

EPHEMERIDES

8 23.9

8 24.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
273410	2006 <i>VH</i> ₁₆₈		8 23.9 235°18	2°9/26.4	18		452657	2005 <i>UA</i> ₄₄₉		8 23.9 299°99	4°2/20.2	18	
7 20	22 37.17	- 1 22.5	1.871	2.701	15.0	21.4	7 20	22 36.25	-21 47.4	2.058	2.936	12.0	20.9
7 30	22 32.27	- 1 27.8	1.781	2.691	11.8	21.2	7 30	22 31.43	-22 31.2	1.985	2.926	9.0	20.7
8 9	22 25.28	- 1 49.7	1.712	2.679	8.2	21.0	8 9	22 24.66	-23 15.5	1.935	2.918	6.1	20.5
8 19	22 16.75	- 2 26.5	1.669	2.667	4.5	20.7	8 19	22 16.53	-23 54.7	1.912	2.909	4.3	20.4
8 29	22 7.51	- 3 14.7	1.652	2.655	3.2	20.6	8 29	22 7.89	-24 23.1	1.916	2.900	5.5	20.5
9 8	21 58.61	- 4 8.8	1.662	2.642	6.4	20.8	9 8	21 59.72	-24 36.6	1.946	2.891	8.4	20.6
9 18	21 51.01	- 5 2.8	1.699	2.629	10.3	21.0	9 18	21 52.87	-24 33.6	2.001	2.883	11.5	20.8
9 28	21 45.51	- 5 51.2	1.759	2.615	14.0	21.2	9 28	21 48.05	-24 14.2	2.077	2.875	14.3	21.0
329945	2005 <i>QB</i> ₃₁		8 23.9 342°21	6°3/19.8	18		469667	2004 <i>TT</i> ₃₆₁		8 23.9 329°93	7°0/19.6	18	
7 20	22 30.80	-20 3.5	1.036	1.954	17.7	19.7	7 20	22 38.86	-25 8.9	1.350	2.246	15.9	20.6
7 30	22 28.84	-21 9.4	0.975	1.938	13.4	19.4	7 30	22 34.38	-25 53.7	1.283	2.232	12.3	20.3
8 9	22 23.77	-22 21.7	0.931	1.923	9.0	19.1	8 9	22 26.96	-26 36.0	1.237	2.218	8.8	20.1
8 19	22 16.34	-23 29.4	0.909	1.910	6.3	18.9	8 19	22 17.40	-27 6.7	1.213	2.205	7.0	20.0
8 29	22 7.94	-24 20.2	0.907	1.899	8.4	19.0	8 29	22 7.03	-27 17.2	1.212	2.193	8.5	20.0
9 8	22 0.29	-24 45.0	0.927	1.889	12.9	19.2	9 8	21 57.41	-27 2.6	1.235	2.182	12.1	20.2
9 18	21 54.89	-24 40.2	0.965	1.881	17.6	19.4	9 18	21 49.91	-26 22.8	1.279	2.171	16.0	20.4
9 28	21 52.79	-24 6.9	1.020	1.875	21.8	19.7	9 28	21 45.47	-25 20.7	1.342	2.162	19.5	20.6
448432	2009 <i>VJ</i> ₁₁₅		8 23.9 254°39	5°5/16.5	18		198077	2004 <i>SS</i> ₄		8 24.0 274°51	4°1/27.7	18	
7 20	22 36.14	-31 4.0	3.023	3.884	9.0	21.6	7 20	22 33.60	+ 2 51.1	1.882	2.701	15.4	20.5
7 30	22 30.92	-32 3.5	2.944	3.865	7.3	21.4	7 30	22 29.69	+ 2 35.2	1.783	2.680	12.5	20.2
8 9	22 24.16	-32 58.8	2.891	3.845	5.9	21.3	8 9	22 23.77	+ 1 58.3	1.703	2.660	9.1	20.0
8 19	22 16.30	-33 44.8	2.865	3.824	5.6	21.2	8 19	22 16.30	+ 1 1.0	1.648	2.639	5.7	19.7
8 29	22 8.00	-34 17.2	2.866	3.803	6.6	21.3	8 29	22 8.07	- 0 13.2	1.618	2.617	4.1	19.6
9 8	21 59.97	-34 33.1	2.894	3.782	8.3	21.4	9 8	22 0.07	- 1 38.0	1.616	2.596	6.6	19.7
9 18	21 52.90	-34 31.6	2.947	3.760	10.2	21.5	9 18	21 53.23	- 3 5.8	1.640	2.574	10.3	19.9
9 28	21 47.38	-34 13.4	3.022	3.738	12.0	21.6	9 28	21 48.40	- 4 28.9	1.688	2.552	14.0	20.1
475386	2006 <i>GT</i> ₂₁		8 23.9 93°73	3°9/21.2	16		70014	1998 <i>YL</i> ₃		8 24.0 265°52	0°3/23.7	18	
7 20	22 41.31	-20 32.1	1.772	2.647	13.7	21.0	7 20	22 33.04	-10 7.4	2.508	3.362	10.9	19.5
7 30	22 35.25	-21 0.7	1.714	2.655	10.3	20.8	7 30	22 28.68	-10 33.1	2.421	3.351	8.2	19.3
8 9	22 26.98	-21 29.6	1.679	2.663	6.6	20.7	8 9	22 22.82	-11 6.5	2.357	3.340	5.1	19.1
8 19	22 17.25	-21 53.0	1.669	2.670	4.0	20.5	8 19	22 15.89	-11 44.5	2.320	3.329	1.7	18.9
8 29	22 7.13	-22 5.4	1.687	2.678	5.2	20.6	8 29	22 8.53	-12 23.5	2.312	3.318	1.9	18.9
9 8	21 57.76	-22 3.2	1.731	2.686	8.5	20.8	9 8	22 1.45	-12 59.4	2.332	3.307	5.3	19.1
9 18	21 50.10	-21 45.8	1.800	2.693	12.0	21.1	9 18	21 55.31	-13 28.8	2.380	3.295	8.5	19.3
9 28	21 44.84	-21 13.9	1.890	2.701	15.0	21.3	9 28	21 50.70	-13 49.4	2.452	3.284	11.3	19.4
319135	2005 <i>YB</i> ₁₁		8 23.9 314°43	6°3/17.2	18		482200	2010 <i>VA</i> ₁₀₃		8 24.0 301°39	1°0/24.9	18	
7 20	22 34.04	-26 30.5	2.028	2.912	11.9	20.5	7 20	22 35.69	- 7 30.1	2.125	2.973	12.8	21.2
7 30	22 29.90	-27 52.9	1.964	2.903	9.2	20.3	7 30	22 30.87	- 7 27.4	2.040	2.966	9.8	20.9
8 9	22 23.76	-29 13.6	1.923	2.895	7.0	20.1	8 9	22 24.27	- 7 34.1	1.979	2.958	6.3	20.7
8 19	22 16.21	-30 24.9	1.909	2.887	6.3	20.1	8 19	22 16.41	- 7 48.0	1.944	2.950	2.6	20.5
8 29	22 8.11	-31 19.7	1.920	2.879	7.7	20.2	8 29	22 8.04	- 8 6.0	1.936	2.943	2.0	20.4
9 8	22 0.47	-31 53.3	1.956	2.871	10.2	20.3	9 8	22 0.04	- 8 24.3	1.956	2.936	5.7	20.7
9 18	21 54.18	-32 4.1	2.016	2.863	12.9	20.5	9 18	21 53.20	- 8 39.5	2.003	2.928	9.3	20.9
9 28	21 49.95	-31 52.8	2.095	2.856	15.3	20.6	9 28	21 48.20	- 8 48.8	2.074	2.921	12.5	21.1
327821	2006 <i>VF</i> ₁₇₁		8 23.9 11°41	4°8/27.2	17		266750	2009 <i>SU</i> ₆₅		8 24.0 289°74	0°9/23.1	18	
7 20	22 34.56	+ 0 5.5	1.236	2.094	19.5	19.9	7 20	22 32.72	-11 40.3	2.311	3.174	11.4	21.4
7 30	22 30.97	+ 0 26.3	1.173	2.095	15.6	19.7	7 30	22 28.61	-12 15.2	2.223	3.158	8.5	21.2
8 9	22 24.73	+ 0 24.1	1.128	2.098	11.1	19.5	8 9	22 22.86	-12 58.0	2.157	3.143	5.2	21.0
8 19	22 16.59	- 0 0.4	1.104	2.100	6.7	19.2	8 19	22 15.93	-13 45.0	2.119	3.128	1.8	20.7
8 29	22 7.75	- 0 43.2	1.103	2.104	4.9	19.1	8 29	22 8.50	-14 31.6	2.108	3.112	2.4	20.8
9 8	21 59.59	- 1 36.8	1.125	2.109	8.1	19.3	9 8	22 1.35	-15 13.1	2.126	3.097	6.0	21.0
9 18	21 53.34	- 2 32.9	1.170	2.114	12.6	19.6	9 18	21 55.22	-15 45.9	2.170	3.082	9.3	21.1
9 28	21 49.88	- 3 23.4	1.236	2.120	16.7	19.9	9 28	21 50.72	-16 7.4	2.237	3.067	12.3	21.3
137600	1999 <i>VJ</i> ₁₆₉		8 23.9 257°49	0°3/24.2	18		204007	2003 <i>UQ</i> ₁₄		8 24.0 268°37	0°8/24.7	18	
7 20	22 38.16	- 8 16.9	1.689	2.549	15.0	21.2	7 20	22 34.88	- 6 42.9	1.872	2.727	14.0	20.6
7 30	22 33.29	- 8 38.2	1.600	2.533	11.5	20.9	7 30	22 30.52	- 7 5.9	1.791	2.719	10.7	20.4
8 9	22 26.06	- 9 12.5	1.533	2.516	7.3	20.7	8 9	22 24.17	- 7 41.8	1.731	2.712	6.8	20.2
8 19	22 17.06	- 9 56.4	1.491	2.499	2.6	20.3	8 19	22 16.40	- 8 27.4	1.697	2.704	2.6	19.9
8 29	22 7.24	-10 44.1	1.475	2.482	2.4	20.3	8 29	22 8.04	- 9 17.8	1.690	2.697	2.1	19.8
9 8	21 57.77	-11 29.3	1.486	2.464	7.3	20.5	9 8	22 0.08	-10 7.2	1.710	2.689	6.3	20.1
9 18	21 49.77	-12 6.7	1.523	2.446	11.8	20.8	9 18	21 53.41	-10 50.4	1.756	2.682	10.3	20.3
9 28	21 44.13	-12 32.1	1.581	2.428	15.7	21.0	9 28	21 48.77	-11 23.5	1.824	2.674	13.8	20.5
154535	2003 <i>GH</i> ₁		8 23.9 61°61	2°9/26.8	18		470278	2007 <i>DO</i> ₅		8 24.0 150°01	2°7/21.7	17	
7 20	22 32.96	+ 1 4.2	1.539	2.380	17.1	19.7	7 20	22 36.17	-13 57.4	1.626	2.505	14.5	21.2
7 30	22 29.24	+ 0 13.8	1.478	2.393	13.4	19.5	7 30	22 31.71	-15 5.0	1.562	2.507	10.8	20.9
8 9	22 23.39	- 1 0.4	1.437	2.406	9.2	19.3	8 9	22 24.99	-16 22.1	1.520	2.509	6.6	20.7
8 19	22 16.10	- 2 34.1	1.420	2.420	4.8	19.1	8 19	22 16.68	-17 41.4	1.504	2.511	3.0	20.5
8 29	22 8.33	- 4 19.7	1.428	2.433	3.1	19.0	8 29	22 7.79	-18 54.5	1.514	2.512	4.4	20.6
9 8	22 1.17	- 6 7.3	1.464	2.447	6.6	19.3	9 8	21 59.49	-19 54.1	1.550	2.514	8.5	20.8
9 18	21 55.56	- 7 47.8	1.524	2.461	10.8	19.5	9 18	21 52.77	-20 35.6	1.610	2.515	12.5	21.1
9 28	21 52.20	- 9 13.9	1.608	2.475	14.5	19.8	9 28	21 48.42	-20 57.2	1.692	2.516	15.9	21.3
430684	2003 <i>WR</i> ₉₃		8 23.9 245°18	2°6/22.0	17		389106	2008 <i>YE</i> ₂₀					

EPHEMERIDES

8 24.0

8 24.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
148515	2001 <i>PW</i> ₈		8 24.0 312°36	1.8°/22.8	17		31257	1998 <i>DG</i> ₃₅		8 24.0 13°28	4.1°/21.0	18	
7 20	22 38.51	-13 49.5	1.497	2.376	15.5	19.4	7 20	22 38.15	-20 57.1	1.765	2.646	13.5	17.5
7 30	22 33.67	-14 11.2	1.427	2.371	11.6	19.2	7 30	22 32.99	-21 24.7	1.704	2.648	10.1	17.3
8 9	22 26.31	-14 41.0	1.378	2.366	7.2	18.9	8 9	22 25.67	-21 52.4	1.666	2.651	6.6	17.1
8 19	22 17.15	-15 13.6	1.352	2.361	2.6	18.6	8 19	22 16.90	-22 14.7	1.653	2.654	4.2	17.0
8 29	22 7.31	-15 42.4	1.353	2.356	3.6	18.7	8 29	22 7.69	-22 25.9	1.666	2.657	5.3	17.1
9 8	21 58.10	-16 1.8	1.379	2.352	8.3	18.9	9 8	21 59.16	-22 22.6	1.705	2.661	8.6	17.3
9 18	21 50.66	-16 8.4	1.429	2.348	12.7	19.2	9 18	21 52.25	-22 3.8	1.769	2.665	12.0	17.5
9 28	21 45.83	-16 0.5	1.499	2.343	16.6	19.4	9 28	21 47.64	-21 30.1	1.854	2.669	15.0	17.7
476635	2008 <i>SD</i> ₂₃₃		8 24.0 17°68	2.9°/21.8	16		233408	2006 <i>GY</i> ₁₁		8 24.0 66°08	2.3°/26.1	18	
7 20	22 36.03	-15 27.8	1.485	2.371	15.2	21.4	7 20	22 34.66	-1 26.2	1.661	2.504	16.0	20.0
7 30	22 31.74	-16 15.0	1.425	2.373	11.3	21.1	7 30	22 30.29	-2 3.8	1.608	2.526	12.3	19.8
8 9	22 25.05	-17 9.5	1.386	2.375	7.0	20.9	8 9	22 23.94	-3 0.0	1.575	2.547	8.2	19.6
8 19	22 16.70	-18 4.5	1.371	2.378	3.2	20.7	8 19	22 16.30	-4 10.8	1.567	2.569	4.0	19.4
8 29	22 7.79	-18 52.2	1.382	2.381	4.6	20.8	8 29	22 8.30	-5 29.7	1.585	2.591	2.6	19.3
9 8	21 59.56	-19 26.2	1.418	2.385	8.8	21.0	9 8	22 0.96	-6 49.0	1.630	2.612	6.2	19.6
9 18	21 53.08	-19 43.0	1.477	2.388	12.9	21.3	9 18	21 55.12	-8 1.8	1.701	2.634	10.1	19.9
9 28	21 49.13	-19 41.7	1.557	2.393	16.5	21.5	9 28	21 51.41	-9 2.9	1.795	2.655	13.5	20.2
444662	2007 <i>CC</i> ₄₀		8 24.0 324°16	1.5°/25.1	18		41149	1999 <i>VQ</i> ₁₄₄		8 24.0 142°84	0.5°/24.5	18	
7 20	22 37.26	-7 7.4	1.977	2.826	13.6	20.6	7 20	22 34.47	-7 51.8	2.549	3.392	11.1	19.5
7 30	22 32.16	-6 49.5	1.895	2.819	10.4	20.4	7 30	22 29.62	-8 8.5	2.475	3.398	8.4	19.3
8 9	22 25.12	-6 40.9	1.835	2.812	6.8	20.2	8 9	22 23.33	-8 33.6	2.425	3.404	5.3	19.1
8 19	22 16.71	-6 39.9	1.800	2.805	3.0	19.9	8 19	22 16.08	-9 4.2	2.402	3.409	2.0	18.9
8 29	22 7.75	-6 44.1	1.793	2.799	2.2	19.9	8 29	22 8.50	-9 37.2	2.408	3.414	1.6	18.9
9 8	21 59.21	-6 50.0	1.813	2.793	6.0	20.1	9 8	22 1.28	-10 8.9	2.442	3.419	4.9	19.1
9 18	21 51.96	-6 54.5	1.860	2.787	9.8	20.3	9 18	21 55.05	-10 36.1	2.505	3.424	7.9	19.3
9 28	21 46.70	-6 54.8	1.930	2.782	13.1	20.5	9 28	21 50.33	-10 56.4	2.592	3.429	10.6	19.5
164766	1998 <i>XQ</i> ₁₃		8 24.0 305°37	1.6°/22.6	18		391248	2006 <i>QZ</i> ₇₄		8 24.0 23°07	1.5°/23.1	18	
7 20	22 34.29	-12 40.0	1.716	2.593	14.0	20.3	7 20	22 37.30	-13 52.6	1.497	2.378	15.4	20.5
7 30	22 30.33	-13 20.0	1.635	2.578	10.5	20.1	7 30	22 32.56	-14 2.0	1.440	2.385	11.5	20.3
8 9	22 24.19	-14 9.8	1.575	2.563	6.5	19.8	8 9	22 25.49	-14 18.3	1.404	2.392	7.0	20.1
8 19	22 16.44	-15 4.4	1.540	2.549	2.4	19.5	8 19	22 16.85	-14 36.6	1.392	2.401	2.5	19.8
8 29	22 8.01	-15 57.1	1.532	2.535	3.4	19.6	8 29	22 7.76	-14 51.7	1.406	2.410	3.3	19.9
9 8	21 59.97	-16 41.5	1.550	2.521	7.7	19.8	9 8	21 59.44	-14 58.9	1.445	2.420	7.8	20.2
9 18	21 53.35	-17 12.8	1.592	2.508	11.9	20.0	9 18	21 52.88	-14 55.6	1.508	2.431	11.9	20.4
9 28	21 48.95	-17 28.3	1.656	2.495	15.5	20.2	9 28	21 48.81	-14 40.6	1.593	2.442	15.5	20.7
46407	2002 <i>EC</i> ₇₄		8 24.0 139°13	0.9°/24.7	18		84225	<i>Verish</i>		8 24.0 228°99	1.8°/22.6	18	
7 20	22 36.57	-6 37.6	1.892	2.743	14.0	19.7	7 20	22 39.79	-13 41.8	1.776	2.644	14.0	20.7
7 30	22 31.64	-6 58.8	1.822	2.748	10.7	19.5	7 30	22 34.37	-14 15.0	1.696	2.635	10.5	20.4
8 9	22 24.78	-7 32.3	1.774	2.753	6.8	19.3	8 9	22 26.66	-14 56.0	1.639	2.625	6.5	20.2
8 19	22 16.58	-8 14.7	1.751	2.758	2.6	19.0	8 19	22 17.30	-15 39.8	1.607	2.616	2.5	19.9
8 29	22 7.92	-9 1.2	1.755	2.762	2.0	19.0	8 29	22 7.26	-16 20.1	1.603	2.605	3.5	19.9
9 8	21 59.76	-9 46.4	1.788	2.767	6.1	19.2	9 8	21 57.68	-16 51.3	1.626	2.594	7.7	20.2
9 18	21 52.96	-10 25.5	1.846	2.771	10.0	19.5	9 18	21 49.61	-17 9.7	1.673	2.583	11.8	20.4
9 28	21 48.18	-10 55.0	1.927	2.774	13.3	19.7	9 28	21 43.87	-17 13.6	1.743	2.571	15.3	20.6
173533	2000 <i>WX</i> ₄₂		8 24.0 247°04	0.9°/24.7	18		342797	2008 <i>WU</i> ₁₃₅		8 24.0 278°67	2.0°/25.7	18	
7 20	22 36.73	-5 56.8	1.523	2.384	16.3	20.4	7 20	22 34.82	-3 48.0	1.812	2.659	14.7	21.3
7 30	22 32.35	-6 27.2	1.444	2.376	12.5	20.1	7 30	22 30.62	-4 1.9	1.723	2.644	11.5	21.1
8 9	22 25.54	-7 14.7	1.387	2.368	8.0	19.8	8 9	22 24.34	-4 31.3	1.655	2.630	7.7	20.8
8 19	22 16.92	-8 15.4	1.353	2.360	3.1	19.5	8 19	22 16.52	-5 14.1	1.612	2.616	3.6	20.6
8 29	22 7.54	-9 22.7	1.345	2.352	2.4	19.5	8 29	22 8.01	-6 5.9	1.595	2.601	2.5	20.5
9 8	21 58.63	-10 28.5	1.363	2.343	7.4	19.8	9 8	21 59.82	-7 0.7	1.605	2.587	6.4	20.7
9 18	21 51.34	-11 25.9	1.405	2.335	12.1	20.0	9 18	21 52.92	-7 52.5	1.641	2.572	10.6	20.9
9 28	21 46.54	-12 9.7	1.470	2.326	16.2	20.2	9 28	21 48.12	-8 36.3	1.700	2.558	14.3	21.1
445367	2010 <i>OF</i> ₁₁₂		8 24.0 337°79	0.3°/24.2	18		40848	1999 <i>TZ</i> ₁₀₂		8 24.0 276°54	9.6°/15.2	18	
7 20	22 37.15	-10 27.5	1.898	2.759	13.6	20.4	7 20	22 40.88	-34 42.5	1.788	2.661	13.7	18.7
7 30	22 32.14	-10 19.2	1.820	2.753	10.3	20.2	7 30	22 35.45	-36 7.6	1.733	2.653	11.5	18.5
8 9	22 25.14	-10 18.3	1.765	2.748	6.4	19.9	8 9	22 27.41	-37 23.0	1.700	2.646	9.9	18.4
8 19	22 16.73	-10 22.5	1.734	2.743	2.3	19.6	8 19	22 17.55	-38 19.1	1.691	2.638	9.7	18.4
8 29	22 7.80	-10 28.2	1.731	2.738	2.1	19.6	8 29	22 7.05	-38 48.2	1.706	2.631	11.0	18.4
9 8	21 59.33	-10 31.9	1.755	2.733	6.3	19.9	9 8	21 57.29	-38 46.9	1.745	2.623	13.2	18.6
9 18	21 52.23	-10 30.7	1.805	2.729	10.2	20.1	9 18	21 49.42	-38 16.3	1.803	2.615	15.7	18.7
9 28	21 47.20	-10 22.7	1.878	2.726	13.6	20.3	9 28	21 44.28	-37 20.2	1.880	2.608	17.9	18.9
333977	2000 <i>QM</i> ₁₇₀		8 24.0 343°76	2.4°/25.7	18		73750	1993 <i>TT</i> ₄₁		8 24.0 227°07	1.1°/25.3	18	
7 20	22 28.72	-4 4.8	1.138	2.023	18.9	19.8	7 20	22 34.39	-4 29.9	2.527	3.359	11.5	20.6
7 30	22 26.93	-4 10.9	1.065	2.008	14.8	19.5	7 30	22 29.72	-5 1.4	2.432	3.347	8.9	20.5
8 9	22 22.46	-4 39.1	1.011	1.995	9.9	19.2	8 9	22 23.51	-5 44.8	2.360	3.334	5.8	20.2
8 19	22 15.94	-5 27.1	0.977	1.982	4.7	18.8	8 19	22 16.19	-6 37.5	2.316	3.321	2.5	20.0
8 29	22 8.53	-6 28.6	0.965	1.972	3.2	18.7	8 29	22 8.38	-7 35.8	2.301	3.307	1.8	19.9
9 8	22 1.66	-7 34.1	0.975	1.963	8.3	19.0	9 8	22 0.80	-8 34.8	2.314	3.292	5.0	20.1
9 18	21 56.64	-8 34.4	1.007	1.956	13.6	19.3	9 18	21 54.15	-9 30.1	2.356	3.277	8.3	20.3
9 28	21 54.47	-9 21.5	1.058	1.950	18.3	19.5	9 28	21 49.01	-10 18.0	2.423	3.262	11.2	20.5
286507	2002 <i>CW</i> ₁₄		8 24.0 164°48	1.2°/24.9	17		254485	2005 <i>ET</i> ₂₀		8 24.0 129°33	1.5°/22.9	17	

EPHEMERIDES

8 24.0

8 24.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
476835	2008 <i>UC</i> ₂₈₆		8 24.0 354°98	1°2/24.9	18		316466	2010 <i>UW</i> ₉₇		8 24.0 342°47	4°2/19.7	18	
7 20	22 28.65	- 5 53.5	1.130	2.022	18.6	20.4	7 20	22 33.77	-20 43.7	2.049	2.930	11.8	20.8
7 30	22 26.80	- 6 17.0	1.067	2.014	14.3	20.2	7 30	22 29.59	-21 47.0	1.984	2.928	8.9	20.6
8 9	22 22.31	- 7 1.5	1.021	2.009	9.2	19.9	8 9	22 23.56	-22 52.3	1.942	2.925	5.9	20.4
8 19	22 15.88	- 8 2.6	0.996	2.004	3.6	19.5	8 19	22 16.24	-23 53.4	1.926	2.923	4.2	20.3
8 29	22 8.69	- 9 12.3	0.994	2.002	2.7	19.5	8 29	22 8.46	-24 43.8	1.938	2.921	5.5	20.4
9 8	22 2.15	-10 20.4	1.015	2.001	8.3	19.8	9 8	22 1.14	-25 18.9	1.976	2.919	8.4	20.6
9 18	21 57.48	-11 18.1	1.057	2.001	13.5	20.1	9 18	21 55.09	-25 36.2	2.038	2.918	11.4	20.8
9 28	21 55.60	-11 59.0	1.118	2.004	18.0	20.4	9 28	21 50.97	-25 35.4	2.121	2.916	14.1	21.0
224034	2005 <i>LD</i> ₄₈		8 24.0 15°88	3°7/22.2	18		252089	2000 <i>UQ</i> ₂₉		8 24.0 249°85	12°1/4.7	18	
7 20	22 38.16	-18 1.3	1.018	1.925	18.9	19.0	7 20	22 37.17	+23 28.9	1.999	2.672	19.0	20.9
7 30	22 34.06	-18 11.8	0.973	1.930	14.1	18.8	7 30	22 32.58	+24 17.3	1.894	2.652	17.3	20.7
8 9	22 26.78	-18 26.1	0.945	1.937	8.8	18.5	8 9	22 25.73	+24 37.6	1.804	2.630	15.5	20.5
8 19	22 17.34	-18 36.9	0.938	1.946	4.2	18.3	8 19	22 17.10	+24 24.4	1.732	2.608	13.7	20.4
8 29	22 7.35	-18 36.8	0.954	1.955	5.6	18.4	8 29	22 7.51	+23 34.6	1.681	2.585	12.4	20.2
9 8	21 58.54	-18 21.1	0.992	1.966	10.5	18.7	9 8	21 58.05	+22 9.6	1.654	2.561	12.2	20.2
9 18	21 52.24	-17 49.1	1.050	1.979	15.4	19.0	9 18	21 49.81	+20 15.5	1.650	2.536	13.3	20.2
9 28	21 49.25	-17 1.8	1.127	1.992	19.4	19.3	9 28	21 43.73	+18 2.2	1.669	2.511	15.2	20.3
356899	2011 <i>YL</i> ₄₂		8 24.0 289°49	1°3/26.2	16		272596	2005 <i>VP</i> ₁₀₇		8 24.0 323°77	5°0/28.5	18	
7 20	22 27.92	- 3 32.3	4.271	5.089	7.4	20.9	7 20	22 33.05	+ 3 51.9	1.994	2.804	14.9	20.4
7 30	22 24.31	- 3 35.6	4.176	5.080	5.7	20.8	7 30	22 29.08	+ 4 9.5	1.908	2.797	12.2	20.2
8 9	22 19.88	- 3 45.2	4.106	5.071	3.9	20.7	8 9	22 23.29	+ 4 9.2	1.842	2.789	9.2	20.0
8 19	22 14.90	- 4 0.0	4.063	5.062	2.0	20.5	8 19	22 16.18	+ 3 51.0	1.800	2.782	6.3	19.8
8 29	22 9.70	- 4 18.7	4.050	5.053	1.4	20.4	8 29	22 8.51	+ 3 16.8	1.784	2.775	5.0	19.7
9 8	22 4.64	- 4 39.4	4.066	5.044	3.1	20.6	9 8	22 1.16	+ 2 30.8	1.794	2.768	6.6	19.8
9 18	22 0.09	- 5 0.1	4.111	5.035	5.0	20.7	9 18	21 54.97	+ 1 38.4	1.830	2.762	9.5	19.9
9 28	21 56.34	- 5 19.1	4.183	5.026	6.8	20.8	9 28	21 50.62	+ 0 45.7	1.889	2.756	12.6	20.1
655	<i>Briseis</i>		8 24.0 287°95	1°2/22.8	18		207168	2005 <i>CQ</i> ₅₃		8 24.0 208°16	2°8/21.3	18	
7 20	22 32.81	-11 28.2	2.092	2.958	12.3	14.7	7 20	22 38.77	-18 31.2	2.454	3.316	10.8	21.3
7 30	22 28.82	-12 16.8	2.011	2.950	9.1	14.5	7 30	22 33.02	-19 9.9	2.374	3.309	8.1	21.1
8 9	22 23.06	-13 14.8	1.955	2.941	5.6	14.2	8 9	22 25.57	-19 51.1	2.319	3.302	5.1	20.9
8 19	22 16.05	-14 17.5	1.924	2.933	1.9	14.0	8 19	22 16.93	-20 30.1	2.292	3.294	2.9	20.8
8 29	22 8.53	-15 19.3	1.921	2.925	2.8	14.0	8 29	22 7.82	-21 2.2	2.293	3.286	3.9	20.8
9 8	22 1.36	-16 14.4	1.946	2.917	6.5	14.3	9 8	21 59.08	-21 23.8	2.324	3.277	6.8	21.0
9 18	21 55.32	-16 58.4	1.997	2.908	10.1	14.5	9 18	21 51.48	-21 32.9	2.381	3.267	9.8	21.2
9 28	21 51.09	-17 28.7	2.071	2.900	13.2	14.7	9 28	21 45.62	-21 28.7	2.462	3.256	12.4	21.4
184273	2004 <i>XR</i> ₁₃₇		8 24.0 88°53	0°1/23.9	18		270225	2001 <i>TN</i> ₁₈₃		8 24.0 300°30	3°5/21.6	18	
7 20	22 36.18	- 9 6.4	1.766	2.628	14.3	20.5	7 20	22 38.08	-17 17.7	1.505	2.390	15.1	21.0
7 30	22 31.47	- 9 35.4	1.700	2.635	10.8	20.3	7 30	22 33.49	-17 57.1	1.432	2.379	11.4	20.8
8 9	22 24.74	-10 15.6	1.657	2.641	6.7	20.1	8 9	22 26.33	-18 42.3	1.380	2.368	7.2	20.5
8 19	22 16.61	-11 2.7	1.638	2.647	2.2	19.8	8 19	22 17.28	-19 26.5	1.352	2.357	3.7	20.3
8 29	22 8.02	-11 51.0	1.647	2.653	2.3	19.9	8 29	22 7.48	-20 2.2	1.349	2.346	5.1	20.3
9 8	21 59.98	-12 34.7	1.682	2.660	6.7	20.2	9 8	21 58.24	-20 23.2	1.371	2.335	9.4	20.5
9 18	21 53.40	-13 9.4	1.743	2.666	10.6	20.4	9 18	21 50.76	-20 26.3	1.417	2.325	13.6	20.8
9 28	21 48.96	-13 31.9	1.827	2.672	14.0	20.6	9 28	21 45.94	-20 11.0	1.483	2.315	17.3	21.0
442436	2011 <i>UE</i> ₁₅₇		8 24.0 282°98	1°7/22.5	18		342713	2008 <i>WP</i> ₁₂		8 24.0 257°99	3°4/20.7	18	
7 20	22 34.55	-13 28.4	2.019	2.888	12.5	21.8	7 20	22 38.25	-18 37.8	2.194	3.062	11.7	22.1
7 30	22 30.24	-14 8.8	1.934	2.874	9.3	21.5	7 30	22 33.02	-19 32.0	2.100	3.039	8.8	21.9
8 9	22 24.01	-14 57.0	1.873	2.860	5.7	21.3	8 9	22 25.80	-20 30.6	2.031	3.014	5.7	21.7
8 19	22 16.41	-15 48.3	1.838	2.846	2.2	21.0	8 19	22 17.08	-21 28.0	1.988	2.990	3.5	21.5
8 29	22 8.21	-16 37.1	1.830	2.832	3.2	21.1	8 29	22 7.66	-22 18.0	1.974	2.964	4.7	21.5
9 8	22 0.36	-17 18.0	1.850	2.818	7.0	21.3	9 8	21 58.48	-22 55.3	1.988	2.938	8.0	21.7
9 18	21 53.71	-17 47.1	1.895	2.804	10.7	21.5	9 18	21 50.48	-23 16.8	2.027	2.911	11.3	21.9
9 28	21 49.00	-18 2.1	1.962	2.790	13.9	21.7	9 28	21 44.42	-23 21.3	2.089	2.884	14.3	22.0
252877	2002 <i>JO</i> ₅₇		8 24.0 195°77	6°1/16.2	18		144375	2004 <i>DL</i> ₅₆		8 24.0 38°00	1°0/25.0	18	
7 20	22 38.01	-32 47.2	2.870	3.729	9.5	21.1	7 20	22 31.05	- 3 5.4	1.665	2.521	15.4	19.7
7 30	22 32.33	-33 48.5	2.811	3.726	7.8	21.0	7 30	22 27.75	- 4 16.2	1.603	2.531	11.7	19.5
8 9	22 25.06	-34 43.7	2.776	3.723	6.5	20.9	8 9	22 22.50	- 5 46.5	1.562	2.541	7.5	19.2
8 19	22 16.70	-35 27.4	2.768	3.719	6.2	20.8	8 19	22 15.92	- 7 30.6	1.546	2.552	3.0	19.0
8 29	22 7.97	-35 55.3	2.787	3.715	7.1	20.9	8 29	22 8.87	- 9 20.3	1.557	2.564	2.1	19.0
9 8	21 59.66	-36 5.0	2.833	3.711	8.7	21.0	9 8	22 2.36	-11 6.0	1.595	2.576	6.5	19.3
9 18	21 52.46	-35 56.4	2.903	3.706	10.6	21.1	9 18	21 57.23	-12 40.1	1.658	2.588	10.6	19.5
9 28	21 46.95	-35 30.6	2.994	3.701	12.2	21.3	9 28	21 54.15	-13 56.8	1.745	2.600	14.1	19.8
83168	2001 <i>QY</i> ₂₇₉		8 24.0 280°34	4°3/19.4	18		19770	2000 <i>OP</i> ₂₂		8 24.0 336°55	2°8/21.8	18	
7 20	22 33.71	-19 23.0	1.960	2.842	12.3	19.3	7 20	22 27.70	-11 53.0	1.161	2.066	17.2	17.3
7 30	22 29.66	-20 49.3	1.892	2.838	9.2	19.1	7 30	22 26.25	-13 8.2	1.088	2.046	12.9	17.0
8 9	22 23.67	-22 20.1	1.849	2.833	6.1	18.9	8 9	22 22.13	-14 42.2	1.034	2.028	7.9	16.7
8 19	22 16.29	-23 47.9	1.832	2.829	4.4	18.8	8 19	22 15.93	-16 26.5	1.001	2.010	3.3	16.3
8 29	22 8.36	-25 4.8	1.842	2.824	5.9	18.8	8 29	22 8.78	-18 9.0	0.992	1.994	5.2	16.4
9 8	22 0.85	-26 4.8	1.878	2.820	8.9	19.0	9 8	22 2.12	-19 36.9	1.006	1.980	10.5	16.7
9 18	21 54.65	-26 44.3	1.939	2.816	12.1	19.2	9 18	21 57.29	-20 41.3	1.040	1.967	15.6	16.9
9 28	21 50.45	-27 2.7	2.021	2.811	14.9	19.4	9 28	21 55.33	-21 17.4	1.092	1.955	20.1	17.1
176130	2001 <i>FT</i> ₃		8 24.0 88°96	2°3/22.4	17		374857	2006 <i>VM</i> ₂₃		8 24.0 229°			

