 8 29.1	2.210	3.080	11.5	20.7
6 20	19 33.23	-23 34.5	1.741	2.708	8.3	21.0	6 20	19 30.73	- 8 15.5	2.144	3.082	8.8	20.5
6 30	19 25.06	-23 50.5	1.695	2.700	4.2	20.8	6 30	19 23.68	- 8 13.2	2.103	3.083	6.1	20.3
7 10	19 15.76	-24 4.9	1.674	2.691	0.7	20.5	7 10	19 15.87	- 8 22.2	2.088	3.085	4.5	20.2
7 20	19 6.37	-24 15.6	1.681	2.682	4.7	20.8	7 20	19 8.06	- 8 41.3	2.100	3.086	5.5	20.3
7 30	18 58.00	-24 21.3	1.713	2.673	8.8	21.0	7 30	19 1.02	- 9 8.9	2.138	3.087	8.1	20.5
8 9	18 51.60	-24 21.9	1.769	2.664	12.6	21.2	8 9	18 55.43	- 9 42.4	2.201	3.088	10.8	20.6
120091	2003 EH35		7 9.6 14°65	4.9/ 11.1	18		342260	2008 SP301		7 9.6 220°46	0.6/ 9.4	18	
5 31	19 39.40	- 9 27.4	1.981	2.778	15.4	19.5	5 31	19 45.47	-23 25.8	2.251	3.059	13.4	22.2
6 10	19 36.09	- 8 56.7	1.900	2.780	12.7	19.4	6 10	19 40.85	-23 33.6	2.154	3.051	10.7	22.0
6 20	19 30.68	- 8 37.1	1.839	2.782	9.6	19.2	6 20	19 34.00	-23 44.1	2.080	3.043	7.4	21.7
6 30	19 23.68	- 8 29.9	1.801	2.784	6.7	19.0	6 30	19 25.40	-23 55.2	2.030	3.034	3.7	21.5
7 10	19 15.83	- 8 35.4	1.789	2.787	4.9	18.9	7 10	19 15.81	-24 4.3	2.008	3.024	0.6	21.2
7 20	19 7.99	- 8 52.5	1.802	2.790	6.1	19.0	7 20	19 6.14	-24 9.8	2.014	3.014	4.2	21.5
7 30	19 1.05	- 9 19.2	1.841	2.793	8.9	19.2	7 30	18 57.37	-24 10.7	2.048	3.004	7.9	21.7
8 9	18 55.77	- 9 52.5	1.903	2.797	11.9	19.4	8 9	18 50.30	-24 7.3	2.106	2.993	11.2	21.9
250729	2005 SS52		7 9.6 272°41	5.8/ 11.8	18		105737	2000 SL88		7 9.6 179°24	3.8/ 8.4	18	
5 31	19 39.07	- 4 40.9	2.345	3.112	14.1	20.8	5 31	19 48.79	-28 23.4	1.674	2.499	16.6	20.0
6 10	19 35.59	- 4 16.0	2.245	3.100	11.9	20.6	6 10	19 44.43	-29 15.1	1.595	2.500	13.2	19.8
6 20	19 30.26	- 4 3.6	2.166	3.087	9.5	20.5	6 20	19 37.00	-30 9.6	1.537	2.501	9.4	19.5
6 30	19 23.47	- 4 5.4	2.109	3.075	7.2	20.3	6 30	19 27.08	-31 0.7	1.502	2.501	5.5	19.3
7 10	19 15.83	- 4 22.0	2.079	3.062	5.8	20.2	7 10	19 15.74	-31 42.4	1.493	2.501	3.8	19.2
7 20	19 8.07	- 4 52.5	2.074	3.049	6.5	20.2	7 20	19 4.35	-32 10.1	1.510	2.501	6.7	19.4
7 30	19 0.98	- 5 34.9	2.096	3.037	8.7	20.3	7 30	18 54.34	-32 22.4	1.552	2.500	10.6	19.6
8 9	18 55.25	- 6 26.0	2.143	3.024	11.3	20.5	8 9	18 46.83	-32 20.9	1.617	2.498	14.3	19.8
216586	2002 KU4		7 9.6 18°96	5.0/ 10.5	17		279784	1999 TK319		7 9.6 309°36	0.4/ 9.7	18	
5 31	19 42.09	-13 59.1	1.235	2.075	20.5	20.0	5 31	19 40.78	-20 3.1	1.621	2.455	16.6	20.8
6 10	19 39.45	-13 10.2	1.169	2.078	16.7	19.7	6 10	19 38.15	-20 14.5	1.524	2.435	13.4	20.5
6 20	19 33.64	-12 32.4	1.120	2.082	12.3	19.5	6 20	19 32.74	-20 33.7	1.446	2.416	9.4	20.2
6 30	19 25.34	-12 7.8	1.091	2.087	7.7	19.2	6 30	19 25.00	-20 59.0	1.391	2.396	4.8	19.9
7 10	19 15.76	-11 56.9	1.085	2.093	5.0	19.1	7 10	19 15.82	-21 27.3	1.361	2.377	0.4	19.5
7 20	19 6.29	-11 58.9	1.101	2.099	7.3	19.2	7 20	19 6.37	-21 55.2	1.356	2.359	5.2	19.9
7 30	18 58.38	-12 11.9	1.140	2.106	11.6	19.5	7 30	18 57.94	-22 20.3	1.375	2.341	10.0	20.1
8 9	18 53.10	-12 32.5	1.200	2.113	15.9	19.8	8 9	18 51.70	-22 40.9	1.417	2.323	14.4	20.3
423997	2006 VC117		7 9.6 132°04	3.6/ 8.4	17		168097	2006 DL192		7 9.6 15°88	1.5/ 9.2	17	
5 31	19 47.90	-28 41.7	1.752	2.576	16.0	21.8	5 31	19 41.69	-22 26.3	1.125	1.986	20.6	19.2
6 10	19 43.46	-29 30.6	1.679	2.583	12.7	21.6	6 10	19 39.76	-22 59.4	1.062	1.988	16.4	18.9
6 20	19 36.14	-30 21.2	1.627	2.590	9.0	21.4	6 20	19 34.24	-23 41.6	1.016	1.992	11.4	18.6
6 30	19 26.54	-31 7.8	1.598	2.597	5.3	21.2	6 30	19 25.81	-24 28.2	0.989	1.996	5.7	18.3
7 10	19 15.72	-31 44.8	1.596	2.604	3.7	21.1	7 10	19 15.80	-25 12.8	0.986	2.002	1.5	18.1
7 20	19 4.96	-32 8.6	1.620	2.610	6.4	21.3	7 20	19 5.85	-25 49.9	1.005	2.008	6.6	18.4
7 30	18 55.54	-32 18.1	1.669	2.616	10.1	21.5	7 30	18 57.68	-26 16.3	1.045	2.014	12.0	18.7
8 9	18 48.51	-32 15.0	1.741	2.621	13.5	21.8	8 9	18 52.55	-26 31.7	1.106	2.022	16.7	19.0
315279	2007 TP108		7 9.6 255°61	1.2/ 9.4	17		273876	2007 HM3		7 9.6 343°87	11.2/ 4.3	18	
5 31	19 48.07	-24 51.7	1.594	2.421	17.2	21.3	5 31	19 31.32	-35 34.8	1.			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
147116	2002 TZ ₇₇		7 9.6 234°55	0°7/ 9.8 17			14564	Heasley		7 9.6 353°10	0°5/ 9.8 18	R	
5 31	19 46.01	-19 55.6	1.911	2.723	15.3	21.4	5 31	19 36.09	-19 0.4	1.377	2.228	18.1	16.6
6 10	19 41.71	-19 57.8	1.814	2.712	12.3	21.2	6 10	19 34.71	-19 21.6	1.299	2.220	14.4	16.3
6 20	19 34.87	-20 5.8	1.737	2.700	8.6	20.9	6 20	19 30.46	-19 53.4	1.240	2.214	10.1	16.0
6 30	19 25.95	-20 17.9	1.685	2.688	4.4	20.7	6 30	19 23.86	-20 33.7	1.202	2.208	5.2	15.7
7 10	19 15.82	-20 31.8	1.659	2.676	0.7	20.4	7 10	19 15.93	-21 18.5	1.188	2.204	0.5	15.4
7 20	19 5.53	-20 45.3	1.661	2.662	4.7	20.6	7 20	19 7.90	-22 3.3	1.197	2.202	5.4	15.7
7 30	18 56.23	-20 56.9	1.689	2.649	9.0	20.9	7 30	19 1.13	-22 44.2	1.230	2.201	10.4	16.0
8 9	18 48.89	-21 5.9	1.741	2.635	12.8	21.1	8 9	18 56.72	-23 18.7	1.284	2.201	14.8	16.3
275881	2001 SR ₃₅₅		7 9.6 196°04	1°7/ 8.9 17			385569	2004 TO ₃₃₂		7 9.6 228°75	1°6/ 10.1 17		
5 31	19 46.64	-24 41.5	2.257	3.064	13.4	22.0	5 31	19 44.28	-17 6.5	2.288	3.086	13.5	22.4
6 10	19 41.85	-25 21.6	2.165	3.061	10.6	21.8	6 10	19 39.85	-17 2.3	2.186	3.075	10.9	22.2
6 20	19 34.75	-26 5.7	2.095	3.057	7.4	21.6	6 20	19 33.30	-17 4.2	2.106	3.063	7.7	22.0
6 30	19 25.82	-26 50.0	2.051	3.053	3.9	21.3	6 30	19 25.08	-17 11.4	2.051	3.051	4.3	21.8
7 10	19 15.84	-27 30.8	2.035	3.048	1.8	21.2	7 10	19 15.90	-17 22.6	2.023	3.038	1.6	21.6
7 20	19 5.75	-28 4.6	2.047	3.043	4.6	21.4	7 20	19 6.58	-17 36.3	2.024	3.024	4.2	21.7
7 30	18 56.55	-28 29.8	2.087	3.037	8.2	21.6	7 30	18 58.04	-17 51.2	2.052	3.010	7.8	21.9
8 9	18 49.10	-28 46.2	2.152	3.030	11.4	21.8	8 9	18 51.09	-18 6.0	2.106	2.995	11.1	22.1
358404	2007 BX ₄₃		7 9.6 212°13	3°3/ 11.3 18			292380	2006 SL ₂₅₉		7 9.6 310°84	0°7/ 9.4 18		
5 31	19 39.72	-9 33.1	2.625	3.403	12.5	20.8	5 31	19 42.12	-23 19.3	1.989	2.811	14.4	20.8
6 10	19 35.88	-9 39.2	2.529	3.399	10.2	20.6	6 10	19 38.52	-23 31.8	1.900	2.805	11.4	20.5
6 20	19 30.34	-9 55.4	2.455	3.395	7.7	20.5	6 20	19 32.56	-23 48.0	1.833	2.799	7.9	20.3
6 30	19 23.50	-10 22.0	2.405	3.391	5.0	20.3	6 30	19 24.75	-24 5.4	1.789	2.794	4.0	20.1
7 10	19 15.94	-10 57.7	2.383	3.386	3.4	20.2	7 10	19 15.91	-24 21.2	1.772	2.788	0.8	19.8
7 20	19 8.30	-11 40.8	2.389	3.381	4.4	20.2	7 20	19 7.01	-24 33.2	1.782	2.783	4.5	20.1
7 30	19 1.28	-12 28.9	2.423	3.376	7.0	20.4	7 30	18 59.11	-24 40.2	1.818	2.778	8.4	20.3
8 9	18 55.53	-13 19.3	2.483	3.371	9.7	20.5	8 9	18 53.05	-24 42.1	1.878	2.773	12.0	20.5
304022	2006 DP ₄₅		7 9.6 232°76	2°2/ 9.2 17			470646	2008 SB ₁₁₇		7 9.6 323°42	1°7/ 9.9 16		
5 31	19 49.07	-26 32.5	1.527	2.357	17.7	21.1	5 31	19 39.74	-18 42.5	1.450	2.291	17.9	21.8
6 10	19 44.93	-26 47.6	1.442	2.350	14.1	20.9	6 10	19 37.57	-18 31.1	1.359	2.274	14.4	21.6
6 20	19 37.52	-27 4.8	1.375	2.343	9.9	20.6	6 20	19 32.47	-18 27.3	1.287	2.256	10.2	21.3
6 30	19 27.42	-27 19.7	1.332	2.335	5.3	20.3	6 30	19 24.92	-18 30.5	1.236	2.240	5.5	21.0
7 10	19 15.79	-27 27.8	1.313	2.327	2.3	20.1	7 10	19 15.90	-18 38.9	1.208	2.224	1.7	20.7
7 20	19 4.06	-27 26.2	1.320	2.319	6.1	20.3	7 20	19 6.64	-18 50.4	1.205	2.208	5.6	20.9
7 30	18 53.78	-27 14.3	1.352	2.310	10.9	20.6	7 30	18 58.57	-19 3.2	1.225	2.194	10.6	21.1
8 9	18 46.18	-26 54.1	1.405	2.301	15.2	20.8	8 9	18 52.84	-19 15.7	1.267	2.180	15.2	21.3
87249	2000 OR ₄₇		7 9.6 334°99	12°7/ 7.9 18			347156	2011 EZ ₄₂		7 9.6 341°38	4°7/ 8.8 16		
5 31	19 47.89	-46 47.2	1.261	2.093	20.5	17.4	5 31	19 45.91	-32 5.8	1.494	2.333	17.6	20.3
6 10	19 46.00	-47 43.7	1.184	2.073	18.0	17.2	6 10	19 42.57	-32 29.5	1.416	2.328	14.2	20.1
6 20	19 39.37	-48 25.3	1.123	2.054	15.4	17.0	6 20	19 35.91	-32 50.6	1.358	2.323	10.3	19.9
6 30	19 28.70	-48 40.0	1.080	2.037	13.3	16.8	6 30	19 26.59	-33 3.3	1.322	2.319	6.4	19.6
7 10	19 15.73	-48 17.4	1.057	2.020	12.8	16.7	7 10	19 15.84	-33 2.4	1.309	2.316	4.7	19.5
7 20	19 2.84	-47 13.1	1.054	2.005	14.1	16.7	7 20	19 5.15	-32 45.4	1.321	2.313	7.3	19.7
7 30	18 52.48	-45 30.9	1.071	1.992	16.9	16.8	7 30	18 56.05	-32 13.0	1.357	2.310	11.4	19.9
8 9	18 46.24	-43 21.8	1.107	1.980	20.1	17.0	8 9	18 49.71	-31 29.1	1.415	2.308	15.2	20.1
2638	Gadolín		7 9.6 237°24	6°0/ 10.6 18			342537	2008 UR ₂₁₉		7 9.6 339°71	0°7/ 9.5 16		
5 31	19 44.48	-9 24.6	1.911	2.700	16.1	16.2	5 31	19 42.62	-23 21.0	1.615	2.450	16.6	21.1
6 10	19 40.26	-8 21.9	1.821	2.694	13.4	16.0	6 10	19 39.46	-23 28.3	1.533	2.445	13.2	20.8
6 20	19 33.70	-7 27.9	1.750	2.687	10.4	15.8	6 20	19 33.50	-23 39.7	1.471	2.441	9.2	20.6
6 30	19 25.30	-6 45.4	1.703	2.681	7.5	15.6	6 30	19 25.31	-23 52.6	1.431	2.437	4.6	20.3
7 10	19 15.88	-6 16.2	1.682	2.674	6.0	15.5	7 10	19 15.89	-24 3.8	1.417	2.433	0.8	20.0
7 20	19 6.39	-6 1.2	1.686	2.667	7.2	15.6	7 20	19 6.44	-24 10.8	1.428	2.430	5.2	20.3
7 30	18 57.86	-5 59.9	1.717	2.660	10.1	15.7	7 30	18 58.24	-24 12.5	1.463	2.427	9.7	20.6
8 9	18 51.15	-6 10.0	1.770	2.652	13.2	15.9	8 9	18 52.30	-24 9.1	1.521	2.425	13.8	20.8
221639	2007 BA ₁₃		7 9.6 286°75	1°2/ 9.3 18			14432	1992 EA ₆		7 9.6 208°95	1°4/ 10.2 18		
5 31	19 44.19	-23 24.2	1.612	2.444	16.8	20.8	5 31	19 44.91	-16 31.4	1.992	2.797	15.0	19.0
6 10	19 41.02	-23 44.4	1.513	2.423	13.5	20.5	6 10	19 40.66	-16 48.2	1.900	2.792	12.1	18.7
6 20	19 34.86	-24 10.5	1.433	2.402	9.4	20.2	6 20	19 34.04	-17 14.1	1.827	2.787	8.5	18.5
6 30	19 26.15	-24 39.3	1.376	2.381	4.9	19.9	6 30	19 25.52	-17 47.8	1.780	2.781	4.6	18.3
7 10	19 15.84	-25 6.4	1.344	2.360	1.2	19.6	7 10	19 15.89	-18 26.4	1.759	2.774	1.4	18.0
7 20	19 5.17	-25 28.2	1.337	2.339	5.6	19.8	7 20	19 6.12	-19 7.0	1.766	2.767	4.5	18.2
7 30	18 55.61	-25 42.3	1.356	2.317	10.5	20.1	7 30	18 57.27	-19 46.8	1.800	2.760	8.5	18.5
8 9	18 48.38	-25 48.5	1.396	2.296	15.0	20.3	8 9	18 50.25	-20 23.7	1.858	2.752	12.2	18.7
110645	2001 TU ₁₆₈		7 9.6 298°82	4°4/ 8.5 18			404841	2014 KW ₂		7 9.6 53°31	1°0/ 10.1 17		
5 31	19 45.57	-33 37.8	2.074	2.891	14.1	19.5	5 31	19 40.64	-16 29.0	2.110	2.920	14.1	20.9
6 10	19 41.35	-34 4.5	1.987	2.885	11.4	19.3	6 10	19 37.06	-16 59.9	2.030	2.926	11.2	20.7
6 20	19 34.56	-34 27.9	1.922	2.879	8.4	19.1	6 20	19 31.38	-17 40.1	1.971	2.932	7.9	20.5
6 30	19 25.76	-34 43.7	1.881	2.872	5.5	18.9	6 30	19 24.10	-18 27.5	1.936	2.938	4.1	20.2
7 10	19 15.86	-34 47.6	1.866	2.866	4.4	18.8	7 10	19 15.94	-19 19.1	1.929	2.945	1.0	20.0
7 20	19 5.98	-34 37.8	1.877	2.860	6.3	18.9	7 20	19 7.77	-20 11.4	1.949	2.951	4.0	20.3
7 30	18 57.24	-34 14.3	1.914	2.854	9.4	19.1	7 30	19 0.47	-21 1.5	1.996	2.958	7.7	20.5
8 9	18 50.58	-33 39.8	1.975	2.849	12.4	19.3	8 9	18 54.81	-21 47.1	2.068	2.964	11.0	20.7
310505	2000 WA ₁₇		7 9.6 258°37	6°4/ 10.9 18			385765	2005 YC ₁₁₄		7 9.6 49°64	1°9/ 9.0 17		
5 31	19 41.45	-4 40.3	2.490	3.									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
308986	2006 UK ₁₀		7 9.6 180°67	4.6/11.3	18		292795	2006 UO ₂₂₈		7 9.7 243°48	0.6/ 9.8	18	
5 31	19 40.66	- 8 16.4	2.395	3.172	13.6	21.1	5 31	19 46.34	-20 22.8	1.847	2.661	15.7	21.1
6 10	19 36.72	- 7 51.5	2.307	3.172	11.2	20.9	6 10	19 42.13	-20 22.2	1.749	2.648	12.6	20.9
6 20	19 30.97	- 7 36.8	2.239	3.173	8.6	20.7	6 20	19 35.26	-20 27.0	1.671	2.634	8.8	20.6
6 30	19 23.83	- 7 33.3	2.195	3.173	6.1	20.6	6 30	19 26.23	-20 35.5	1.617	2.620	4.6	20.3
7 10	19 15.96	- 7 41.0	2.178	3.173	4.6	20.5	7 10	19 15.91	-20 45.4	1.589	2.606	0.6	20.0
7 20	19 8.07	- 7 59.2	2.188	3.172	5.5	20.6	7 20	19 5.41	-20 54.7	1.589	2.591	4.8	20.3
7 30	19 0.91	- 8 25.9	2.225	3.172	7.9	20.7	7 30	18 55.92	-21 1.9	1.614	2.575	9.2	20.5
8 9	18 55.14	- 8 58.9	2.287	3.171	10.6	20.9	8 9	18 48.47	-21 6.6	1.664	2.559	13.2	20.7
38024	1998 OB		7 9.6 326°87	4.6/11.3	18		41752	2000 VF ₃₀		7 9.7 226°10	6.1/11.0	18	
5 31	19 38.24	- 9 20.8	2.001	2.799	15.2	19.0	5 31	19 43.05	- 7 49.7	1.985	2.768	15.8	19.2
6 10	19 35.32	- 9 4.9	1.908	2.789	12.6	18.8	6 10	19 39.04	- 6 57.4	1.896	2.764	13.2	19.0
6 20	19 30.29	- 9 1.1	1.836	2.780	9.5	18.6	6 20	19 32.82	- 6 15.7	1.827	2.760	10.3	18.8
6 30	19 23.61	- 9 10.4	1.786	2.771	6.5	18.4	6 30	19 24.87	- 5 46.9	1.782	2.755	7.6	18.6
7 10	19 15.97	- 9 32.5	1.762	2.763	4.6	18.2	7 10	19 15.97	- 5 32.5	1.761	2.751	6.1	18.5
7 20	19 8.23	-10 5.8	1.764	2.755	5.8	18.3	7 20	19 7.01	- 5 32.6	1.767	2.746	7.1	18.6
7 30	19 1.30	-10 47.8	1.791	2.747	8.8	18.5	7 30	18 58.96	- 5 46.0	1.799	2.741	9.8	18.7
8 9	18 55.98	-11 35.1	1.842	2.740	12.0	18.6	8 9	18 52.62	- 6 9.9	1.853	2.736	12.7	18.9
405105	2002 BJ ₂₆		7 9.6 230°54	9.7/ 6.9	17		8632	Egleston		7 9.7 0°57	9.3/12.9	18	
5 31	20 6.33	-48 31.8	2.187	2.944	15.3	22.9	5 31	19 37.08	- 2 9.9	1.411	2.213	20.2	17.8
6 10	19 58.75	-49 32.6	2.091	2.927	13.4	22.7	6 10	19 35.16	- 1 22.6	1.339	2.211	17.4	17.6
6 20	19 47.23	-50 22.8	2.014	2.908	11.5	22.5	6 20	19 30.58	- 0 56.2	1.283	2.210	14.2	17.4
6 30	19 32.39	-50 52.7	1.962	2.889	10.1	22.4	6 30	19 23.88	- 0 55.3	1.246	2.209	11.2	17.2
7 10	19 15.65	-50 54.0	1.934	2.868	9.8	22.4	7 10	19 16.01	- 1 21.5	1.230	2.210	9.4	17.1
7 20	18 58.84	-50 23.0	1.932	2.845	10.9	22.4	7 20	19 8.10	- 2 13.3	1.237	2.212	10.0	17.1
7 30	18 43.93	-49 21.5	1.955	2.822	12.9	22.5	7 30	19 1.34	- 3 25.8	1.266	2.214	12.4	17.3
8 9	18 32.35	-47 56.5	2.000	2.797	15.2	22.6	8 9	18 56.74	- 4 51.8	1.316	2.218	15.6	17.5
350352	2012 UE ₁₁₉		7 9.6 318°47	3.3/ 8.4	18		5307	Paul-André		7 9.7 225°16	3.3/ 8.5	18 R	
5 31	19 42.86	-27 36.9	1.774	2.606	15.5	20.7	5 31	19 47.21	-27 44.7	1.837	2.659	15.5	17.9
6 10	19 39.63	-28 25.5	1.689	2.598	12.4	20.4	6 10	19 43.02	-28 32.6	1.748	2.652	12.4	17.7
6 20	19 33.64	-29 17.6	1.624	2.591	8.7	20.2	6 20	19 35.99	-29 23.6	1.681	2.644	8.8	17.4
6 30	19 25.42	-30 8.1	1.584	2.584	5.1	20.0	6 30	19 26.64	-30 12.8	1.637	2.637	5.1	17.2
7 10	19 15.90	-30 51.6	1.568	2.578	3.4	19.9	7 10	19 15.91	-30 54.5	1.619	2.629	3.3	17.1
7 20	19 6.25	-31 23.8	1.579	2.572	6.2	20.0	7 20	19 5.01	-31 24.4	1.628	2.620	6.1	17.2
7 30	18 57.73	-31 42.7	1.615	2.566	10.0	20.2	7 30	18 55.26	-31 40.8	1.663	2.611	10.0	17.4
8 9	18 51.40	-31 49.0	1.673	2.560	13.6	20.4	8 9	18 47.74	-31 44.6	1.721	2.602	13.6	17.6
136631	1994 RR ₆		7 9.7 230°81	0.9/ 9.9	18		373736	2002 TQ ₂₇		7 9.7 294°10	1.9/10.1	17	
5 31	19 45.77	-19 14.9	1.953	2.763	15.1	21.6	5 31	19 42.89	-17 54.5	1.521	2.352	17.7	20.9
6 10	19 41.46	-19 16.0	1.856	2.752	12.1	21.4	6 10	19 40.07	-17 44.4	1.421	2.329	14.4	20.6
6 20	19 34.67	-19 23.1	1.780	2.742	8.5	21.1	6 20	19 34.26	-17 42.4	1.340	2.306	10.3	20.3
6 30	19 25.87	-19 34.9	1.728	2.731	4.4	20.9	6 30	19 25.91	-17 48.0	1.280	2.283	5.6	20.0
7 10	19 15.91	-19 49.1	1.703	2.719	0.9	20.6	7 10	19 15.94	-17 59.6	1.245	2.260	1.9	19.7
7 20	19 5.79	-20 3.7	1.705	2.707	4.6	20.8	7 20	19 5.59	-18 14.9	1.235	2.237	5.7	19.9
7 30	18 56.64	-20 17.1	1.734	2.694	8.8	21.0	7 30	18 56.31	-18 31.8	1.248	2.215	10.7	20.1
8 9	18 49.40	-20 28.5	1.787	2.681	12.6	21.2	8 9	18 49.35	-18 48.8	1.284	2.192	15.4	20.3
257657	1999 VE		7 9.7 225°84	0.8/ 9.9	18		164231	2004 RC ₃₃₅		7 9.7 55°56	6.4/ 8.8	17	
5 31	19 46.82	-19 31.1	1.975	2.783	15.0	21.9	5 31	19 51.40	-34 43.0	1.262	2.104	20.0	19.4
6 10	19 42.28	-19 34.6	1.877	2.772	12.0	21.7	6 10	19 47.42	-35 14.7	1.201	2.112	16.2	19.2
6 20	19 35.24	-19 44.0	1.799	2.761	8.5	21.5	6 20	19 39.47	-35 40.8	1.158	2.120	12.0	19.0
6 30	19 26.17	-19 57.8	1.746	2.749	4.4	21.2	6 30	19 28.42	-35 53.3	1.136	2.129	8.0	18.8
7 10	19 15.90	-20 13.6	1.720	2.736	0.8	20.9	7 10	19 15.86	-35 45.8	1.137	2.138	6.4	18.7
7 20	19 5.46	-20 29.3	1.721	2.722	4.6	21.2	7 20	19 3.70	-35 16.1	1.161	2.148	8.8	18.9
7 30	18 55.98	-20 43.2	1.749	2.708	8.8	21.4	7 30	18 53.74	-34 27.2	1.208	2.157	12.8	19.1
8 9	18 48.41	-20 54.6	1.802	2.693	12.6	21.6	8 9	18 47.17	-33 25.4	1.275	2.167	16.7	19.4
107023	2000 YV ₁₁₆		7 9.7 204°33	2.9/ 9.0	18		70649	1999 TB ₂₄₆		7 9.7 210°78	3.1/10.8	18	
5 31	19 48.25	-28 3.8	1.586	2.416	17.1	19.4	5 31	19 42.81	-11 52.2	2.456	3.239	13.1	20.4
6 10	19 44.09	-28 23.5	1.507	2.415	13.7	19.2	6 10	19 38.47	-11 46.5	2.357	3.232	10.7	20.2
6 20	19 36.80	-28 44.0	1.447	2.414	9.6	18.9	6 20	19 32.25	-11 49.5	2.280	3.225	7.9	20.0
6 30	19 27.02	-29 0.6	1.410	2.412	5.3	18.7	6 30	19 24.55	-12 1.4	2.228	3.217	5.0	19.8
7 10	19 15.87	-29 8.7	1.398	2.411	2.9	18.5	7 10	19 16.01	-12 21.3	2.203	3.209	3.1	19.7
7 20	19 4.75	-29 5.7	1.412	2.409	6.2	18.7	7 20	19 7.37	-12 47.8	2.206	3.200	4.6	19.7
7 30	18 55.10	-28 51.3	1.451	2.407	10.5	19.0	7 30	18 59.43	-13 19.0	2.237	3.191	7.5	19.9
8 9	18 48.03	-28 28.0	1.512	2.405	14.5	19.2	8 9	18 52.90	-13 52.8	2.294	3.181	10.4	20.1
480685	2015 PV ₄₅		7 9.7 47°67	0.8/10.0	18		469994	2006 KU ₁₃		7 9.7 23°40	4.3/ 7.7	17	
5 31	19 40.29	-17 13.1	2.284	3.091	13.3	20.7	5 31	19 41.52	-25 27.1	1.394	2.243	18.0	20.2
6 10	19 36.66	-17 40.1	2.198	3.093	10.5	20.5	6 10	19 39.14	-27 6.2	1.333	2.253	14.3	20.0
6 20	19 31.06	-18 14.9	2.134	3.095	7.4	20.3	6 20	19 33.60	-28 53.6	1.291	2.263	10.0	19.8
6 30	19 23.95	-18 56.0	2.094	3.096	3.9	20.1	6 30	19 25.50	-30 40.8	1.273	2.274	5.9	19.6
7 10	19 16.00	-19 40.5	2.082	3.098	0.8	19.9	7 10	19 15.97	-32 18.5	1.279	2.287	4.5	19.5
7 20	19 8.00	-20 25.6	2.098	3.100	3.8	20.1	7 20	19 6.42	-33 38.8	1.310	2.300	7.6	19.7
7 30	19 0.80	-21 8.9	2.142	3.102	7.3	20.3	7 30	18 58.35	-34 37.8	1.364	2.314	11.6	20.0
8 9	18 55.10	-21 48.3	2.210	3.104	10.5	20.5	8 9	18 52.92	-35 15.9	1.440	2.328	15.3	20.3
182816	2002 AK ₁₅₁		7 9.7 94°53	1.9/ 9.1	18		120036	2003 AM ₈₉		7 9.7 343°08	9.7/ 2.9	18	
5 31	19 44.27	-27 57.1	2.286	3.0									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
184367	2005 <i>JC</i> ₁₁₀		7 9.7 58°91	0°8/ 9.9 17			67149	2000 <i>AA</i> ₁₈₇		7 9.7 245°47	2°4/10.6 18		
5 31	19 44.26	-18 7.8	1.399	2.233	18.7	21.1	5 31	19 43.04	-13 30.0	2.349	3.139	13.4	19.4
6 10	19 40.93	-18 28.8	1.334	2.244	14.9	20.9	6 10	19 38.90	-13 37.8	2.240	3.122	10.9	19.2
6 20	19 34.58	-19 0.6	1.287	2.255	10.4	20.7	6 20	19 32.72	-13 54.8	2.153	3.104	7.9	19.0
6 30	19 25.89	-19 40.5	1.262	2.267	5.3	20.4	6 30	19 24.88	-14 20.7	2.090	3.085	4.7	18.8
7 10	19 15.97	-20 24.2	1.262	2.278	0.8	20.1	7 10	19 16.03	-14 53.9	2.055	3.066	2.4	18.6
7 20	19 6.16	-21 7.2	1.287	2.290	5.4	20.5	7 20	19 6.97	-15 32.5	2.049	3.047	4.4	18.7
7 30	18 57.83	-21 46.1	1.336	2.302	10.2	20.8	7 30	18 58.57	-16 13.8	2.070	3.027	7.8	18.8
8 9	18 52.01	-22 19.0	1.407	2.314	14.4	21.1	8 9	18 51.62	-16 55.7	2.116	3.006	11.1	19.0
185940	2000 <i>WU</i> ₁₄₂		7 9.7 232°53	7°6/12.7 18			396072	2013 <i>CJ</i> ₇₄		7 9.7 85°05	3°6/11.4 18		
5 31	19 39.71	+ 4 46.0	3.023	3.722	12.6	21.5	5 31	19 40.00	- 9 36.2	2.293	3.079	13.8	21.0
6 10	19 35.67	+ 5 31.7	2.920	3.708	11.2	21.4	6 10	19 36.30	- 9 41.3	2.211	3.086	11.3	20.9
6 20	19 30.13	+ 6 4.5	2.836	3.694	9.7	21.2	6 20	19 30.74	- 9 58.0	2.151	3.094	8.4	20.7
6 30	19 23.43	+ 6 22.0	2.775	3.680	8.3	21.1	6 30	19 23.78	-10 26.1	2.115	3.101	5.5	20.5
7 10	19 16.06	+ 6 22.5	2.740	3.665	7.6	21.1	7 10	19 16.08	-11 4.3	2.105	3.109	3.6	20.4
7 20	19 8.58	+ 6 5.8	2.729	3.649	7.9	21.0	7 20	19 8.38	-11 50.2	2.123	3.116	4.8	20.5
7 30	19 1.59	+ 5 33.0	2.745	3.633	8.9	21.1	7 30	19 1.47	-12 41.0	2.168	3.124	7.6	20.7