EPHEMERIDES

8 24.0

8 24.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
365054	2008 <i>WM</i> ₄₅	8 24.0 203°29		1°2/23.2 17			20510	1999 <i>RQ</i> ₂₆	8 24.0 90°84		1°4/25.6 18		
7 20	22 39.99	-11 6.4	1.446	2.319	16.3	22.0	7 20	22 32.47	-3 20.2	2.232	3.069	12.6	18.6
7 30	22 34.91	-11 45.4	1.376	2.317	12.3	21.8	7 30	22 28.35	-3 57.0	2.162	3.079	9.7	18.5
8 9	22 27.20	-12 36.9	1.327	2.314	7.6	21.5	8 9	22 22.68	-4 47.4	2.114	3.088	6.4	18.3
8 19	22 17.58	-13 34.9	1.302	2.311	2.6	21.2	8 19	22 15.97	-5 48.1	2.093	3.097	2.9	18.1
8 29	22 7.23	-14 31.6	1.303	2.308	3.4	21.2	8 29	22 8.89	-6 54.5	2.100	3.106	1.9	18.0
9 8	21 57.49	-15 19.4	1.329	2.304	8.4	21.5	9 8	22 2.21	-8 1.1	2.135	3.115	5.2	18.2
9 18	21 49.59	-15 53.0	1.380	2.300	13.1	21.8	9 18	21 56.60	-9 2.9	2.197	3.124	8.5	18.5
9 28	21 44.41	-16 9.8	1.451	2.295	17.0	22.0	9 28	21 52.62	-9 55.9	2.284	3.133	11.4	18.7
514217	2015 <i>OT</i> ₁₂	8 24.0 7°17		4°4/19.8 18			324794	2007 <i>HZ</i> ₁₅	8 24.0 270°44		3°2/27.7 18		
7 20	22 33.58	-19 5.2	1.776	2.663	13.1	21.0	7 20	22 31.48	+1 50.7	2.432	3.243	12.5	20.7
7 30	22 29.69	-20 24.7	1.715	2.663	9.8	20.8	7 30	22 27.60	+1 36.3	2.343	3.237	10.0	20.5
8 9	22 23.74	-21 48.6	1.678	2.664	6.4	20.6	8 9	22 22.24	+1 6.6	2.276	3.231	7.2	20.4
8 19	22 16.36	-23 9.1	1.666	2.665	4.4	20.5	8 19	22 15.84	+0 23.0	2.234	3.225	4.4	20.2
8 29	22 8.45	-24 18.2	1.680	2.666	5.9	20.6	8 29	22 9.01	-0 31.6	2.220	3.219	3.2	20.1
9 8	22 1.06	-25 9.6	1.720	2.667	9.2	20.8	9 8	22 2.44	-1 32.8	2.234	3.213	5.1	20.2
9 18	21 55.12	-25 40.2	1.784	2.669	12.5	21.0	9 18	21 56.81	-2 35.7	2.275	3.207	8.0	20.4
9 28	21 51.33	-25 49.6	1.868	2.671	15.4	21.2	9 28	21 52.67	-3 35.2	2.342	3.201	10.8	20.6
45025	1999 <i>WY</i> ₇	8 24.0 193°57		5°1/29.2 18			259476	2003 <i>SW</i> ₁₇₉	8 24.1 293°22		4°4/20.5 18		
7 20	22 36.25	+6 25.0	2.421	3.198	13.5	19.1	7 20	22 41.54	-25 6.0	2.321	3.186	11.3	19.8
7 30	22 31.15	+6 42.3	2.332	3.197	11.2	19.0	7 30	22 35.15	-25 22.0	2.249	3.181	8.6	19.7
8 9	22 24.44	+6 43.1	2.265	3.194	8.6	18.8	8 9	22 26.90	-25 34.6	2.201	3.176	6.0	19.5
8 19	22 16.57	+6 27.2	2.222	3.191	6.2	18.6	8 19	22 17.41	-25 39.1	2.180	3.171	4.4	19.4
8 29	22 8.22	+5 56.1	2.206	3.188	5.1	18.6	8 29	22 7.54	-25 31.5	2.187	3.166	5.4	19.4
9 8	22 0.17	+5 13.1	2.218	3.184	6.2	18.6	9 8	21 58.22	-25 9.7	2.222	3.161	7.9	19.6
9 18	21 53.13	+4 22.7	2.257	3.179	8.5	18.8	9 18	21 50.26	-24 33.8	2.283	3.157	10.6	19.8
9 28	21 47.71	+3 30.2	2.322	3.174	11.1	18.9	9 28	21 44.29	-23 44.9	2.367	3.152	13.1	19.9
506858	2007 <i>VP</i> ₁₃₆	8 24.0 240°47		2°3/25.8 17			26867	1993 <i>GK</i> ₁	8 24.1 144°58		0°1/24.2 18		
7 20	22 37.02	-2 50.6	1.554	2.403	16.6	22.9	7 20	22 39.49	-8 30.7	1.862	2.715	14.1	19.6
7 30	22 32.58	-3 10.6	1.473	2.395	13.0	22.6	7 30	22 33.87	-8 57.4	1.796	2.724	10.7	19.4
8 9	22 25.74	-3 50.0	1.411	2.386	8.7	22.3	8 9	22 26.22	-9 35.1	1.752	2.733	6.6	19.2
8 19	22 17.10	-4 46.0	1.374	2.377	4.2	22.0	8 19	22 17.20	-10 19.7	1.733	2.742	2.3	18.9
8 29	22 7.67	-5 53.0	1.362	2.368	2.8	21.9	8 29	22 7.73	-11 6.0	1.743	2.750	2.2	19.0
9 8	21 58.67	-7 3.3	1.376	2.358	7.2	22.2	9 8	21 58.83	-11 48.3	1.781	2.757	6.4	19.2
9 18	21 51.23	-8 9.4	1.415	2.348	11.8	22.4	9 18	21 51.38	-12 22.6	1.844	2.764	10.3	19.5
9 28	21 46.25	-9 4.7	1.476	2.338	15.8	22.7	9 28	21 46.08	-12 45.7	1.931	2.770	13.6	19.7
244863	2003 <i>UO</i> ₂₀₈	8 24.0 289°65		2°8/21.7 18			514292	2015 <i>TV</i> ₁₇	8 24.1 272°58		9°6/12.4 18		
7 20	22 36.30	-16 6.7	1.785	2.662	13.5	20.5	7 20	22 39.52	-40 53.1	2.314	3.164	11.8	21.1
7 30	22 31.73	-16 51.3	1.713	2.657	10.1	20.2	7 30	22 34.06	-42 18.2	2.269	3.160	10.4	21.0
8 9	22 25.02	-17 42.0	1.663	2.651	6.3	20.0	8 9	22 26.42	-43 30.6	2.247	3.157	9.6	21.0
8 19	22 16.80	-18 32.8	1.639	2.645	3.1	19.8	8 19	22 17.28	-44 23.1	2.249	3.153	9.8	21.0
8 29	22 8.01	-19 17.2	1.642	2.640	4.3	19.9	8 29	22 7.65	-44 50.0	2.275	3.150	10.8	21.1
9 8	21 59.70	-19 49.7	1.671	2.634	8.1	20.1	9 8	21 58.65	-44 49.5	2.323	3.146	12.3	21.2
9 18	21 52.86	-20 6.9	1.725	2.629	11.8	20.3	9 18	21 51.25	-44 22.5	2.392	3.143	14.0	21.3
9 28	21 48.23	-20 7.7	1.800	2.624	15.1	20.5	9 28	21 46.15	-43 32.6	2.478	3.139	15.5	21.4
418236	2008 <i>DS</i> ₂₆	8 24.0 176°39		1°5/22.8 17			400831	2010 <i>KT</i> ₇₈	8 24.1 0°80		5°4/28.5 18		
7 20	22 40.37	-12 51.0	1.901	2.762	13.5	22.4	7 20	22 35.25	+3 55.0	1.936	2.744	15.4	20.5
7 30	22 34.57	-13 27.4	1.830	2.765	10.1	22.2	7 30	22 30.75	+4 26.4	1.857	2.743	12.6	20.3
8 9	22 26.69	-14 11.5	1.781	2.767	6.2	21.9	8 9	22 24.35	+4 40.3	1.799	2.743	9.5	20.1
8 19	22 17.35	-14 58.3	1.759	2.768	2.2	21.7	8 19	22 16.60	+4 36.2	1.764	2.743	6.6	19.9
8 29	22 7.49	-15 42.1	1.765	2.768	3.1	21.8	8 29	22 8.31	+4 15.6	1.754	2.743	5.4	19.9
9 8	21 58.16	-16 17.6	1.799	2.768	7.1	22.0	9 8	22 0.42	+3 42.3	1.772	2.744	6.9	19.9
9 18	21 50.29	-16 41.3	1.859	2.767	10.9	22.2	9 18	21 53.78	+3 1.4	1.814	2.744	9.8	20.1
9 28	21 44.60	-16 51.5	1.942	2.766	14.1	22.5	9 28	21 49.09	+2 18.7	1.881	2.745	12.8	20.3
428519	2008 <i>AQ</i> ₈	8 24.0 307°07		1°5/24.9 17			357562	2004 <i>TE</i> ₆₃	8 24.1 3°03		2°5/22.2 18		
7 20	22 36.32	-7 0.8	1.235	2.113	18.2	21.6	7 20	22 33.72	-15 55.9	1.551	2.440	14.6	19.7
7 30	22 32.92	-7 56.7	1.141	2.081	14.3	21.3	7 30	22 29.97	-16 21.2	1.490	2.439	10.8	19.5
8 9	22 26.48	-7 9.2	1.065	2.050	9.4	20.9	8 9	22 23.99	-16 52.2	1.449	2.439	6.7	19.2
8 19	22 17.52	-7 36.3	1.011	2.018	3.9	20.5	8 19	22 16.48	-17 23.3	1.433	2.440	3.0	19.0
8 29	22 7.15	-8 13.0	0.980	1.987	3.0	20.4	8 29	22 8.46	-17 48.4	1.442	2.443	4.1	19.1
9 8	21 56.96	-8 51.8	0.972	1.957	8.9	20.6	9 8	22 1.07	-18 2.5	1.476	2.446	8.2	19.4
9 18	21 48.54	-9 25.5	0.987	1.927	14.8	20.8	9 18	21 55.29	-18 2.8	1.533	2.451	12.1	19.6
9 28	21 43.24	-9 47.6	1.020	1.897	20.0	21.0	9 28	21 51.85	-17 48.4	1.612	2.456	15.6	19.8
125312	2001 <i>VK</i> ₃₃	8 24.0 178°28		3°5/21.0 17			237096	2008 <i>TJ</i> ₄₄	8 24.1 226°97		0°5/23.7 18		
7 20	22 38.97	-18 24.9	1.894	2.768	13.0	20.2	7 20	22 36.64	-10 13.1	1.864	2.726	13.7	20.9
7 30	22 33.58	-19 16.1	1.828	2.769	9.7	20.0	7 30	22 31.87	-10 41.7	1.788	2.723	10.3	20.7
8 9	22 26.09	-20 10.9	1.785	2.770	6.2	19.8	8 9	22 25.08	-11 20.4	1.734	2.719	6.4	20.5
8 19	22 17.15	-21 3.0	1.768	2.770	3.6	19.6	8 19	22 16.85	-12 5.1	1.706	2.715	2.1	20.2
8 29	22 7.71	-21 45.9	1.779	2.770	4.9	19.7	8 29	22 8.07	-12 50.3	1.705	2.711	2.4	20.2
9 8	21 58.81	-22 14.6	1.816	2.770	8.3	19.9	9 8	21 59.74	-13 30.6	1.732	2.707	6.7	20.5
9 18	21 51.40	-22 26.8	1.878	2.770	11.7	20.1	9 18	21 52.77	-14 1.5	1.784	2.702	10.6	20.7
9 28	21 46.19	-22 22.2	1.963	2.768	14.7	20.3	9 28	21 47.88	-14 20.4	1.858	2.698	14.0	20.9
447682	2007 <i>AA</i> ₂₀	8 24.0 148°09		3°6/19.9 18			414098	2007 <i>TT</i> ₂₄₂	8 24.1 303°69		4°3/26.6 18		
7 20	22 34.18	-19 51.8	2.361	3.235	10.8	2							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
349881	2009 <i>DS</i> ₈₄		8 24.1 174 ^o .11	1 ^o .5/22.5 18			380729	2005 <i>RX</i> ₃₀		8 24.1 326 ^o .17	7 ^o .1/27.0 18		
7 20	22 36.18	-13 35.2	2.370	3.230	11.2	21.9	7 20	22 33.59	-0 19.6	1.137	2.004	20.3	19.4
7 30	22 31.10	-14 15.1	2.298	3.232	8.3	21.7	7 30	22 31.10	+0 53.3	1.042	1.967	16.8	19.1
8 9	22 24.40	-15 1.0	2.249	3.234	5.1	21.5	8 9	22 25.53	+1 50.2	0.964	1.932	12.6	18.7
8 19	22 16.59	-15 48.5	2.228	3.236	2.0	21.3	8 19	22 17.31	+2 27.4	0.905	1.898	8.6	18.4
8 29	22 8.38	-16 33.1	2.235	3.237	2.8	21.4	8 29	22 7.52	+2 42.9	0.867	1.864	7.2	18.2
9 8	22 0.57	-17 10.3	2.271	3.237	6.1	21.6	9 8	21 57.77	+2 38.6	0.851	1.833	10.4	18.2
9 18	21 53.86	-17 37.3	2.334	3.237	9.2	21.8	9 18	21 49.78	+2 20.0	0.854	1.802	15.4	18.4
9 28	21 48.83	-17 52.4	2.421	3.237	11.9	22.0	9 28	21 45.02	+1 55.3	0.876	1.774	20.5	18.6
207115	2005 <i>AH</i> ₃₇		8 24.1 277 ^o .72	2 ^o .5/21.6 18			308051	2004 <i>TP</i> ₃₉		8 24.1 101 ^o .77	1 ^o .1/23.3 17		
7 20	22 34.06	-13 1.8	1.830	2.704	13.4	20.3	7 20	22 41.52	-11 31.0	1.366	2.240	17.0	20.8
7 30	22 30.20	-14 20.9	1.742	2.685	10.0	20.1	7 30	22 35.97	-12 0.5	1.311	2.252	12.7	20.6
8 9	22 24.22	-15 52.4	1.677	2.665	6.2	19.8	8 9	22 27.78	-12 41.1	1.277	2.264	7.8	20.4
8 19	22 16.63	-17 29.6	1.637	2.644	2.8	19.6	8 19	22 17.80	-13 26.6	1.266	2.275	2.6	20.1
8 29	22 8.27	-19 4.0	1.626	2.624	4.2	19.6	8 29	22 7.31	-14 9.7	1.282	2.287	3.3	20.2
9 8	22 0.18	-20 27.2	1.641	2.603	8.3	19.8	9 8	21 57.69	-14 43.6	1.322	2.298	8.3	20.5
9 18	21 53.36	-21 33.1	1.682	2.583	12.3	20.0	9 18	21 50.09	-15 4.3	1.387	2.309	12.8	20.8
9 28	21 48.66	-22 18.2	1.744	2.562	15.7	20.2	9 28	21 45.31	-15 9.9	1.472	2.319	16.7	21.1
141460	2002 <i>CM</i> ₁₁₁		8 24.1 188 ^o .12	0 ^o .2/23.9 18			432831	2011 <i>HH</i> ₁₇		8 24.1 351 ^o .42	10 ^o .1/14.9 18		
7 20	22 33.73	-9 17.3	2.507	3.357	11.0	20.4	7 20	22 33.92	-29 1.1	1.307	2.210	15.7	20.1
7 30	22 29.21	-9 50.5	2.428	3.357	8.3	20.2	7 30	22 30.88	-31 10.1	1.260	2.206	12.7	19.9
8 9	22 23.20	-10 32.0	2.374	3.356	5.1	20.0	8 9	22 24.95	-33 14.4	1.234	2.202	10.5	19.7
8 19	22 16.18	-11 18.6	2.346	3.355	1.7	19.8	8 19	22 16.92	-35 0.4	1.230	2.198	10.3	19.7
8 29	22 8.78	-12 6.2	2.348	3.354	1.8	19.8	8 29	22 8.11	-36 15.9	1.250	2.196	12.2	19.8
9 8	22 1.70	-12 50.5	2.378	3.352	5.2	20.0	9 8	22 0.08	-36 54.5	1.290	2.194	15.2	20.0
9 18	21 55.59	-13 28.0	2.435	3.350	8.3	20.2	9 18	21 54.16	-36 55.8	1.349	2.194	18.2	20.2
9 28	21 50.99	-13 56.2	2.517	3.348	11.1	20.4	9 28	21 51.24	-36 23.8	1.424	2.194	20.9	20.4
480249	2015 <i>HL</i> ₄₀		8 24.1 48 ^o .06	5 ^o .6/19.4 16			348355	2005 <i>EO</i> ₁₅₇		8 24.1 301 ^o .94	1 ^o .6/25.5 18		
7 20	22 37.56	-22 17.6	1.626	2.513	14.1	21.0	7 20	22 33.45	-3 46.2	1.821	2.669	14.6	21.6
7 30	22 32.87	-23 29.6	1.569	2.515	10.7	20.8	7 30	22 29.54	-4 16.2	1.742	2.665	11.3	21.3
8 9	22 25.81	-24 42.4	1.536	2.518	7.4	20.6	8 9	22 23.68	-5 2.5	1.685	2.661	7.4	21.1
8 19	22 17.12	-25 47.7	1.526	2.520	5.6	20.5	8 19	22 16.42	-6 1.8	1.652	2.657	3.3	20.8
8 29	22 7.89	-26 37.1	1.543	2.523	7.1	20.6	8 29	22 8.59	-7 8.9	1.646	2.653	2.2	20.8
9 8	21 59.34	-27 5.4	1.585	2.526	10.3	20.8	9 8	22 1.16	-8 17.1	1.667	2.649	6.2	21.0
9 18	21 52.51	-27 10.7	1.649	2.528	13.7	21.0	9 18	21 55.03	-9 20.0	1.714	2.645	10.2	21.2
9 28	21 48.16	-26 54.4	1.734	2.531	16.6	21.2	9 28	21 50.90	-10 12.6	1.784	2.641	13.7	21.5
357179	2002 <i>ED</i> ₇₀		8 24.1 115 ^o .79	2 ^o .3/21.9 18			87882	2000 <i>SN</i> ₂₇₈		8 24.1 169 ^o .24	4 ^o .8/19.4 18		
7 20	22 37.32	-17 20.7	2.412	3.276	10.9	21.0	7 20	22 37.24	-24 11.3	2.223	3.097	11.3	19.0
7 30	22 31.84	-17 47.3	2.349	3.286	8.1	20.8	7 30	22 32.06	-25 1.6	2.160	3.098	8.6	18.8
8 9	22 24.78	-18 16.2	2.312	3.296	5.0	20.6	8 9	22 25.07	-25 50.4	2.122	3.098	6.1	18.7
8 19	22 16.70	-18 43.4	2.301	3.306	2.5	20.5	8 19	22 16.85	-26 32.0	2.109	3.099	4.8	18.6
8 29	22 8.32	-19 4.9	2.319	3.316	3.4	20.6	8 29	22 8.23	-27 1.0	2.125	3.099	5.9	18.7
9 8	22 0.43	-19 17.7	2.365	3.325	6.3	20.8	9 8	22 0.11	-27 14.0	2.166	3.100	8.4	18.8
9 18	21 53.70	-19 20.0	2.438	3.334	9.1	21.0	9 18	21 53.29	-27 10.0	2.233	3.100	11.1	19.0
9 28	21 48.67	-19 11.2	2.535	3.343	11.7	21.2	9 28	21 48.38	-26 49.6	2.322	3.100	13.5	19.2
405835	2006 <i>BB</i> ₁₇₉		8 24.1 326 ^o .85	1 ^o .2/25.1 18			168808	2000 <i>SD</i> ₁₄₇		8 24.1 357 ^o .83	2 ^o .0/22.9 18		
7 20	22 36.22	-7 10.2	2.272	3.115	12.2	20.4	7 20	22 37.39	-13 31.5	1.117	2.013	18.4	19.5
7 30	22 31.18	-7 3.0	2.192	3.113	9.4	20.2	7 30	22 33.51	-13 52.5	1.058	2.011	13.8	19.2
8 9	22 24.49	-7 4.4	2.135	3.111	6.1	20.0	8 9	22 26.60	-14 24.1	1.017	2.009	8.5	18.9
8 19	22 16.64	-7 12.7	2.104	3.110	2.6	19.8	8 19	22 17.49	-14 59.8	0.999	2.008	3.1	18.6
8 29	22 8.36	-7 25.1	2.102	3.108	1.9	19.7	8 29	22 7.60	-15 31.4	1.003	2.008	4.2	18.7
9 8	22 0.47	-7 38.3	2.127	3.106	5.3	19.9	9 8	21 58.57	-15 51.4	1.030	2.008	9.7	19.0
9 18	21 53.68	-7 49.3	2.180	3.105	8.7	20.1	9 18	21 51.78	-15 55.8	1.079	2.010	14.8	19.3
9 28	21 48.62	-7 55.6	2.257	3.103	11.6	20.3	9 28	21 48.15	-15 43.0	1.146	2.012	19.1	19.6
123847	2001 <i>CO</i> ₃₂		8 24.1 225 ^o .66	5 ^o .8/16.9 18			318344	2004 <i>TO</i> ₂₆₄		8 24.1 86 ^o .06	3 ^o .8/20.4 18		
7 20	22 36.58	-29 42.9	2.639	3.506	10.0	20.3	7 20	22 36.40	-21 30.5	2.285	3.158	11.1	20.6
7 30	22 31.46	-30 49.5	2.573	3.499	8.0	20.1	7 30	22 31.32	-22 11.2	2.223	3.163	8.3	20.4
8 9	22 24.66	-31 52.0	2.531	3.491	6.3	20.0	8 9	22 24.56	-22 51.9	2.186	3.167	5.5	20.3
8 19	22 16.70	-32 44.6	2.517	3.482	5.9	20.0	8 19	22 16.67	-23 27.7	2.175	3.172	3.8	20.1
8 29	22 8.30	-33 22.2	2.529	3.473	6.9	20.0	8 29	22 8.42	-23 53.7	2.192	3.177	4.9	20.2
9 8	22 0.27	-33 41.9	2.568	3.464	8.9	20.1	9 8	22 0.68	-24 6.8	2.237	3.182	7.5	20.4
9 18	21 53.36	-33 42.6	2.631	3.455	11.0	20.3	9 18	21 54.16	-24 5.5	2.306	3.187	10.2	20.6
9 28	21 48.18	-33 25.3	2.716	3.445	12.9	20.4	9 28	21 49.44	-23 50.0	2.399	3.192	12.7	20.8
514051	2014 <i>OE</i> ₁₁₁		8 24.1 19 ^o .40	5 ^o .0/18.3 18			347885	2002 <i>TB</i> ₁₆₉		8 24.1 355 ^o .52	2 ^o .9/23.4 18		
7 20	22 32.47	-21 57.8	2.089	2.973	11.6	20.6	7 20	22 42.66	-21 9.4	1.009	1.913	19.2	18.4
7 30	22 28.65	-23 30.9	2.030	2.975	8.7	20.4	7 30	22 37.83	-20 3.4	0.946	1.902	14.7	18.1
8 9	22 23.03	-25 5.6	1.997	2.977	6.1	20.2	8 9	22 29.42	-18 49.9	0.901	1.892	9.4	17.8
8 19	22 16.16	-26 34.6	1.990	2.979	5.0	20.2	8 19	22 18.47	-17 25.3	0.878	1.886	4.0	17.5
8 29	22 8.83	-27 50.3	2.010	2.982	6.4	20.3	8 29	22 6.70	-15 48.4	0.877	1.882	4.6	17.5
9 8	22 1.93	-28 47.7	2.056	2.985	9.0	20.4	9 8	21 56.09	-14 1.3	0.900	1.880	10.2	17.8
9 18	21 56.26	-29 23.9	2.127	2.988	11.8	20.6	9 18	21 48.20	-12 8.6	0.943	1.881	15.6	18.1
9 28	21 52.47	-29 39.0	2.218	2.992	14.2	20.8	9 28	21 44.01	-10 14.5	1.006			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
480613	2015 <i>MX</i> ₁₀₈		8 24.1 195°82	0°2/24.2	18		183367	2002 <i>XJ</i>		8 24.1 337°50	1°8/22.9	18	
7 20	22 36.38	- 9 6.6	1.983	2.839	13.2	21.1	7 20	22 31.53	-11 49.6	1.109	2.011	18.0	19.3
7 30	22 31.54	- 9 22.1	1.908	2.839	10.0	20.9	7 30	22 29.26	-12 27.4	1.040	1.996	13.6	19.0
8 9	22 24.82	- 9 47.3	1.856	2.839	6.3	20.7	8 9	22 24.09	-13 20.7	0.989	1.982	8.4	18.6
8 19	22 16.80	-10 18.7	1.830	2.838	2.2	20.4	8 19	22 16.71	-14 22.6	0.960	1.969	3.0	18.3
8 29	22 8.29	-10 52.1	1.831	2.838	2.0	20.4	8 29	22 8.37	-15 23.6	0.953	1.958	4.2	18.3
9 8	22 0.23	-11 22.8	1.860	2.837	6.1	20.7	9 8	22 0.62	-16 13.6	0.968	1.948	9.8	18.6
9 18	21 53.46	-11 47.0	1.915	2.837	9.8	20.9	9 18	21 54.89	-16 45.8	1.004	1.939	15.2	18.9
9 28	21 48.63	-12 1.9	1.993	2.836	13.1	21.1	9 28	21 52.22	-16 56.3	1.058	1.931	19.8	19.1
444109	2004 <i>TF</i> ₁₁₁		8 24.1 284°94	5°1/29.6	18		32965	1996 <i>PX</i> ₄		8 24.1 154°23	0°3/24.3	18	
7 20	22 32.65	+ 7 41.1	2.493	3.268	13.2	21.4	7 20	22 35.84	- 7 8.7	1.782	2.639	14.5	19.0
7 30	22 28.66	+ 7 40.0	2.375	3.237	11.1	21.2	7 30	22 31.33	- 7 49.8	1.711	2.642	10.9	18.8
8 9	22 23.06	+ 7 20.8	2.279	3.206	8.7	21.0	8 9	22 24.78	- 8 44.8	1.662	2.645	6.9	18.5
8 19	22 16.23	+ 6 42.9	2.206	3.175	6.3	20.8	8 19	22 16.82	- 9 49.1	1.639	2.647	2.4	18.3
8 29	22 8.77	+ 5 47.7	2.161	3.143	5.1	20.7	8 29	22 8.32	-10 56.5	1.642	2.649	2.2	18.2
9 8	22 1.41	+ 4 38.8	2.143	3.111	6.1	20.7	9 8	22 0.31	-12 0.1	1.673	2.651	6.6	18.5
9 18	21 54.86	+ 3 21.5	2.152	3.079	8.6	20.8	9 18	21 53.70	-12 54.3	1.730	2.653	10.6	18.8
9 28	21 49.82	+ 2 1.8	2.187	3.046	11.5	20.9	9 28	21 49.20	-13 35.3	1.809	2.655	14.1	19.0
82622	2001 <i>OL</i> ₁₀₂		8 24.1 339°02	1°7/25.6	18		261991	2006 <i>QJ</i> ₃₅		8 24.1 326°47	2°5/22.2	18	
7 20	22 32.87	- 3 46.5	1.812	2.662	14.6	19.1	7 20	22 32.41	-12 14.3	1.166	2.065	17.6	19.6
7 30	22 29.11	- 4 13.0	1.735	2.659	11.3	18.9	7 30	22 29.85	-13 14.2	1.095	2.050	13.2	19.3
8 9	22 23.42	- 4 55.5	1.679	2.656	7.4	18.7	8 9	22 24.44	-14 30.5	1.044	2.036	8.1	19.0
8 19	22 16.34	- 5 50.9	1.648	2.653	3.4	18.4	8 19	22 16.83	-15 55.1	1.014	2.023	3.2	18.7
8 29	22 8.73	- 6 54.2	1.644	2.650	2.3	18.4	8 29	22 8.25	-17 17.2	1.007	2.010	4.8	18.7
9 8	22 1.52	- 7 58.7	1.666	2.648	6.1	18.6	9 8	22 0.23	-18 25.5	1.024	1.998	10.2	19.0
9 18	21 55.60	- 8 58.4	1.714	2.646	10.1	18.8	9 18	21 54.15	-19 12.4	1.061	1.988	15.4	19.3
9 28	21 51.68	- 9 48.2	1.785	2.644	13.6	19.1	9 28	21 51.09	-19 34.5	1.117	1.978	19.9	19.5
425020	2009 <i>ES</i> ₃₀		8 24.1 110°62	0°8/24.7	17		21834	1999 <i>TL</i> ₉₆		8 24.1 38°62	5°5/20.5	18	
7 20	22 38.34	- 5 40.0	1.475	2.334	16.8	21.5	7 20	22 37.62	-19 11.1	1.104	2.008	17.9	17.7
7 30	22 33.45	- 6 19.5	1.416	2.346	12.8	21.3	7 30	22 33.52	-20 20.8	1.065	2.021	13.3	17.4
8 9	22 26.19	- 7 16.0	1.377	2.358	8.1	21.0	8 9	22 26.45	-21 34.3	1.046	2.036	8.6	17.2
8 19	22 17.29	- 8 24.7	1.362	2.369	3.1	20.8	8 19	22 17.40	-22 40.8	1.049	2.051	5.6	17.1
8 29	22 7.86	- 9 37.8	1.373	2.380	2.4	20.7	8 29	22 7.88	-23 29.6	1.075	2.067	7.3	17.3
9 8	21 59.14	-10 47.3	1.411	2.391	7.3	21.1	9 8	21 59.48	-23 54.4	1.123	2.083	11.5	17.6
9 18	21 52.17	-11 46.3	1.473	2.402	11.7	21.4	9 18	21 53.43	-23 53.6	1.193	2.100	15.7	17.9
9 28	21 47.72	-12 30.4	1.557	2.411	15.5	21.6	9 28	21 50.48	-23 29.3	1.280	2.118	19.2	18.1
395964	2013 <i>AR</i> ₁₇₄		8 24.1 162°03	2°2/26.6	18		11482	1988 <i>BW</i>		8 24.1 237°71	1°2/24.9	18	R
7 20	22 32.70	- 0 7.0	2.243	3.066	13.1	21.3	7 20	22 39.83	- 7 28.8	2.024	2.867	13.5	18.4
7 30	22 28.61	- 0 51.2	2.163	3.068	10.2	21.1	7 30	22 34.18	- 7 21.0	1.937	2.859	10.4	18.2
8 9	22 22.93	- 1 51.9	2.105	3.071	7.0	20.9	8 9	22 26.53	- 7 22.6	1.872	2.850	6.7	17.9
8 19	22 16.15	- 3 6.3	2.074	3.073	3.7	20.7	8 19	22 17.44	- 7 31.6	1.834	2.840	2.8	17.7
8 29	22 8.94	- 4 29.6	2.071	3.075	2.4	20.6	8 29	22 7.74	- 7 44.9	1.824	2.830	2.1	17.6
9 8	22 2.07	- 5 55.6	2.096	3.077	5.2	20.8	9 8	21 58.42	- 7 58.8	1.842	2.820	6.0	17.8
9 18	21 56.25	- 7 18.2	2.149	3.078	8.5	21.0	9 18	21 50.39	- 8 10.0	1.886	2.810	9.9	18.1
9 28	21 52.06	- 8 32.2	2.227	3.080	11.6	21.2	9 28	21 44.38	- 8 15.4	1.955	2.799	13.2	18.3
113080	2002 <i>RP</i> ₆₄		8 24.1 301°53	4°1/28.1	18		479702	2014 <i>DQ</i> ₁₁₆		8 24.1 240°37	2°3/22.5	18	
7 20	22 31.27	+ 3 36.0	1.823	2.644	15.7	19.7	7 20	22 42.24	-16 55.6	1.921	2.786	13.2	21.5
7 30	22 28.07	+ 3 11.7	1.725	2.624	12.8	19.4	7 30	22 36.07	-17 5.7	1.842	2.779	9.9	21.3
8 9	22 22.90	+ 2 24.3	1.647	2.604	9.3	19.2	8 9	22 27.73	-17 18.7	1.786	2.771	6.2	21.1
8 19	22 16.22	+ 1 14.6	1.593	2.584	5.9	18.9	8 19	22 17.84	-17 30.2	1.756	2.763	2.7	20.8
8 29	22 8.81	- 0 13.3	1.564	2.564	4.2	18.8	8 29	22 7.38	-17 35.7	1.754	2.755	3.6	20.9
9 8	22 1.64	- 1 52.3	1.562	2.544	6.5	18.9	9 8	21 57.43	-17 31.5	1.780	2.746	7.4	21.1
9 18	21 55.64	- 3 33.9	1.586	2.524	10.3	19.1	9 18	21 48.98	-17 16.1	1.832	2.738	11.2	21.3
9 28	21 51.63	- 5 9.7	1.634	2.505	14.1	19.3	9 28	21 42.80	-16 49.2	1.907	2.729	14.4	21.5
213943	2003 <i>WA</i> ₇₇		8 24.1 221°27	4°9/18.5	18		50621	2000 <i>EO</i> ₆₃		8 24.1 187°33	0°4/24.5	18	
7 20	22 37.97	-25 12.5	2.519	3.386	10.4	20.9	7 20	22 34.74	- 7 6.5	2.163	3.011	12.6	19.6
7 30	22 32.56	-26 17.8	2.443	3.376	8.0	20.7	7 30	22 30.21	- 7 42.3	2.085	3.011	9.5	19.4
8 9	22 25.41	-27 22.1	2.393	3.365	5.8	20.6	8 9	22 23.97	- 8 29.6	2.031	3.011	6.0	19.2
8 19	22 17.01	-28 19.5	2.370	3.353	4.9	20.5	8 19	22 16.54	- 9 24.9	2.002	3.010	2.2	19.0
8 29	22 8.10	-29 4.5	2.376	3.341	6.0	20.6	8 29	22 8.64	-10 23.1	2.002	3.009	1.8	18.9
9 8	21 59.54	-29 33.2	2.409	3.328	8.3	20.7	9 8	22 1.12	-11 19.0	2.030	3.007	5.7	19.2
9 18	21 52.10	-29 44.0	2.467	3.315	10.8	20.8	9 18	21 54.73	-12 8.0	2.085	3.006	9.2	19.4
9 28	21 46.43	-29 37.2	2.547	3.301	13.1	21.0	9 28	21 50.09	-12 46.6	2.164	3.004	12.3	19.6
170155	2003 <i>DU</i> ₁₇		8 24.1 235°85	1°1/25.1	16		48651	1995 <i>UC</i> ₅₄		8 24.1 184°80	0°4/23.7	18	
7 20	22 34.95	+ 1 33.4	1.204	2.058	20.2	19.8	7 20	22 39.47	-10 0.8	1.902	2.758	13.8	20.0
7 30	22 31.70	- 0 31.9	1.125	2.051	15.8	19.5	7 30	22 33.97	-10 31.0	1.827	2.758	10.3	19.8
8 9	22 25.60	- 3 18.7	1.065	2.044	10.3	19.1	8 9	22 26.40	-11 11.3	1.775	2.758	6.4	19.5
8 19	22 17.24	- 6 39.4	1.029	2.036	4.2	18.8	8 19	22 17.39	-11 57.4	1.748	2.757	2.1	19.3
8 29	22 7.81	-10 17.4	1.020	2.028	2.8	18.7	8 29	22 7.83	-12 43.9	1.750	2.756	2.4	19.3
9 8	21 58.83	-13 51.2	1.039	2.019	9.1	19.0	9 8	21 58.74	-13 25.2	1.779	2.754	6.6	19.6
9 18	21 51.73	-17 1.1	1.082	2.011	15.0	19.3	9 18	21 51.06	-13 57.2	1.835	2.751	10.6	19.8
9 28	21 47.65	-19 35.1	1.147	2.001	19.9	19.6	9 28	21 45.50	-14 17.2	1.914	2.748	13.9	20.0
266585	2008 <i>HE</i> ₃₅		8 24.1 93°33	2°5/21.9	17		478949	2012 <i>XS</i> ₄₆					

EPHEMERIDES

8 24.1

8 24.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
253409	2003 <i>QW</i> ₁₅		8 24.1 317°44	5°9/27.7	18		42077	2001 <i>AS</i> ₄		8 24.1 75°69	2°2/21.9	18	
7 20	22 35.88	+ 1 29.0	1.271	2.119	19.6	20.2	7 20	22 34.49	-11 51.4	1.708	2.583	14.2	18.1
7 30	22 32.25	+ 2 4.8	1.193	2.107	16.0	20.0	7 30	22 30.35	-13 15.5	1.653	2.596	10.4	17.9
8 9	22 25.86	+ 2 18.2	1.133	2.096	11.8	19.7	8 9	22 24.18	-14 50.3	1.621	2.610	6.3	17.7
8 19	22 17.34	+ 2 7.8	1.093	2.085	7.7	19.4	8 19	22 16.63	-16 28.4	1.615	2.623	2.6	17.5
8 29	22 7.82	+ 1 35.6	1.076	2.074	6.0	19.3	8 29	22 8.64	-18 0.8	1.636	2.636	3.9	17.6
9 8	21 58.76	+ 0 47.6	1.083	2.064	8.8	19.4	9 8	22 1.24	-19 20.0	1.684	2.650	7.8	17.9
9 18	21 51.51	- 0 8.0	1.111	2.054	13.2	19.7	9 18	21 55.30	-20 20.9	1.757	2.663	11.5	18.2
9 28	21 47.14	- 1 2.2	1.160	2.045	17.5	19.9	9 28	21 51.51	-21 1.4	1.852	2.676	14.7	18.4
332907	2011 <i>BP</i> ₇₈		8 24.1 108°00	1°3/23.1	17		350052	2010 <i>PQ</i> ₃₈		8 24.1 253°36	2°0/20.5	17	
7 20	22 38.73	-11 36.2	1.683	2.550	14.7	21.1	7 20	22 28.35	-20 36.3	4.529	5.393	6.2	20.5
7 30	22 33.49	-12 18.1	1.625	2.563	10.9	20.9	7 30	22 24.68	-21 5.0	4.452	5.388	4.6	20.4
8 9	22 26.10	-13 9.6	1.590	2.576	6.7	20.7	8 9	22 20.21	-21 33.8	4.402	5.383	3.0	20.3
8 19	22 17.27	-14 5.0	1.579	2.588	2.3	20.4	8 19	22 15.20	-22 0.8	4.381	5.379	2.0	20.2
8 29	22 8.00	-14 57.7	1.596	2.600	3.0	20.5	8 29	22 10.00	-22 23.6	4.388	5.374	2.6	20.2
9 8	21 59.39	-15 41.6	1.640	2.612	7.3	20.8	9 8	22 4.98	-22 40.6	4.425	5.369	4.1	20.4
9 18	21 52.40	-16 12.7	1.709	2.623	11.3	21.1	9 18	22 0.47	-22 50.6	4.490	5.365	5.8	20.5
9 28	21 47.70	-16 29.1	1.800	2.635	14.6	21.3	9 28	21 56.79	-22 52.9	4.579	5.360	7.3	20.6
167717	2004 <i>TM</i> ₂₆₀		8 24.1 106°92	3°2/21.9	17		262475	2006 <i>UJ</i> ₁₇₅		8 24.1 200°31	3°5/21.3	18	
7 20	22 40.74	-15 46.2	1.340	2.225	16.6	20.3	7 20	22 39.62	-17 6.8	1.671	2.548	14.3	20.5
7 30	22 35.59	-16 32.3	1.282	2.230	12.4	20.0	7 30	22 34.41	-18 1.7	1.603	2.546	10.7	20.2
8 9	22 27.69	-17 26.0	1.245	2.234	7.7	19.8	8 9	22 26.84	-19 2.5	1.558	2.544	6.7	20.0
8 19	22 17.87	-18 19.4	1.232	2.239	3.6	19.5	8 19	22 17.58	-20 2.0	1.537	2.541	3.7	19.8
8 29	22 7.41	-19 4.1	1.244	2.243	5.0	19.6	8 29	22 7.70	-20 52.6	1.544	2.538	5.0	19.9
9 8	21 57.79	-19 33.2	1.281	2.248	9.6	19.9	9 8	21 58.40	-21 28.2	1.576	2.535	8.9	20.1
9 18	21 50.23	-19 43.6	1.340	2.252	14.0	20.2	9 18	21 50.74	-21 45.8	1.633	2.531	12.7	20.3
9 28	21 45.57	-19 34.9	1.420	2.256	17.7	20.5	9 28	21 45.54	-21 44.6	1.711	2.527	16.1	20.5
424505	2008 <i>DK</i> ₇₈		8 24.1 193°86	1°3/22.9	17		171723	2000 <i>VG</i> ₁₃		8 24.1 268°20	5°8/19.5	18	
7 20	22 39.73	-12 10.0	1.896	2.756	13.6	22.5	7 20	22 40.38	-21 35.0	1.546	2.431	14.8	20.3
7 30	22 34.20	-12 49.9	1.820	2.754	10.2	22.3	7 30	22 35.49	-22 48.1	1.465	2.410	11.3	20.0
8 9	22 26.58	-13 38.7	1.767	2.752	6.2	22.0	8 9	22 27.83	-24 5.5	1.407	2.389	7.8	19.8
8 19	22 17.46	-14 31.4	1.740	2.749	2.2	21.8	8 19	22 18.03	-25 18.1	1.373	2.368	5.8	19.6
8 29	22 7.77	-15 21.8	1.742	2.745	3.0	21.8	8 29	22 7.22	-26 15.8	1.364	2.346	7.5	19.7
9 8	21 58.54	-16 4.3	1.771	2.741	7.1	22.1	9 8	21 56.85	-26 51.1	1.380	2.324	11.3	19.8
9 18	21 50.72	-16 34.9	1.826	2.735	11.0	22.3	9 18	21 48.24	-27 0.7	1.419	2.301	15.3	20.0
9 28	21 45.07	-16 51.5	1.904	2.730	14.3	22.5	9 28	21 42.44	-26 45.3	1.477	2.279	18.9	20.2
389181	2009 <i>BU</i> ₁₅₄		8 24.1 289°26	2°3/21.9	18		447126	2004 <i>VM</i> ₂₇		8 24.1 275°93	1°6/22.5	18	
7 20	22 34.69	-14 0.0	1.824	2.699	13.4	21.1	7 20	22 35.05	-14 33.6	2.343	3.207	11.2	21.5
7 30	22 30.54	-14 55.9	1.750	2.694	9.9	20.9	7 30	22 30.42	-15 1.9	2.257	3.194	8.3	21.3
8 9	22 24.35	-16 0.4	1.700	2.688	6.1	20.7	8 9	22 24.12	-15 35.5	2.195	3.181	5.1	21.0
8 19	22 16.71	-17 7.5	1.675	2.683	2.7	20.4	8 19	22 16.62	-16 10.6	2.160	3.167	2.1	20.8
8 29	22 8.49	-18 10.2	1.678	2.678	3.9	20.5	8 29	22 8.64	-16 42.7	2.152	3.154	2.9	20.9
9 8	22 0.71	-19 2.1	1.707	2.672	7.7	20.7	9 8	22 0.96	-17 7.9	2.173	3.140	6.2	21.1
9 18	21 54.30	-19 39.0	1.760	2.667	11.5	21.0	9 18	21 54.33	-17 23.3	2.220	3.126	9.5	21.2
9 28	21 49.98	-19 58.7	1.836	2.662	14.7	21.2	9 28	21 49.39	-17 27.3	2.291	3.112	12.3	21.4
444397	2005 <i>YL</i> ₂₇₆		8 24.1 242°03	2°9/26.9	18		218828	2006 <i>TG</i> ₇₉		8 24.1 63°30	3°2/26.6	17	
7 20	22 34.42	- 0 33.3	2.384	3.202	12.5	21.2	7 20	22 35.60	- 0 39.0	1.424	2.273	17.9	20.2
7 30	22 29.85	- 0 29.5	2.296	3.196	9.9	21.0	7 30	22 31.52	- 0 58.1	1.362	2.282	14.0	20.0
8 9	22 23.72	- 0 38.6	2.230	3.190	7.0	20.8	8 9	22 25.07	- 1 39.2	1.319	2.291	9.6	19.7
8 19	22 16.46	- 0 59.6	2.190	3.184	4.1	20.6	8 19	22 16.98	- 2 39.3	1.299	2.300	5.1	19.5
8 29	22 8.74	- 1 30.1	2.178	3.178	3.0	20.5	8 29	22 8.32	- 3 52.2	1.304	2.309	3.4	19.4
9 8	22 1.32	- 2 6.4	2.193	3.172	5.2	20.6	9 8	22 0.32	- 5 9.3	1.335	2.318	7.1	19.7
9 18	21 54.88	- 2 44.5	2.236	3.165	8.3	20.8	9 18	21 54.02	- 6 22.4	1.389	2.328	11.5	20.0
9 28	21 50.03	- 3 20.2	2.304	3.159	11.1	21.0	9 28	21 50.20	- 7 24.5	1.466	2.337	15.4	20.2
513455	2008 <i>YG</i> ₁₀₅		8 24.1 232°25	1°0/23.1	18		473374	2015 <i>UN</i> ₃₈		8 24.1 322°55	2°0/26.2	18	
7 20	22 35.26	-11 6.0	1.993	2.857	12.9	22.2	7 20	22 31.03	- 1 49.0	2.047	2.885	13.6	20.8
7 30	22 30.79	-11 50.4	1.915	2.851	9.6	22.0	7 30	22 27.59	- 2 21.3	1.961	2.877	10.6	20.6
8 9	22 24.44	-12 44.5	1.860	2.846	5.9	21.8	8 9	22 22.45	- 3 10.0	1.898	2.869	7.2	20.4
8 19	22 16.73	-13 43.7	1.832	2.840	2.0	21.5	8 19	22 16.07	- 4 12.5	1.860	2.862	3.6	20.2
8 29	22 8.49	-14 42.2	1.830	2.835	2.7	21.6	8 29	22 9.18	- 5 24.1	1.849	2.855	2.3	20.1
9 8	22 0.63	-15 34.0	1.857	2.829	6.6	21.8	9 8	22 2.60	- 6 38.8	1.866	2.848	5.6	20.3
9 18	21 54.01	-16 14.9	1.909	2.822	10.4	22.0	9 18	21 57.11	- 7 50.3	1.909	2.841	9.2	20.5
9 28	21 49.33	-16 42.0	1.984	2.816	13.6	22.2	9 28	21 53.36	- 8 53.2	1.976	2.835	12.5	20.7
188974	2008 <i>EB</i> ₅₅		8 24.1 248°37	4°4/19.9	18		318342	2004 <i>TG</i> ₂₄₉		8 24.1 281°36	0°1/24.2	18	
7 20	22 37.48	-23 4.7	2.231	3.104	11.3	21.0	7 20	22 33.65	- 8 51.1	2.306	3.159	11.8	21.1
7 30	22 32.31	-23 50.1	2.160	3.097	8.6	20.8	7 30	22 29.41	- 9 16.1	2.214	3.143	8.9	20.9
8 9	22 25.29	-24 35.0	2.112	3.091	5.9	20.6	8 9	22 23.53	- 9 50.6	2.145	3.126	5.6	20.7
8 19	22 17.00	-25 13.8	2.092	3.085	4.4	20.5	8 19	22 16.44	-10 31.5	2.102	3.110	1.9	20.4
8 29	22 8.25	-25 41.3	2.099	3.078	5.6	20.6	8 29	22 8.82	-11 14.8	2.087	3.094	1.8	20.4
9 8	21 59.94	-25 53.9	2.132	3.071	8.2	20.8	9 8	22 1.46	-11 55.9	2.101	3.077	5.6	20.6
9 18	21 52.90	-25 50.1	2.191	3.064	11.0	20.9	9 18	21 55.10	-12 30.9	2.141	3.061	9.1	20.8
9 28	21 47.77	-25 30.3	2.272	3.057	13.6	21.1	9 28	21 50.38	-12 56.7	2.205	3.044	12.1	21.0
333173	2012 <i>CR</i> ₅₃		8										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
103221	1999 YC ₅		8 24.1 354°70	3°3/20.7	18		481611	2007 TF ₄₄₆		8 24.1 318°56	1°7/22.7	18	
7 20	22 33.13	-14 39.2	1.762	2.643	13.5	19.2	7 20	22 35.07	-13 6.1	1.730	2.606	14.0	21.4
7 30	22 29.45	-16 14.9	1.696	2.643	10.0	19.0	7 30	22 30.94	-13 44.4	1.656	2.598	10.4	21.1
8 9	22 23.72	-18 0.3	1.654	2.642	6.2	18.8	8 9	22 24.67	-14 31.6	1.603	2.591	6.4	20.9
8 19	22 16.52	-19 47.4	1.637	2.642	3.4	18.6	8 19	22 16.88	-15 22.4	1.576	2.584	2.4	20.6
8 29	22 8.75	-21 26.9	1.648	2.642	5.0	18.7	8 29	22 8.48	-16 10.5	1.575	2.578	3.4	20.7
9 8	22 1.44	-22 50.6	1.686	2.641	8.7	18.9	9 8	22 0.54	-16 49.7	1.600	2.572	7.6	20.9
9 18	21 55.51	-23 53.5	1.748	2.641	12.3	19.2	9 18	21 54.03	-17 15.9	1.650	2.566	11.6	21.1
9 28	21 51.69	-24 33.6	1.831	2.642	15.4	19.4	9 28	21 49.72	-17 27.0	1.722	2.560	15.0	21.4
445530	2011 AS ₅₅		8 24.1 259°74	4°1/28.8	18		24861	1996 DE ₁		8 24.1 261°69	0°3/24.4	18	
7 20	22 33.19	+ 4 57.4	2.808	3.591	11.7	21.1	7 20	22 35.16	- 7 33.1	1.972	2.826	13.4	19.2
7 30	22 28.83	+ 5 0.5	2.699	3.570	9.6	21.0	7 30	22 30.82	- 8 5.1	1.884	2.813	10.2	19.0
8 9	22 23.07	+ 4 49.4	2.613	3.549	7.3	20.8	8 9	22 24.54	- 8 49.8	1.818	2.799	6.5	18.7
8 19	22 16.27	+ 4 24.3	2.552	3.528	5.1	20.6	8 19	22 16.83	- 9 43.4	1.778	2.786	2.3	18.4
8 29	22 8.98	+ 3 46.5	2.518	3.506	4.1	20.5	8 29	22 8.50	-10 40.9	1.765	2.772	2.0	18.4
9 8	22 1.84	+ 2 59.2	2.513	3.484	5.2	20.5	9 8	22 0.47	-11 36.3	1.779	2.757	6.3	18.6
9 18	21 55.46	+ 2 6.3	2.536	3.461	7.6	20.7	9 18	21 53.64	-12 24.5	1.820	2.743	10.2	18.8
9 28	21 50.41	+ 1 12.4	2.585	3.438	10.1	20.8	9 28	21 48.75	-13 1.3	1.884	2.728	13.7	19.0
446563	2014 OR ₈₀		8 24.1 7°34	1°1/23.2	18		213558	2002 LE ₁₀		8 24.1 98°08	1°8/22.6	17	
7 20	22 34.53	-12 42.9	1.887	2.758	13.2	20.6	7 20	22 38.08	-11 21.4	1.459	2.335	16.0	20.3
7 30	22 30.25	-13 2.3	1.819	2.759	9.8	20.4	7 30	22 33.33	-12 26.2	1.405	2.348	11.9	20.1
8 9	22 24.09	-13 28.9	1.773	2.760	6.0	20.2	8 9	22 26.17	-13 43.2	1.372	2.360	7.2	19.9
8 19	22 16.62	-13 58.6	1.753	2.762	2.1	20.0	8 19	22 17.37	-15 4.7	1.364	2.373	2.6	19.6
8 29	22 8.71	-14 26.5	1.760	2.765	2.7	20.0	8 29	22 8.06	-16 21.8	1.382	2.385	3.7	19.7
9 8	22 1.30	-14 48.2	1.794	2.768	6.6	20.3	9 8	21 59.50	-17 26.3	1.426	2.397	8.3	20.0
9 18	21 55.22	-15 0.6	1.852	2.771	10.3	20.5	9 18	21 52.73	-18 13.2	1.494	2.408	12.6	20.3
9 28	21 51.13	-15 1.7	1.934	2.775	13.5	20.7	9 28	21 48.51	-18 40.3	1.582	2.420	16.2	20.6
487378	2014 QR ₂₇₆		8 24.1 322°94	0°2/24.2	18		71425	2000 AC ₁₉₇		8 24.1 358°53	7°0/31.0	18	
7 20	22 35.38	- 9 48.4	2.283	3.136	11.9	21.5	7 20	22 33.76	+10 29.9	2.208	2.972	15.0	18.6
7 30	22 30.61	- 9 54.5	2.204	3.133	8.9	21.3	7 30	22 29.53	+11 9.7	2.126	2.972	12.8	18.5
8 9	22 24.19	-10 8.0	2.149	3.130	5.6	21.1	8 9	22 23.62	+11 30.2	2.063	2.971	10.4	18.3
8 19	22 16.65	-10 26.3	2.119	3.127	2.0	20.8	8 19	22 16.49	+11 30.1	2.022	2.971	8.3	18.2
8 29	22 8.68	-10 46.1	2.118	3.125	1.8	20.8	8 29	22 8.87	+11 9.7	2.007	2.971	7.1	18.1
9 8	22 1.08	-11 3.8	2.145	3.122	5.4	21.1	9 8	22 1.56	+10 32.1	2.017	2.971	7.6	18.1
9 18	21 54.58	-11 16.6	2.199	3.120	8.8	21.3	9 18	21 55.31	+ 9 42.0	2.053	2.971	9.5	18.3
9 28	21 49.78	-11 22.1	2.277	3.117	11.8	21.5	9 28	21 50.79	+ 8 45.5	2.112	2.972	11.8	18.4
59954	1999 RP ₂₂₆		8 24.1 4°11	4°1/28.1	18		469978	2006 FC		8 24.1 357°16	1°3/24.8	18	
7 20	22 33.38	+ 2 40.3	2.103	2.916	14.2	19.3	7 20	22 41.03	- 9 13.5	1.451	2.318	16.7	20.4
7 30	22 29.26	+ 2 45.5	2.023	2.916	11.4	19.2	7 30	22 35.67	- 8 42.2	1.381	2.315	12.8	20.2
8 9	22 23.43	+ 2 34.0	1.964	2.916	8.4	19.0	8 9	22 27.73	- 8 20.4	1.332	2.314	8.2	19.9
8 19	22 16.41	+ 2 6.4	1.929	2.916	5.5	18.8	8 19	22 17.95	- 8 6.1	1.306	2.313	3.3	19.6
8 29	22 8.91	+ 1 25.3	1.921	2.916	4.1	18.7	8 29	22 7.50	- 7 56.4	1.306	2.313	2.6	19.6
9 8	22 1.78	+ 0 35.2	1.940	2.917	5.9	18.8	9 8	21 57.73	- 7 47.6	1.331	2.313	7.4	19.9
9 18	21 55.76	- 0 18.7	1.985	2.917	8.9	19.0	9 18	21 49.80	- 7 36.7	1.381	2.314	12.0	20.1
9 28	21 51.49	- 1 10.9	2.054	2.918	11.9	19.2	9 28	21 44.57	- 7 21.0	1.452	2.315	16.0	20.4
204478	2005 AS ₅₄		8 24.1 195°90	11°5/11.4	18		150041	2005 WO ₁₆₃		8 24.1 70°49	4°1/28.2	18	
7 20	22 42.17	-41 25.9	1.886	2.741	13.9	19.7	7 20	22 35.19	+ 2 37.6	2.181	2.988	13.9	19.5
7 30	22 36.63	-43 18.0	1.848	2.741	12.3	19.6	7 30	22 30.41	+ 2 48.7	2.117	3.005	11.2	19.3
8 9	22 28.35	-44 54.6	1.832	2.740	11.6	19.5	8 9	22 24.04	+ 2 44.1	2.073	3.023	8.2	19.2
8 19	22 18.14	-46 6.0	1.839	2.739	11.8	19.5	8 19	22 16.60	+ 2 24.5	2.055	3.040	5.3	19.0
8 29	22 7.28	-46 44.8	1.869	2.738	13.0	19.6	8 29	22 8.83	+ 1 52.5	2.063	3.057	4.1	19.0
9 8	21 57.24	-46 48.8	1.919	2.737	14.7	19.7	9 8	22 1.52	+ 1 12.2	2.099	3.075	5.7	19.1
9 18	21 49.22	-46 20.2	1.988	2.736	16.6	19.9	9 18	21 55.38	+ 0 28.3	2.162	3.092	8.5	19.3
9 28	21 44.08	-45 23.9	2.073	2.735	18.2	20.0	9 28	21 50.94	- 0 14.4	2.250	3.109	11.2	19.5
171903	2001 RX ₁₃₁		8 24.1 230°39	1°8/22.5	18		511189	2013 YH ₁₁₁		8 24.1 187°28	3°6/27.0	18	
7 20	22 35.62	-13 52.4	2.025	2.894	12.5	20.3	7 20	22 39.14	- 0 21.0	2.066	2.882	14.2	21.6
7 30	22 31.01	-14 31.1	1.953	2.892	9.3	20.1	7 30	22 33.60	- 0 0.1	1.984	2.882	11.3	21.4
8 9	22 24.54	-15 16.6	1.905	2.891	5.7	19.9	8 9	22 26.17	+ 0 6.9	1.923	2.881	8.1	21.2
8 19	22 16.79	-16 4.1	1.882	2.890	2.3	19.6	8 19	22 17.38	+ 0 0.4	1.888	2.880	4.9	21.0
8 29	22 8.56	-16 48.1	1.887	2.888	3.2	19.7	8 29	22 8.06	- 0 17.4	1.881	2.879	3.7	20.9
9 8	22 0.78	-17 23.7	1.919	2.887	6.8	19.9	9 8	21 59.13	- 0 42.9	1.901	2.878	6.1	21.1
9 18	21 54.25	-17 47.5	1.977	2.885	10.3	20.1	9 18	21 51.45	- 1 11.8	1.948	2.876	9.4	21.3
9 28	21 49.65	-17 57.9	2.058	2.884	13.4	20.3	9 28	21 45.70	- 1 39.6	2.019	2.873	12.5	21.5
258896	2002 QW ₇₅		8 24.1 316°32	4°8/20.3	17		470161	2006 UR ₁₃₁		8 24.1 7°59	5°7/27.8	16	
7 20	22 34.60	-17 21.0	1.299	2.197	16.2	20.4	7 20	22 28.23	+ 0 28.1	0.896	1.784	22.6	20.9
7 30	22 31.33	-18 41.3	1.231	2.185	12.1	20.1	7 30	22 26.96	+ 0 55.3	0.846	1.785	18.1	20.6
8 9	22 25.30	-20 11.4	1.183	2.173	7.8	19.8	8 9	22 22.71	+ 0 52.7	0.811	1.787	13.0	20.4
8 19	22 17.17	-21 41.5	1.158	2.161	4.9	19.6	8 19	22 16.30	+ 0 20.6	0.794	1.792	8.0	20.1
8 29	22 8.16	-23 0.2	1.158	2.150	6.8	19.7	8 29	22 9.12	- 0 35.3	0.796	1.799	5.7	20.0
9 8	21 59.71	-23 57.8	1.181	2.139	11.2	19.9	9 8	22 2.79	- 1 44.6	0.819	1.808	9.1	20.3
9 18	21 53.15	-24 29.4	1.225	2.129	15.6	20.1	9 18	21 58.67	- 2 55.4	0.862	1.819	14.0	20.6
9 28	21 49.47	-24 34.0	1.288	2.119	19.5	20.4	9 28	21 57.66	- 3 57.1	0.923	1.832	18.6	20.9
169455	2002 CB ₁₄		8 24.1 106°08	0°4/23.8	17		519661	2012 WV ₃₆		8 24.1 31°92	5°6/18.7	18	
7 20	22 39.37	- 8 3.4	1.										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
254269	2004 <i>RA</i> ₁₈₈		8 24.1	8°76'	1°8/25.5	18	177136	2003 <i>KK</i> ₁₇		8 24.1	68°55'	3°4/27.8	18
7 20	22 35.84	- 5 58.1	1.863	2.714	14.2	19.5	7 20	22 32.50	+ 2 11.4	2.141	2.956	13.9	20.0
7 30	22 31.26	- 5 45.9	1.791	2.715	10.9	19.3	7 30	22 28.53	+ 1 52.8	2.068	2.964	11.1	19.8
8 9	22 24.74	- 5 45.0	1.740	2.716	7.2	19.1	8 9	22 22.95	+ 1 17.0	2.018	2.973	7.9	19.6
8 19	22 16.89	- 5 53.6	1.714	2.719	3.3	18.9	8 19	22 16.27	+ 0 25.7	1.991	2.983	4.8	19.5
8 29	22 8.56	- 6 8.5	1.715	2.721	2.3	18.8	8 29	22 9.21	- 0 37.2	1.992	2.992	3.4	19.4
9 8	22 0.70	- 6 25.7	1.743	2.724	6.0	19.1	9 8	22 2.54	- 1 46.2	2.021	3.001	5.5	19.6
9 18	21 54.19	- 6 41.4	1.796	2.728	9.8	19.3	9 18	21 56.98	- 2 55.7	2.077	3.010	8.5	19.8
9 28	21 49.69	- 6 52.1	1.873	2.732	13.1	19.5	9 28	21 53.09	- 4 0.2	2.157	3.019	11.5	20.0
493610	2015 <i>NY</i> ₈		8 24.1	248°18'	3°5/26.9	18	171192	2005 <i>JX</i> ₂₂		8 24.1	263°19'	4°9/29.1	18
7 20	22 37.42	- 0 42.3	2.088	2.909	14.0	21.2	7 20	22 33.12	+ 5 43.9	1.973	2.775	15.4	20.4
7 30	22 32.34	- 0 21.3	2.002	2.903	11.1	21.0	7 30	22 29.27	+ 5 34.4	1.885	2.768	12.6	20.2
8 9	22 25.41	- 0 13.7	1.937	2.897	7.9	20.8	8 9	22 23.58	+ 5 3.6	1.817	2.761	9.5	20.0
8 19	22 17.13	- 0 19.2	1.898	2.891	4.8	20.6	8 19	22 16.54	+ 4 12.0	1.773	2.754	6.5	19.8
8 29	22 8.30	- 0 35.6	1.886	2.885	3.6	20.5	8 29	22 8.92	+ 3 2.4	1.754	2.746	4.9	19.7
9 8	21 59.81	- 0 59.6	1.901	2.878	6.0	20.7	9 8	22 1.61	+ 1 40.9	1.763	2.739	6.5	19.8
9 18	21 52.49	- 1 26.9	1.943	2.872	9.3	20.9	9 18	21 55.46	+ 0 14.4	1.797	2.732	9.6	20.0
9 28	21 47.05	- 1 53.2	2.009	2.865	12.4	21.0	9 28	21 51.18	- 1 9.6	1.857	2.725	12.8	20.2
523177	2016 <i>TO</i> ₉₉		8 24.1	250°79'	1°0/25.0	18	421521	2014 <i>OC</i> ₁₁₀		8 24.1	279°29'	3°0/20.9	18
7 20	22 35.55	- 6 21.1	2.016	2.864	13.4	21.6	7 20	22 34.04	- 17 49.4	2.300	3.173	11.1	21.0
7 30	22 31.00	- 6 36.9	1.934	2.858	10.2	21.4	7 30	22 29.75	- 18 40.8	2.220	3.161	8.2	20.8
8 9	22 24.59	- 7 4.6	1.874	2.853	6.6	21.1	8 9	22 23.77	- 19 36.2	2.164	3.149	5.3	20.6
8 19	22 16.85	- 7 41.4	1.841	2.847	2.7	20.9	8 19	22 16.58	- 20 30.7	2.134	3.137	3.0	20.4
8 29	22 8.58	- 8 23.1	1.834	2.841	2.0	20.8	8 29	22 8.89	- 21 18.8	2.133	3.125	4.2	20.5
9 8	22 0.68	- 9 4.7	1.855	2.835	5.9	21.1	9 8	22 1.52	- 21 55.9	2.159	3.113	7.1	20.7
9 18	21 53.99	- 9 41.7	1.903	2.829	9.6	21.3	9 18	21 55.23	- 22 19.1	2.210	3.101	10.2	20.8
9 28	21 49.19	- 10 10.4	1.974	2.823	12.9	21.5	9 28	21 50.66	- 22 27.3	2.284	3.089	12.9	21.0
396162	2013 <i>EF</i> ₄₈		8 24.1	8°67'	3°4/27.7	18	172318	<i>Wangshui</i>		8 24.1	184°11'	0°3/24.4	18
7 20	22 29.57	+ 2 28.1	1.746	2.578	15.8	20.3	7 20	22 34.30	- 6 46.4	2.279	3.125	12.1	20.9
7 30	22 26.72	+ 1 47.2	1.672	2.580	12.6	20.1	7 30	22 29.85	- 7 31.6	2.200	3.125	9.2	20.7
8 9	22 22.00	+ 0 43.5	1.619	2.582	8.9	19.9	8 9	22 23.78	- 8 28.5	2.145	3.125	5.8	20.5
8 19	22 15.97	- 0 40.2	1.589	2.585	5.2	19.7	8 19	22 16.57	- 9 33.3	2.116	3.124	2.1	20.2
8 29	22 9.44	- 2 18.1	1.585	2.588	3.4	19.6	8 29	22 8.92	- 10 41.0	2.116	3.123	1.8	20.2
9 8	22 3.33	- 4 1.8	1.608	2.592	6.1	19.8	9 8	22 1.62	- 11 46.1	2.145	3.122	5.5	20.5
9 18	21 58.49	- 5 42.7	1.657	2.597	9.9	20.0	9 18	21 55.37	- 12 43.9	2.201	3.120	8.9	20.7
9 28	21 55.58	- 7 13.2	1.730	2.602	13.3	20.2	9 28	21 50.77	- 13 30.7	2.282	3.118	11.9	20.9
217368	2004 <i>TJ</i> ₇₉		8 24.1	335°82'	5°2/29.3	18	326312	1999 <i>TG</i> ₆₉		8 24.1	313°16'	4°4/27.3	18
7 20	22 31.90	+ 5 42.5	2.066	2.867	14.8	19.8	7 20	22 34.28	+ 0 40.5	1.352	2.201	18.6	20.4
7 30	22 28.25	+ 5 50.0	1.981	2.861	12.2	19.6	7 30	22 30.92	+ 0 44.2	1.273	2.190	15.0	20.2
8 9	22 22.88	+ 5 38.3	1.916	2.856	9.3	19.4	8 9	22 25.00	+ 0 24.4	1.212	2.179	10.7	19.9
8 19	22 16.27	+ 5 7.5	1.875	2.852	6.6	19.2	8 19	22 17.12	- 0 18.2	1.172	2.168	6.4	19.6
8 29	22 9.15	+ 4 19.8	1.859	2.847	5.2	19.1	8 29	22 8.35	- 1 19.7	1.156	2.158	4.5	19.5
9 8	22 2.34	+ 3 19.7	1.869	2.843	6.4	19.2	9 8	22 0.02	- 2 32.0	1.164	2.148	7.8	19.6
9 18	21 56.63	+ 2 13.2	1.906	2.839	9.2	19.4	9 18	21 53.36	- 3 46.1	1.196	2.139	12.5	19.9
9 28	21 52.67	+ 1 6.5	1.967	2.836	12.1	19.6	9 28	21 49.36	- 4 53.3	1.249	2.130	16.8	20.1
427688	2004 <i>ET</i>		8 24.1	137°55'	0°6/23.6	16	444110	2004 <i>TH</i> ₁₁₂		8 24.1	352°33'	12°5/15.3	17
7 20	22 39.77	- 10 27.5	1.799	2.658	14.3	22.1	7 20	22 42.14	- 40 36.9	1.479	2.350	16.2	19.6
7 30	22 34.22	- 10 59.3	1.735	2.668	10.7	21.9	7 30	22 37.00	- 41 36.0	1.431	2.340	14.2	19.4
8 9	22 26.58	- 11 40.9	1.693	2.677	6.6	21.7	8 9	22 28.71	- 42 16.9	1.402	2.332	12.8	19.3
8 19	22 17.52	- 12 27.6	1.677	2.686	2.2	21.4	8 19	22 18.31	- 42 29.2	1.394	2.325	12.6	19.3
8 29	22 8.01	- 13 13.7	1.689	2.694	2.5	21.5	8 29	22 7.37	- 42 5.8	1.408	2.320	13.8	19.4
9 8	21 59.09	- 13 53.5	1.728	2.702	6.8	21.8	9 8	21 57.60	- 41 5.8	1.442	2.316	15.7	19.5
9 18	21 51.69	- 14 23.0	1.793	2.710	10.7	22.0	9 18	21 50.30	- 39 33.3	1.496	2.314	18.0	19.6
9 28	21 46.50	- 14 40.0	1.881	2.717	14.0	22.2	9 28	21 46.25	- 37 35.5	1.566	2.313	20.2	19.8
240199	2002 <i>RN</i> ₇₅		8 24.1	70°25'	0°1/24.1	18	83623	2001 <i>SK</i> ₃₁₂		8 24.1	348°94'	1°7/22.7	18
7 20	22 39.29	- 10 29.0	1.778	2.638	14.3	19.7	7 20	22 35.14	- 13 17.4	1.748	2.623	13.8	19.3
7 30	22 33.83	- 10 33.1	1.716	2.649	10.8	19.5	7 30	22 30.93	- 13 51.7	1.678	2.621	10.3	19.1
8 9	22 26.31	- 10 45.7	1.676	2.660	6.7	19.2	8 9	22 24.65	- 14 34.2	1.631	2.618	6.3	18.8
8 19	22 17.42	- 11 3.4	1.662	2.671	2.3	19.0	8 19	22 16.91	- 15 19.7	1.608	2.616	2.4	18.6
8 29	22 8.12	- 11 21.9	1.675	2.682	2.2	19.0	8 29	22 8.63	- 16 2.2	1.612	2.615	3.3	18.6
9 8	21 59.47	- 11 36.9	1.715	2.693	6.5	19.3	9 8	22 0.85	- 16 36.0	1.642	2.613	7.4	18.9
9 18	21 52.34	- 11 45.2	1.781	2.704	10.4	19.6	9 18	21 54.50	- 16 57.5	1.697	2.612	11.3	19.1
9 28	21 47.42	- 11 44.8	1.869	2.715	13.7	19.8	9 28	21 50.31	- 17 4.7	1.773	2.612	14.6	19.3
36910	2000 <i>SS</i> ₁₈₇		8 24.1	338°83'	1°1/22.9	18	94586	2001 <i>VM</i> ₄₈		8 24.1	313°46'	3°2/21.9	18
7 20	22 30.85	- 9 31.3	1.763	2.636	13.8	17.9	7 20	22 34.37	- 13 32.9	1.131	2.031	17.9	19.3
7 30	22 27.75	- 10 39.3	1.688	2.629	10.4	17.7	7 30	22 31.57	- 14 30.7	1.057	2.013	13.5	19.0
8 9	22 22.70	- 12 1.3	1.635	2.622	6.3	17.4	8 9	22 25.71	- 15 43.9	1.002	1.995	8.4	18.7
8 19	22 16.24	- 13 31.4	1.607	2.616	2.1	17.2	8 19	22 17.44	- 17 4.3	0.969	1.977	3.7	18.4
8 29	22 9.19	- 15 1.7	1.606	2.610	3.0	17.2	8 29	22 8.04	- 18 20.2	0.958	1.960	5.4	18.4
9 8	22 2.54	- 16 24.2	1.632	2.605	7.2	17.5	9 8	21 59.15	- 19 20.7	0.970	1.944	10.9	18.7
9 18	21 57.16	- 17 32.6	1.682	2.600	11.2	17.7	9 18	21 52.32	- 19 58.3	1.003	1.928	16.2	18.9
9 28	21 53.81	- 18 22.9	1.755	2.596	14.7	17.9	9 28	21 48.69	- 20 10.0	1.054	1.913	20.9	19.1

EPHEMERIDES

8 24.1

8 24.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
472419	2015 <i>BU</i> ₂₆₃		8 24.1 162°11	5°5/29.0	17		395946	2013 <i>AF</i> ₁₂₇		8 24.1 178°43	2°7/21.3	18	
7 20	22 38.82	+ 5 48.9	1.998	2.787	15.6	21.5	7 20	22 36.31	-17 18.9	2.306	3.173	11.2	21.8
7 30	22 33.42	+ 6 4.9	1.920	2.793	12.8	21.3	7 30	22 31.36	-18 6.9	2.236	3.174	8.3	21.6
8 9	22 26.09	+ 6 1.5	1.862	2.798	9.8	21.1	8 9	22 24.74	-18 58.7	2.190	3.175	5.2	21.4
8 19	22 17.40	+ 5 38.5	1.828	2.803	6.9	21.0	8 19	22 16.95	-19 49.1	2.171	3.175	2.8	21.3
8 29	22 8.17	+ 4 58.1	1.821	2.807	5.5	20.9	8 29	22 8.75	-20 33.2	2.181	3.175	3.9	21.4
9 8	21 59.37	+ 4 4.8	1.840	2.810	6.9	21.0	9 8	22 0.96	-21 6.5	2.219	3.175	6.9	21.6
9 18	21 51.86	+ 3 4.6	1.887	2.813	9.7	21.2	9 18	21 54.31	-21 26.6	2.283	3.174	9.9	21.7
9 28	21 46.34	+ 2 3.9	1.957	2.815	12.7	21.4	9 28	21 49.42	-21 32.6	2.370	3.174	12.5	21.9
22034	1999 <i>XL</i> ₁₆₈		8 24.1 158°18	0°1/24.1	18 A		233032	2005 <i>EM</i> ₂₉₂		8 24.1 50°94	3°2/21.2	17	
7 20	22 38.56	- 9 54.9	1.983	2.838	13.3	18.0	7 20	22 34.80	-15 13.4	1.616	2.499	14.4	19.9
7 30	22 33.20	-10 7.0	1.911	2.840	10.0	17.8	7 30	22 30.70	-16 28.9	1.569	2.516	10.6	19.8
8 9	22 25.93	-10 27.9	1.861	2.843	6.3	17.6	8 9	22 24.49	-17 51.3	1.545	2.533	6.5	19.6
8 19	22 17.34	-10 54.1	1.837	2.845	2.2	17.3	8 19	22 16.88	-19 12.8	1.545	2.551	3.4	19.4
8 29	22 8.27	-11 21.4	1.841	2.848	2.1	17.3	8 29	22 8.88	-20 25.1	1.573	2.569	4.8	19.5
9 8	21 59.69	-11 45.4	1.873	2.850	6.1	17.6	9 8	22 1.56	-21 21.6	1.626	2.587	8.5	19.8
9 18	21 52.45	-12 2.7	1.931	2.851	9.9	17.8	9 18	21 55.83	-21 58.8	1.703	2.605	12.1	20.1
9 28	21 47.21	-12 11.0	2.013	2.853	13.1	18.1	9 28	21 52.33	-22 15.9	1.801	2.624	15.1	20.3
266070	2006 <i>RK</i> ₁₉		8 24.1 322°03	2°4/22.7	18		37513	5068 <i>T</i> ₋₂		8 24.1 47°66	1°0/24.7	18	
7 20	22 34.46	-13 43.8	1.139	2.039	17.8	20.4	7 20	22 43.43	- 9 29.5	1.388	2.253	17.3	17.8
7 30	22 31.67	-14 11.5	1.060	2.015	13.5	20.0	7 30	22 37.19	- 9 4.5	1.343	2.277	13.1	17.6
8 9	22 25.82	-14 51.5	0.999	1.991	8.5	19.7	8 9	22 28.48	- 8 50.0	1.318	2.300	8.2	17.4
8 19	22 17.51	-15 37.5	0.959	1.968	3.3	19.3	8 19	22 18.22	- 8 43.3	1.317	2.325	3.2	17.1
8 29	22 7.99	-16 20.5	0.942	1.946	4.6	19.3	8 29	22 7.67	- 8 40.5	1.342	2.349	2.4	17.2
9 8	21 58.93	-16 51.6	0.947	1.925	10.3	19.6	9 8	21 58.15	- 8 37.7	1.393	2.374	7.2	17.5
9 18	21 51.87	-17 4.7	0.973	1.905	15.8	19.8	9 18	21 50.69	- 8 31.7	1.469	2.400	11.6	17.8
9 28	21 48.04	-16 57.1	1.017	1.887	20.7	20.0	9 28	21 45.94	- 8 20.2	1.566	2.425	15.2	18.1
246321	2007 <i>TR</i> ₁₈₁		8 24.1 1°29	6°4/19.0	18		232856	2004 <i>TD</i> ₂₀₈		8 24.1 193°94	0°2/23.9	18	
7 20	22 31.97	-21 23.4	1.256	2.163	16.0	19.4	7 20	22 36.31	- 8 53.8	1.869	2.728	13.8	21.4
7 30	22 29.30	-22 47.2	1.204	2.161	12.1	19.2	7 30	22 31.70	- 9 28.8	1.795	2.727	10.4	21.2
8 9	22 23.97	-24 14.2	1.173	2.160	8.3	19.0	8 9	22 25.12	-10 15.5	1.743	2.726	6.5	21.0
8 19	22 16.73	-25 33.4	1.164	2.160	6.5	18.9	8 19	22 17.13	-11 9.4	1.716	2.725	2.2	20.7
8 29	22 8.84	-26 34.3	1.178	2.161	8.3	19.0	8 29	22 8.60	-12 4.9	1.718	2.724	2.2	20.7
9 8	22 1.71	-27 9.5	1.215	2.164	12.0	19.2	9 8	22 0.51	-12 55.9	1.746	2.722	6.5	21.0
9 18	21 56.52	-27 16.7	1.272	2.168	15.8	19.5	9 18	21 53.77	-13 37.8	1.800	2.721	10.4	21.2
9 28	21 54.10	-26 57.1	1.348	2.173	19.1	19.7	9 28	21 49.06	-14 7.2	1.877	2.719	13.8	21.4
426086	2012 <i>DM</i> ₄₃		8 24.1 235°88	0°1/24.2	17		180361	2003 <i>YS</i> ₉₃		8 24.1 240°22	3°1/21.6	18	
7 20	22 37.74	- 8 8.7	1.471	2.339	16.4	21.8	7 20	22 38.21	-15 18.5	1.613	2.491	14.7	20.4
7 30	22 33.26	- 8 39.5	1.400	2.337	12.4	21.5	7 30	22 33.56	-16 20.4	1.539	2.483	11.0	20.2
8 9	22 26.30	- 9 25.2	1.350	2.334	7.8	21.2	8 9	22 26.50	-17 31.2	1.487	2.475	6.8	19.9
8 19	22 17.54	-10 21.2	1.323	2.332	2.7	20.9	8 19	22 17.66	-18 43.7	1.461	2.466	3.4	19.7
8 29	22 8.06	-11 20.3	1.322	2.329	2.5	20.9	8 29	22 8.07	-19 49.4	1.460	2.457	4.8	19.8
9 8	21 59.16	-12 15.1	1.347	2.326	7.7	21.2	9 8	21 58.98	-20 40.8	1.486	2.448	9.0	20.0
9 18	21 51.95	-12 59.2	1.395	2.323	12.3	21.5	9 18	21 51.49	-21 13.7	1.535	2.439	13.1	20.2
9 28	21 47.32	-13 28.7	1.466	2.320	16.3	21.7	9 28	21 46.48	-21 26.3	1.606	2.429	16.6	20.4
215430	2002 <i>JJ</i> ₈₄		8 24.1 110°34	2°4/22.4	17		294879	2008 <i>CX</i> ₂₁₂		8 24.1 111°49	2°3/26.9	18	
7 20	22 40.66	-14 4.9	1.484	2.360	15.8	21.0	7 20	22 32.42	+ 1 11.8	2.242	3.059	13.2	20.9
7 30	22 35.28	-14 50.1	1.428	2.371	11.7	20.8	7 30	22 28.45	+ 0 15.0	2.166	3.068	10.4	20.7
8 9	22 27.42	-15 43.7	1.394	2.381	7.2	20.5	8 9	22 22.93	- 0 59.7	2.113	3.076	7.1	20.5
8 19	22 17.87	-16 38.7	1.384	2.391	3.0	20.3	8 19	22 16.34	- 2 28.9	2.086	3.084	3.8	20.3
8 29	22 7.82	-17 27.4	1.400	2.401	4.1	20.4	8 29	22 9.36	- 4 7.3	2.088	3.092	2.4	20.2
9 8	21 58.54	-18 3.5	1.442	2.411	8.5	20.7	9 8	22 2.74	- 5 48.1	2.118	3.100	5.1	20.4
9 18	21 51.13	-18 23.4	1.508	2.420	12.7	21.0	9 18	21 57.17	- 7 24.6	2.177	3.107	8.4	20.6
9 28	21 46.35	-18 26.2	1.595	2.429	16.2	21.2	9 28	21 53.20	- 8 51.3	2.262	3.115	11.4	20.8
223386	2003 <i>SP</i> ₇₇		8 24.1 340°19	1°4/25.2	18		315090	2007 <i>DS</i> ₈₈		8 24.1 145°70	0°3/23.8	18	
7 20	22 36.13	- 7 7.9	2.039	2.888	13.2	19.4	7 20	22 32.82	- 8 44.7	2.441	3.293	11.2	21.1
7 30	22 31.41	- 6 55.4	1.958	2.882	10.1	19.2	7 30	22 28.65	- 9 35.1	2.368	3.297	8.4	20.9
8 9	22 24.85	- 6 52.2	1.900	2.877	6.6	19.0	8 9	22 23.01	-10 35.1	2.318	3.301	5.2	20.7
8 19	22 16.99	- 6 56.7	1.867	2.872	2.9	18.7	8 19	22 16.36	-11 40.6	2.296	3.304	1.7	20.5
8 29	22 8.64	- 7 6.0	1.861	2.868	2.1	18.7	8 29	22 9.34	-12 46.9	2.302	3.308	1.9	20.5
9 8	22 0.67	- 7 16.7	1.883	2.863	5.7	18.9	9 8	22 2.65	-13 48.8	2.338	3.311	5.3	20.8
9 18	21 53.92	- 7 25.5	1.931	2.860	9.4	19.1	9 18	21 56.94	-14 42.3	2.400	3.315	8.5	21.0
9 28	21 49.05	- 7 29.5	2.003	2.856	12.6	19.3	9 28	21 52.75	-15 24.6	2.487	3.318	11.2	21.2
150518	2000 <i>RK</i> ₈₅		8 24.1 26°88	1°1/23.5	16		494494	2016 <i>WP</i> ₄₅		8 24.1 340°92	7°4/17.4	18	
7 20	22 38.30	-12 33.0	1.241	2.128	17.5	18.8	7 20	22 37.89	-29 12.0	1.849	2.730	13.0	21.1
7 30	22 33.82	-12 39.8	1.190	2.138	13.1	18.6	7 30	22 33.10	-30 22.4	1.793	2.727	10.3	20.9
8 9	22 26.64	-12 56.2	1.159	2.148	8.1	18.3	8 9	22 26.05	-31 27.6	1.759	2.724	8.1	20.8
8 19	22 17.64	-13 16.9	1.150	2.159	2.7	18.1	8 19	22 17.46	-32 19.5	1.749	2.721	7.4	20.7
8 29	22 8.13	-13 35.8	1.165	2.171	3.2	18.1	8 29	22 8.33	-32 51.2	1.765	2.719	8.7	20.8
9 8	21 59.54	-13 47.1	1.204	2.183	8.4	18.5	9 8	21 59.83	-32 58.9	1.805	2.716	11.1	20.9
9 18	21 53.02	-13 47.4	1.266	2.197	13.0	18.8	9 18	21 52.96	-32 42.4	1.868	2.714	13.8	21.1
9 28	21 49.35	-13 35.2	1.349	2.211	17.0	19.1	9 28	21 48.44	-32 4.0	1.950	2.713	16.2	21.3
44521	1998 <i>XZ</i> ₉₃		8 24.1 288°84	4°9/28.2	18		261235	2005 <i>UC</i> ₄₆					

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8 24.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
137394	1999 <i>TK</i> ₁₆₂		8 24.1 292°45	2°9/22.0	18		80556	2000 <i>AB</i> ₉₅		8 24.2 163°00	1°7/25.4	18	
7 20	22 36.94	-14 20.9	1.409	2.295	15.9	20.1	7 20	22 39.98	-5 26.8	1.709	2.556	15.5	19.5
7 30	22 33.00	-15 12.6	1.330	2.278	12.0	19.8	7 30	22 34.59	-5 27.6	1.636	2.558	11.9	19.2
8 9	22 26.38	-16 15.4	1.272	2.261	7.5	19.5	8 9	22 26.99	-5 41.9	1.585	2.561	7.8	19.0
8 19	22 17.69	-17 22.4	1.237	2.244	3.3	19.2	8 19	22 17.82	-6 7.2	1.558	2.563	3.5	18.7
8 29	22 8.05	-18 24.5	1.227	2.227	4.8	19.3	8 29	22 8.07	-6 39.4	1.559	2.565	2.4	18.7
9 8	21 58.86	-19 13.2	1.242	2.211	9.5	19.5	9 8	21 58.86	-7 13.1	1.586	2.566	6.6	18.9
9 18	21 51.42	-19 43.1	1.279	2.194	14.2	19.7	9 18	21 51.18	-7 43.4	1.639	2.568	10.7	19.2
9 28	21 46.73	-19 51.8	1.337	2.178	18.3	20.0	9 28	21 45.81	-8 6.3	1.714	2.569	14.3	19.4
219120	1998 <i>SR</i> ₁₂₀		8 24.1 313°94	3°3/21.9	18		151313	2002 <i>CN</i> ₁₀₇		8 24.2 198°79	0°8/25.1	18	
7 20	22 36.33	-15 43.7	1.299	2.192	16.5	19.9	7 20	22 32.09	-4 21.1	2.347	3.186	12.0	20.4
7 30	22 32.77	-16 23.3	1.220	2.171	12.5	19.6	7 30	22 28.21	-5 16.5	2.265	3.185	9.2	20.2
8 9	22 26.35	-17 12.3	1.160	2.151	7.9	19.2	8 9	22 22.81	-6 25.5	2.208	3.184	5.9	20.0
8 19	22 17.71	-18 3.7	1.124	2.131	3.7	18.9	8 19	22 16.35	-7 44.5	2.177	3.183	2.4	19.8
8 29	22 8.03	-18 48.5	1.111	2.112	5.2	19.0	8 29	22 9.45	-9 8.2	2.174	3.181	1.6	19.7
9 8	21 58.82	-19 18.6	1.122	2.093	10.1	19.2	9 8	22 2.86	-10 30.7	2.201	3.180	5.2	20.0
9 18	21 51.49	-19 29.4	1.155	2.075	15.0	19.4	9 18	21 57.24	-11 46.6	2.256	3.178	8.5	20.2
9 28	21 47.11	-19 19.1	1.207	2.058	19.3	19.7	9 28	21 53.16	-12 51.5	2.335	3.177	11.5	20.4
92263	2000 <i>BC</i> ₁₇		8 24.1 291°21	1°4/25.4	18		65147	2002 <i>CN</i> ₁₁₆		8 24.2 94°75	4°6/19.2	18	
7 20	22 35.56	-6 1.1	2.266	3.107	12.4	19.6	7 20	22 35.29	-22 35.7	2.192	3.069	11.4	19.2
7 30	22 30.86	-5 57.8	2.179	3.098	9.5	19.4	7 30	22 30.73	-23 44.2	2.134	3.074	8.6	19.1
8 9	22 24.49	-6 4.2	2.115	3.089	6.3	19.2	8 9	22 24.41	-24 52.8	2.100	3.079	5.9	18.9
8 19	22 16.91	-6 18.6	2.076	3.080	2.8	18.9	8 19	22 16.89	-25 55.4	2.092	3.084	4.6	18.8
8 29	22 8.84	-6 38.2	2.066	3.072	2.0	18.8	8 29	22 8.96	-26 45.7	2.113	3.088	5.8	18.9
9 8	22 1.09	-6 59.4	2.083	3.063	5.3	19.1	9 8	22 1.51	-27 19.8	2.159	3.093	8.4	19.1
9 18	21 54.40	-7 18.9	2.127	3.054	8.7	19.3	9 18	21 55.29	-27 35.7	2.231	3.098	11.1	19.3
9 28	21 49.39	-7 33.5	2.196	3.046	11.8	19.4	9 28	21 50.92	-27 33.7	2.324	3.103	13.5	19.5
461825	2006 <i>BP</i> ₇₆		8 24.1 31°58	0°2/24.1	17		36777	2000 <i>RP</i> ₁₀₄		8 24.2 180°19	6°6/30.4	18	
7 20	22 41.71	-11 41.5	0.991	1.885	20.3	20.1	7 20	22 36.98	+9 17.9	2.065	2.835	15.7	18.7
7 30	22 36.87	-11 23.9	0.945	1.895	15.4	19.8	7 30	22 32.11	+9 42.8	1.982	2.836	13.3	18.5
8 9	22 28.76	-11 17.5	0.917	1.906	9.6	19.5	8 9	22 25.35	+9 47.1	1.918	2.837	10.6	18.3
8 19	22 18.43	-11 18.2	0.909	1.918	3.3	19.2	8 19	22 17.25	+9 29.6	1.878	2.837	8.0	18.2
8 29	22 7.52	-11 19.9	0.924	1.931	3.1	19.3	8 29	22 8.59	+8 51.6	1.863	2.837	6.7	18.1
9 8	21 57.83	-11 17.1	0.961	1.945	9.2	19.7	9 8	22 0.28	+7 57.1	1.874	2.836	7.5	18.2
9 18	21 50.73	-11 6.4	1.020	1.959	14.5	20.0	9 18	21 53.17	+6 51.9	1.912	2.835	9.8	18.3
9 28	21 47.05	-10 45.7	1.097	1.974	18.9	20.3	9 28	21 47.95	+5 42.9	1.974	2.833	12.5	18.5
84263	2002 <i>TZ</i> ₄		8 24.2 3°44	2°3/22.5	18		15025	<i>Uwontario</i>		8 24.2 234°17	2°7/21.2	18	
7 20	22 35.00	-12 39.0	1.246	2.139	17.1	19.1	7 20	22 35.44	-18 36.9	2.574	3.440	10.2	19.1
7 30	22 31.54	-13 30.0	1.187	2.138	12.8	18.9	7 30	22 30.62	-19 15.1	2.496	3.433	7.6	18.9
8 9	22 25.39	-14 33.7	1.147	2.138	7.9	18.6	8 9	22 24.26	-19 55.5	2.443	3.426	4.9	18.7
8 19	22 17.30	-15 42.5	1.129	2.138	3.0	18.3	8 19	22 16.84	-20 34.1	2.417	3.419	2.8	18.6
8 29	22 8.50	-16 46.8	1.136	2.139	4.3	18.4	8 29	22 9.00	-21 6.5	2.420	3.412	3.8	18.6
9 8	22 0.42	-17 38.0	1.167	2.141	9.3	18.7	9 8	22 1.50	-21 29.1	2.451	3.404	6.5	18.8
9 18	21 54.28	-18 10.6	1.220	2.144	14.0	19.0	9 18	21 55.00	-21 39.9	2.508	3.396	9.2	19.0
9 28	21 50.96	-18 22.3	1.292	2.147	18.1	19.3	9 28	21 50.08	-21 38.0	2.589	3.388	11.7	19.1
86472	2000 <i>CZ</i> ₇₆		8 24.2 229°88	1°4/23.2	18		116476	2004 <i>BE</i> ₄		8 24.2 247°23	1°0/23.1	18	
7 20	22 41.90	-13 29.4	1.798	2.661	14.1	20.1	7 20	22 34.93	-10 56.3	2.094	2.955	12.5	20.1
7 30	22 36.07	-13 45.4	1.717	2.652	10.6	19.9	7 30	22 30.59	-11 44.2	2.010	2.945	9.3	19.9
8 9	22 27.95	-14 8.2	1.658	2.643	6.6	19.6	8 9	22 24.42	-12 41.9	1.950	2.935	5.7	19.6
8 19	22 18.16	-14 33.4	1.625	2.634	2.4	19.3	8 19	22 16.94	-13 45.1	1.916	2.924	2.0	19.4
8 29	22 7.68	-14 55.8	1.620	2.624	3.0	19.3	8 29	22 8.89	-14 47.8	1.910	2.914	2.6	19.4
9 8	21 57.68	-15 10.8	1.641	2.613	7.4	19.6	9 8	22 1.16	-15 44.4	1.931	2.903	6.5	19.6
9 18	21 49.20	-15 15.4	1.689	2.602	11.5	19.8	9 18	21 54.58	-16 30.3	1.980	2.892	10.1	19.8
9 28	21 43.06	-15 7.9	1.759	2.591	15.0	20.0	9 28	21 49.83	-17 2.5	2.051	2.881	13.3	20.0
415787	2000 <i>WK</i> ₁₃₉		8 24.2 296°68	5°3/27.6	18		188892	2006 <i>XM</i> ₁₉		8 24.2 285°44	2°3/22.4	18	R
7 20	22 36.09	+1 18.6	1.359	2.203	18.8	20.7	7 20	22 36.66	-13 9.3	1.511	2.391	15.4	20.4
7 30	22 32.45	+1 40.5	1.272	2.184	15.3	20.5	7 30	22 32.64	-14 0.7	1.429	2.374	11.6	20.2
8 9	22 26.11	+1 40.1	1.203	2.166	11.2	20.2	8 9	22 26.09	-15 4.0	1.368	2.357	7.2	19.9
8 19	22 17.64	+1 16.5	1.154	2.147	7.1	19.9	8 19	22 17.61	-16 12.7	1.332	2.340	2.9	19.6
8 29	22 8.09	+0 32.2	1.130	2.129	5.4	19.7	8 29	22 8.23	-17 18.5	1.321	2.323	4.2	19.6
9 8	21 58.85	-0 26.6	1.129	2.111	8.4	19.9	9 8	21 59.25	-18 13.0	1.335	2.306	8.9	19.8
9 18	21 51.27	-1 31.5	1.151	2.093	12.9	20.1	9 18	21 51.87	-18 50.8	1.373	2.288	13.4	20.1
9 28	21 46.43	-2 33.4	1.194	2.076	17.4	20.3	9 28	21 47.08	-19 8.8	1.432	2.271	17.4	20.3
136812	1997 <i>GH</i> ₁₇		8 24.2 78°88	0°8/24.7	17		316798	1999 <i>TL</i> ₃₀₀		8 24.2 284°48	2°1/26.4	18	
7 20	22 39.91	-6 58.5	1.472	2.332	16.8	20.5	7 20	22 32.46	-1 55.3	2.197	3.029	13.0	21.0
7 30	22 34.60	-7 18.9	1.420	2.352	12.7	20.3	7 30	22 28.63	-2 19.7	2.109	3.021	10.2	20.8
8 9	22 26.95	-7 53.8	1.390	2.371	8.0	20.1	8 9	22 23.15	-2 58.9	2.043	3.012	6.9	20.6
8 19	22 17.75	-8 38.4	1.383	2.391	3.0	19.8	8 19	22 16.49	-3 50.7	2.003	3.004	3.5	20.3
8 29	22 8.16	-9 26.7	1.403	2.410	2.3	19.8	8 29	22 9.33	-4 51.3	1.990	2.995	2.3	20.2
9 8	21 59.38	-10 11.7	1.448	2.429	7.1	20.2	9 8	22 2.45	-5 55.1	2.006	2.987	5.3	20.4
9 18	21 52.41	-10 48.4	1.518	2.447	11.4	20.5	9 18	21 56.60	-6 57.0	2.048	2.979	8.8	20.6
9 28	21 47.97	-11 13.2	1.610	2.466	15.0	20.7	9 28	21 52.40	-7 52.0	2.114	2.970	11.9	20.8
24439	<i>Yanney</i>		8 24.2 341°51	6°2/31.4	18		337984	2002					

EPHEMERIDES

8 24.2

8 24.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
395006	2009 <i>BX</i> ₁₃₇	8 24.2 292° 97'		1.8°/22.5 18			215417	2002 <i>GU</i> ₁₀₃	8 24.2 113° 27'		1.7°/22.8 17		
7 20	22 34.61	-12 0.8	1.746	2.619	14.0	21.1	7 20	22 37.23	-10 13.9	1.470	2.344	16.0	20.6
7 30	22 30.85	-12 57.8	1.653	2.594	10.5	20.8	7 30	22 32.83	-11 27.9	1.411	2.353	11.9	20.3
8 9	22 24.88	-14 7.5	1.582	2.569	6.5	20.5	8 9	22 26.03	-12 56.2	1.373	2.361	7.3	20.1
8 19	22 17.18	-15 24.2	1.536	2.544	2.5	20.2	8 19	22 17.54	-14 31.2	1.360	2.369	2.6	19.8
8 29	22 8.63	-16 40.3	1.517	2.519	3.6	20.3	8 29	22 8.46	-16 3.0	1.373	2.376	3.6	19.9
9 8	22 0.32	-17 48.0	1.524	2.494	8.0	20.5	9 8	22 0.05	-17 22.5	1.412	2.384	8.3	20.2
9 18	21 53.32	-18 41.2	1.556	2.469	12.3	20.7	9 18	21 53.35	-18 23.6	1.476	2.391	12.7	20.5
9 28	21 48.53	-19 16.0	1.610	2.444	16.1	20.8	9 28	21 49.18	-19 3.5	1.560	2.398	16.3	20.7
63371	2001 <i>HN</i> ₁₈	8 24.2		8.78° 1.2°/23.2 18			445805	2012 <i>BH</i> ₇₆	8 24.2 281° 09'		0.9°/24.9 17		
7 20	22 35.20	-11 42.6	1.636	2.511	14.6	19.0	7 20	22 36.80	-7 42.8	2.205	3.051	12.5	21.7
7 30	22 31.11	-12 18.7	1.570	2.512	10.9	18.8	7 30	22 31.90	-7 41.0	2.114	3.037	9.6	21.5
8 9	22 24.87	-13 4.8	1.525	2.513	6.7	18.5	8 9	22 25.23	-7 48.0	2.046	3.024	6.2	21.2
8 19	22 17.10	-13 55.9	1.505	2.514	2.3	18.3	8 19	22 17.26	-8 1.9	2.004	3.010	2.5	21.0
8 29	22 8.79	-14 45.3	1.511	2.516	3.0	18.3	8 29	22 8.74	-8 19.6	1.990	2.997	1.8	20.9
9 8	22 1.03	-15 26.8	1.543	2.518	7.4	18.6	9 8	22 0.51	-8 37.5	2.004	2.983	5.6	21.1
9 18	21 54.78	-15 56.0	1.600	2.520	11.5	18.8	9 18	21 53.39	-8 52.3	2.045	2.970	9.2	21.3
9 28	21 50.79	-16 10.4	1.678	2.523	15.0	19.1	9 28	21 48.04	-9 1.1	2.110	2.957	12.3	21.5
326608	2002 <i>RS</i> ₅₂	8 24.2 337° 45'		4.7°/21.5 18			23290	2000 <i>YQ</i> ₁₂₇	8 24.2 328° 87'		1.6°/23.2 18		
7 20	22 32.14	-17 46.3	0.995	1.911	18.4	19.4	7 20	22 36.14	-13 17.4	1.392	2.278	16.1	18.1
7 30	22 30.23	-18 22.4	0.926	1.889	14.0	19.1	7 30	22 32.36	-13 32.8	1.315	2.263	12.1	17.8
8 9	22 25.07	-19 6.5	0.876	1.870	9.0	18.8	8 9	22 25.97	-13 57.5	1.259	2.248	7.6	17.5
8 19	22 17.36	-19 50.0	0.845	1.851	4.9	18.5	8 19	22 17.61	-14 26.4	1.225	2.234	2.7	17.2
8 29	22 8.50	-20 22.0	0.835	1.835	6.7	18.5	8 29	22 8.40	-14 53.0	1.216	2.221	3.5	17.2
9 8	22 0.29	-20 33.8	0.846	1.820	11.9	18.8	9 8	21 59.71	-15 11.2	1.232	2.209	8.5	17.5
9 18	21 54.36	-20 21.3	0.876	1.807	17.3	19.0	9 18	21 52.77	-15 16.8	1.270	2.198	13.3	17.7
9 28	21 51.86	-19 44.1	0.922	1.796	21.9	19.3	9 28	21 48.53	-15 7.5	1.329	2.187	17.4	17.9
28828	Aalimiharandi	8 24.2 228° 28'		0.8°/23.5 18			126396	2002 <i>BV</i> ₄	8 24.2 229° 17'		7.3°/17.8 18		
7 20	22 39.48	-11 12.8	1.854	2.714	13.9	18.9	7 20	22 42.77	-29 30.0	1.921	2.792	13.0	19.4
7 30	22 34.22	-11 39.0	1.772	2.705	10.5	18.7	7 30	22 36.79	-30 35.4	1.856	2.784	10.4	19.2
8 9	22 26.80	-12 14.6	1.712	2.696	6.5	18.4	8 9	22 28.44	-31 35.6	1.814	2.776	8.1	19.1
8 19	22 17.80	-12 55.4	1.678	2.687	2.2	18.1	8 19	22 18.40	-32 22.5	1.796	2.768	7.3	19.0
8 29	22 8.14	-13 35.8	1.671	2.677	2.6	18.1	8 29	22 7.74	-32 49.0	1.806	2.759	8.6	19.1
9 8	21 58.89	-14 10.5	1.692	2.666	7.0	18.4	9 8	21 57.69	-32 51.4	1.840	2.749	11.1	19.2
9 18	21 51.04	-14 35.3	1.739	2.655	11.0	18.6	9 18	21 49.32	-32 29.6	1.897	2.740	13.8	19.4
9 28	21 45.37	-14 47.8	1.808	2.644	14.5	18.8	9 28	21 43.42	-31 46.2	1.975	2.730	16.3	19.5
390908	2005 <i>EQ</i> ₉₆	8 24.2 179° 23'		3.1°/27.3 18			73086	2002 <i>GY</i> ₁₇	8 24.2 108° 47'		3.2°/26.8 18		
7 20	22 37.48	+ 0 21.8	2.441	3.247	12.6	21.8	7 20	22 38.37	- 0 23.8	1.528	2.366	17.4	19.6
7 30	22 32.15	+ 0 25.4	2.356	3.249	10.0	21.7	7 30	22 33.54	- 0 39.8	1.465	2.379	13.7	19.4
8 9	22 25.23	+ 0 15.8	2.295	3.250	7.1	21.5	8 9	22 26.41	- 1 16.5	1.423	2.390	9.4	19.2
8 19	22 17.20	- 0 6.0	2.259	3.250	4.3	21.3	8 19	22 17.68	- 2 11.2	1.403	2.402	5.1	19.0
8 29	22 8.73	- 0 37.6	2.252	3.250	3.2	21.2	8 29	22 8.42	- 3 18.3	1.409	2.413	3.4	18.9
9 8	22 0.58	- 1 15.3	2.273	3.250	5.2	21.4	9 8	21 59.81	- 4 29.9	1.442	2.424	6.9	19.1
9 18	21 53.46	- 1 55.2	2.322	3.248	8.1	21.6	9 18	21 52.86	- 5 38.5	1.499	2.435	11.0	19.4
9 28	21 47.95	- 2 33.0	2.397	3.247	10.9	21.7	9 28	21 48.33	- 6 37.6	1.580	2.445	14.8	19.7
99317	2001 <i>TN</i> ₇₄	8 24.2 315° 06'		1.1°/23.2 18			293051	2006 <i>WW</i> ₁₀₉	8 24.2 298° 35'		5.9°/19.5 18		
7 20	22 34.75	-11 47.7	1.872	2.741	13.4	19.5	7 20	22 37.17	-20 51.9	1.414	2.307	15.4	20.2
7 30	22 30.62	-12 20.4	1.794	2.733	10.0	19.3	7 30	22 33.23	-22 12.2	1.345	2.295	11.7	20.0
8 9	22 24.52	-13 2.3	1.739	2.726	6.2	19.1	8 9	22 26.56	-23 37.5	1.297	2.282	8.0	19.7
8 19	22 17.00	-13 48.8	1.709	2.718	2.1	18.8	8 19	22 17.83	-24 57.9	1.273	2.270	5.9	19.6
8 29	22 8.92	-14 34.4	1.706	2.711	2.8	18.8	8 29	22 8.23	-26 2.9	1.274	2.258	7.7	19.6
9 8	22 1.24	-15 13.5	1.730	2.704	6.9	19.1	9 8	21 59.18	-26 44.4	1.298	2.246	11.5	19.8
9 18	21 54.86	-15 42.0	1.779	2.697	10.7	19.3	9 18	21 51.99	-26 59.2	1.345	2.234	15.5	20.0
9 28	21 50.49	-15 57.3	1.851	2.691	14.1	19.5	9 28	21 47.62	-26 47.7	1.409	2.222	19.1	20.2
2238	Steshenko	8 24.2		1.77° 0.8°/23.5 18			164694	1997 <i>UC</i> ₁₆	8 24.2 349° 59'		0.5°/23.9 17		
7 20	22 33.29	-11 9.3	1.643	2.520	14.5	16.4	7 20	22 36.58	- 9 59.2	1.134	2.023	18.6	20.4
7 30	22 29.67	-11 33.5	1.576	2.518	10.9	16.2	7 30	22 33.03	-10 17.8	1.071	2.019	14.1	20.1
8 9	22 23.98	-12 7.6	1.530	2.518	6.7	15.9	8 9	22 26.51	-10 51.5	1.026	2.016	8.9	19.8
8 19	22 16.81	-12 47.3	1.509	2.518	2.3	15.7	8 19	22 17.82	-11 35.1	1.003	2.013	3.0	19.4
8 29	22 9.12	-13 26.7	1.514	2.519	2.7	15.7	8 29	22 8.28	-12 20.5	1.004	2.010	3.1	19.4
9 8	22 1.96	-14 0.1	1.544	2.522	7.1	16.0	9 8	21 59.48	-12 59.3	1.027	2.009	9.0	19.8
9 18	21 56.25	-14 23.3	1.599	2.524	11.2	16.2	9 18	21 52.79	-13 25.3	1.072	2.008	14.3	20.1
9 28	21 52.72	-14 33.6	1.675	2.528	14.7	16.5	9 28	21 49.19	-13 35.0	1.136	2.008	18.8	20.4
399652	2004 <i>RW</i> ₁₅₃	8 24.2 358° 02'		7.7°/31.8 17			358774	2008 <i>DK</i> ₃₈	8 24.2 138° 74'		2.8°/21.4 18		
7 20	22 22.44	+ 9 58.1	1.244	2.076	20.9	19.3	7 20	22 38.47	-19 17.7	2.569	3.431	10.4	21.6
7 30	22 22.08	+ 9 53.5	1.174	2.068	17.7	19.1	7 30	22 32.77	-19 49.1	2.506	3.441	7.7	21.4
8 9	22 19.53	+ 9 12.8	1.119	2.062	14.0	18.8	8 9	22 25.55	-20 21.6	2.468	3.450	4.9	21.3
8 19	22 15.34	+ 7 55.1	1.083	2.058	10.3	18.6	8 19	22 17.32	-20 50.9	2.458	3.460	2.9	21.1
8 29	22 10.47	+ 6 4.4	1.068	2.057	7.9	18.5	8 29	22 8.80	-21 13.2	2.477	3.468	3.7	21.2
9 8	22 6.11	+ 3 51.4	1.076	2.058	8.7	18.5	9 8	22 0.74	-21 25.5	2.524	3.477	6.3	21.4
9 18	22 3.27	+ 1 29.8	1.107	2.061	11.9	18.7	9 18	21 53.78	-21 26.5	2.598	3.485	9.0	21.6
9 28	22 2.81	- 0 46.0	1.159	2.067	15.7	19.0	9 28	21 48.48	-21 15.9	2.696	3.492	11.4	21.8
290786	2005 <i>VA</i> ₄₄	8 24.2 278° 70'		1.7°/22.5 18			511486	2014 <i>NZ</i>	8 24.2 106° 37'		3.5°/27.9 18		
7 20	22 3												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
189955	2003 <i>UQ</i> ₆₀		8 24.2 309°90	4°0/20.3	18		401281	2012 <i>CU</i> ₅₃		8 24.2 251°65	2°6/21.2	18	
7 20	22 35.19	-21 6.6	2.157	3.034	11.5	19.7	7 20	22 33.14	-15 48.4	2.307	3.178	11.1	20.5
7 30	22 30.81	-21 53.8	2.081	3.023	8.7	19.5	7 30	22 29.13	-16 56.1	2.234	3.175	8.2	20.3
8 9	22 24.59	-22 42.3	2.029	3.011	5.8	19.3	8 9	22 23.50	-18 9.8	2.186	3.172	5.1	20.1
8 19	22 17.08	-23 26.9	2.003	3.000	4.0	19.2	8 19	22 16.73	-19 23.9	2.165	3.169	2.7	20.0
8 29	22 9.05	-24 1.8	2.004	2.990	5.2	19.2	8 29	22 9.51	-20 32.4	2.172	3.166	3.9	20.0
9 8	22 1.40	-24 22.8	2.032	2.979	8.0	19.4	9 8	22 2.62	-21 30.2	2.207	3.163	6.9	20.2
9 18	21 54.96	-24 28.0	2.085	2.969	11.0	19.5	9 18	21 56.78	-22 13.6	2.268	3.160	9.9	20.4
9 28	21 50.40	-24 16.8	2.160	2.959	13.7	19.7	9 28	21 52.59	-22 41.1	2.352	3.157	12.6	20.6
390766	2003 <i>TT</i> ₃₈		8 24.2 158°52	3°9/21.3	18		264868	2002 <i>RJ</i> ₂₀₀		8 24.2 310°81	3°8/26.6	18	
7 20	22 43.22	-21 29.3	1.979	2.846	12.8	21.2	7 20	22 34.23	-1 41.2	1.300	2.161	18.5	19.8
7 30	22 36.79	-21 52.3	1.913	2.849	9.7	21.0	7 30	22 31.30	-1 31.5	1.207	2.133	14.9	19.5
8 9	22 28.27	-22 14.7	1.870	2.851	6.4	20.8	8 9	22 25.62	-1 43.3	1.132	2.106	10.5	19.2
8 19	22 18.33	-22 31.1	1.854	2.854	4.0	20.7	8 19	22 17.69	-2 16.3	1.078	2.078	5.8	18.8
8 29	22 7.96	-22 36.6	1.866	2.856	5.0	20.8	8 29	22 8.53	-3 7.2	1.047	2.052	4.1	18.6
9 8	21 58.23	-22 28.3	1.906	2.858	8.1	20.9	9 8	21 59.56	-4 8.7	1.040	2.025	8.3	18.8
9 18	21 50.07	-22 5.6	1.971	2.860	11.3	21.2	9 18	21 52.22	-5 12.0	1.055	1.999	13.5	19.0
9 28	21 44.14	-21 29.3	2.058	2.861	14.2	21.4	9 28	21 47.70	-6 8.5	1.089	1.975	18.4	19.2
448043	2008 <i>EQ</i> ₁₆₂		8 24.2 126°88	3°1/27.8	18		13758	1998 <i>SN</i> ₇₄		8 24.2 182°51	2°1/22.2	18	
7 20	22 33.26	+ 2 6.7	2.384	3.192	12.8	21.7	7 20	22 36.23	-14 13.3	1.958	2.828	12.8	18.3
7 30	22 29.04	+ 1 43.5	2.307	3.200	10.2	21.5	7 30	22 31.66	-15 3.1	1.888	2.828	9.5	18.1
8 9	22 23.35	+ 1 4.6	2.253	3.207	7.3	21.3	8 9	22 25.16	-16 0.1	1.841	2.828	5.9	17.8
8 19	22 16.63	+ 0 11.6	2.224	3.215	4.4	21.2	8 19	22 17.33	-16 58.9	1.821	2.828	2.5	17.6
8 29	22 9.54	- 0 51.9	2.223	3.222	3.1	21.1	8 29	22 8.99	-17 53.1	1.828	2.828	3.6	17.7
9 8	22 2.80	- 2 0.8	2.250	3.229	5.0	21.2	9 8	22 1.10	-18 37.4	1.862	2.827	7.2	17.9
9 18	21 57.05	- 3 10.1	2.305	3.236	7.9	21.4	9 18	21 54.52	-19 8.1	1.921	2.827	10.7	18.2
9 28	21 52.83	- 4 14.6	2.385	3.242	10.7	21.6	9 28	21 49.92	-19 23.5	2.003	2.826	13.8	18.4
10906	1997 <i>WO</i> ₄₄		8 24.2 115°98	2°9/26.9	18		199532	2006 <i>DX</i> ₁₉₆		8 24.2 175°39	4°6/27.9	18	
7 20	22 38.61	- 0 39.8	1.952	2.775	14.7	18.5	7 20	22 39.27	+ 2 24.2	2.026	2.831	14.9	20.3
7 30	22 33.25	- 0 48.0	1.888	2.791	11.6	18.3	7 30	22 33.85	+ 2 50.2	1.945	2.833	12.1	20.1
8 9	22 26.03	- 1 12.3	1.844	2.808	8.0	18.1	8 9	22 26.52	+ 3 0.2	1.886	2.834	8.9	19.9
8 19	22 17.57	- 1 50.3	1.826	2.823	4.4	18.0	8 19	22 17.81	+ 2 54.1	1.851	2.835	5.9	19.8
8 29	22 8.71	- 2 38.2	1.836	2.838	3.1	17.9	8 29	22 8.54	+ 2 33.8	1.842	2.835	4.6	19.7
9 8	22 0.40	- 3 30.5	1.873	2.853	5.8	18.1	9 8	21 59.67	+ 2 2.8	1.862	2.835	6.5	19.8
9 18	21 53.42	- 4 22.0	1.937	2.867	9.3	18.3	9 18	21 52.06	+ 1 26.0	1.907	2.835	9.5	20.0
9 28	21 48.43	- 5 7.7	2.026	2.881	12.4	18.6	9 28	21 46.40	+ 0 48.6	1.977	2.835	12.6	20.2
347269	2011 <i>KH</i> ₃₀		8 24.2 358°59	9°9/15.8	18		24422	Helentressa		8 24.2 153°60	0°7/24.8	18	
7 20	22 32.41	-28 0.6	1.217	2.126	16.2	18.7	7 20	22 36.53	- 5 24.3	1.601	2.457	15.8	18.7
7 30	22 29.98	-29 57.6	1.171	2.122	13.0	18.5	7 30	22 32.22	- 6 8.9	1.531	2.460	12.1	18.5
8 9	22 24.64	-31 50.3	1.146	2.120	10.5	18.4	8 9	22 25.68	- 7 10.8	1.482	2.462	7.7	18.3
8 19	22 17.21	-33 25.2	1.143	2.118	10.0	18.4	8 19	22 17.54	- 8 25.2	1.457	2.464	3.0	18.0
8 29	22 9.03	-34 30.4	1.162	2.118	11.9	18.5	8 29	22 8.79	- 9 45.0	1.459	2.466	2.2	17.9
9 8	22 1.68	-34 59.4	1.201	2.119	15.0	18.7	9 8	22 0.56	-11 1.9	1.488	2.468	6.9	18.2
9 18	21 56.45	-34 52.0	1.260	2.122	18.2	18.9	9 18	21 53.85	-12 9.0	1.541	2.470	11.3	18.5
9 28	21 54.22	-34 12.2	1.334	2.125	21.0	19.1	9 28	21 49.46	-13 1.2	1.617	2.471	15.1	18.7
354701	2005 <i>QV</i> ₁₈₉		8 24.2 341°74	0°9/23.4	18		133381	2003 <i>SW</i> ₁₅₃		8 24.2 32°14	5°3/20.5	18	
7 20	22 33.81	-10 57.6	1.788	2.659	13.8	20.9	7 20	22 33.90	-16 12.9	0.942	1.856	19.3	18.6
7 30	22 30.01	-11 31.9	1.714	2.653	10.3	20.6	7 30	22 31.19	-17 50.9	0.909	1.872	14.2	18.4
8 9	22 24.21	-12 16.5	1.662	2.648	6.4	20.4	8 9	22 25.36	-19 37.8	0.895	1.888	9.0	18.1
8 19	22 16.99	-13 6.8	1.635	2.644	2.2	20.1	8 19	22 17.43	-21 20.0	0.901	1.906	5.4	18.0
8 29	22 9.21	-13 56.8	1.635	2.640	2.6	20.2	8 29	22 8.99	-22 43.5	0.930	1.925	7.5	18.2
9 8	22 1.87	-14 40.7	1.661	2.636	6.9	20.4	9 8	22 1.70	-23 38.9	0.980	1.945	12.1	18.5
9 18	21 55.86	-15 13.9	1.712	2.633	10.8	20.6	9 18	21 56.82	-24 3.3	1.050	1.966	16.5	18.9
9 28	21 51.91	-15 33.6	1.785	2.630	14.3	20.9	9 28	21 55.11	-23 58.3	1.137	1.987	20.3	19.2
324952	2007 <i>YR</i> ₄₃		8 24.2 92°27	1°0/24.9	18		237160	2008 <i>UP</i> ₁₁₄		8 24.2 0°96	1°7/23.0	18	
7 20	22 41.03	- 7 14.5	1.486	2.345	16.7	20.6	7 20	22 37.88	-13 29.7	1.560	2.437	15.1	20.5
7 30	22 35.58	- 7 21.0	1.427	2.357	12.7	20.4	7 30	22 33.30	-13 54.3	1.493	2.436	11.3	20.3
8 9	22 27.71	- 7 41.2	1.389	2.369	8.1	20.2	8 9	22 26.37	-14 27.0	1.448	2.436	7.0	20.1
8 19	22 18.20	- 8 11.3	1.374	2.381	3.2	19.9	8 19	22 17.78	-15 2.5	1.427	2.436	2.6	19.8
8 29	22 8.17	- 8 45.9	1.386	2.393	2.3	19.9	8 29	22 8.60	-15 34.7	1.432	2.436	3.4	19.8
9 8	21 58.90	- 9 19.1	1.424	2.405	7.1	20.2	9 8	22 0.03	-15 58.0	1.463	2.437	7.9	20.1
9 18	21 51.44	- 9 46.0	1.486	2.416	11.5	20.5	9 18	21 53.11	-16 8.9	1.518	2.438	12.1	20.4
9 28	21 46.55	-10 2.8	1.571	2.427	15.3	20.7	9 28	21 48.64	-16 5.6	1.594	2.439	15.7	20.6
304374	2006 <i>SB</i> ₃₇₈		8 24.2 247°05	0°2/24.4	18		284558	2007 <i>SZ</i> ₂₁		8 24.2 268°47	2°9/27.3	18	
7 20	22 35.01	- 8 5.6	2.095	2.947	12.8	21.3	7 20	22 33.05	+ 1 26.6	1.992	2.814	14.5	20.6
7 30	22 30.65	- 8 35.7	2.013	2.941	9.7	21.1	7 30	22 29.36	+ 0 48.0	1.898	2.801	11.6	20.3
8 9	22 24.51	- 9 16.8	1.954	2.935	6.1	20.9	8 9	22 23.82	- 0 10.9	1.825	2.787	8.1	20.1
8 19	22 17.10	-10 5.4	1.921	2.929	2.2	20.6	8 19	22 16.91	- 1 28.1	1.778	2.774	4.6	19.9
8 29	22 9.16	-10 56.7	1.916	2.923	1.9	20.6	8 29	22 9.36	- 2 58.9	1.757	2.760	3.0	19.7
9 8	22 1.57	-11 45.4	1.938	2.916	5.9	20.8	9 8	22 2.08	- 4 36.0	1.764	2.746	5.8	19.9
9 18	21 55.12	-12 27.1	1.987	2.909	9.5	21.0	9 18	21 55.90	- 6 11.9	1.799	2.733	9.6	20.1
9 28	21 50.48	-12 58.4	2.060	2.903	12.7	21.2	9 28	21 51.55	- 7 39.5	1.857	2.719	13.1	20.3
314591	2006 <i>AB</i> ₂₆		8 24.2 115°32	3°5/20.2	18		270387	2002 <i>AY</i> ₁₂₉		8 24.2 127°64			