8 9	18 55.66	+ 4 46.8	2.784	3.616	10.5	21.2	8 9	18 56.00	-13 33.7	2.238	3.131	10.4	20.9
341394	2007 <i>TO</i> ₁₃₈		7 9.7 261°34	1°4/ 9.3 18			259763	2004 <i>BR</i> ₄		7 9.7 279°01	1°7/10.2 18		
5 31	19 48.00	-27 3.8	2.398	3.201	12.8	21.8	5 31	19 44.77	-16 25.8	1.687	2.504	16.8	21.2
6 10	19 42.92	-27 1.6	2.283	3.176	10.3	21.6	6 10	19 41.41	-16 39.1	1.576	2.475	13.7	20.9
6 20	19 35.54	-26 58.9	2.190	3.151	7.2	21.3	6 20	19 35.18	-17 3.8	1.483	2.445	9.8	20.6
6 30	19 26.30	-26 53.0	2.123	3.125	3.8	21.1	6 30	19 26.43	-17 39.1	1.413	2.415	5.4	20.3
7 10	19 15.96	-26 41.7	2.084	3.099	1.5	20.8	7 10	19 15.98	-18 22.3	1.369	2.384	1.7	20.0
7 20	19 5.42	-26 23.7	2.074	3.072	4.4	21.0	7 20	19 4.96	-19 9.7	1.351	2.353	5.4	20.2
7 30	18 55.71	-25 59.1	2.092	3.044	8.0	21.2	7 30	18 54.77	-19 57.6	1.358	2.321	10.4	20.4
8 9	18 47.70	-25 29.2	2.135	3.016	11.4	21.3	8 9	18 46.67	-20 42.8	1.388	2.289	15.0	20.5
154790	2004 <i>PO</i> ₆₂		7 9.7 276°74	1°2/ 9.4 18			98820	2000 <i>YL</i> ₁₃₀		7 9.7 321°55	5°4/ 6.1 18		
5 31	19 43.61	-26 7.7	2.328	3.141	12.9	20.3	5 31	19 42.91	-22 34.8	1.391	2.235	18.3	18.3
6 10	19 39.39	-26 6.8	2.229	3.129	10.2	20.1	6 10	19 41.05	-25 8.6	1.290	2.208	14.8	18.0
6 20	19 33.02	-26 6.2	2.153	3.116	7.1	19.9	6 20	19 35.74	-28 8.0	1.210	2.182	10.5	17.7
6 30	19 24.98	-26 3.7	2.101	3.104	3.7	19.6	6 30	19 27.12	-31 23.7	1.156	2.157	6.5	17.4
7 10	19 16.01	-25 57.3	2.077	3.092	1.2	19.4	7 10	19 15.94	-34 40.5	1.128	2.132	5.9	17.3
7 20	19 7.00	-25 45.8	2.080	3.079	4.2	19.6	7 20	19 3.60	-37 41.3	1.127	2.108	9.8	17.4
7 30	18 58.85	-25 29.1	2.111	3.067	7.7	19.8	7 30	18 52.03	-40 13.0	1.151	2.085	14.7	17.6
8 9	18 52.36	-25 8.0	2.167	3.055	10.9	20.0	8 9	18 43.18	-42 10.3	1.195	2.064	19.2	17.8
427512	2002 <i>EZ</i> ₁₀₄		7 9.7 85°25	1°1/ 9.3 17			360440	2002 <i>JY</i> ₁₃₀		7 9.7 90°53	2°4/ 8.5 18		
5 31	19 46.49	-22 44.6	1.825	2.644	15.7	21.6	5 31	19 43.92	-26 53.0	2.512	3.321	12.2	20.8
6 10	19 41.91	-23 17.5	1.762	2.665	12.3	21.4	6 10	19 39.33	-27 45.6	2.445	3.341	9.6	20.7
6 20	19 34.83	-23 55.4	1.721	2.686	8.4	21.0	6 20	19 32.79	-28 39.8	2.400	3.361	6.7	20.5
6 30	19 25.86	-24 34.4	1.703	2.707	4.2	21.0	6 30	19 24.79	-29 31.8	2.382	3.382	3.7	20.4
7 10	19 15.99	-25 10.5	1.712	2.728	1.1	20.8	7 10	19 16.05	-30 18.1	2.392	3.401	2.4	20.3
7 20	19 6.30	-25 40.6	1.748	2.748	4.7	21.1	7 20	19 7.37	-30 55.8	2.431	3.421	4.5	20.5
7 30	18 57.88	-26 3.0	1.811	2.768	8.7	21.4	7 30	18 59.58	-31 23.5	2.497	3.440	7.3	20.7
8 9	18 51.56	-26 17.7	1.898	2.788	12.1	21.6	8 9	18 53.36	-31 41.6	2.588	3.460	9.9	20.9
281014	2006 <i>EC</i> ₂₁		7 9.7 359°48	2°6/ 9.0 16			476154	2007 <i>TE</i> ₃₃₄		7 9.7 161°53	4°7/11.0 17		
5 31	19 44.24	-27 27.1	1.618	2.453	16.6	21.0	5 31	19 42.48	- 9 17.6	2.298	3.078	14.0	21.2
6 10	19 40.82	-27 45.9	1.541	2.452	13.2	20.8	6 10	19 38.22	- 8 39.0	2.213	3.081	11.6	21.1
6 20	19 34.48	-28 5.9	1.483	2.452	9.3	20.5	6 20	19 32.05	- 8 9.6	2.148	3.083	8.8	20.9
6 30	19 25.85	-28 22.9	1.448	2.451	5.0	20.3	6 30	19 24.44	- 7 50.7	2.107	3.086	6.2	20.7
7 10	19 15.99	-28 32.9	1.438	2.451	2.6	20.1	7 10	19 16.08	- 7 42.8	2.093	3.088	4.7	20.7
7 20	19 6.16	-28 33.4	1.454	2.452	5.8	20.3	7 20	19 7.72	- 7 45.5	2.107	3.090	5.8	20.7
7 30	18 57.70	-28 23.8	1.494	2.453	10.0	20.6	7 30	19 0.18	- 7 57.7	2.147	3.092	8.3	20.9
8 9	18 51.62	-28 5.9	1.557	2.454	13.9	20.8	8 9	18 54.12	- 8 17.2	2.211	3.093	11.0	21.1
146062	2000 <i>FU</i> ₂₂		7 9.7 184°10	1°2/ 9.3 18			475161	2005 <i>UH</i> ₄₀₈		7 9.7 16°76	4°8/ 7.7 18		
5 31	19 47.41	-23 54.0	2.066	2.876	14.4	21.0	5 31	19 44.20	-33 49.8	2.225	3.040	13.3	21.4
6 10	19 42.61	-24 19.2	1.979	2.876	11.4	20.8	6 10	19 40.18	-34 46.1	2.145	3.041	10.8	21.2
6 20	19 35.37	-24 48.1	1.913	2.876	7.9	20.6	6 20	19 33.75	-35 40.6	2.088	3.041	8.0	21.1
6 30	19 26.20	-25 17.5	1.872	2.876	4.0	20.3	6 30	19 25.42	-36 28.3	2.055	3.042	5.6	20.9
7 10	19 15.98	-25 44.0	1.859	2.874	1.2	20.1	7 10	19 16.04	-37 4.4	2.048	3.042	4.9	20.9
7 20	19 5.71	-26 4.7	1.874	2.872	4.6	20.4	7 20	19 6.62	-37 25.7	2.069	3.043	6.6	21.0
7 30	18 56.47	-26 18.3	1.915	2.870	8.5	20.6	7 30	18 58.22	-37 31.6	2.115	3.044	9.3	21.2
8 9	18 49.15	-26 24.8	1.982	2.867	11.9	20.8	8 9	18 51.74	-37 23.7	2.184	3.044	11.9	21.3
238584	2004 <i>XR</i> ₁₈₁		7 9.7 143°20	4°4/ 7.8 18 R			242663	2005 <i>RV</i> ₇		7 9.7 329°25	5°7/11.6 18		
5 31	19 48.48	-33 20.4	2.444	3.246	12.6	21.3	5 31	19 38.62	- 7 13.2	1.967	2.758	15.6	20.2
6 10	19 43.20	-34 18.8	2.370	3.258	10.2	21.2	6 10	19 35.66	- 6 45.2	1.877	2.751	13.1	20.0
6 20	19 35.63	-35 15.5	2.319	3.269	7.5	21.0	6 20	19 30.57	- 6 30.0	1.807	2.743	10.2	19.8
6 30	19 26.28	-36 5.3	2.293	3.280	5.1	20.9	6 30	19 23.81	- 6 29.5	1.759	2.736	7.4	19.6
7 10	19 15.98	-36 43.9	2.296	3.290	4.4	20.9	7 10	19 16.11	- 6 44.2	1.736	2.729	5.7	19.5
7 20	19 5.71	-37 8.4	2.326	3.299	6.1	21.0	7 20	19 8.31	- 7 12.8	1.739	2.723	6.6	19.6
7 30	18 56.45	-37 18.2	2.383	3.308	8.6	21.2	7 30	19 1.35	- 7 52.9	1.766	2.717	9.3	19.7
8 9	18 49.03	-37 15.0	2.465	3.316	11.1	21.4	8 9	18 56.02	- 8 41.0	1.817	2.711	12.4	19.9
27018	1998 <i>KQ</i> ₅₂		7 9.7 129°30	3°1/10.7 18 R			140115	2001 <i>ST</i> ₁₃₇	</				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
211645	2003 <i>UB</i> ₂₁₂	7 9.7 324°51	5°5/ 7.9 18				499597	2010 <i>TD</i> ₉₉	7 9.7 209°86	4°4/10.9 17			
5 31	19 40.64	-28 44.6	1.195	2.057	19.6	19.6	5 31	19 44.29	-11 29.6	1.628	2.436	17.7	22.2
6 10	19 39.43	-29 52.4	1.114	2.040	15.8	19.3	6 10	19 40.62	-11 10.8	1.545	2.434	14.5	22.0
6 20	19 34.51	-31 6.8	1.050	2.023	11.5	19.0	6 20	19 34.27	-11 4.6	1.480	2.431	10.8	21.8
6 30	19 26.32	-32 20.1	1.007	2.008	7.2	18.8	6 30	19 25.78	-11 11.8	1.438	2.429	6.9	21.5
7 10	19 16.02	-33 22.8	0.986	1.993	5.7	18.6	7 10	19 16.08	-11 31.8	1.420	2.426	4.5	21.4
7 20	19 5.31	-34 6.7	0.987	1.979	9.0	18.8	7 20	19 6.29	-12 2.6	1.427	2.423	6.3	21.5
7 30	18 56.19	-34 28.2	1.009	1.966	13.9	19.0	7 30	18 57.63	-12 41.1	1.460	2.420	10.1	21.7
8 9	18 50.24	-34 28.6	1.050	1.954	18.5	19.2	8 9	18 51.10	-13 23.8	1.516	2.416	14.0	21.9
70449	Gruebel	7 9.7 160°78	0°6/ 9.5 18				168089	2006 <i>DM</i> ₈₄	7 9.7 23°04	1°1/ 9.9 17			
5 31	19 48.30	-22 45.9	1.865	2.679	15.6	19.6	5 31	19 44.24	-19 37.7	1.243	2.089	20.0	20.3
6 10	19 43.47	-22 58.7	1.785	2.684	12.3	19.4	6 10	19 41.41	-19 32.7	1.174	2.091	16.0	20.0
6 20	19 36.04	-23 15.5	1.725	2.689	8.5	19.2	6 20	19 35.23	-19 36.2	1.123	2.094	11.2	19.8
6 30	19 26.57	-23 33.7	1.690	2.694	4.3	19.0	6 30	19 26.37	-19 46.3	1.092	2.097	5.8	19.5
7 10	19 16.03	-23 50.0	1.681	2.697	0.6	18.7	7 10	19 16.06	-20 0.2	1.085	2.101	1.1	19.2
7 20	19 5.53	-24 2.0	1.700	2.701	4.7	19.0	7 20	19 5.82	-20 14.8	1.101	2.105	5.9	19.5
7 30	18 56.23	-24 8.6	1.746	2.703	8.9	19.3	7 30	18 57.21	-20 28.1	1.140	2.109	11.2	19.8
8 9	18 49.04	-24 10.0	1.815	2.706	12.5	19.5	8 9	18 51.39	-20 39.0	1.200	2.114	15.8	20.1
25992	Benjamensun	7 9.7 309°27	6°3/11.2 18				357868	2005 <i>UQ</i> ₃₃₀	7 9.7 95°35	3°4/10.4 17			
5 31	19 39.67	- 9 28.7	1.403	2.225	19.3	18.0	5 31	19 45.54	-15 15.9	1.320	2.151	19.8	21.5
6 10	19 37.59	- 8 53.6	1.310	2.205	16.2	17.7	6 10	19 42.20	-14 56.3	1.247	2.153	16.1	21.2
6 20	19 32.59	- 8 33.1	1.234	2.185	12.5	17.4	6 20	19 35.67	-14 48.0	1.192	2.155	11.6	21.0
6 30	19 25.12	- 8 30.1	1.179	2.166	8.7	17.1	6 30	19 26.57	-14 51.3	1.157	2.157	6.8	20.7
7 10	19 16.07	- 8 45.8	1.145	2.147	6.3	16.9	7 10	19 16.07	-15 4.5	1.146	2.159	3.4	20.5
7 20	19 6.69	- 9 19.3	1.135	2.129	7.9	17.0	7 20	19 5.57	-15 25.4	1.160	2.161	6.3	20.7
7 30	18 58.36	-10 7.3	1.148	2.111	11.9	17.1	7 30	18 56.57	-15 51.0	1.196	2.162	11.1	21.0
8 9	18 52.34	-11 4.6	1.182	2.093	16.2	17.3	8 9	18 50.20	-16 18.7	1.254	2.164	15.6	21.2
180122	2003 <i>FL</i> ₅₃	7 9.7 122°98	0°2/ 9.8 18				440541	2005 <i>UH</i> ₁₈₆	7 9.7 230°80	2°8/ 8.4 18			
5 31	19 42.42	-19 20.2	2.524	3.326	12.3	20.7	5 31	19 43.24	-29 28.0	2.715	3.521	11.4	21.9
6 10	19 38.08	-19 48.7	2.445	3.337	9.7	20.5	6 10	19 38.92	-30 8.1	2.618	3.512	9.1	21.7
6 20	19 31.91	-20 22.9	2.388	3.349	6.7	20.3	6 20	19 32.65	-30 48.8	2.544	3.503	6.5	21.5
6 30	19 24.37	-21 0.6	2.357	3.360	3.4	20.1	6 30	19 24.84	-31 26.7	2.496	3.493	3.9	21.4
7 10	19 16.11	-21 39.4	2.355	3.371	0.2	19.9	7 10	19 16.14	-31 58.5	2.477	3.483	2.8	21.3
7 20	19 7.87	-22 16.6	2.381	3.382	3.5	20.2	7 20	19 7.33	-32 21.6	2.485	3.473	4.7	21.4
7 30	19 0.42	-22 50.4	2.435	3.392	6.8	20.4	7 30	18 59.24	-32 34.9	2.522	3.462	7.4	21.5
8 9	18 54.39	-23 19.8	2.515	3.402	9.6	20.6	8 9	18 52.60	-32 38.9	2.583	3.451	10.1	21.7
32275	Limichael	7 9.7 137°79	0°8/ 9.9 18				187643	2007 <i>CU</i> ₄₅	7 9.7 155°45	3°6/11.3 18			
5 31	19 44.38	-18 38.1	1.800	2.618	15.9	19.3	5 31	19 39.68	- 9 34.2	2.457	3.239	13.1	20.7
6 10	19 40.45	-18 51.7	1.721	2.621	12.7	19.1	6 10	19 35.98	- 9 31.8	2.368	3.240	10.8	20.5
6 20	19 33.99	-19 13.1	1.661	2.625	8.8	18.9	6 20	19 30.52	- 9 39.9	2.301	3.242	8.1	20.3
6 30	19 25.57	-19 40.5	1.625	2.628	4.6	18.7	6 30	19 23.72	- 9 58.7	2.258	3.243	5.4	20.2
7 10	19 16.07	-20 10.7	1.615	2.632	0.8	18.4	7 10	19 16.19	-10 27.1	2.243	3.244	3.7	20.1
7 20	19 6.57	-20 41.0	1.632	2.635	4.6	18.7	7 20	19 8.64	-11 3.5	2.254	3.246	4.7	20.1
7 30	18 58.18	-21 9.0	1.675	2.638	8.8	18.9	7 30	19 1.78	-11 45.7	2.293	3.247	7.3	20.3
8 9	18 51.80	-21 33.2	1.742	2.640	12.6	19.2	8 9	18 56.26	-12 30.9	2.358	3.248	10.1	20.5
159408	1999 <i>NU</i> ₅₃	7 9.7 339°06	6°3/10.2 17				84879	2003 <i>BX</i> ₈₈	7 9.7 45°42	7°1/12.3 17			
5 31	19 39.39	-13 27.1	1.335	2.172	19.3	18.8	5 31	19 39.79	- 3 20.6	1.977	2.750	16.2	19.4
6 10	19 37.36	-12 7.9	1.251	2.158	16.0	18.5	6 10	19 36.40	- 2 40.0	1.903	2.758	13.7	19.2
6 20	19 32.35	-10 55.3	1.186	2.144	12.1	18.3	6 20	19 30.96	- 2 14.4	1.849	2.767	11.0	19.0
6 30	19 24.92	- 9 53.1	1.141	2.132	8.3	18.0	6 30	19 23.97	- 2 6.3	1.816	2.776	8.6	18.9
7 10	19 16.09	- 9 4.6	1.118	2.121	6.3	17.9	7 10	19 16.18	- 2 16.4	1.807	2.785	7.2	18.8
7 20	19 7.13	- 8 32.1	1.119	2.111	8.2	17.9	7 20	19 8.44	- 2 43.8	1.824	2.794	7.7	18.9
7 30	18 59.45	- 8 16.0	1.142	2.102	12.2	18.1	7 30	19 1.61	- 3 25.8	1.866	2.803	9.8	19.0
8 9	18 54.17	- 8 14.3	1.185	2.095	16.3	18.4	8 9	18 56.40	- 4 18.1	1.931	2.813	12.3	19.2
196313	2003 <i>FF</i> ₃₁	7 9.7 202°47	2°7/ 8.8 17				168642	2000 <i>DT</i> ₃₆	7 9.7 342°52	1°6/10.2 16			
5 31	19 49.34	-25 29.9	1.651	2.474	16.8	21.4	5 31	19 41.58	-16 52.6	1.889	2.705	15.3	20.1
6 10	19 45.00	-26 20.1	1.566	2.471	13.4	21.1	6 10	19 38.14	-16 58.3	1.805	2.704	12.3	19.9
6 20	19 37.55	-27 16.0	1.501	2.467	9.4	20.9	6 20	19 32.37	-17 12.3	1.741	2.703	8.7	19.7
6 30	19 27.54	-28 12.2	1.460	2.463	5.1	20.6	6 30	19 24.77	-17 33.7	1.700	2.701	4.7	19.4
7 10	19 16.00	-29 2.5	1.445	2.458	2.8	20.4	7 10	19 16.16	-18 0.3	1.685	2.700	1.6	19.2
7 20	19 4.29	-29 41.8	1.456	2.452	6.2	20.6	7 20	19 7.49	-18 29.4	1.697	2.699	4.5	19.4
7 30	18 53.85	-30 7.5	1.493	2.445	10.6	20.9	7 30	18 59.81	-18 58.9	1.735	2.699	8.5	19.6
8 9	18 45.91	-30 20.3	1.553	2.438	14.6	21.1	8 9	18 53.96	-19 26.8	1.797	2.698	12.1	19.9
353569	2011 <i>SO</i> ₂₄₅	7 9.7 280°24	0°4/ 9.8 18				40391	1999 <i>NR</i> ₅₂	7 9.7 195°37	5°9/11.2 18			
5 31	19 41.71	-19 49.7	2.075	2.891	14.1	21.1	5 31	19 43.85	- 6 52.5	2.206	2.976	14.8	18.9
6 10	19 38.12	-20 3.3	1.982	2.882	11.3	20.9	6 10	19 39.44	- 6 4.7	2.116	2.974	12.4	18.7
6 20	19 32.30	-20 23.0	1.910	2.874	7.9	20.7	6 20	19 33.01	- 5 27.2	2.046	2.972	9.7	18.6
6 30	19 24.71	-20 47.2	1.862	2.866	4.0	20.4	6 30	19 25.01	- 5 2.3	2.000	2.969	7.2	18.4
7 10	19 16.10	-21 13.3	1.841	2.857	0.4	20.1	7 10	19 16.15	- 4 51.0	1.980	2.966	5.9	18.3
7 20	19 7.39	-21 38.8	1.847	2.849	4.2	20.4	7 20	19 7.25	- 4 53.3	1.987	2.962	6.8	18.4
7 30	18 59.54	-22 1.9	1.879	2.841	8.1	20.6	7 30	18 59.16	- 5 8.0	2.020	2.958	9.1	18.5
8 9	18 53.41	-22 21.4	1.936	2.832	11.6	20.8	8 9	18 52.63	- 5 32.6	2.078	2.954	11.8	18.7
128546	2004 <i>PF</i> ₇₂	7 9.7 295°64	0°6/ 9.9 18				285157	1995 <i>VY</i> ₁₂	7 9.7 195°00	8°6/12.4 18			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
91123	1998 <i>HP</i> ₁₁₄		7 9.7 169°38	6°0/ 6.9 18			435753	2008 <i>UZ</i> ₁₇₈		7 9.7 337°94	6°6/10.1 18		
5 31	19 46.96	-33 2.8	1.839	2.662	15.4	18.4	5 31	19 40.66	-12 49.6	1.375	2.206	19.2	20.0
6 10	19 43.05	-34 31.4	1.763	2.662	12.5	18.2	6 10	19 38.28	-11 24.5	1.291	2.193	15.9	19.7
6 20	19 36.19	-36 1.0	1.708	2.663	9.4	18.0	6 20	19 32.96	-10 5.8	1.226	2.181	12.2	19.5
6 30	19 26.86	-37 23.8	1.677	2.663	6.7	17.9	6 30	19 25.26	-8 57.6	1.181	2.170	8.5	19.2
7 10	19 16.09	-38 32.2	1.672	2.663	6.2	17.8	7 10	19 16.20	-8 3.8	1.160	2.160	6.6	19.1
7 20	19 5.15	-39 20.9	1.693	2.663	8.2	17.9	7 20	19 7.02	-7 26.7	1.161	2.150	8.4	19.2
7 30	18 55.43	-39 48.0	1.739	2.663	11.2	18.1	7 30	18 59.11	-7 7.1	1.186	2.142	12.2	19.4
8 9	18 48.09	-39 55.6	1.807	2.663	14.2	18.3	8 9	18 53.55	-7 3.1	1.230	2.135	16.2	19.6
21918	1999 <i>VN</i> ₄₅		7 9.7 128°62	7°4/ 6.9 18			78931	2003 <i>SN</i> ₁₄₂		7 9.7 274°80	1°4/10.2 18		
5 31	19 54.01	-43 54.8	2.450	3.230	13.2	19.5	5 31	19 42.18	-17 13.8	1.924	2.738	15.1	19.9
6 10	19 47.92	-45 3.2	2.388	3.246	11.2	19.3	6 10	19 38.70	-17 22.6	1.830	2.729	12.2	19.7
6 20	19 39.06	-46 3.3	2.348	3.262	9.2	19.2	6 20	19 32.84	-17 39.9	1.757	2.719	8.6	19.5
6 30	19 28.10	-46 48.4	2.332	3.278	7.8	19.2	6 30	19 25.08	-18 4.4	1.708	2.710	4.6	19.2
7 10	19 16.06	-47 13.7	2.343	3.292	7.5	19.2	7 10	19 16.21	-18 33.8	1.685	2.700	1.4	19.0
7 20	19 4.17	-47 17.0	2.379	3.307	8.5	19.3	7 20	19 7.19	-19 5.4	1.688	2.690	4.5	19.2
7 30	18 53.65	-46 59.3	2.441	3.320	10.2	19.4	7 30	18 59.08	-19 36.9	1.718	2.681	8.6	19.4
8 9	18 45.43	-46 24.4	2.526	3.333	12.1	19.6	8 9	18 52.79	-20 6.4	1.772	2.671	12.3	19.6
106759	2000 <i>XT</i> ₆		7 9.7 227°41	3°8/ 7.7 18			379350	2009 <i>WG</i> ₁₃₂		7 9.7 201°16	5°8/ 6.8 18		
5 31	19 45.22	-34 20.5	3.132	3.926	10.3	20.0	5 31	19 49.63	-33 58.1	2.147	2.954	14.0	21.6
6 10	19 40.33	-35 6.1	3.030	3.913	8.4	19.8	6 10	19 44.87	-35 28.4	2.061	2.951	11.4	21.4
6 20	19 33.55	-35 50.0	2.952	3.899	6.2	19.7	6 20	19 37.32	-36 59.4	1.998	2.947	8.6	21.2
6 30	19 25.30	-36 28.6	2.901	3.884	4.4	19.5	6 30	19 27.45	-38 23.8	1.961	2.942	6.4	21.1
7 10	19 16.16	-36 58.4	2.878	3.869	3.8	19.5	7 10	19 16.15	-39 34.6	1.951	2.937	5.9	21.1
7 20	19 6.89	-37 17.2	2.883	3.854	5.2	19.6	7 20	19 4.56	-40 26.8	1.968	2.932	7.7	21.2
7 30	18 58.27	-37 24.2	2.917	3.838	7.3	19.7	7 30	18 53.99	-40 58.3	2.012	2.926	10.5	21.3
8 9	18 51.00	-37 20.3	2.975	3.821	9.5	19.8	8 9	18 45.54	-41 10.8	2.078	2.919	13.2	21.5
205040	1998 <i>SO</i> ₄₇		7 9.7 278°97	2°1/10.3 18			283739	2002 <i>XO</i> ₃₄		7 9.7 318°67	1°2/ 9.5 18		
5 31	19 42.25	-16 37.5	1.953	2.765	15.0	20.9	5 31	19 44.59	-26 42.4	1.701	2.532	16.1	19.5
6 10	19 38.65	-16 27.6	1.860	2.756	12.1	20.7	6 10	19 41.09	-26 25.2	1.606	2.516	12.9	19.3
6 20	19 32.73	-16 24.9	1.788	2.748	8.6	20.4	6 20	19 34.75	-26 6.7	1.532	2.500	9.0	19.0
6 30	19 24.98	-16 29.1	1.740	2.739	4.9	20.2	6 30	19 26.12	-25 44.6	1.480	2.484	4.7	18.7
7 10	19 16.19	-16 38.8	1.717	2.731	2.1	20.0	7 10	19 16.19	-25 16.7	1.454	2.470	1.3	18.5
7 20	19 7.30	-16 52.4	1.722	2.722	4.7	20.2	7 20	19 6.18	-24 42.5	1.453	2.455	5.2	18.7
7 30	18 59.33	-17 8.4	1.752	2.714	8.6	20.4	7 30	18 57.39	-24 2.9	1.478	2.441	9.7	18.9
8 9	18 53.15	-17 25.2	1.807	2.706	12.2	20.6	8 9	18 50.86	-23 20.3	1.526	2.428	13.8	19.1
364701	2007 <i>UR</i> ₆₇		7 9.7 2°69	7°3/11.2 17			37785	1997 <i>SL</i> ₁₅		7 9.7 211°88	0°2/ 9.8 18		
5 31	19 34.61	-11 21.5	0.924	1.793	23.5	19.9	5 31	19 48.47	-20 58.3	1.821	2.633	15.9	20.1
6 10	19 34.49	-10 19.5	0.865	1.790	19.5	19.6	6 10	19 43.85	-21 3.2	1.729	2.627	12.7	19.8
6 20	19 30.83	-9 34.1	0.822	1.788	14.8	19.4	6 20	19 36.51	-21 13.4	1.657	2.620	8.9	19.6
6 30	19 24.30	-9 9.9	0.795	1.789	10.2	19.1	6 30	19 26.98	-21 26.9	1.609	2.612	4.6	19.3
7 10	19 16.21	-9 9.1	0.787	1.792	7.4	19.0	7 10	19 16.17	-21 40.8	1.587	2.604	0.3	18.9
7 20	19 8.17	-9 30.3	0.799	1.796	9.2	19.1	7 20	19 5.24	-21 52.8	1.593	2.595	4.8	19.3
7 30	19 1.85	-10 9.1	0.830	1.803	13.6	19.4	7 30	18 55.42	-22 1.4	1.626	2.585	9.3	19.5
8 9	18 58.50	-10 58.7	0.878	1.811	18.1	19.6	8 9	18 47.73	-22 6.3	1.682	2.575	13.2	19.8
179445	2002 <i>AS</i> ₁₄₃		7 9.7 205°46	0°8/ 9.9 18			488513	2000 <i>WL</i> ₂₉		7 9.7 210°16	15°9/10.4 18		
5 31	19 41.48	-18 57.7	2.286	3.094	13.2	20.7	5 31	19 49.32	+ 2 0.7	1.230	2.005	24.1	21.2
6 10	19 37.63	-19 4.0	2.198	3.093	10.5	20.5	6 10	19 45.42	+ 4 39.4	1.161	2.002	21.5	21.0
6 20	19 31.79	-19 15.9	2.131	3.093	7.3	20.3	6 20	19 38.11	+ 7 1.0	1.107	1.998	18.9	20.8
6 30	19 24.42	-19 32.0	2.090	3.092	3.8	20.1	6 30	19 27.96	+ 8 54.0	1.071	1.995	16.8	20.6
7 10	19 16.21	-19 50.4	2.075	3.091	0.8	19.9	7 10	19 16.14	+10 8.8	1.056	1.990	15.9	20.6
7 20	19 7.98	-20 9.4	2.089	3.091	3.8	20.1	7 20	19 4.14	+10 39.9	1.060	1.985	16.6	20.6
7 30	19 0.58	-20 27.3	2.130	3.090	7.4	20.3	7 30	18 53.60	+10 28.1	1.083	1.980	18.7	20.7
8 9	18 54.71	-20 43.3	2.195	3.089	10.5	20.5	8 9	18 45.84	+ 9 40.7	1.124	1.974	21.3	20.9
107873	2001 <i>FV</i> ₈₇		7 9.7 69°34	1°0/ 9.4 17			14568	<i>Zanotta</i>		7 9.7 10°27	5°6/11.2 18		
5 31	19 46.25	-21 54.7	1.436	2.271	18.3	19.8	5 31	19 40.90	-10 31.0	1.339	2.166	19.8	17.6
6 10	19 42.50	-22 28.3	1.375	2.286	14.5	19.6	6 10	19 38.42	-10 0.5	1.267	2.166	16.4	17.4
6 20	19 35.69	-23 9.2	1.332	2.302	10.0	19.4	6 20	19 33.00	-9 45.1	1.213	2.168	12.3	17.1
6 30	19 26.51	-23 53.3	1.312	2.317	5.0	19.1	6 30	19 25.25	-9 47.0	1.179	2.170	8.2	16.9
7 10	19 16.15	-24 35.2	1.316	2.332	1.0	18.9	7 10	19 16.23	-10 5.8	1.168	2.172	5.7	16.8
7 20	19 5.96	-25 10.8	1.346	2.348	5.5	19.2	7 20	19 7.19	-10 39.3	1.180	2.176	7.3	16.9
7 30	18 57.32	-25 37.6	1.401	2.363	10.2	19.6	7 30	18 59.50	-11 23.7	1.215	2.179	11.2	17.1
8 9	18 51.23	-25 55.5	1.477	2.379	14.2	19.8	8 9	18 54.20	-12 14.2	1.272	2.184	15.3	17.4
481248	2005 <i>WR</i> ₁₅₃		7 9.7 259°83	2°2/ 8.6 18			72372	2001 <i>CY</i> ₄		7 9.7 142°37	2°5/ 8.9 18		
5 31	19 42.64	-26 20.5	2.488	3.299	12.2	21.7	5 31	19 50.08	-26 54.4	1.884	2.697	15.4	20.2
6 10	19 38.67	-27 6.2	2.387	3.285	9.7	21.5	6 10	19 44.95	-27 27.8	1.809	2.708	12.2	20.0
6 20	19 32.64	-27 55.2	2.308	3.271	6.8	21.3	6 20	19 37.11	-28 3.1	1.756	2.719	8.5	19.8
6 30	19 24.92	-28 44.0	2.256	3.256	3.8	21.1	6 30	19 27.18	-28 35.7	1.728	2.729	4.7	19.6
7 10	19 16.21	-29 28.9	2.231	3.242	2.3	21.0	7 10	19 16.18	-29 1.4	1.726	2.738	2.5	19.4
7 20	19 7.29	-30 6.6	2.234	3.227	4.6	21.1	7 20	19 5.26	-29 17.1	1.752	2.747	5.4	19.7
7 30	18 59.09	-30 35.3	2.265	3.212	7.8	21.3	7 30	18 55.63	-29 22.1	1.804	2.754	9.2	19.9
8 9	18 52.39	-30 54.6	2.320	3.196	10.8	21.4	8 9	18 48.22	-29 17.6	1.880	2.762	12.6	20.1
133086	2003 <i>MN</i> ₅		7 9.7 28°22	5°5/11.1 17			385524	2004 <i>MR</i> ₈		7 9.7 305°57	9°7/ 7.0		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
444037	2004 <i>PG</i> ₅₁		7 9.7 341°36	10°0/ 8.6 18			120483	1993 <i>BW</i> ₈		7 9.7 37°14	0°4/ 9.6 17		
5 31	19 47.83	-45 13.0	1.549	2.368	17.9	20.0	5 31	19 42.68	-20 59.7	1.497	2.334	17.6	19.6
6 10	19 44.81	-45 44.6	1.466	2.350	15.4	19.7	6 10	19 39.59	-21 24.1	1.432	2.345	13.9	19.4
6 20	19 37.92	-46 2.7	1.401	2.333	12.8	19.5	6 20	19 33.67	-21 56.0	1.386	2.356	9.6	19.2
6 30	19 27.88	-45 58.6	1.356	2.317	10.7	19.4	6 30	19 25.54	-22 32.3	1.362	2.367	4.8	19.0
7 10	19 16.16	-45 25.1	1.333	2.303	10.0	19.3	7 10	19 16.28	-23 8.6	1.363	2.379	0.4	18.6
7 20	19 4.60	-44 20.2	1.333	2.289	11.3	19.3	7 20	19 7.14	-23 41.2	1.389	2.392	5.1	19.0
7 30	18 55.02	-42 47.2	1.355	2.277	13.9	19.4	7 30	18 59.37	-24 7.7	1.439	2.405	9.7	19.3
8 9	18 48.73	-40 54.2	1.398	2.267	16.9	19.6	8 9	18 53.95	-24 27.2	1.512	2.418	13.7	19.6
260116	2004 <i>PK</i> ₂₇		7 9.7 290°38	3°6/ 8.7 18			112673	2002 <i>PA</i> ₉₅		7 9.7 273°95	2°1/ 10.4 18		
5 31	19 44.74	-32 10.8	2.236	3.050	13.3	20.3	5 31	19 43.26	-15 10.7	1.619	2.438	17.3	19.9
6 10	19 40.56	-32 32.6	2.144	3.041	10.7	20.1	6 10	19 40.12	-15 24.8	1.524	2.425	14.0	19.6
6 20	19 34.03	-32 52.1	2.074	3.033	7.7	19.9	6 20	19 34.21	-15 51.4	1.449	2.411	10.1	19.4
6 30	19 25.64	-33 5.5	2.029	3.024	4.9	19.8	6 30	19 25.96	-16 29.7	1.396	2.397	5.6	19.1
7 10	19 16.25	-33 9.3	2.011	3.015	3.7	19.7	7 10	19 16.27	-17 16.9	1.368	2.383	2.1	18.8
7 20	19 6.82	-33 1.7	2.019	3.006	5.6	19.8	7 20	19 6.29	-18 9.0	1.366	2.369	5.3	19.0
7 30	18 58.40	-32 42.5	2.054	2.998	8.7	19.9	7 30	18 57.32	-19 2.0	1.389	2.355	10.0	19.2
8 9	18 51.84	-32 13.7	2.113	2.989	11.7	20.1	8 9	18 50.52	-19 52.4	1.435	2.340	14.3	19.4
441016	2007 <i>EY</i> ₈₃		7 9.7 193°25	5°0/ 12.2 18			355713	2008 <i>FY</i> ₁₂₅		7 9.7 28°04	1°8/ 8.8 18		
5 31	19 39.15	-4 42.8	2.593	3.353	13.1	21.1	5 31	19 41.18	-22 12.0	1.862	2.689	15.1	19.6
6 10	19 35.49	-4 34.9	2.501	3.353	11.0	20.9	6 10	19 38.00	-23 20.8	1.790	2.698	11.9	19.4
6 20	19 30.17	-4 39.3	2.431	3.352	8.6	20.7	6 20	19 32.39	-24 37.3	1.739	2.707	8.2	19.2
6 30	19 23.59	-4 56.9	2.384	3.351	6.4	20.6	6 30	19 24.87	-25 56.9	1.713	2.717	4.2	19.0
7 10	19 16.32	-5 27.5	2.364	3.350	5.0	20.5	7 10	19 16.30	-27 13.9	1.713	2.728	1.9	18.9
7 20	19 8.99	-6 9.4	2.371	3.349	5.6	20.6	7 20	19 7.70	-28 23.0	1.741	2.739	5.1	19.1
7 30	19 2.31	-7 0.5	2.405	3.347	7.6	20.7	7 30	19 0.13	-29 20.8	1.795	2.750	8.9	19.4
8 9	18 56.86	-7 57.4	2.464	3.346	10.0	20.8	8 9	18 54.50	-30 6.0	1.872	2.762	12.3	19.6
61832	2000 <i>QL</i> ₁₉₆		7 9.7 85°50	1°6/ 9.4 18			382489	2001 <i>FW</i> ₁₀₈		7 9.7 42°60	4°5/ 8.7 17		
5 31	19 46.87	-25 44.0	1.704	2.529	16.3	19.0	5 31	19 46.64	-32 13.3	1.622	2.454	16.7	20.5
6 10	19 42.63	-25 52.6	1.630	2.537	12.9	18.8	6 10	19 42.72	-32 43.2	1.559	2.465	13.4	20.3
6 20	19 35.61	-26 3.0	1.577	2.544	9.0	18.6	6 20	19 35.79	-33 10.3	1.515	2.477	9.7	20.1
6 30	19 26.46	-26 11.7	1.547	2.551	4.6	18.4	6 30	19 26.58	-33 29.0	1.494	2.490	6.1	19.9
7 10	19 16.23	-26 15.6	1.543	2.558	1.6	18.2	7 10	19 16.26	-33 34.9	1.498	2.503	4.6	19.9
7 20	19 6.13	-26 12.6	1.566	2.566	5.2	18.4	7 20	19 6.19	-33 25.8	1.528	2.516	6.9	20.0
7 30	18 57.39	-26 2.6	1.613	2.573	9.4	18.7	7 30	18 57.68	-33 2.5	1.582	2.530	10.4	20.3
8 9	18 50.93	-25 46.8	1.685	2.580	13.1	19.0	8 9	18 51.69	-32 28.3	1.658	2.544	13.8	20.5
11338	Schiele		7 9.7 345°57	1°8/ 9.2 18			352290	2007 <i>TY</i> ₄₁₃		7 9.7 209°83	1°8/ 10.6 18		
5 31	19 36.61	-21 57.8	1.060	1.933	20.8	17.4	5 31	19 42.56	-14 30.3	2.559	3.347	12.5	22.1
6 10	19 36.21	-22 40.0	0.988	1.921	16.6	17.1	6 10	19 38.31	-14 44.5	2.460	3.341	10.1	21.9
6 20	19 32.23	-23 34.3	0.932	1.912	11.6	16.8	6 20	19 32.21	-15 6.8	2.382	3.335	7.2	21.7
6 30	19 25.18	-24 36.3	0.896	1.903	6.0	16.4	6 30	19 24.68	-15 36.5	2.331	3.328	4.1	21.5
7 10	19 16.26	-25 38.7	0.880	1.896	1.8	16.1	7 10	19 16.32	-16 11.6	2.307	3.320	1.8	21.3
7 20	19 7.12	-26 34.1	0.887	1.890	7.0	16.4	7 20	19 7.85	-16 50.1	2.312	3.312	3.8	21.5
7 30	18 59.60	-27 17.2	0.914	1.886	12.7	16.7	7 30	19 0.04	-17 29.8	2.346	3.303	7.0	21.7
8 9	18 55.17	-27 46.3	0.960	1.884	17.8	17.0	8 9	18 53.58	-18 8.8	2.405	3.294	9.9	21.8
205602	2001 <i>UT</i> ₂₅		7 9.7 245°37	3°6/ 9.0 17			325041	2008 <i>CZ</i> ₁₀₈		7 9.7 44°55	4°1/ 10.9 17		
5 31	19 50.71	-29 35.8	1.559	2.386	17.5	20.5	5 31	19 42.83	-12 54.0	1.368	2.195	19.5	20.6
6 10	19 46.43	-29 55.8	1.469	2.375	14.1	20.2	6 10	19 39.79	-12 37.7	1.304	2.206	15.8	20.4
6 20	19 38.78	-30 15.5	1.399	2.363	10.1	19.9	6 20	19 33.84	-12 35.2	1.258	2.217	11.5	20.1
6 30	19 28.31	-30 29.6	1.351	2.351	5.9	19.7	6 30	19 25.64	-12 46.7	1.233	2.229	7.1	19.9
7 10	19 16.18	-30 32.9	1.328	2.339	3.6	19.5	7 10	19 16.29	-13 10.7	1.231	2.241	4.1	19.8
7 20	19 3.90	-30 22.1	1.331	2.326	6.7	19.7	7 20	19 7.08	-13 44.2	1.254	2.253	6.3	19.9
7 30	18 53.10	-29 57.5	1.358	2.312	11.2	19.9	7 30	18 59.30	-14 23.6	1.300	2.266	10.5	20.2
8 9	18 45.04	-29 22.1	1.408	2.299	15.5	20.1	8 9	18 53.92	-15 5.1	1.368	2.279	14.5	20.5
257145	2008 <i>HW</i> ₉		7 9.7 0°85	0°7/ 9.5 18			349783	2009 <i>BR</i> ₄₉		7 9.7 246°82	0°6/ 9.9 18		
5 31	19 39.74	-22 57.1	1.784	2.618	15.4	20.3	5 31	19 42.77	-19 1.9	2.100	2.911	14.1	21.6
6 10	19 36.94	-23 9.7	1.705	2.616	12.2	20.1	6 10	19 38.98	-19 17.4	2.006	2.903	11.3	21.4
6 20	19 31.68	-23 26.7	1.646	2.615	8.4	19.9	6 20	19 32.95	-19 39.7	1.933	2.895	7.9	21.2
6 30	19 24.51	-23 45.6	1.610	2.615	4.3	19.6	6 30	19 25.14	-20 7.1	1.884	2.887	4.1	20.9
7 10	19 16.30	-24 3.5	1.600	2.616	0.7	19.3	7 10	19 16.31	-20 37.1	1.863	2.879	0.6	20.7
7 20	19 8.09	-24 17.8	1.615	2.618	4.7	19.6	7 20	19 7.36	-21 7.0	1.869	2.871	4.2	20.9
7 30	19 0.98	-24 27.2	1.656	2.620	8.8	19.9	7 30	18 59.26	-21 34.7	1.902	2.863	8.1	21.1
8 9	18 55.82	-24 31.3	1.720	2.623	12.5	20.1	8 9	18 52.86	-21 59.0	1.959	2.854	11.6	21.3
383928	2008 <i>SR</i> ₁₈₈		7 9.7 302°46	1°2/ 9.9 17			213853	2003 <i>SG</i> ₈₁		7 9.7 312°37	4°4/ 8.5 17		
5 31	19 42.63	-19 32.3	1.663	2.491	16.5	21.2	5 31	19 43.83	-28 36.2	1.307	2.158	18.9	19.9
6 10	19 39.53	-19 23.3	1.569	2.475	13.3	20.9	6 10	19 41.63	-29 21.4	1.223	2.143	15.2	19.6
6 20	19 33.71	-19 20.4	1.494	2.461	9.4	20.6	6 20	19 35.86	-30 10.4	1.158	2.129	10.9	19.3
6 30	19 25.65	-19 22.4	1.442	2.446	5.0	20.4	6 30	19 27.01	-30 56.8	1.113	2.115	6.5	19.1
7 10	19 16.27	-19 27.7	1.415	2.431	1.2	20.1	7 10	19 16.25	-31 33.3	1.092	2.102	4.5	18.9
7 20	19 6.70	-19 34.3	1.414	2.417	5.1	20.3	7 20	19 5.20	-31 54.0	1.094	2.089	7.9	19.1
7 30	18 58.20	-19 40.9	1.438	2.403	9.7	20.5	7 30	18 55.68	-31 57.0	1.118	2.076	12.6	19.3
8 9	18 51.83	-19 46.6	1.484	2.389	13.9	20.7	8 9	18 49.14	-31 44.3	1.162	2.064	17.2	19.5
335488	2005 <i>WZ</i> ₂₀₃		7 9.7 29°04	0°7/ 9.6 18			177911	2005 <i>SF</i> ₁₁₇		7 9.7 2			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
236560	2006 <i>HO</i> ₆₉		7 9.7 52°18	4.7/11.5	18		326861	2003 <i>UK</i> ₂₀₇		7 9.7 251°38	2°0/ 9.2	17	
5 31	19 41.48	-9 29.6	1.717	2.520	17.1	20.4	5 31	19 47.46	-25 33.6	1.645	2.472	16.7	21.4
6 10	19 38.11	-9 18.3	1.647	2.531	14.0	20.2	6 10	19 43.57	-25 54.2	1.554	2.461	13.4	21.2
6 20	19 32.37	-9 21.3	1.595	2.542	10.5	20.0	6 20	19 36.66	-26 18.2	1.483	2.450	9.4	20.9
6 30	19 24.82	-9 39.1	1.566	2.553	7.0	19.8	6 30	19 27.23	-26 41.8	1.434	2.438	5.0	20.6
7 10	19 16.33	-10 10.4	1.562	2.565	4.8	19.7	7 10	19 16.31	-27 0.5	1.412	2.426	2.0	20.4
7 20	19 7.91	-10 52.8	1.583	2.577	6.1	19.8	7 20	19 5.21	-27 10.8	1.415	2.414	5.7	20.6
7 30	19 0.59	-11 42.6	1.630	2.589	9.3	20.0	7 30	18 55.34	-27 11.5	1.443	2.402	10.3	20.9
8 9	18 55.18	-12 35.8	1.700	2.601	12.7	20.3	8 9	18 47.89	-27 3.7	1.494	2.389	14.5	21.1
450017	2015 <i>PF</i> ₃₁₀		7 9.7 348°46	3°2/11.3	18		60419	2000 <i>CY</i> ₂₈		7 9.7 159°04	0°6/ 9.9	18	
5 31	19 38.91	-10 18.3	2.052	2.850	14.9	20.4	5 31	19 46.87	-19 27.0	1.923	2.732	15.3	19.4
6 10	19 35.87	-10 40.1	1.963	2.847	12.1	20.2	6 10	19 42.29	-19 36.3	1.842	2.738	12.2	19.2
6 20	19 30.77	-11 15.6	1.894	2.844	9.0	20.0	6 20	19 35.25	-19 52.0	1.781	2.743	8.5	19.0
6 30	19 24.03	-12 4.4	1.849	2.841	5.6	19.8	6 30	19 26.31	-20 12.1	1.745	2.748	4.4	18.8
7 10	19 16.35	-13 4.2	1.830	2.839	3.3	19.6	7 10	19 16.35	-20 34.0	1.735	2.752	0.6	18.5
7 20	19 8.58	-14 11.6	1.839	2.837	4.8	19.7	7 20	19 6.40	-20 55.2	1.753	2.755	4.4	18.8
7 30	19 1.60	-15 22.5	1.874	2.835	8.1	19.9	7 30	18 57.53	-21 14.0	1.798	2.758	8.5	19.1
8 9	18 56.20	-16 33.1	1.933	2.834	11.4	20.1	8 9	18 50.62	-21 29.5	1.867	2.761	12.1	19.3
371937	2008 <i>EH</i> ₁₀₄		7 9.7 327°00	2°3/10.5	17		425549	2010 <i>RM</i> ₁₀₃		7 9.7 252°19	3°7/ 8.8	17	
5 31	19 39.33	-15 2.3	1.306	2.148	19.4	20.6	5 31	19 49.09	-29 27.9	1.682	2.506	16.5	22.2
6 10	19 37.61	-15 16.7	1.222	2.135	15.8	20.3	6 10	19 44.97	-29 59.4	1.589	2.493	13.3	22.0
6 20	19 32.79	-15 46.5	1.155	2.123	11.3	20.0	6 20	19 37.71	-30 31.9	1.516	2.479	9.6	21.7
6 30	19 25.36	-16 31.0	1.109	2.111	6.3	19.7	6 30	19 27.80	-31 0.1	1.466	2.465	5.7	21.4
7 10	19 16.31	-17 26.8	1.085	2.100	2.3	19.5	7 10	19 16.31	-31 18.4	1.441	2.450	3.8	21.3
7 20	19 6.98	-18 28.9	1.086	2.090	5.9	19.6	7 20	19 4.60	-31 23.2	1.442	2.435	6.6	21.4
7 30	18 58.89	-19 31.7	1.109	2.081	11.1	19.9	7 30	18 54.17	-31 13.5	1.469	2.420	10.8	21.6
8 9	18 53.32	-20 30.8	1.153	2.072	16.0	20.2	8 9	18 46.26	-30 51.7	1.518	2.404	14.8	21.8
469909	2005 <i>YR</i> ₄₂		7 9.7 87°73	0°7/ 9.8	17		478406	2012 <i>CB</i>		7 9.7 235°78	1°5/10.2	18	
5 31	19 48.55	-22 5.4	1.808	2.623	15.9	21.1	5 31	19 42.46	-17 59.7	2.682	3.476	11.8	22.0
6 10	19 43.53	-21 37.7	1.738	2.638	12.6	21.0	6 10	19 38.14	-17 43.9	2.579	3.466	9.5	21.8
6 20	19 35.98	-21 12.3	1.689	2.652	8.8	20.8	6 20	19 32.05	-17 31.9	2.500	3.456	6.7	21.6
6 30	19 26.56	-20 48.1	1.664	2.667	4.5	20.5	6 30	19 24.61	-17 23.5	2.446	3.445	3.7	21.4
7 10	19 16.29	-20 24.2	1.665	2.682	0.7	20.3	7 10	19 16.41	-17 17.8	2.420	3.434	1.5	21.2
7 20	19 6.27	-20 0.2	1.694	2.696	4.6	20.6	7 20	19 8.15	-17 14.1	2.423	3.423	3.6	21.3
7 30	18 57.57	-19 36.6	1.749	2.710	8.6	20.9	7 30	19 0.56	-17 12.0	2.455	3.412	6.7	21.5
8 9	18 51.00	-19 14.2	1.829	2.724	12.2	21.1	8 9	18 54.29	-17 10.9	2.512	3.400	9.6	21.7
67588	2000 <i>SS</i> ₁₂₇		7 9.7 202°98	2°6/10.6	18		507192	2010 <i>RM</i> ₁₄₆		7 9.7 298°68	0°4/ 9.8	17	
5 31	19 45.89	-14 1.3	1.781	2.586	16.5	19.5	5 31	19 43.25	-20 38.5	1.374	2.216	18.6	22.3
6 10	19 41.78	-14 7.3	1.692	2.582	13.4	19.3	6 10	19 40.88	-20 41.2	1.277	2.193	15.1	22.0
6 20	19 35.09	-14 24.7	1.623	2.579	9.7	19.0	6 20	19 35.23	-20 51.7	1.198	2.169	10.7	21.6
6 30	19 26.30	-14 52.9	1.577	2.574	5.6	18.8	6 30	19 26.72	-21 8.1	1.140	2.146	5.6	21.3
7 10	19 16.31	-15 29.6	1.557	2.570	2.7	18.6	7 10	19 16.35	-21 27.2	1.106	2.122	0.4	20.8
7 20	19 6.17	-16 11.9	1.564	2.564	5.2	18.7	7 20	19 5.51	-21 45.7	1.095	2.099	5.9	21.2
7 30	18 57.07	-16 56.4	1.597	2.558	9.3	19.0	7 30	18 55.87	-22 1.0	1.108	2.076	11.5	21.4
8 9	18 49.98	-17 40.3	1.654	2.552	13.2	19.2	8 9	18 48.83	-22 12.1	1.141	2.054	16.6	21.6
33945	2000 <i>MR</i>		7 9.7 23°83	2°1/10.2	18		24828	1995 <i>SE</i> ₁		7 9.7 253°04	2°7/10.4	18	
5 31	20 9.13	-36 57.3	1.040	1.870	24.1	17.7	5 31	19 45.15	-15 51.7	1.698	2.512	16.8	19.1
6 10	20 1.52	-34 53.4	0.972	1.878	19.6	17.4	6 10	19 41.43	-15 36.4	1.604	2.501	13.7	18.9
6 20	19 49.03	-32 24.1	0.923	1.887	14.0	17.1	6 20	19 34.99	-15 29.7	1.530	2.489	9.9	18.6
6 30	19 33.12	-29 26.7	0.895	1.897	7.5	16.8	6 30	19 26.34	-15 31.4	1.478	2.477	5.7	18.4
7 10	19 16.15	-26 6.8	0.894	1.909	2.1	16.5	7 10	19 16.37	-15 40.4	1.452	2.464	2.7	18.2
7 20	19 0.57	-22 39.2	0.919	1.922	7.1	16.9	7 20	19 6.20	-15 55.0	1.451	2.452	5.4	18.3
7 30	18 48.35	-19 21.9	0.971	1.936	13.2	17.2	7 30	18 57.09	-16 13.3	1.476	2.439	9.8	18.5
8 9	18 40.47	-16 27.9	1.045	1.950	18.4	17.6	8 9	18 50.07	-16 33.5	1.524	2.425	13.9	18.7
190527	2000 <i>QB</i> ₁₈₀		7 9.7 279°61	6°5/ 7.8	18		44502	1998 <i>XQ</i> ₂₇		7 9.7 275°44	4°6/ 7.8	18	
5 31	19 51.51	-37 12.9	1.946	2.755	15.2	20.9	5 31	19 46.73	-32 14.8	2.151	2.964	13.8	19.3
6 10	19 46.96	-37 58.1	1.837	2.725	12.6	20.6	6 10	19 42.64	-33 9.1	2.043	2.939	11.2	19.1
6 20	19 39.18	-38 39.9	1.748	2.694	9.8	20.4	6 20	19 35.88	-34 4.3	1.957	2.913	8.3	18.9
6 30	19 28.61	-39 11.4	1.682	2.663	7.3	20.2	6 30	19 26.85	-34 55.0	1.896	2.886	5.6	18.6
7 10	19 16.25	-39 25.8	1.642	2.631	6.6	20.1	7 10	19 16.36	-35 35.8	1.861	2.860	4.7	18.5
7 20	19 3.47	-39 18.7	1.628	2.598	8.4	20.1	7 20	19 5.49	-36 2.2	1.853	2.832	6.8	18.6
7 30	18 51.84	-38 49.7	1.639	2.565	11.6	20.2	7 30	18 55.48	-36 12.5	1.871	2.805	10.0	18.7
8 9	18 42.71	-38 2.4	1.673	2.532	15.0	20.4	8 9	18 47.44	-36 7.8	1.913	2.777	13.2	18.9
342749	2008 <i>WU</i> ₆₆		7 9.7 317°68	1°8/ 9.1	18		436503	2011 <i>FN</i> ₅		7 9.7 106°72	2°1/10.5	15	
5 31	19 42.65	-24 0.2	1.709	2.541	16.0	20.5	5 31	19 44.81	-15 15.0	1.843	2.651	15.9	22.1
6 10	19 39.56	-24 38.3	1.623	2.533	12.7	20.2	6 10	19 40.64	-15 21.5	1.770	2.663	12.8	21.9
6 20	19 33.74	-25 22.3	1.557	2.526	8.9	20.0	6 20	19 34.09	-15 37.7	1.717	2.675	9.1	21.7
6 30	19 25.70	-26 8.2	1.515	2.519	4.6	19.7	6 30	19 25.71	-16 2.5	1.688	2.687	5.1	21.5
7 10	19 16.34	-26 51.4	1.498	2.512	1.9	19.5	7 10	19 16.40	-16 33.5	1.685	2.698	2.1	21.3
7 20	19 6.84	-27 27.6	1.507	2.506	5.4	19.7	7 20	19 7.16	-17 8.0	1.708	2.709	4.7	21.5
7 30	18 58.45	-27 54.3	1.541	2.500	9.7	20.0	7 30	18 59.01	-17 43.3	1.759	2.720	8.5	21.8
8 9	18 52.23	-28 10.9	1.598	2.494	13.6	20.2	8 9	18 52.80	-18 17.3	1.833	2.731	12.1	22.0
250076	2002 <i>EL</i> ₁₃₅		7 9.7 189°20	0°4/ 9.6	18		186308	2002 <i>CL</i> ₁₈₄		7 9.7 181°			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
469946	2006 BG ₁₀₃	7 9.8 90°35	0°1/ 9.8 15				93302	2000 SJ ₂₀₆	7 9.8 34°24	3°9/ 8.7 18			
5 31	19 47.74	-21 24.5	1.948	2.757	15.1	22.3	5 31	19 44.89	-28 47.8	1.484	2.324	17.6	18.5
6 10	19 42.70	-21 29.7	1.885	2.782	11.9	22.1	6 10	19 41.68	-29 31.5	1.418	2.332	14.0	18.3
6 20	19 35.33	-21 39.2	1.843	2.806	8.2	21.9	6 20	19 35.34	-30 16.5	1.372	2.340	9.9	18.1
6 30	19 26.27	-21 50.7	1.826	2.829	4.1	21.7	6 30	19 26.53	-30 57.1	1.349	2.349	5.8	17.9
7 10	19 16.43	-22 1.8	1.836	2.853	0.1	21.4	7 10	19 16.45	-31 27.4	1.349	2.358	4.0	17.8
7 20	19 6.83	-22 10.6	1.874	2.875	4.2	21.8	7 20	19 6.48	-31 43.8	1.375	2.368	6.8	18.0
7 30	18 58.45	-22 16.4	1.938	2.898	8.0	22.1	7 30	18 58.05	-31 45.4	1.424	2.378	10.8	18.2
8 9	18 52.03	-22 18.9	2.028	2.920	11.4	22.4	8 9	18 52.23	-31 34.4	1.495	2.389	14.5	18.5
481421	2006 UX ₉₄	7 9.8 277°89	0°8/ 9.4 16				434758	2006 HP ₉₅	7 9.8 329°71	2°3/ 9.1 18			
5 31	19 42.39	-22 47.6	2.141	2.958	13.7	22.1	5 31	19 40.82	-25 35.9	1.526	2.370	17.0	21.2
6 10	19 38.77	-23 12.1	2.044	2.946	10.9	21.9	6 10	19 38.56	-26 2.2	1.438	2.355	13.6	20.9
6 20	19 32.89	-23 41.4	1.969	2.934	7.6	21.7	6 20	19 33.34	-26 32.8	1.369	2.341	9.5	20.7
6 30	19 25.20	-24 12.9	1.918	2.922	3.9	21.4	6 30	19 25.64	-27 3.8	1.323	2.327	5.1	20.4
7 10	19 16.46	-24 43.4	1.894	2.910	0.9	21.1	7 10	19 16.47	-27 30.5	1.300	2.314	2.3	20.2
7 20	19 7.56	-25 10.2	1.898	2.898	4.3	21.4	7 20	19 7.10	-27 48.9	1.302	2.302	6.0	20.4
7 30	18 59.50	-25 31.4	1.928	2.886	8.1	21.6	7 30	18 58.95	-27 57.1	1.328	2.291	10.6	20.6
8 9	18 53.14	-25 46.2	1.983	2.875	11.6	21.8	8 9	18 53.19	-27 55.6	1.375	2.280	14.8	20.8
94296	2001 DK ₁₀₁	7 9.8 214°89	4°1/ 8.0 18				126946	2002 FF ₂	7 9.8 28°52	5°9/ 11.6 17			
5 31	19 44.47	-33 42.6	2.535	3.343	12.1	20.1	5 31	19 39.89	-9 25.3	1.352	2.176	19.8	18.6
6 10	19 40.15	-34 25.4	2.449	3.340	9.8	19.9	6 10	19 37.44	-8 55.4	1.293	2.190	16.3	18.4
6 20	19 33.67	-35 6.3	2.385	3.337	7.2	19.7	6 20	19 32.21	-8 41.9	1.252	2.204	12.3	18.2
6 30	19 25.52	-35 40.9	2.347	3.335	4.9	19.6	6 30	19 24.87	-8 46.7	1.231	2.219	8.3	18.1
7 10	19 16.45	-36 5.5	2.336	3.332	4.2	19.5	7 10	19 16.50	-9 9.0	1.233	2.235	5.9	18.0
7 20	19 7.34	-36 17.9	2.352	3.329	5.8	19.6	7 20	19 8.29	-9 46.2	1.258	2.252	7.2	18.1
7 30	18 59.11	-36 17.3	2.395	3.325	8.2	19.8	7 30	19 1.45	-10 33.8	1.307	2.270	10.7	18.3
8 9	18 52.54	-36 5.3	2.462	3.322	10.8	19.9	8 9	18 56.89	-11 26.9	1.377	2.288	14.4	18.6
476071	2007 TV ₄	7 9.8 261°72	1°7/ 10.2 18				222617	2001 XS ₇₉	7 9.8 130°92	1°7/ 10.3 17			
5 31	19 42.81	-17 25.2	2.045	2.854	14.5	21.4	5 31	19 45.71	-17 3.4	2.005	2.809	15.0	21.1
6 10	19 39.03	-17 17.3	1.952	2.847	11.7	21.2	6 10	19 41.18	-17 1.0	1.928	2.819	12.0	20.9
6 20	19 33.02	-17 15.9	1.880	2.840	8.3	21.0	6 20	19 34.38	-17 5.7	1.871	2.829	8.4	20.7
6 30	19 25.24	-17 20.3	1.832	2.833	4.6	20.8	6 30	19 25.87	-17 16.4	1.839	2.839	4.6	20.5
7 10	19 16.47	-17 29.1	1.811	2.825	1.7	20.6	7 10	19 16.48	-17 31.5	1.834	2.848	1.7	20.3
7 20	19 7.61	-17 40.8	1.817	2.818	4.4	20.7	7 20	19 7.15	-17 48.9	1.856	2.857	4.4	20.5
7 30	18 59.65	-17 53.9	1.849	2.810	8.2	21.0	7 30	18 58.86	-18 7.0	1.905	2.865	8.1	20.8
8 9	18 53.40	-18 7.3	1.906	2.803	11.7	21.2	8 9	18 52.39	-18 24.5	1.979	2.873	11.5	21.0
234116	1999 VX ₂₂₄	7 9.8 252°27	4°1/ 11.0 18				386265	2008 GO ₆	7 9.8 192°21	2°8/ 10.7 17			
5 31	19 42.82	-10 34.8	2.180	2.966	14.5	21.0	5 31	19 46.02	-13 17.0	2.077	2.869	14.9	22.5
6 10	19 38.93	-10 15.6	2.076	2.951	11.9	20.8	6 10	19 41.48	-13 17.7	1.986	2.867	12.1	22.3
6 20	19 32.92	-10 6.3	1.992	2.935	9.0	20.5	6 20	19 34.68	-13 28.4	1.914	2.865	8.8	22.1
6 30	19 25.21	-10 7.7	1.933	2.919	6.0	20.3	6 30	19 26.09	-13 48.5	1.868	2.862	5.3	21.9
7 10	19 16.47	-10 19.7	1.900	2.902	4.1	20.2	7 10	19 16.48	-14 16.6	1.848	2.858	2.8	21.7
7 20	19 7.55	-10 41.2	1.893	2.885	5.5	20.2	7 20	19 6.78	-14 50.4	1.856	2.854	4.8	21.8
7 30	18 59.36	-11 10.5	1.914	2.867	8.6	20.4	7 30	18 57.96	-15 27.4	1.891	2.849	8.3	22.0
8 9	18 52.70	-11 45.0	1.959	2.849	11.8	20.6	8 9	18 50.87	-16 5.2	1.952	2.843	11.8	22.2
216637	2003 FV ₁₃₁	7 9.8 101°09	1°0/ 9.3 18				190030	2004 RC ₁	7 9.8 353°85	3°6/ 8.5 18			
5 31	19 42.47	-22 41.2	2.237	3.050	13.3	20.6	5 31	19 37.74	-24 44.3	1.192	2.057	19.4	19.2
6 10	19 38.59	-23 17.2	2.155	3.055	10.5	20.5	6 10	19 36.84	-25 49.8	1.121	2.050	15.5	19.0
6 20	19 32.61	-23 58.0	2.094	3.059	7.2	20.3	6 20	19 32.54	-27 4.9	1.068	2.045	10.9	18.7
6 30	19 24.99	-24 40.7	2.059	3.063	3.7	20.0	6 30	19 25.37	-28 23.1	1.035	2.041	6.0	18.4
7 10	19 16.48	-25 21.8	2.052	3.067	1.0	19.9	7 10	19 16.49	-29 35.8	1.025	2.038	3.7	18.2
7 20	19 7.95	-25 58.3	2.072	3.071	4.2	20.1	7 20	19 7.46	-30 35.6	1.038	2.036	7.5	18.5
7 30	19 0.28	-26 28.2	2.119	3.076	7.7	20.3	7 30	18 59.95	-31 17.9	1.073	2.036	12.4	18.7
8 9	18 54.25	-26 51.0	2.191	3.080	10.8	20.5	8 9	18 55.33	-31 42.2	1.127	2.038	16.9	19.0
37680	1995 FD ₂	7 9.8 1°46	5°0/ 11.3 18				17679	1997 AK ₄	7 9.8 206°57	0°1/ 9.8 18			
5 31	19 38.20	-11 10.9	1.123	1.970	21.6	18.6	5 31	19 42.95	-21 9.4	2.749	3.548	11.5	19.3
6 10	19 36.93	-10 59.3	1.055	1.968	17.8	18.3	6 10	19 38.52	-21 15.0	2.652	3.543	9.1	19.1
6 20	19 32.39	-11 6.5	1.003	1.967	13.2	18.0	6 20	19 32.34	-21 23.8	2.577	3.538	6.3	18.9
6 30	19 25.19	-11 34.0	0.970	1.967	8.4	17.8	6 30	19 24.80	-21 34.4	2.529	3.532	3.2	18.7
7 10	19 16.47	-12 20.0	0.958	1.968	5.1	17.6	7 10	19 16.52	-21 45.3	2.509	3.526	0.2	18.4
7 20	19 7.70	-13 20.1	0.969	1.970	7.2	17.7	7 20	19 8.19	-21 55.0	2.518	3.519	3.4	18.7
7 30	19 0.41	-14 27.9	1.001	1.973	11.9	18.0	7 30	19 0.55	-22 2.5	2.555	3.512	6.5	18.9
8 9	18 55.84	-15 37.2	1.053	1.978	16.5	18.3	8 9	18 54.22	-22 7.6	2.618	3.505	9.3	19.0