EPHEMERIDES

8 24.2

8 24.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
340429	2006 <i>FB</i> ₃₂		8 24.2 299°50	3°3/21.6	18		185645	6733 <i>P-L</i>		8 24.2 3°06	2°3/25.9	16	
7 20	22 38.15	-17 34.2	1.697	2.576	14.0	20.8	7 20	22 25.91	-2 3.9	0.968	1.861	20.8	19.0
7 30	22 33.45	-18 14.1	1.625	2.569	10.5	20.6	7 30	22 25.21	-2 42.7	0.912	1.859	16.2	18.7
8 9	22 26.46	-18 58.8	1.575	2.561	6.7	20.3	8 9	22 21.76	-3 51.9	0.873	1.858	10.8	18.4
8 19	22 17.83	-19 42.0	1.550	2.554	3.6	20.1	8 19	22 16.28	-5 26.1	0.853	1.859	5.0	18.1
8 29	22 8.56	-20 17.2	1.551	2.547	4.8	20.2	8 29	22 10.03	-7 14.6	0.855	1.863	3.0	18.0
9 8	21 59.81	-20 38.8	1.578	2.540	8.6	20.4	9 8	22 4.49	-9 3.3	0.878	1.868	8.4	18.4
9 18	21 52.62	-20 44.1	1.630	2.534	12.4	20.6	9 18	22 0.94	-10 39.0	0.922	1.875	13.9	18.7
9 28	21 47.79	-20 32.6	1.702	2.527	15.8	20.8	9 28	22 0.29	-11 52.7	0.985	1.884	18.7	19.0
390760	2003 <i>SP</i> ₃₉₃		8 24.2 232°19	1°0/23.3	18		228257	1999 <i>JL</i> ₁₁₁		8 24.2 45°68	4°8/20.6	17	
7 20	22 35.01	-10 5.0	1.868	2.732	13.6	21.6	7 20	22 37.42	-18 5.7	1.277	2.172	16.6	19.6
7 30	22 30.85	-10 58.1	1.793	2.730	10.2	21.4	7 30	22 33.12	-19 25.7	1.243	2.195	12.2	19.4
8 9	22 24.73	-12 2.9	1.742	2.727	6.3	21.2	8 9	22 26.24	-20 49.8	1.230	2.218	7.8	19.2
8 19	22 17.21	-13 14.0	1.716	2.725	2.1	20.9	8 19	22 17.72	-22 7.6	1.240	2.242	4.9	19.1
8 29	22 9.13	-14 25.0	1.718	2.722	2.7	20.9	8 29	22 8.84	-23 9.7	1.275	2.267	6.5	19.3
9 8	22 1.47	-15 29.0	1.746	2.720	6.8	21.2	9 8	22 0.95	-23 49.6	1.334	2.291	10.3	19.6
9 18	21 55.10	-16 20.8	1.801	2.717	10.7	21.4	9 18	21 55.11	-24 5.6	1.415	2.316	14.1	19.9
9 28	21 50.74	-16 57.4	1.878	2.714	14.0	21.6	9 28	21 51.98	-23 58.7	1.516	2.342	17.3	20.2
236502	2006 <i>GR</i> ₂₈		8 24.2 270°69	3°1/27.0	18		28222	Neilpathak		8 24.2 114°59	3°3/21.9	18	
7 20	22 34.89	+ 0 4.5	1.890	2.718	14.9	20.4	7 20	22 41.69	-15 45.2	1.388	2.270	16.4	17.7
7 30	22 30.87	- 0 11.0	1.794	2.701	11.9	20.1	7 30	22 36.35	-16 39.3	1.334	2.279	12.2	17.4
8 9	22 24.84	- 0 45.0	1.720	2.684	8.4	19.9	8 9	22 28.35	-17 40.8	1.300	2.288	7.6	17.2
8 19	22 17.29	- 1 36.2	1.670	2.667	4.8	19.7	8 19	22 18.50	-18 41.7	1.291	2.297	3.7	17.0
8 29	22 9.02	- 2 40.6	1.647	2.650	3.3	19.5	8 29	22 8.08	-19 33.2	1.307	2.305	5.0	17.1
9 8	22 1.00	- 3 52.1	1.651	2.632	6.2	19.7	9 8	21 58.49	-20 8.6	1.348	2.313	9.4	17.4
9 18	21 54.16	- 5 4.0	1.681	2.615	10.1	19.9	9 18	21 50.91	-20 24.7	1.413	2.321	13.6	17.7
9 28	21 49.30	- 6 9.7	1.734	2.597	13.8	20.1	9 28	21 46.14	-20 21.3	1.498	2.329	17.2	17.9
434754	2006 <i>HF</i> ₇₇		8 24.2 353°97	1°2/25.3	18		316035	2009 <i>FK</i> ₆₈		8 24.2 137°82	1°0/24.9	17	
7 20	22 31.84	- 3 23.2	1.599	2.457	15.8	20.6	7 20	22 38.82	- 5 34.7	1.511	2.368	16.6	21.7
7 30	22 28.74	- 4 18.7	1.526	2.455	12.2	20.4	7 30	22 34.03	- 6 7.5	1.445	2.374	12.7	21.4
8 9	22 23.54	- 5 34.4	1.474	2.453	7.9	20.2	8 9	22 26.86	- 6 57.3	1.400	2.380	8.2	21.2
8 19	22 16.83	- 7 5.8	1.445	2.452	3.3	19.9	8 19	22 17.99	- 7 59.6	1.379	2.385	3.2	20.9
8 29	22 9.50	- 8 45.1	1.443	2.451	2.2	19.8	8 29	22 8.52	- 9 7.4	1.383	2.391	2.3	20.9
9 8	22 2.61	-10 23.0	1.467	2.450	6.7	20.1	9 8	21 59.65	-10 13.0	1.415	2.396	7.1	21.2
9 18	21 57.13	-11 51.2	1.517	2.450	11.1	20.3	9 18	21 52.47	-11 9.5	1.471	2.400	11.7	21.5
9 28	21 53.82	-13 3.5	1.589	2.450	14.9	20.6	9 28	21 47.78	-11 52.3	1.548	2.404	15.5	21.7
111985	2002 <i>GM</i> ₉₅		8 24.2 67°55	1°6/23.3	17		335020	2004 <i>NN</i> ₁₉		8 24.2 70°20	16°1/1.2	17	
7 20	22 42.90	-13 19.9	1.288	2.167	17.5	20.0	7 20	22 47.04	+14 46.4	1.074	1.858	26.5	19.8
7 30	22 37.23	-13 36.9	1.239	2.183	13.1	19.8	7 30	22 41.36	+17 25.3	1.018	1.864	23.5	19.6
8 9	22 28.83	-14 2.5	1.211	2.199	8.0	19.6	8 9	22 32.08	+19 32.7	0.977	1.871	20.4	19.4
8 19	22 18.62	-14 30.8	1.206	2.214	2.9	19.3	8 19	22 19.98	+20 57.4	0.953	1.878	17.7	19.3
8 29	22 7.96	-14 54.9	1.226	2.230	3.5	19.4	8 29	22 6.64	+21 32.2	0.948	1.885	16.2	19.2
9 8	21 58.30	-15 9.3	1.271	2.246	8.5	19.8	9 8	21 54.05	+21 18.4	0.962	1.892	16.6	19.3
9 18	21 50.81	-15 11.0	1.339	2.262	13.1	20.1	9 18	21 44.01	+20 25.1	0.995	1.899	18.4	19.4
9 28	21 46.24	-14 59.1	1.428	2.278	16.9	20.4	9 28	21 37.77	+19 7.3	1.045	1.906	21.0	19.6
513460	2009 <i>AE</i> ₄₀		8 24.2 318°18	2°4/26.2	18		55031	2001 <i>QJ</i> ₄₇		8 24.2 235°39	0°7/23.7	18	
7 20	22 36.54	- 3 20.3	1.813	2.655	14.9	21.6	7 20	22 39.06	-10 36.2	1.822	2.682	14.1	19.7
7 30	22 32.02	- 3 18.1	1.736	2.653	11.6	21.4	7 30	22 34.03	-11 5.0	1.739	2.672	10.6	19.5
8 9	22 25.47	- 3 30.5	1.679	2.650	7.9	21.2	8 9	22 26.82	-11 44.2	1.678	2.662	6.6	19.3
8 19	22 17.48	- 3 55.6	1.647	2.648	4.0	21.0	8 19	22 18.00	-12 29.4	1.643	2.651	2.3	19.0
8 29	22 8.90	- 4 29.8	1.641	2.646	2.8	20.9	8 29	22 8.49	-13 15.0	1.635	2.641	2.5	19.0
9 8	22 0.76	- 5 8.1	1.662	2.644	6.2	21.1	9 8	21 59.38	-13 55.2	1.654	2.629	7.0	19.2
9 18	21 53.95	- 5 45.4	1.709	2.642	10.1	21.3	9 18	21 51.65	-14 25.5	1.699	2.617	11.1	19.4
9 28	21 49.22	- 6 16.9	1.779	2.640	13.6	21.5	9 28	21 46.13	-14 43.1	1.767	2.605	14.7	19.6
514760	2007 <i>EA</i> ₆₆		8 24.2 201°53	0°7/23.5	18		142964	2002 <i>VO</i> ₈₀		8 24.2 328°93	6°0/19.6	18	
7 20	22 34.21	-10 54.4	2.625	3.477	10.5	22.4	7 20	22 32.50	-18 55.9	1.159	2.067	16.9	18.2
7 30	22 29.71	-11 30.9	2.544	3.474	7.9	22.2	7 30	22 30.23	-20 21.8	1.090	2.049	12.8	17.9
8 9	22 23.77	-12 14.5	2.488	3.471	4.8	22.0	8 9	22 25.01	-21 57.4	1.041	2.032	8.6	17.6
8 19	22 16.84	-13 2.0	2.459	3.468	1.6	21.8	8 19	22 17.49	-23 31.6	1.015	2.015	6.1	17.4
8 29	22 9.51	-13 49.2	2.459	3.464	2.0	21.8	8 29	22 8.93	-24 51.3	1.010	2.000	8.2	17.5
9 8	22 2.48	-14 32.0	2.488	3.460	5.2	22.0	9 8	22 0.93	-25 45.8	1.028	1.985	12.6	17.7
9 18	21 56.36	-15 7.2	2.544	3.455	8.2	22.2	9 18	21 54.95	-26 9.9	1.066	1.972	17.2	17.9
9 28	21 51.69	-15 32.6	2.625	3.451	10.8	22.4	9 28	21 52.07	-26 3.0	1.120	1.960	21.2	18.1
327948	2007 <i>ET</i> ₄₆		8 24.2 230°99	2°6/21.7	18		191642	2004 <i>PV</i> ₂₉		8 24.2 40°43	0°7/23.7	17	
7 20	22 37.50	-18 25.8	2.373	3.238	11.0	20.9	7 20	22 34.12	- 7 45.4	1.232	2.116	17.9	19.3
7 30	22 32.31	-18 52.7	2.298	3.235	8.2	20.7	7 30	22 30.71	- 8 52.4	1.189	2.134	13.4	19.1
8 9	22 25.44	-19 21.6	2.248	3.232	5.2	20.5	8 9	22 24.82	-10 16.8	1.166	2.154	8.2	18.9
8 19	22 17.42	-19 48.4	2.225	3.228	2.8	20.4	8 19	22 17.26	-11 50.4	1.165	2.175	2.7	18.6
8 29	22 9.00	-20 8.8	2.230	3.225	3.7	20.4	8 29	22 9.26	-13 22.7	1.190	2.196	3.0	18.7
9 8	22 0.97	-20 19.5	2.263	3.221	6.6	20.6	9 8	22 2.11	-14 43.7	1.238	2.218	8.2	19.1
9 18	21 54.09	-20 18.7	2.322	3.217	9.6	20.8	9 18	21 56.86	-15 46.6	1.310	2.240	12.8	19.4
9 28	21 48.94	-20 5.9	2.405	3.213	12.2	21.0	9 28	21 54.21	-16 27.9	1.402	2.263	16.6	19.7
383298	2006 <i>FR</i> ₂₃		8 24.2 184°42	3°7/28.3	18		513427	2008 <i>UO</i> ₈₉		8 24.2 241°17	5°9/2		

EPHEMERIDES

8 24.2

8 24.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
46021	2001 <i>DZ</i> ₁₄		8 24.2 130°96	0°8/25.0	18		262577	2006 <i>VQ</i> ₆₇		8 24.2 335°76	0°6/24.8	18	
7 20	22 36.77	- 3 56.4	1.652	2.501	15.8	19.3	7 20	22 34.56	- 7 15.3	1.901	2.757	13.7	20.8
7 30	22 32.31	- 4 58.7	1.586	2.510	12.0	19.1	7 30	22 30.49	- 7 36.5	1.824	2.754	10.5	20.6
8 9	22 25.71	- 6 19.9	1.541	2.519	7.7	18.9	8 9	22 24.52	- 8 9.8	1.770	2.750	6.7	20.3
8 19	22 17.60	- 7 54.4	1.521	2.528	3.0	18.6	8 19	22 17.21	- 8 51.8	1.740	2.747	2.6	20.1
8 29	22 8.95	- 9 34.3	1.528	2.536	2.1	18.6	8 29	22 9.37	- 9 37.8	1.737	2.744	1.9	20.0
9 8	22 0.83	-11 10.5	1.563	2.543	6.7	18.9	9 8	22 1.92	-10 22.4	1.761	2.742	6.1	20.3
9 18	21 54.22	-12 35.4	1.624	2.550	11.0	19.2	9 18	21 55.73	-11 0.7	1.811	2.739	9.9	20.5
9 28	21 49.83	-13 43.7	1.708	2.557	14.6	19.4	9 28	21 51.48	-11 29.2	1.884	2.737	13.3	20.7
73057	2002 <i>FS</i> ₂		8 24.2 22°74	8°5/19.3	18		314617	2006 <i>DC</i> ₁₂₁		8 24.2 185°95	2°7/20.7	18	
7 20	22 41.58	-28 41.5	1.277	2.171	16.7	18.7	7 20	22 33.39	-17 18.7	2.687	3.553	9.9	20.7
7 30	22 36.50	-29 30.1	1.237	2.180	13.1	18.5	7 30	22 29.14	-18 25.5	2.615	3.553	7.3	20.6
8 9	22 28.48	-30 10.4	1.216	2.190	9.9	18.4	8 9	22 23.46	-19 36.2	2.569	3.552	4.6	20.4
8 19	22 18.54	-30 32.8	1.218	2.201	8.5	18.3	8 19	22 16.80	-20 46.0	2.550	3.552	2.8	20.3
8 29	22 8.19	-30 29.9	1.243	2.213	9.7	18.4	8 29	22 9.75	-21 49.8	2.561	3.551	3.8	20.3
9 8	21 59.01	-29 59.5	1.290	2.226	12.7	18.6	9 8	22 2.99	-22 43.3	2.600	3.550	6.3	20.5
9 18	21 52.20	-29 4.1	1.359	2.239	16.0	18.9	9 18	21 57.14	-23 23.6	2.666	3.548	9.0	20.7
9 28	21 48.46	-27 48.3	1.446	2.254	18.9	19.1	9 28	21 52.74	-23 49.3	2.755	3.546	11.3	20.8
380721	2005 <i>QL</i> ₁₃₁		8 24.2 309°80	2°7/22.4	18		471612	2012 <i>SR</i> ₄₅		8 24.2 293°38	7°6/19.4	16	
7 20	22 36.38	-14 20.3	1.354	2.242	16.3	20.4	7 20	22 54.31	-30 39.4	1.883	2.735	14.0	22.3
7 30	22 32.86	-14 58.3	1.269	2.218	12.3	20.1	7 30	22 46.18	-31 12.8	1.775	2.692	11.4	22.0
8 9	22 26.55	-15 47.3	1.204	2.194	7.7	19.8	8 9	22 34.87	-31 39.0	1.690	2.649	8.9	21.8
8 19	22 18.04	-16 40.8	1.162	2.170	3.3	19.4	8 19	22 21.00	-31 48.9	1.631	2.605	7.6	21.6
8 29	22 8.45	-17 30.5	1.145	2.147	4.6	19.5	8 29	22 5.84	-31 34.2	1.599	2.560	8.8	21.6
9 8	21 59.23	-18 8.1	1.152	2.124	9.6	19.7	9 8	21 50.99	-30 50.5	1.595	2.514	11.8	21.6
9 18	21 51.74	-18 28.0	1.180	2.102	14.6	19.9	9 18	21 38.00	-29 38.7	1.616	2.468	15.4	21.7
9 28	21 47.11	-18 27.7	1.228	2.081	19.0	20.1	9 28	21 28.07	-28 3.7	1.659	2.420	18.7	21.9
444711	2007 <i>EG</i> ₁₅₁		8 24.2 319°57	4°6/20.6	18		427782	2005 <i>CO</i> ₃₆		8 24.2 192°98	2°6/22.1	17	
7 20	22 38.80	-22 45.9	1.930	2.807	12.7	20.7	7 20	22 39.06	-13 33.1	1.603	2.477	15.0	21.5
7 30	22 33.77	-23 15.7	1.854	2.795	9.7	20.5	7 30	22 34.25	-14 37.4	1.534	2.476	11.2	21.3
8 9	22 26.60	-23 44.8	1.801	2.782	6.6	20.3	8 9	22 27.06	-15 52.0	1.487	2.475	6.9	21.0
8 19	22 17.93	-24 7.4	1.774	2.770	4.6	20.2	8 19	22 18.14	-17 9.8	1.466	2.473	3.0	20.8
8 29	22 8.68	-24 18.1	1.773	2.759	5.7	20.2	8 29	22 8.54	-18 22.2	1.471	2.471	4.3	20.9
9 8	21 59.92	-24 13.1	1.799	2.747	8.7	20.4	9 8	21 59.48	-19 21.6	1.502	2.468	8.5	21.1
9 18	21 52.60	-23 51.4	1.848	2.736	12.0	20.5	9 18	21 52.05	-20 3.0	1.558	2.465	12.7	21.4
9 28	21 47.48	-23 13.7	1.920	2.726	15.0	20.7	9 28	21 47.07	-20 24.6	1.635	2.462	16.2	21.6
322411	2011 <i>SX</i> ₆₆		8 24.2 9°09	5°3/28.7	18		324986	2008 <i>AQ</i> ₁₃₆		8 24.2 152°96	3°3/26.7	18	
7 20	22 34.27	+ 3 46.9	1.687	2.507	16.8	20.2	7 20	22 39.06	- 1 22.2	1.575	2.414	16.9	20.8
7 30	22 30.46	+ 4 4.6	1.613	2.508	13.7	20.0	7 30	22 34.19	- 1 21.5	1.503	2.417	13.3	20.6
8 9	22 24.59	+ 4 1.5	1.559	2.509	10.2	19.8	8 9	22 26.98	- 1 39.3	1.452	2.420	9.2	20.3
8 19	22 17.25	+ 3 37.6	1.527	2.511	6.9	19.6	8 19	22 18.11	- 2 13.8	1.423	2.422	5.0	20.1
8 29	22 9.31	+ 2 55.6	1.520	2.513	5.3	19.5	8 29	22 8.58	- 3 0.8	1.421	2.425	3.5	20.0
9 8	22 1.82	+ 2 1.0	1.538	2.516	7.1	19.7	9 8	21 59.59	- 3 53.8	1.445	2.427	6.9	20.2
9 18	21 55.72	+ 1 0.4	1.581	2.519	10.4	19.9	9 18	21 52.21	- 4 46.1	1.493	2.428	11.1	20.5
9 28	21 51.75	+ 0 1.1	1.647	2.522	13.7	20.1	9 28	21 47.23	- 5 31.8	1.565	2.430	14.9	20.7
451318	2010 <i>UM</i> ₉₃		8 24.2 30°95	3°8/21.2	18		220325	2003 <i>FV</i> ₄₀		8 24.2 233°85	3°7/21.1	18	
7 20	22 38.04	-20 34.9	1.901	2.779	12.8	20.4	7 20	22 40.55	-18 45.6	1.924	2.794	13.0	21.7
7 30	22 33.01	-21 6.1	1.844	2.785	9.6	20.2	7 30	22 35.14	-19 35.6	1.844	2.783	9.8	21.5
8 9	22 26.00	-21 37.8	1.809	2.793	6.3	20.0	8 9	22 27.52	-20 29.5	1.788	2.771	6.3	21.3
8 19	22 17.68	-22 4.6	1.800	2.800	3.9	19.9	8 19	22 18.30	-21 21.1	1.757	2.759	3.8	21.1
8 29	22 8.97	-22 21.3	1.817	2.808	5.0	20.0	8 29	22 8.40	-22 3.7	1.754	2.746	5.0	21.1
9 8	22 0.88	-22 24.5	1.861	2.816	8.1	20.2	9 8	21 58.92	-22 32.1	1.779	2.732	8.4	21.3
9 18	21 54.26	-22 12.9	1.930	2.825	11.2	20.4	9 18	21 50.85	-22 43.4	1.828	2.718	12.0	21.5
9 28	21 49.75	-21 46.9	2.021	2.834	14.1	20.6	9 28	21 44.99	-22 37.3	1.899	2.704	15.1	21.7
91968	1999 <i>VA</i> ₉₂		8 24.2 247°96	1°4/25.8	18		513440	2008 <i>UL</i> ₃₄₅		8 24.2 327°72	6°3/27.6	18	
7 20	22 33.96	- 3 55.6	2.616	3.445	11.3	20.0	7 20	22 37.54	+ 0 48.8	1.392	2.234	18.6	20.4
7 30	22 29.62	- 4 16.6	2.519	3.430	8.7	19.8	7 30	22 33.57	+ 1 53.2	1.308	2.217	15.2	20.2
8 9	22 23.81	- 4 48.9	2.445	3.415	5.8	19.6	8 9	22 26.93	+ 2 40.7	1.241	2.200	11.4	19.9
8 19	22 16.94	- 5 30.4	2.397	3.400	2.7	19.3	8 19	22 18.20	+ 3 8.8	1.197	2.185	7.8	19.6
8 29	22 9.59	- 6 17.9	2.378	3.384	1.8	19.3	8 29	22 8.45	+ 3 17.4	1.175	2.170	6.4	19.5
9 8	22 2.44	- 7 7.4	2.389	3.368	4.7	19.4	9 8	21 59.05	+ 3 9.2	1.178	2.156	8.8	19.6
9 18	21 56.15	- 7 54.7	2.427	3.352	7.9	19.6	9 18	21 51.29	+ 2 49.6	1.204	2.143	12.8	19.8
9 28	21 51.28	- 8 36.3	2.490	3.336	10.7	19.8	9 28	21 46.24	+ 2 25.4	1.250	2.130	16.8	20.0
247540	2002 <i>RN</i> ₈₁		8 24.2 331°98	2°5/22.7	18		146266	2001 <i>CY</i>		8 24.2 67°85	0°1/24.3	18	
7 20	22 37.69	-16 1.9	1.485	2.370	15.3	19.8	7 20	22 37.74	-10 10.2	2.167	3.019	12.4	19.1
7 30	22 33.46	-16 14.5	1.409	2.355	11.6	19.5	7 30	22 32.45	-10 17.7	2.108	3.037	9.3	19.0
8 9	22 26.68	-16 32.6	1.353	2.342	7.2	19.2	8 9	22 25.51	-10 32.5	2.073	3.055	5.8	18.8
8 19	22 18.03	-16 50.9	1.322	2.329	3.1	19.0	8 19	22 17.50	-10 51.6	2.064	3.073	2.0	18.6
8 29	22 8.60	-17 3.4	1.315	2.317	4.1	19.0	8 29	22 9.21	-11 11.4	2.084	3.091	1.8	18.6
9 8	21 59.71	-17 5.1	1.333	2.306	8.6	19.2	9 8	22 1.45	-11 28.4	2.132	3.109	5.5	18.9
9 18	21 52.52	-16 53.4	1.375	2.296	13.0	19.5	9 18	21 54.93	-11 39.7	2.206	3.127	8.8	19.1
9 28	21 47.95	-16 27.3	1.437	2.286	16.9	19.7	9 28	21 50.21	-11 43.6	2.305	3.145	11.6	19.3
40989	1999 <i>UO</i>		8 24.2 319°98										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
276973	2004 <i>VT</i> ₄₁		8 24.3	33°58'	3°3'/21.8	17	347853	2002 <i>QK</i> ₁₄₄		8 24.3	13°46'	1°8'/22.9	18
7 20	22 37.05	-16 7.6	1.421	2.309	15.7	20.0	7 20	22 38.06	-14 8.1	1.699	2.573	14.3	21.1
7 30	22 32.83	-16 57.1	1.368	2.317	11.6	19.8	7 30	22 33.30	-14 31.8	1.632	2.574	10.7	20.9
8 9	22 26.16	-17 53.1	1.337	2.326	7.3	19.6	8 9	22 26.36	-15 2.1	1.588	2.575	6.6	20.7
8 19	22 17.81	-18 48.3	1.329	2.335	3.6	19.4	8 19	22 17.90	-15 34.4	1.568	2.576	2.5	20.4
8 29	22 8.95	-19 34.7	1.346	2.344	4.9	19.5	8 29	22 8.91	-16 2.8	1.575	2.578	3.3	20.5
9 8	22 0.84	-20 6.0	1.388	2.354	9.0	19.8	9 8	22 0.49	-16 22.4	1.608	2.580	7.5	20.7
9 18	21 54.55	-20 19.1	1.453	2.365	13.1	20.0	9 18	21 53.61	-16 30.3	1.666	2.582	11.4	21.0
9 28	21 50.83	-20 13.5	1.538	2.375	16.5	20.3	9 28	21 49.01	-16 24.9	1.745	2.585	14.8	21.2
42892	1999 <i>RF</i> ₁₈₀		8 24.3	222°09'	6°2'/18.9	18	317425	2002 <i>QW</i> ₁₀		8 24.3	89°97'	3°0'/26.3	18
7 20	22 42.43	-27 14.6	2.007	2.877	12.5	18.5	7 20	22 40.36	-3 1.3	1.480	2.327	17.4	20.2
7 30	22 36.46	-28 8.4	1.939	2.871	9.8	18.3	7 30	22 35.21	-2 52.1	1.416	2.336	13.6	20.0
8 9	22 28.28	-28 58.4	1.896	2.865	7.3	18.1	8 9	22 27.63	-3 0.1	1.373	2.345	9.2	19.8
8 19	22 18.55	-29 37.7	1.878	2.858	6.2	18.0	8 19	22 18.36	-3 23.3	1.352	2.353	4.8	19.5
8 29	22 8.26	-29 59.8	1.886	2.851	7.4	18.1	8 29	22 8.50	-3 57.5	1.357	2.362	3.3	19.5
9 8	21 58.54	-30 1.4	1.921	2.844	9.9	18.2	9 8	21 59.32	-4 36.6	1.388	2.371	7.1	19.7
9 18	21 50.38	-30 41.8	1.980	2.836	12.7	18.4	9 18	21 51.89	-5 14.4	1.444	2.379	11.4	20.0
9 28	21 44.52	-29 3.1	2.060	2.828	15.3	18.6	9 28	21 47.01	-5 45.8	1.521	2.388	15.2	20.2
479575	2014 <i>CM</i> ₁₂		8 24.3	141°26'	2°0'/22.4	18	86145	1999 <i>RU</i> ₁₉₁		8 24.3	79°15'	0°7'/23.6	18
7 20	22 38.64	-14 47.6	2.047	2.911	12.6	21.8	7 20	22 36.90	-11 42.1	2.125	2.984	12.4	19.2
7 30	22 33.36	-15 26.5	1.982	2.919	9.3	21.6	7 30	22 31.94	-12 3.1	2.062	2.995	9.2	19.0
8 9	22 26.21	-16 10.9	1.940	2.926	5.8	21.4	8 9	22 25.28	-12 31.1	2.022	3.006	5.7	18.8
8 19	22 17.79	-16 55.9	1.925	2.932	2.5	21.2	8 19	22 17.47	-13 2.3	2.008	3.017	1.9	18.5
8 29	22 8.96	-17 36.1	1.938	2.938	3.3	21.3	8 29	22 9.31	-13 32.4	2.023	3.028	2.2	18.6
9 8	22 0.62	-18 7.0	1.979	2.944	6.8	21.5	9 8	22 1.65	-13 57.4	2.065	3.039	5.9	18.9
9 18	21 53.61	-18 25.7	2.045	2.950	10.2	21.8	9 18	21 55.21	-14 14.4	2.134	3.050	9.3	19.1
9 28	21 48.56	-18 31.0	2.135	2.955	13.2	22.0	9 28	21 50.59	-14 21.5	2.226	3.061	12.2	19.3
339317	2004 <i>XF</i> ₁₁₁		8 24.3	278°63'	0°1'/24.2	18	253337	2003 <i>FC</i> ₃₃		8 24.3	40°97'	4°3'/29.1	18
7 20	22 38.25	-9 24.1	1.841	2.699	14.0	21.5	7 20	22 31.43	+5 43.1	1.814	2.624	16.2	19.8
7 30	22 33.57	-9 41.9	1.744	2.676	10.7	21.2	7 30	22 28.13	+5 2.9	1.748	2.638	13.1	19.6
8 9	22 26.67	-10 10.8	1.669	2.652	6.8	20.9	8 9	22 23.03	+3 58.7	1.703	2.652	9.6	19.4
8 19	22 18.07	-10 47.5	1.619	2.628	2.4	20.6	8 19	22 16.72	+2 33.1	1.681	2.667	6.1	19.2
8 29	22 8.62	-11 26.9	1.596	2.603	2.2	20.5	8 29	22 9.99	+0 51.7	1.685	2.682	4.3	19.2
9 8	21 59.41	-12 3.5	1.601	2.578	6.9	20.8	9 8	22 3.73	-0 57.3	1.717	2.698	6.1	19.3
9 18	21 51.47	-12 32.6	1.631	2.553	11.2	21.0	9 18	21 58.74	-2 45.2	1.775	2.714	9.3	19.5
9 28	21 45.70	-12 50.6	1.683	2.528	15.0	21.2	9 28	21 55.62	-4 24.4	1.857	2.730	12.5	19.8
58010	2002 <i>TB</i> ₂₆₆		8 24.3	231°65'	2°8'/21.7	18	97699	2000 <i>GP</i> ₅₇		8 24.3	41°65'	1°8'/23.3	17
7 20	22 39.91	-16 8.6	2.053	2.918	12.5	20.7	7 20	22 40.80	-12 29.1	0.905	1.807	21.1	18.7
7 30	22 34.56	-17 1.9	1.967	2.904	9.4	20.5	7 30	22 36.24	-12 55.2	0.876	1.831	15.6	18.5
8 9	22 27.14	-18 1.7	1.905	2.889	5.9	20.3	8 9	22 28.44	-13 33.6	0.863	1.855	9.5	18.3
8 19	22 18.19	-19 2.0	1.869	2.874	3.0	20.1	8 19	22 18.59	-14 15.9	0.872	1.881	3.3	18.0
8 29	22 8.55	-19 56.6	1.862	2.858	4.2	20.1	8 29	22 8.44	-14 52.6	0.902	1.908	4.1	18.1
9 8	21 59.22	-20 39.7	1.882	2.841	7.7	20.3	9 8	21 59.72	-15 16.3	0.954	1.935	9.8	18.6
9 18	21 51.16	-21 7.6	1.929	2.823	11.3	20.5	9 18	21 53.68	-15 23.3	1.027	1.963	14.9	19.0
9 28	21 45.15	-21 19.1	1.998	2.805	14.4	20.7	9 28	21 51.01	-15 13.1	1.119	1.991	19.0	19.3
279667	2011 <i>FD</i> ₁₈		8 24.3	75°13'	0°4'/23.9	16	317771	2003 <i>SS</i> ₁₁₇		8 24.3	346°00'	3°9'/27.8	18
7 20	22 39.29	-10 4.3	1.598	2.464	15.4	21.5	7 20	22 33.55	+1 14.8	2.076	2.895	14.1	20.0
7 30	22 34.18	-10 26.1	1.541	2.477	11.6	21.3	7 30	22 29.62	+1 27.0	1.993	2.891	11.3	19.8
8 9	22 26.86	-10 58.5	1.506	2.490	7.2	21.1	8 9	22 23.95	+1 23.7	1.932	2.887	8.2	19.6
8 19	22 18.04	-11 37.0	1.495	2.503	2.4	20.8	8 19	22 17.06	+1 5.3	1.894	2.884	5.2	19.4
8 29	22 8.77	-12 15.6	1.510	2.517	2.4	20.9	8 29	22 9.65	+0 34.3	1.884	2.881	3.9	19.3
9 8	22 0.20	-12 48.7	1.552	2.530	7.0	21.2	9 8	22 2.58	-0 5.3	1.899	2.878	5.9	19.5
9 18	21 53.30	-13 12.2	1.619	2.543	11.2	21.5	9 18	21 56.60	-0 48.5	1.942	2.876	9.0	19.6
9 28	21 48.75	-13 23.6	1.708	2.556	14.7	21.7	9 28	21 52.38	-1 30.3	2.008	2.874	12.0	19.8
268745	2006 <i>PN</i> ₂₉		8 24.3	66°94'	1°4'/24.6	16	477887	2011 <i>JS</i> ₁₃		8 24.3	43°38'	9°4'/15.6	16
7 20	22 56.67	-12 31.4	1.021	1.893	21.6	20.0	7 20	22 37.39	-29 35.2	1.473	2.365	15.0	20.4
7 30	22 48.33	-11 12.6	0.966	1.903	16.6	19.7	7 30	22 33.31	-31 37.5	1.436	2.374	12.0	20.3
8 9	22 36.15	-9 58.6	0.930	1.913	10.6	19.4	8 9	22 26.58	-33 32.8	1.421	2.384	9.9	20.2
8 19	22 21.35	-8 48.9	0.916	1.923	4.1	19.1	8 19	22 18.01	-35 9.2	1.429	2.394	9.5	20.2
8 29	22 5.86	-7 43.0	0.927	1.934	3.3	19.1	8 29	22 8.86	-36 16.7	1.462	2.404	11.1	20.3
9 8	21 51.86	-6 41.1	0.963	1.944	9.5	19.5	9 8	22 0.54	-36 50.7	1.516	2.414	13.7	20.5
9 18	21 40.99	-5 42.9	1.022	1.955	15.2	19.8	9 18	21 54.19	-36 51.6	1.591	2.425	16.4	20.7
9 28	21 34.21	-4 47.4	1.100	1.965	19.8	20.2	9 28	21 50.61	-36 23.5	1.683	2.436	18.8	20.9
61434	2000 <i>QB</i> ₁₉		8 24.3	18°51'	0°4'/24.6	17	65871	1997 <i>UC</i> ₂₂		8 24.3	355°90'	7°1'/29.7	18
7 20	22 35.27	-7 38.4	1.354	2.229	17.1	18.7	7 20	22 37.24	+7 11.2	1.974	2.759	15.9	16.8
7 30	22 31.60	-8 2.9	1.293	2.233	13.0	18.5	7 30	22 32.52	+8 17.2	1.892	2.756	13.4	16.7
8 9	22 25.48	-8 43.1	1.252	2.237	8.2	18.2	8 9	22 25.84	+9 5.8	1.831	2.754	10.7	16.5
8 19	22 17.62	-9 34.2	1.234	2.242	3.0	17.9	8 19	22 17.75	+9 34.9	1.793	2.752	8.3	16.3
8 29	22 9.14	-10 29.3	1.240	2.248	2.4	17.9	8 29	22 9.04	+9 43.9	1.780	2.751	7.2	16.3
9 8	22 1.32	-11 20.6	1.271	2.254	7.6	18.2	9 8	22 0.67	+9 34.9	1.793	2.751	8.0	16.3
9 18	21 55.26	-12 1.9	1.326	2.260	12.2	18.5	9 18	21 53.52	+9 12.2	1.831	2.751	10.3	16.5
9 28	21 51.77	-12 28.9	1.401	2.268	16.2	18.8	9 28	21 48.33	+8 41.4	1.892	2.752	12.9	16.6
287965	2003 <i>UR</i> ₁₂₃		8 24.3	329°17'	0°4'/24.0	18	8821	1987 <i>DP</i> ₆		8 24.3	226°29'	0°4'/23.9	18