106434	2000 VV ₄₉	7 9.8 215°40	2°7/ 8.9 18				436276	2010 CJ ₁₄₄	7 9.8 173°27	4°5/ 7.8 18			
5 31	19 48.08	-26 38.5	1.624	2.452	16.9	19.7	5 31	19 48.62	-32 32.1	2.314	3.119	13.2	21.6
6 10	19 44.08	-27 13.0	1.541	2.448	13.5	19.5	6 10	19 43.66	-33 34.5	2.232	3.122	10.6	21.4
6 20	19 37.01	-27 50.8	1.478	2.444	9.5	19.2	6 20	19 36.26	-34 36.4	2.172	3.125	7.8	21.2
6 30	19 27.44	-28 27.2	1.438	2.440	5.2	19.0	6 30	19 26.92	-35 32.4	2.139	3.127	5.3	21.1
7 10	19 16.42	-28 56.7	1.424	2.436	2.8	18.8	7 10	19 16.47	-36 17.4	2.132	3.128	4.5	21.0
7 20	19 5.31	-29 15.6	1.435	2.432	6.1	19.0	7 20	19 5.93	-36 48.0	2.153	3.129	6.3	21.1
7 30	18 55.52	-29 22.3	1.471	2.427	10.4	19.2	7 30	18 56.39	-37 3.1	2.202	3.129	9.0	21.3
8 9	18 48.22	-29 18.1	1.530	2.422	14.4	19.5	8 9	18 48.75	-37 4.1	2.274	3.129	11.7	21.5
186983	2004 RW ₃₄₀	7 9.8 352°47	5°1/ 7.0 18				364072	2005 YZ ₁₄	7 9.8 52°24	0°6/ 9.7 17			
5 31	19 40.84	-28 57.2	1.										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
138570	2000 <i>QS</i> ₈₄		7 9.8 294°82	2°1/10.2	18		5444	Gautier		7 9.8 159°99	0°3/ 9.8	18	
5 31	19 43.95	-18 5.0	1.367	2.204	19.0	19.8	5 31	19 47.84	-20 22.3	1.906	2.715	15.4	18.3
6 10	19 41.24	-17 48.2	1.278	2.189	15.4	19.5	6 10	19 43.13	-20 33.9	1.825	2.721	12.3	18.1
6 20	19 35.34	-17 39.4	1.207	2.174	11.0	19.2	6 20	19 35.91	-20 51.3	1.764	2.727	8.5	17.9
6 30	19 26.73	-17 38.4	1.157	2.160	6.1	18.9	6 30	19 26.74	-21 12.4	1.728	2.732	4.4	17.7
7 10	19 16.47	-17 43.6	1.130	2.145	2.1	18.6	7 10	19 16.52	-21 34.1	1.719	2.736	0.3	17.3
7 20	19 5.94	-17 53.0	1.128	2.131	6.0	18.8	7 20	19 6.31	-21 54.1	1.738	2.739	4.5	17.7
7 30	18 56.69	-18 4.6	1.149	2.117	11.2	19.0	7 30	18 57.21	-22 10.6	1.783	2.742	8.6	17.9
8 9	18 50.02	-18 17.0	1.191	2.103	16.0	19.3	8 9	18 50.13	-22 23.1	1.852	2.745	12.2	18.2
506613	2006 <i>DW</i> ₄₈		7 9.8 140°60	1°6/10.3	17		345034	2005 <i>EA</i> ₁₆₅		7 9.8 173°08	2°1/10.5	16	
5 31	19 44.86	-16 25.0	2.177	2.976	14.1	22.6	5 31	19 42.81	-15 23.6	2.128	2.930	14.3	22.0
6 10	19 40.36	-16 32.5	2.097	2.986	11.3	22.4	6 10	19 38.88	-15 24.8	2.041	2.931	11.5	21.8
6 20	19 33.75	-16 47.6	2.038	2.995	8.0	22.2	6 20	19 32.83	-15 34.3	1.976	2.932	8.2	21.6
6 30	19 25.55	-17 9.0	2.004	3.004	4.4	22.0	6 30	19 25.14	-15 51.1	1.935	2.933	4.7	21.4
7 10	19 16.52	-17 34.7	1.998	3.012	1.6	21.8	7 10	19 16.56	-16 13.9	1.920	2.933	2.1	21.2
7 20	19 7.51	-18 2.4	2.019	3.020	4.1	22.0	7 20	19 7.94	-16 40.4	1.933	2.934	4.3	21.4
7 30	18 59.42	-18 30.3	2.068	3.027	7.6	22.2	7 30	19 0.19	-17 8.7	1.973	2.934	7.8	21.6
8 9	18 53.00	-18 56.7	2.142	3.034	10.8	22.4	8 9	18 54.08	-17 36.8	2.038	2.934	11.1	21.8
382584	2002 <i>CP</i> ₁₉₄		7 9.8 209°05	1°0/10.1	18		55343	2001 <i>SU</i> ₁₃₅		7 9.8 181°40	5°2/12.2	18	
5 31	19 44.87	-17 46.0	2.182	2.984	14.0	21.9	5 31	19 41.05	-3 28.0	2.892	3.636	12.2	21.1
6 10	19 40.56	-18 1.1	2.087	2.978	11.2	21.7	6 10	19 36.81	-3 6.3	2.799	3.636	10.3	21.0
6 20	19 34.05	-18 23.5	2.013	2.972	7.9	21.4	6 20	19 31.05	-2 55.5	2.728	3.637	8.3	20.9
6 30	19 25.78	-18 51.8	1.965	2.966	4.2	21.2	6 30	19 24.14	-2 56.8	2.681	3.637	6.3	20.7
7 10	19 16.51	-19 23.4	1.943	2.959	1.0	21.0	7 10	19 16.60	-3 10.5	2.660	3.636	5.2	20.7
7 20	19 7.12	-19 55.9	1.950	2.952	4.1	21.2	7 20	19 9.03	-3 35.7	2.667	3.635	5.7	20.7
7 30	18 58.55	-20 27.1	1.984	2.944	7.9	21.4	7 30	19 2.03	-4 11.0	2.702	3.633	7.4	20.8
8 9	18 51.65	-20 55.4	2.044	2.935	11.3	21.6	8 9	18 56.17	-4 53.6	2.762	3.631	9.5	20.9
164534	2006 <i>HJ</i> ₁₁₀		7 9.8 2°62	4°5/ 8.5	18		137148	1999 <i>CA</i> ₁₅₁		7 9.8 66°29	1°1/10.2	18	
5 31	19 43.69	-30 39.5	1.567	2.406	16.8	19.5	5 31	19 42.32	-18 7.8	2.040	2.852	14.5	19.9
6 10	19 40.74	-31 21.0	1.493	2.405	13.5	19.3	6 10	19 38.59	-18 12.7	1.958	2.855	11.5	19.7
6 20	19 34.74	-32 2.5	1.439	2.405	9.7	19.0	6 20	19 32.67	-18 24.3	1.897	2.859	8.1	19.5
6 30	19 26.29	-32 38.1	1.408	2.406	6.1	18.8	6 30	19 25.08	-18 41.4	1.861	2.863	4.3	19.3
7 10	19 16.50	-33 2.2	1.401	2.407	4.5	18.7	7 10	19 16.58	-19 1.8	1.851	2.867	1.1	19.1
7 20	19 6.74	-33 11.4	1.418	2.408	7.1	18.9	7 20	19 8.09	-19 23.6	1.868	2.870	4.2	19.3
7 30	18 58.39	-33 5.0	1.459	2.411	10.9	19.1	7 30	19 0.54	-19 44.8	1.912	2.874	7.9	19.6
8 9	18 52.56	-32 45.4	1.522	2.413	14.5	19.3	8 9	18 54.71	-20 4.2	1.980	2.878	11.3	19.8
139342	2001 <i>KF</i> ₆₀		7 9.8 16°22	1°6/ 9.2	17		355145	2006 <i>UZ</i> ₃₄₃		7 9.8 320°81	0°4/ 9.6	18	
5 31	19 43.51	-22 37.6	1.376	2.220	18.5	19.5	5 31	19 42.02	-22 38.5	1.910	2.735	14.8	21.2
6 10	19 40.79	-23 18.8	1.305	2.222	14.7	19.2	6 10	19 38.71	-22 46.4	1.820	2.726	11.8	21.0
6 20	19 34.90	-24 8.3	1.252	2.224	10.2	19.0	6 20	19 32.97	-22 58.4	1.751	2.718	8.2	20.8
6 30	19 26.42	-25 1.6	1.221	2.226	5.2	18.7	6 30	19 25.32	-23 12.3	1.705	2.710	4.2	20.5
7 10	19 16.51	-25 52.6	1.214	2.229	1.7	18.5	7 10	19 16.58	-23 25.6	1.686	2.702	0.5	20.2
7 20	19 6.55	-26 36.2	1.231	2.233	6.0	18.8	7 20	19 7.75	-23 36.0	1.693	2.695	4.5	20.5
7 30	18 58.04	-27 9.0	1.273	2.237	10.8	19.1	7 30	18 59.91	-23 42.2	1.726	2.688	8.6	20.7
8 9	18 52.15	-27 30.6	1.335	2.241	15.1	19.3	8 9	18 53.96	-23 44.0	1.782	2.681	12.3	20.9
210207	2007 <i>QV</i>		7 9.8 349°50	2°5/10.1	17		85736	1998 <i>SW</i> ₀₆		7 9.8 227°44	5°7/ 7.6	18	
5 31	19 38.20	-19 16.1	0.988	1.860	22.0	19.7	5 31	19 49.20	-37 25.0	2.320	3.121	13.3	19.8
6 10	19 37.54	-18 40.6	0.919	1.851	17.8	19.4	6 10	19 44.34	-38 15.8	2.230	3.113	10.9	19.6
6 20	19 33.17	-18 12.4	0.866	1.843	12.7	19.1	6 20	19 36.87	-39 2.7	2.161	3.103	8.4	19.4
6 30	19 25.72	-17 52.1	0.832	1.837	7.0	18.7	6 30	19 27.31	-39 40.2	2.117	3.093	6.4	19.3
7 10	19 16.52	-17 39.1	0.818	1.833	2.5	18.5	7 10	19 16.54	-40 3.2	2.100	3.083	5.8	19.2
7 20	19 7.26	-17 32.2	0.824	1.830	6.9	18.7	7 20	19 5.66	-40 8.8	2.109	3.073	7.3	19.3
7 30	18 59.75	-17 30.2	0.851	1.828	12.7	19.0	7 30	18 55.85	-39 56.8	2.144	3.062	9.7	19.4
8 9	18 55.37	-17 31.5	0.896	1.828	17.9	19.3	8 9	18 48.07	-39 29.7	2.203	3.051	12.3	19.6
504906	2011 <i>AL</i> ₄₂		7 9.8 142°98	1°4/ 9.3	17		6736	Marchare		7 9.8 158°12	1°2/ 9.4	18	
5 31	19 47.80	-24 23.7	1.904	2.719	15.2	22.0	5 31	19 48.44	-23 45.0	1.949	2.761	15.1	18.8
6 10	19 43.16	-24 48.5	1.826	2.727	12.1	22.2	6 10	19 43.63	-24 11.8	1.869	2.767	11.9	18.6
6 20	19 35.95	-25 16.7	1.770	2.734	8.4	21.8	6 20	19 36.28	-24 42.6	1.810	2.773	8.3	18.4
6 30	19 26.75	-25 44.9	1.738	2.742	4.3	21.6	6 30	19 26.95	-25 14.0	1.775	2.779	4.2	18.1
7 10	19 16.51	-26 9.4	1.733	2.748	1.5	21.4	7 10	19 16.56	-25 42.3	1.768	2.784	1.3	17.9
7 20	19 6.31	-26 27.2	1.755	2.755	4.8	21.6	7 20	19 6.17	-26 4.5	1.788	2.788	4.7	18.2
7 30	18 57.28	-26 37.4	1.804	2.760	8.8	21.9	7 30	18 56.91	-26 19.1	1.836	2.791	8.7	18.4
8 9	18 50.33	-26 40.2	1.877	2.766	12.3	22.1	8 9	18 49.68	-26 26.4	1.907	2.794	12.2	18.7
366350	1999 <i>RH</i> ₁₈₅		7 9.8 320°42	0°9/ 9.5	18		80434	1999 <i>XO</i> ₂₃₄		7 9.8 241°23	1°1/10.1	18	
5 31	19 37.64	-20 52.1	1.163	2.026	20.0	20.0	5 31	19 45.79	-18 1.2	1.805	2.618	16.0	20.6
6 10	19 37.08	-21 22.8	1.068	1.996	16.2	19.6	6 10	19 41.89	-18 10.9	1.708	2.606	12.9	20.4
6 20	19 33.07	-22 6.7	0.990	1.967	11.5	19.3	6 20	19 35.34	-18 29.1	1.632	2.594	9.1	20.1
6 30	19 25.88	-23 1.1	0.932	1.939	5.9	18.9	6 30	19 26.61	-18 54.3	1.579	2.581	4.9	19.9
7 10	19 16.51	-24 0.6	0.896	1.912	1.0	18.4	7 10	19 16.57	-19 23.7	1.553	2.569	1.1	19.6
7 20	19 6.46	-24 58.2	0.881	1.886	6.8	18.7	7 20	19 6.29	-19 54.5	1.553	2.555	4.8	19.8
7 30	18 57.62	-25 48.0	0.888	1.861	12.9	19.0	7 30	18 57.00	-20 24.0	1.579	2.541	9.3	20.0
8 9	18 51.69	-26 26.6	0.913	1.837	18.5	19.2	8 9	18 49.73	-20 50.6	1.629	2.527	13.3	20.2
352417	2007 <i>XA</i> ₅₈		7 9.8 14°03	3°1/ 8.6	18								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
37538	1981 <i>EK</i> ₃		7 9.8 51°09	3°0/10.5	17		6495	1992 <i>UB</i> ₁		7 9.8 354°16	4°5/10.4	18	
5 31	19 44.15	-15 50.9	1.611	2.431	17.3	19.6	5 31	19 41.64	-16 4.9	1.188	2.036	20.6	15.9
6 10	19 40.46	-15 23.3	1.542	2.441	14.0	19.4	6 10	19 39.56	-15 9.6	1.116	2.031	16.8	15.7
6 20	19 34.16	-15 4.1	1.492	2.451	10.0	19.2	6 20	19 34.18	-14 22.3	1.061	2.028	12.3	15.4
6 30	19 25.87	-14 53.5	1.464	2.462	5.8	18.9	6 30	19 26.14	-13 45.1	1.026	2.025	7.5	15.1
7 10	19 16.59	-14 50.7	1.462	2.473	3.0	18.8	7 10	19 16.63	-13 19.3	1.013	2.024	4.5	15.0
7 20	19 7.45	-14 54.4	1.485	2.485	5.4	19.0	7 20	19 7.13	-13 4.9	1.023	2.023	7.2	15.1
7 30	18 59.57	-15 3.2	1.533	2.496	9.4	19.2	7 30	18 59.17	-13 1.3	1.055	2.023	11.9	15.4
8 9	18 53.83	-15 15.3	1.604	2.508	13.1	19.5	8 9	18 53.92	-13 6.3	1.106	2.025	16.5	15.6
160556	1998 <i>RR</i> ₄		7 9.8 283°53	8°0/12.8	18		158341	2001 <i>XT</i> ₂₈		7 9.8 165°66	2°3/10.6	18	
5 31	19 41.05	-0 8.9	2.067	2.819	16.2	20.3	5 31	19 45.49	-14 23.6	2.377	3.163	13.4	21.2
6 10	19 37.78	+0 18.3	1.955	2.793	14.1	20.1	6 10	19 40.70	-14 21.6	2.289	3.169	10.8	21.0
6 20	19 32.33	+0 28.6	1.863	2.767	11.7	19.9	6 20	19 33.95	-14 27.2	2.224	3.174	7.8	20.8
6 30	19 25.05	+0 18.6	1.791	2.740	9.5	19.7	6 30	19 25.70	-14 39.9	2.184	3.179	4.6	20.6
7 10	19 16.61	-0 13.3	1.744	2.714	8.1	19.5	7 10	19 16.65	-14 58.5	2.172	3.183	2.3	20.5
7 20	19 7.83	-1 6.6	1.722	2.687	8.5	19.5	7 20	19 7.60	-15 21.1	2.188	3.186	4.2	20.6
7 30	18 59.69	-2 18.6	1.725	2.659	10.7	19.6	7 30	18 59.36	-15 46.1	2.232	3.188	7.3	20.8
8 9	18 53.07	-3 44.2	1.752	2.632	13.5	19.7	8 9	18 52.64	-16 11.8	2.302	3.190	10.4	21.0
67438	2000 <i>QU</i> ₁₂₃		7 9.8 178°28	12°1/14.3	18		497903	2006 <i>VU</i> ₅		7 9.8 245°84	1°2/ 9.4	17	
5 31	19 41.84	+9 2.0	1.981	2.685	18.2	19.3	5 31	19 46.87	-23 23.4	1.820	2.638	15.7	22.5
6 10	19 38.25	+10 19.5	1.904	2.685	16.5	19.1	6 10	19 42.86	-23 47.6	1.723	2.626	12.5	22.2
6 20	19 32.48	+11 16.5	1.844	2.686	14.7	19.0	6 20	19 36.10	-24 17.2	1.647	2.612	8.8	22.0
6 30	19 25.02	+11 47.4	1.803	2.686	13.1	18.9	6 30	19 27.06	-24 48.7	1.595	2.598	4.5	21.7
7 10	19 16.63	+11 48.9	1.783	2.686	12.2	18.8	7 10	19 16.63	-25 18.2	1.568	2.584	1.2	21.4
7 20	19 8.16	+11 20.5	1.784	2.686	12.3	18.8	7 20	19 5.95	-25 42.3	1.569	2.569	5.1	21.7
7 30	19 0.56	+10 24.5	1.808	2.686	13.3	18.9	7 30	18 56.31	-25 58.8	1.596	2.554	9.5	21.9
8 9	18 54.63	+9 6.6	1.853	2.685	14.9	19.0	8 9	18 48.79	-26 7.6	1.646	2.539	13.5	22.1
59471	1999 <i>HP</i>		7 9.8 17°53	1°0/10.0	17		25644	2000 <i>AP</i> ₇₀		7 9.8 185°11	1°3/10.2	18	
5 31	19 42.00	-19 46.5	1.380	2.222	18.5	19.2	5 31	19 46.62	-17 7.9	1.984	2.787	15.1	18.7
6 10	19 39.38	-19 42.7	1.311	2.226	14.8	19.0	6 10	19 42.14	-17 20.7	1.896	2.787	12.1	18.4
6 20	19 33.77	-19 46.4	1.261	2.231	10.3	18.7	6 20	19 35.26	-17 41.8	1.828	2.787	8.6	18.2
6 30	19 25.81	-19 56.1	1.232	2.236	5.4	18.4	6 30	19 26.49	-18 9.7	1.785	2.786	4.6	18.0
7 10	19 16.61	-20 9.0	1.227	2.243	1.0	18.1	7 10	19 16.65	-18 41.8	1.769	2.784	1.3	17.7
7 20	19 7.50	-20 22.7	1.246	2.250	5.3	18.5	7 20	19 6.72	-19 15.3	1.781	2.782	4.4	18.0
7 30	18 59.82	-20 35.1	1.288	2.258	10.2	18.8	7 30	18 57.76	-19 47.7	1.819	2.779	8.4	18.2
8 9	18 54.59	-20 45.2	1.353	2.266	14.4	19.0	8 9	18 50.66	-20 17.4	1.883	2.776	12.0	18.4
326093	2011 <i>BZ</i> ₈₈		7 9.8 306°01	2°7/10.6	17 R		319156	2005 <i>YK</i> ₆₇		7 9.8 232°76	0°7/ 9.6	18	
5 31	19 40.67	-14 30.6	1.432	2.264	18.5	20.6	5 31	19 43.52	-24 34.5	2.872	3.672	11.0	22.5
6 10	19 38.62	-14 37.1	1.333	2.240	15.2	20.3	6 10	19 38.98	-24 36.0	2.769	3.661	8.7	22.3
6 20	19 33.58	-14 57.9	1.253	2.217	11.1	20.0	6 20	19 32.70	-24 38.7	2.689	3.649	6.1	22.1
6 30	19 25.95	-15 33.1	1.193	2.194	6.4	19.7	6 30	19 25.06	-24 40.6	2.635	3.638	3.1	21.9
7 10	19 16.61	-16 20.4	1.157	2.171	2.8	19.4	7 10	19 16.68	-24 40.4	2.609	3.625	0.7	21.7
7 20	19 6.79	-17 15.9	1.145	2.148	5.9	19.5	7 20	19 8.24	-24 36.9	2.613	3.613	3.4	21.9
7 30	18 57.98	-18 14.9	1.157	2.126	11.0	19.7	7 30	19 0.47	-24 29.6	2.645	3.600	6.4	22.1
8 9	18 51.50	-19 12.9	1.190	2.105	15.9	20.0	8 9	18 54.00	-24 18.8	2.704	3.587	9.2	22.2
393562	2003 <i>HT</i> ₁₇		7 9.8 48°65	6°5/12.2	18		161500	2004 <i>RW</i> ₁₃		7 9.8 163°88	5°3/ 8.2	18	
5 31	19 40.03	-3 45.4	2.207	2.973	14.9	21.0	5 31	19 48.96	-39 25.4	2.597	3.389	12.2	20.4
6 10	19 36.51	-3 5.7	2.126	2.977	12.6	20.9	6 10	19 43.67	-39 53.8	2.516	3.392	10.1	20.2
6 20	19 31.11	-2 39.1	2.064	2.980	10.2	20.7	6 20	19 36.10	-40 16.0	2.457	3.394	7.8	20.1
6 30	19 24.27	-2 27.9	2.024	2.983	7.9	20.6	6 30	19 26.80	-40 27.4	2.424	3.396	6.0	19.9
7 10	19 16.66	-2 32.8	2.010	2.987	6.6	20.5	7 10	19 16.65	-40 24.7	2.417	3.397	5.4	19.9
7 20	19 9.04	-2 53.3	2.022	2.991	7.1	20.5	7 20	19 6.61	-40 6.6	2.437	3.399	6.5	20.0
7 30	19 2.21	-3 27.2	2.059	2.994	9.1	20.7	7 30	18 57.66	-39 33.8	2.484	3.400	8.6	20.1
8 9	18 56.84	-4 11.2	2.119	2.998	11.5	20.8	8 9	18 50.58	-38 49.1	2.555	3.401	10.9	20.3
434660	2005 <i>YU</i> ₁₁₅		7 9.8 193°08	1°3/ 9.3	18		127931	2003 <i>GA</i> ₅₅		7 9.8 336°72	3°3/ 8.8	17	
5 31	19 46.48	-24 3.3	2.196	3.005	13.7	22.4	5 31	19 45.36	-27 49.6	1.632	2.465	16.6	20.0
6 10	19 41.89	-24 30.2	2.106	3.003	10.9	22.2	6 10	19 41.95	-28 30.4	1.553	2.463	13.2	19.8
6 20	19 35.01	-25 0.7	2.038	3.001	7.5	22.0	6 20	19 35.57	-29 13.8	1.494	2.461	9.4	19.5
6 30	19 26.32	-25 31.7	1.995	2.998	3.9	21.7	6 30	19 26.79	-29 54.7	1.458	2.459	5.4	19.3
7 10	19 16.62	-25 59.9	1.980	2.995	1.3	21.5	7 10	19 16.65	-30 27.6	1.447	2.457	3.4	19.2
7 20	19 6.83	-26 22.6	1.993	2.991	4.4	21.8	7 20	19 6.45	-30 48.6	1.462	2.456	6.3	19.4
7 30	18 57.97	-26 38.3	2.033	2.987	8.1	22.0	7 30	18 57.56	-30 56.2	1.501	2.455	10.4	19.6
8 9	18 50.87	-26 47.0	2.097	2.982	11.4	22.2	8 9	18 51.08	-30 51.8	1.562	2.454	14.2	19.8
399284	2014 <i>HD</i> ₁₂₅		7 9.8 107°59	3°2/ 8.7	16		119529	2001 <i>UY</i> ₁₈₇		7 9.8 136°27	3°9/11.1	18	
5 31	19 45.76	-30 25.7	2.286	3.097	13.1	21.5	5 31	19 43.65	-11 46.1	1.786	2.589	16.6	20.0
6 10	19 41.21	-30 59.5	2.212	3.108	10.4	21.4	6 10	19 39.93	-11 35.2	1.705	2.592	13.5	19.8
6 20	19 34.43	-31 32.5	2.159	3.118	7.4	21.2	6 20	19 33.79	-11 36.2	1.644	2.595	10.0	19.6
6 30	19 25.96	-32 0.6	2.132	3.128	4.5	21.0	6 30	19 25.76	-11 49.5	1.606	2.597	6.3	19.4
7 10	19 16.63	-32 20.4	2.132	3.138	3.3	20.9	7 10	19 16.68	-12 13.8	1.593	2.600	3.9	19.2
7 20	19 7.38	-32 29.8	2.160	3.148	5.2	21.1	7 20	19 7.58	-12 46.9	1.606	2.602	5.6	19.4
7 30	18 59.15	-32 28.2	2.215	3.158	8.1	21.3	7 30	18 59.51	-13 26.0	1.645	2.605	9.2	19.6
8 9	18 52.73	-32 17.1	2.293	3.167	10.9	21.5	8 9	18 53.36	-14 7.9	1.707	2.607	12.7	19.8
305475	2008 <i>DT</i> ₅₄		7 9.8 187°65	1°8/ 8.9	18		88102	2000 <i>WA</i> ₇₉		7 9.8 63°71			

EPHEMERIDES

7 9.8

7 9.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
217380	2004 VE		7 9.8 329°92	5°6/12.1	18		204027	2003 UJ ₈₈		7 9.8 310°36	1°9/10.5	18	
5 31	19 37.34	- 6 26.9	1.889	2.683	16.1	19.5	5 31	19 40.28	-15 2.4	1.665	2.488	16.7	19.9
6 10	19 34.98	- 6 18.6	1.793	2.668	13.5	19.3	6 10	19 37.84	-15 22.9	1.565	2.467	13.6	19.6
6 20	19 30.43	- 6 25.9	1.715	2.652	10.6	19.1	6 20	19 32.77	-15 56.6	1.484	2.447	9.8	19.3
6 30	19 24.11	- 6 50.5	1.659	2.638	7.6	18.8	6 30	19 25.46	-16 42.8	1.427	2.428	5.5	19.0
7 10	19 16.72	- 7 32.1	1.628	2.624	5.6	18.7	7 10	19 16.74	-17 38.4	1.393	2.408	1.9	18.8
7 20	19 9.13	- 8 28.6	1.621	2.610	6.5	18.7	7 20	19 7.67	-18 39.5	1.386	2.389	5.1	18.9
7 30	19 2.33	- 9 36.4	1.641	2.598	9.4	18.9	7 30	18 59.49	-19 41.4	1.403	2.371	9.7	19.1
8 9	18 57.16	-10 50.5	1.683	2.586	12.7	19.0	8 9	18 53.32	-20 40.2	1.444	2.352	14.0	19.4
65919	1998 FH ₃₉		7 9.8 237°37	2°1/10.4	18		155559	1999 VB ₁₄₇		7 9.8 199°98	0°5/ 9.6	18	
5 31	19 46.98	-16 4.5	1.868	2.672	15.9	20.4	5 31	19 42.27	-22 58.6	2.785	3.587	11.3	21.7
6 10	19 42.76	-16 3.9	1.767	2.658	12.9	20.1	6 10	19 38.04	-23 12.9	2.691	3.584	8.9	21.5
6 20	19 35.94	-16 12.1	1.686	2.643	9.3	19.9	6 20	19 32.08	-23 29.8	2.620	3.581	6.2	21.3
6 30	19 26.96	-16 28.6	1.628	2.627	5.2	19.6	6 30	19 24.79	-23 47.5	2.575	3.578	3.1	21.1
7 10	19 16.66	-16 51.3	1.597	2.611	2.1	19.3	7 10	19 16.77	-24 4.2	2.558	3.574	0.5	20.9
7 20	19 6.08	-17 18.0	1.593	2.593	5.0	19.5	7 20	19 8.71	-24 18.1	2.570	3.571	3.4	21.1
7 30	18 56.42	-17 46.3	1.615	2.576	9.2	19.7	7 30	19 1.33	-24 28.3	2.611	3.567	6.4	21.3
8 9	18 48.70	-18 14.2	1.661	2.557	13.2	19.9	8 9	18 55.25	-24 34.4	2.677	3.562	9.2	21.5
116122	2003 WD ₁₃₉		7 9.8 180°89	1°0/10.1	18		383534	2007 DG ₅₄		7 9.8 233°15	1°5/ 9.3	18	
5 31	19 47.63	-18 39.2	1.963	2.768	15.2	20.7	5 31	19 47.15	-24 24.1	1.982	2.796	14.8	22.1
6 10	19 42.94	-18 43.2	1.877	2.769	12.2	20.5	6 10	19 42.86	-24 51.6	1.886	2.785	11.8	21.9
6 20	19 35.82	-18 53.8	1.810	2.770	8.5	20.3	6 20	19 35.98	-25 23.3	1.810	2.774	8.2	21.7
6 30	19 26.78	-19 9.4	1.769	2.770	4.5	20.0	6 30	19 26.98	-25 55.8	1.759	2.762	4.3	21.4
7 10	19 16.67	-19 27.7	1.754	2.770	1.0	19.8	7 10	19 16.73	-26 25.2	1.734	2.749	1.5	21.2
7 20	19 6.52	-19 46.4	1.767	2.769	4.4	20.0	7 20	19 6.27	-26 48.3	1.737	2.736	4.9	21.4
7 30	18 57.40	-20 3.9	1.807	2.767	8.5	20.3	7 30	18 56.78	-27 3.2	1.767	2.722	9.0	21.6
8 9	18 50.20	-20 19.3	1.871	2.764	12.1	20.5	8 9	18 49.25	-27 10.1	1.820	2.708	12.7	21.8
434746	2006 GN ₅₄		7 9.8 142°45	5°4/11.7	17		62343	2000 SQ ₁₃₂		7 9.8 112°98	10°7/12.0	18	
5 31	19 43.54	- 6 48.0	2.215	2.985	14.7	21.8	5 31	19 44.97	+ 2 9.7	1.905	2.644	17.8	18.8
6 10	19 39.24	- 6 15.4	2.134	2.993	12.3	21.7	6 10	19 40.70	+ 3 50.5	1.833	2.651	15.7	18.7
6 20	19 32.98	- 5 54.3	2.073	3.000	9.6	21.5	6 20	19 34.18	+ 5 15.6	1.778	2.658	13.5	18.6
6 30	19 25.23	- 5 46.3	2.036	3.008	7.0	21.4	6 30	19 25.92	+ 6 19.3	1.746	2.664	11.6	18.4
7 10	19 16.71	- 5 51.7	2.025	3.015	5.5	21.3	7 10	19 16.75	+ 6 57.8	1.736	2.670	10.7	18.4
7 20	19 8.21	- 6 9.7	2.042	3.021	6.3	21.3	7 20	19 7.59	+ 7 9.8	1.750	2.676	11.1	18.4
7 30	19 0.55	- 6 38.2	2.084	3.027	8.6	21.5	7 30	18 59.41	+ 6 56.6	1.788	2.682	12.6	18.6
8 9	18 54.43	- 7 14.3	2.151	3.033	11.3	21.7	8 9	18 53.01	+ 6 22.6	1.846	2.688	14.6	18.7
383895	2008 SG ₃₆		7 9.8 248°19	1°8/ 9.2	17		208539	2002 AM ₁₃		7 9.8 291°95	2°3/ 9.4	18	
5 31	19 45.24	-25 18.4	1.910	2.731	15.0	21.1	5 31	19 46.47	-26 16.0	1.358	2.201	18.8	20.0
6 10	19 41.37	-25 45.4	1.821	2.725	11.9	20.9	6 10	19 43.72	-26 28.8	1.264	2.180	15.2	19.7
6 20	19 34.92	-26 15.8	1.753	2.719	8.3	20.7	6 20	19 37.44	-26 44.7	1.187	2.158	10.8	19.4
6 30	19 26.39	-26 46.0	1.709	2.712	4.4	20.4	6 30	19 28.06	-26 59.3	1.131	2.136	5.8	19.1
7 10	19 16.68	-27 12.1	1.691	2.706	1.9	20.2	7 10	19 16.70	-27 7.6	1.099	2.114	2.4	18.8
7 20	19 6.86	-27 31.2	1.700	2.699	5.1	20.4	7 20	19 4.91	-27 5.9	1.091	2.092	6.6	19.0
7 30	18 58.09	-27 41.6	1.736	2.692	9.0	20.7	7 30	18 54.50	-26 52.9	1.106	2.071	12.0	19.2
8 9	18 51.33	-27 43.7	1.794	2.685	12.7	20.9	8 9	18 46.95	-26 30.6	1.142	2.049	17.0	19.4
292396	2006 SW ₂₇₄		7 9.8 268°38	3°8/10.6	18		478669	2012 TV ₂₇₆		7 9.8 328°07	2°3/ 9.2	16	
5 31	19 44.54	-14 3.8	1.664	2.476	17.2	21.1	5 31	19 45.45	-27 19.2	1.812	2.637	15.5	21.4
6 10	19 41.04	-13 34.7	1.570	2.464	14.1	20.8	6 10	19 41.63	-27 37.3	1.729	2.635	12.3	21.2
6 20	19 34.84	-13 14.6	1.495	2.451	10.4	20.6	6 20	19 35.13	-27 56.6	1.668	2.633	8.7	21.0
6 30	19 26.43	-13 4.3	1.443	2.438	6.4	20.3	6 30	19 26.51	-28 13.2	1.629	2.631	4.7	20.8
7 10	19 16.69	-13 3.9	1.416	2.425	3.8	20.1	7 10	19 16.74	-28 23.6	1.617	2.630	2.4	20.6
7 20	19 6.75	-13 12.2	1.414	2.412	6.0	20.2	7 20	19 6.96	-28 25.2	1.630	2.628	5.4	20.8
7 30	18 57.85	-13 27.8	1.438	2.399	10.1	20.4	7 30	18 58.37	-28 17.7	1.670	2.627	9.3	21.0
8 9	18 51.04	-13 48.3	1.484	2.385	14.1	20.6	8 9	18 51.94	-28 2.2	1.732	2.625	12.9	21.2
62521	2000 SW ₂₄₇		7 9.8 162°50	3°6/10.9	18		424008	2006 WF ₈₃		7 9.8 192°39	1°6/10.3	17	
5 31	19 46.11	-12 36.2	1.631	2.438	17.7	20.0	5 31	19 47.29	-17 36.0	2.079	2.878	14.7	22.3
6 10	19 42.16	-12 29.7	1.552	2.442	14.4	19.8	6 10	19 42.54	-17 28.0	1.987	2.876	11.8	22.1
6 20	19 35.50	-12 35.9	1.491	2.445	10.6	19.6	6 20	19 35.49	-17 26.2	1.917	2.874	8.4	21.9
6 30	19 26.70	-12 54.6	1.453	2.447	6.5	19.3	6 30	19 26.62	-17 29.5	1.872	2.871	4.6	21.6
7 10	19 16.70	-13 24.3	1.440	2.449	3.7	19.2	7 10	19 16.74	-17 36.7	1.853	2.868	1.6	21.4
7 20	19 6.66	-14 2.1	1.453	2.451	5.7	19.3	7 20	19 6.81	-17 46.0	1.863	2.864	4.4	21.6
7 30	18 57.78	-14 44.7	1.491	2.453	9.8	19.6	7 30	18 57.82	-17 56.4	1.900	2.859	8.2	21.8
8 9	18 51.07	-15 28.8	1.552	2.454	13.7	19.8	8 9	18 50.63	-18 6.7	1.962	2.854	11.7	22.1
86099	1999 RO ₁₀₆		7 9.8 351°75	0°9/ 9.6	18		351908	2006 SA ₃₃₂		7 9.8 342°37	1°3/ 9.5	18	
5 31	19 43.46	-25 12.1	1.978	2.800	14.5	18.8	5 31	19 41.45	-24 46.3	1.678	2.514	16.1	20.4
6 10	19 39.71	-25 4.7	1.893	2.797	11.5	18.6	6 10	19 38.69	-24 56.8	1.593	2.506	12.8	20.2
6 20	19 33.59	-24 58.1	1.829	2.795	8.0	18.4	6 20	19 33.22	-25 10.4	1.529	2.498	8.9	19.9
6 30	19 25.64	-24 50.3	1.789	2.793	4.1	18.2	6 30	19 25.60	-25 24.1	1.487	2.492	4.6	19.6
7 10	19 16.74	-24 39.3	1.776	2.792	0.9	17.9	7 10	19 16.76	-25 34.7	1.470	2.485	1.4	19.4
7 20	19 7.87	-24 24.2	1.789	2.791	4.4	18.2	7 20	19 7.85	-25 39.8	1.478	2.480	5.1	19.6
7 30	19 0.06	-24 5.0	1.829	2.790	8.3	18.4	7 30	19 0.11	-25 38.2	1.512	2.475	9.5	19.9
8 9	18 54.14	-23 42.6	1.892	2.789	11.8	18.6	8 9	18 54.51	-25 30.6	1.567	2.471	13.4	20.1
428082	2006 KN ₁₂		7 9.8 24°93	4°8/11.8	17		438334	2006 KD ₁₃₉		7 9.8 301°68	5°4/10.5	18	
5 31	19 39.89	- 8 55.											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
59544	1999 <i>JH</i> ₃₂		7 9.8 29°19	6°4/11.6	18		469916	2005 <i>YL</i> ₉₁		7 9.8 218°52	0°8/10.0	18	
5 31	19 41.55	- 8 40.2	1.478	2.290	19.0	18.5	5 31	19 45.72	-19 43.7	2.036	2.845	14.6	21.6
6 10	19 38.67	- 7 57.1	1.409	2.296	15.8	18.3	6 10	19 41.44	-19 41.4	1.943	2.839	11.7	21.4
6 20	19 33.11	- 7 28.9	1.358	2.303	12.1	18.1	6 20	19 34.81	-19 44.2	1.872	2.833	8.2	21.2
6 30	19 25.48	- 7 17.9	1.328	2.311	8.5	17.9	6 30	19 26.32	-19 50.9	1.824	2.826	4.3	20.9
7 10	19 16.77	- 7 24.7	1.322	2.319	6.4	17.8	7 10	19 16.78	-19 59.4	1.803	2.819	0.8	20.7
7 20	19 8.11	- 7 48.1	1.339	2.328	7.6	17.9	7 20	19 7.15	-20 8.1	1.810	2.812	4.3	20.9
7 30	19 0.70	- 8 24.7	1.380	2.337	10.8	18.1	7 30	18 58.46	-20 15.7	1.844	2.805	8.3	21.1
8 9	18 55.45	- 9 10.0	1.442	2.346	14.3	18.4	8 9	18 51.59	-20 21.7	1.902	2.797	11.9	21.3
19950	1981 <i>EP</i> ₄₇		7 9.8 280°28	5°6/11.8	18		357541	2004 <i>RO</i> ₂₇₈		7 9.8 356°42	5°6/11.9	18	
5 31	19 39.84	- 5 45.1	2.309	3.080	14.2	19.3	5 31	19 39.35	- 6 11.4	2.164	2.943	14.8	20.4
6 10	19 36.46	- 5 18.4	2.209	3.068	12.0	19.1	6 10	19 36.11	- 5 43.5	2.078	2.942	12.4	20.3
6 20	19 31.19	- 5 3.6	2.130	3.055	9.4	18.9	6 20	19 30.94	- 5 28.1	2.012	2.941	9.7	20.1
6 30	19 24.42	- 5 2.4	2.073	3.042	7.0	18.7	6 30	19 24.29	- 5 26.8	1.969	2.941	7.2	19.9
7 10	19 16.79	- 5 15.3	2.043	3.030	5.6	18.6	7 10	19 16.82	- 5 39.9	1.952	2.940	5.7	19.8
7 20	19 9.02	- 5 41.6	2.038	3.017	6.3	18.6	7 20	19 9.31	- 6 6.4	1.960	2.940	6.4	19.9
7 30	19 1.91	- 6 19.3	2.060	3.004	8.6	18.7	7 30	19 2.57	- 6 44.1	1.994	2.940	8.7	20.0
8 9	18 56.19	- 7 5.4	2.106	2.991	11.3	18.9	8 9	18 57.31	- 7 29.5	2.052	2.941	11.4	20.2
181077	2005 <i>QB</i> ₂₆		7 9.8 151°41	4°3/ 8.1	18		299865	2006 <i>SX</i> ₂₇₃		7 9.8 163°28	2°2/ 8.8	18	
5 31	19 46.52	-35 7.8	2.630	3.431	11.9	21.1	5 31	19 44.57	-28 34.7	2.929	3.729	10.8	22.4
6 10	19 41.68	-35 47.8	2.551	3.437	9.6	20.9	6 10	19 39.80	-29 6.9	2.844	3.734	8.6	22.2
6 20	19 34.73	-36 24.7	2.494	3.442	7.2	20.8	6 20	19 33.27	-29 39.3	2.782	3.739	6.0	22.1
6 30	19 26.17	-36 54.1	2.463	3.447	5.1	20.7	6 30	19 25.39	-30 9.0	2.746	3.744	3.5	21.9
7 10	19 16.76	-37 12.6	2.459	3.451	4.4	20.6	7 10	19 16.81	-30 33.3	2.739	3.748	2.2	21.8
7 20	19 7.38	-37 18.3	2.483	3.456	5.8	20.7	7 20	19 8.21	-30 50.4	2.761	3.752	4.1	21.9
7 30	18 58.93	-37 11.0	2.534	3.460	8.1	20.9	7 30	19 0.33	-30 59.3	2.812	3.755	6.6	22.1
8 9	18 52.16	-36 52.4	2.609	3.464	10.4	21.0	8 9	18 53.81	-31 0.7	2.888	3.758	9.1	22.3
396841	2004 <i>RV</i> ₁₉₈		7 9.8 318°63	9°3/13.6	18		382412	1997 <i>SZ</i> ₃		7 9.8 283°19	2°9/10.4	18	
5 31	19 38.06	+ 3 36.5	2.135	2.872	16.2	20.5	5 31	19 45.13	-15 39.3	1.804	2.613	16.2	21.0
6 10	19 35.21	+ 4 21.1	2.043	2.861	14.3	20.3	6 10	19 41.58	-15 19.5	1.690	2.583	13.3	20.8
6 20	19 30.41	+ 4 48.1	1.968	2.849	12.3	20.2	6 20	19 35.35	-15 7.2	1.596	2.553	9.7	20.5
6 30	19 24.06	+ 4 53.9	1.914	2.838	10.4	20.0	6 30	19 26.82	-15 2.8	1.525	2.522	5.7	20.2
7 10	19 16.80	+ 4 36.3	1.883	2.828	9.3	20.0	7 10	19 16.78	-15 5.7	1.479	2.491	2.9	19.9
7 20	19 9.41	+ 3 55.6	1.876	2.817	9.5	19.9	7 20	19 6.28	-15 14.7	1.459	2.459	5.5	20.0
7 30	19 2.72	+ 2 54.3	1.893	2.807	11.0	20.0	7 30	18 56.58	-15 28.4	1.466	2.427	9.9	20.2
8 9	18 57.49	+ 1 37.1	1.932	2.798	13.0	20.1	8 9	18 48.81	-15 45.2	1.495	2.394	14.2	20.4
512918	2016 <i>XA</i> ₆		7 9.8 256°36	1°4/10.2	18		308500	2005 <i>TT</i> ₁₄₃		7 9.8 288°51	3°6/ 8.4	18	
5 31	19 42.69	-18 48.1	2.388	3.191	12.9	21.1	5 31	19 43.98	-30 34.0	2.250	3.066	13.2	20.7
6 10	19 38.61	-18 30.5	2.294	3.186	10.3	20.9	6 10	19 40.07	-31 19.5	2.165	3.064	10.5	20.5
6 20	19 32.60	-18 16.8	2.222	3.180	7.3	20.7	6 20	19 33.86	-32 5.1	2.103	3.062	7.6	20.3
6 30	19 25.09	-18 6.6	2.174	3.175	4.0	20.5	6 30	19 25.83	-32 46.6	2.065	3.060	4.8	20.1
7 10	19 16.79	-17 58.9	2.154	3.169	1.4	20.3	7 10	19 16.80	-33 19.7	2.054	3.058	3.7	20.0
7 20	19 8.44	-17 53.1	2.162	3.163	3.8	20.4	7 20	19 7.70	-33 41.5	2.070	3.056	5.6	20.2
7 30	19 0.89	-17 48.7	2.198	3.158	7.2	20.6	7 30	18 59.54	-33 50.8	2.113	3.054	8.6	20.3
8 9	18 54.81	-17 45.1	2.259	3.152	10.3	20.8	8 9	18 53.16	-33 48.7	2.180	3.053	11.5	20.5
511325	2014 <i>DU</i> ₁₃₃		7 9.8 160°11	2°8/10.8	17		229852	2009 <i>SH</i> ₂₇₅		7 9.8 246°49	0°1/ 9.8	18	
5 31	19 41.98	-13 24.9	2.086	2.886	14.6	21.7	5 31	19 46.14	-20 57.7	1.957	2.770	15.0	22.0
6 10	19 38.31	-13 21.8	2.000	2.887	11.8	21.5	6 10	19 42.07	-21 13.1	1.857	2.755	12.0	21.8
6 20	19 32.52	-13 28.1	1.935	2.887	8.6	21.3	6 20	19 35.46	-21 34.6	1.777	2.740	8.4	21.5
6 30	19 25.10	-13 43.7	1.893	2.888	5.2	21.1	6 30	19 26.76	-22 0.0	1.721	2.724	4.3	21.2
7 10	19 16.78	-14 7.2	1.878	2.888	2.8	21.0	7 10	19 16.79	-22 26.1	1.692	2.708	0.1	20.8
7 20	19 8.42	-14 36.7	1.890	2.889	4.6	21.1	7 20	19 6.57	-22 50.2	1.690	2.692	4.6	21.2
7 30	19 0.93	-15 9.9	1.929	2.889	8.0	21.3	7 30	18 57.27	-23 10.2	1.715	2.675	8.8	21.4
8 9	18 55.05	-15 44.4	1.992	2.890	11.3	21.5	8 9	18 49.86	-23 25.3	1.764	2.657	12.7	21.6
24103	Dethury		7 9.8 320°43	9°0/13.2	18		475873	2007 <i>CJ</i> ₃₄		7 9.8 286°76	2°3/ 9.2	18	
5 31	19 37.99	- 0 58.6	1.573	2.359	19.2	17.8	5 31	19 44.58	-28 53.8	2.279	3.093	13.1	21.0
6 10	19 36.01	- 0 29.5	1.479	2.340	16.6	17.6	6 10	19 40.39	-29 3.3	2.188	3.086	10.4	20.8
6 20	19 31.48	- 0 21.5	1.402	2.322	13.7	17.4	6 20	19 33.99	-29 11.9	2.118	3.080	7.4	20.6
6 30	19 24.80	- 0 39.0	1.344	2.304	10.9	17.1	6 30	19 25.87	-29 16.7	2.073	3.073	4.1	20.4
7 10	19 16.79	- 1 24.0	1.308	2.287	9.1	17.0	7 10	19 16.82	-29 15.1	2.056	3.067	2.3	20.3
7 20	19 8.47	- 2 35.2	1.296	2.271	9.5	17.0	7 20	19 7.75	-29 5.7	2.065	3.061	4.7	20.4
7 30	19 1.03	- 4 7.7	1.306	2.255	12.1	17.1	7 30	18 59.62	-28 48.3	2.102	3.054	8.0	20.6
8 9	18 55.56	- 5 53.9	1.339	2.240	15.4	17.2	8 9	18 53.23	-28 24.3	2.163	3.048	11.1	20.8
158829	2003 <i>YB</i> ₁₁₈		7 9.8 222°04	1°9/10.9	18		187016	2004 <i>UT</i> ₂		7 9.8 321°36	5°1/12.1	18	
5 31	19 52.18	- 7 6.9	1.207	2.012	22.8	19.4	5 31	19 38.88	- 6 10.2	2.202	2.980	14.6	19.6
6 10	19 48.56	- 9 0.3	1.118	2.007	18.8	19.1	6 10	19 35.79	- 6 2.4	2.109	2.973	12.2	19.4
6 20	19 41.12	-11 33.2	1.046	2.001	13.7	18.8	6 20	19 30.77	- 6 8.2	2.035	2.966	9.5	19.2
6 30	19 30.15	-14 43.1	0.996	1.995	7.7	18.4	6 30	19 24.24	- 6 28.7	1.985	2.960	6.8	19.1
7 10	19 16.69	-18 18.1	0.973	1.988	2.0	18.1	7 10	19 16.85	- 7 3.5	1.960	2.953	5.2	18.9
7 20	19 2.40	-21 59.3	0.978	1.981	6.6	18.3	7 20	19 9.35	- 7 50.9	1.962	2.947	5.9	19.0
7 30	18 49.33	-25 27.1	1.010	1.974	13.0	18.7	7 30	19 2.57	- 8 47.8	1.990	2.941	8.4	19.1
8 9	18 39.32	-28 28.3	1.066	1.965	18.6	19.0	8 9	18 57.22	- 9 50.4	2.043	2.936	11.2	19.3
68385	2001 <i>QM</i> ₂₄		7 9.8 298°21	1°0/10.1	18		309148	2006 <i>YY</i> ₁₆		7 9.8 129°53			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
288777	2004 <i>RM</i> ₁₀₀		7 9.8 295°58	8:2/12.9 18			476033	2007 <i>RQ</i> ₂₅₂		7 9.8 320°74	5°0/ 9.0 18		
5 31	19 39.00	+ 1 30.4	2.301	3.041	15.1	20.8	5 31	19 44.59	-32 48.1	1.464	2.306	17.7	20.3
6 10	19 35.91	+ 2 8.9	2.193	3.018	13.2	20.6	6 10	19 42.32	-33 2.0	1.358	2.271	14.5	20.0
6 20	19 30.91	+ 2 32.1	2.104	2.995	11.2	20.4	6 20	19 36.56	-33 12.4	1.271	2.236	10.8	19.6
6 30	19 24.36	+ 2 36.8	2.037	2.971	9.3	20.2	6 30	19 27.71	-33 13.4	1.204	2.202	6.9	19.3
7 10	19 16.86	+ 2 21.1	1.993	2.948	8.2	20.1	7 10	19 16.84	-32 59.1	1.161	2.168	5.0	19.1
7 20	19 9.12	+ 1 45.0	1.975	2.925	8.6	20.1	7 20	19 5.47	-32 25.9	1.141	2.135	7.8	19.2
7 30	19 1.98	+ 0 50.3	1.981	2.902	10.2	20.2	7 30	18 55.40	-31 34.1	1.145	2.103	12.4	19.3
8 9	18 56.17	- 0 18.8	2.010	2.879	12.5	20.3	8 9	18 48.16	-30 28.1	1.169	2.072	17.0	19.5
468155	2014 <i>WY</i> ₈₇		7 9.8 69°96	1°1/10.1 17			272297	2005 <i>SN</i> ₂₄		7 9.8 338°59	0°2/ 9.7 18		
5 31	19 46.98	-18 10.6	1.386	2.216	19.1	21.1	5 31	19 36.76	-20 18.8	2.170	2.994	13.3	19.3
6 10	19 43.17	-18 23.3	1.327	2.234	15.2	20.9	6 10	19 34.41	-20 48.8	2.069	2.975	10.6	19.1
6 20	19 36.31	-18 46.1	1.286	2.252	10.6	20.7	6 20	19 30.01	-21 25.9	1.989	2.956	7.4	18.9
6 30	19 27.13	-19 16.4	1.267	2.271	5.5	20.4	6 30	19 23.96	-22 8.1	1.934	2.938	3.8	18.6
7 10	19 16.81	-19 50.3	1.273	2.289	1.1	20.2	7 10	19 16.91	-22 52.4	1.905	2.921	0.2	18.3
7 20	19 6.71	-20 24.0	1.304	2.307	5.3	20.5	7 20	19 9.67	-23 35.7	1.902	2.905	4.0	18.6
7 30	18 58.17	-20 54.6	1.359	2.326	10.0	20.8	7 30	19 3.14	-24 15.3	1.926	2.890	7.8	18.8
8 9	18 52.18	-21 20.6	1.437	2.344	14.2	21.1	8 9	18 58.12	-24 49.4	1.975	2.875	11.2	19.0
20574	Ochinero		7 9.8 191°90	4°2/10.9 18			370431	2002 <i>VZ</i> ₁₈		7 9.8 258°81	3°5/ 8.6 18		
5 31	19 45.66	-12 8.0	1.694	2.498	17.3	19.1	5 31	19 48.48	-28 29.4	1.869	2.687	15.4	21.5
6 10	19 41.74	-11 44.9	1.611	2.497	14.2	18.9	6 10	19 44.39	-29 14.0	1.767	2.667	12.4	21.2
6 20	19 35.21	-11 33.1	1.546	2.496	10.5	18.7	6 20	19 37.40	-30 1.8	1.685	2.647	8.9	20.9
6 30	19 26.60	-11 33.3	1.504	2.495	6.7	18.5	6 30	19 27.92	-30 47.7	1.627	2.626	5.3	20.7
7 10	19 16.82	-11 45.1	1.487	2.494	4.3	18.3	7 10	19 16.85	-31 26.0	1.596	2.604	3.6	20.5
7 20	19 6.97	-12 6.8	1.496	2.492	6.0	18.4	7 20	19 5.40	-31 52.2	1.591	2.582	6.3	20.7
7 30	18 58.22	-12 35.9	1.530	2.489	9.8	18.6	7 30	18 54.95	-32 4.2	1.612	2.559	10.3	20.8
8 9	18 51.54	-13 9.6	1.588	2.487	13.5	18.9	8 9	18 46.71	-32 2.9	1.656	2.536	14.1	21.0
266249	2006 <i>YM</i> ₁		7 9.8 262°41	0°1/ 9.9 18			158425	2002 <i>BA</i>		7 9.8 52°52	2°4/ 9.2 18		
5 31	19 46.33	-21 5.1	1.799	2.617	15.9	21.7	5 31	19 45.77	-26 1.1	1.575	2.408	17.0	19.8
6 10	19 42.51	-21 12.2	1.697	2.599	12.8	21.5	6 10	19 42.14	-26 31.1	1.510	2.420	13.5	19.6
6 20	19 35.95	-21 25.2	1.616	2.580	9.0	21.2	6 20	19 35.59	-27 4.0	1.464	2.432	9.4	19.4
6 30	19 27.09	-21 41.9	1.557	2.561	4.6	20.9	6 30	19 26.80	-27 35.4	1.441	2.444	5.0	19.2
7 10	19 16.82	-21 59.6	1.525	2.542	0.1	20.5	7 10	19 16.87	-28 0.6	1.443	2.456	2.4	19.0
7 20	19 6.26	-22 15.4	1.519	2.522	4.9	20.8	7 20	19 7.08	-28 16.5	1.471	2.469	5.7	19.3
7 30	18 56.66	-22 27.7	1.540	2.502	9.5	21.1	7 30	18 58.72	-28 22.0	1.523	2.482	9.8	19.5
8 9	18 49.14	-22 35.7	1.583	2.481	13.6	21.3	8 9	18 52.76	-28 18.3	1.598	2.495	13.6	19.8
498434	2008 <i>AQ</i> ₉₁		7 9.8 88°60	5°1/12.7 17			169910	2002 <i>RP</i> ₂₄₇		7 9.8 354°62	3°2/ 8.9 16		
5 31	19 48.78	- 2 17.4	1.185	1.982	23.6	20.7	5 31	19 44.43	-28 52.6	1.691	2.524	16.1	20.3
6 10	19 45.39	- 3 41.4	1.111	1.989	19.8	20.4	6 10	19 41.11	-29 18.9	1.612	2.522	12.9	20.1
6 20	19 38.48	- 5 43.6	1.053	1.996	15.0	20.1	6 20	19 34.95	-29 45.6	1.554	2.520	9.1	19.9
6 30	19 28.56	- 8 23.3	1.015	2.003	9.7	19.9	6 30	19 26.53	-30 8.4	1.518	2.519	5.3	19.6
7 10	19 16.81	-11 32.1	1.002	2.010	5.4	19.7	7 10	19 16.88	-30 22.7	1.507	2.518	3.3	19.5
7 20	19 4.78	-14 54.6	1.015	2.016	7.0	19.8	7 20	19 7.23	-30 25.8	1.522	2.517	6.0	19.7
7 30	18 54.23	-18 13.5	1.055	2.023	12.0	20.1	7 30	18 58.86	-30 17.3	1.562	2.517	9.9	19.9
8 9	18 46.60	-21 15.1	1.119	2.030	17.0	20.4	8 9	18 52.80	-29 58.7	1.624	2.518	13.6	20.1
149062	2002 <i>CK</i> ₅₉		7 9.8 58°94	0°6/10.0 18			449518	2014 <i>HB</i> ₅		7 9.8 164°30	10°6/ 4.5 18		
5 31	19 42.16	-19 27.3	2.132	2.944	13.9	20.3	5 31	19 56.84	-34 31.2	1.295	2.126	20.2	20.7
6 10	19 38.36	-19 34.9	2.058	2.956	11.0	20.1	6 10	19 53.07	-37 29.0	1.230	2.130	16.7	20.5
6 20	19 32.49	-19 48.0	2.005	2.968	7.7	19.9	6 20	19 44.77	-40 33.3	1.185	2.133	13.2	20.3
6 30	19 25.07	-20 5.1	1.977	2.980	4.0	19.7	6 30	19 32.23	-43 27.1	1.164	2.136	10.9	20.2
7 10	19 16.88	-20 24.1	1.976	2.993	0.6	19.5	7 10	19 16.78	-45 52.4	1.168	2.138	11.0	20.2
7 20	19 8.75	-20 42.9	2.003	3.005	3.9	19.8	7 20	19 0.57	-47 36.4	1.195	2.140	13.5	20.3
7 30	19 1.56	-21 0.0	2.056	3.018	7.5	20.0	7 30	18 46.23	-48 36.1	1.245	2.141	16.8	20.5
8 9	18 56.03	-21 14.6	2.133	3.030	10.7	20.2	8 9	18 35.86	-48 57.6	1.312	2.141	20.1	20.7
36927	2000 <i>SJ</i> ₂₁₆		7 9.8 258°52	3°6/ 8.4 18			144035	2004 <i>BA</i> ₂₄		7 9.8 188°17	0°5/10.0 18		
5 31	19 46.86	-28 47.7	1.995	2.812	14.6	19.0	5 31	19 47.09	-18 58.1	1.925	2.733	15.4	21.1
6 10	19 42.87	-29 39.0	1.895	2.795	11.7	18.7	6 10	19 42.70	-19 17.9	1.838	2.733	12.3	20.8
6 20	19 36.18	-30 33.2	1.817	2.778	8.4	18.5	6 20	19 35.80	-19 45.5	1.771	2.732	8.6	20.6
6 30	19 27.22	-31 25.5	1.763	2.761	5.1	18.3	6 30	19 26.91	-20 18.6	1.728	2.730	4.5	20.4
7 10	19 16.84	-32 10.3	1.736	2.743	3.7	18.1	7 10	19 16.89	-20 54.0	1.712	2.728	0.5	20.0
7 20	19 6.14	-32 43.3	1.736	2.725	6.2	18.3	7 20	19 6.76	-21 28.5	1.724	2.726	4.4	20.4
7 30	18 56.39	-33 2.3	1.762	2.706	9.8	18.4	7 30	18 57.64	-21 59.7	1.762	2.722	8.6	20.6
8 9	18 48.67	-33 8.0	1.811	2.687	13.3	18.6	8 9	18 50.46	-22 26.3	1.825	2.719	12.3	20.8
415770	2000 <i>SJ</i> ₃₄₂		7 9.8 286°22	6°0/ 8.2 17			204595	2005 <i>GA</i> ₁₂₂		7 9.8 205°30	0°3/ 9.9 17		
5 31	19 48.00	-32 17.1	1.425	2.263	18.3	21.6	5 31	19 44.42	-20 37.0	2.149	2.958	13.9	21.8
6 10	19 45.02	-33 11.9	1.337	2.247	14.9	21.3	6 10	19 40.29	-20 42.7	2.059	2.956	11.1	21.6
6 20	19 38.39	-34 7.7	1.269	2.232	11.1	21.0	6 20	19 33.96	-20 53.3	1.991	2.953	7.7	21.4
6 30	19 28.60	-34 56.9	1.222	2.216	7.4	20.8	6 30	19 25.92	-21 6.9	1.947	2.950	4.0	21.2
7 10	19 16.81	-35 31.1	1.198	2.200	6.1	20.7	7 10	19 16.92	-21 21.4	1.931	2.947	0.3	20.8
7 20	19 4.68	-35 44.6	1.198	2.184	8.8	20.8	7 20	19 7.86	-21 34.9	1.942	2.944	4.0	21.2
7 30	18 54.07	-35 36.1	1.222	2.168	12.9	21.0	7 30	18 59.71	-21 46.0	1.980	2.940	7.8	21.4
8 9	18 46.46	-35 8.8	1.265	2.153	17.1	21.2	8 9	18 53.26	-21 54.2	2.043	2.937	11.2	21.6
316322	2010 <i>RL</i> ₁₀₈		7 9										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
111513	2001 YA ₈₆		7 9.8	78°85'	2.1°/9.3	18	20394	Fatou		7 9.9	273°98'	0.3°/9.9	18 R
5 31	19 46.16	-28 47.3	2.215	3.027	13.5	19.6	5 31	19 42.85	-21 27.6	2.400	3.206	12.7	18.9
6 10	19 41.56	-28 49.8	2.136	3.034	10.7	19.4	6 10	19 38.88	-21 20.8	2.299	3.194	10.1	18.7
6 20	19 34.73	-28 51.0	2.079	3.041	7.5	19.2	6 20	19 32.91	-21 16.9	2.219	3.181	7.1	18.5
6 30	19 26.24	-28 48.1	2.047	3.047	4.1	19.0	6 30	19 25.38	-21 14.7	2.165	3.168	3.7	18.2
7 10	19 16.92	-28 38.8	2.042	3.054	2.1	18.9	7 10	19 16.97	-21 12.9	2.139	3.155	0.3	17.9
7 20	19 7.72	-28 22.1	2.064	3.061	4.5	19.1	7 20	19 8.45	-21 10.1	2.140	3.142	3.7	18.2
7 30	18 59.58	-27 58.5	2.114	3.067	7.9	19.3	7 30	19 0.70	-21 6.0	2.169	3.129	7.3	18.4
8 9	18 53.26	-27 29.4	2.188	3.074	10.9	19.5	8 9	18 54.44	-21 0.3	2.223	3.116	10.5	18.6
175122	2004 XM ₁₆₈		7 9.8	244°43'	13.7°/2.1	18	513486	2009 DE ₆₈		7 9.9	252°26'	2.2°/10.7	18
5 31	19 56.10	-39 36.8	1.235	2.068	20.8	20.0	5 31	19 43.98	-14 19.4	2.345	3.136	13.4	22.5
6 10	19 53.53	-42 55.8	1.166	2.060	17.9	19.7	6 10	19 39.89	-14 26.0	2.234	3.116	10.9	22.3
6 20	19 45.92	-46 19.7	1.118	2.052	15.2	19.5	6 20	19 33.73	-14 41.2	2.143	3.095	7.9	22.1
6 30	19 33.28	-49 29.2	1.092	2.043	13.8	19.4	6 30	19 25.87	-15 4.8	2.078	3.074	4.6	21.8
7 10	19 16.78	-52 3.4	1.088	2.034	14.4	19.4	7 10	19 16.96	-15 35.1	2.040	3.052	2.2	21.6
7 20	18 58.89	-53 47.6	1.107	2.025	16.7	19.5	7 20	19 7.79	-16 10.2	2.030	3.030	4.2	21.7
7 30	18 42.90	-54 38.6	1.145	2.015	19.8	19.7	7 30	18 59.26	-16 47.6	2.049	3.007	7.7	21.9
8 9	18 31.57	-54 44.6	1.198	2.005	22.8	19.9	8 9	18 52.19	-17 25.3	2.092	2.983	11.1	22.1
146890	2002 CA ₃₈		7 9.8	8°36'	0.7°/10.0	18	37765	1997 GF ₁₁		7 9.9	110°03'	2.9°/8.9	18
5 31	19 41.72	-20 48.4	1.854	2.678	15.2	19.1	5 31	19 44.95	-29 51.9	2.378	3.189	12.7	19.6
6 10	19 38.44	-20 37.6	1.774	2.679	12.1	18.9	6 10	19 40.56	-30 19.1	2.300	3.196	10.1	19.4
6 20	19 32.80	-20 31.1	1.715	2.681	8.5	18.7	6 20	19 34.05	-30 45.7	2.243	3.203	7.2	19.2
6 30	19 25.35	-20 27.8	1.680	2.683	4.4	18.5	6 30	19 25.93	-31 8.1	2.212	3.209	4.3	19.0
7 10	19 16.94	-20 25.9	1.670	2.686	0.7	18.2	7 10	19 16.97	-31 23.2	2.208	3.216	2.9	19.0
7 20	19 8.56	-20 24.4	1.686	2.689	4.4	18.5	7 20	19 8.06	-31 29.1	2.232	3.222	4.9	19.1
7 30	19 1.25	-20 22.2	1.728	2.693	8.4	18.7	7 30	19 0.10	-31 25.4	2.283	3.229	7.8	19.3
8 9	18 55.82	-20 19.2	1.794	2.698	12.0	18.9	8 9	18 53.83	-31 13.2	2.358	3.235	10.6	19.5
442029	2010 PZ ₄		7 9.8	321°06'	5.2°/10.8	18	77640	2001 KA ₅₈		7 9.9	57°02'	1.8°/10.5	18
5 31	19 41.87	-10 28.4	2.118	2.908	14.7	20.6	5 31	19 44.17	-15 51.1	1.483	2.309	18.3	19.4
6 10	19 38.21	-9 29.7	2.025	2.900	12.2	20.4	6 10	19 40.97	-16 8.6	1.411	2.315	14.7	19.2
6 20	19 32.49	-8 38.5	1.952	2.891	9.4	20.2	6 20	19 34.91	-16 38.6	1.357	2.321	10.4	19.0
6 30	19 25.16	-7 56.9	1.904	2.884	6.7	20.0	6 30	19 26.56	-17 19.2	1.326	2.327	5.7	18.7
7 10	19 16.95	-7 26.3	1.881	2.876	5.2	19.9	7 10	19 16.97	-18 6.9	1.319	2.334	1.8	18.5
7 20	19 8.66	-7 7.6	1.885	2.869	6.3	20.0	7 20	19 7.37	-18 57.3	1.337	2.340	5.2	18.7
7 30	19 1.20	-7 0.4	1.915	2.861	9.0	20.1	7 30	18 59.07	-19 46.3	1.380	2.347	9.9	19.0
8 9	18 55.30	-7 3.2	1.968	2.855	11.9	20.3	8 9	18 53.08	-20 31.0	1.446	2.354	14.0	19.3
390009	2012 TX ₃₁₃		7 9.8	188°88'	3.6°/8.4	18	19786	2000 QR ₁₀₄		7 9.9	67°27'	2.5°/10.9	18