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
516514	2006 <i>DE</i> ₁₇		8 24.3 201°53	1°5/22.6	18		474489	2003 <i>SU</i> ₃₃₈		8 24.3 356°26	3°9/21.4	18	
7 20	22 36.43	-15 13.3	2.783	3.638	9.9	22.5	7 20	22 36.50	-17 45.2	1.460	2.350	15.2	21.7
7 30	22 31.32	-15 36.5	2.703	3.635	7.4	22.3	7 30	22 32.53	-18 32.0	1.398	2.347	11.4	21.5
8 9	22 24.80	-16 3.2	2.648	3.632	4.5	22.1	8 9	22 26.09	-19 24.1	1.357	2.345	7.3	21.2
8 19	22 17.32	-16 30.2	2.621	3.628	1.9	21.9	8 19	22 17.90	-20 14.3	1.339	2.344	4.1	21.1
8 29	22 9.47	-16 54.1	2.623	3.624	2.5	22.0	8 29	22 9.07	-20 54.6	1.347	2.343	5.4	21.1
9 8	22 1.93	-17 11.8	2.655	3.620	5.3	22.2	9 8	22 0.88	-21 19.0	1.379	2.343	9.4	21.4
9 18	21 55.31	-17 21.3	2.714	3.615	8.1	22.3	9 18	21 54.45	-21 24.5	1.434	2.343	13.4	21.6
9 28	21 50.14	-17 21.4	2.797	3.610	10.6	22.5	9 28	21 50.59	-21 10.8	1.510	2.345	16.9	21.8
257424	2010 <i>HX</i> ₉₀		8 24.3 30°86	1°1/23.4	18		243473	2009 <i>SO</i> ₂₄₁		8 24.3 309°38	6°2/20.0	17	
7 20	22 36.15	-12 7.8	1.712	2.584	14.2	20.5	7 20	22 47.06	-29 51.3	2.122	2.981	12.4	20.7
7 30	22 31.79	-12 34.4	1.651	2.591	10.6	20.3	7 30	22 39.88	-30 4.7	2.041	2.964	9.9	20.6
8 9	22 25.37	-13 9.6	1.611	2.598	6.5	20.1	8 9	22 30.41	-30 10.4	1.984	2.947	7.5	20.4
8 19	22 17.56	-13 48.5	1.597	2.606	2.3	19.9	8 19	22 19.36	-30 2.6	1.952	2.931	6.2	20.3
8 29	22 9.28	-14 25.6	1.609	2.614	2.8	19.9	8 29	22 7.77	-29 36.6	1.949	2.914	7.1	20.3
9 8	22 1.58	-14 55.6	1.647	2.622	7.0	20.2	9 8	21 56.80	-28 50.7	1.972	2.898	9.5	20.4
9 18	21 55.36	-15 14.7	1.710	2.631	10.9	20.4	9 18	21 47.47	-27 46.1	2.022	2.882	12.3	20.6
9 28	21 51.30	-15 21.2	1.795	2.640	14.2	20.7	9 28	21 40.52	-26 26.0	2.093	2.867	14.9	20.7
67608	2000 <i>SR</i> ₁₅₄		8 24.3 203°18	5°1/20.6	18		189270	2005 <i>QM</i> ₁₇₅		8 24.3 330°67	1°8/25.6	18	
7 20	22 41.46	-20 5.4	1.462	2.347	15.5	18.3	7 20	22 32.99	-4 16.3	1.300	2.172	17.9	20.0
7 30	22 36.32	-21 6.0	1.401	2.346	11.7	18.1	7 30	22 30.20	-4 38.5	1.225	2.160	13.9	19.7
8 9	22 28.48	-22 10.2	1.360	2.345	7.8	17.9	8 9	22 24.84	-5 21.9	1.168	2.149	9.2	19.4
8 19	22 18.72	-23 9.1	1.344	2.343	5.1	17.7	8 19	22 17.53	-6 23.2	1.133	2.139	4.1	19.1
8 29	22 8.25	-23 53.9	1.353	2.342	6.6	17.8	8 29	22 9.34	-7 35.4	1.121	2.129	2.6	19.0
9 8	21 58.50	-24 18.4	1.387	2.340	10.4	18.0	9 8	22 1.62	-8 49.3	1.134	2.120	7.7	19.3
9 18	21 50.67	-24 20.4	1.443	2.338	14.3	18.3	9 18	21 55.60	-9 56.1	1.170	2.112	12.8	19.5
9 28	21 45.64	-24 0.8	1.520	2.336	17.8	18.5	9 28	21 52.23	-10 48.7	1.226	2.104	17.3	19.8
64883	2001 <i>YD</i> ₇₃		8 24.3 104°38	0°7/23.6	18		277234	2005 <i>QM</i> ₁₈₂		8 24.3 288°50	1°3/25.2	18	
7 20	22 36.14	-11 2.7	2.289	3.143	11.8	20.0	7 20	22 36.70	-5 44.6	1.579	2.437	15.9	21.3
7 30	22 31.28	-11 34.2	2.225	3.156	8.8	19.8	7 30	22 32.74	-6 1.3	1.486	2.416	12.4	21.0
8 9	22 24.84	-12 12.9	2.186	3.169	5.4	19.6	8 9	22 26.35	-6 34.3	1.415	2.394	8.1	20.7
8 19	22 17.35	-12 55.1	2.173	3.181	1.8	19.4	8 19	22 18.06	-7 21.0	1.366	2.373	3.4	20.4
8 29	22 9.52	-13 36.4	2.188	3.194	2.1	19.5	8 29	22 8.83	-8 16.1	1.344	2.351	2.3	20.3
9 8	22 2.14	-14 12.5	2.232	3.206	5.6	19.7	9 8	21 59.87	-9 12.4	1.347	2.329	7.2	20.5
9 18	21 55.89	-14 40.3	2.303	3.217	8.8	19.9	9 18	21 52.34	-10 3.2	1.374	2.308	12.0	20.7
9 28	21 51.31	-14 57.9	2.398	3.229	11.5	20.2	9 28	21 47.23	-10 42.9	1.424	2.286	16.3	20.9
514277	2015 <i>RN</i> ₁₁₆		8 24.3 357°11	8°6/16.4	18		216130	2006 <i>SN</i> ₉₅		8 24.3 46°41	0°5/24.7	18	
7 20	22 39.93	-34 12.4	1.941	2.812	12.9	20.2	7 20	22 35.09	-7 14.8	1.946	2.800	13.6	20.7
7 30	22 34.73	-35 17.6	1.890	2.810	10.7	20.1	7 30	22 30.84	-7 41.7	1.874	2.802	10.3	20.5
8 9	22 27.25	-36 13.1	1.861	2.809	9.0	20.0	8 9	22 24.75	-8 20.5	1.824	2.804	6.5	20.2
8 19	22 18.24	-36 51.4	1.857	2.808	8.7	20.0	8 19	22 17.38	-9 7.6	1.800	2.807	2.5	20.0
8 29	22 8.76	-37 6.2	1.877	2.808	9.8	20.0	8 29	22 9.53	-9 58.1	1.803	2.810	1.9	20.0
9 8	21 59.98	-36 55.1	1.921	2.808	11.8	20.2	9 8	22 2.11	-10 46.5	1.833	2.812	5.9	20.2
9 18	21 52.89	-36 19.0	1.986	2.808	14.1	20.3	9 18	21 55.94	-11 28.1	1.889	2.815	9.7	20.5
9 28	21 48.20	-35 21.3	2.071	2.809	16.2	20.5	9 28	21 51.66	-11 59.4	1.969	2.818	12.9	20.7
155201	2005 <i>UL</i> ₄₄₀		8 24.3 216°57	0°6/23.7	17		92715	2000 <i>QJ</i> ₉₀		8 24.3 23°94	3°1/26.6	18	
7 20	22 38.14	-10 2.8	1.838	2.697	14.0	21.8	7 20	22 32.60	-1 37.5	1.148	2.019	19.8	18.8
7 30	22 33.33	-10 39.6	1.759	2.692	10.5	21.5	7 30	22 29.84	-1 50.9	1.098	2.030	15.4	18.6
8 9	22 26.41	-11 27.4	1.703	2.687	6.6	21.3	8 9	22 24.48	-2 28.6	1.065	2.043	10.5	18.4
8 19	22 17.98	-12 21.8	1.673	2.682	2.2	21.0	8 19	22 17.33	-3 26.9	1.054	2.057	5.4	18.1
8 29	22 8.93	-13 16.7	1.670	2.676	2.5	21.0	8 29	22 9.62	-4 38.4	1.065	2.071	3.4	18.1
9 8	22 0.29	-14 6.0	1.694	2.669	6.8	21.3	9 8	22 2.70	-5 53.1	1.100	2.087	7.6	18.4
9 18	21 53.02	-14 44.9	1.744	2.663	10.9	21.5	9 18	21 57.69	-7 1.8	1.157	2.104	12.4	18.7
9 28	21 47.88	-15 10.3	1.817	2.656	14.3	21.7	9 28	21 55.39	-7 57.3	1.235	2.123	16.5	19.0
390511	2014 <i>BC</i> ₄₄		8 24.3 308°48	4°0/26.4	18		180336	2003 <i>YO</i> ₃₄		8 24.3 342°68	3°2/22.5	18	
7 20	22 42.19	-3 32.3	1.563	2.405	16.9	20.8	7 20	22 34.12	-15 7.1	1.022	1.930	18.7	19.2
7 30	22 36.79	-2 39.5	1.477	2.392	13.4	20.5	7 30	22 31.66	-15 36.2	0.958	1.917	14.1	18.9
8 9	22 28.82	-1 58.8	1.413	2.380	9.4	20.3	8 9	22 26.04	-16 15.7	0.913	1.906	8.8	18.6
8 19	22 18.90	-1 30.8	1.371	2.369	5.5	20.0	8 19	22 18.01	-16 58.2	0.887	1.896	3.8	18.3
8 29	22 8.08	-1 14.8	1.356	2.357	4.2	19.9	8 29	22 8.96	-17 34.0	0.884	1.887	5.2	18.3
9 8	21 57.68	-1 7.9	1.367	2.346	7.5	20.1	9 8	22 0.65	-17 54.5	0.902	1.880	10.7	18.6
9 18	21 48.90	-1 6.4	1.402	2.335	11.8	20.3	9 18	21 54.57	-17 55.0	0.939	1.874	16.0	18.9
9 28	21 42.70	-1 6.0	1.460	2.325	15.8	20.5	9 28	21 51.79	-17 34.2	0.995	1.869	20.6	19.2
166739	2002 <i>TX</i> ₂₉₀		8 24.3 287°70	2°9/26.5	18		242929	2006 <i>QP</i> ₄₄		8 24.3 37°08	0°2/24.4	18	
7 20	22 37.50	-2 41.2	1.951	2.784	14.3	19.7	7 20	22 34.49	-7 26.0	1.741	2.603	14.5	20.0
7 30	22 32.88	-2 27.0	1.852	2.762	11.4	19.4	7 30	22 30.57	-8 4.8	1.675	2.608	11.0	19.8
8 9	22 26.20	-2 26.1	1.774	2.741	7.9	19.2	8 9	22 24.67	-8 57.1	1.630	2.613	6.9	19.6
8 19	22 17.95	-2 37.7	1.720	2.719	4.4	18.9	8 19	22 17.37	-9 58.5	1.610	2.618	2.5	19.3
8 29	22 8.92	-2 59.4	1.693	2.697	3.1	18.8	8 29	22 9.58	-11 2.6	1.617	2.624	2.1	19.3
9 8	22 0.11	-3 27.4	1.694	2.675	6.2	19.0	9 8	22 2.28	-12 2.7	1.650	2.630	6.5	19.6
9 18	21 52.45	-3 57.0	1.721	2.652	10.1	19.1	9 18	21 56.36	-12 53.5	1.709	2.636	10.5	19.8
9 28	21 46.79	-4 23.6	1.771	2.630	13.7	19.3	9 28	21 52.50	-13 31.1	1.791	2.643	13.9	20.1
430006	2013 <i>QN</i> ₇₃		8 24.3 275°63	1°5/23.1	18		72598	2001 <i>FM</i> ₁₁		8 24.3 166°51	1°7/26.0	18	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
293719	2007 RQ	8 24.3 213°82		2°0/22.8 17			348538	2005 UA ₁₉₆	8 24.3 264°33		1°3/22.9 17		
7 20	22 40.92	-12 45.3	1.578	2.448	15.4	21.7	7 20	22 36.16	-13 5.2	2.463	3.320	11.0	22.2
7 30	22 35.79	-13 33.2	1.503	2.443	11.5	21.4	7 30	22 31.48	-13 38.0	2.367	3.299	8.2	22.0
8 9	22 28.15	-14 31.9	1.450	2.437	7.2	21.2	8 9	22 25.14	-14 17.3	2.294	3.278	5.1	21.8
8 19	22 18.67	-15 35.0	1.422	2.430	2.8	20.9	8 19	22 17.59	-14 59.5	2.249	3.257	1.9	21.6
8 29	22 8.42	-16 34.7	1.421	2.423	3.7	20.9	8 29	22 9.47	-15 40.3	2.232	3.235	2.5	21.6
9 8	21 58.68	-17 23.7	1.446	2.416	8.3	21.2	9 8	22 1.56	-16 15.4	2.244	3.213	5.9	21.8
9 18	21 50.60	-17 57.1	1.495	2.408	12.7	21.4	9 18	21 54.61	-16 41.5	2.283	3.191	9.2	21.9
9 28	21 45.07	-18 12.7	1.566	2.399	16.5	21.7	9 28	21 49.25	-16 56.4	2.346	3.168	12.1	22.1
107245	2001 BW ₅₈	8 24.3 136°57		1°1/23.3 18			171431	2007 RC ₁₉	8 24.3 45°04		0°9/23.7 18		
7 20	22 40.22	-10 34.4	1.802	2.661	14.3	20.5	7 20	22 38.17	-11 36.7	1.630	2.500	14.9	20.2
7 30	22 34.76	-11 25.3	1.740	2.673	10.6	20.3	7 30	22 33.43	-11 56.4	1.569	2.507	11.2	20.0
8 9	22 27.23	-12 26.7	1.702	2.686	6.5	20.1	8 9	22 26.48	-12 25.2	1.530	2.515	6.9	19.7
8 19	22 18.27	-13 32.8	1.689	2.697	2.3	19.8	8 19	22 18.05	-12 58.4	1.515	2.524	2.4	19.5
8 29	22 8.84	-14 37.0	1.703	2.708	2.8	19.9	8 29	22 9.13	-13 30.5	1.527	2.532	2.7	19.5
9 8	22 0.01	-15 32.9	1.746	2.718	7.0	20.2	9 8	22 0.84	-13 56.2	1.564	2.541	7.1	19.8
9 18	21 52.67	-16 15.9	1.815	2.728	10.8	20.5	9 18	21 54.15	-14 11.9	1.627	2.550	11.2	20.1
9 28	21 47.52	-16 43.8	1.906	2.736	14.1	20.7	9 28	21 49.76	-14 15.5	1.712	2.559	14.7	20.3
412206	2013 GV ₁₀₇	8 24.3 80°20		1°5/25.5 17			178602	2000 CT ₇₈	8 24.3 74°96		0°6/24.9 18		
7 20	22 38.31	-3 33.6	1.269	2.132	18.8	20.7	7 20	22 35.69	-6 41.0	1.860	2.714	14.1	20.8
7 30	22 33.96	-4 15.1	1.216	2.146	14.4	20.5	7 30	22 31.38	-7 9.5	1.790	2.718	10.7	20.6
8 9	22 27.00	-5 18.4	1.181	2.161	9.4	20.3	8 9	22 25.15	-7 51.0	1.742	2.722	6.8	20.4
8 19	22 18.23	-6 38.1	1.170	2.176	4.0	20.0	8 19	22 17.58	-8 41.7	1.719	2.726	2.6	20.1
8 29	22 8.90	-8 5.2	1.183	2.190	2.5	19.9	8 29	22 9.52	-9 36.2	1.723	2.730	1.9	20.1
9 8	22 0.37	-9 29.5	1.221	2.205	7.6	20.3	9 8	22 1.91	-10 28.8	1.754	2.735	6.1	20.4
9 18	21 53.79	-10 42.6	1.283	2.219	12.4	20.6	9 18	21 55.62	-11 14.4	1.811	2.739	10.0	20.6
9 28	21 49.96	-11 38.6	1.366	2.233	16.5	20.9	9 28	21 51.31	-11 49.1	1.892	2.743	13.3	20.8
961119	1091 T-3	8 24.3 292°32		4°6/28.9 18			310020	2009 QH ₁₄	8 24.3 320°25		2°7/26.4 15		
7 20	22 33.99	+ 4 20.0	2.247	3.045	13.8	19.5	7 20	22 34.25	-2 2.4	1.390	2.247	17.7	21.0
7 30	22 29.90	+ 4 31.7	2.158	3.038	11.3	19.3	7 30	22 31.02	-2 20.2	1.312	2.238	14.0	20.7
8 9	22 24.15	+ 4 26.9	2.089	3.031	8.5	19.1	8 9	22 25.31	-3 0.0	1.254	2.229	9.5	20.5
8 19	22 17.22	+ 4 5.6	2.045	3.025	5.9	18.9	8 19	22 17.74	-3 59.2	1.218	2.220	4.8	20.2
8 29	22 9.76	+ 3 29.7	2.028	3.018	4.6	18.8	8 29	22 9.33	-5 11.9	1.206	2.212	3.1	20.0
9 8	22 2.58	+ 2 43.1	2.038	3.012	6.0	18.9	9 8	22 1.36	-6 29.5	1.219	2.204	7.4	20.3
9 18	21 56.41	+ 1 50.7	2.074	3.005	8.7	19.1	9 18	21 55.02	-7 43.0	1.256	2.197	12.2	20.5
9 28	21 51.88	+ 0 57.7	2.135	2.999	11.5	19.2	9 28	21 51.21	-8 45.0	1.314	2.190	16.5	20.8
56543	2000 HT ₆₄	8 24.3 13°61		3°4/22.3 18			444280	2005 UK ₄₂₆	8 24.3 283°78		0°1/24.3 18		
7 20	22 39.60	-17 12.4	1.256	2.148	17.0	18.3	7 20	22 34.94	-8 54.8	2.159	3.013	12.4	22.1
7 30	22 35.12	-17 35.4	1.200	2.150	12.8	18.0	7 30	22 30.69	-9 18.1	2.073	3.002	9.4	21.9
8 9	22 27.81	-18 3.3	1.164	2.153	8.0	17.8	8 9	22 24.69	-9 51.1	2.010	2.992	5.9	21.7
8 19	22 18.54	-18 29.3	1.151	2.157	3.9	17.5	8 19	22 17.43	-10 30.8	1.973	2.981	2.1	21.4
8 29	22 8.65	-18 46.1	1.162	2.162	5.0	17.6	8 29	22 9.63	-11 12.7	1.963	2.970	1.9	21.4
9 8	21 59.62	-18 48.3	1.196	2.167	9.6	17.9	9 8	22 2.14	-11 52.1	1.982	2.960	5.7	21.6
9 18	21 52.70	-18 33.9	1.253	2.174	14.0	18.2	9 18	21 55.73	-12 24.9	2.027	2.949	9.4	21.8
9 28	21 48.71	-18 3.3	1.330	2.180	17.9	18.4	9 28	21 51.07	-12 48.2	2.095	2.939	12.5	22.0
479821	2014 FL ₅₇	8 24.3 144°37		0°9/25.3 18			266253	2006 YB ₄	8 24.3 163°43		0°1/24.3 17		
7 20	22 37.54	-5 57.7	2.484	3.316	11.7	22.3	7 20	22 40.92	-9 13.9	1.892	2.742	14.0	21.0
7 30	22 32.24	-6 17.1	2.412	3.327	8.9	22.1	7 30	22 35.27	-9 31.1	1.820	2.747	10.6	20.8
8 9	22 25.44	-6 46.3	2.364	3.338	5.7	21.9	8 9	22 27.56	-9 58.3	1.770	2.751	6.7	20.5
8 19	22 17.62	-7 22.6	2.343	3.348	2.4	21.7	8 19	22 18.43	-10 31.7	1.747	2.755	2.4	20.3
8 29	22 9.46	-8 2.5	2.351	3.358	1.6	21.7	8 29	22 8.78	-11 6.7	1.751	2.758	2.1	20.3
9 8	22 1.68	-8 42.0	2.388	3.367	4.8	21.9	9 8	21 59.64	-11 38.2	1.783	2.760	6.3	20.5
9 18	21 54.94	-9 17.5	2.453	3.375	8.0	22.2	9 18	21 51.92	-12 2.5	1.842	2.762	10.2	20.8
9 28	21 49.77	-9 46.2	2.544	3.383	10.7	22.3	9 28	21 46.33	-12 16.8	1.924	2.764	13.6	21.0
9432	Iba	8 24.3 139°22		0°5/23.9 18			435598	2008 SB ₃₆	8 24.3 355°44		3°4/26.9 18		
7 20	22 36.79	-8 4.8	1.545	2.411	15.8	18.3	7 20	22 28.64	-0 46.7	1.143	2.018	19.6	20.3
7 30	22 32.60	-9 1.9	1.478	2.414	11.9	18.1	7 30	22 27.09	-1 1.6	1.077	2.011	15.5	20.0
8 9	22 26.10	-10 14.7	1.432	2.417	7.4	17.8	8 9	22 22.97	-1 43.3	1.028	2.006	10.8	19.8
8 19	22 17.94	-11 37.3	1.410	2.419	2.5	17.5	8 19	22 16.93	-2 49.3	1.000	2.002	5.8	19.5
8 29	22 9.15	-13 1.4	1.415	2.421	2.7	17.6	8 29	22 10.09	-4 12.6	0.994	2.000	3.6	19.3
9 8	22 0.91	-14 18.3	1.446	2.424	7.5	17.9	9 8	22 3.82	-5 42.4	1.010	1.999	7.8	19.6
9 18	21 54.25	-15 21.2	1.502	2.426	11.9	18.1	9 18	21 59.33	-7 7.7	1.049	2.000	12.8	19.9
9 28	21 49.97	-16 6.3	1.580	2.428	15.7	18.4	9 28	21 57.55	-8 19.2	1.107	2.003	17.4	20.1
69940	1998 UD ₂₆	8 24.3 150°59		6°4/17.5 18			360664	2004 RB ₁₃₆	8 24.3 343°97		1°6/22.8 15		
7 20	22 40.19	-29 4.2	2.251	3.119	11.4	19.3	7 20	22 35.33	-13 47.3	2.042	2.911	12.4	21.1
7 30	22 34.57	-30 17.1	2.199	3.126	9.1	19.2	7 30	22 31.01	-14 20.2	1.970	2.908	9.3	20.9
8 9	22 27.04	-31 25.1	2.172	3.133	7.1	19.1	8 9	22 24.89	-14 59.6	1.920	2.906	5.7	20.7
8 19	22 18.20	-32 21.4	2.170	3.139	6.4	19.1	8 19	22 17.49	-15 41.1	1.896	2.904	2.2	20.5
8 29	22 8.95	-33 0.0	2.196	3.145	7.5	19.1	8 29	22 9.62	-16 19.7	1.900	2.903	3.0	20.5
9 8	22 0.25	-33 18.0	2.247	3.150	9.7	19.3	9 8	22 2.17	-16 50.5	1.931	2.901	6.6	20.7
9 18	21 52.94	-33 14.7	2.323	3.155	11.9	19.4	9 18	21 55.93	-17 10.4	1.988	2.900	10.1	21.0
9 28	21 47.65	-32 52.0	2.419	3.159	14.0	19.6	9 28	21 51.55	-17 17.6	2.067	2.899	13.1	21.2
292907	2006 VD ₅₀	8 24.3 301°43		2°4/22.6 18			178509	1999 TX ₁₆₃	8 24.3 306°55		2°9/22.2 17		
7 20	22 37.40	-13 42.8	1.371	2.256	16.3	20.7	7 20	22 36.20	-13 56.0	1.308	2.198	16.6	20.4
7 30													

EPHEMERIDES

8 24.3

8 24.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
431794	2008 QX ₇		8 24.3 349°99	4°9/20.2	18		291916	2006 QW ₁₇		8 24.3 334°40	6°1/20.2	18	
7 20	22 35.15	-18 3.8	1.421	2.314	15.3	20.0	7 20	22 33.51	-19 15.7	1.058	1.970	17.8	19.6
7 30	22 31.67	-19 29.3	1.360	2.311	11.5	19.8	7 30	22 31.29	-20 25.3	0.993	1.953	13.6	19.3
8 9	22 25.67	-21 2.0	1.321	2.309	7.5	19.6	8 9	22 25.91	-21 43.0	0.947	1.938	9.0	19.0
8 19	22 17.84	-22 32.4	1.306	2.307	4.9	19.4	8 19	22 18.07	-22 58.0	0.922	1.924	6.1	18.8
8 29	22 9.31	-23 50.1	1.316	2.305	6.6	19.5	8 29	22 9.15	-23 57.4	0.918	1.911	8.1	18.9
9 8	22 1.38	-24 46.8	1.350	2.304	10.5	19.7	9 8	22 0.90	-24 31.5	0.936	1.899	12.7	19.1
9 18	21 55.20	-25 18.5	1.406	2.303	14.5	20.0	9 18	21 54.85	-24 35.8	0.973	1.888	17.6	19.3
9 28	21 51.63	-25 24.9	1.482	2.303	17.9	20.2	9 28	21 52.11	-24 10.8	1.026	1.879	21.8	19.6
320306	2007 SX ₂		8 24.3 319°51	5°1/21.5	18		290359	2005 SX ₂₆₂		8 24.3 115°12	2°3/21.9	18	
7 20	22 39.63	-19 22.9	1.139	2.039	17.8	19.9	7 20	22 36.99	-16 25.1	2.291	3.156	11.4	20.8
7 30	22 35.78	-20 0.1	1.069	2.023	13.6	19.6	7 30	22 32.01	-17 4.4	2.228	3.165	8.4	20.6
8 9	22 28.65	-20 42.2	1.019	2.008	8.9	19.3	8 9	22 25.38	-17 47.3	2.190	3.174	5.3	20.4
8 19	22 19.00	-21 20.4	0.989	1.993	5.3	19.0	8 19	22 17.66	-18 29.4	2.178	3.183	2.6	20.3
8 29	22 8.26	-21 44.7	0.983	1.979	6.8	19.1	8 29	22 9.59	-19 5.9	2.194	3.192	3.5	20.4
9 8	21 58.19	-21 47.9	0.999	1.966	11.6	19.3	9 8	22 1.96	-19 32.9	2.239	3.200	6.5	20.6
9 18	21 50.40	-21 27.5	1.036	1.954	16.5	19.5	9 18	21 55.50	-19 48.1	2.309	3.208	9.5	20.8
9 28	21 45.99	-20 44.6	1.090	1.942	20.9	19.8	9 28	21 50.77	-19 50.6	2.404	3.216	12.1	21.0
339271	2004 WX ₉		8 24.3 260°73	3°0/27.3	18		187461	2005 XM ₆₅		8 24.3 69°00	3°5/20.7	18	
7 20	22 34.29	+ 1 14.3	1.919	2.742	14.9	20.9	7 20	22 35.78	-19 18.6	2.142	3.016	11.7	20.0
7 30	22 30.47	+ 0 39.1	1.825	2.728	11.9	20.7	7 30	22 31.24	-20 14.1	2.085	3.026	8.7	19.8
8 9	22 24.71	- 0 16.9	1.752	2.714	8.4	20.5	8 9	22 24.97	-21 11.7	2.052	3.035	5.7	19.6
8 19	22 17.50	- 1 31.6	1.704	2.700	4.7	20.2	8 19	22 17.53	-22 5.9	2.045	3.045	3.6	19.5
8 29	22 9.59	- 3 0.2	1.683	2.686	3.1	20.1	8 29	22 9.72	-22 51.0	2.066	3.054	4.7	19.6
9 8	22 1.95	- 4 35.5	1.689	2.671	6.0	20.2	9 8	22 2.39	-23 22.7	2.114	3.064	7.5	19.8
9 18	21 55.45	- 6 9.7	1.722	2.657	9.9	20.4	9 18	21 56.30	-23 39.0	2.187	3.074	10.4	20.0
9 28	21 50.88	- 7 35.4	1.779	2.642	13.5	20.6	9 28	21 52.05	-23 39.5	2.282	3.083	13.0	20.2
169958	2002 TP ₁₀₁		8 24.3 316°14	2°8/26.8	18		92133	1999 XL ₁₀₉		8 24.3 270°92	4°0/19.8	18	
7 20	22 35.54	- 1 31.1	1.892	2.726	14.7	20.2	7 20	22 36.15	-21 33.3	2.442	3.312	10.6	19.2
7 30	22 31.30	- 1 36.2	1.813	2.724	11.6	20.0	7 30	22 31.57	-22 31.7	2.354	3.291	8.0	19.0
8 9	22 25.14	- 1 57.3	1.756	2.723	8.0	19.8	8 9	22 25.27	-23 32.2	2.291	3.270	5.5	18.8
8 19	22 17.61	- 2 32.5	1.723	2.721	4.4	19.5	8 19	22 17.69	-24 29.2	2.255	3.249	4.0	18.7
8 29	22 9.53	- 3 18.1	1.716	2.720	3.0	19.4	8 29	22 9.53	-25 17.1	2.247	3.227	5.2	18.7
9 8	22 1.83	- 4 8.9	1.736	2.718	5.9	19.6	9 8	22 1.61	-25 51.6	2.266	3.205	7.8	18.9
9 18	21 55.38	- 4 59.2	1.783	2.717	9.6	19.9	9 18	21 54.72	-26 10.1	2.311	3.183	10.6	19.0
9 28	21 50.89	- 5 43.8	1.852	2.715	13.0	20.1	9 28	21 49.52	-26 11.8	2.379	3.161	13.1	19.1
27741	1990 UJ ₄		8 24.3 56°90	8°4/18.1	18		43271	2000 EQ ₁₃		8 24.3 340°38	1°3/23.1	18	
7 20	22 41.17	-27 27.2	1.383	2.274	15.8	17.0	7 20	22 33.87	-10 40.7	1.665	2.539	14.5	18.1
7 30	22 36.18	-28 53.7	1.344	2.286	12.4	16.8	7 30	22 30.34	-11 34.5	1.593	2.534	10.9	17.9
8 9	22 28.39	-30 14.5	1.327	2.298	9.5	16.6	8 9	22 24.69	-12 40.6	1.543	2.530	6.7	17.7
8 19	22 18.75	-31 18.8	1.332	2.311	8.4	16.6	8 19	22 17.51	-13 53.5	1.518	2.527	2.4	17.4
8 29	22 8.62	-31 57.5	1.361	2.324	9.8	16.7	8 29	22 9.71	-15 5.5	1.519	2.523	3.1	17.4
9 8	21 59.49	-32 6.7	1.413	2.337	12.7	16.9	9 8	22 2.36	-16 9.3	1.546	2.520	7.4	17.7
9 18	21 52.53	-31 47.2	1.487	2.350	15.8	17.2	9 18	21 56.41	-16 59.3	1.598	2.518	11.6	17.9
9 28	21 48.49	-31 3.0	1.578	2.363	18.5	17.4	9 28	21 52.64	-17 32.1	1.671	2.515	15.1	18.2
84583	2002 VE ₂₇		8 24.3 347°36	1°5/23.1	18		95616	2002 GJ ₇		8 24.3 208°64	3°0/21.3	18	
7 20	22 36.16	-12 42.8	1.732	2.605	14.1	19.9	7 20	22 39.18	-17 38.6	2.272	3.136	11.5	20.4
7 30	22 31.94	-13 13.9	1.661	2.602	10.5	19.6	7 30	22 33.83	-18 31.9	2.194	3.129	8.6	20.2
8 9	22 25.62	-13 53.6	1.613	2.600	6.5	19.4	8 9	22 26.65	-19 29.3	2.139	3.122	5.5	20.0
8 19	22 17.80	-14 37.0	1.589	2.598	2.4	19.1	8 19	22 18.16	-20 25.4	2.112	3.114	3.1	19.8
8 29	22 9.40	-15 18.2	1.592	2.596	3.0	19.2	8 29	22 9.13	-21 14.7	2.114	3.106	4.2	19.9
9 8	22 1.50	-15 51.5	1.621	2.594	7.2	19.4	9 8	22 0.46	-21 52.3	2.143	3.097	7.2	20.0
9 18	21 55.04	-16 13.0	1.674	2.593	11.2	19.7	9 18	21 52.95	-22 15.5	2.199	3.087	10.4	20.2
9 28	21 50.74	-16 20.7	1.750	2.592	14.6	19.9	9 28	21 47.27	-22 23.3	2.278	3.077	13.1	20.4
27875	1996 BL ₃		8 24.3 141°06	0°2/24.5	18		320551	2008 AL ₃₈		8 24.3 66°60	0°7/24.9	17	
7 20	22 38.32	- 7 4.8	1.818	2.669	14.5	19.2	7 20	22 37.12	- 5 20.3	1.347	2.213	17.7	21.0
7 30	22 33.38	- 7 48.0	1.750	2.678	11.0	19.0	7 30	22 32.97	- 6 6.7	1.293	2.228	13.5	20.8
8 9	22 26.43	- 8 44.6	1.705	2.686	6.9	18.8	8 9	22 26.36	- 7 12.1	1.260	2.242	8.6	20.5
8 19	22 18.07	- 9 50.1	1.686	2.694	2.5	18.6	8 19	22 18.08	- 8 30.5	1.250	2.257	3.3	20.3
8 29	22 9.21	-10 58.1	1.694	2.701	2.0	18.5	8 29	22 9.26	- 9 53.4	1.264	2.272	2.3	20.3
9 8	22 0.86	-12 1.9	1.730	2.708	6.4	18.8	9 8	22 1.20	-11 11.3	1.305	2.287	7.4	20.6
9 18	21 53.92	-12 56.2	1.792	2.714	10.4	19.1	9 18	21 54.95	-12 16.8	1.369	2.302	12.1	20.9
9 28	21 49.08	-13 37.2	1.877	2.720	13.8	19.3	9 28	21 51.28	-13 5.3	1.455	2.317	16.0	21.2
263186	2007 YK ₁₄		8 24.3 106°22	2°0/22.9	17		137820	2000 AL ₆		8 24.3 170°40	0°5/23.9	17	
7 20	22 42.29	-13 46.9	1.542	2.413	15.6	20.7	7 20	22 39.96	- 9 51.2	1.899	2.754	13.8	21.0
7 30	22 36.60	-14 20.9	1.487	2.426	11.6	20.5	7 30	22 34.59	-10 25.9	1.827	2.757	10.4	20.8
8 9	22 28.51	-15 2.7	1.453	2.439	7.2	20.3	8 9	22 27.19	-11 10.9	1.778	2.760	6.5	20.5
8 19	22 18.80	-15 46.2	1.444	2.452	2.8	20.0	8 19	22 18.36	-12 1.9	1.754	2.763	2.2	20.3
8 29	22 8.60	-16 24.5	1.461	2.464	3.6	20.1	8 29	22 8.98	-12 53.1	1.759	2.765	2.3	20.3
9 8	21 59.19	-16 52.1	1.505	2.476	8.0	20.4	9 8	22 0.09	-13 38.8	1.791	2.766	6.5	20.6
9 18	21 51.59	-17 5.7	1.573	2.488	12.1	20.7	9 18	21 52.59	-14 14.7	1.849	2.767	10.4	20.8
9 28	21 46.55	-17 4.4	1.663	2.499	15.6	20.9	9 28	21 47.18	-14 38.2	1.931	2.767	13.7	21.0
209761	2005 EK ₂₄₅		8 24.3 151°91	0°5/24.7	18		142766	2002 UA ₅		8 24.3 267°82	0°1/24.4	18	
7 20	22 36.32	- 7 19.8	1										

EPHEMERIDES

8 24.3

8 24.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
343959	2011 <i>KY</i> ₃₃		8 24.3 81°16'	1.6°/25.6	16		432288	2009 <i>SS</i> ₂₃₅		8 24.3 306°72'	2.2°/28.3	17	
7 20	22 40.32	- 5 9.1	1.727	2.572	15.4	21.3	7 20	22 27.73	+ 1 53.0	4.330	5.120	7.8	20.9
7 30	22 34.77	- 5 19.4	1.674	2.595	11.8	21.1	7 30	22 24.51	+ 1 46.3	4.235	5.115	6.2	20.8
8 9	22 27.19	- 5 43.3	1.643	2.619	7.7	20.9	8 9	22 20.50	+ 1 31.3	4.165	5.110	4.5	20.6
8 19	22 18.31	- 6 17.6	1.637	2.642	3.4	20.7	8 19	22 15.96	+ 1 8.8	4.121	5.105	2.9	20.5
8 29	22 9.08	- 6 57.5	1.658	2.665	2.2	20.7	8 29	22 11.20	+ 0 40.2	4.106	5.100	2.2	20.5
9 8	22 0.56	- 7 37.5	1.706	2.687	6.1	21.0	9 8	22 6.58	+ 0 7.3	4.120	5.095	3.1	20.5
9 18	21 53.60	- 8 12.7	1.780	2.710	10.0	21.3	9 18	22 2.43	- 0 27.5	4.163	5.091	4.8	20.6
9 28	21 48.84	- 8 39.7	1.878	2.732	13.3	21.5	9 28	21 59.05	- 1 2.0	4.232	5.086	6.5	20.8
401599	2013 <i>GO</i> ₂₄		8 24.3 69°80'	2°3'/21.4	18		509244	2006 <i>TU</i> ₁₀₅		8 24.3 324°77'	5°4'/21.0	17	
7 20	22 33.00	-13 6.8	2.182	3.050	11.8	19.9	7 20	22 36.69	-19 29.9	1.136	2.041	17.5	21.0
7 30	22 29.16	-14 39.3	2.120	3.059	8.7	19.8	7 30	22 33.65	-20 16.0	1.063	2.020	13.4	20.7
8 9	22 23.70	-16 20.2	2.083	3.070	5.3	19.6	8 9	22 27.41	-21 8.1	1.009	1.999	8.9	20.4
8 19	22 17.11	-18 2.9	2.074	3.080	2.5	19.4	8 19	22 18.66	-21 57.0	0.977	1.980	5.6	20.2
8 29	22 10.10	-19 40.0	2.093	3.090	3.7	19.5	8 29	22 8.76	-22 32.0	0.966	1.961	7.2	20.2
9 8	22 3.48	-21 5.1	2.141	3.100	6.9	19.7	9 8	21 59.42	-22 45.0	0.978	1.944	11.9	20.4
9 18	21 57.96	-22 13.8	2.216	3.110	10.0	19.9	9 18	21 52.23	-22 32.4	1.009	1.927	16.9	20.6
9 28	21 54.12	-23 3.8	2.313	3.120	12.7	20.1	9 28	21 48.36	-21 54.7	1.058	1.912	21.3	20.9
151698	2003 <i>AH</i> ₈₄		8 24.3 301°37'	1°1'/25.1	18		518636	2008 <i>HJ</i> ₇₁		8 24.3 0°06'	5°4'/20.1	17	
7 20	22 36.56	- 6 34.4	1.455	2.321	16.6	19.6	7 20	22 35.24	-18 38.4	1.263	2.163	16.4	20.3
7 30	22 32.85	- 6 45.6	1.366	2.300	12.9	19.3	7 30	22 32.01	-20 2.8	1.207	2.162	12.3	20.0
8 9	22 26.57	- 7 13.0	1.298	2.279	8.4	19.0	8 9	22 26.03	-21 34.1	1.172	2.161	8.1	19.8
8 19	22 18.28	- 7 53.6	1.252	2.259	3.5	18.7	8 19	22 18.06	-23 1.8	1.160	2.160	5.5	19.6
8 29	22 9.00	- 8 42.1	1.231	2.239	2.4	18.6	8 29	22 9.36	-24 14.5	1.171	2.161	7.3	19.7
9 8	22 0.02	- 9 31.3	1.236	2.219	7.6	18.8	9 8	22 1.37	-25 3.9	1.206	2.162	11.3	20.0
9 18	21 52.61	-10 14.2	1.264	2.199	12.6	19.1	9 18	21 55.33	-25 26.2	1.262	2.163	15.4	20.2
9 28	21 47.78	-10 45.5	1.312	2.180	17.0	19.3	9 28	21 52.13	-25 21.7	1.336	2.166	19.0	20.5
478976	2012 <i>XU</i> ₁₀₅		8 24.3 299°21'	7°0'/17.8	18		154601	2003 <i>PO</i> ₂		8 24.3 53°19'	2°7'/26.5	18	
7 20	22 37.12	-25 26.3	1.707	2.594	13.6	20.6	7 20	22 38.37	- 3 17.3	2.076	2.906	13.7	19.4
7 30	22 33.10	-26 52.5	1.631	2.572	10.6	20.4	7 30	22 33.15	- 2 55.4	2.007	2.917	10.7	19.2
8 9	22 26.62	-28 19.5	1.577	2.551	8.0	20.2	8 9	22 26.17	- 2 45.2	1.961	2.928	7.3	19.0
8 19	22 18.26	-29 38.2	1.547	2.530	7.0	20.1	8 19	22 18.00	- 2 45.7	1.941	2.939	4.0	18.8
8 29	22 9.04	-30 39.0	1.543	2.508	8.6	20.1	8 29	22 9.44	- 2 54.5	1.948	2.951	2.8	18.8
9 8	22 0.20	-31 15.4	1.563	2.487	11.7	20.3	9 8	22 1.35	- 3 8.2	1.983	2.963	5.5	19.0
9 18	21 52.91	-31 24.8	1.605	2.467	14.9	20.4	9 18	21 54.51	- 3 23.3	2.044	2.974	8.8	19.2
9 28	21 48.11	-31 8.0	1.666	2.446	17.9	20.6	9 28	21 49.53	- 3 36.4	2.130	2.987	11.8	19.4
374264	2005 <i>JC</i> ₁₄₂		8 24.3 58°58'	2°3'/22.7	16		504928	2011 <i>CO</i> ₂		8 24.3 278°55'	12°2'/8.0	18	
7 20	22 39.39	-12 51.1	1.267	2.152	17.4	21.1	7 20	22 46.82	-38 11.0	1.825	2.682	14.2	22.7
7 30	22 34.75	-13 44.4	1.224	2.171	12.9	20.9	7 30	22 41.49	-41 14.9	1.744	2.642	12.7	22.5
8 9	22 27.47	-14 48.3	1.202	2.191	7.9	20.7	8 9	22 32.68	-44 15.5	1.688	2.600	12.2	22.3
8 19	22 18.47	-15 54.5	1.202	2.210	3.1	20.4	8 19	22 20.73	-46 57.3	1.658	2.556	13.0	22.3
8 29	22 9.03	-16 54.0	1.228	2.230	4.1	20.6	8 29	22 6.73	-49 5.6	1.653	2.512	15.0	22.3
9 8	22 0.53	-17 39.4	1.277	2.250	8.8	20.9	9 8	21 52.42	-50 31.1	1.670	2.466	17.5	22.4
9 18	21 54.08	-18 6.5	1.350	2.271	13.2	21.2	9 18	21 39.74	-51 11.9	1.705	2.418	20.1	22.5
9 28	21 50.40	-18 14.4	1.443	2.291	16.9	21.5	9 28	21 30.39	-51 12.2	1.753	2.370	22.3	22.6
136907	1998 <i>HS</i> ₈₆		8 24.3 24°56'	9°2'/31.5	17		37459	6037 <i>P-L</i>		8 24.3 334°75'	5°8'/21.4	18	
7 20	22 31.24	+ 8 40.6	0.952	1.800	24.7	18.7	7 20	22 40.31	-22 34.4	1.201	2.100	17.2	17.7
7 30	22 29.23	+ 9 18.2	0.911	1.815	20.7	18.5	7 30	22 36.21	-22 51.3	1.130	2.081	13.2	17.4
8 9	22 24.33	+ 9 17.4	0.883	1.831	16.2	18.3	8 9	22 28.89	-23 6.9	1.077	2.064	9.0	17.1
8 19	22 17.43	+ 8 37.0	0.873	1.850	11.9	18.2	8 19	22 19.15	-23 13.2	1.047	2.047	5.9	16.9
8 29	22 9.91	+ 7 21.6	0.882	1.869	9.3	18.1	8 29	22 8.39	-23 2.1	1.039	2.032	7.2	17.0
9 8	22 3.33	+ 5 42.7	0.911	1.891	10.2	18.2	9 8	21 58.36	-22 29.1	1.054	2.018	11.5	17.1
9 18	21 58.90	+ 3 54.7	0.961	1.914	13.6	18.5	9 18	21 50.56	-21 34.1	1.090	2.006	16.1	17.4
9 28	21 57.46	+ 2 11.2	1.031	1.937	17.4	18.8	9 28	21 46.06	-20 20.0	1.145	1.995	20.2	17.6
16139	1999 <i>XO</i> ₁₂₀		8 24.3 128°48'	3°7'/20.4	18		509618	2008 <i>FA</i> ₁₀		8 24.3 141°81'	1°4'/23.1	18	
7 20	22 37.33	-21 48.0	2.526	3.393	10.4	18.2	7 20	22 39.44	-14 34.4	2.313	3.169	11.6	22.1
7 30	22 32.17	-22 32.9	2.466	3.401	7.8	18.1	7 30	22 33.84	-14 49.7	2.243	3.175	8.6	22.0
8 9	22 25.46	-23 17.6	2.431	3.410	5.2	17.9	8 9	22 26.55	-15 9.1	2.196	3.180	5.3	21.8
8 19	22 17.72	-23 57.4	2.422	3.417	3.7	17.8	8 19	22 18.14	-15 29.2	2.177	3.185	2.1	21.5
8 29	22 9.66	-24 28.0	2.443	3.425	4.6	17.9	8 29	22 9.34	-15 46.1	2.187	3.190	2.6	21.6
9 8	22 2.02	-24 46.1	2.491	3.433	7.0	18.1	9 8	22 1.00	-15 56.6	2.225	3.194	5.9	21.8
9 18	21 55.50	-24 50.4	2.565	3.440	9.5	18.3	9 18	21 53.85	-15 58.6	2.290	3.199	9.1	22.0
9 28	21 50.62	-24 40.9	2.662	3.447	11.8	18.4	9 28	21 48.46	-15 51.1	2.380	3.203	11.9	22.2
445393	2010 <i>SZ</i> ₅		8 24.3 104°25'	0°9'/23.4	18		123297	2000 <i>UC</i> ₁₀₅		8 24.3 282°52'	10°5'/15.1	18	
7 20	22 36.54	-12 22.2	2.325	3.182	11.5	21.4	7 20	22 43.63	-35 45.1	1.688	2.558	14.5	19.5
7 30	22 31.65	-12 47.5	2.259	3.191	8.6	21.2	7 30	22 38.17	-37 11.9	1.629	2.545	12.3	19.3
8 9	22 25.17	-13 18.9	2.216	3.200	5.3	21.0	8 9	22 29.84	-38 28.2	1.591	2.533	10.8	19.2
8 19	22 17.63	-13 52.7	2.200	3.209	1.9	20.8	8 19	22 19.42	-39 23.6	1.577	2.520	10.6	19.2
8 29	22 9.74	-14 25.0	2.213	3.217	2.2	20.8	8 29	22 8.20	-39 49.3	1.586	2.507	11.9	19.2
9 8	22 2.27	-14 51.8	2.254	3.226	5.6	21.1	9 8	21 57.72	-39 41.7	1.617	2.494	14.2	19.3
9 18	21 55.92	-15 10.4	2.321	3.234	8.8	21.3	9 18	21 49.26	-39 2.0	1.669	2.481	16.7	19.5
9 28	21 51.23	-15 19.0	2.413	3.243	11.5	21.5	9 28	21 43.76	-37 54.9	1.738	2.468	19.1	19.6
98012	2000 <i>QK</i> ₂₁₃	</											