5 31	19 46.50	-30 21.5	2.273	3.083	13.2	21.3	5 31	19 41.12	-13 2.5	2.200	2.998	14.0	18.5
6 10	19 42.06	-31 9.5	2.187	3.082	10.6	21.1	6 10	19 37.57	-13 14.4	2.114	2.999	11.3	18.3
6 20	19 35.27	-31 58.0	2.124	3.081	7.6	20.9	6 20	19 32.02	-13 36.5	2.049	3.001	8.2	18.1
6 30	19 26.62	-32 42.3	2.086	3.080	4.8	20.7	6 30	19 24.94	-14 8.2	2.008	3.003	4.9	17.9
7 10	19 16.92	-33 18.2	2.075	3.079	3.6	20.7	7 10	19 17.00	-14 47.5	1.993	3.004	2.5	17.8
7 20	19 7.14	-33 42.4	2.091	3.077	5.6	20.8	7 20	19 9.01	-15 31.9	2.006	3.006	4.3	17.9
7 30	18 58.31	-33 53.8	2.135	3.075	8.6	21.0	7 30	19 1.80	-16 18.6	2.047	3.008	7.6	18.1
8 9	18 51.29	-33 53.5	2.203	3.072	11.5	21.2	8 9	18 56.12	-17 4.9	2.112	3.010	10.7	18.3
425960	2011 HH ₁₈		7 9.8	85°40'	2.4°/9.2	17	117444	2005 AJ ₄₃		7 9.9	73°00'	0.7°/9.7	18
5 31	19 48.73	-26 53.8	1.775	2.595	16.0	21.3	5 31	19 49.19	-23 55.1	1.402	2.235	18.8	20.2
6 10	19 44.05	-27 22.8	1.712	2.615	12.6	21.1	6 10	19 45.06	-23 51.4	1.338	2.248	14.9	20.0
6 20	19 36.68	-27 53.2	1.670	2.634	8.8	20.9	6 20	19 37.73	-23 50.8	1.292	2.261	10.3	19.8
6 30	19 27.28	-28 20.8	1.652	2.654	4.8	20.7	6 30	19 27.95	-23 50.5	1.269	2.273	5.2	19.5
7 10	19 16.92	-28 41.4	1.660	2.673	2.5	20.6	7 10	19 16.97	-23 47.4	1.270	2.286	0.7	19.2
7 20	19 6.77	-28 52.5	1.695	2.692	5.3	20.8	7 20	19 6.24	-23 39.6	1.296	2.299	5.4	19.6
7 30	18 57.99	-28 53.5	1.756	2.710	9.1	21.1	7 30	18 57.17	-23 27.2	1.347	2.312	10.3	19.9
8 9	18 51.47	-28 46.0	1.840	2.729	12.5	21.3	8 9	18 50.78	-23 11.2	1.420	2.324	14.5	20.2
457190	2008 GC ₁₄₄		7 9.9	13°48'	8.2°/4.9	18	112865	2002 QE ₃₃		7 9.9	233°71'	0.1°/9.9	18
5 31	19 44.44	-34 37.7	1.670	2.503	16.3	19.5	5 31	19 43.75	-20 36.3	2.125	2.936	14.0	20.5
6 10	19 41.75	-37 3.6	1.607	2.509	13.3	19.3	6 10	19 39.87	-20 51.3	2.033	2.931	11.1	20.3
6 20	19 35.87	-39 30.9	1.565	2.515	10.5	19.1	6 20	19 33.76	-21 11.8	1.963	2.926	7.8	20.0
6 30	19 27.25	-41 48.9	1.549	2.522	8.5	19.0	6 30	19 25.89	-21 36.0	1.917	2.920	4.0	19.8
7 10	19 16.91	-43 46.7	1.557	2.531	8.5	19.1	7 10	19 17.01	-22 1.0	1.898	2.914	0.1	19.4
7 20	19 6.26	-45 16.6	1.592	2.540	10.4	19.2	7 20	19 8.04	-22 24.6	1.906	2.909	4.1	19.8
7 30	18 56.89	-46 15.9	1.649	2.550	13.1	19.4	7 30	18 59.94	-22 44.9	1.942	2.903	7.9	20.0
8 9	18 50.12	-46 47.1	1.727	2.561	15.7	19.6	8 9	18 53.53	-23 1.1	2.002	2.897	11.4	20.2
161841	2006 YN ₁₈		7 9.9	263°53'	0.3°/9.9	18	431340	2006 YM ₇		7 9.9	186°55'	2.7°/10.8	17
5 31	19 42.10	-18 37.5	2.289	3.095	13.3	20.3	5 31	19 46.79	-13 18.4	2.423	3.202	13.4	23.0
6 10	19 38.45	-19 9.0	2.190	3.084	10.6	20.1	6 10	19 41.81	-13 11.9	2.328	3.202	10.9	22.8
6 20	19 32.73	-19 48.4	2.112	3.073	7.4	19.9	6 20	19 34.86	-13 13.3	2.255	3.201	7.9	22.7
6 30	19 25.34	-20 33.5	2.059	3.062	3.8	19.7	6 30	19 26.36	-13 22.4	2.208	3.199	4.8	22.5
7 10	19 16.96	-21 21.5	2.034	3.050	0.3	19.3	7 10	19 17.01	-13 38.2	2.188	3.197	2.7	22.3
7 20	19 8.39	-22 9.0	2.037	3.039	3.9	19.6	7 20	19 7.59	-13 59.2	2.197	3.193	4.3	22.4
7 30	19 0.53	-22 53.5	2.067	3.027	7.6	19.8	7 30	18 58.94	-14 23.7	2.234	3.189	7.4	22.6
8 9	18 54.19	-23 33.1	2.123	3.015	10.9	20.0	8 9	18 51.77	-14 50.1	2.298	3.183	10.5	22.8
239734	2009 CG ₃₄		7 9.9	352°06'	0.7°/9.6	18	134700	1999 XB ₁₂₀		7 9.9	282°72'	0.8°/9.7	18
5 31	19 41.98	-21 38.5	1.749										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
105280	2000 QD ₃₅		7 9.9 193°36	1°3/10.4	18		243868	2000 WP ₁₈₉		7 9.9 270°07	0°6/10.0	18	
5 31	19 42.08	-16 54.8	3.151	3.935	10.5	21.1	5 31	19 45.17	-20 37.2	1.871	2.688	15.4	21.0
6 10	19 37.65	-16 53.0	3.053	3.933	8.4	21.0	6 10	19 41.42	-20 32.7	1.773	2.673	12.4	20.7
6 20	19 31.74	-16 55.7	2.977	3.930	5.9	20.8	6 20	19 35.11	-20 33.1	1.695	2.659	8.7	20.5
6 30	19 24.70	-17 2.3	2.929	3.926	3.3	20.6	6 30	19 26.72	-20 36.9	1.641	2.644	4.6	20.2
7 10	19 17.05	-17 11.8	2.909	3.922	1.3	20.5	7 10	19 17.10	-20 42.0	1.613	2.630	0.6	19.8
7 20	19 9.36	-17 23.2	2.918	3.918	3.1	20.6	7 20	19 7.28	-20 46.7	1.612	2.615	4.6	20.1
7 30	19 2.23	-17 35.4	2.957	3.913	5.7	20.8	7 30	18 58.44	-20 49.9	1.637	2.600	8.9	20.3
8 9	18 56.20	-17 47.7	3.022	3.907	8.2	20.9	8 9	18 51.54	-20 51.0	1.686	2.585	12.9	20.6
252785	2002 EJ ₁₃₄		7 9.9 126°44	4°4/11.8	16		2453	Wabash		7 9.9 304°47	5°6/ 7.9	18 R	
5 31	19 40.86	- 7 36.6	2.542	3.312	13.1	21.4	5 31	19 45.88	-35 51.9	2.072	2.888	14.1	15.8
6 10	19 36.97	- 7 21.1	2.458	3.319	10.8	21.2	6 10	19 42.09	-36 38.5	1.984	2.877	11.6	15.6
6 20	19 31.40	- 7 16.1	2.396	3.326	8.3	21.1	6 20	19 35.62	-37 21.9	1.916	2.866	8.8	15.4
6 30	19 24.56	- 7 22.2	2.358	3.333	5.9	20.9	6 30	19 26.98	-37 56.5	1.873	2.856	6.4	15.2
7 10	19 17.05	- 7 39.3	2.346	3.340	4.4	20.9	7 10	19 17.09	-38 17.3	1.855	2.845	5.7	15.2
7 20	19 9.55	- 8 5.9	2.362	3.346	5.2	20.9	7 20	19 7.09	-38 21.2	1.862	2.835	7.3	15.2
7 30	19 2.74	- 8 40.3	2.405	3.353	7.4	21.1	7 30	18 58.20	-38 7.8	1.895	2.825	10.1	15.4
8 9	18 57.23	- 9 19.7	2.474	3.359	9.8	21.2	8 9	18 51.42	-37 39.6	1.951	2.815	13.0	15.6
343679	2010 TV ₁₄₄		7 9.9 281°65	3°5/10.9	18		91316	1999 GW ₁₃		7 9.9 23°44	3°7/ 9.0	17	
5 31	19 41.14	-12 20.0	2.350	3.141	13.4	21.2	5 31	19 44.34	-28 34.9	1.316	2.166	18.9	19.5
6 10	19 37.47	-11 52.5	2.254	3.133	11.0	21.0	6 10	19 41.72	-29 6.6	1.254	2.173	15.0	19.3
6 20	19 31.91	-11 32.5	2.179	3.125	8.2	20.8	6 20	19 35.74	-29 39.4	1.210	2.181	10.6	19.1
6 30	19 24.89	-11 20.7	2.128	3.116	5.3	20.6	6 30	19 27.10	-30 7.6	1.188	2.190	6.1	18.9
7 10	19 17.05	-11 17.2	2.104	3.108	3.6	20.5	7 10	19 17.11	-30 25.6	1.189	2.200	3.8	18.7
7 20	19 9.13	-11 21.5	2.107	3.100	4.9	20.6	7 20	19 7.28	-30 30.1	1.214	2.211	6.9	19.0
7 30	19 1.92	-11 32.3	2.137	3.092	7.7	20.8	7 30	18 59.15	-30 20.8	1.261	2.222	11.2	19.2
8 9	18 56.12	-11 48.1	2.192	3.084	10.6	20.9	8 9	18 53.82	-30 0.3	1.330	2.234	15.3	19.5
44772	1999 TM ₁₃₉		7 9.9 54°83	4°8/11.1	18		180114	2003 FN ₃₄		7 9.9 64°85	1°3/10.3	16	
5 31	19 44.59	-12 13.7	1.412	2.233	19.3	19.4	5 31	19 42.29	-17 36.5	2.118	2.927	14.1	21.1
6 10	19 41.28	-11 40.8	1.345	2.241	15.8	19.2	6 10	19 38.55	-17 41.1	2.041	2.936	11.2	20.9
6 20	19 35.09	-11 20.7	1.295	2.249	11.7	18.9	6 20	19 32.73	-17 52.6	1.984	2.944	7.9	20.7
6 30	19 26.65	-11 14.6	1.266	2.258	7.5	18.7	6 30	19 25.34	-18 9.6	1.952	2.953	4.3	20.5
7 10	19 17.03	-11 22.3	1.260	2.267	4.8	18.6	7 10	19 17.13	-18 30.3	1.947	2.962	1.3	20.3
7 20	19 7.51	-11 41.8	1.280	2.276	6.7	18.7	7 20	19 8.96	-18 52.6	1.969	2.971	4.0	20.5
7 30	18 59.35	-12 10.3	1.323	2.285	10.6	19.0	7 30	19 1.70	-19 14.8	2.018	2.980	7.6	20.7
8 9	18 53.56	-12 44.3	1.387	2.295	14.5	19.2	8 9	18 56.07	-19 35.5	2.091	2.989	10.8	21.0
357581	2004 TF ₂₅₁		7 9.9 286°94	4°7/11.4	18		478629	2012 TJ ₁₈₆		7 9.9 316°44	10°4/10.7	16	
5 31	19 40.24	- 8 36.1	2.377	3.157	13.6	21.4	5 31	19 40.94	- 3 1.9	1.611	2.397	18.8	21.2
6 10	19 36.72	- 8 6.4	2.284	3.151	11.3	21.2	6 10	19 38.35	- 1 21.0	1.516	2.375	16.4	21.0
6 20	19 31.37	- 7 46.4	2.210	3.145	8.7	21.0	6 20	19 33.17	+ 0 8.4	1.439	2.354	13.8	20.7
6 30	19 24.61	- 7 37.3	2.161	3.138	6.2	20.8	6 30	19 25.82	+ 1 20.1	1.383	2.334	11.5	20.6
7 10	19 17.07	- 7 39.4	2.138	3.132	4.7	20.7	7 10	19 17.13	+ 2 8.9	1.350	2.314	10.5	20.4
7 20	19 9.45	- 7 52.2	2.142	3.126	5.6	20.8	7 20	19 8.13	+ 2 31.5	1.339	2.295	11.3	20.4
7 30	19 2.52	- 8 14.2	2.172	3.120	8.0	20.9	7 30	19 0.03	+ 2 27.6	1.350	2.276	13.6	20.5
8 9	18 56.96	- 8 43.1	2.227	3.114	10.7	21.1	8 9	18 53.89	+ 2 0.7	1.381	2.258	16.6	20.7
103935	2000 DS ₆₇		7 9.9 308°47	3°2/10.8	18		109057	2001 QT ₁₇		7 9.9 280°98	4°2/ 8.8	18	
5 31	19 41.01	-14 8.7	1.777	2.592	16.2	19.6	5 31	19 47.79	-30 19.5	1.691	2.518	16.3	19.6
6 10	19 38.19	-13 53.9	1.679	2.575	13.2	19.3	6 10	19 44.22	-30 54.1	1.594	2.499	13.2	19.4
6 20	19 32.92	-13 48.8	1.601	2.558	9.7	19.1	6 20	19 37.51	-31 29.5	1.516	2.478	9.6	19.1
6 30	19 25.61	-13 53.8	1.545	2.541	5.9	18.8	6 30	19 28.14	-32 0.2	1.461	2.458	5.9	18.8
7 10	19 17.08	-14 8.2	1.514	2.525	3.3	18.6	7 10	19 17.11	-32 20.7	1.430	2.438	4.2	18.7
7 20	19 8.32	-14 30.2	1.509	2.508	5.4	18.7	7 20	19 5.74	-32 26.7	1.426	2.417	6.9	18.8
7 30	19 0.45	-14 57.8	1.529	2.493	9.4	18.9	7 30	18 55.57	-32 17.1	1.446	2.397	11.0	19.0
8 9	18 54.45	-15 28.4	1.571	2.477	13.3	19.1	8 9	18 47.85	-31 54.1	1.488	2.376	15.0	19.2
123159	2000 TZ ₄₅		7 9.9 253°82	1°4/ 9.5	17		204799	2006 RW ₄		7 9.9 16°28	0°8/10.0	17	
5 31	19 46.62	-25 0.9	1.930	2.747	15.0	21.1	5 31	19 43.68	-22 6.0	1.523	2.359	17.4	19.9
6 10	19 42.55	-25 13.3	1.834	2.735	12.0	20.8	6 10	19 40.48	-21 35.5	1.453	2.364	13.9	19.7
6 20	19 35.88	-25 28.3	1.758	2.723	8.4	20.6	6 20	19 34.48	-21 7.7	1.401	2.370	9.7	19.4
6 30	19 27.09	-25 42.9	1.707	2.710	4.4	20.3	6 30	19 26.34	-20 41.8	1.372	2.376	5.0	19.2
7 10	19 17.07	-25 53.9	1.682	2.698	1.4	20.1	7 10	19 17.13	-20 17.0	1.367	2.384	0.8	18.9
7 20	19 6.89	-25 58.9	1.685	2.685	4.8	20.3	7 20	19 8.07	-19 53.0	1.388	2.392	5.0	19.2
7 30	18 57.72	-25 57.0	1.713	2.672	9.0	20.5	7 30	19 0.39	-19 29.9	1.434	2.401	9.5	19.5
8 9	18 50.56	-25 48.6	1.766	2.658	12.7	20.7	8 9	18 55.00	-19 8.4	1.501	2.411	13.5	19.8
201723	2003 UG ₁₉₂		7 9.9 259°25	1°9/10.4	18		358751	2008 CL ₁₄₁		7 9.9 71°44	1°8/10.5	18	
5 31	19 43.85	-17 4.9	2.042	2.848	14.6	20.5	5 31	19 42.16	-16 37.2	2.191	2.996	13.8	21.4
6 10	19 40.05	-16 54.4	1.945	2.837	11.8	20.3	6 10	19 38.39	-16 32.8	2.109	3.001	11.1	21.2
6 20	19 33.96	-16 50.5	1.868	2.826	8.4	20.1	6 20	19 32.60	-16 35.1	2.048	3.006	7.9	21.0
6 30	19 26.05	-16 52.6	1.816	2.815	4.7	19.8	6 30	19 25.28	-16 43.5	2.012	3.011	4.4	20.8
7 10	19 17.09	-16 59.5	1.790	2.803	1.9	19.6	7 10	19 17.15	-16 56.5	2.002	3.016	1.8	20.6
7 20	19 7.98	-17 9.8	1.791	2.792	4.5	19.8	7 20	19 9.03	-17 12.6	2.020	3.021	4.0	20.8
7 30	18 59.74	-17 22.0	1.819	2.780	8.3	20.0	7 30	19 1.77	-17 30.2	2.065	3.026	7.5	21.0
8 9	18 53.21	-17 34.9	1.871	2.768	11.9	20.2	8 9	18 56.09	-17 47.9	2.134	3.031	10.6	21.2
177121	2003 GW ₅₅		7 9.9 170°36	3°9/ 8.4	18		121537	Lorenzdavid		7 9.9 246°88	4°8/11.6	18	
5 31	19 45.86	-32 42.9	2.386	3.1									

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
20053	1993 <i>FK</i> ₂₉		7 9.9 260°37	8°2/12.3 18			154799	2004 <i>PN</i> ₈₂		7 9.9 347°23	1°7/ 9.5 18		
5 31	19 42.21	- 1 31.3	2.008	2.767	16.4	19.2	5 31	19 41.28	-24 33.0	1.326	2.178	18.6	19.9
6 10	19 38.72	- 0 38.0	1.914	2.755	14.2	19.0	6 10	19 39.39	-24 50.7	1.249	2.170	14.9	19.6
6 20	19 33.04	+ 0 0.8	1.838	2.744	11.8	18.8	6 20	19 34.27	-25 13.3	1.190	2.163	10.4	19.3
6 30	19 25.62	+ 0 21.6	1.784	2.733	9.5	18.7	6 30	19 26.49	-25 37.0	1.152	2.158	5.4	19.0
7 10	19 17.16	+ 0 22.2	1.754	2.721	8.3	18.6	7 10	19 17.19	-25 57.3	1.137	2.153	1.8	18.8
7 20	19 8.54	+ 0 2.3	1.749	2.709	8.8	18.6	7 20	19 7.79	-26 10.5	1.146	2.149	6.0	19.0
7 30	19 0.68	- 0 36.1	1.768	2.697	10.8	18.7	7 30	18 59.83	-26 14.8	1.178	2.146	11.0	19.3
8 9	18 54.44	- 1 29.0	1.811	2.685	13.4	18.8	8 9	18 54.51	-26 10.8	1.231	2.145	15.5	19.6
65981	1998 <i>HD</i> ₁₁₉		7 9.9 75°42	8°0/13.2 18			504794	2010 <i>AQ</i> ₆₅		7 9.9 193°46	3°2/ 8.9 18		
5 31	19 43.59	- 1 15.0	1.788	2.552	18.0	19.4	5 31	19 50.05	-31 8.6	2.380	3.181	13.0	23.0
6 10	19 39.73	- 0 38.1	1.725	2.571	15.3	19.3	6 10	19 44.73	-31 30.6	2.290	3.179	10.4	22.8
6 20	19 33.61	- 0 19.8	1.679	2.590	12.4	19.1	6 20	19 37.08	-31 51.0	2.221	3.176	7.5	22.6
6 30	19 25.80	- 0 22.7	1.656	2.609	9.7	19.0	6 30	19 27.63	-32 5.8	2.178	3.173	4.6	22.4
7 10	19 17.17	- 0 47.2	1.655	2.628	8.1	19.0	7 10	19 17.19	-32 11.7	2.163	3.169	3.2	22.3
7 20	19 8.65	- 1 31.4	1.680	2.647	8.5	19.0	7 20	19 6.73	-32 7.0	2.176	3.164	5.1	22.4
7 30	19 1.21	- 2 31.3	1.729	2.666	10.5	19.2	7 30	18 57.27	-31 51.4	2.216	3.159	8.2	22.6
8 9	18 55.60	- 3 41.3	1.802	2.684	13.0	19.4	8 9	18 49.64	-31 26.8	2.282	3.153	11.1	22.8
286539	2002 <i>CT</i> ₁₂₂		7 9.9 125°61	0°1/ 9.9 17			14743	2016 <i>P-L</i>		7 9.9 323°56	4°6/11.1 18		
5 31	19 49.52	-22 11.2	1.520	2.345	18.0	21.2	5 31	19 40.34	-11 39.4	1.710	2.523	16.8	17.8
6 10	19 45.21	-22 3.1	1.446	2.351	14.3	21.0	6 10	19 37.70	-11 11.7	1.619	2.510	13.9	17.5
6 20	19 37.86	-21 59.2	1.391	2.357	10.0	20.7	6 20	19 32.59	-10 55.0	1.547	2.498	10.4	17.3
6 30	19 28.12	-21 57.3	1.359	2.363	5.1	20.5	6 30	19 25.49	-10 50.7	1.496	2.486	6.9	17.1
7 10	19 17.14	-21 54.9	1.352	2.369	0.1	20.1	7 10	19 17.21	-10 59.0	1.470	2.475	4.6	16.9
7 20	19 6.26	-21 50.1	1.371	2.374	5.2	20.5	7 20	19 8.76	-11 18.7	1.469	2.465	6.2	17.0
7 30	18 56.85	-21 42.6	1.415	2.379	9.9	20.8	7 30	19 1.25	-11 47.5	1.493	2.455	9.8	17.2
8 9	18 49.94	-21 32.8	1.481	2.384	14.1	21.0	8 9	18 55.63	-12 22.4	1.539	2.445	13.5	17.4
441975	2010 <i>MX</i> ₉₃		7 9.9 349°95	0°1/ 9.9 18			91480	1999 <i>RP</i> ₁₀₇		7 9.9 214°23	3°1/10.8 18		
5 31	19 47.02	-25 7.7	2.027	2.840	14.5	20.5	5 31	19 42.45	-13 41.6	2.442	3.232	13.0	19.1
6 10	19 42.46	-24 32.1	1.939	2.838	11.5	20.3	6 10	19 38.40	-13 13.3	2.350	3.230	10.6	19.0
6 20	19 35.53	-23 55.3	1.872	2.836	8.0	20.1	6 20	19 32.53	-12 51.3	2.280	3.228	7.8	18.8
6 30	19 26.80	-23 16.2	1.830	2.834	4.1	19.8	6 30	19 25.26	-12 36.2	2.235	3.225	4.9	18.6
7 10	19 17.16	-22 34.1	1.816	2.832	0.1	19.5	7 10	19 17.23	-12 27.9	2.216	3.223	3.1	18.5
7 20	19 7.61	-21 49.6	1.829	2.831	4.2	19.8	7 20	19 9.18	-12 25.9	2.226	3.220	4.5	18.6
7 30	18 59.16	-21 3.9	1.869	2.830	8.2	20.1	7 30	19 1.86	-12 29.4	2.263	3.218	7.3	18.7
8 9	18 52.63	-20 18.9	1.934	2.830	11.7	20.3	8 9	18 55.93	-12 37.1	2.325	3.215	10.2	18.9
83708	2001 <i>TW</i> ₇₇		7 9.9 268°32	2°3/ 8.9 18			54309	2000 <i>JN</i> ₇₃		7 9.9 255°84	3°6/11.4 18		
5 31	19 43.98	-26 39.2	2.209	3.024	13.4	19.7	5 31	19 43.43	-10 31.6	1.743	2.544	17.0	19.1
6 10	19 40.19	-27 14.7	2.113	3.013	10.7	19.5	6 10	19 40.11	-10 48.7	1.653	2.538	13.9	18.9
6 20	19 34.11	-27 53.0	2.039	3.002	7.5	19.3	6 20	19 34.27	-11 21.5	1.582	2.533	10.3	18.7
6 30	19 26.19	-28 30.4	1.990	2.991	4.2	19.0	6 30	19 26.36	-12 9.7	1.535	2.527	6.4	18.4
7 10	19 17.18	-29 3.3	1.967	2.979	2.3	18.9	7 10	19 17.22	-13 11.1	1.512	2.521	3.6	18.3
7 20	19 8.00	-29 28.4	1.973	2.968	4.9	19.1	7 20	19 7.88	-14 21.4	1.516	2.515	5.4	18.3
7 30	18 59.66	-29 44.2	2.004	2.956	8.3	19.2	7 30	18 59.48	-15 35.9	1.546	2.509	9.3	18.6
8 9	18 53.05	-29 50.8	2.061	2.944	11.6	19.4	8 9	18 53.01	-16 49.8	1.600	2.503	13.2	18.8
439450	2013 <i>XN</i> ₂₃		7 9.9 192°62	0°1/ 9.9 18			45221	1999 <i>XQ</i> ₁₈₈		7 9.9 187°65	1°7/ 9.6 18		
5 31	19 47.75	-23 19.3	2.120	2.927	14.2	21.5	5 31	19 49.74	-26 24.9	1.725	2.545	16.4	18.7
6 10	19 42.98	-23 8.2	2.031	2.926	11.3	21.3	6 10	19 45.22	-26 29.3	1.642	2.545	13.1	18.5
6 20	19 35.89	-22 58.8	1.963	2.925	7.9	21.1	6 20	19 37.81	-26 34.6	1.580	2.544	9.2	18.2
6 30	19 27.01	-22 49.3	1.920	2.923	4.0	20.8	6 30	19 28.13	-26 37.4	1.541	2.543	4.8	18.0
7 10	19 17.18	-22 38.2	1.904	2.921	0.1	20.5	7 10	19 17.21	-26 34.4	1.528	2.542	1.7	17.8
7 20	19 7.35	-22 24.4	1.917	2.918	4.1	20.8	7 20	19 6.31	-26 23.9	1.541	2.541	5.2	18.0
7 30	18 58.54	-22 8.1	1.956	2.916	8.0	21.0	7 30	18 56.73	-26 5.8	1.581	2.540	9.5	18.2
8 9	18 51.56	-21 49.7	2.021	2.913	11.4	21.3	8 9	18 49.49	-25 41.9	1.643	2.538	13.4	18.5
94002	2000 <i>XX</i> ₂₂		7 9.9 81°84	0°6/ 9.8 18			404903	2014 <i>KD</i> ₈₇		7 9.9 349°68	4°1/12.3 18		
5 31	19 47.10	-25 36.2	2.287	3.093	13.3	19.0	5 31	19 40.74	- 6 25.7	2.179	2.955	14.8	20.1
6 10	19 42.14	-25 16.0	2.208	3.103	10.5	18.8	6 10	19 37.38	- 6 55.0	2.088	2.953	12.3	19.9
6 20	19 35.08	-24 55.4	2.151	3.113	7.3	18.7	6 20	19 32.02	- 7 40.5	2.016	2.952	9.3	19.7
6 30	19 26.50	-24 32.9	2.120	3.123	3.7	18.5	6 30	19 25.09	- 8 42.0	1.969	2.950	6.3	19.5
7 10	19 17.18	-24 7.3	2.117	3.133	0.6	18.2	7 10	19 17.25	- 9 57.3	1.948	2.949	4.2	19.4
7 20	19 8.03	-23 38.4	2.141	3.143	3.8	18.5	7 20	19 9.29	-11 22.7	1.955	2.948	5.1	19.4
7 30	18 59.90	-23 6.9	2.194	3.152	7.3	18.7	7 30	19 2.06	-12 53.4	1.990	2.948	7.9	19.6
8 9	18 53.50	-22 34.1	2.272	3.162	10.4	18.9	8 9	18 56.30	-14 24.7	2.050	2.947	11.0	19.8
287215	2002 <i>SU</i> ₇₀		7 9.9 299°80	1°9/ 9.4 18			507791	2014 <i>BP</i> ₇		7 9.9 118°00	0°9/10.3 17		
5 31	19 44.41	-26 5.7	1.850	2.675	15.2	21.4	5 31	19 44.08	-17 46.6	2.095	2.901	14.3	22.1
6 10	19 40.96	-26 22.7	1.758	2.664	12.2	21.2	6 10	19 40.05	-18 3.9	2.015	2.909	11.4	21.9
6 20	19 34.87	-26 42.1	1.686	2.652	8.5	20.9	6 20	19 33.86	-18 28.7	1.957	2.917	8.0	21.7
6 30	19 26.65	-27 0.4	1.638	2.641	4.6	20.7	6 30	19 26.00	-18 59.3	1.923	2.924	4.2	21.5
7 10	19 17.18	-27 14.2	1.615	2.630	1.9	20.5	7 10	19 17.25	-19 33.0	1.916	2.932	0.9	21.3
7 20	19 7.57	-27 20.7	1.619	2.619	5.1	20.7	7 20	19 8.50	-20 7.2	1.936	2.939	4.0	21.5
7 30	18 59.02	-27 18.9	1.649	2.608	9.2	20.9	7 30	19 0.67	-20 39.6	1.984	2.946	7.7	21.8
8 9	18 52.52	-27 9.5	1.702	2.597	13.0	21.1	8 9	18 54.54	-21 8.7	2.057	2.953	11.0	22.0
478300	2011 <i>WB</i> ₃₃		7										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
391585	2007 <i>TS</i> ₃₇₄		7 9.9 335°72	3°9/10.9	16		342126	2008 <i>SQ</i> ₁₁₇		7 9.9 267°65	1°0/ 9.6	17	
5 31	19 41.56	-13 22.4	1.711	2.526	16.7	21.2	5 31	19 45.21	-23 33.8	1.863	2.684	15.3	21.8
6 10	19 38.61	-12 55.6	1.625	2.520	13.6	20.9	6 10	19 41.51	-23 49.5	1.772	2.675	12.2	21.6
6 20	19 33.19	-12 38.6	1.559	2.514	10.1	20.7	6 20	19 35.23	-24 9.4	1.701	2.667	8.5	21.4
6 30	19 25.78	-12 32.3	1.515	2.509	6.3	20.5	6 30	19 26.86	-24 30.6	1.655	2.658	4.4	21.1
7 10	19 17.26	-12 36.3	1.496	2.504	3.9	20.3	7 10	19 17.28	-24 49.9	1.634	2.650	1.0	20.8
7 20	19 8.65	-12 49.6	1.502	2.499	5.7	20.4	7 20	19 7.56	-25 4.4	1.640	2.641	4.8	21.1
7 30	19 1.06	-13 10.1	1.533	2.495	9.5	20.6	7 30	18 58.87	-25 12.8	1.671	2.632	9.0	21.3
8 9	18 55.39	-13 35.3	1.586	2.492	13.2	20.9	8 9	18 52.19	-25 14.9	1.727	2.623	12.8	21.5
20776	Juliekrugler		7 9.9 257°90	2°0/10.6	18		52565	1997 <i>GO</i> ₂₂		7 9.9 38°75	1°6/10.3	18	
5 31	19 44.13	-15 57.6	1.993	2.799	15.0	19.3	5 31	19 44.53	-18 37.7	1.309	2.149	19.5	18.9
6 10	19 40.42	-15 58.6	1.893	2.784	12.1	19.0	6 10	19 41.58	-18 29.3	1.247	2.160	15.6	18.7
6 20	19 34.37	-16 8.1	1.813	2.770	8.7	18.8	6 20	19 35.50	-18 29.7	1.202	2.171	11.0	18.5
6 30	19 26.39	-16 25.5	1.756	2.755	4.9	18.5	6 30	19 27.00	-18 37.6	1.179	2.182	5.8	18.2
7 10	19 17.26	-16 49.1	1.726	2.740	2.0	18.3	7 10	19 17.28	-18 50.4	1.179	2.195	1.6	18.0
7 20	19 7.90	-17 16.7	1.724	2.725	4.6	18.5	7 20	19 7.72	-19 5.5	1.203	2.208	5.5	18.3
7 30	18 59.37	-17 46.0	1.747	2.709	8.5	18.7	7 30	18 59.71	-19 20.7	1.251	2.221	10.4	18.6
8 9	18 52.58	-18 15.1	1.795	2.693	12.3	18.9	8 9	18 54.28	-19 34.5	1.321	2.234	14.7	18.9
22654	1998 <i>QA</i> ₅		7 9.9 214°56	3°1/10.6	18		148133	1999 <i>TO</i> ₂₅₈		7 9.9 285°40	2°4/ 9.1	18	
5 31	19 46.39	-15 0.4	1.792	2.597	16.4	19.0	5 31	19 43.79	-28 6.4	2.275	3.089	13.1	20.4
6 10	19 42.32	-14 36.0	1.703	2.593	13.3	18.8	6 10	19 39.97	-28 29.9	2.179	3.079	10.4	20.2
6 20	19 35.71	-14 19.7	1.634	2.589	9.7	18.6	6 20	19 33.92	-28 54.3	2.106	3.068	7.4	20.0
6 30	19 27.06	-14 11.8	1.589	2.585	5.8	18.3	6 30	19 26.11	-29 16.2	2.057	3.057	4.2	19.8
7 10	19 17.26	-14 11.7	1.569	2.580	3.2	18.2	7 10	19 17.29	-29 32.4	2.035	3.047	2.4	19.6
7 20	19 7.36	-14 18.2	1.576	2.574	5.4	18.3	7 20	19 8.36	-29 40.6	2.041	3.036	4.8	19.8
7 30	18 58.51	-14 29.9	1.608	2.569	9.3	18.5	7 30	19 0.28	-29 40.1	2.074	3.025	8.1	20.0
8 9	18 51.65	-14 45.2	1.665	2.563	13.1	18.7	8 9	18 53.90	-29 31.3	2.130	3.015	11.2	20.1
40985	1999 <i>TM</i> ₂₈₈		7 9.9 98°12	0°5/10.1	18		154517	2003 <i>FO</i> ₆₉		7 9.9 73°11	1°6/10.4	17	
5 31	19 42.49	-19 24.3	2.445	3.248	12.6	19.3	5 31	19 44.92	-16 36.0	1.651	2.469	17.1	20.3
6 10	19 38.44	-19 34.2	2.366	3.259	10.0	19.2	6 10	19 41.24	-16 48.5	1.581	2.481	13.6	20.1
6 20	19 32.55	-19 49.2	2.309	3.269	7.0	19.0	6 20	19 34.95	-17 11.1	1.531	2.493	9.6	19.8
6 30	19 25.26	-20 7.6	2.277	3.279	3.6	18.8	6 30	19 26.64	-17 42.1	1.504	2.505	5.2	19.6
7 10	19 17.27	-20 27.5	2.273	3.289	0.5	18.6	7 10	19 17.29	-18 18.4	1.502	2.518	1.6	19.4
7 20	19 9.31	-20 47.2	2.297	3.300	3.5	18.8	7 20	19 7.99	-18 56.5	1.527	2.530	4.8	19.6
7 30	19 2.15	-21 5.3	2.349	3.310	6.8	19.1	7 30	18 59.91	-19 33.6	1.577	2.542	9.0	19.9
8 9	18 56.44	-21 20.9	2.427	3.319	9.7	19.3	8 9	18 53.95	-20 7.5	1.650	2.554	12.8	20.2
206886	2004 <i>GJ</i> ₁₅		7 9.9 161°65	14°2/17.4	18		117019	2004 <i>JB</i> ₁₀		7 9.9 358°57	1°4/10.6	18	
5 31	19 47.84	+10 32.5	1.293	2.023	25.1	20.5	5 31	19 40.73	-15 19.0	1.900	2.714	15.3	19.1
6 10	19 44.35	+11 0.5	1.221	2.027	22.6	20.4	6 10	19 37.75	-15 49.6	1.816	2.713	12.3	18.9
6 20	19 37.62	+10 52.8	1.162	2.031	19.8	20.2	6 20	19 32.49	-16 31.6	1.751	2.712	8.7	18.7
6 30	19 28.22	+10 1.4	1.118	2.034	16.9	20.0	6 30	19 25.42	-17 23.3	1.711	2.711	4.8	18.4
7 10	19 17.24	+8 22.9	1.094	2.036	14.7	19.9	7 10	19 17.30	-18 21.5	1.696	2.711	1.5	18.2
7 20	19 6.10	+6 0.8	1.091	2.038	14.3	19.8	7 20	19 9.07	-19 22.1	1.708	2.712	4.3	18.4
7 30	18 56.32	+3 5.4	1.111	2.039	15.7	19.9	7 30	19 1.74	-20 21.3	1.747	2.712	8.3	18.7
8 9	18 49.16	-0 8.0	1.153	2.040	18.4	20.1	8 9	18 56.17	-21 16.2	1.810	2.713	11.9	18.9
438418	2006 <i>VC</i> ₆₆		7 9.9 354°15	4°7/10.9	18		390442	2013 <i>YY</i> ₆₈		7 9.9 96°37	0°8/ 9.7	17	
5 31	19 42.03	-11 17.0	1.977	2.775	15.4	20.5	5 31	19 46.07	-23 54.4	2.014	2.828	14.5	21.3
6 10	19 38.53	-10 31.2	1.892	2.773	12.7	20.3	6 10	19 41.74	-24 0.6	1.938	2.838	11.5	21.1
6 20	19 32.86	-9 54.1	1.828	2.772	9.6	20.2	6 20	19 35.07	-24 9.4	1.883	2.847	8.0	20.9
6 30	19 25.52	-9 27.3	1.786	2.771	6.5	20.0	6 30	19 26.63	-24 18.2	1.853	2.856	4.1	20.7
7 10	19 17.28	-9 11.7	1.770	2.770	4.8	19.9	7 10	19 17.29	-24 24.7	1.849	2.866	0.8	20.5
7 20	19 9.01	-9 7.1	1.780	2.770	6.0	19.9	7 20	19 8.04	-24 27.1	1.873	2.875	4.3	20.7
7 30	19 1.65	-9 12.5	1.816	2.770	8.9	20.1	7 30	18 59.88	-24 24.8	1.924	2.884	8.1	21.0
8 9	18 55.96	-9 26.0	1.876	2.770	12.0	20.3	8 9	18 53.59	-24 18.2	1.999	2.893	11.4	21.2
377136	2003 <i>KR</i> ₁₅		7 9.9 254°74	5°4/11.2	18		425942	2011 <i>GT</i> ₇₁		7 9.9 77°74	2°6/ 9.3	17	
5 31	19 44.44	-9 7.8	1.972	2.758	15.8	20.5	5 31	19 49.77	-27 27.7	1.720	2.541	16.4	20.9
6 10	19 40.62	-8 30.2	1.871	2.743	13.2	20.3	6 10	19 44.99	-27 53.0	1.661	2.563	12.9	20.7
6 20	19 34.48	-8 3.0	1.790	2.727	10.2	20.1	6 20	19 37.44	-28 19.1	1.622	2.586	9.0	20.5
6 30	19 26.45	-7 48.1	1.731	2.711	7.2	19.9	6 30	19 27.84	-28 41.6	1.607	2.609	4.9	20.3
7 10	19 17.27	-7 46.4	1.698	2.695	5.4	19.7	7 10	19 17.29	-28 56.5	1.618	2.631	2.6	20.2
7 20	19 7.88	-7 57.5	1.691	2.678	6.6	19.8	7 20	19 7.01	-29 1.4	1.656	2.653	5.4	20.5
7 30	18 59.28	-8 20.1	1.711	2.661	9.6	19.9	7 30	18 58.19	-28 56.3	1.720	2.675	9.2	20.7
8 9	18 52.39	-8 51.3	1.753	2.643	13.0	20.1	8 9	18 51.70	-28 43.0	1.807	2.696	12.7	21.0
307040	2001 <i>XZ</i> ₂₄₀		7 9.9 228°40	0°7/ 9.7	18		226544	2003 <i>UZ</i> ₂₄₅		7 9.9 244°96	5°7/11.9	18	
5 31	19 48.88	-24 12.1	2.295	3.095	13.4	21.4	5 31	19 39.91	-3 3.1	2.902	3.646	12.2	20.9
6 10	19 43.89	-24 13.4	2.191	3.082	10.7	21.2	6 10	19 36.15	-2 20.9	2.802	3.636	10.4	20.7
6 20	19 36.60	-24 16.5	2.108	3.069	7.5	21.0	6 20	19 30.87	-1 48.6	2.723	3.627	8.5	20.6
6 30	19 27.47	-24 19.0	2.052	3.054	3.9	20.7	6 30	19 24.42	-1 28.0	2.668	3.617	6.7	20.4
7 10	19 17.27	-24 18.8	2.023	3.039	0.7	20.5	7 10	19 17.32	-1 20.1	2.639	3.607	5.8	20.4
7 20	19 6.93	-24 14.3	2.023	3.023	4.1	20.7	7 20	19 10.13	-1 25.0	2.637	3.596	6.2	20.4
7 30	18 57.45	-24 5.0	2.051	3.007	7.9	20.9	7 30	19 3.48	-1 41.8	2.661	3.586	7.8	20.5
8 9	18 49.69	-23 51.6	2.104	2.990	11.3	21.1	8 9	18 57.90	-2 8.4	2.711	3.575	9.8	20.6
186996	2004 <i>TK</i> ₆₈		7 9.9 315°19	8°7/ 5.5	18		169932	2002 <i>TX</i> ₁₁		7 9.9 314°22	3°8/ 8.7	18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
397386	2006 VC ₅₆		7 9.9 267°35	3°9/ 8.2 18			8309	1996 NL ₁		7 9.9 286°57	0°2/ 9.9 18		
5 31	19 44.74	-30 12.9	2.207	3.022	13.4	21.3	5 31	19 46.70	-22 38.4	1.433	2.268	18.4	17.6
6 10	19 40.94	-31 10.7	2.117	3.015	10.8	21.1	6 10	19 43.49	-22 35.6	1.347	2.259	14.7	17.3
6 20	19 34.74	-32 9.9	2.049	3.007	7.8	20.9	6 20	19 37.06	-22 37.4	1.280	2.249	10.4	17.1
6 30	19 26.60	-33 5.8	2.006	3.000	5.0	20.7	6 30	19 27.97	-22 41.4	1.235	2.240	5.3	16.7
7 10	19 17.30	-33 53.5	1.990	2.992	3.9	20.6	7 10	19 17.32	-22 44.6	1.214	2.231	0.2	16.3
7 20	19 7.83	-34 29.1	2.001	2.985	5.9	20.7	7 20	19 6.50	-22 44.5	1.218	2.222	5.5	16.7
7 30	18 59.24	-34 50.8	2.038	2.977	9.0	20.9	7 30	18 57.04	-22 40.1	1.246	2.213	10.7	17.0
8 9	18 52.47	-34 59.3	2.099	2.970	12.0	21.1	8 9	18 50.18	-22 31.8	1.296	2.204	15.3	17.2
342764	2008 WL ₉₅		7 9.9 279°56	1°1/ 9.5 18			145490	2005 VB ₁₀₂		7 9.9 275°18	2°2/ 9.3 18		
5 31	19 44.18	-22 10.6	1.875	2.696	15.2	21.3	5 31	19 45.24	-28 44.8	2.312	3.123	13.0	20.1
6 10	19 40.83	-22 46.3	1.775	2.679	12.2	21.0	6 10	19 41.02	-28 53.2	2.218	3.115	10.4	19.9
6 20	19 34.89	-23 29.3	1.696	2.662	8.5	20.8	6 20	19 34.58	-29 0.8	2.146	3.107	7.3	19.7
6 30	19 26.78	-24 16.4	1.641	2.645	4.4	20.5	6 30	19 26.43	-29 4.7	2.099	3.099	4.1	19.4
7 10	19 17.30	-25 3.5	1.612	2.628	1.1	20.2	7 10	19 17.34	-29 2.5	2.079	3.090	2.2	19.3
7 20	19 7.52	-25 46.3	1.610	2.610	4.9	20.4	7 20	19 8.20	-28 52.6	2.086	3.082	4.6	19.4
7 30	18 58.62	-26 21.9	1.633	2.593	9.2	20.6	7 30	18 59.97	-28 34.8	2.121	3.074	7.9	19.6
8 9	18 51.67	-26 48.9	1.681	2.576	13.1	20.8	8 9	18 53.45	-28 10.6	2.180	3.065	11.0	19.8
122844	2000 ST ₁₂₅		7 9.9 337°72	0°9/10.1 18			467400	2005 GW ₁₂₄		7 9.9 76°61	0°2/ 9.9 17		
5 31	19 39.77	-19 35.9	1.339	2.187	18.7	19.4	5 31	19 47.58	-20 6.8	1.457	2.286	18.4	21.3
6 10	19 38.12	-19 37.3	1.256	2.174	15.0	19.1	6 10	19 43.71	-20 23.5	1.394	2.301	14.6	21.1
6 20	19 33.40	-19 47.4	1.191	2.162	10.6	18.8	6 20	19 36.85	-20 48.4	1.349	2.316	10.2	20.8
6 30	19 26.12	-20 4.7	1.147	2.152	5.6	18.5	6 30	19 27.67	-21 18.4	1.327	2.332	5.2	20.6
7 10	19 17.31	-20 26.4	1.125	2.142	0.9	18.1	7 10	19 17.33	-21 49.4	1.330	2.347	0.2	20.2
7 20	19 8.30	-20 49.2	1.128	2.133	5.5	18.5	7 20	19 7.14	-22 17.8	1.359	2.362	5.1	20.7
7 30	19 0.56	-21 10.3	1.153	2.125	10.7	18.7	7 30	18 58.45	-22 41.4	1.412	2.377	9.8	21.0
8 9	18 55.31	-21 28.0	1.199	2.118	15.4	19.0	8 9	18 52.24	-22 59.2	1.488	2.392	13.9	21.3
267411	2002 AF ₁₈₁		7 9.9 86°28	6°8/ 8.7 17			211154	2002 GP ₁₅₅		7 9.9 185°04	3°3/ 8.8 17		
5 31	19 55.20	-39 3.9	1.796	2.603	16.4	20.4	5 31	19 48.43	-26 23.3	1.558	2.388	17.4	20.3
6 10	19 49.56	-39 41.4	1.738	2.622	13.4	20.3	6 10	19 44.72	-27 19.1	1.480	2.388	13.9	20.0
6 20	19 40.73	-40 10.8	1.699	2.640	10.4	20.1	6 20	19 37.84	-28 20.4	1.422	2.388	9.8	19.8
6 30	19 29.54	-40 25.4	1.683	2.659	7.7	20.0	6 30	19 28.34	-29 21.1	1.386	2.388	5.6	19.5
7 10	19 17.29	-40 20.1	1.693	2.678	6.8	20.0	7 10	19 17.32	-30 14.5	1.376	2.387	3.4	19.4
7 20	19 5.44	-39 53.7	1.728	2.696	8.2	20.1	7 20	19 6.16	-30 55.1	1.392	2.386	6.5	19.6
7 30	18 55.37	-39 8.6	1.788	2.714	10.9	20.3	7 30	18 56.36	-31 20.5	1.432	2.385	10.8	19.8
8 9	18 48.05	-38 9.9	1.871	2.732	13.6	20.5	8 9	18 49.11	-31 31.5	1.494	2.384	14.8	20.1
20001	1991 CM		7 9.9 30°48	3°1/11.6 18			335130	2004 TQ ₃₁₆		7 9.9 187°18	3°2/ 11.0 17		
5 31	19 40.68	-10 3.0	1.982	2.778	15.4	17.0	5 31	19 44.69	-12 32.9	2.205	2.993	14.3	21.9
6 10	19 37.49	-10 33.3	1.903	2.785	12.5	16.8	6 10	19 40.44	-12 22.2	2.114	2.992	11.6	21.7
6 20	19 32.18	-11 18.2	1.843	2.792	9.2	16.6	6 20	19 34.12	-12 20.7	2.045	2.992	8.6	21.5
6 30	19 25.21	-12 16.7	1.808	2.799	5.7	16.4	6 30	19 26.18	-12 28.4	2.000	2.990	5.3	21.3
7 10	19 17.33	-13 25.9	1.798	2.807	3.2	16.2	7 10	19 17.35	-12 44.3	1.981	2.989	3.2	21.2
7 20	19 9.39	-14 41.8	1.816	2.815	4.7	16.3	7 20	19 8.44	-13 7.0	1.991	2.987	4.7	21.3
7 30	19 2.33	-15 59.8	1.861	2.824	8.0	16.6	7 30	19 0.36	-13 34.5	2.027	2.984	7.9	21.5
8 9	18 56.91	-17 15.7	1.930	2.833	11.4	16.8	8 9	18 53.85	-14 4.8	2.089	2.981	11.1	21.7
253537	2003 SP ₂₁₈		7 9.9 194°44	4°5/11.2 18			479232	2013 CS ₁₉₃		7 9.9 258°46	4°3/ 8.5 18		
5 31	19 46.27	-10 43.4	1.834	2.627	16.6	21.1	5 31	19 46.71	-33 37.1	2.246	3.056	13.4	21.9
6 10	19 42.14	-10 22.6	1.747	2.625	13.7	20.9	6 10	19 42.42	-34 9.9	2.157	3.049	10.8	21.7
6 20	19 35.54	-10 13.4	1.679	2.623	10.3	20.7	6 20	19 35.69	-34 40.2	2.089	3.043	8.0	21.5
6 30	19 26.99	-10 16.8	1.634	2.621	6.8	20.5	6 30	19 27.05	-35 3.6	2.046	3.036	5.4	21.3
7 10	19 17.32	-10 32.3	1.614	2.618	4.5	20.3	7 10	19 17.34	-35 16.0	2.030	3.029	4.3	21.2
7 20	19 7.54	-10 58.4	1.621	2.614	6.0	20.4	7 20	19 7.57	-35 15.1	2.041	3.022	6.1	21.3
7 30	18 58.75	-11 32.5	1.654	2.610	9.4	20.6	7 30	18 58.82	-35 0.6	2.078	3.015	8.9	21.5
8 9	18 51.86	-12 11.5	1.711	2.606	12.9	20.8	8 9	18 51.97	-34 34.7	2.138	3.008	11.8	21.7
73877	1997 CS ₆		7 9.9 168°89	0°8/10.2 18			349414	2007 YA ₆₆		7 9.9 215°28	1°0/10.4 18		
5 31	19 48.01	-18 45.4	1.926	2.731	15.4	20.7	5 31	19 42.73	-16 42.2	2.335	3.135	13.2	21.1
6 10	19 43.44	-18 58.2	1.842	2.735	12.3	20.4	6 10	19 38.90	-17 9.4	2.242	3.131	10.6	20.9
6 20	19 36.39	-19 18.3	1.779	2.739	8.7	20.2	6 20	19 33.07	-17 45.0	2.170	3.127	7.5	20.7
6 30	19 27.39	-19 43.6	1.740	2.742	4.5	20.0	6 30	19 25.66	-18 27.3	2.123	3.124	4.0	20.5
7 10	19 17.32	-20 11.4	1.728	2.744	0.8	19.7	7 10	19 17.35	-19 13.7	2.104	3.119	1.0	20.2
7 20	19 7.19	-20 38.9	1.743	2.746	4.4	20.0	7 20	19 8.91	-20 1.2	2.113	3.115	3.7	20.4
7 30	18 58.12	-21 4.0	1.786	2.747	8.5	20.2	7 30	19 1.21	-20 47.2	2.150	3.111	7.3	20.7
8 9	18 50.98	-21 25.6	1.853	2.747	12.1	20.5	8 9	18 54.97	-21 29.6	2.212	3.106	10.5	20.9
96983	1999 TH ₂₁₀		7 9.9 314°03	4°8/ 9.2 18			105756	2000 SV ₉₉		7 9.9 323°17	1°2/ 9.6 18		
5 31	19 46.99	-33 2.8	1.539	2.374	17.3	18.9	5 31	19 43.24	-24 52.3	1.969	2.792	14.5	19.7
6 10	19 44.09	-33 14.1	1.436	2.344	14.2	18.6	6 10	19 39.79	-25 0.3	1.879	2.784	11.6	19.5
6 20	19 37.76	-33 21.4	1.351	2.314	10.5	18.3	6 20	19 33.94	-25 10.6	1.810	2.776	8.1	19.3
6 30	19 28.47	-33 19.0	1.288	2.285	6.7	18.1	6 30	19 26.18	-25 20.6	1.765	2.769	4.2	19.0
7 10	19 17.30	-33 1.4	1.249	2.256	4.8	17.9	7 10	19 17.35	-25 27.7	1.746	2.762	1.2	18.8
7 20	19 5.76	-32 25.7	1.235	2.228	7.5	17.9	7 20	19 8.44	-25 29.8	1.754	2.755	4.5	19.0
7 30	18 55.54	-31 32.5	1.244	2.200	11.9	18.1	7 30	19 0.53	-25 26.2	1.788	2.749	8.5	19.2
8 9	18 48.07	-30 26.5	1.275	2.173	16.2	18.3	8 9	18 54.49	-25 17.2	1.845	2.743	12.0	19.4
387926	2005 CQ ₂		7 9.9 252°15	2°4/10.9 18			46656	1995 WT ₆		7 9.9 187°62	1°4/ 9.6 18		
5 31	19 44.25	-12 51.3	2										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
448524	2010 <i>OO</i> ₇₃		7 9.9 220°29	6°8/ 6.6	18		257888	2000 <i>SY</i> ₂₉₀		7 9.9 253°22	0°9/ 9.7	17	
5 31	19 48.33	-42 11.2	2.638	3.427	12.2	21.3	5 31	19 49.18	-23 37.2	1.697	2.517	16.6	21.8
6 10	19 43.69	-43 18.8	2.556	3.422	10.3	21.2	6 10	19 45.12	-23 45.3	1.598	2.500	13.4	21.6
6 20	19 36.60	-44 20.9	2.496	3.418	8.4	21.0	6 20	19 38.07	-23 57.4	1.518	2.483	9.4	21.3
6 30	19 27.54	-45 11.6	2.461	3.413	7.1	20.9	6 30	19 28.50	-24 10.6	1.462	2.465	4.9	21.0
7 10	19 17.34	-45 46.2	2.452	3.408	6.8	20.9	7 10	19 17.36	-24 21.4	1.431	2.447	0.9	20.7
7 20	19 7.01	-46 1.8	2.469	3.403	7.9	21.0	7 20	19 5.92	-24 26.9	1.426	2.428	5.3	20.9
7 30	18 57.66	-45 58.1	2.511	3.398	9.7	21.1	7 30	18 55.58	-24 26.0	1.447	2.409	10.0	21.2
8 9	18 50.18	-45 37.6	2.576	3.392	11.7	21.2	8 9	18 47.54	-24 19.0	1.492	2.389	14.4	21.4
41520	2000 <i>QG</i> ₂₀₇		7 9.9 226°60	6°8/ 12.4	18		321217	2008 <i>YK</i> ₁₁₄		7 9.9 225°52	0°6/ 9.7	17	
5 31	19 43.42	-2 46.6	2.179	2.933	15.4	20.1	5 31	19 44.82	-22 29.4	2.076	2.889	14.2	21.2
6 10	19 39.52	-2 17.4	2.081	2.924	13.2	19.9	6 10	19 40.87	-22 45.6	1.986	2.885	11.3	21.0
6 20	19 33.55	-2 2.7	2.003	2.915	10.7	19.7	6 20	19 34.61	-23 6.1	1.917	2.881	7.9	20.8
6 30	19 25.94	-2 4.6	1.948	2.905	8.3	19.5	6 30	19 26.51	-23 28.7	1.873	2.877	4.0	20.5
7 10	19 17.36	-2 24.1	1.917	2.894	6.8	19.4	7 10	19 17.38	-23 50.3	1.856	2.873	0.6	20.2
7 20	19 8.61	-3 0.4	1.913	2.883	7.4	19.4	7 20	19 8.17	-24 8.5	1.866	2.868	4.2	20.5
7 30	19 0.58	-3 50.9	1.935	2.872	9.5	19.6	7 30	18 59.88	-24 21.9	1.904	2.864	8.1	20.8
8 9	18 54.05	-4 51.8	1.981	2.860	12.2	19.7	8 9	18 53.37	-24 30.1	1.965	2.859	11.6	21.0
9923	Ronaldthiel		7 9.9 194°78	2°2/ 9.2	18		48406	1981 <i>EQ</i> ₄₇		7 9.9 254°74	0°4/ 10.0	18	R
5 31	19 45.98	-27 19.7	2.196	3.009	13.6	19.0	5 31	19 46.14	-20 2.8	1.803	2.619	15.9	19.4
6 10	19 41.70	-27 45.1	2.110	3.008	10.8	18.8	6 10	19 42.41	-20 13.9	1.705	2.605	12.8	19.2
6 20	19 35.12	-28 11.8	2.044	3.006	7.6	18.6	6 20	19 35.99	-20 32.0	1.628	2.592	9.0	18.9
6 30	19 26.73	-28 36.3	2.004	3.005	4.2	18.4	6 30	19 27.37	-20 55.2	1.574	2.577	4.7	18.6
7 10	19 17.36	-28 55.2	1.991	3.003	2.3	18.2	7 10	19 17.38	-21 20.4	1.546	2.562	0.4	18.3
7 20	19 7.94	-29 6.2	2.006	3.001	4.7	18.4	7 20	19 7.14	-21 44.8	1.545	2.547	4.7	18.6
7 30	18 59.48	-29 8.4	2.047	2.999	8.2	18.6	7 30	18 57.88	-22 6.1	1.569	2.532	9.3	18.8
8 9	18 52.81	-29 2.6	2.113	2.997	11.3	18.8	8 9	18 50.64	-22 23.2	1.617	2.517	13.3	19.0
400935	2010 <i>UE</i> ₁₀₇		7 9.9 271°74	2°1/ 11.0	18		86263	1999 <i>TP</i> ₂₄₄		7 9.9 244°66	16°0/ 10.2	18	
5 31	19 41.57	-12 51.0	2.548	3.334	12.6	21.2	5 31	19 48.81	+ 2 29.8	1.279	2.048	23.6	19.1
6 10	19 37.90	-13 12.8	2.435	3.314	10.3	21.0	6 10	19 45.28	+ 5 9.2	1.204	2.040	21.2	18.9
6 20	19 32.38	-13 44.8	2.344	3.293	7.5	20.8	6 20	19 38.43	+ 7 32.9	1.145	2.032	18.7	18.7
6 30	19 25.34	-14 26.2	2.278	3.272	4.5	20.6	6 30	19 28.77	+ 9 29.7	1.105	2.023	16.8	18.5
7 10	19 17.37	-15 15.3	2.239	3.251	2.2	20.4	7 10	19 17.38	+10 49.4	1.084	2.014	16.0	18.5
7 20	19 9.15	-16 9.6	2.230	3.229	3.9	20.4	7 20	19 5.67	+11 26.2	1.083	2.004	16.7	18.5
7 30	19 1.48	-17 6.1	2.248	3.208	7.1	20.6	7 30	18 55.25	+11 19.8	1.101	1.995	18.7	18.6
8 9	18 55.08	-18 2.2	2.293	3.186	10.2	20.8	8 9	18 47.46	+10 36.7	1.136	1.985	21.3	18.7
470651	2008 <i>SD</i> ₁₂₈		7 9.9 268°69	0°4/ 10.0	18		102314	1999 <i>TB</i> ₉₉		7 9.9 337°17	9°9/ 13.4	18	
5 31	19 45.09	-20 59.9	1.885	2.701	15.3	21.7	5 31	19 39.42	- 1 31.3	1.323	2.123	21.4	19.2
6 10	19 41.36	-20 58.7	1.790	2.691	12.3	21.4	6 10	19 37.64	- 0 47.2	1.245	2.116	18.5	19.0
6 20	19 35.11	-21 2.3	1.716	2.680	8.6	21.2	6 20	19 32.96	- 0 25.9	1.183	2.108	15.3	18.7
6 30	19 26.83	-21 9.0	1.666	2.669	4.5	20.9	6 30	19 25.89	- 0 32.7	1.139	2.102	12.1	18.5
7 10	19 17.36	-21 16.7	1.642	2.658	0.4	20.6	7 10	19 17.40	- 1 9.8	1.115	2.096	10.0	18.4
7 20	19 7.75	-21 23.4	1.645	2.647	4.5	20.9	7 20	19 8.69	- 2 15.8	1.114	2.091	10.5	18.4
7 30	18 59.13	-21 27.9	1.673	2.636	8.8	21.1	7 30	19 1.14	- 3 44.8	1.134	2.086	13.1	18.5
8 9	18 52.43	-21 29.8	1.726	2.625	12.6	21.3	8 9	18 55.90	- 5 28.3	1.175	2.083	16.6	18.7
175309	2005 <i>MK</i> ₇		7 9.9 140°56	0°4/ 10.0	17		376544	2013 <i>EQ</i> ₈₄		7 9.9 343°53	2°3/ 10.8	18	
5 31	19 48.24	-19 51.0	1.793	2.605	16.2	21.1	5 31	19 39.43	-14 33.6	1.939	2.753	15.1	20.5
6 10	19 43.77	-20 5.0	1.716	2.614	12.9	20.9	6 10	19 36.70	-14 41.3	1.851	2.746	12.2	20.3
6 20	19 36.69	-20 25.8	1.660	2.622	9.0	20.7	6 20	19 31.76	-14 59.4	1.782	2.740	8.8	20.0
6 30	19 27.57	-20 51.1	1.627	2.630	4.6	20.5	6 30	19 25.09	-15 27.1	1.737	2.735	5.1	19.8
7 10	19 17.37	-21 17.7	1.621	2.637	0.4	20.5	7 10	19 17.40	-16 2.6	1.717	2.730	2.3	19.6
7 20	19 7.18	-21 42.7	1.641	2.644	4.6	20.5	7 20	19 9.61	-16 43.1	1.723	2.725	4.5	19.8
7 30	18 58.18	-22 4.1	1.688	2.650	8.8	20.8	7 30	19 2.66	-17 25.7	1.756	2.721	8.2	20.0
8 9	18 51.27	-22 21.2	1.760	2.656	12.6	21.0	8 9	18 57.40	-18 7.7	1.813	2.718	11.8	20.2
73189	2002 <i>JV</i>		7 9.9 342°81	11°4/ 13.2	16		129303	2005 <i>SA</i> ₁₆₄		7 9.9 210°42	2°9/ 11.2	18	
5 31	19 36.78	+ 0 42.3	1.439	2.227	20.5	18.9	5 31	19 41.35	-11 30.8	2.778	3.556	11.9	20.6
6 10	19 35.29	+ 1 56.8	1.359	2.215	18.1	18.7	6 10	19 37.39	-11 25.7	2.680	3.550	9.7	20.4
6 20	19 31.18	+ 2 51.0	1.295	2.205	15.4	18.5	6 20	19 31.80	-11 28.5	2.603	3.545	7.2	20.3
6 30	19 24.92	+ 3 18.7	1.250	2.195	13.0	18.4	6 30	19 24.96	-11 39.5	2.552	3.539	4.6	20.1
7 10	19 17.38	+ 3 15.7	1.224	2.186	11.5	18.2	7 10	19 17.42	-11 57.8	2.528	3.533	2.9	20.0
7 20	19 9.66	+ 2 41.3	1.220	2.179	11.9	18.2	7 20	19 9.79	-12 22.2	2.533	3.527	4.1	20.0
7 30	19 2.96	+ 1 38.7	1.237	2.172	13.8	18.3	7 30	19 2.75	-12 51.2	2.566	3.520	6.6	20.2
8 9	18 58.33	+ 0 15.1	1.274	2.167	16.6	18.5	8 9	18 56.90	-13 22.7	2.625	3.513	9.2	20.3
470679	2008 <i>SE</i> ₂₆₇		7 9.9 327°41	4°9/ 8.3	18		192363	1995 <i>WR</i> ₉		7 9.9 7°15	4°3/ 8.7	17	
5 31	19 38.65	-28 5.9	1.281	2.142	18.6	20.5	5 31	19 44.90	-29 48.7	1.558	2.396	17.0	19.7
6 10	19 37.97	-29 2.9	1.187	2.112	15.1	20.2	6 10	19 41.91	-30 34.2	1.485	2.396	13.6	19.4
6 20	19 33.86	-30 6.9	1.110	2.084	11.0	19.9	6 20	19 35.85	-31 20.8	1.431	2.397	9.8	19.2
6 30	19 26.67	-31 11.9	1.055	2.056	6.7	19.6	6 30	19 27.31	-32 2.6	1.400	2.398	6.0	19.0
7 10	19 17.36	-32 9.6	1.021	2.030	5.0	19.4	7 10	19 17.40	-32 33.6	1.393	2.400	4.4	18.9
7 20	19 7.46	-32 52.4	1.010	2.005	8.3	19.5	7 20	19 7.47	-32 50.1	1.411	2.402	6.9	19.1
7 30	18 58.79	-33 16.0	1.020	1.981	13.3	19.7	7 30	18 58.94	-32 50.9	1.453	2.405	10.8	19.3
8 9	18 53.00	-33 20.3	1.049	1.959	18.0	19.9	8 9	18 52.92	-32 38.1	1.517	2.409	14.5	19.5
486958	2014 <i>MU</i> ₆₉		7										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
313269	2001 YF		7 9.9 316°15	1.4/10.2	18		127099	2002 GN ₈₄		7 9.9 70°28	6.3/6.9	18	
5 31	19 42.94	-19 19.9	1.728	2.552	16.2	19.8	5 31	19 46.86	-37 46.4	2.289	3.095	13.3	19.9
6 10	19 40.36	-19 7.4	1.601	2.505	13.2	19.5	6 10	19 42.67	-39 2.9	2.219	3.103	10.9	19.8
6 20	19 34.98	-19 0.5	1.494	2.458	9.6	19.2	6 20	19 35.95	-40 15.7	2.172	3.112	8.6	19.6
6 30	19 27.09	-18 58.6	1.409	2.411	5.2	18.8	6 30	19 27.25	-41 18.6	2.150	3.120	6.7	19.5
7 10	19 17.41	-19 0.2	1.349	2.364	1.4	18.4	7 10	19 17.43	-42 6.2	2.154	3.129	6.3	19.5
7 20	19 7.02	-19 3.7	1.314	2.317	5.3	18.6	7 20	19 7.57	-42 35.1	2.184	3.138	7.7	19.6
7 30	18 57.28	-19 7.6	1.304	2.270	10.4	18.7	7 30	18 58.77	-42 44.9	2.239	3.146	9.8	19.8
8 9	18 49.50	-19 11.3	1.316	2.224	15.2	18.9	8 9	18 51.96	-42 37.8	2.317	3.155	12.1	19.9
225846	2001 XS ₁₃₅		7 9.9 38°05	3.8/8.3	18		413143	2002 CH ₈₉		7 9.9 51°57	3.9/9.4	17	
5 31	19 44.96	-24 40.6	1.424	2.265	18.2	19.1	5 31	19 51.42	-30 2.4	1.179	2.026	20.8	20.3