EPHEMERIDES

8 24.3

8 24.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
220867	2004 <i>WF</i> ₁₀		8 24.3 238°76	0°8/25.2	18		20496	Jeník		8 24.3 310°16	3°1/21.0	18	
7 20	22 34.86	- 6 41.3	2.624	3.461	11.0	21.3	7 20	22 32.64	-15 12.1	1.933	2.812	12.6	18.6
7 30	22 30.35	- 6 55.4	2.534	3.453	8.4	21.1	7 30	22 29.33	-16 31.5	1.850	2.795	9.4	18.4
8 9	22 24.39	- 7 18.6	2.469	3.444	5.4	20.9	8 9	22 24.08	-18 0.2	1.790	2.778	5.9	18.1
8 19	22 17.40	- 7 48.5	2.430	3.435	2.2	20.7	8 19	22 17.39	-19 31.7	1.757	2.761	3.2	17.9
8 29	22 9.98	- 8 22.0	2.420	3.427	1.5	20.6	8 29	22 10.03	-20 58.0	1.751	2.745	4.6	18.0
9 8	22 2.80	- 8 55.6	2.438	3.417	4.7	20.8	9 8	22 2.95	-22 11.7	1.771	2.729	8.1	18.2
9 18	21 56.52	- 9 26.0	2.485	3.408	7.8	21.0	9 18	21 57.05	-23 7.8	1.816	2.713	11.7	18.4
9 28	21 51.67	- 9 50.2	2.556	3.399	10.6	21.2	9 28	21 53.08	-23 43.7	1.883	2.698	14.9	18.6
332020	2005 <i>NR</i> ₁₂₄		8 24.3 30°21	5°4/28.1	17		188415	2004 <i>FF</i>		8 24.3 193°61	1°9/22.7	18	
7 20	22 36.73	+ 1 39.0	1.282	2.128	19.7	20.4	7 20	22 40.11	-13 23.1	1.880	2.743	13.6	21.4
7 30	22 32.89	+ 2 3.0	1.222	2.135	15.8	20.1	7 30	22 34.84	-14 9.0	1.806	2.741	10.1	21.2
8 9	22 26.47	+ 2 3.3	1.181	2.143	11.5	19.9	8 9	22 27.45	-15 3.2	1.754	2.739	6.3	21.0
8 19	22 18.22	+ 1 40.2	1.160	2.151	7.3	19.7	8 19	22 18.56	-16 0.2	1.729	2.737	2.5	20.7
8 29	22 9.31	+ 0 57.3	1.162	2.161	5.4	19.6	8 29	22 9.06	-16 53.4	1.732	2.733	3.4	20.8
9 8	22 1.09	+ 0 2.1	1.188	2.171	8.0	19.8	9 8	22 0.02	-17 37.1	1.762	2.729	7.3	21.0
9 18	21 54.72	- 0 57.0	1.237	2.181	12.1	20.1	9 18	21 52.38	-18 7.4	1.817	2.725	11.1	21.3
9 28	21 51.03	- 1 52.0	1.308	2.192	16.0	20.4	9 28	21 46.89	-18 22.4	1.896	2.720	14.4	21.5
348133	2004 <i>BD</i> ₉₇		8 24.3 271°61	0°9/23.5	18		433201	2012 <i>UT</i> ₅₇		8 24.3 73°63	13°4/12.4	18	
7 20	22 36.05	-10 26.3	2.060	2.918	12.7	21.3	7 20	22 35.56	+31 0.3	1.953	2.567	20.8	20.6
7 30	22 31.78	-11 9.9	1.964	2.897	9.6	21.1	7 30	22 31.52	+31 45.3	1.888	2.583	19.3	20.5
8 9	22 25.58	-12 4.4	1.892	2.876	6.0	20.8	8 9	22 25.41	+31 56.8	1.835	2.599	17.5	20.4
8 19	22 17.91	-13 5.7	1.845	2.854	2.1	20.6	8 19	22 17.83	+31 30.4	1.797	2.615	15.8	20.3
8 29	22 9.54	-14 8.0	1.827	2.832	2.5	20.5	8 29	22 9.71	+30 24.6	1.777	2.632	14.3	20.3
9 8	22 1.38	-15 5.3	1.836	2.810	6.6	20.8	9 8	22 2.12	+28 42.8	1.778	2.648	13.5	20.2
9 18	21 54.33	-15 52.5	1.872	2.787	10.4	21.0	9 18	21 55.96	+26 32.4	1.802	2.664	13.5	20.3
9 28	21 49.16	-16 26.3	1.930	2.764	13.8	21.1	9 28	21 51.96	+24 4.1	1.848	2.680	14.4	20.4
25477	Preyashah		8 24.3 234°44	0°4/24.1	18		24307	1999 <i>YB</i> ₇		8 24.3 241°12	7°4/15.4	18	
7 20	22 39.75	- 9 49.6	1.597	2.461	15.5	20.0	7 20	22 39.22	-34 47.3	2.507	3.366	10.7	18.5
7 30	22 34.90	-10 13.5	1.522	2.456	11.8	19.8	7 30	22 33.93	-35 57.8	2.448	3.359	9.0	18.4
8 9	22 27.65	-10 49.4	1.467	2.451	7.4	19.5	8 9	22 26.76	-37 0.6	2.413	3.352	7.7	18.3
8 19	22 18.65	-11 32.8	1.437	2.446	2.6	19.2	8 19	22 18.28	-37 49.4	2.403	3.344	7.5	18.3
8 29	22 8.93	-12 17.5	1.434	2.440	2.5	19.2	8 29	22 9.33	-38 18.8	2.419	3.337	8.5	18.3
9 8	21 59.70	-12 57.2	1.456	2.434	7.4	19.5	9 8	22 0.82	-38 26.2	2.461	3.329	10.2	18.4
9 18	21 52.06	-13 26.9	1.504	2.428	11.8	19.7	9 18	21 53.60	-38 11.6	2.525	3.321	12.1	18.5
9 28	21 46.86	-13 43.5	1.573	2.422	15.7	20.0	9 28	21 48.31	-37 36.9	2.608	3.313	13.9	18.7
55449	2001 <i>TB</i> ₁₁₈		8 24.3 48°58	2°9/26.2	18		95480	2002 <i>ER</i> ₁₅		8 24.4 257°56	2°4/26.2	18	
7 20	22 42.64	- 4 30.6	1.917	2.748	14.6	18.2	7 20	22 39.00	- 3 21.1	1.959	2.791	14.3	20.3
7 30	22 36.55	- 3 49.3	1.842	2.753	11.4	18.0	7 30	22 34.07	- 3 19.6	1.862	2.774	11.3	20.1
8 9	22 28.42	- 3 18.5	1.790	2.757	7.8	17.8	8 9	22 27.06	- 3 31.8	1.786	2.756	7.7	19.8
8 19	22 18.86	- 2 57.7	1.763	2.762	4.2	17.6	8 19	22 18.48	- 3 56.3	1.736	2.737	4.0	19.5
8 29	22 8.79	- 2 45.4	1.764	2.767	3.1	17.6	8 29	22 9.12	- 4 30.0	1.713	2.718	2.7	19.4
9 8	21 59.23	- 2 39.1	1.794	2.772	6.1	17.8	9 8	22 0.00	- 5 8.3	1.718	2.699	6.1	19.6
9 18	21 51.09	- 2 35.7	1.849	2.778	9.7	18.0	9 18	21 52.07	- 5 46.1	1.749	2.679	10.1	19.8
9 28	21 45.07	- 2 32.1	1.929	2.783	13.0	18.2	9 28	21 46.15	- 6 18.9	1.803	2.658	13.7	20.0
14952	1996 <i>CQ</i>		8 24.3 57°89	4°2/21.5	18		513386	2008 <i>GK</i> ₁₃₁		8 24.4 116°55	0°4/24.8	18	
7 20	22 41.13	-18 33.0	1.391	2.277	16.1	17.5	7 20	22 34.38	- 6 31.7	2.372	3.214	11.8	21.9
7 30	22 36.00	-19 18.5	1.343	2.289	12.0	17.3	7 30	22 30.05	- 7 11.8	2.302	3.224	8.9	21.8
8 9	22 28.28	-20 7.5	1.315	2.302	7.7	17.1	8 9	22 24.22	- 8 2.6	2.256	3.234	5.7	21.6
8 19	22 18.81	-20 52.2	1.312	2.315	4.4	16.9	8 19	22 17.37	- 9 0.5	2.237	3.244	2.2	21.4
8 29	22 8.88	-21 24.7	1.333	2.328	5.6	17.0	8 29	22 10.16	-10 1.1	2.246	3.253	1.6	21.3
9 8	21 59.85	-21 40.0	1.380	2.342	9.6	17.3	9 8	22 3.31	-10 59.5	2.283	3.262	5.0	21.6
9 18	21 52.81	-21 36.2	1.449	2.355	13.5	17.5	9 18	21 57.48	-11 51.3	2.349	3.271	8.3	21.8
9 28	21 48.51	-21 14.2	1.539	2.369	16.9	17.8	9 28	21 53.21	-12 33.3	2.439	3.279	11.1	22.0
250059	2002 <i>CK</i> ₃₁₆		8 24.3 87°29	3°8/26.9	17		171050	2005 <i>EK</i> ₁₀₈		8 24.4 220°29	3°9/28.5	18	
7 20	22 41.05	- 1 15.1	1.398	2.242	18.4	20.3	7 20	22 34.08	+ 4 10.6	2.022	2.828	14.9	20.1
7 30	22 35.94	- 1 0.2	1.337	2.252	14.6	20.1	7 30	22 30.19	+ 3 43.1	1.936	2.825	12.1	19.9
8 9	22 28.29	- 1 5.0	1.295	2.263	10.1	19.9	8 9	22 24.50	+ 2 54.7	1.871	2.821	8.8	19.7
8 19	22 18.86	- 1 27.9	1.275	2.273	5.7	19.7	8 19	22 17.52	+ 1 46.9	1.830	2.818	5.6	19.5
8 29	22 8.81	- 2 4.8	1.281	2.284	4.0	19.6	8 29	22 9.99	+ 0 23.8	1.816	2.814	3.9	19.4
9 8	21 59.48	- 2 49.2	1.311	2.294	7.4	19.8	9 8	22 2.77	- 1 8.1	1.830	2.810	5.9	19.5
9 18	21 51.99	- 3 34.2	1.366	2.304	11.7	20.1	9 18	21 56.68	- 2 41.4	1.870	2.806	9.2	19.7
9 28	21 47.17	- 4 13.4	1.443	2.314	15.6	20.4	9 28	21 52.39	- 4 9.0	1.936	2.802	12.4	19.9
185201	2006 <i>TX</i> ₃₆		8 24.3 327°46	1°0/25.2	18		287388	2002 <i>VY</i> ₄₃		8 24.4 323°33	5°1/27.4	18	
7 20	22 35.08	- 6 15.2	1.859	2.713	14.1	21.0	7 20	22 37.92	- 0 9.0	1.615	2.450	16.8	19.2
7 30	22 31.06	- 6 31.3	1.780	2.707	10.8	20.8	7 30	22 33.63	+ 0 41.0	1.526	2.432	13.6	18.9
8 9	22 25.09	- 7 0.4	1.723	2.702	7.0	20.6	8 9	22 26.98	+ 1 15.9	1.456	2.416	10.0	18.7
8 19	22 17.71	- 7 39.4	1.691	2.697	2.9	20.3	8 19	22 18.49	+ 1 34.6	1.409	2.400	6.5	18.4
8 29	22 9.77	- 8 23.9	1.685	2.692	2.0	20.2	8 29	22 9.12	+ 1 37.6	1.388	2.384	5.1	18.3
9 8	22 2.21	- 9 8.3	1.706	2.688	6.1	20.5	9 8	22 0.05	+ 1 28.0	1.391	2.369	7.6	18.4
9 18	21 55.91	- 9 47.7	1.753	2.684	10.0	20.7	9 18	21 52.39	+ 1 10.4	1.419	2.355	11.4	18.6
9 28	21 51.59	-10 17.9	1.823	2.680	13.5	20.9	9 28	21 47.10	+ 0 50.4	1.468	2.342	15.2	18.8
431425	2007 <i>LL</i> ₁₅		8 24.3 355°95	11°5/14.0	18		57971	2002 <i>NJ</i> ₄₁		8 24.4 330°01	4°2/21.9	18	
7 20	22 31.26	-30 2.4	1.137	2.051	16.8	19.0	7 20	22 33.06	-16 41.4	1.017	1.929	18.4	18.6
7 30	22 29.54	-32 20.8	1.094	2.044	13.8	18.8	7 30	22 31.24	-17 15.0	0.939	1.900	14.0	18.3
8 9	22 24.76	-34 32.8	1.072	2.039	11.8	18.7	8 9	22 26.15	-17 58.7	0.879	1.873	9.0	17.9
8 19	22 17.70	-36 22.9	1.070	2.036	11.8	18.7	8 19	22 18.36	-18 44.5	0.839	1.846	4.6	17.5
8 29	22 9.80	-37 37.6	1.089	2.034	13.8	18.8	8 29	22 9.21	-19 21.8	0.820	1.822	6.2	17.6
9 8	22 2.72	-38 10.3	1.128	2.034	16.7	19.0	9 8	22 0.49	-19 40.9	0.822	1.799	11.7	17.8
9 18	21 57.88	-38 1.3	1.184	2.035	19.8	19.2	9 18	21 53.92	-19 36.2	0.843	1.777	17.4	18.0
9 28	21 56.19	-37 15.6	1.255	2.038	22.6	19.4	9 28	21 5					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
52403	1993 <i>TQ</i> ₁₇		8 24.4 330°21	1°3/25.5	18		345943	2007 <i>RY</i> ₂₈₇		8 24.4 67°43	4°7/20.7	18	
7 20	22 34.10	- 4 40.8	1.739	2.592	14.9	19.2	7 20	22 40.69	-22 2.1	1.790	2.667	13.5	20.7
7 30	22 30.47	- 5 10.5	1.661	2.587	11.5	19.0	7 30	22 35.33	-22 44.9	1.731	2.671	10.2	20.5
8 9	22 24.80	- 5 56.4	1.605	2.582	7.5	18.7	8 9	22 27.76	-23 27.6	1.695	2.676	6.9	20.3
8 19	22 17.67	- 6 55.1	1.572	2.578	3.3	18.5	8 19	22 18.69	-24 3.6	1.684	2.680	4.8	20.2
8 29	22 9.92	- 8 0.8	1.566	2.574	2.1	18.4	8 29	22 9.15	-24 26.7	1.699	2.685	5.9	20.3
9 8	22 2.57	- 9 6.8	1.587	2.570	6.3	18.6	9 8	22 0.26	-24 32.9	1.741	2.689	9.0	20.5
9 18	21 56.53	-10 6.7	1.633	2.566	10.5	18.9	9 18	21 52.99	-24 21.2	1.807	2.694	12.3	20.7
9 28	21 52.56	-10 55.3	1.702	2.563	14.1	19.1	9 28	21 48.04	-23 52.7	1.894	2.699	15.2	20.9
413715	2006 <i>AB</i> ₁₈		8 24.4 168°46	1°0/23.6	17		27062	1998 <i>SJ</i> ₅₈		8 24.4 186°46	0°7/23.8	18	
7 20	22 40.63	- 9 49.7	1.506	2.372	16.2	21.9	7 20	22 40.05	-10 34.4	1.838	2.695	14.1	18.8
7 30	22 35.64	-10 38.1	1.439	2.375	12.2	21.7	7 30	22 34.82	-11 7.4	1.763	2.695	10.6	18.6
8 9	22 28.15	-11 40.2	1.393	2.378	7.6	21.4	8 9	22 27.48	-11 50.5	1.712	2.695	6.6	18.3
8 19	22 18.87	-12 50.1	1.371	2.380	2.6	21.1	8 19	22 18.62	-12 39.2	1.685	2.694	2.3	18.0
8 29	22 8.90	-13 59.4	1.376	2.382	3.0	21.2	8 29	22 9.18	-13 27.7	1.687	2.693	2.5	18.1
9 8	21 59.53	-15 0.4	1.407	2.383	7.9	21.5	9 8	22 0.20	-14 10.1	1.716	2.691	6.8	18.3
9 18	21 51.88	-15 47.1	1.463	2.383	12.4	21.8	9 18	21 52.63	-14 42.1	1.771	2.688	10.8	18.6
9 28	21 46.81	-16 16.4	1.540	2.384	16.2	22.0	9 28	21 47.23	-15 1.3	1.848	2.685	14.2	18.8
168980	2001 <i>CS</i> ₂		8 24.4 163°43	1°2/23.4	17		396701	2002 <i>TV</i> ₂₉₇		8 24.4 276°90	3°7/28.7	18	
7 20	22 41.52	-11 44.5	1.835	2.693	14.1	20.9	7 20	22 32.57	+ 3 37.4	2.616	3.411	12.2	21.1
7 30	22 35.86	-12 20.9	1.766	2.698	10.5	20.7	7 30	22 28.70	+ 3 35.2	2.522	3.403	9.9	20.9
8 9	22 28.08	-13 6.4	1.720	2.703	6.5	20.4	8 9	22 23.43	+ 3 18.4	2.450	3.394	7.4	20.7
8 19	22 18.80	-13 55.8	1.699	2.708	2.3	20.2	8 19	22 17.15	+ 2 47.6	2.404	3.386	4.9	20.6
8 29	22 8.99	-14 43.2	1.707	2.711	2.8	20.2	8 29	22 10.44	+ 2 4.9	2.384	3.377	3.7	20.5
9 8	21 59.71	-15 23.0	1.742	2.714	7.0	20.5	9 8	22 3.95	+ 1 14.0	2.393	3.369	5.1	20.6
9 18	21 51.91	-15 51.2	1.803	2.717	10.9	20.7	9 18	21 58.29	+ 0 19.1	2.429	3.361	7.6	20.7
9 28	21 46.33	-16 5.8	1.887	2.718	14.2	21.0	9 28	21 54.01	- 0 35.1	2.491	3.352	10.2	20.9
400868	2010 <i>OT</i> ₃₀		8 24.4 1°00	8°4/15.7	18		447282	2005 <i>VJ</i> ₂₀		8 24.4 301°40	4°2/28.6	18	
7 20	22 35.73	-30 31.0	1.790	2.674	13.1	19.9	7 20	22 33.20	+ 3 33.3	2.100	2.908	14.3	21.4
7 30	22 31.87	-32 11.3	1.740	2.673	10.6	19.7	7 30	22 29.52	+ 3 29.1	2.010	2.899	11.7	21.2
8 9	22 25.74	-33 45.7	1.714	2.673	8.8	19.6	8 9	22 24.11	+ 3 6.7	1.940	2.890	8.6	21.0
8 19	22 18.00	-35 4.9	1.712	2.673	8.5	19.6	8 19	22 17.43	+ 2 26.8	1.895	2.880	5.7	20.8
8 29	22 9.68	-36 0.7	1.734	2.674	9.9	19.7	8 29	22 10.19	+ 1 31.9	1.876	2.871	4.2	20.7
9 8	22 1.94	-36 28.8	1.780	2.675	12.2	19.8	9 8	22 3.22	+ 0 27.2	1.884	2.862	5.9	20.8
9 18	21 55.80	-36 28.8	1.847	2.676	14.7	20.0	9 18	21 57.30	- 0 41.5	1.918	2.854	9.0	21.0
9 28	21 52.01	-36 3.0	1.933	2.678	16.9	20.2	9 28	21 53.09	- 1 48.0	1.977	2.845	12.1	21.2
51819	2001 <i>OZ</i> ₁₅		8 24.4 263°70	3°7/20.9	18		306236	2011 <i>QR</i> ₆₇		8 24.4 2°44	2°4/26.4	18	R
7 20	22 38.87	-19 59.6	2.163	3.033	11.8	19.6	7 20	22 31.07	- 1 50.3	1.407	2.268	17.4	19.6
7 30	22 33.84	-20 45.5	2.077	3.015	8.9	19.4	7 30	22 28.55	- 2 18.9	1.339	2.267	13.6	19.4
8 9	22 26.84	-21 34.0	2.014	2.996	5.9	19.2	8 9	22 23.76	- 3 9.7	1.290	2.267	9.2	19.1
8 19	22 18.40	-22 19.7	1.978	2.977	3.8	19.0	8 19	22 17.35	- 4 19.1	1.264	2.267	4.6	18.9
8 29	22 9.31	-22 56.7	1.970	2.958	4.9	19.0	8 29	22 10.28	- 5 40.6	1.262	2.269	2.8	18.8
9 8	22 0.53	-23 20.4	1.989	2.939	7.9	19.2	9 8	22 3.73	- 7 4.8	1.285	2.271	6.9	19.0
9 18	21 52.95	-23 28.3	2.033	2.919	11.2	19.4	9 18	21 58.71	- 8 23.1	1.332	2.275	11.4	19.3
9 28	21 47.31	-23 19.9	2.100	2.899	14.1	19.5	9 28	21 56.03	- 9 28.4	1.400	2.280	15.4	19.6
445394	2010 <i>SG</i> ₁₁		8 24.4 6°71	0°3/24.6	18		198354	2004 <i>VM</i> ₈		8 24.4 346°47	13°4/13.6	18	
7 20	22 37.69	- 9 34.9	1.914	2.771	13.6	21.2	7 20	22 30.31	-33 1.4	0.998	1.916	18.1	18.5
7 30	22 32.91	- 9 35.4	1.841	2.772	10.3	21.0	7 30	22 29.37	-34 57.9	0.948	1.897	15.4	18.3
8 9	22 26.20	- 9 44.7	1.791	2.772	6.5	20.8	8 9	22 24.97	-36 44.4	0.916	1.881	13.6	18.2
8 19	22 18.13	- 9 59.8	1.765	2.773	2.4	20.5	8 19	22 17.91	-38 4.8	0.902	1.866	13.7	18.1
8 29	22 9.58	-10 17.0	1.767	2.774	1.9	20.5	8 29	22 9.80	-38 45.0	0.908	1.854	15.7	18.2
9 8	22 1.48	-10 32.3	1.796	2.776	6.0	20.8	9 8	22 2.57	-38 38.4	0.931	1.844	18.7	18.3
9 18	21 54.71	-10 42.3	1.851	2.778	9.8	21.0	9 18	21 57.86	-37 46.4	0.970	1.836	22.0	18.5
9 28	21 49.93	-10 44.7	1.929	2.780	13.1	21.2	9 28	21 56.73	-36 15.5	1.022	1.831	25.0	18.7
188951	2007 <i>EW</i> ₅₇		8 24.4 115°60	2°7/21.3	18		92149	1999 <i>XN</i> ₁₂₄		8 24.4 301°82	2°9/27.0	18	
7 20	22 34.57	-16 21.9	2.279	3.149	11.3	20.5	7 20	22 35.75	- 1 25.5	2.209	3.033	13.2	19.3
7 30	22 30.35	-17 23.7	2.212	3.152	8.3	20.3	7 30	22 31.30	- 1 15.6	2.124	3.028	10.5	19.1
8 9	22 24.50	-18 30.4	2.170	3.155	5.2	20.1	8 9	22 25.15	- 1 18.7	2.060	3.022	7.3	18.9
8 19	22 17.51	-19 36.6	2.155	3.159	2.8	20.0	8 19	22 17.79	- 1 33.7	2.021	3.017	4.2	18.7
8 29	22 10.11	-20 36.7	2.168	3.162	3.9	20.0	8 29	22 9.91	- 1 58.2	2.010	3.012	3.0	18.6
9 8	22 3.09	-21 25.7	2.209	3.165	6.8	20.2	9 8	22 2.35	- 2 28.6	2.026	3.007	5.4	18.8
9 18	21 57.16	-22 0.6	2.275	3.169	9.8	20.4	9 18	21 55.84	- 3 0.8	2.070	3.002	8.6	19.0
9 28	21 52.90	-22 20.0	2.365	3.172	12.5	20.6	9 28	21 51.02	- 3 30.5	2.137	2.997	11.7	19.1
472504	2015 <i>CB</i> ₂₈		8 24.4 76°50	2°2/22.9	17		508380	2016 <i>FR</i> ₄₆		8 24.4 43°85	3°3/26.6	17	
7 20	22 41.89	-14 52.4	1.532	2.406	15.5	20.6	7 20	22 37.43	- 1 48.9	1.128	1.995	20.4	21.1
7 30	22 36.36	-15 18.5	1.478	2.419	11.6	20.4	7 30	22 33.63	- 1 53.6	1.078	2.008	16.0	20.8
8 9	22 28.44	-15 50.9	1.446	2.432	7.2	20.2	8 9	22 27.04	- 2 22.3	1.045	2.021	10.9	20.6
8 19	22 18.92	-16 23.8	1.438	2.445	2.9	19.9	8 19	22 18.50	- 3 11.7	1.033	2.035	5.6	20.4
8 29	22 8.95	-16 50.9	1.456	2.458	3.7	20.0	8 29	22 9.36	- 4 14.8	1.044	2.050	3.6	20.3
9 8	21 59.77	-17 7.2	1.500	2.471	8.0	20.3	9 8	22 1.09	- 5 22.0	1.079	2.065	7.9	20.6
9 18	21 52.40	-17 10.2	1.569	2.484	12.1	20.6	9 18	21 54.91	- 6 24.4	1.136	2.081	12.8	20.9
9 28	21 47.58	-16 59.2	1.659	2.497	15.5	20.8	9 28	21 51.64	- 7 14.7	1.213	2.097	17.0	21.2
386501	2009 <i>BA</i> ₄₇		8 24.4 131°32	0°9/25.5	18		264175	2010 <i>DG</i> ₂₀					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
21489	1998 <i>JU</i>		8 24.4 177°23	0°7/23.8	17	R	39072	2000 <i>VM</i> ₁₇		8 24.4 21°46	3°8/27.3	18	
7 20	22 41.20	-10 27.9	1.754	2.612	14.6	19.5	7 20	22 32.65	-0 9.4	1.196	2.059	19.6	17.5
7 30	22 35.76	-10 59.7	1.682	2.614	11.0	19.3	7 30	22 29.95	-0 16.1	1.142	2.069	15.5	17.3
8 9	22 28.10	-11 42.0	1.632	2.616	6.9	19.1	8 9	22 24.71	-0 47.7	1.107	2.079	10.8	17.1
8 19	22 18.87	-12 30.1	1.608	2.617	2.4	18.8	8 19	22 17.70	-1 41.6	1.092	2.091	6.0	16.9
8 29	22 9.02	-13 17.9	1.611	2.617	2.5	18.8	8 29	22 10.11	-2 51.3	1.100	2.104	4.0	16.8
9 8	21 59.69	-13 59.5	1.641	2.617	7.0	19.1	9 8	22 3.23	-4 7.0	1.132	2.119	7.5	17.0
9 18	21 51.88	-14 30.5	1.697	2.616	11.1	19.3	9 18	21 58.19	-5 19.5	1.186	2.134	12.0	17.3
9 28	21 46.34	-14 48.3	1.776	2.614	14.6	19.6	9 28	21 55.77	-6 20.8	1.261	2.150	16.1	17.6
283323	1996 <i>AZ</i> ₅		8 24.4 255°44	2°1/22.5	18		213839	2003 <i>SM</i> ₃		8 24.4 34°67	2°3/25.9	18	
7 20	22 37.13	-13 54.8	1.879	2.749	13.3	21.1	7 20	22 36.07	-3 40.7	1.084	1.961	20.3	19.6
7 30	22 32.66	-14 40.1	1.803	2.743	9.9	20.9	7 30	22 32.71	-3 55.9	1.036	1.973	15.7	19.4
8 9	22 26.15	-15 33.3	1.751	2.737	6.2	20.7	8 9	22 26.52	-4 34.1	1.004	1.985	10.4	19.2
8 19	22 18.18	-16 29.0	1.723	2.731	2.6	20.4	8 19	22 18.36	-5 30.8	0.993	1.999	4.8	18.9
8 29	22 9.60	-17 21.0	1.723	2.724	3.5	20.5	8 29	22 9.57	-6 38.0	1.006	2.013	2.9	18.8
9 8	22 1.44	-18 3.4	1.750	2.718	7.3	20.7	9 8	22 1.68	-7 45.5	1.041	2.028	8.0	19.2
9 18	21 54.61	-18 32.3	1.802	2.712	11.1	20.9	9 18	21 55.89	-8 44.5	1.098	2.043	13.1	19.5
9 28	21 49.84	-18 45.8	1.877	2.705	14.4	21.1	9 28	21 53.04	-9 28.9	1.175	2.059	17.4	19.8
483461	2002 <i>ES</i> ₁₀₆		8 24.4 77°50	1°1/25.8	18		211733	2003 <i>YJ</i> ₁₀₉		8 24.4 224°31	3°6/20.6	18	
7 20	22 33.51	-1 23.0	2.222	3.050	13.0	20.4	7 20	22 37.29	-19 3.2	2.214	3.084	11.5	20.8
7 30	22 29.48	-2 44.9	2.157	3.068	10.0	20.2	7 30	22 32.56	-20 7.6	2.138	3.076	8.7	20.6
8 9	22 23.92	-4 23.2	2.115	3.086	6.5	20.1	8 9	22 26.01	-21 15.7	2.086	3.069	5.7	20.4
8 19	22 17.32	-6 13.2	2.100	3.105	2.8	19.9	8 19	22 18.13	-22 21.6	2.061	3.060	3.7	20.2
8 29	22 10.37	-8 8.1	2.115	3.123	1.7	19.8	8 29	22 9.71	-23 19.0	2.064	3.052	4.9	20.3
9 8	22 3.82	-10 0.3	2.160	3.141	5.1	20.1	9 8	22 1.62	-24 2.9	2.095	3.043	7.8	20.5
9 18	21 58.33	-11 43.3	2.234	3.158	8.5	20.3	9 18	21 54.70	-24 30.3	2.151	3.033	10.8	20.7
9 28	21 54.45	-13 12.0	2.333	3.176	11.4	20.6	9 28	21 49.61	-24 40.5	2.230	3.024	13.5	20.8
126330	2002 <i>AG</i> ₁₅₀		8 24.4 258°19	0°2/24.3	18		196160	2002 <i>VW</i> ₂₆		8 24.4 209°63	3°8/20.2	18	
7 20	22 38.38	-9 22.3	1.752	2.612	14.5	20.4	7 20	22 37.65	-23 41.1	2.749	3.613	9.7	20.0
7 30	22 33.74	-9 44.9	1.671	2.604	11.0	20.2	7 30	22 32.41	-24 14.0	2.679	3.611	7.4	19.9
8 9	22 26.92	-10 18.8	1.612	2.595	7.0	19.9	8 9	22 25.69	-24 45.5	2.633	3.609	5.1	19.7
8 19	22 18.48	-11 0.3	1.578	2.587	2.5	19.6	8 19	22 17.96	-25 11.4	2.615	3.607	3.8	19.6
8 29	22 9.35	-11 43.8	1.571	2.578	2.2	19.6	8 29	22 9.89	-25 27.9	2.626	3.604	4.7	19.7
9 8	22 0.63	-12 23.5	1.590	2.569	6.8	19.9	9 8	22 2.18	-25 32.5	2.664	3.602	6.8	19.8
9 18	21 53.31	-12 54.6	1.635	2.560	11.0	20.1	9 18	21 55.50	-25 24.1	2.729	3.599	9.2	20.0
9 28	21 48.20	-13 13.9	1.703	2.551	14.7	20.3	9 28	21 50.36	-25 3.0	2.817	3.596	11.3	20.1
481675	2007 <i>XR</i> ₅₆		8 24.4 330°21	13°0/28.5	17		487386	2014 <i>QA</i> ₃₀₁		8 24.4 320°28	3°7/20.6	18	
7 20	22 42.87	+10 6.4	1.445	2.231	20.7	20.2	7 20	22 34.98	-20 38.9	2.266	3.141	11.1	21.1
7 30	22 38.08	+12 39.7	1.351	2.204	18.3	19.9	7 30	22 30.78	-21 24.0	2.190	3.130	8.4	20.9
8 9	22 30.27	+14 58.8	1.275	2.179	15.8	19.7	8 9	22 24.86	-22 10.7	2.138	3.120	5.6	20.7
8 19	22 19.89	+16 54.9	1.220	2.155	13.7	19.5	8 19	22 17.71	-22 53.9	2.113	3.111	3.8	20.5
8 29	22 7.97	+18 20.2	1.188	2.132	13.0	19.4	8 29	22 10.09	-23 28.4	2.115	3.101	4.8	20.6
9 8	21 56.01	+19 10.8	1.179	2.110	14.0	19.4	9 8	22 2.81	-23 50.3	2.143	3.092	7.5	20.7
9 18	21 45.56	+19 28.3	1.190	2.090	16.3	19.5	9 18	21 56.65	-23 57.3	2.197	3.083	10.4	20.9
9 28	21 38.00	+19 20.0	1.221	2.070	19.2	19.6	9 28	21 52.24	-23 49.0	2.273	3.074	13.1	21.1
404102	2012 <i>FS</i> ₆₉		8 24.4 265°78	4°1/20.1	18		285692	2000 <i>ST</i> ₁₈₆		8 24.4 23°02	6°4/27.9	17	
7 20	22 36.85	-22 35.5	2.430	3.300	10.6	20.6	7 20	22 35.66	-0 15.3	0.849	1.733	23.8	19.2
7 30	22 32.07	-23 21.5	2.354	3.291	8.1	20.4	7 30	22 32.85	+0 42.1	0.810	1.745	19.1	18.9
8 9	22 25.60	-24 7.7	2.303	3.281	5.6	20.2	8 9	22 26.79	+1 11.2	0.786	1.760	13.8	18.7
8 19	22 17.95	-24 48.9	2.279	3.272	4.1	20.1	8 19	22 18.47	+1 11.5	0.780	1.776	8.6	18.5
8 29	22 9.84	-25 20.2	2.282	3.262	5.1	20.2	8 29	22 9.52	+0 47.0	0.793	1.794	6.4	18.5
9 8	22 2.07	-25 38.0	2.313	3.253	7.6	20.3	9 8	22 1.70	+0 6.6	0.827	1.814	9.5	18.7
9 18	21 55.40	-25 40.6	2.369	3.243	10.3	20.5	9 18	21 56.38	-0 39.4	0.881	1.835	14.2	19.0
9 28	21 50.43	-25 28.0	2.448	3.234	12.7	20.6	9 28	21 54.41	-1 21.4	0.952	1.858	18.6	19.4
517773	2015 <i>OB</i> ₈₉		8 24.4 353°07	1°9/26.3	15		364511	2007 <i>EY</i> ₉₇		8 24.4 197°48	1°3/26.1	18	
7 20	22 31.94	-2 1.8	1.896	2.738	14.3	21.2	7 20	22 33.40	-2 49.4	2.682	3.506	11.1	22.0
7 30	22 28.69	-2 39.8	1.818	2.736	11.2	21.0	7 30	22 29.27	-3 28.1	2.595	3.503	8.6	21.8
8 9	22 23.64	-3 35.3	1.761	2.734	7.5	20.8	8 9	22 23.77	-4 19.2	2.532	3.501	5.7	21.6
8 19	22 17.29	-4 45.1	1.729	2.732	3.7	20.5	8 19	22 17.31	-5 20.0	2.495	3.498	2.7	21.4
8 29	22 10.42	-6 3.9	1.724	2.731	2.2	20.4	8 29	22 10.46	-6 26.6	2.488	3.494	1.7	21.3
9 8	22 3.90	-7 24.8	1.746	2.730	5.7	20.6	9 8	22 3.84	-7 34.5	2.510	3.491	4.5	21.5
9 18	21 58.55	-8 40.9	1.794	2.729	9.5	20.9	9 18	21 58.06	-8 39.1	2.560	3.487	7.5	21.7
9 28	21 55.04	-9 46.6	1.866	2.729	12.9	21.1	9 28	21 53.65	-9 36.5	2.637	3.482	10.2	21.9
261816	2006 <i>CO</i> ₆		8 24.4 265°29	1°0/25.4	18		210484	1996 <i>RG</i> ₁₉		8 24.4 59°26	0°8/23.6	18	
7 20	22 35.12	-6 5.5	2.416	3.254	11.8	21.1	7 20	22 36.85	-11 21.9	1.952	2.814	13.2	20.9
7 30	22 30.73	-6 17.8	2.325	3.243	9.0	20.9	7 30	22 32.28	-11 49.8	1.882	2.817	9.9	20.7
8 9	22 24.77	-6 40.3	2.257	3.232	5.9	20.7	8 9	22 25.83	-12 26.2	1.835	2.820	6.1	20.4
8 19	22 17.67	-7 10.6	2.216	3.221	2.5	20.4	8 19	22 18.07	-13 6.9	1.814	2.823	2.1	20.2
8 29	22 10.08	-7 45.6	2.203	3.210	1.7	20.4	8 29	22 9.83	-13 46.8	1.820	2.826	2.4	20.2
9 8	22 2.75	-8 21.2	2.218	3.198	5.0	20.6	9 8	22 2.05	-14 20.9	1.854	2.829	6.3	20.5
9 18	21 56.36	-8 53.8	2.260	3.187	8.3	20.8	9 18	21 55.56	-14 45.7	1.913	2.832	10.0	20.7
9 28	21 51.52	-9 20.1	2.328	3.175	11.3	20.9	9 28	21 51.01	-14 58.7	1.995	2.835	13.2	20.9
90362	2003 <i>HZ</i> ₅₁		8 24.4 345°61	4°7/19.6	18		507805	2014 <i>CY</i> ₂₂		8 24.4 219°12	4°0/21.7	18	

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8 24.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
447125	2004 <i>VF</i> ₁₉		8 24.4 234°79	5°9/16.8	18		473169	2015 <i>KU</i> ₃₂		8 24.4 97°57	7°5/18.2	16	
7 20	22 38.42	-31 16.8	2.855	3.714	9.5	21.5	7 20	22 43.19	-29 30.4	1.791	2.665	13.6	21.4
7 30	22 33.15	-32 18.7	2.783	3.702	7.7	21.3	7 30	22 37.28	-30 39.3	1.747	2.677	10.8	21.2
8 9	22 26.25	-33 16.0	2.737	3.689	6.3	21.2	8 9	22 29.02	-31 41.4	1.725	2.688	8.4	21.1
8 19	22 18.20	-34 3.2	2.718	3.676	5.9	21.2	8 19	22 19.21	-32 28.4	1.728	2.700	7.6	21.1
8 29	22 9.70	-34 35.6	2.726	3.663	6.9	21.2	8 29	22 8.99	-32 53.8	1.757	2.711	8.7	21.2
9 8	22 1.52	-34 50.5	2.761	3.649	8.6	21.3	9 8	21 59.58	-32 54.5	1.811	2.722	11.1	21.4
9 18	21 54.36	-34 47.0	2.820	3.635	10.5	21.4	9 18	21 51.99	-32 31.2	1.887	2.733	13.7	21.6
9 28	21 48.84	-34 26.1	2.900	3.620	12.3	21.5	9 28	21 46.90	-31 47.2	1.983	2.744	16.1	21.7
256600	2007 <i>UK</i> ₁₀₅		8 24.4 314°18	0°4/24.7	18		176762	2002 <i>RM</i> ₁₆₀		8 24.4 136°14	1°8/25.9	18	
7 20	22 36.88	- 6 49.3	1.321	2.193	17.6	20.3	7 20	22 37.49	- 2 52.8	1.620	2.466	16.2	20.3
7 30	22 33.20	- 7 22.6	1.250	2.188	13.5	20.1	7 30	22 33.12	- 3 29.0	1.551	2.471	12.6	20.1
8 9	22 26.86	- 8 14.4	1.199	2.183	8.6	19.8	8 9	22 26.54	- 4 24.0	1.502	2.476	8.3	19.8
8 19	22 18.54	- 9 19.7	1.170	2.178	3.2	19.5	8 19	22 18.39	- 5 34.1	1.477	2.481	3.8	19.6
8 29	22 9.39	-10 30.8	1.166	2.174	2.5	19.4	8 29	22 9.63	- 6 52.8	1.479	2.486	2.3	19.5
9 8	22 0.79	-11 38.4	1.187	2.170	7.9	19.7	9 8	22 1.39	- 8 11.9	1.507	2.490	6.6	19.8
9 18	21 53.96	-12 34.9	1.231	2.166	13.0	20.0	9 18	21 54.66	- 9 24.2	1.561	2.494	10.9	20.0
9 28	21 49.87	-13 14.8	1.295	2.162	17.3	20.2	9 28	21 50.19	-10 23.9	1.638	2.498	14.6	20.3
353925	1199 <i>T-2</i>		8 24.4 349°09	0°5/24.7	18		218430	2004 <i>RJ</i> ₁₇₈		8 24.4 356°23	4°8/29.2	18	R
7 20	22 30.98	- 9 13.5	1.092	1.990	18.5	19.5	7 20	22 34.21	+ 4 45.9	2.151	2.950	14.3	20.2
7 30	22 29.17	- 9 10.0	1.023	1.976	14.2	19.2	7 30	22 30.21	+ 4 56.5	2.069	2.949	11.8	20.0
8 9	22 24.54	- 9 21.6	0.973	1.963	9.1	18.9	8 9	22 24.53	+ 4 49.5	2.007	2.948	8.9	19.9
8 19	22 17.77	- 9 44.6	0.943	1.952	3.4	18.6	8 19	22 17.64	+ 4 25.0	1.969	2.948	6.2	19.7
8 29	22 10.07	-10 13.0	0.935	1.943	2.7	18.5	8 29	22 10.26	+ 3 45.3	1.958	2.948	4.8	19.6
9 8	22 2.96	-10 39.2	0.949	1.936	8.5	18.8	9 8	22 3.20	+ 2 54.6	1.973	2.948	6.1	19.7
9 18	21 57.78	-10 56.8	0.984	1.931	13.9	19.1	9 18	21 57.20	+ 1 58.0	2.015	2.948	8.8	19.9
9 28	21 55.54	-11 1.2	1.037	1.929	18.6	19.4	9 28	21 52.90	+ 1 1.4	2.081	2.948	11.6	20.0
77555	2001 <i>JO</i> ₇		8 24.4 116°44	1°7/22.8	18		139930	2001 <i>RB</i> ₁₃₁		8 24.4 229°82	1°5/22.9	18	
7 20	22 37.53	-13 10.1	1.944	2.809	13.1	19.9	7 20	22 36.75	-13 8.9	2.038	2.903	12.6	19.8
7 30	22 32.79	-13 55.3	1.879	2.816	9.7	19.7	7 30	22 32.20	-13 45.6	1.964	2.901	9.4	19.6
8 9	22 26.14	-14 48.0	1.838	2.823	6.0	19.4	8 9	22 25.80	-14 29.5	1.914	2.899	5.8	19.4
8 19	22 18.19	-15 43.0	1.823	2.830	2.4	19.2	8 19	22 18.10	-15 16.2	1.890	2.898	2.2	19.1
8 29	22 9.78	-16 34.5	1.835	2.837	3.1	19.3	8 29	22 9.89	-16 0.2	1.893	2.896	2.9	19.2
9 8	22 1.86	-17 17.0	1.874	2.844	6.8	19.5	9 8	22 2.10	-16 36.7	1.924	2.894	6.6	19.4
9 18	21 55.26	-17 47.0	1.940	2.850	10.4	19.8	9 18	21 55.53	-17 2.1	1.981	2.893	10.1	19.6
9 28	21 50.65	-18 2.7	2.028	2.856	13.5	20.0	9 28	21 50.85	-17 14.4	2.060	2.891	13.2	19.8
371881	2008 <i>CW</i> ₄₉		8 24.4 69°69	0°8/23.9	17		73087	2002 <i>GA</i> ₁₈		8 24.4 322°84	8°2/19.1	18	
7 20	22 43.44	-11 28.7	1.378	2.248	17.1	20.4	7 20	22 38.46	-24 35.8	1.144	2.049	17.4	18.1
7 30	22 37.64	-11 42.3	1.330	2.269	12.8	20.2	7 30	22 35.12	-25 47.3	1.078	2.031	13.6	17.8
8 9	22 29.30	-12 5.8	1.304	2.289	7.9	19.9	8 9	22 28.47	-26 59.6	1.032	2.014	10.0	17.5
8 19	22 19.30	-12 34.0	1.301	2.310	2.7	19.7	8 19	22 19.24	-28 0.7	1.006	1.998	8.2	17.4
8 29	22 8.92	-13 0.6	1.324	2.331	2.8	19.7	8 29	22 8.90	-28 38.7	1.003	1.982	10.0	17.4
9 8	21 59.48	-13 20.3	1.373	2.351	7.7	20.1	9 8	21 59.24	-28 45.5	1.020	1.967	13.9	17.6
9 18	21 52.06	-13 29.6	1.446	2.371	12.1	20.4	9 18	21 51.88	-28 19.8	1.058	1.954	18.2	17.8
9 28	21 47.37	-13 26.7	1.540	2.392	15.8	20.7	9 28	21 47.94	-27 24.6	1.111	1.941	22.1	18.0
3492	Petra-Pepi		8 24.4 76°79	1°7/22.7	18	R	394620	2007 <i>VW</i> ₃₃₃		8 24.4 259°63	5°1/18.6	18	
7 20	22 35.85	-10 9.4	1.668	2.537	14.7	15.7	7 20	22 35.74	-22 1.4	2.082	2.961	11.8	20.7
7 30	22 31.75	-11 35.1	1.613	2.553	10.9	15.5	7 30	22 31.62	-23 34.8	2.010	2.951	9.0	20.5
8 9	22 25.58	-13 13.4	1.582	2.568	6.6	15.2	8 9	22 25.55	-25 11.3	1.962	2.941	6.3	20.3
8 19	22 18.01	-14 56.8	1.575	2.584	2.5	15.0	8 19	22 18.06	-26 43.0	1.941	2.931	5.1	20.2
8 29	22 9.97	-16 36.0	1.597	2.599	3.4	15.1	8 29	22 9.93	-28 2.1	1.948	2.920	6.6	20.3
9 8	22 2.50	-18 2.9	1.645	2.615	7.6	15.4	9 8	22 2.13	-29 2.6	1.981	2.910	9.3	20.4
9 18	21 56.52	-19 11.7	1.718	2.630	11.4	15.7	9 18	21 55.54	-29 41.3	2.038	2.899	12.2	20.6
9 28	21 52.69	-19 59.9	1.814	2.645	14.7	15.9	9 28	21 50.90	-29 57.8	2.116	2.889	14.8	20.8
394226	2006 <i>SH</i> ₃₂₇		8 24.4 30°92	1°4/25.7	18		124557	2001 <i>RD</i> ₁₃₉		8 24.4 219°74	1°8/22.8	18	
7 20	22 34.35	- 4 9.2	1.880	2.726	14.3	20.9	7 20	22 39.39	-13 6.9	1.939	2.801	13.3	20.2
7 30	22 30.48	- 4 38.8	1.807	2.729	11.0	20.7	7 30	22 34.37	-13 52.2	1.858	2.793	9.9	20.0
8 9	22 24.76	- 5 23.5	1.756	2.732	7.2	20.4	8 9	22 27.27	-14 46.2	1.801	2.785	6.2	19.8
8 19	22 17.72	- 6 20.0	1.730	2.735	3.2	20.2	8 19	22 18.67	-15 43.4	1.769	2.777	2.4	19.5
8 29	22 10.19	- 7 23.1	1.731	2.738	2.0	20.1	8 29	22 9.42	-16 37.8	1.766	2.768	3.2	19.6
9 8	22 3.06	- 8 26.5	1.759	2.741	5.8	20.4	9 8	22 0.54	-17 23.4	1.790	2.758	7.2	19.8
9 18	21 57.18	- 9 24.6	1.813	2.745	9.7	20.6	9 18	21 52.98	-17 56.2	1.840	2.748	11.0	20.0
9 28	21 53.21	-10 12.5	1.890	2.749	13.0	20.8	9 28	21 47.49	-18 13.9	1.912	2.738	14.3	20.2
62903	2000 <i>UK</i> ₁₀₆		8 24.4 357°93	1°9/26.4	18		80775	2000 <i>CN</i> ₆₅		8 24.4 237°03	0°5/23.9	18	R
7 20	22 32.80	- 1 57.0	1.965	2.804	14.1	19.3	7 20	22 37.10	- 8 19.4	1.658	2.521	15.1	19.8
7 30	22 29.29	- 2 32.2	1.887	2.803	11.0	19.1	7 30	22 32.92	- 9 10.9	1.581	2.515	11.4	19.6
8 9	22 24.00	- 3 24.2	1.831	2.802	7.4	18.9	8 9	22 26.50	-10 17.5	1.525	2.509	7.2	19.3
8 19	22 17.46	- 4 30.0	1.800	2.802	3.6	18.7	8 19	22 18.42	-11 33.9	1.494	2.502	2.5	19.0
8 29	22 10.41	- 5 44.5	1.795	2.802	2.2	18.6	8 29	22 9.63	-12 52.5	1.489	2.496	2.5	19.0
9 8	22 3.71	- 7 1.2	1.818	2.802	5.6	18.8	9 8	22 1.24	-14 5.4	1.512	2.489	7.2	19.3
9 18	21 58.16	- 8 13.8	1.868	2.802	9.3	19.0	9 18	21 54.30	-15 6.1	1.559	2.482	11.6	19.5
9 28	21 54.41	- 9 16.8	1.941	2.803	12.6	19.2	9 28	21 49.63	-15 50.3	1.629	2.475	15.4	19.8
61965	2000 <i>RS</i> ₂₂		8 24.4 239°77										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
138	Tolosa		8 24.4	9°26	3°1/22.4	18 R	384324	2009 SL ₂₅₁		8 24.4	307°28	1°5/25.5	18
7 20	22 35.92	-14 56.5	1.152	2.051	17.7	11.5	7 20	22 35.82	-5 33.3	1.402	2.269	17.1	21.5
7 30	22 32.68	-15 35.9	1.098	2.052	13.3	11.3	7 30	22 32.48	-5 45.8	1.315	2.248	13.3	21.2
8 9	22 26.60	-16 24.7	1.063	2.054	8.3	11.0	8 9	22 26.55	-6 16.3	1.247	2.228	8.8	20.9
8 19	22 18.49	-17 15.1	1.050	2.058	3.7	10.8	8 19	22 18.58	-7 2.1	1.202	2.208	3.8	20.6
8 29	22 9.68	-17 58.0	1.061	2.063	4.9	10.9	8 29	22 9.59	-7 57.5	1.181	2.189	2.5	20.4
9 8	22 1.69	-18 26.0	1.094	2.068	9.7	11.2	9 8	22 0.90	-8 54.9	1.185	2.170	7.6	20.7
9 18	21 55.77	-18 34.9	1.148	2.075	14.5	11.5	9 18	21 53.79	-9 46.5	1.212	2.151	12.7	20.9
9 28	21 52.79	-18 24.0	1.222	2.083	18.5	11.7	9 28	21 49.30	-10 26.3	1.260	2.133	17.3	21.2
521372	2015 MV ₁₄₀		8 24.4	354°18	1°1/23.4	18	250582	2005 AY ₃₅		8 24.4	139°59	3°1/26.7	17
7 20	22 34.27	-10 11.9	1.758	2.628	14.1	21.3	7 20	22 40.76	-1 34.0	1.604	2.439	16.8	20.9
7 30	22 30.62	-11 4.9	1.687	2.626	10.5	21.1	7 30	22 35.60	-1 36.9	1.535	2.447	13.2	20.6
8 9	22 24.95	-12 9.9	1.639	2.625	6.5	20.9	8 9	22 28.13	-1 58.0	1.486	2.454	9.1	20.4
8 19	22 17.85	-13 21.6	1.615	2.624	2.3	20.6	8 19	22 19.03	-2 35.1	1.461	2.461	4.9	20.2
8 29	22 10.18	-14 32.9	1.618	2.623	2.8	20.6	8 29	22 9.31	-3 23.9	1.463	2.467	3.3	20.1
9 8	22 2.95	-15 36.7	1.648	2.623	7.0	20.9	9 8	22 0.15	-4 17.7	1.490	2.473	6.7	20.3
9 18	21 57.04	-16 27.8	1.703	2.623	11.0	21.1	9 18	21 52.60	-5 10.2	1.544	2.478	10.8	20.6
9 28	21 53.20	-17 2.8	1.780	2.623	14.4	21.4	9 28	21 47.42	-5 55.4	1.619	2.483	14.6	20.8
210117	2006 RO ₂₆		8 24.4	28°54	1°7/22.9	18	421008	2013 PT ₄₉		8 24.4	74°66	1°2/25.3	17
7 20	22 36.66	-13 14.9	1.858	2.728	13.4	20.1	7 20	22 40.52	-5 15.0	1.351	2.212	18.0	21.0
7 30	22 32.27	-13 51.3	1.791	2.730	10.0	19.9	7 30	22 35.55	-5 43.3	1.303	2.233	13.7	20.8
8 9	22 25.91	-14 35.4	1.746	2.732	6.2	19.7	8 9	22 28.09	-6 29.3	1.274	2.254	8.8	20.6
8 19	22 18.17	-15 22.1	1.727	2.735	2.4	19.4	8 19	22 18.98	-7 28.0	1.269	2.275	3.6	20.3
8 29	22 9.94	-16 5.8	1.734	2.737	3.1	19.5	8 29	22 9.42	-8 31.9	1.289	2.296	2.3	20.3
9 8	22 2.18	-16 41.0	1.769	2.740	7.0	19.7	9 8	22 0.71	-9 32.8	1.334	2.317	7.2	20.7
9 18	21 55.78	-17 4.3	1.829	2.743	10.7	20.0	9 18	21 53.91	-10 24.2	1.404	2.338	11.8	21.0
9 28	21 51.42	-17 13.8	1.911	2.746	13.9	20.2	9 28	21 49.75	-11 1.8	1.495	2.358	15.6	21.3
225858	2001 XK ₁₇₇		8 24.4	150°17	0°8/23.6	18	283163	2009 BL ₁₉₀		8 24.4	91°98	0°2/24.8	18
7 20	22 38.49	-10 17.7	2.118	2.970	12.7	20.6	7 20	22 30.80	-6 57.8	3.150	3.988	9.3	20.6
7 30	22 33.38	-11 5.1	2.049	2.979	9.5	20.5	7 30	22 27.14	-7 40.6	3.076	3.996	7.0	20.5
8 9	22 26.49	-12 1.8	2.004	2.987	5.9	20.2	8 9	22 22.39	-8 31.4	3.027	4.005	4.4	20.3
8 19	22 18.36	-13 3.2	1.986	2.994	2.0	20.0	8 19	22 16.89	-9 27.5	3.006	4.013	1.7	20.1
8 29	22 9.80	-14 3.6	1.997	3.002	2.3	20.0	8 29	22 11.13	-10 25.4	3.014	4.021	1.2	20.1
9 8	22 1.67	-14 57.7	2.035	3.008	6.1	20.3	9 8	22 5.60	-11 21.5	3.051	4.029	4.0	20.3
9 18	21 54.76	-15 41.4	2.101	3.014	9.6	20.5	9 18	22 0.79	-12 12.5	3.117	4.037	6.5	20.5
9 28	21 49.70	-16 12.1	2.191	3.019	12.6	20.7	9 28	21 57.09	-12 55.9	3.209	4.045	8.8	20.7
295201	2008 FY ₁₁₄		8 24.4	171°37	1°0/23.4	18	192003	2005 YH ₁		8 24.4	147°89	1°0/23.6	17
7 20	22 35.68	-11 33.8	2.237	3.095	11.9	21.3	7 20	22 41.49	-12 21.5	1.843	2.702	14.0	20.2
7 30	22 31.25	-12 10.5	2.163	3.096	8.9	21.1	7 30	22 35.89	-12 40.4	1.775	2.708	10.5	20.0
8 9	22 25.15	-12 55.1	2.113	3.097	5.5	20.9	8 9	22 28.18	-13 6.8	1.729	2.712	6.5	19.8
8 19	22 17.90	-13 43.3	2.089	3.097	1.9	20.7	8 19	22 19.02	-13 36.5	1.708	2.717	2.3	19.5
8 29	22 10.20	-14 30.5	2.093	3.097	2.3	20.7	8 29	22 9.35	-14 4.3	1.716	2.721	2.6	19.5
9 8	22 2.87	-15 11.9	2.125	3.098	5.9	21.0	9 8	22 0.23	-14 25.7	1.751	2.725	6.7	19.8
9 18	21 56.63	-15 44.1	2.184	3.098	9.2	21.2	9 18	21 52.59	-14 37.5	1.812	2.728	10.6	20.0
9 28	21 52.09	-16 4.7	2.266	3.098	12.1	21.4	9 28	21 47.13	-14 38.0	1.895	2.732	13.9	20.3
353456	2011 RR ₁₁		8 24.4	343°34	1°4/25.5	18	55010	2001 QD ₂₇		8 24.4	257°49	0°2/24.6	18
7 20	22 34.84	-5 23.0	1.662	2.519	15.3	20.6	7 20	22 37.90	-7 34.4	1.779	2.633	14.6	19.5
7 30	22 31.17	-5 39.1	1.586	2.514	11.8	20.3	7 30	22 33.49	-8 6.7	1.690	2.619	11.2	19.2
8 9	22 25.37	-6 10.4	1.531	2.510	7.8	20.1	8 9	22 26.90	-8 53.0	1.623	2.604	7.1	19.0
8 19	22 18.04	-6 53.8	1.500	2.506	3.4	19.8	8 19	22 18.64	-9 49.6	1.582	2.589	2.6	18.6
8 29	22 10.08	-7 44.3	1.495	2.502	2.1	19.7	8 29	22 9.61	-10 50.4	1.567	2.574	2.1	18.6
9 8	22 2.54	-8 35.4	1.516	2.499	6.4	20.0	9 8	22 0.88	-11 48.9	1.579	2.558	6.7	18.8
9 18	21 56.39	-9 21.3	1.561	2.496	10.7	20.2	9 18	21 53.47	-12 39.1	1.617	2.542	11.1	19.1
9 28	21 52.39	-9 57.2	1.629	2.494	14.4	20.5	9 28	21 48.22	-13 16.6	1.677	2.526	14.9	19.3
337994	2002 DC ₁₈		8 24.4	187°12	1°4/23.3	16	183486	2003 DX ₂₁		8 24.4	95°52	6°2/19.1	18
7 20	22 42.77	-14 15.3	1.985	2.843	13.2	21.4	7 20	22 42.20	-28 33.2	2.094	2.962	12.2	19.7
7 30	22 36.75	-14 28.1	1.910	2.842	9.9	21.2	7 30	22 36.32	-29 17.5	2.035	2.964	9.6	19.5
8 9	22 28.68	-14 46.0	1.859	2.842	6.2	21.0	8 9	22 28.38	-29 56.4	2.001	2.966	7.3	19.4
8 19	22 19.18	-15 5.1	1.833	2.841	2.3	20.7	8 19	22 19.07	-30 23.7	1.992	2.969	6.2	19.3
8 29	22 9.14	-15 20.9	1.836	2.840	2.8	20.8	8 29	22 9.35	-30 34.1	2.009	2.971	7.2	19.4
9 8	21 59.60	-15 29.5	1.867	2.838	6.7	21.0	9 8	22 0.25	-30 24.8	2.053	2.973	9.5	19.6
9 18	21 51.47	-15 28.6	1.924	2.836	10.4	21.2	9 18	21 52.67	-29 56.2	2.121	2.975	12.1	19.7
9 28	21 45.45	-15 17.1	2.005	2.833	13.6	21.5	9 28	21 47.26	-29 10.3	2.210	2.978	14.4	19.9
115462	2003 TZ ₁₅		8 24.4	245°05	5°3/19.2	18	40055	1998 KS ₄₃		8 24.4	7°23	17°7/6.6	18
7 20	22 40.84	-24 52.7	2.224	3.091	11.6	21.0	7 20	22 26.51	-40 46.1	0.921	1.835	19.6	16.7
7 30	22 35.39	-25 52.7	2.143	3.075	9.0	20.8	7 30	22 26.86	-43 48.7	0.906	1.837	18.1	16.6
8 9	22 27.90	-26 52.1	2.086	3.059	6.5	20.6	8 9	22 23.52	-46 21.2	0.910	1.842	17.7	16.6
8 19	22 18.93	-27 44.3	2.056	3.042	5.3	20.5	8 19	22 17.51	-48 7.0	0.930	1.849	18.6	16.7
8 29	22 9.32	-28 23.1	2.054	3.024	6.5	20.6	8 29	22 10.69	-48 55.9	0.967	1.859	20.3	16.9
9 8	22 0.04	-28 44.2	2.078	3.006	9.0	20.7	9 8	22 5.11	-48 47.3	1.018	1.871	23.4	17.1
9 18	21 52.02	-28 45.7	2.127	2.987	11.9	20.8	9 18	22 2.26	-47 48.0	1.082	1.886	24.4	17.3
9 28	21 46.02	-28 28.3	2.198	2.968	14.4	21.0	9 28	22 2.89	-46 7.9	1.158	1.903	26.1	17.5
79766	1998 UQ ₄		8 24.4	356°48	0°9/23.9	18	146263	2001 BG ₆₂		8 24.4	139°92	0°4/24.9	18
7 20	22 33.15	-11 49.1	0.964	1.871	19.6	18.4	7 20						

EPHEMERIDES

8 24.4

8 24.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
304567	2006 VP ₁₁		8 24.4	48°98	1.4/23.2	18	23580	1995 OZ ₂		8 24.4	239°73	4.3/27.6	18
7 20	22 36.68	-12 44.2	1.988	2.853	12.9	20.8	7 20	22 39.15	+ 0 44.3	1.612	2.440	17.1	20.1
7 30	22 32.19	-13 18.0	1.918	2.855	9.6	20.6	7 30	22 34.57	+ 0 55.5	1.530	2.434	13.7	19.8
8 9	22 25.83	-13 59.3	1.871	2.857	5.9	20.4	8 9	22 27.65	+ 0 47.2	1.468	2.428	9.9	19.6
8 19	22 18.19	-14 43.5	1.851	2.859	2.2	20.2	8 19	22 18.96	+ 0 20.0	1.429	2.422	6.0	19.4
8 29	22 10.07	-15 25.5	1.857	2.861	2.8	20.2	8 29	22 9.48	- 0 23.0	1.415	2.415	4.3	19.3
9 8	22 2.39	-16 0.2	1.891	2.863	6.5	20.5	9 8	22 0.39	- 1 16.1	1.427	2.408	7.1	19.4
9 18	21 55.98	-16 24.2	1.951	2.866	10.1	20.7	9 18	21 52.79	- 2 12.3	1.464	2.401	11.1	19.6
9 28	21 51.47	-16 35.5	2.033	2.868	13.2	20.9	9 28	21 47.55	- 3 4.7	1.524	2.394	15.0	19.8
419847	2011 AO ₅		8 24.4	193°39	1.7/23.2	17	210309	2007 TZ ₁₅₅		8 24.4	305°51	5.2/20.8	18
7 20	22 42.82	-14 1.0	1.725	2.589	14.5	20.9	7 20	22 41.92	-23 9.6	1.694	2.573	14.1	19.9
7 30	22 37.11	-14 23.0	1.652	2.588	10.9	20.6	7 30	22 36.71	-23 42.4	1.617	2.557	10.8	19.7
8 9	22 29.08	-14 51.8	1.602	2.587	6.8	20.4	8 9	22 28.98	-24 14.4	1.562	2.542	7.5	19.4
8 19	22 19.39	-15 22.6	1.577	2.585	2.6	20.1	8 19	22 19.42	-24 38.8	1.532	2.527	5.3	19.3
8 29	22 9.07	-15 49.5	1.579	2.583	3.2	20.2	8 29	22 9.12	-24 48.9	1.527	2.513	6.5	19.3
9 8	21 59.29	-16 7.6	1.609	2.580	7.5	20.4	9 8	21 59.34	-24 40.5	1.548	2.499	9.8	19.5
9 18	21 51.12	-16 13.9	1.663	2.577	11.6	20.7	9 18	21 51.23	-24 12.5	1.593	2.484	13.4	19.7
9 28	21 45.33	-16 7.2	1.740	2.574	15.1	20.9	9 28	21 45.66	-23 26.4	1.659	2.471	16.7	19.9
486155	2012 XW ₁₀₅		8 24.4	242°25	3.1/26.9	18	300653	2007 UZ ₈₈		8 24.4	219°66	0.3/24.2	18
7 20	22 39.44	- 1 29.4	2.188	3.005	13.5	21.4	7 20	22 36.88	- 9 25.0	1.958	2.815	13.4	21.5
7 30	22 34.21	- 1 10.8	2.095	2.995	10.8	21.2	7 30	22 32.41	- 9 54.0	1.883	2.813	10.1	21.3
8 9	22 27.13	- 1 4.6	2.024	2.984	7.6	21.0	8 9	22 26.03	-10 33.4	1.830	2.812	6.3	21.0
8 19	22 18.68	- 1 10.2	1.979	2.973	4.4	20.7	8 19	22 18.32	-11 19.2	1.803	2.811	2.2	20.8
8 29	22 9.63	- 1 25.8	1.961	2.962	3.2	20.6	8 29	22 10.07	-12 6.3	1.803	2.810	2.1	20.8
9 8	22 0.84	- 1 47.9	1.972	2.951	5.7	20.8	9 8	22 2.22	-12 49.3	1.831	2.808	6.2	21.0
9 18	21 53.15	- 2 12.7	2.010	2.939	9.0	21.0	9 18	21 55.62	-13 23.9	1.885	2.807	9.9	21.3
9 28	21 47.26	- 2 36.1	2.072	2.927	12.2	21.1	9 28	21 50.96	-13 47.2	1.961	2.805	13.2	21.5
42479	Tolik		8 24.4	352°28	4.8/20.7	18	350992	2003 GP ₄₁		8 24.4	81°30	1.1/23.2	18
7 20	22 36.56	-19 32.1	1.477	2.368	15.0	17.2	7 20	22 34.54	-10 15.8	2.158	3.017	12.2	20.9
7 30	22 32.78	-20 31.8	1.415	2.364	11.3	16.9	7 30	22 30.40	-11 19.7	2.098	3.031	9.1	20.7
8 9	22 26.53	-21 35.5	1.375	2.361	7.5	16.7	8 9	22 24.64	-12 33.1	2.062	3.046	5.6	20.5
8 19	22 18.50	-22 35.3	1.358	2.359	4.9	16.5	8 19	22 17.78	-13 50.7	2.052	3.061	2.0	20.3
8 29	22 9.81	-23 22.5	1.366	2.357	6.3	16.6	8 29	22 10.55	-15 6.4	2.071	3.075	2.5	20.4
9 8	22 1.74	-23 50.9	1.399	2.356	10.0	16.8	9 8	22 3.74	-16 14.3	2.119	3.090	6.0	20.7
9 18	21 55.38	-23 57.7	1.454	2.355	13.8	17.1	9 18	21 58.07	-17 10.4	2.193	3.104	9.3	20.9
9 28	21 51.58	-23 43.1	1.529	2.355	17.2	17.3	9 28	21 54.09	-17 51.8	2.290	3.119	12.1	21.1
511180	2013 YE ₉₃		8 24.4	207°43	5.9/18.3	17	162874	2001 FV ₁₂		8 24.4	61°07	3.6/28.2	16
7 20	22 39.28	-24 28.6	1.992	2.868	12.4	21.8	7 20	22 33.81	+ 3 16.9	1.773	2.592	16.1	20.3
7 30	22 34.38	-25 56.5	1.927	2.864	9.6	21.6	7 30	22 30.22	+ 2 38.2	1.701	2.600	12.9	20.1
8 9	22 27.34	-27 24.6	1.886	2.860	7.0	21.5	8 9	22 24.71	+ 1 36.7	1.650	2.608	9.2	19.9
8 19	22 18.78	-28 44.6	1.872	2.855	5.9	21.4	8 19	22 17.85	+ 0 15.0	1.623	2.615	5.5	19.7
8 29	22 9.60	-29 48.8	1.884	2.850	7.3	21.5	8 29	22 10.47	- 1 21.1	1.622	2.623	3.6	19.6
9 8	22 0.85	-30 31.9	1.922	2.844	10.0	21.6	9 8	22 3.54	- 3 3.6	1.648	2.631	6.0	19.8
9 18	21 53.50	-30 51.8	1.985	2.838	12.8	21.8	9 18	21 57.89	- 4 43.9	1.701	2.639	9.7	20.0
9 28	21 48.30	-30 49.3	2.067	2.832	15.4	22.0	9 28	21 54.23	- 6 14.6	1.777	2.647	13.2	20.2
438620	2007 XM ₅₃		8 24.4	302°65	6.4/28.5	17	491287	2011 VH ₉		8 24.4	309°95	5.5/29.2	16
7 20	22 39.44	+ 3 51.9	1.818	2.623	16.3	20.8	7 20	22 33.23	+ 4 58.5	1.721	2.536	16.7	21.5
7 30	22 34.77	+ 4 49.9	1.716	2.599	13.6	20.5	7 30	22 30.12	+ 5 5.0	1.623	2.514	13.9	21.2
8 9	22 27.82	+ 5 32.4	1.634	2.575	10.6	20.3	8 9	22 24.89	+ 4 49.0	1.544	2.492	10.6	21.0
8 19	22 19.05	+ 5 57.1	1.575	2.551	7.7	20.1	8 19	22 18.00	+ 4 9.6	1.487	2.470	7.3	20.8
8 29	22 9.32	+ 6 3.3	1.542	2.527	6.4	19.9	8 29	22 10.27	+ 3 9.0	1.455	2.449	5.5	20.6
9 8	21 59.71	+ 5 53.0	1.534	2.504	8.0	20.0	9 8	22 2.73	+ 1 52.9	1.448	2.428	7.2	20.7
9 18	21 51.32	+ 5 30.3	1.552	2.480	11.2	20.1	9 18	21 56.40	+ 0 28.9	1.466	2.407	10.8	20.8
9 28	21 45.09	+ 5 1.2	1.592	2.457	14.7	20.3	9 28	21 52.17	- 0 54.4	1.507	2.387	14.5	21.0
509063	2005 TU ₁₀₂		8 24.4	326°78	1.1/25.2	18	321650	2010 BH ₆		8 24.4	175°16	4.6/19.7	18
7 20	22 34.77	- 6 56.9	1.268	2.146	17.8	21.2	7 20	22 38.88	-21 26.7	2.086	2.958	12.0	20.9
7 30	22 31.87	- 7 4.5	1.188	2.129	13.8	20.9	7 30	22 33.89	-22 41.9	2.022	2.960	9.1	20.7
8 9	22 26.25	- 7 29.3	1.128	2.112	9.0	20.6	8 9	22 26.95	-23 58.7	1.982	2.961	6.2	20.5
8 19	22 18.53	- 8 8.2	1.089	2.096	3.7	20.2	8 19	22 18.64	-25 10.3	1.970	2.963	4.6	20.4
8 29	22 9.80	- 8 55.1	1.074	2.082	2.5	20.1	8 29	22 9.81	-26 9.7	1.984	2.963	5.9	20.5
9 8	22 1.48	- 9 42.2	1.082	2.068	8.0	20.4	9 8	22 1.43	-26 52.1	2.026	2.963	8.6	20.7
9 18	21 54.91	-10 22.2	1.113	2.055	13.3	20.7	9 18	21 54.36	-27 15.0	2.093	2.963	11.6	20.9
9 28	21 51.13	-10 49.2	1.163	2.043	17.9	20.9	9 28	21 49.28	-27 18.5	2.181	2.963	14.2	21.1
508021	2015 BA ₃₉₄		8 24.4	202°92	4.6/20.7	17	183910	2004 CY ₉₉		8 24.4	228°28	2.3/22.6	18
7 20	22 39.67	-18 29.1	1.584	2.466	14.7	21.6	7 20	22 40.89	-14 20.6	1.860	2.725	13.6	20.5
7 30	22 35.02	-19 43.7	1.520	2.464	11.0	21.4	7 30	22 35.68	-15 6.1	1.778	2.714	10.3	20.3
8 9	22 27.91	-21 4.2	1.477	2.462	7.2	21.1	8 9	22 28.24	-15 59.6	1.718	2.703	6.4	20.0
8 19	22 19.02	-22 21.8	1.460	2.461	4.6	21.0	8 19	22 19.16	-16 55.5	1.685	2.692	2.8	19.8
8 29	22 9.44	-23 27.6	1.469	2.458	6.1	21.1	8 29	22 9.35	-17 47.1	1.679	2.679	3.7	19.8
9 8	22 0.42	-24 14.6	1.503	2.456	9.8	21.3	9 8	21 59.91	-18 28.4	1.700	2.666	7.7	20.0
9 18	21 53.08	-24 39.3	1.561	2.453	13.5	21.5	9 18	21 51.85	-18 55.4	1.747	2.653	11.6	20.2
9 28	21 48.26	-24 41.5	1.639	2.451	16.9	21.7	9 28	21 46.01	-19 6.3	1.816	2.639	15.0	20.4
561	Ingwelde		8 24.4	221°95	0.1/24.5	18	263593	2008 FM ₁₁₅		8 24.4	26°38	0.6/24.9	18
7 20	22 34.67	- 8 28.8	2.651	3									

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8 24.4

8 24.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
386102	2007 <i>RL</i> ₃₉		8 24.4 356°75	2°0/23.1	18		260503	2005 <i>EJ</i> ₂₃		8 24.5 44°34	0°9/25.0	17	
7 20	22 37.28	-13 58.4	1.430	2.314	15.9	20.3	7 20	22 39.64	-7 19.9	1.291	2.161	18.1	20.5
7 30	22 33.33	-14 20.5	1.365	2.311	11.9	20.0	7 30	22 35.23	-7 30.0	1.231	2.168	13.8	20.2
8 9	22 26.89	-14 50.8	1.320	2.308	7.4	19.8	8 9	22 28.15	-7 55.8	1.191	2.174	8.9	20.0
8 19	22 18.68	-15 23.8	1.299	2.307	2.9	19.5	8 19	22 19.16	-8 33.3	1.174	2.181	3.5	19.7
8 29	22 9.80	-15 53.1	1.302	2.306	3.6	19.5	8 29	22 9.52	-9 15.9	1.181	2.189	2.4	19.6
9 8	22 1.54	-16 12.5	1.331	2.306	8.2	19.8	9 8	22 0.61	-9 56.4	1.213	2.196	7.7	20.0
9 18	21 55.01	-16 18.7	1.382	2.307	12.6	20.1	9 18	21 53.64	-10 28.8	1.268	2.204	12.5	20.3
9 28	21 51.04	-16 9.9	1.455	2.309	16.4	20.3	9 28	21 49.44	-10 48.9	1.343	2.212	16.6	20.6
282257	2002 <i>JA</i> ₇₅		8 24.4 44°03	8°7/1.6	16		238591	2004 <i>YS</i> ₂₁		8 24.5 14°65	1°7/23.0	18	
7 20	22 35.65	+12 9.5	1.477	2.261	20.4	20.1	7 20	22 36.47	-12 10.3	1.716	2.588	14.2	20.4
7 30	22 31.86	+12 39.2	1.423	2.281	17.3	20.0	7 30	22 32.36	-12 58.9	1.648	2.588	10.7	20.2
8 9	22 25.83	+12 38.6	1.387	2.302	14.0	19.8	8 9	22 26.14	-13 57.6	1.602	2.589	6.6	20.0
8 19	22 18.27	+12 6.5	1.370	2.324	10.9	19.7	8 19	22 18.42	-15 0.7	1.581	2.590	2.5	19.7
8 29	22 10.22	+11 5.5	1.375	2.346	8.9	19.6	8 29	22 10.12	-16 1.1	1.587	2.591	3.2	19.8
9 8	22 2.83	+9 42.6	1.404	2.368	9.2	19.7	9 8	22 2.31	-16 52.2	1.619	2.592	7.4	20.1
9 18	21 57.07	+8 7.5	1.457	2.391	11.4	19.9	9 18	21 55.92	-17 29.6	1.677	2.593	11.3	20.3
9 28	21 53.66	+6 30.4	1.533	2.414	14.3	20.1	9 28	21 51.71	-17 50.7	1.755	2.594	14.7	20.5
198185	2004 <i>TC</i> ₁₁₄		8 24.4 249°12	2°0/26.3	18		106962	2000 <i>YO</i> ₈₀		8 24.5 325°02	2°5/25.8	18	
7 20	22 37.77	-2 52.5	2.116	2.945	13.5	20.7	7 20	22 33.73	-5 35.1	1.063	1.950	19.8	18.9
7 30	22 33.11	-3 7.6	2.018	2.928	10.6	20.4	7 30	22 31.66	-5 20.6	0.980	1.924	15.7	18.5
8 9	22 26.55	-3 37.1	1.942	2.910	7.2	20.2	8 9	22 26.50	-5 25.5	0.915	1.899	10.6	18.2
8 19	22 18.57	-4 19.1	1.891	2.892	3.6	19.9	8 19	22 18.78	-5 48.6	0.870	1.876	5.0	17.8
8 29	22 9.89	-5 10.0	1.868	2.873	2.3	19.8	8 29	22 9.71	-6 25.2	0.846	1.853	3.2	17.6
9 8	22 1.41	-6 4.6	1.873	2.854	5.7	20.0	9 8	22 0.94	-7 7.4	0.843	1.832	8.9	17.8
9 18	21 54.01	-6 57.7	1.905	2.834	9.4	20.2	9 18	21 54.11	-7 46.5	0.861	1.812	14.9	18.1
9 28	21 48.43	-7 44.3	1.961	2.814	12.9	20.4	9 28	21 50.54	-8 14.9	0.897	1.794	20.2	18.3
208894	2002 <i>TE</i> ₁₂₀		8 24.4 29°08	3°8/21.9	18		435164	2007 <i>OQ</i> ₁		8 24.5 2°77	2°5/26.9	18	
7 20	22 42.96	-20 33.6	1.777	2.649	13.8	20.1	7 20	22 21.62	+1 47.1	0.987	1.872	21.2	19.3
7 30	22 37.12	-20 51.2	1.713	2.652	10.4	19.8	7 30	22 22.17	+0 29.7	0.929	1.869	16.7	19.0
8 9	22 29.03	-21 8.9	1.672	2.654	6.8	19.6	8 9	22 20.21	+1 26.5	0.887	1.868	11.4	18.7
8 19	22 19.40	-21 21.3	1.655	2.657	4.0	19.5	8 19	22 16.38	+3 55.1	0.866	1.870	5.7	18.4
8 29	22 9.29	-21 23.3	1.666	2.660	4.9	19.5	8 29	22 11.82	+6 42.2	0.866	1.874	2.9	18.3
9 8	21 59.84	-21 11.7	1.704	2.663	8.3	19.8	9 8	22 7.87	+9 28.9	0.890	1.881	8.0	18.6
9 18	21 52.05	-20 45.8	1.766	2.666	11.8	20.0	9 18	22 5.68	+11 57.9	0.935	1.890	13.5	18.9
9 28	21 46.63	-20 6.4	1.851	2.670	14.9	20.2	9 28	22 6.12	+13 57.0	1.000	1.901	18.3	19.2
71087	1999 <i>XV</i> ₁₂₇		8 24.5 156°71	5°1/30.2	18		121809	2000 <i>AA</i> ₁₉₄		8 24.5 255°51	0°5/25.1	18	
7 20	22 36.32	+7 41.9	2.721	3.483	12.5	19.6	7 20	22 33.36	-5 24.5	2.616	3.451	11.0	20.2
7 30	22 31.49	+8 7.4	2.637	3.487	10.5	19.5	7 30	22 29.45	-6 11.6	2.519	3.436	8.5	20.0
8 9	22 25.26	+8 18.1	2.573	3.491	8.2	19.3	8 9	22 24.08	-7 10.6	2.445	3.421	5.5	19.8
8 19	22 18.03	+8 13.4	2.534	3.494	6.2	19.2	8 19	22 17.66	-8 18.5	2.399	3.405	2.2	19.5
8 29	22 10.40	+7 54.4	2.523	3.497	5.1	19.2	8 29	22 10.75	-9 31.1	2.382	3.389	1.5	19.4
9 8	22 3.02	+7 23.6	2.539	3.500	5.8	19.2	9 8	22 4.02	-10 43.1	2.394	3.373	4.8	19.6
9 18	21 56.52	+6 44.8	2.583	3.503	7.7	19.3	9 18	21 58.10	-11 50.0	2.434	3.356	8.0	19.8
9 28	21 51.43	+6 2.2	2.652	3.505	9.9	19.5	9 28	21 53.58	-12 47.7	2.500	3.339	10.9	20.0
449390	2013 <i>GV</i> ₁₀₈		8 24.5 51°01	4°2/29.1	18		4541	Mizuno		8 24.5 238°04	3°4/21.9	18	
7 20	22 33.32	+4 35.9	2.199	2.998	14.0	20.8	7 20	22 39.82	-16 17.1	1.530	2.409	15.2	16.6
7 30	22 29.54	+4 26.8	2.121	3.003	11.4	20.6	7 30	22 35.19	-17 10.8	1.464	2.408	11.4	16.3
8 9	22 24.16	+3 59.6	2.064	3.008	8.5	20.5	8 9	22 28.07	-18 11.7	1.419	2.406	7.2	16.1
8 19	22 17.66	+3 15.3	2.032	3.014	5.7	20.3	8 19	22 19.15	-19 12.5	1.399	2.404	3.7	15.9
8 29	22 10.73	+2 16.9	2.026	3.019	4.2	20.2	8 29	22 9.54	-20 4.9	1.405	2.402	5.0	16.0
9 8	22 4.14	+1 9.5	2.047	3.025	5.6	20.3	9 8	22 0.51	-20 42.4	1.436	2.401	9.0	16.2
9 18	21 58.59	+0 1.2	2.095	3.030	8.4	20.5	9 18	21 53.20	-21 1.1	1.491	2.399	13.1	16.4
9 28	21 54.65	+1 9.4	2.169	3.036	11.2	20.7	9 28	21 48.44	-21 0.3	1.567	2.397	16.7	16.7
402380	2005 <i>YC</i> ₂₁		8 24.5 206°40	3°5/20.4	18		315123	2007 <i>EE</i> ₈₂		8 24.5 142°29	0°2/24.3	18	
7 20	22 35.00	-19 16.1	2.360	3.231	10.9	21.2	7 20	22 33.52	-7 9.4	2.532	3.375	11.1	20.6
7 30	22 30.78	-20 22.0	2.291	3.230	8.1	21.0	7 30	22 29.50	-8 12.1	2.457	3.380	8.4	20.4
8 9	22 24.93	-21 31.0	2.247	3.229	5.3	20.8	8 9	22 24.06	-9 25.5	2.406	3.386	5.2	20.2
8 19	22 17.94	-22 37.3	2.230	3.228	3.6	20.7	8 19	22 17.63	-10 45.7	2.383	3.391	1.8	20.0
8 29	22 10.50	-23 35.4	2.241	3.227	4.6	20.8	8 29	22 10.82	-12 7.4	2.389	3.395	1.7	20.0
9 8	22 3.40	-24 20.6	2.280	3.226	7.3	21.0	9 8	22 4.30	-13 25.2	2.424	3.400	5.0	20.2
9 18	21 57.36	-24 50.3	2.344	3.225	10.1	21.1	9 18	21 58.69	-14 34.4	2.488	3.404	8.1	20.4
9 28	21 52.98	-25 3.5	2.430	3.223	12.6	21.3	9 28	21 54.52	-15 31.8	2.577	3.409	10.8	20.6
254186	2004 <i>RG</i> ₂₆		8 24.5 306°38	1°1/23.4	18		118244	1997 <i>RV</i> ₁₀		8 24.5 352°02	1°6/25.5	18	
7 20	22 33.95	-11 5.0	2.007	2.872	12.7	20.3	7 20	22 33.05	-5 53.5	1.137	2.021	19.0	19.4
7 30	22 30.32	-11 49.3	1.920	2.856	9.6	20.0	7 30	22 30.68	-5 58.8	1.071	2.014	14.7	19.1
8 9	22 24.83	-12 44.0	1.855	2.840	6.0	19.8	8 9	22 25.54	-6 23.6	1.023	2.008	9.7	18.8
8 19	22 17.96	-13 44.5	1.816	2.825	2.1	19.5	8 19	22 18.32	-7 4.6	0.996	2.003	4.2	18.5
8 29	22 10.46	-14 45.2	1.805	2.809	2.6	19.5	8 29	22 10.24	-7 55.2	0.991	1.999	2.6	18.4
9 8	22 3.24	-15 39.9	1.820	2.794	6.6	19.7	9 8	22 2.75	-8 46.7	1.009	1.997	8.1	18.7
9 18	21 57.14	-16 24.0	1.861	2.779	10.3	19.9	9 18	21 57.17	-9 31.1	1.049	1.996	13.3	19.0
9 28	21 52.88	-16 54.1	1.925	2.764	13.6	20.1	9 28	21 54.45	-10 2.2	1.108	1.997	17.9	19.3
342083	2008 <i>SR</i> ₄₂		8 24.5 324°63	8°9/3.4	16		441892	2010 <i>CU</i> ₁₈₁		8 24.5 184°74	1°1/23.4	16	
7 20	22 33.56	+17											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
336726	2010 <i>DW</i> ₃₄		8 24.5 292°99	0°9/23.7	18		79744	1998 <i>SB</i> ₁₄₅		8 24.5 337°30	0°6/24.9	18	
7 20	22 36.66	-10 13.3	1.611	2.481	15.1	21.0	7 20	22 31.81	-6 39.2	1.140	2.029	18.7	18.8
7 30	22 32.84	-10 52.0	1.525	2.464	11.5	20.8	7 30	22 29.86	-7 6.7	1.067	2.014	14.4	18.5
8 9	22 26.67	-11 43.9	1.461	2.447	7.2	20.5	8 9	22 25.13	-7 55.4	1.013	2.000	9.3	18.2
8 19	22 18.71	-12 44.3	1.421	2.430	2.5	20.2	8 19	22 18.24	-9 0.9	0.979	1.987	3.6	17.8
8 29	22 9.89	-13 46.2	1.407	2.413	2.8	20.1	8 29	22 10.37	-10 14.9	0.968	1.976	2.6	17.7
9 8	22 1.40	-14 42.0	1.419	2.396	7.6	20.4	9 8	22 2.97	-11 26.7	0.979	1.966	8.5	18.0
9 18	21 54.34	-15 25.8	1.455	2.379	12.2	20.6	9 18	21 57.41	-12 27.0	1.012	1.957	14.0	18.3
9 28	21 49.63	-15 53.7	1.512	2.363	16.1	20.8	9 28	21 54.75	-13 9.1	1.064	1.949	18.8	18.5
94327	2001 <i>FN</i> ₁₄₀		8 24.5 258°30	2°7/21.5	18		121023	1999 <i>BV</i> ₂₅		8 24.5 265°36	4°0/27.3	18	
7 20	22 35.81	-17 29.0	2.431	3.297	10.8	19.4	7 20	22 38.73	-0 5.2	1.391	2.235	18.5	18.6
7 30	22 31.39	-18 15.9	2.349	3.287	8.0	19.2	7 30	22 34.63	-0 0.9	1.314	2.229	14.8	18.4
8 9	22 25.34	-19 6.8	2.292	3.276	5.1	19.0	8 9	22 27.90	-0 18.6	1.256	2.223	10.5	18.1
8 19	22 18.13	-19 56.9	2.262	3.265	2.9	18.8	8 19	22 19.19	-0 57.4	1.220	2.217	6.1	17.8
8 29	22 10.42	-20 41.3	2.260	3.254	3.8	18.9	8 29	22 9.60	-1 52.9	1.208	2.210	4.2	17.7
9 8	22 3.01	-21 15.8	2.286	3.243	6.7	19.1	9 8	22 0.45	-2 57.7	1.220	2.204	7.6	17.9
9 18	21 56.59	-21 37.6	2.338	3.232	9.6	19.2	9 18	21 52.99	-4 3.4	1.257	2.198	12.2	18.1
9 28	21 51.80	-21 45.4	2.414	3.220	12.3	19.4	9 28	21 48.20	-5 2.1	1.315	2.192	16.4	18.4
476832	2008 <i>UB</i> ₂₈₀		8 24.5 315°16	3°8/21.8	16		506496	2003 <i>UZ</i> ₃₇₇		8 24.5 293°04	2°1/25.9	17	
7 20	22 36.15	-16 12.7	1.385	2.276	15.8	22.1	7 20	22 36.69	-3 42.9	1.385	2.245	17.7	22.2
7 30	22 33.03	-17 1.9	1.293	2.243	12.1	21.7	7 30	22 33.26	-3 59.2	1.297	2.225	13.9	21.9
8 9	22 27.14	-18 1.5	1.221	2.211	7.8	21.4	8 9	22 27.17	-4 36.2	1.228	2.206	9.4	21.6
8 19	22 18.99	-19 4.5	1.173	2.179	4.0	21.1	8 19	22 18.98	-5 31.6	1.181	2.186	4.4	21.2
8 29	22 9.61	-20 1.5	1.148	2.147	5.5	21.1	8 29	22 9.72	-6 39.5	1.159	2.166	2.7	21.1
9 8	22 0.45	-20 43.6	1.148	2.116	10.3	21.3	9 8	22 0.74	-7 51.6	1.162	2.147	7.7	21.3
9 18	21 52.91	-21 4.9	1.169	2.086	15.2	21.5	9 18	21 53.34	-8 59.0	1.188	2.128	12.8	21.6
9 28	21 48.18	-21 2.9	1.209	2.056	19.6	21.7	9 28	21 48.62	-9 54.3	1.234	2.108	17.5	21.8
186928	2004 <i>PV</i> ₇₂		8 24.5 307°65	1°8/22.8	18		423364	2005 <i>JP</i> ₃₅		8 24.5 47°93	4°2/21.4	17	
7 20	22 35.00	-13 18.7	1.950	2.821	12.9	20.4	7 20	22 38.18	-15 44.6	1.195	2.090	17.5	20.6
7 30	22 31.22	-13 58.4	1.861	2.800	9.7	20.1	7 30	22 34.22	-17 3.0	1.155	2.107	13.0	20.4
8 9	22 25.46	-14 46.7	1.794	2.780	6.0	19.9	8 9	22 27.52	-18 29.7	1.134	2.124	8.1	20.2
8 19	22 18.23	-15 39.0	1.752	2.760	2.4	19.6	8 19	22 18.96	-19 54.2	1.137	2.142	4.4	20.0
8 29	22 10.31	-16 29.3	1.738	2.740	3.2	19.6	8 29	22 9.90	-21 5.7	1.164	2.160	5.9	20.2
9 8	22 2.66	-17 11.9	1.750	2.721	7.1	19.8	9 8	22 1.78	-21 56.1	1.214	2.179	10.2	20.5
9 18	21 56.18	-17 42.6	1.787	2.702	10.9	20.0	9 18	21 55.76	-22 22.3	1.286	2.198	14.4	20.8
9 28	21 51.64	-17 58.5	1.847	2.683	14.3	20.2	9 28	21 52.58	-22 24.3	1.377	2.217	18.0	21.1
31398	1998 <i>YU</i> ₂₉		8 24.5 304°34	9°3/16.6	18		266266	2007 <i>AL</i> ₆		8 24.5 140°72	0°7/23.9	17	
7 20	22 39.49	-28 10.8	1.407	2.300	15.5	18.1	7 20	22 39.74	-9 50.7	1.805	2.662	14.3	21.5
7 30	22 35.77	-29 49.6	1.329	2.271	12.6	17.8	7 30	22 34.68	-10 30.4	1.739	2.670	10.8	21.3
8 9	22 28.96	-31 28.4	1.272	2.241	10.1	17.6	8 9	22 27.54	-11 20.9	1.695	2.678	6.7	21.1
8 19	22 19.66	-32 55.0	1.237	2.212	9.4	17.5	8 19	22 18.96	-12 17.5	1.677	2.685	2.3	20.8
8 29	22 9.09	-33 56.9	1.226	2.183	11.3	17.5	8 29	22 9.86	-13 13.9	1.686	2.692	2.4	20.8
9 8	21 58.89	-34 25.5	1.237	2.155	14.6	17.6	9 8	22 1.28	-14 4.0	1.723	2.698	6.7	21.1
9 18	21 50.61	-34 18.3	1.268	2.126	18.3	17.8	9 18	21 54.14	-14 43.2	1.785	2.704	10.6	21.4
9 28	21 45.49	-33 38.0	1.315	2.098	21.7	18.0	9 28	21 49.15	-15 8.9	1.870	2.710	14.0	21.6
339295	2004 <i>XT</i> ₅₂		8 24.5 324°76	7°2/18.3	18		134937	2001 <i>BH</i> ₂₁		8 24.5 317°91	0°9/24.9	18	
7 20	22 33.91	-22 17.1	1.339	2.241	15.5	20.1	7 20	22 40.43	-8 56.9	1.265	2.140	18.1	19.0
7 30	22 31.35	-23 55.0	1.267	2.220	12.0	19.9	7 30	22 36.20	-8 43.9	1.189	2.128	14.0	18.7
8 9	22 26.03	-25 38.7	1.217	2.200	8.6	19.6	8 9	22 29.04	-8 43.5	1.132	2.116	9.0	18.4
8 19	22 18.56	-27 16.9	1.189	2.181	7.2	19.5	8 19	22 19.64	-8 53.0	1.098	2.105	3.6	18.1
8 29	22 10.08	-28 37.3	1.185	2.162	9.1	19.6	8 29	22 9.24	-9 7.5	1.087	2.095	2.5	18.0
9 8	22 2.04	-29 30.6	1.203	2.145	12.9	19.7	9 8	21 59.36	-9 21.2	1.100	2.084	8.2	18.3
9 18	21 55.79	-29 52.3	1.242	2.128	16.8	19.9	9 18	21 51.40	-9 29.1	1.136	2.075	13.4	18.5
9 28	21 52.39	-29 42.8	1.299	2.112	20.4	20.1	9 28	21 46.42	-9 27.5	1.192	2.066	18.0	18.8
447293	2005 <i>WB</i> ₄₈		8 24.5 216°88	5°7/30.8	17		350145	2011 <i>SH</i> ₇₂		8 24.5 294°21	0°7/23.9	18	
7 20	22 35.24	+ 9 12.5	2.510	3.270	13.5	21.5	7 20	22 38.64	-11 43.2	1.868	2.730	13.7	20.9
7 30	22 30.89	+ 9 32.4	2.419	3.266	11.4	21.3	7 30	22 33.92	-11 58.1	1.788	2.722	10.3	20.7
8 9	22 25.01	+ 9 35.1	2.349	3.262	9.1	21.1	8 9	22 27.13	-12 21.1	1.731	2.715	6.5	20.5
8 19	22 18.03	+ 9 20.0	2.302	3.258	6.9	21.0	8 19	22 18.84	-12 48.5	1.699	2.707	2.3	20.2
8 29	22 10.57	+ 8 47.9	2.282	3.254	5.7	20.9	8 29	22 9.95	-13 15.5	1.694	2.700	2.4	20.2
9 8	22 3.34	+ 8 2.1	2.289	3.250	6.4	20.9	9 8	22 1.45	-13 37.4	1.716	2.693	6.6	20.4
9 18	21 57.03	+ 7 6.9	2.323	3.246	8.3	21.1	9 18	21 54.29	-13 50.6	1.764	2.686	10.6	20.6
9 28	21 52.21	+ 6 7.7	2.382	3.241	10.6	21.2	9 28	21 49.22	-13 53.1	1.835	2.679	14.0	20.9
92926	2000 <i>RX</i> ₂₂		8 24.5 229°89	3°4/27.8	18		272556	2005 <i>UQ</i> ₄₄₃		8 24.5 292°02	0°5/24.9	17	
7 20	22 36.63	+ 1 40.6	2.038	2.851	14.5	19.8	7 20	22 39.64	-8 21.6	1.579	2.440	15.8	20.7
7 30	22 32.29	+ 1 23.2	1.947	2.842	11.7	19.6	7 30	22 34.99	-8 29.1	1.503	2.435	12.1	20.4
8 9	22 26.07	+ 0 47.3	1.876	2.833	8.4	19.4	8 9	22 27.96	-8 48.9	1.448	2.429	7.8	20.2
8 19	22 18.46	+ 0 5.6	1.830	2.823	5.0	19.2	8 19	22 19.18	-9 17.8	1.417	2.424	3.0	19.9
8 29	22 10.21	+ 1 11.8	1.811	2.812	3.4	19.1	8 29	22 9.67	-9 50.5	1.412	2.419	2.2	19.8
9 8	22 2.22	+ 2 25.7	1.820	2.801	5.8	19.2	9 8	22 0.64	-10 21.4	1.433	2.414	7.0	20.1
9 18	21 55.34	+ 3 40.8	1.856	2.790	9.4	19.4	9 18	21 53.19	-10 45.5	1.479	2.410	11.5	20.4
9 28	21 50.31	+ 4 50.7	1.917	2.778	12.7	19.6	9 28	21 48.15	-10 59.4	1.546	2.405	15.4	20.6
12888	1998 <i>QR</i> ₄₂		8 24.5 156°37	2°5/27.8	18		115386	2003 <i>SP</i> ₂₇₅		8 24.5 231°60			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
41153	1999 VB ₁₅₀	8 24.5 124°71		0°3/24.8 18			250845	2005 UK ₁₉₀	8 24.5 240°04		2°5/21.7 18		
7 20	22 35.93	- 7 54.3	2.428	3.271	11.6	19.7	7 20	22 37.08	-17 30.5	2.597	3.458	10.3	21.2
7 30	22 31.33	- 8 16.4	2.355	3.278	8.8	19.5	7 30	22 32.28	-18 12.3	2.511	3.446	7.7	21.0
8 9	22 25.23	- 8 47.4	2.306	3.284	5.6	19.3	8 9	22 25.90	-18 57.5	2.450	3.433	4.9	20.8
8 19	22 18.10	- 9 24.4	2.284	3.291	2.1	19.1	8 19	22 18.40	-19 42.0	2.416	3.419	2.7	20.7
8 29	22 10.60	-10 3.6	2.290	3.297	1.5	19.1	8 29	22 10.41	-20 21.2	2.411	3.406	3.5	20.7
9 8	22 3.46	-10 41.0	2.325	3.303	4.9	19.3	9 8	22 2.67	-20 51.2	2.435	3.392	6.3	20.9
9 18	21 57.31	-11 13.1	2.387	3.309	8.1	19.6	9 18	21 55.88	-21 9.5	2.485	3.377	9.2	21.0
9 28	21 52.72	-11 37.4	2.474	3.315	10.9	19.8	9 28	21 50.64	-21 15.0	2.559	3.362	11.7	21.2
436274	2010 CF ₁₄₁	8 24.5 135°98		0°8/23.8 16			48756	1997 GO ₂₈	8 24.5 46°12		2°7/22.6 18		
7 20	22 38.93	-10 50.1	1.881	2.740	13.7	22.1	7 20	22 39.05	-13 45.6	1.212	2.102	17.7	17.8
7 30	22 34.01	-11 22.6	1.813	2.745	10.3	21.9	7 30	22 34.82	-14 37.5	1.170	2.119	13.1	17.5
8 9	22 27.11	-12 4.4	1.767	2.750	6.4	21.7	8 9	22 27.87	-15 39.2	1.148	2.137	8.1	17.3
8 19	22 18.82	-12 51.1	1.747	2.755	2.2	21.5	8 19	22 19.12	-16 42.3	1.148	2.156	3.4	17.1
8 29	22 10.03	-13 37.2	1.755	2.760	2.4	21.5	8 29	22 9.90	-17 37.6	1.172	2.175	4.5	17.2
9 8	22 1.72	-14 17.1	1.790	2.765	6.5	21.8	9 8	22 1.62	-18 17.6	1.221	2.194	9.1	17.6
9 18	21 54.78	-14 46.9	1.850	2.769	10.3	22.0	9 18	21 55.42	-18 38.7	1.292	2.214	13.6	17.9
9 28	21 49.90	-15 4.3	1.934	2.773	13.6	22.2	9 28	21 52.03	-18 40.1	1.383	2.234	17.3	18.2
474455	2003 SL ₅₃	8 24.5 342°15		7°7/27.7 16			58915	1998 KA ₅₀	8 24.5 27°58		8°5/16.8 18		
7 20	22 36.33	+ 0 3.9	1.156	2.015	20.4	20.1	7 20	22 35.22	-27 45.7	1.449	2.347	14.9	17.2
7 30	22 33.39	+ 1 41.5	1.076	1.995	16.9	19.9	7 30	22 31.81	-29 35.4	1.420	2.364	11.7	17.0
8 9	22 27.48	+ 3 4.0	1.013	1.976	12.9	19.6	8 9	22 25.93	-31 18.5	1.413	2.383	9.2	17.0
8 19	22 19.17	+ 4 6.8	0.971	1.959	9.2	19.3	8 19	22 18.42	-32 44.1	1.429	2.402	8.6	17.0
8 29	22 9.63	+ 4 47.3	0.950	1.943	7.8	19.2	8 29	22 10.47	-33 43.6	1.469	2.423	10.1	17.1
9 8	22 0.44	+ 5 6.3	0.951	1.930	10.2	19.3	9 8	22 3.36	-34 12.8	1.531	2.444	12.6	17.3
9 18	21 53.11	+ 5 8.2	0.973	1.918	14.3	19.5	9 18	21 58.10	-34 12.0	1.614	2.467	15.3	17.5
9 28	21 48.86	+ 5 0.2	1.013	1.909	18.6	19.7	9 28	21 55.37	-33 44.6	1.715	2.490	17.7	17.8
511494	2014 OG ₁₁	8 24.5 87°29		2°9/27.2 18			467723	2009 FN ₈	8 24.5 165°52		0°2/24.7 17		
7 20	22 37.90	- 1 16.8	2.320	3.135	12.9	21.1	7 20	22 38.78	- 6 40.5	1.465	2.327	16.8	22.1
7 30	22 32.83	- 1 3.3	2.249	3.148	10.2	20.9	7 30	22 34.47	- 7 25.8	1.396	2.329	12.8	21.8
8 9	22 26.17	- 1 2.0	2.200	3.160	7.1	20.7	8 9	22 27.69	- 8 28.5	1.348	2.330	8.1	21.6
8 19	22 18.45	- 1 11.9	2.177	3.172	4.1	20.6	8 19	22 19.12	- 9 43.4	1.323	2.331	3.0	21.3
8 29	22 10.35	- 1 30.6	2.183	3.183	2.9	20.5	8 29	22 9.84	-11 2.5	1.325	2.332	2.3	21.2
9 8	22 2.65	- 1 54.8	2.216	3.195	5.1	20.7	9 8	22 1.09	-12 16.9	1.352	2.333	7.4	21.5
9 18	21 56.04	- 2 20.7	2.277	3.207	8.1	20.9	9 18	21 54.02	-13 19.4	1.404	2.334	12.1	21.8
9 28	21 51.07	- 2 44.9	2.362	3.218	10.8	21.1	9 28	21 49.47	-14 5.3	1.478	2.334	16.1	22.1
342037	2008 RT ₁₁₄	8 24.5 46°33		7°4/20.0 16			117810	2005 GS ₁₇₈	8 24.5 43°62		0°4/24.9 18		
7 20	22 44.78	-26 55.7	1.378	2.264	16.2	19.8	7 20	22 35.46	- 6 42.1	1.866	2.719	14.1	19.6
7 30	22 38.92	-27 43.5	1.341	2.281	12.6	19.7	7 30	22 31.47	- 7 19.3	1.794	2.721	10.7	19.4
8 9	22 30.30	-28 24.8	1.325	2.299	9.2	19.5	8 9	22 25.56	- 8 10.1	1.743	2.724	6.8	19.2
8 19	22 19.94	-28 51.0	1.332	2.318	7.4	19.5	8 19	22 18.31	- 9 10.4	1.718	2.726	2.6	18.9
8 29	22 9.25	-28 55.1	1.363	2.337	8.6	19.6	8 29	22 10.52	-10 14.4	1.720	2.728	1.8	18.9
9 8	21 59.70	-28 34.7	1.418	2.356	11.5	19.8	9 8	22 3.15	-11 15.7	1.750	2.730	6.1	19.2
9 18	21 52.40	-27 51.5	1.495	2.376	14.7	20.1	9 18	21 57.05	-12 9.0	1.805	2.733	10.0	19.4
9 28	21 48.03	-26 49.7	1.592	2.396	17.6	20.3	9 28	21 52.89	-12 50.2	1.883	2.735	13.3	19.6
14973	Rossirosina	8 24.5 243°87		1°2/25.6 18			349821	2009 BG ₁₈₀	8 24.5 131°48		1°7/26.1 18		
7 20	22 37.82	- 5 59.1	2.039	2.881	13.5	18.3	7 20	22 37.63	- 4 5.5	2.114	2.947	13.4	20.9
7 30	22 33.13	- 6 7.1	1.956	2.876	10.4	18.1	7 30	22 32.83	- 4 18.1	2.040	2.954	10.3	20.8
8 9	22 26.57	- 6 26.7	1.895	2.870	6.8	17.9	8 9	22 26.29	- 4 43.3	1.990	2.961	6.9	20.6
8 19	22 18.66	- 6 55.5	1.859	2.864	3.0	17.6	8 19	22 18.54	- 5 18.7	1.965	2.967	3.3	20.4
8 29	22 10.18	- 7 29.8	1.851	2.858	1.9	17.5	8 29	22 10.35	- 6 0.5	1.967	2.974	2.0	20.3
9 8	22 2.04	- 8 4.8	1.871	2.852	5.7	17.8	9 8	22 2.56	- 6 43.9	1.998	2.980	5.3	20.5
9 18	21 55.07	- 8 36.5	1.917	2.846	9.4	18.0	9 18	21 55.93	- 7 24.5	2.056	2.985	8.8	20.7
9 28	21 49.98	- 9 1.0	1.987	2.840	12.7	18.2	9 28	21 51.10	- 7 58.4	2.138	2.991	11.9	21.0
94094	2000 YQ ₆₅	8 24.5 166°49		3°7/20.2 18			335101	2004 TR ₁₄₂	8 24.5 270°26		3°0/27.1 18		
7 20	22 35.95	-20 8.2	2.425	3.295	10.7	19.4	7 20	22 36.15	- 0 34.3	1.778	2.611	15.5	21.4
7 30	22 31.48	-21 13.0	2.359	3.297	8.0	19.2	7 30	22 32.20	- 0 48.6	1.692	2.601	12.3	21.2
8 9	22 25.40	-22 19.9	2.318	3.299	5.3	19.1	8 9	22 26.17	- 1 21.6	1.626	2.592	8.6	20.9
8 19	22 18.20	-23 23.5	2.304	3.300	3.7	19.0	8 19	22 18.58	- 2 11.6	1.584	2.582	4.8	20.7
8 29	22 10.58	-24 18.1	2.318	3.302	4.7	19.0	8 29	22 10.28	- 3 14.3	1.568	2.572	3.1	20.5
9 8	22 3.31	-24 59.6	2.360	3.303	7.3	19.2	9 8	22 2.29	- 4 23.1	1.578	2.561	6.3	20.7
9 18	21 57.10	-25 25.6	2.427	3.304	10.0	19.4	9 18	21 55.57	- 5 31.3	1.615	2.551	10.3	20.9
9 28	21 52.53	-25 35.4	2.517	3.305	12.3	19.5	9 28	21 50.93	- 6 32.3	1.674	2.541	14.0	21.1
193667	2001 DU ₆₄	8 24.5 266°93		0°8/25.3 18 R			500108	2012 BQ ₉₁	8 24.5 75°87		1°4/23.5 17		
7 20	22 36.83	- 5 0.9	2.060	2.900	13.4	20.7	7 20	22 41.04	-10 47.3	1.357	2.231	17.1	21.4
7 30	22 32.58	- 5 40.8	1.956	2.876	10.4	20.4	7 30	22 36.06	-11 36.0	1.310	2.251	12.8	21.2
8 9	22 26.37	- 6 36.1	1.875	2.850	6.8	20.1	8 9	22 28.56	-12 36.9	1.284	2.270	7.9	21.0
8 19	22 18.65	- 7 43.9	1.819	2.825	2.8	19.8	8 19	22 19.38	-13 43.0	1.281	2.290	2.8	20.7
8 29	22 10.14	- 8 59.0	1.791	2.799	1.8	19.7	8 29	22 9.73	-14 45.8	1.304	2.309	3.2	20.8
9 8	22 1.77	-10 14.8	1.792	2.772	6.0	20.0	9 8	22 0.95	-15 37.5	1.353	2.329	8.1	21.2
9 18	21 54.43	-11 25.1	1.819	2.744	10.1	20.1	9 18	21 54.10	-16 13.5	1.425	2.348	12.5	21.5
9 28	21 48.95	-12 24.5	1.870	2.717	13.7	20.3	9 28	21 49.91	-16 31.8	1.519	2.367	16.2	21.8
349234	2007 TY ₄₄	8 24.5 312°90		3°8/21.6 18			480503	2015 LK ₃₈	8 24.5 357°25		0°5/24.1 18		
7 20	22 37.51	-17 50.2	1.601	2.485	14.5	20.4	7 20	22 34.68	-				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
193616	2001 CZ ₁₇	8 24.5 151°55' 1.7°/22.7 17						260385	2004 VG ₆₁	8 24.5 286°62' 7.3°/15.4 18				
7 20	22 36.49	-11 18.0	2.021	2.882	12.8	20.0	7 20	22 36.88	-30 43.6	2.278	3.150	11.2	20.3	
7 30	22 32.14	-12 34.0	1.952	2.887	9.6	19.8	7 30	22 32.66	-32 18.8	2.205	3.130	9.1	20.1	
8 9	22 25.94	-14 0.4	1.907	2.892	5.9	19.6	8 9	22 26.44	-33 50.7	2.156	3.110	7.6	20.0	
8 19	22 18.45	-15 31.1	1.889	2.897	2.3	19.3	8 19	22 18.72	-35 11.6	2.134	3.090	7.4	19.9	
8 29	22 10.46	-16 58.9	1.899	2.901	3.1	19.4	8 29	22 10.32	-36 14.2	2.137	3.070	8.7	20.0	
9 8	22 2.85	-18 17.0	1.938	2.905	6.8	19.7	9 8	22 2.18	-36 53.8	2.166	3.050	10.8	20.1	
9 18	21 56.46	-19 20.2	2.002	2.908	10.3	19.9	9 18	21 55.24	-37 8.8	2.217	3.030	13.1	20.2	
9 28	21 51.93	-20 6.0	2.090	2.911	13.4	20.1	9 28	21 50.27	-37 0.2	2.287	3.010	15.2	20.3	
401297	2012 FN ₄₂	8 24.5 207°54' 1.6°/26.2 18						519280	2011 BH ₁₆₆	8 24.5 89°55' 1°/23.7 17				
7 20	22 37.17	-4 42.3	2.645	3.469	11.3	20.9	7 20	22 40.94	-11 21.6	1.588	2.454	15.5	21.5	
7 30	22 32.22	-4 37.6	2.558	3.466	8.7	20.7	7 30	22 35.77	-11 55.4	1.532	2.469	11.6	21.3	
8 9	22 25.80	-4 41.9	2.495	3.464	5.9	20.5	8 9	22 28.33	-12 39.1	1.498	2.483	7.2	21.1	
8 19	22 18.37	-4 53.9	2.459	3.461	2.9	20.3	8 19	22 19.35	-13 27.4	1.489	2.497	2.5	20.8	
8 29	22 10.52	-5 11.3	2.452	3.457	1.9	20.3	8 29	22 9.89	-14 13.5	1.506	2.511	2.8	20.9	
9 8	22 2.95	-5 31.0	2.474	3.454	4.6	20.5	9 8	22 1.14	-14 51.4	1.549	2.525	7.3	21.2	
9 18	21 56.28	-5 50.2	2.524	3.450	7.5	20.6	9 18	21 54.05	-15 17.2	1.618	2.539	11.4	21.5	
9 28	21 51.06	-6 6.0	2.599	3.447	10.2	20.8	9 28	21 49.36	-15 28.8	1.708	2.552	14.9	21.7	
515441	2013 TX ₃₃	8 24.5 17°34' 0.4°/24.1 18						337294	2000 XE ₁₉	8 24.5 322°89' 0.6°/24.2 17				
7 20	22 32.14	-10 1.4	2.229	3.090	11.8	20.2	7 20	22 37.28	-11 49.7	1.249	2.136	17.5	20.7	
7 30	22 28.65	-10 30.7	2.165	3.098	8.8	20.0	7 30	22 34.25	-11 45.0	1.152	2.099	13.5	20.4	
8 9	22 23.63	-11 8.3	2.123	3.107	5.5	19.8	8 9	22 28.19	-11 50.8	1.074	2.063	8.7	20.0	
8 19	22 17.59	-11 50.7	2.108	3.116	1.9	19.6	8 19	22 19.58	-12 3.3	1.018	2.027	3.2	19.6	
8 29	22 11.19	-12 33.4	2.120	3.126	1.8	19.6	8 29	22 9.51	-12 17.1	0.985	1.992	3.0	19.5	
9 8	22 5.18	-13 12.0	2.159	3.137	5.4	19.9	9 8	21 59.53	-12 25.6	0.975	1.958	9.1	19.7	
9 18	22 0.20	-13 43.2	2.225	3.148	8.6	20.1	9 18	21 51.26	-12 23.6	0.986	1.925	14.9	19.9	
9 28	21 56.79	-14 4.3	2.315	3.160	11.4	20.3	9 28	21 46.06	-12 7.6	1.016	1.894	20.1	20.1	
288415	2004 DO ₅₀	8 24.5 304°80' 2°5'/26.2 18						114400	2002 YG ₁₅	8 24.5 343°24' 5°8'/19.7 18				
7 20	22 38.01	-4 10.7	1.710	2.556	15.5	20.2	7 20	22 32.11	-20 2.4	1.321	2.225	15.6	18.0	
7 30	22 33.93	-3 58.1	1.605	2.524	12.3	19.9	7 30	22 29.90	-21 20.6	1.255	2.210	11.8	17.7	
8 9	22 27.50	-3 59.4	1.521	2.493	8.4	19.6	8 9	22 25.08	-22 45.0	1.209	2.197	8.0	17.5	
8 19	22 19.16	-4 13.9	1.460	2.461	4.3	19.3	8 19	22 18.30	-24 5.8	1.186	2.184	5.9	17.3	
8 29	22 9.79	-4 38.6	1.425	2.430	2.9	19.1	8 29	22 10.68	-25 12.2	1.186	2.173	7.6	17.4	
9 8	22 0.52	-5 8.9	1.416	2.399	6.8	19.3	9 8	22 3.58	-25 55.9	1.209	2.163	11.4	17.6	
9 18	21 52.49	-5 39.5	1.432	2.368	11.4	19.5	9 18	21 58.23	-26 12.7	1.253	2.155	15.5	17.8	
9 28	21 46.71	-6 5.3	1.470	2.337	15.6	19.6	9 28	21 55.55	-26 2.5	1.315	2.148	19.1	18.0	
475323	2005 YK ₁₉₉	8 24.5 135°39' 2°6'/26.6 17						101336	1998 TN ₁	8 24.5 359°80' 3°6'/21.8 18				
7 20	22 41.82	-3 4.9	1.957	2.783	14.6	21.7	7 20	22 38.51	-18 1.9	1.605	2.487	14.5	19.3	
7 30	22 36.10	-2 51.7	1.884	2.791	11.4	21.5	7 30	22 34.13	-18 42.2	1.541	2.486	10.9	19.1	
8 9	22 28.41	-2 51.5	1.834	2.800	7.8	21.3	8 9	22 27.42	-19 26.9	1.499	2.485	7.0	18.9	
8 19	22 19.36	-3 2.9	1.809	2.808	4.2	21.1	8 19	22 19.07	-20 9.2	1.481	2.485	3.9	18.7	
8 29	22 9.81	-3 23.0	1.811	2.815	2.8	21.0	8 29	22 10.11	-20 42.5	1.489	2.485	5.0	18.8	
9 8	22 0.74	-3 47.7	1.842	2.822	5.8	21.2	9 8	22 1.75	-21 1.2	1.522	2.486	8.7	19.0	
9 18	21 53.02	-4 12.9	1.899	2.829	9.4	21.5	9 18	21 55.00	-21 3.0	1.580	2.487	12.5	19.2	
9 28	21 47.34	-4 34.5	1.980	2.835	12.7	21.7	9 28	21 50.65	-20 47.5	1.658	2.488	15.9	19.4	
28177	1998 VO ₅₃	8 24.5 279°81' 7°4'/29.3 18						268483	2005 XS ₇₂	8 24.5 129°46' 2°8'/22.1 18				
7 20	22 39.97	+6 3.2	1.646	2.447	17.9	18.5	7 20	22 40.50	-16 6.4	1.839	2.708	13.6	20.7	
7 30	22 35.43	+6 55.9	1.553	2.431	15.1	18.2	7 30	22 35.28	-16 53.6	1.778	2.716	10.1	20.5	
8 9	22 28.43	+7 28.8	1.479	2.414	11.9	18.0	8 9	22 27.97	-17 46.1	1.739	2.724	6.3	20.3	
8 19	22 19.51	+7 39.1	1.427	2.398	8.9	17.8	8 19	22 19.23	-18 37.9	1.727	2.732	3.1	20.1	
8 29	22 9.59	+7 26.3	1.399	2.381	7.4	17.6	8 29	22 10.00	-19 22.7	1.741	2.739	4.1	20.2	
9 8	21 59.88	+6 53.4	1.396	2.364	8.7	17.7	9 8	22 1.34	-19 55.2	1.783	2.746	7.7	20.4	
9 18	21 51.55	+6 6.5	1.417	2.347	11.9	17.8	9 18	21 54.15	-20 12.8	1.850	2.752	11.2	20.6	
9 28	21 45.60	+5 13.1	1.460	2.331	15.4	18.0	9 28	21 49.13	-20 14.4	1.939	2.759	14.3	20.8	
127468	2002 RC ₈₆	8 24.5 8°71' 2°2'/22.4 18						263547	2008 FQ ₃₅	8 24.5 144°97' 1°1'/23.6 17				
7 20	22 36.49	-16 28.8	2.307	3.173	11.3	19.5	7 20	22 41.28	-11 22.9	1.683	2.546	14.9	21.7	
7 30	22 31.92	-16 56.5	2.237	3.174	8.4	19.3	7 30	22 36.03	-11 57.8	1.618	2.552	11.2	21.5	
8 9	22 25.71	-17 27.8	2.190	3.174	5.3	19.1	8 9	22 28.54	-12 42.6	1.574	2.558	7.0	21.2	
8 19	22 18.37	-17 58.6	2.169	3.175	2.5	19.0	8 19	22 19.46	-13 32.2	1.555	2.564	2.5	21.0	
8 29	22 10.63	-18 24.5	2.177	3.176	3.2	19.0	8 29	22 9.81	-14 20.1	1.564	2.569	2.8	21.0	
9 8	22 3.27	-18 42.0	2.213	3.177	6.3	19.2	9 8	22 0.73	-15 0.3	1.599	2.573	7.2	21.3	
9 18	21 57.02	-18 48.9	2.274	3.178	9.3	19.4	9 18	21 53.23	-15 28.6	1.659	2.578	11.3	21.6	
9 28	21 52.46	-18 44.1	2.359	3.180	12.0	19.6	9 28	21 48.05	-15 42.8	1.742	2.582	14.8	21.8	
480040	2015 BJ ₂₉₈	8 24.5 157°83' 0°7'/23.9 17						444235	2005 UZ ₉₇	8 24.5 254°89' 1°1'/23.4 18				
7 20	22 40.60	-10 31.2	1.862	2.718	14.0	22.1	7 20	22 35.77	-11 57.9	2.351	3.208	11.4	22.2	
7 30	22 35.33	-11 5.1	1.792	2.723	10.5	21.9	7 30	22 31.46	-12 35.8	2.265	3.197	8.6	22.0	
8 9	22 28.01	-11 48.8	1.745	2.728	6.6	21.7	8 9	22 25.49	-13 21.3	2.203	3.187	5.3	21.8	
8 19	22 19.24	-12 37.8	1.724	2.733	2.3	21.4	8 19	22 18.35	-14 10.7	2.168	3.176	2.0	21.5	
8 29	22 9.94	-13 26.3	1.731	2.736	2.4	21.4	8 29	22 10.69	-14 59.1	2.160	3.164	2.4	21.5	
9 8	22 1.13	-14 8.7	1.765	2.740	6.6	21.7	9 8	22 3.29	-15 42.0	2.181	3.153	5.8	21.7	
9 18	21 53.72	-14 40.8	1.825	2.743	10.5	22.0	9 18	21 56.88	-16 15.7	2.229	3.142	9.1	21.9	
9 28	21 48.44	-15 0.2	1.908	2.746	13.8	22.2	9 28	21 52.10	-16 37.9	2.301	3.130	12.0	22.1	
452535	2004 TM ₂₀₁	8 24.5 334°37' 5°0'/28.9 17						10638	McGlothlin	8 24.5 77°48' 0°8'/25.4 18				
7 20	22 33.29	+3 28.4	1.851	2.668	15.6	21.0	7 20	22 34.85	-5 29.4	2.234	3.074	12.5	17.7	
7 30	22 30.00	+3 46.3	1.762	2.655	12.8	20.8	7 30	22 30.65	-6 4.4	2.169	3.089	9.5	17.6	