6 10	19 42.12	-26 12.2	1.360	2.275	14.4	18.9	6 10	19 47.53	-30 16.9	1.130	2.046	16.5	20.1
6 20	19 36.10	-27 52.7	1.316	2.286	10.1	18.6	6 20	19 39.82	-30 29.4	1.097	2.066	11.7	19.9
6 30	19 27.49	-29 34.1	1.295	2.297	5.7	18.4	6 30	19 29.25	-30 34.0	1.086	2.087	6.7	19.7
7 10	19 17.41	-31 7.4	1.299	2.309	3.9	18.3	7 10	19 17.43	-30 25.8	1.097	2.108	3.9	19.6
7 20	19 7.28	-32 25.0	1.329	2.322	7.1	18.6	7 20	19 6.13	-30 3.1	1.131	2.129	7.1	19.8
7 30	18 58.59	-33 22.9	1.382	2.335	11.3	18.8	7 30	18 57.01	-29 28.3	1.189	2.151	11.7	20.2
8 9	18 52.51	-34 1.2	1.457	2.348	15.1	19.1	8 9	18 51.12	-28 45.5	1.268	2.173	15.8	20.5
495327	2014 KU ₂₄		7 9.9 341°46	0°0/9.9	18		439652	2014 HA ₃₀		7 9.9 17°57	5.3/11.8	16	
5 31	19 39.71	-20 20.7	1.816	2.645	15.3	21.1	5 31	19 40.95	-7 49.4	2.065	2.850	15.2	21.1
6 10	19 37.21	-20 41.5	1.727	2.635	12.2	20.8	6 10	19 37.60	-7 20.7	1.981	2.851	12.7	20.9
6 20	19 32.29	-21 9.6	1.659	2.626	8.5	20.6	6 20	19 32.22	-7 3.9	1.918	2.852	9.8	20.7
6 30	19 25.43	-21 42.9	1.614	2.618	4.4	20.3	6 30	19 25.26	-7 0.4	1.877	2.854	7.0	20.6
7 10	19 17.43	-22 18.2	1.594	2.610	0.0	19.9	7 10	19 17.45	-7 10.6	1.862	2.856	5.3	20.5
7 20	19 9.28	-22 52.2	1.600	2.604	4.5	20.3	7 20	19 9.61	-7 33.3	1.872	2.858	6.2	20.5
7 30	19 2.08	-23 22.3	1.632	2.598	8.7	20.5	7 30	19 2.59	-8 6.3	1.909	2.860	8.7	20.7
8 9	18 56.75	-23 47.1	1.687	2.592	12.5	20.7	8 9	18 57.14	-8 46.4	1.969	2.862	11.6	20.9
299833	2006 SE ₁₉₁		7 9.9 271°03	4°3/8.4	18		511910	2015 HV ₇₉		7 9.9 180°07	2°1/9.2	18	
5 31	19 46.25	-32 30.3	2.125	2.940	13.9	21.6	5 31	19 48.13	-26 39.0	2.221	3.028	13.6	22.6
6 10	19 42.25	-33 10.7	2.035	2.931	11.2	21.4	6 10	19 43.37	-27 7.2	2.134	3.029	10.8	22.4
6 20	19 35.72	-33 49.9	1.967	2.923	8.2	21.2	6 20	19 36.28	-27 37.2	2.069	3.030	7.6	22.2
6 30	19 27.15	-34 23.2	1.923	2.914	5.4	21.0	6 30	19 27.37	-28 5.4	2.030	3.030	4.1	22.0
7 10	19 17.42	-34 45.9	1.905	2.906	4.4	20.9	7 10	19 17.45	-28 28.5	2.017	3.030	2.1	21.9
7 20	19 7.57	-34 55.2	1.914	2.897	6.2	21.0	7 20	19 7.48	-28 43.7	2.033	3.029	4.7	22.1
7 30	18 58.74	-34 50.3	1.949	2.889	9.3	21.2	7 30	18 58.48	-28 50.1	2.077	3.028	8.1	22.3
8 9	18 51.88	-34 32.9	2.008	2.880	12.3	21.3	8 9	18 51.28	-28 48.4	2.145	3.026	11.3	22.5
175149	2005 EV ₃₂		7 9.9 85°66	1°9/10.5	17		24609	Evgenij		7 9.9 280°55	3°7/8.9	18	
5 31	19 47.95	-17 10.3	1.493	2.314	18.4	20.9	5 31	19 49.00	-28 45.2	1.609	2.437	17.0	19.2
6 10	19 43.87	-17 6.1	1.428	2.329	14.7	20.7	6 10	19 45.54	-29 17.9	1.505	2.411	13.8	18.9
6 20	19 36.89	-17 11.3	1.383	2.345	10.4	20.5	6 20	19 38.77	-29 53.2	1.419	2.384	10.0	18.6
6 30	19 27.71	-17 24.6	1.359	2.360	5.7	20.3	6 30	19 29.08	-30 26.0	1.356	2.356	5.9	18.3
7 10	19 17.42	-17 43.4	1.361	2.376	1.9	20.1	7 10	19 17.46	-30 50.0	1.318	2.328	3.7	18.1
7 20	19 7.30	-18 4.9	1.388	2.391	5.2	20.3	7 20	19 5.30	-31 0.6	1.306	2.300	6.9	18.2
7 30	18 58.61	-18 26.9	1.441	2.406	9.7	20.6	7 30	18 54.26	-30 55.9	1.318	2.272	11.5	18.4
8 9	18 52.32	-18 47.7	1.515	2.421	13.7	20.9	8 9	18 45.78	-30 37.5	1.351	2.243	15.9	18.6
437130	2012 UU ₁₅₃		7 9.9 330°88	2°8/8.9	18		379208	2009 SL ₁₂₂		7 9.9 318°93	3°2/10.7	17	
5 31	19 41.75	-25 44.9	1.538	2.380	17.0	20.3	5 31	19 43.04	-15 24.5	1.491	2.318	18.2	21.5
6 10	19 39.52	-26 28.0	1.452	2.367	13.6	20.1	6 10	19 40.31	-15 3.7	1.406	2.309	14.8	21.3
6 20	19 34.32	-27 16.7	1.385	2.355	9.6	19.8	6 20	19 34.71	-14 52.7	1.340	2.301	10.8	21.0
6 30	19 26.63	-28 6.4	1.341	2.344	5.3	19.5	6 30	19 26.78	-14 51.9	1.295	2.293	6.4	20.8
7 10	19 17.42	-28 51.4	1.321	2.333	2.9	19.3	7 10	19 17.48	-15 0.3	1.274	2.286	3.2	20.5
7 20	19 7.98	-29 26.6	1.325	2.323	6.2	19.5	7 20	19 8.02	-15 16.1	1.277	2.279	5.8	20.7
7 30	18 59.72	-29 49.3	1.354	2.314	10.7	19.8	7 30	18 59.73	-15 37.2	1.305	2.272	10.3	20.9
8 9	18 53.84	-29 59.6	1.404	2.306	14.8	20.0	8 9	18 53.70	-16 1.1	1.354	2.266	14.6	21.2
241239	2007 TJ ₁₉₄		7 9.9 333°89	4°5/8.3	18		398076	2009 JF ₆		7 9.9 120°53	3°1/8.4	18	
5 31	19 45.50	-30 46.2	1.871	2.696	15.1	20.3	5 31	19 45.31	-27 31.6	2.274	3.085	13.2	21.3
6 10	19 41.97	-31 43.0	1.791	2.693	12.1	20.0	6 10	19 41.20	-28 38.8	2.194	3.091	10.5	21.1
6 20	19 35.69	-32 40.7	1.731	2.691	8.8	19.8	6 20	19 34.83	-29 49.1	2.136	3.096	7.4	20.9
6 30	19 27.19	-33 33.7	1.695	2.689	5.7	19.6	6 30	19 26.67	-30 57.8	2.104	3.102	4.4	20.8
7 10	19 17.42	-34 16.4	1.685	2.687	4.5	19.6	7 10	19 17.49	-31 59.9	2.100	3.107	3.2	20.7
7 20	19 7.54	-34 44.6	1.700	2.685	6.7	19.7	7 20	19 8.19	-32 51.3	2.124	3.112	5.3	20.8
7 30	18 58.79	-34 56.9	1.742	2.684	10.0	19.9	7 30	18 59.78	-33 29.9	2.176	3.117	8.4	21.0
8 9	18 52.21	-34 54.8	1.805	2.683	13.3	20.1	8 9	18 53.08	-33 55.7	2.251	3.122	11.2	21.2
72709	2001 FP ₈₂		7 9.9 251°65	0°7/10.2	18		88072	2000 WB		7 9.9 211°28	0°4/9.8	18	
5 31	19 43.58	-18 21.0	1.923	2.737	15.1	19.8	5 31	19 43.13	-22 10.6	2.646	3.448	11.8	20.3
6 10	19 40.01	-18 39.8	1.838	2.737	12.1	19.6	6 10	19 39.01	-22 27.4	2.551	3.443	9.4	20.1
6 20	19 34.09	-19 6.7	1.774	2.736	8.5	19.4	6 20	19 33.05	-22 47.9	2.478	3.439	6.5	19.9
6 30	19 26.29	-19 39.9	1.733	2.735	4.5	19.2	6 30	19 25.67	-23 9.9	2.431	3.434	3.3	19.7
7 10	19 17.43	-20 16.3	1.718	2.735	0.7	18.9	7 10	19 17.50	-23 31.5	2.412	3.428	0.4	19.5
7 20	19 8.49	-20 52.9	1.731	2.734	4.3	19.2	7 20	19 9.25	-23 50.6	2.422	3.423	3.5	19.7
7 30	19 0.49	-21 27.2	1.770	2.733	8.3	19.4	7 30	19 1.68	-24 6.0	2.459	3.417	6.7	19.9
8 9	18 54.33	-21 57.4	1.833	2.733	12.0	19.6	8 9	18 55.48	-24 17.2	2.523	3.411	9.6	20.1
475651	2006 UN ₂₈₅		7 9.9 288°65	1°1/9.6	18		478056	2011 TB ₈		7 9.9 300°18	0°2/10.0	18	
5 31	19 43.51	-24 0.5	2.084	2.901	14.0	21.8	5						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
354710	2005 <i>RP</i> ₄₇		7 9.9 152°23	3°9/11.6	18		330861	2009 <i>QM</i> ₃₁		7 9.9 325°66	0°4/10.1	17	
5 31	19 41.25	-9 13.1	2.407	3.186	13.5	21.2	5 31	19 38.76	-20 17.1	1.214	2.071	19.6	20.4
6 10	19 37.55	-9 5.5	2.319	3.188	11.1	21.0	6 10	19 37.89	-20 21.7	1.123	2.047	15.9	20.1
6 20	19 32.04	-9 8.6	2.253	3.190	8.4	20.9	6 20	19 33.70	-20 35.6	1.050	2.024	11.3	19.7
6 30	19 25.15	-9 22.6	2.210	3.192	5.7	20.7	6 30	19 26.58	-20 57.5	0.996	2.002	6.0	19.4
7 10	19 17.51	-9 46.9	2.194	3.194	3.9	20.6	7 10	19 17.55	-21 23.8	0.964	1.981	0.4	18.9
7 20	19 9.82	-10 19.9	2.205	3.196	4.9	20.7	7 20	19 8.06	-21 50.7	0.955	1.961	6.0	19.2
7 30	19 2.84	-10 59.3	2.244	3.197	7.4	20.8	7 30	18 59.82	-22 14.6	0.967	1.942	11.9	19.5
8 9	18 57.22	-11 42.5	2.307	3.199	10.2	21.0	8 9	18 54.31	-22 33.6	0.999	1.924	17.2	19.7
301032	2008 <i>SC</i> ₂₅₈		7 9.9 299°03	2°4/ 9.3	17		471266	2011 <i>EV</i> ₃₈		7 9.9 47°56	0°2/ 9.9	16	
5 31	19 44.94	-24 40.4	1.227	2.079	19.8	20.7	5 31	19 44.80	-20 46.8	1.507	2.339	17.7	21.4
6 10	19 42.99	-25 10.2	1.139	2.060	16.0	20.4	6 10	19 41.51	-21 8.0	1.443	2.352	14.1	21.2
6 20	19 37.36	-25 47.4	1.069	2.042	11.4	20.1	6 20	19 35.36	-21 36.7	1.398	2.366	9.7	20.9
6 30	19 28.49	-26 27.5	1.019	2.024	6.1	19.7	6 30	19 27.02	-22 9.8	1.376	2.380	5.0	20.7
7 10	19 17.49	-27 3.9	0.991	2.006	2.4	19.5	7 10	19 17.56	-22 43.2	1.378	2.395	0.2	20.4
7 20	19 6.01	-27 30.9	0.986	1.988	7.0	19.7	7 20	19 8.21	-23 13.3	1.406	2.410	5.0	20.8
7 30	18 55.96	-27 45.2	1.004	1.971	12.6	19.9	7 30	19 0.25	-23 37.8	1.459	2.425	9.5	21.1
8 9	18 48.94	-27 47.2	1.041	1.954	17.8	20.2	8 9	18 54.61	-23 55.9	1.534	2.441	13.5	21.3
321127	2008 <i>UJ</i> ₇₈		7 9.9 129°99	3°5/11.2	18		263280	2008 <i>BA</i> ₃₄		7 9.9 175°07	2°9/10.9	17	
5 31	19 43.56	-12 2.7	1.931	2.729	15.7	20.5	5 31	19 46.84	-13 33.3	1.883	2.680	16.0	21.4
6 10	19 39.87	-11 54.1	1.848	2.732	12.8	20.3	6 10	19 42.58	-13 33.0	1.798	2.682	13.0	21.2
6 20	19 33.91	-11 56.5	1.785	2.734	9.4	20.1	6 20	19 35.89	-13 43.2	1.732	2.684	9.5	21.0
6 30	19 26.20	-12 9.9	1.746	2.737	5.9	19.9	6 30	19 27.28	-14 3.7	1.691	2.686	5.6	20.7
7 10	19 17.52	-12 33.4	1.732	2.740	3.6	19.7	7 10	19 17.59	-14 32.6	1.675	2.686	2.9	20.6
7 20	19 8.80	-13 4.7	1.746	2.743	5.2	19.8	7 20	19 7.81	-15 7.4	1.687	2.686	4.9	20.7
7 30	19 1.02	-13 41.4	1.785	2.745	8.5	20.0	7 30	18 59.03	-15 45.3	1.725	2.686	8.7	20.9
8 9	18 54.99	-14 20.5	1.848	2.747	11.9	20.3	8 9	18 52.13	-16 23.8	1.788	2.685	12.4	21.1
435757	2008 <i>UY</i> ₁₉₃		7 9.9 325°00	1°5/ 9.4	18		324912	2007 <i>VZ</i> ₂₄₄		7 9.9 202°75	1°4/10.3	17	
5 31	19 38.94	-21 59.1	1.361	2.213	18.2	20.1	5 31	19 49.08	-18 32.9	1.878	2.683	15.8	22.1
6 10	19 37.78	-22 39.0	1.266	2.187	14.7	19.8	6 10	19 44.48	-18 25.9	1.787	2.679	12.7	21.9
6 20	19 33.48	-23 30.0	1.188	2.162	10.4	19.5	6 20	19 37.29	-18 25.1	1.716	2.674	9.0	21.6
6 30	19 26.42	-24 28.7	1.132	2.138	5.4	19.2	6 30	19 28.03	-18 29.4	1.668	2.669	4.9	21.4
7 10	19 17.52	-25 29.4	1.098	2.114	1.6	18.8	7 10	19 17.59	-18 36.9	1.648	2.663	1.4	21.1
7 20	19 8.09	-26 25.9	1.089	2.092	6.2	19.1	7 20	19 7.02	-18 45.7	1.655	2.657	4.6	21.3
7 30	18 59.75	-27 12.9	1.102	2.070	11.6	19.3	7 30	18 57.50	-18 54.7	1.688	2.649	8.9	21.6
8 9	18 53.94	-27 48.1	1.135	2.050	16.5	19.5	8 9	18 49.98	-19 2.9	1.746	2.642	12.7	21.8
385769	2005 <i>YV</i> ₁₄₄		7 9.9 269°20	1°9/ 9.7	17		289156	2004 <i>VH</i> ₂₅		7 9.9 180°71	5°6/ 7.7	18	
5 31	19 49.86	-27 52.4	1.864	2.679	15.5	21.6	5 31	19 51.42	-37 30.2	2.473	3.266	12.8	22.2
6 10	19 45.39	-27 45.4	1.763	2.663	12.5	21.4	6 10	19 46.10	-38 28.3	2.390	3.267	10.5	22.0
6 20	19 38.09	-27 37.2	1.682	2.645	8.8	21.1	6 20	19 38.28	-39 22.7	2.330	3.268	8.1	21.9
6 30	19 28.49	-27 24.5	1.626	2.628	4.8	20.9	6 30	19 28.49	-40 7.7	2.295	3.268	6.2	21.8
7 10	19 17.52	-27 4.5	1.596	2.610	1.9	20.6	7 10	19 17.58	-40 38.5	2.287	3.267	5.6	21.7
7 20	19 6.40	-26 35.9	1.592	2.592	5.2	20.8	7 20	19 6.61	-40 52.3	2.306	3.266	7.0	21.8
7 30	18 56.41	-25 59.5	1.616	2.574	9.4	21.0	7 30	18 56.65	-40 48.8	2.352	3.264	9.2	21.9
8 9	18 48.62	-25 17.6	1.663	2.555	13.4	21.2	8 9	18 48.64	-40 30.3	2.422	3.262	11.6	22.1
475859	2007 <i>BB</i> ₇₇		7 9.9 180°49	2°6/ 9.3	18		509667	2008 <i>HY</i> ₅₅		7 9.9 338°41	1°6/10.7	18	
5 31	19 46.93	-30 39.4	2.388	3.195	12.8	21.3	5 31	19 41.09	-15 4.6	2.335	3.134	13.2	21.3
6 10	19 42.24	-30 43.6	2.302	3.195	10.2	21.1	6 10	19 37.61	-15 26.4	2.245	3.133	10.6	21.1
6 20	19 35.38	-30 45.4	2.237	3.195	7.3	20.9	6 20	19 32.22	-15 57.2	2.176	3.132	7.6	20.9
6 30	19 26.88	-30 42.0	2.198	3.195	4.3	20.7	6 30	19 25.33	-16 35.7	2.133	3.131	4.3	20.7
7 10	19 17.54	-30 30.9	2.186	3.195	2.6	20.6	7 10	19 17.60	-17 19.7	2.117	3.131	1.6	20.5
7 20	19 8.26	-30 11.1	2.202	3.195	4.6	20.7	7 20	19 9.78	-18 6.6	2.128	3.130	3.8	20.7
7 30	18 59.96	-29 43.2	2.245	3.195	7.7	20.9	7 30	19 2.68	-18 53.5	2.167	3.129	7.1	20.9
8 9	18 53.38	-29 8.8	2.314	3.195	10.6	21.1	8 9	18 57.01	-19 38.2	2.232	3.129	10.2	21.1
251953	1999 <i>XX</i> ₉₄		7 9.9 214°35	0°8/ 9.5	18		17620	1995 <i>WY</i>		7 9.9 174°94	2°9/ 8.7	18	
5 31	19 43.06	-21 18.1	2.887	3.683	11.1	20.7	5 31	19 44.58	-28 24.4	2.388	3.199	12.7	18.1
6 10	19 38.88	-22 8.4	2.788	3.677	8.8	20.5	6 10	19 40.53	-29 11.9	2.303	3.200	10.1	17.9
6 20	19 32.96	-23 4.3	2.712	3.671	6.1	20.4	6 20	19 34.33	-30 1.1	2.241	3.200	7.2	17.7
6 30	19 25.66	-24 3.2	2.663	3.665	3.1	20.2	6 30	19 26.44	-30 47.8	2.203	3.201	4.2	17.5
7 10	19 17.55	-25 1.8	2.643	3.659	0.8	20.0	7 10	19 17.60	-31 28.3	2.193	3.201	2.9	17.4
7 20	19 9.27	-25 57.3	2.653	3.652	3.4	20.2	7 20	19 8.68	-31 59.4	2.212	3.201	5.0	17.6
7 30	19 1.55	-26 47.1	2.692	3.645	6.4	20.3	7 30	19 0.59	-32 19.8	2.257	3.201	7.9	17.8
8 9	18 55.05	-27 30.0	2.757	3.637	9.1	20.5	8 9	18 54.13	-32 29.6	2.326	3.201	10.8	17.9
315071	2007 <i>DY</i> ₄₂		7 9.9 252°80	3°2/ 9.1	18		26077	1979 <i>ML</i> ₆		7 9.9 320°97	2°6/10.7	18	
5 31	19 48.42	-32 50.4	2.646	3.443	11.9	21.5	5 31	19 41.19	-15 29.5	1.367	2.204	19.0	18.7
6 10	19 43.40	-33 1.7	2.540	3.427	9.6	21.3	6 10	19 39.24	-15 29.8	1.280	2.190	15.5	18.4
6 20	19 36.22	-33 9.9	2.457	3.410	7.0	21.1	6 20	19 34.26	-15 43.0	1.211	2.177	11.2	18.1
6 30	19 27.36	-33 11.8	2.400	3.392	4.5	20.9	6 30	19 26.72	-16 8.7	1.163	2.164	6.4	17.8
7 10	19 17.54	-33 4.6	2.370	3.374	3.2	20.8	7 10	19 17.60	-16 44.7	1.138	2.152	2.6	17.5
7 20	19 7.64	-32 46.7	2.369	3.356	4.9	20.9	7 20	19 8.19	-17 27.3	1.137	2.140	5.8	17.7
7 30	18 58.58	-32 18.5	2.396	3.337	7.7	21.1	7 30	18 59.94	-18 12.6	1.159	2.130	10.8	17.9
8 9	18 51.13	-31 41.7	2.448	3.318	10.5	21.2	8 9	18 54.12	-18 56.7	1.202	2.120	15.5	18.2
470688	2008 <i>ST</i> ₂₉₇		7 9.9 248°32	2°1/ 9.5	18		246284	2007 <i>TD</i> ₆₇		7 9.9 21°			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
64769	2001 XO ₁₇₈		7 9.9	7 ³⁷	1.2/10.5	18	354324	2002 VF ₁₄₇		7 9.9	314 ⁵¹	6.4/8.2	18
5 31	19 41.67	-16 20.2	2.093	2.901	14.3	19.6	5 31	19 46.54	-35 54.0	1.729	2.555	16.1	20.2
6 10	19 38.32	-16 44.3	2.007	2.901	11.4	19.4	6 10	19 43.41	-36 38.7	1.638	2.537	13.3	20.0
6 20	19 32.85	-17 17.5	1.942	2.902	8.1	19.2	6 20	19 37.13	-37 20.0	1.566	2.520	10.2	19.7
6 30	19 25.71	-17 58.4	1.902	2.902	4.4	19.0	6 30	19 28.20	-37 51.4	1.517	2.503	7.4	19.5
7 10	19 17.62	-18 44.2	1.887	2.903	1.2	18.8	7 10	19 17.68	-38 6.6	1.493	2.486	6.4	19.4
7 20	19 9.46	-19 31.7	1.901	2.904	4.0	19.0	7 20	19 6.95	-38 1.7	1.493	2.470	8.3	19.5
7 30	19 2.12	-20 17.9	1.941	2.905	7.7	19.2	7 30	18 57.52	-37 36.5	1.517	2.455	11.6	19.7
8 9	18 56.39	-21 0.7	2.006	2.906	11.1	19.4	8 9	18 50.62	-36 54.3	1.563	2.439	15.0	19.8
254134	2004 PK ₄₀		7 9.9	235 ³⁴	8.2/14.6	18	427402	1998 MU ₁₅		7 9.9	52 ⁷⁶	5.6/11.0	17
5 31	19 40.22	+ 8 19.7	2.983	3.659	13.1	21.2	5 31	19 45.51	-11 5.7	1.711	2.511	17.3	20.6
6 10	19 36.47	+ 8 50.7	2.881	3.647	11.8	21.0	6 10	19 41.60	-10 2.2	1.637	2.518	14.3	20.4
6 20	19 31.20	+ 9 6.4	2.799	3.635	10.4	20.9	6 20	19 35.21	- 9 8.1	1.582	2.526	10.8	20.2
6 30	19 24.77	+ 9 4.0	2.738	3.623	9.1	20.8	6 30	19 26.93	- 8 26.0	1.551	2.533	7.5	20.0
7 10	19 17.66	+ 8 42.2	2.700	3.610	8.3	20.7	7 10	19 17.69	- 7 57.3	1.543	2.541	5.7	19.9
7 20	19 10.43	+ 8 1.1	2.688	3.597	8.4	20.7	7 20	19 8.51	- 7 42.6	1.562	2.549	6.9	20.0
7 30	19 3.70	+ 7 2.6	2.701	3.584	9.2	20.7	7 30	19 0.48	- 7 40.9	1.606	2.557	10.0	20.2
8 9	18 58.01	+ 5 50.0	2.738	3.570	10.6	20.8	8 9	18 54.43	- 7 49.8	1.672	2.565	13.3	20.4
365109	2009 CT ₁₂		7 9.9	20 ⁹⁷	6.4/12.5	17	368902	2006 SU ₃₄₂		7 10.0	235 ⁵⁶	3.2/10.7	17
5 31	19 38.77	- 7 28.3	1.029	1.873	23.4	19.9	5 31	19 42.66	-14 35.7	1.638	2.529	13.7	21.6
6 10	19 37.32	- 7 24.5	0.973	1.880	19.4	19.7	6 10	19 36.17	-14 19.4	1.568	2.523	10.0	21.3
6 20	19 33.73	- 7 46.1	0.931	1.889	14.8	19.5	6 20	19 27.54	-14 11.8	1.520	2.516	6.0	21.1
6 30	19 26.21	- 8 34.8	0.908	1.898	10.0	19.2	7 10	19 17.69	-14 12.4	1.498	2.509	3.2	20.9
7 10	19 17.65	- 9 47.7	0.904	1.910	6.6	19.1	7 20	19 7.70	-14 20.0	1.503	2.502	5.5	21.0
7 20	19 9.14	-11 18.1	0.923	1.922	7.9	19.2	7 30	18 58.77	-14 32.9	1.533	2.494	9.5	21.2
7 30	19 2.24	-12 56.9	0.962	1.936	12.1	19.5	8 9	18 51.87	-14 49.5	1.586	2.487	13.4	21.5
8 9	18 58.12	-14 35.1	1.022	1.950	16.6	19.8	8 19	18 47.64	-15 7.9	1.659	2.479	16.8	21.7
133584	2003 UD ₆₃		7 9.9	263 ⁵⁰	7.7/6.5	18	344754	2003 UQ ₃₇₁		7 10.0	345 ⁷⁵	4.0/10.2	17
5 31	19 49.60	-38 57.6	1.995	2.804	14.9	20.0	5 31	19 38.47	-17 37.1	1.139	2.058	16.2	19.5
6 10	19 45.64	-40 22.8	1.910	2.793	12.4	19.8	6 10	19 33.84	-16 25.9	1.074	2.043	11.8	19.2
6 20	19 38.60	-41 45.2	1.845	2.782	10.0	19.6	6 30	19 26.54	-15 18.7	1.029	2.030	7.0	18.9
6 30	19 28.94	-42 56.9	1.804	2.771	8.1	19.5	7 10	19 17.69	-14 18.0	1.006	2.018	4.0	18.7
7 10	19 17.65	-43 50.3	1.789	2.760	7.8	19.4	7 20	19 8.69	-13 26.4	1.006	2.008	7.0	18.8
7 20	19 6.05	-44 20.6	1.799	2.748	9.3	19.5	7 30	19 1.09	-12 45.9	1.028	1.999	11.9	19.1
7 30	18 55.61	-44 26.5	1.833	2.737	11.8	19.6	8 9	18 56.10	-12 16.6	1.070	1.992	16.6	19.3
8 9	18 47.58	-44 11.1	1.888	2.725	14.5	19.8	8 19	18 54.41	-11 57.3	1.129	1.987	20.6	19.6
431013	2005 YM ₁₀₅		7 9.9	115 ⁹⁹	0.5/9.7	17	177890	2005 QP ₁₄₆		7 10.0	223 ¹⁸	0.2/10.1	18
5 31	19 46.24	-19 30.1	1.893	2.705	15.4	21.1	5 31	19 39.18	-19 37.7	2.177	3.072	10.7	20.1
6 10	19 42.21	-20 23.6	1.816	2.714	12.3	20.9	6 10	19 33.42	-20 15.4	2.108	3.070	7.4	19.9
6 20	19 35.71	-21 26.3	1.759	2.722	8.5	20.7	6 30	19 26.02	-20 58.1	2.065	3.067	3.8	19.7
6 30	19 27.24	-22 34.6	1.727	2.731	4.3	20.5	7 10	19 17.70	-21 42.7	2.049	3.065	0.2	19.3
7 10	19 17.66	-23 43.5	1.722	2.739	0.6	20.2	7 20	19 9.26	-22 26.4	2.060	3.063	3.8	19.7
7 20	19 8.01	-24 48.0	1.745	2.747	4.5	20.5	7 30	19 1.59	-23 6.4	2.100	3.061	7.4	19.9
7 30	18 59.38	-25 44.6	1.795	2.754	8.6	20.8	8 9	18 55.47	-23 41.3	2.164	3.058	10.7	20.1
8 9	18 52.69	-26 31.6	1.869	2.762	12.1	21.0	8 19	18 51.41	-24 10.5	2.250	3.056	13.4	20.3
441430	2008 GT ₁₃₂		7 9.9	37 ⁰⁸	6.6/13.0	18	131647	2001 XP ₉₀		7 10.0	129 ⁸⁶	0.0/10.0	18
5 31	19 39.90	- 1 51.8	2.287	3.042	14.7	21.2	5 31	19 40.19	-21 36.1	2.390	3.282	9.9	20.3
6 10	19 36.59	- 1 26.6	2.204	3.045	12.6	21.1	6 10	19 33.88	-21 45.8	2.331	3.291	6.9	20.1
6 20	19 31.46	- 1 16.2	2.140	3.048	10.2	20.9	6 30	19 26.16	-21 57.1	2.297	3.300	3.5	19.9
6 30	19 24.94	- 1 22.3	2.098	3.051	8.0	20.8	7 10	19 17.70	-22 8.4	2.292	3.309	0.0	19.6
7 10	19 17.67	- 1 45.4	2.081	3.055	6.7	20.7	7 20	19 9.28	-22 18.1	2.315	3.317	3.5	20.0
7 20	19 10.35	- 2 24.2	2.091	3.058	7.0	20.7	7 30	19 1.68	-22 25.1	2.366	3.325	6.8	20.2
7 30	19 3.76	- 3 16.2	2.126	3.062	8.8	20.9	8 9	18 55.57	-22 29.3	2.442	3.333	9.7	20.4
8 9	18 58.54	- 4 17.4	2.185	3.066	11.1	21.0	8 19	18 51.38	-22 30.8	2.541	3.340	12.2	20.6
180884	2005 JG ₁₁₇		7 9.9	337 ⁸⁶	4.7/11.3	17	254240	2004 RF ₁₄₂		7 10.0	322 ⁸⁸	5.1/11.9	18
5 31	19 37.61	-12 35.9	1.178	2.026	20.7	19.7	5 31	19 36.85	- 6 57.7	2.072	2.939	12.3	20.5
6 10	19 36.77	-12 15.8	1.098	2.011	17.1	19.4	6 10	19 31.80	- 6 49.5	2.000	2.933	9.5	20.3
6 20	19 32.75	-12 11.4	1.034	1.998	12.8	19.1	6 30	19 25.20	- 6 55.0	1.950	2.926	6.8	20.1
6 30	19 26.04	-12 24.4	0.989	1.986	8.1	18.8	7 10	19 17.71	- 7 14.0	1.926	2.920	5.2	20.0
7 10	19 17.67	-12 54.3	0.965	1.975	4.8	18.6	7 20	19 10.12	- 7 45.3	1.928	2.914	6.0	20.0
7 20	19 9.02	-13 38.3	0.964	1.966	7.0	18.7	7 30	19 3.26	- 8 26.7	1.956	2.908	8.5	20.2
7 30	19 1.66	-14 31.5	0.984	1.957	11.9	18.9	8 9	18 57.86	- 9 14.8	2.009	2.903	11.4	20.3
8 9	18 56.89	-15 28.4	1.023	1.951	16.7	19.2	8 19	18 54.42	-10 6.2	2.082	2.897	14.0	20.5
195114	2002 CU ₁₃₉		7 9.9	124 ⁶⁷	1.4/10.4	17	14090	1997 MS ₃		7 10.0	321 ⁸⁴	1.7/10.6	18
5 31	19 47.15	-17 59.1	2.051	2.853	14.8	21.3	5 31	19 38.94	-16 27.6	1.666	2.566	13.0	18.6
6 10	19 42.52	-17 54.0	1.975	2.865	11.8	21.1	6 10	19 33.62	-16 46.8	1.596	2.557	9.3	18.4
6 20	19 35.65	-17 55.1	1.920	2.877	8.3	20.9	6 30	19 26.27	-17 15.1	1.548	2.549	5.2	18.1
6 30	19 27.10	-18 1.2	1.889	2.889	4.5	20.7	7 10	19 17.72	-17 50.0	1.525	2.540	1.8	17.9
7 10	19 17.68	-18 10.6	1.885	2.900	1.4	20.5	7 20	19 8.99	-18 28.6	1.529	2.532	4.7	18.0
7 20	19 8.34	-18 21.7	1.910	2.911	4.1	20.7	7 30	19 1.21	-19 7.7	1.558	2.524	9.0	18.3
7 30	19 0.03	-18 33.2	1.961	2.922	7.8	20.9	8 9	18 55.34	-19 44.8	1.610	2.517	12.9	18.5
8 9	18 53.50	-18 44.1	2.037	2.932	11.2	21.2	8 19	18 52.02	-20 18.3	1.682	2.510	16.3	18.7
505542	2013 YN ₁₀₀		7 9.9	201 ²³	2.3/10.8	18	111538	2001 YH ₁₂₂	</				