EPHEMERIDES

8 24.5

8 24.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
193565	2001 <i>AJ</i> ₂₇		8 24.5 98°04	3°4/21.3	18		389489	2010 <i>EV</i> ₁₃₉		8 24.5 72°92	1°3/23.6	17	
7 20	22 42.92	-19 18.5	2.208	3.068	11.9	20.1	7 20	22 39.93	-12 46.6	1.761	2.627	14.2	21.0
7 30	22 36.57	-20 11.7	2.166	3.099	8.9	19.9	7 30	22 34.92	-13 8.9	1.697	2.633	10.7	20.8
8 9	22 28.50	-21 5.9	2.149	3.130	5.7	19.8	8 9	22 27.80	-13 38.8	1.655	2.640	6.6	20.6
8 19	22 19.35	-21 55.3	2.160	3.159	3.5	19.7	8 19	22 19.23	-14 11.6	1.638	2.646	2.4	20.4
8 29	22 9.98	-22 34.9	2.199	3.188	4.4	19.8	8 29	22 10.16	-14 42.1	1.648	2.653	2.8	20.4
9 8	22 1.25	-23 1.0	2.267	3.217	7.2	20.0	9 8	22 1.65	-15 5.4	1.685	2.659	6.9	20.7
9 18	21 53.92	-23 12.4	2.361	3.244	9.9	20.3	9 18	21 54.63	-15 18.1	1.747	2.666	10.8	20.9
9 28	21 48.51	-23 9.2	2.478	3.271	12.4	20.5	9 28	21 49.80	-15 18.7	1.831	2.673	14.1	21.2
315890	2008 <i>KJ</i> ₃₇		8 24.5 62°23	0°7/23.8	18		331850	2003 <i>UH</i> ₂₈₀		8 24.5 219°71	10°3/4.5	18	
7 20	22 33.83	-9 4.7	2.138	2.995	12.4	20.7	7 20	22 38.54	+20 56.8	2.084	2.770	18.0	21.2
7 30	22 30.01	-10 4.0	2.073	3.005	9.3	20.5	7 30	22 33.97	+21 26.3	1.987	2.761	16.1	21.1
8 9	22 24.56	-11 14.0	2.032	3.015	5.7	20.3	8 9	22 27.33	+21 28.4	1.906	2.751	14.1	20.9
8 19	22 17.99	-12 29.6	2.017	3.025	2.0	20.1	8 19	22 19.13	+20 59.5	1.844	2.740	12.0	20.7
8 29	22 11.02	-13 45.0	2.030	3.036	2.2	20.1	8 29	22 10.16	+19 58.4	1.805	2.728	10.6	20.6
9 8	22 4.44	-14 54.2	2.071	3.046	5.8	20.4	9 8	22 1.40	+18 28.0	1.791	2.716	10.4	20.6
9 18	21 58.96	-15 52.5	2.139	3.056	9.2	20.6	9 18	21 53.80	+16 35.2	1.801	2.703	11.6	20.6
9 28	21 55.15	-16 37.0	2.231	3.067	12.1	20.8	9 28	21 48.19	+14 29.6	1.836	2.689	13.6	20.8
478238	2011 <i>UE</i> ₃₄₀		8 24.5 342°25	1°5/23.5	18		506832	2007 <i>TN</i> ₁₅₁		8 24.5 332°20	0°6/24.8	18	
7 20	22 38.49	-13 23.1	1.641	2.514	14.7	21.3	7 20	22 37.35	-10 30.4	0.989	1.887	20.1	20.6
7 30	22 34.09	-13 40.1	1.569	2.509	11.1	21.1	7 30	22 34.65	-10 6.7	0.916	1.868	15.5	20.2
8 9	22 27.41	-14 4.8	1.518	2.504	6.9	20.8	8 9	22 28.56	-9 55.2	0.860	1.850	10.1	19.9
8 19	22 19.09	-14 32.6	1.492	2.500	2.6	20.5	8 19	22 19.76	-9 53.0	0.824	1.833	3.9	19.5
8 29	22 10.14	-14 57.8	1.492	2.497	3.0	20.6	8 29	22 9.64	-9 54.9	0.809	1.817	2.9	19.3
9 8	22 1.69	-15 15.4	1.518	2.494	7.4	20.8	9 8	22 0.04	-9 54.8	0.816	1.803	9.4	19.7
9 18	21 54.77	-15 21.9	1.568	2.491	11.6	21.1	9 18	21 52.70	-9 47.5	0.842	1.791	15.5	19.9
9 28	21 50.17	-15 15.7	1.640	2.489	15.2	21.3	9 28	21 48.87	-9 29.3	0.886	1.780	20.7	20.2
8514	1991 <i>PK</i> ₁₅		8 24.5 353°63	0°8/24.9	18		445005	2008 <i>GA</i> ₁₃₀		8 24.5 179°84	4°1/29.2	18	
7 20	22 34.53	-9 20.2	1.113	2.005	18.7	16.6	7 20	22 35.76	+4 46.6	2.592	3.375	12.6	21.3
7 30	22 31.94	-9 4.4	1.048	1.996	14.4	16.3	7 30	22 31.26	+4 49.6	2.505	3.376	10.3	21.1
8 9	22 26.47	-9 2.2	1.001	1.989	9.3	16.0	8 9	22 25.29	+4 37.5	2.439	3.376	7.8	20.9
8 19	22 18.85	-9 10.4	0.975	1.983	3.6	15.7	8 19	22 18.30	+4 10.7	2.399	3.376	5.3	20.8
8 29	22 10.35	-9 23.9	0.972	1.980	2.5	15.6	8 29	22 10.89	+3 31.3	2.387	3.376	4.1	20.7
9 8	22 2.51	-9 36.4	0.990	1.978	8.3	15.9	9 8	22 3.73	+2 42.9	2.403	3.376	5.2	20.8
9 18	21 56.65	-9 42.5	1.031	1.977	13.6	16.2	9 18	21 57.46	+1 49.6	2.446	3.375	7.6	20.9
9 28	21 53.75	-9 38.4	1.090	1.979	18.1	16.5	9 28	21 52.63	+0 56.3	2.515	3.374	10.2	21.1
325046	2008 <i>CC</i> ₁₃₇		8 24.5 209°60	0°2/24.4	17		392941	2012 <i>WZ</i> ₃		8 24.5 259°33	6°3/18.7	18	
7 20	22 38.46	-7 32.3	1.620	2.479	15.6	21.3	7 20	22 39.73	-25 27.9	1.883	2.761	12.9	20.7
7 30	22 34.13	-8 20.8	1.545	2.476	11.8	21.0	7 30	22 34.94	-26 40.0	1.817	2.754	10.0	20.5
8 9	22 27.50	-9 25.0	1.491	2.473	7.5	20.8	8 9	22 27.93	-27 50.9	1.775	2.748	7.4	20.4
8 19	22 19.17	-10 39.8	1.462	2.470	2.7	20.5	8 19	22 19.32	-28 52.6	1.758	2.741	6.3	20.3
8 29	22 10.13	-11 57.8	1.459	2.466	2.3	20.4	8 29	22 10.07	-29 37.8	1.767	2.735	7.5	20.4
9 8	22 1.52	-13 10.7	1.483	2.462	7.1	20.7	9 8	22 1.32	-30 1.5	1.801	2.728	10.2	20.5
9 18	21 54.40	-14 12.0	1.533	2.458	11.6	21.0	9 18	21 54.05	-30 2.4	1.859	2.721	13.2	20.7
9 28	21 49.61	-14 57.3	1.604	2.453	15.4	21.2	9 28	21 49.05	-29 41.5	1.937	2.714	15.9	20.9
409736	2006 <i>CB</i> ₅₃		8 24.5 154°95	1°4/22.7	18		157783	2124 <i>T</i> ₋₃		8 24.5 292°74	6°2/31.0	18	
7 20	22 33.83	-11 55.8	2.562	3.418	10.6	21.6	7 20	22 33.83	+9 54.3	2.286	3.051	14.6	20.6
7 30	22 29.83	-13 1.7	2.488	3.421	7.9	21.4	7 30	22 30.21	+10 5.1	2.176	3.027	12.4	20.4
8 9	22 24.40	-14 15.2	2.440	3.424	4.8	21.2	8 9	22 24.88	+9 55.9	2.086	3.002	10.0	20.2
8 19	22 17.96	-15 31.9	2.419	3.426	1.9	21.0	8 19	22 18.23	+9 25.5	2.019	2.977	7.6	20.0
8 29	22 11.13	-16 46.3	2.427	3.429	2.6	21.1	8 29	22 10.91	+8 34.7	1.977	2.951	6.3	19.9
9 8	22 4.58	-17 53.5	2.465	3.431	5.6	21.3	9 8	22 3.69	+7 26.9	1.961	2.926	6.9	19.9
9 18	21 58.93	-18 49.6	2.529	3.433	8.5	21.5	9 18	21 57.37	+6 7.8	1.972	2.901	9.2	20.0
9 28	21 54.73	-19 32.2	2.619	3.435	11.1	21.7	9 28	21 52.65	+4 44.1	2.008	2.876	12.0	20.1
475051	2005 <i>UU</i> ₉₇		8 24.5 323°73	0°3/24.8	18		383068	2005 <i>RX</i> ₉		8 24.5 318°11	6°5/28.6	18	
7 20	22 34.53	-7 18.0	1.325	2.202	17.3	21.2	7 20	22 33.76	+2 55.4	1.290	2.134	19.6	19.5
7 30	22 31.69	-7 46.3	1.246	2.187	13.3	20.9	7 30	22 31.39	+3 28.3	1.194	2.104	16.3	19.2
8 9	22 26.25	-8 32.7	1.187	2.172	8.6	20.6	8 9	22 26.29	+3 37.7	1.115	2.074	12.4	18.9
8 19	22 18.80	-9 32.9	1.149	2.157	3.3	20.3	8 19	22 18.93	+3 20.8	1.057	2.045	8.5	18.6
8 29	22 10.40	-10 39.7	1.136	2.144	2.4	20.2	8 29	22 10.28	+2 38.3	1.020	2.017	6.5	18.4
9 8	22 2.40	-11 44.0	1.147	2.131	7.9	20.5	9 8	22 1.71	+1 35.5	1.006	1.989	8.9	18.4
9 18	21 56.06	-12 38.0	1.181	2.119	13.1	20.8	9 18	21 54.68	+0 21.4	1.014	1.963	13.5	18.6
9 28	21 52.37	-13 15.8	1.235	2.108	17.5	21.0	9 28	21 50.43	-0 53.4	1.041	1.937	18.2	18.8
156080	2001 <i>SJ</i> ₁₅₅		8 24.5 309°64	7°6/19.9	18		469016	2015 <i>AK</i> ₂₃₁		8 24.5 259°99	3°9/27.2	18	
7 20	22 44.23	-26 32.6	1.393	2.279	16.1	19.9	7 20	22 40.47	-0 37.2	1.601	2.433	17.0	21.5
7 30	22 39.30	-27 16.2	1.314	2.255	12.7	19.6	7 30	22 35.86	-0 25.4	1.509	2.417	13.6	21.2
8 9	22 31.19	-27 56.7	1.255	2.231	9.4	19.4	8 9	22 28.76	-0 31.9	1.437	2.401	9.7	20.9
8 19	22 20.62	-28 24.3	1.219	2.208	7.6	19.2	8 19	22 19.73	-0 56.3	1.389	2.385	5.7	20.7
8 29	22 8.94	-28 29.8	1.207	2.185	9.0	19.2	8 29	22 9.72	-1 35.8	1.366	2.368	4.0	20.5
9 8	21 57.82	-28 7.7	1.219	2.162	12.5	19.3	9 8	21 59.97	-2 24.6	1.368	2.351	7.2	20.7
9 18	21 48.78	-27 17.9	1.252	2.140	16.5	19.5	9 18	21 51.66	-3 16.2	1.396	2.333	11.6	20.9
9 28	21 42.94	-26 4.0	1.304	2.119	20.2	19.7	9 28	21 45.79	-4 3.6	1.446	2.315	15.7	21.1
507661	2013 <i>QF</i> ₉₂		8 24.5 352°48	4°8/27.6	17		281701	2008 <i>WO</i> ₇₆		8 24.5 5°18	6°2/19.9		

EPHEMERIDES

8 24.5

8 24.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
404422	2013 GG ₈₆		8 24.5 23°58'	3°1'/21.0	18		514293	2015 TO ₂₆		8 24.6 78°85'	2°9'/21.9	18	
7 20	22 34.30	-16 49.3	2.187	3.060	11.6	20.6	7 20	22 39.38	-18 40.4	2.199	3.065	11.8	21.3
7 30	22 30.46	-18 0.9	2.120	3.061	8.6	20.4	7 30	22 34.19	-19 7.5	2.132	3.068	8.8	21.1
8 9	22 24.93	-19 17.8	2.078	3.063	5.5	20.3	8 9	22 27.22	-19 36.4	2.089	3.072	5.6	20.9
8 19	22 18.20	-20 34.1	2.062	3.064	3.2	20.1	8 19	22 19.04	-20 2.7	2.072	3.075	3.1	20.7
8 29	22 11.02	-21 43.3	2.074	3.066	4.3	20.2	8 29	22 10.44	-20 21.9	2.083	3.078	3.9	20.8
9 8	22 4.19	-22 40.0	2.113	3.068	7.3	20.4	9 8	22 2.31	-20 30.6	2.122	3.081	6.9	21.0
9 18	21 58.46	-23 20.8	2.178	3.069	10.3	20.6	9 18	21 55.42	-20 27.0	2.186	3.084	10.0	21.2
9 28	21 54.45	-23 44.4	2.266	3.071	13.0	20.8	9 28	21 50.38	-20 11.0	2.274	3.088	12.7	21.4
225243	2009 QU ₂₂		8 24.5 230°52'	0°7'/23.8	18		219316	2000 EH ₁₉₄		8 24.6 241°83'	0°3'/24.9	18	
7 20	22 37.75	-12 15.3	2.413	3.266	11.3	20.3	7 20	22 34.12	- 7 11.3	2.602	3.443	10.9	20.5
7 30	22 32.84	-12 29.6	2.334	3.263	8.5	20.1	7 30	22 30.08	- 7 44.1	2.515	3.436	8.3	20.4
8 9	22 26.33	-12 49.7	2.278	3.260	5.3	19.9	8 9	22 24.60	- 8 26.7	2.451	3.428	5.3	20.2
8 19	22 18.70	-13 12.6	2.249	3.257	1.9	19.7	8 19	22 18.10	- 9 16.1	2.413	3.420	2.0	19.9
8 29	22 10.63	-13 34.6	2.248	3.254	2.0	19.7	8 29	22 11.17	-10 8.5	2.405	3.412	1.4	19.9
9 8	22 2.89	-13 52.2	2.276	3.250	5.4	19.9	9 8	22 4.46	-10 59.6	2.426	3.404	4.8	20.1
9 18	21 56.19	-14 3.0	2.331	3.247	8.6	20.1	9 18	21 58.62	-11 45.4	2.474	3.396	7.9	20.3
9 28	21 51.11	-14 5.1	2.411	3.244	11.4	20.3	9 28	21 54.18	-12 22.9	2.547	3.388	10.6	20.5
511385	2014 GS ₂₉		8 24.5 45°58'	1°9'/22.9	18		517857	2015 RT ₂₂₄		8 24.6 299°62'	4°4'/20.4	18	
7 20	22 37.78	-14 0.2	1.792	2.663	13.8	21.5	7 20	22 38.20	-22 33.7	2.182	3.054	11.6	21.5
7 30	22 33.26	-14 33.6	1.733	2.673	10.3	21.3	7 30	22 33.46	-23 18.6	2.111	3.048	8.8	21.3
8 9	22 26.74	-15 13.7	1.697	2.683	6.3	21.1	8 9	22 26.85	-24 3.5	2.063	3.041	6.1	21.2
8 19	22 18.85	-15 55.4	1.685	2.693	2.6	20.9	8 19	22 18.94	-24 42.9	2.041	3.035	4.4	21.0
8 29	22 10.53	-16 32.9	1.701	2.703	3.2	20.9	8 29	22 10.53	-25 11.4	2.047	3.029	5.4	21.1
9 8	22 2.76	-17 1.3	1.743	2.714	7.0	21.2	9 8	22 2.52	-25 25.2	2.079	3.022	8.1	21.3
9 18	21 56.42	-17 17.5	1.810	2.725	10.7	21.4	9 18	21 55.75	-25 22.6	2.137	3.016	11.0	21.4
9 28	21 52.18	-17 20.0	1.899	2.736	13.9	21.7	9 28	21 50.86	-25 3.9	2.216	3.010	13.6	21.6
71463	2000 BQ ₄		8 24.5 306°29'	4°8'/21.1	18		3064	Zimmer		8 24.6 164°46'	0°2'/24.7	18 R	
7 20	22 41.69	-21 52.6	1.700	2.578	14.0	19.1	7 20	22 39.28	- 7 29.6	1.883	2.732	14.2	17.9
7 30	22 36.58	-22 27.7	1.628	2.569	10.7	18.9	7 30	22 34.40	- 8 6.2	1.810	2.736	10.8	17.7
8 9	22 29.04	-23 3.2	1.578	2.559	7.3	18.7	8 9	22 27.51	- 8 55.5	1.760	2.739	6.8	17.4
8 19	22 19.75	-23 32.5	1.553	2.550	4.9	18.5	8 19	22 19.20	- 9 53.3	1.735	2.743	2.5	17.2
8 29	22 9.78	-23 49.0	1.553	2.541	6.0	18.6	8 29	22 10.33	-10 53.8	1.738	2.745	1.9	17.1
9 8	22 0.35	-23 48.2	1.580	2.533	9.4	18.7	9 8	22 1.90	-11 50.8	1.768	2.747	6.2	17.4
9 18	21 52.57	-23 29.0	1.630	2.524	13.0	18.9	9 18	21 54.80	-12 39.2	1.825	2.749	10.1	17.7
9 28	21 47.25	-22 52.1	1.701	2.516	16.2	19.1	9 28	21 49.74	-13 15.4	1.906	2.750	13.5	17.9
316266	2010 PE ₂₂		8 24.5 74°99'	3°2'/27.7	18		510212	2011 DG ₁₃		8 24.6 241°42'	1°2'/25.5	17	
7 20	22 36.24	+ 0 13.2	2.206	3.021	13.5	20.6	7 20	22 40.21	- 5 55.2	1.789	2.634	14.9	22.5
7 30	22 31.80	+ 0 18.1	2.130	3.027	10.7	20.4	7 30	22 35.37	- 6 10.5	1.701	2.623	11.6	22.3
8 9	22 25.71	+ 0 8.8	2.076	3.033	7.6	20.2	8 9	22 28.31	- 6 39.7	1.634	2.610	7.6	22.0
8 19	22 18.48	- 0 13.8	2.048	3.040	4.6	20.1	8 19	22 19.56	- 7 20.2	1.592	2.598	3.3	21.7
8 29	22 10.81	- 0 46.9	2.046	3.046	3.3	20.0	8 29	22 10.03	- 8 7.0	1.577	2.584	2.0	21.6
9 8	22 3.50	- 1 26.3	2.072	3.052	5.3	20.1	9 8	22 0.81	- 8 54.5	1.589	2.571	6.4	21.8
9 18	21 57.27	- 2 7.7	2.125	3.058	8.4	20.3	9 18	21 52.92	- 9 36.9	1.627	2.557	10.7	22.1
9 28	21 52.72	- 2 46.6	2.202	3.064	11.3	20.5	9 28	21 47.23	-10 9.8	1.688	2.542	14.5	22.3
397433	2007 CG ₇₉		8 24.5 113°25'	5°8'/18.1	18		58521	1997 AC ₈		8 24.6 297°10'	2°9'/27.0	18	
7 20	22 41.12	-30 26.2	2.626	3.485	10.3	20.9	7 20	22 37.32	- 1 55.9	2.075	2.901	13.8	18.9
7 30	22 35.23	-31 20.0	2.581	3.501	8.2	20.8	7 30	22 32.83	- 1 43.8	1.988	2.894	11.0	18.7
8 9	22 27.71	-32 8.0	2.561	3.517	6.5	20.7	8 9	22 26.51	- 1 44.8	1.923	2.887	7.7	18.5
8 19	22 19.16	-32 44.7	2.568	3.532	5.8	20.7	8 19	22 18.86	- 1 58.2	1.883	2.879	4.4	18.3
8 29	22 10.32	-33 6.0	2.602	3.547	6.7	20.7	8 29	22 10.62	- 2 21.3	1.870	2.872	3.0	18.2
9 8	22 2.02	-33 9.7	2.662	3.562	8.5	20.9	9 8	22 2.68	- 2 50.4	1.884	2.865	5.6	18.3
9 18	21 54.95	-32 55.9	2.748	3.576	10.4	21.0	9 18	21 55.86	- 3 21.1	1.925	2.858	9.1	18.5
9 28	21 49.65	-32 26.2	2.855	3.590	12.2	21.2	9 28	21 50.85	- 3 49.1	1.989	2.851	12.3	18.7
394972	2008 YD ₁₇₃		8 24.5 198°02'	1°9'/26.3	18		278341	2007 JH		8 24.6 288°28'	4°5'/28.9	18	
7 20	22 37.56	- 3 34.5	2.065	2.898	13.7	21.7	7 20	22 34.01	+ 5 2.6	1.701	2.515	16.9	20.6
7 30	22 32.96	- 3 46.0	1.984	2.897	10.6	21.5	7 30	22 30.79	+ 4 33.2	1.611	2.503	13.9	20.3
8 9	22 26.54	- 4 11.0	1.925	2.895	7.2	21.3	8 9	22 25.47	+ 3 37.9	1.540	2.492	10.3	20.1
8 19	22 18.81	- 4 47.3	1.892	2.894	3.5	21.0	8 19	22 18.54	+ 2 17.5	1.492	2.480	6.6	19.8
8 29	22 10.55	- 5 31.0	1.886	2.892	2.2	20.9	8 29	22 10.85	+ 0 36.8	1.469	2.468	4.5	19.7
9 8	22 2.63	- 6 17.3	1.907	2.889	5.5	21.2	9 8	22 3.44	- 1 16.1	1.473	2.456	6.6	19.8
9 18	21 55.86	- 7 1.3	1.956	2.887	9.1	21.4	9 18	21 57.29	- 3 11.3	1.503	2.445	10.5	20.0
9 28	21 50.92	- 7 38.7	2.028	2.884	12.4	21.6	9 28	21 53.24	- 4 59.1	1.557	2.433	14.3	20.2
145436	2005 QF ₉₀		8 24.5 274°24'	0°9'/25.3	18		164730	1998 RA ₅₅		8 24.6 2°37'	8°3'/1.1	18	
7 20	22 37.44	- 7 7.9	2.092	2.937	13.1	20.4	7 20	22 27.52	+10 7.2	1.212	2.038	21.7	18.9
7 30	22 32.89	- 7 16.3	2.007	2.929	10.0	20.2	7 30	22 26.42	+10 17.1	1.146	2.036	18.4	18.7
8 9	22 26.52	- 7 35.3	1.944	2.921	6.5	20.0	8 9	22 22.92	+ 9 51.8	1.096	2.035	14.7	18.5
8 19	22 18.81	- 8 2.3	1.906	2.912	2.7	19.7	8 19	22 17.63	+ 8 49.5	1.063	2.036	10.9	18.3
8 29	22 10.54	- 8 33.5	1.896	2.904	1.7	19.6	8 29	22 11.60	+ 7 13.8	1.052	2.039	8.4	18.1
9 8	22 2.58	- 9 4.7	1.914	2.895	5.6	19.9	9 8	22 6.08	+ 5 14.5	1.063	2.043	9.1	18.2
9 18	21 55.74	- 9 31.8	1.959	2.887	9.3	20.1	9 18	22 2.19	+ 3 4.8	1.096	2.049	12.2	18.4
9 28	21 50.73	- 9 51.6	2.027	2.879	12.6	20.3	9 28	22 0.80	+ 0 58.7	1.151	2.057	16.0	18.6
511588	2015 AY ₉		8 24.6 196°97'	4°0'/21.6	17		28542	Cespedes-Nano		8 24.6 31°31'	0°3'/24.8	18	
7 20	22 43.47	-18 42.6	1.635	2.509	14.7</								

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
435274	2007 <i>TS</i> ₂₈₁		8 24.6 356°03	9°8/17.1	18		20417	1998 <i>SA</i> ₇		8 24.6 93°13	1°1/23.7	18	
7 20	22 39.23	-31 15.0	1.386	2.278	15.8	19.4	7 20	22 42.03	-12 30.7	1.917	2.774	13.6	18.4
7 30	22 35.31	-32 34.9	1.336	2.274	12.9	19.2	7 30	22 36.26	-12 51.0	1.862	2.793	10.2	18.2
8 9	22 28.49	-33 46.5	1.307	2.270	10.6	19.0	8 9	22 28.55	-13 18.1	1.829	2.812	6.3	18.0
8 19	22 19.63	-34 38.8	1.300	2.268	9.9	19.0	8 19	22 19.58	-13 47.6	1.822	2.830	2.3	17.8
8 29	22 10.08	-35 2.8	1.316	2.267	11.3	19.1	8 29	22 10.26	-14 14.8	1.844	2.849	2.5	17.9
9 8	22 1.36	-34 54.4	1.354	2.267	14.0	19.2	9 8	22 1.57	-14 35.5	1.893	2.867	6.3	18.2
9 18	21 54.75	-34 14.8	1.411	2.267	16.9	19.4	9 18	21 54.33	-14 46.9	1.968	2.884	9.9	18.4
9 28	21 51.10	-33 8.6	1.486	2.269	19.6	19.6	9 28	21 49.16	-14 47.6	2.067	2.902	13.0	18.7
388760	2007 <i>XC</i> ₂₉		8 24.6 351°51	13°9/11.2	18		131222	2001 <i>DW</i> ₈₂		8 24.6 197°57	0°6/25.2	18	
7 20	22 21.95	-31 34.2	0.895	1.829	18.1	18.2	7 20	22 36.30	- 5 26.2	2.013	2.857	13.6	20.7
7 30	22 23.36	-34 6.5	0.849	1.809	15.4	18.0	7 30	22 32.11	- 6 11.1	1.934	2.856	10.4	20.5
8 9	22 21.57	-36 31.1	0.822	1.792	14.0	17.8	8 9	22 26.09	- 7 10.3	1.877	2.854	6.7	20.2
8 19	22 17.28	-38 29.2	0.813	1.778	14.6	17.8	8 19	22 18.75	- 8 20.0	1.846	2.852	2.7	20.0
8 29	22 11.93	-39 44.1	0.822	1.767	16.9	17.9	8 29	22 10.86	- 9 34.5	1.842	2.850	1.7	19.9
9 8	22 7.37	-40 7.2	0.846	1.759	20.1	18.1	9 8	22 3.30	-10 47.3	1.867	2.848	5.8	20.2
9 18	22 5.13	-39 38.5	0.886	1.755	23.3	18.3	9 18	21 56.90	-11 52.6	1.918	2.845	9.6	20.4
9 28	22 6.24	-38 23.9	0.938	1.754	26.2	18.5	9 28	21 52.33	-12 46.0	1.994	2.842	12.9	20.6
86886	2000 <i>HR</i> ₂₉		8 24.6 40°24	4°5/27.9	18		520273	2014 <i>EW</i> ₁₆₇		8 24.6 24°69	1°1/25.4	18	
7 20	22 37.09	+ 1 17.2	1.383	2.224	18.7	18.7	7 20	22 37.87	- 7 5.7	1.553	2.414	16.0	20.4
7 30	22 33.28	+ 1 22.4	1.322	2.233	15.0	18.5	7 30	22 33.65	- 7 7.1	1.490	2.420	12.3	20.2
8 9	22 27.05	+ 1 4.6	1.279	2.242	10.7	18.3	8 9	22 27.19	- 7 21.6	1.447	2.427	8.0	20.0
8 19	22 19.10	+ 0 25.1	1.258	2.252	6.5	18.1	8 19	22 19.16	- 7 46.2	1.428	2.435	3.3	19.7
8 29	22 10.53	- 0 31.4	1.261	2.262	4.5	18.0	8 29	22 10.58	- 8 16.1	1.435	2.443	2.1	19.7
9 8	22 2.58	- 1 37.2	1.289	2.273	7.2	18.2	9 8	22 2.59	- 8 45.7	1.467	2.451	6.6	20.0
9 18	21 56.32	- 2 44.0	1.341	2.284	11.3	18.4	9 18	21 56.16	- 9 10.3	1.524	2.460	10.9	20.3
9 28	21 52.56	- 3 44.1	1.414	2.296	15.2	18.7	9 28	21 52.05	- 9 26.0	1.604	2.470	14.5	20.5
505111	2012 <i>DR</i> ₃₈		8 24.6 112°77	0°7/23.9	17		207039	2004 <i>XW</i> ₈		8 24.6 299°00	11°1/ 1.3	18	
7 20	22 40.46	- 8 47.2	1.610	2.470	15.6	21.8	7 20	22 42.25	+15 14.2	1.829	2.562	18.7	19.5
7 30	22 35.48	- 9 43.4	1.553	2.485	11.7	21.5	7 30	22 37.05	+16 53.0	1.745	2.556	16.6	19.3
8 9	22 28.26	-10 53.1	1.517	2.500	7.3	21.3	8 9	22 29.49	+18 10.1	1.678	2.551	14.3	19.2
8 19	22 19.50	-12 10.0	1.506	2.515	2.5	21.1	8 19	22 20.09	+19 0.2	1.632	2.545	12.3	19.0
8 29	22 10.23	-13 26.2	1.523	2.529	2.6	21.1	8 29	22 9.76	+19 20.1	1.609	2.539	11.2	18.9
9 8	22 1.60	-14 34.2	1.566	2.542	7.1	21.4	9 8	21 59.65	+19 10.5	1.610	2.534	11.4	19.0
9 18	21 54.58	-15 28.3	1.635	2.555	11.3	21.7	9 18	21 50.89	+18 35.9	1.634	2.528	12.9	19.0
9 28	21 49.89	-16 5.6	1.725	2.568	14.8	22.0	9 28	21 44.40	+17 43.9	1.679	2.523	15.1	19.2
221493	2006 <i>CC</i> ₄₁		8 24.6 199°05	1°5/26.4	18		478985	2012 <i>XY</i> ₁₁₉		8 24.6 248°10	2°2/22.6	18	R
7 20	22 34.73	- 3 24.9	2.779	3.601	10.8	20.8	7 20	22 39.00	-15 21.8	2.117	2.981	12.3	22.0
7 30	22 30.43	- 3 42.5	2.692	3.598	8.4	20.6	7 30	22 34.15	-15 57.8	2.035	2.970	9.2	21.8
8 9	22 24.79	- 4 10.5	2.628	3.595	5.7	20.4	8 9	22 27.39	-16 39.5	1.975	2.959	5.8	21.6
8 19	22 18.21	- 4 47.1	2.592	3.593	2.8	20.2	8 19	22 19.24	-17 22.1	1.942	2.948	2.6	21.4
8 29	22 11.24	- 5 29.4	2.584	3.589	1.7	20.2	8 29	22 10.50	-18 0.4	1.937	2.937	3.4	21.4
9 8	22 4.50	- 6 13.7	2.605	3.586	4.3	20.3	9 8	22 2.08	-18 29.6	1.959	2.925	6.9	21.6
9 18	21 58.58	- 6 56.3	2.654	3.582	7.2	20.5	9 18	21 54.85	-18 46.7	2.008	2.913	10.3	21.8
9 28	21 53.98	- 7 34.0	2.729	3.578	9.8	20.7	9 28	21 49.50	-18 50.2	2.079	2.901	13.4	22.0
254194	2004 <i>RM</i> ₄₄		8 24.6 47°71	2°3/26.4	18		453191	2008 <i>FM</i> ₂₃		8 24.6 34°39	8°3/17.5	18	
7 20	22 38.95	- 4 19.5	1.931	2.768	14.3	19.8	7 20	22 42.09	-33 3.3	1.876	2.747	13.3	20.2
7 30	22 33.99	- 4 4.5	1.866	2.780	11.1	19.7	7 30	22 36.66	-34 4.1	1.833	2.755	10.8	20.1
8 9	22 27.17	- 4 1.8	1.823	2.793	7.5	19.5	8 9	22 28.96	-34 55.4	1.812	2.764	8.9	20.0
8 19	22 19.08	- 4 9.5	1.805	2.805	3.8	19.3	8 19	22 19.76	-35 29.6	1.815	2.772	8.4	20.0
8 29	22 10.57	- 4 24.8	1.813	2.818	2.5	19.2	8 29	22 10.17	-35 40.9	1.842	2.782	9.4	20.1
9 8	22 2.57	- 4 43.8	1.849	2.832	5.6	19.4	9 8	22 1.35	-35 27.0	1.894	2.791	11.4	20.2
9 18	21 55.88	- 5 2.5	1.912	2.845	9.2	19.7	9 18	21 54.27	-34 49.3	1.968	2.801	13.7	20.4
9 28	21 51.13	- 5 17.5	1.998	2.859	12.3	19.9	9 28	21 49.60	-33 51.2	2.062	2.811	15.9	20.6
108717	2001 <i>OJ</i> ₂₃		8 24.6 41°99	6°1/20.6	18		337155	1999 <i>TK</i> ₃₁₆		8 24.6 247°50	1°9/26.3	18	
7 20	22 41.84	-22 10.8	1.308	2.199	16.5	18.8	7 20	22 37.48	- 3 19.7	2.059	2.891	13.7	21.6
7 30	22 37.07	-23 8.6	1.261	2.208	12.6	18.6	7 30	22 33.05	- 3 36.2	1.967	2.879	10.7	21.3
8 9	22 29.48	-24 6.6	1.235	2.218	8.6	18.4	8 9	22 26.74	- 4 7.0	1.897	2.867	7.3	21.1
8 19	22 19.99	-24 55.2	1.232	2.228	6.1	18.3	8 19	22 19.03	- 4 50.1	1.852	2.854	3.6	20.9
8 29	22 9.93	-25 25.8	1.253	2.239	7.5	18.4	8 29	22 10.66	- 5 41.4	1.835	2.841	2.2	20.7
9 8	22 0.81	-25 33.4	1.298	2.250	11.0	18.6	9 8	22 2.54	- 6 35.8	1.846	2.828	5.6	20.9
9 18	21 53.82	-25 17.5	1.365	2.262	14.8	18.9	9 18	21 55.53	- 7 27.8	1.883	2.814	9.4	21.1
9 28	21 49.73	-24 40.2	1.450	2.273	18.1	19.1	9 28	21 50.35	- 8 12.8	1.944	2.800	12.8	21.3
252809	2002 <i>GF</i> ₁₆		8 24.6 49°84	5°2/20.1	18		510021	2010 <i>AV</i> ₅₀		8 24.6 142°88	0°4/24.2	18	
7 20	22 40.75	-25 4.8	2.016	2.888	12.4	19.9	7 20	22 37.54	- 7 46.5	2.177	3.022	12.6	22.2
7 30	22 35.38	-25 45.3	1.963	2.898	9.5	19.7	7 30	22 32.84	- 8 49.7	2.108	3.033	9.5	22.1
8 9	22 28.03	-26 22.8	1.933	2.907	6.8	19.6	8 9	22 26.44	-10 4.6	2.063	3.043	5.9	21.9
8 19	22 19.40	-26 51.4	1.929	2.917	5.3	19.5	8 19	22 18.87	-11 26.3	2.044	3.052	2.1	21.6
8 29	22 10.39	-27 6.0	1.952	2.928	6.2	19.6	8 29	22 10.84	-12 48.8	2.055	3.061	2.0	21.6
9 8	22 2.01	-27 3.6	2.001	2.938	8.7	19.7	9 8	22 3.21	-14 5.7	2.094	3.069	5.7	21.9
9 18	21 55.10	-26 43.9	2.074	2.948	11.5	19.9	9 18	21 56.70	-15 11.9	2.161	3.077	9.2	22.1
9 28	21 50.27	-26 8.2	2.169	2.959	14.0	20.1	9 28	21 51.93	-16 4.3	2.253	3.084	12.2	22.3
384485	2010 <i>CA</i> ₅₇		8 24.6 147°53	1°8/23.1	16		516178	2016 <i>PU</i> ₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
46520	1979 <i>MJ</i> ₃		8 24.6 258°42	1°2/25.7	18		510886	2013 <i>CC</i> ₁₄₄		8 24.6 56°23	2°7/26.7	18	
7 20	22 35.99	- 4 40.9	1.921	2.765	14.1	19.2	7 20	22 42.21	- 3 41.1	1.964	2.792	14.5	20.6
7 30	22 31.98	- 5 11.5	1.841	2.762	10.9	19.0	7 30	22 36.31	- 3 11.3	1.907	2.814	11.3	20.4
8 9	22 26.07	- 5 56.9	1.783	2.758	7.1	18.8	8 9	22 28.58	- 2 53.4	1.872	2.837	7.7	20.3
8 19	22 18.78	- 6 53.9	1.750	2.755	3.1	18.5	8 19	22 19.64	- 2 46.3	1.862	2.860	4.2	20.1
8 29	22 10.91	- 7 57.3	1.744	2.751	1.9	18.4	8 29	22 10.38	- 2 47.8	1.881	2.884	2.9	20.1
9 8	22 3.38	- 9 0.9	1.766	2.748	5.8	18.7	9 8	22 1.71	- 2 54.6	1.927	2.907	5.6	20.3
9 18	21 57.05	- 9 58.9	1.813	2.744	9.7	18.9	9 18	21 54.45	- 3 3.3	1.999	2.930	9.0	20.5
9 28	21 52.63	- 10 46.7	1.884	2.741	13.1	19.1	9 28	21 49.17	- 3 10.5	2.096	2.954	12.0	20.8
209858	2005 <i>JG</i> ₃₀		8 24.6 318°96	2°9/27.3	18		489398	2006 <i>VE</i> ₂		8 24.6 195°09	18°3/8.9	18	
7 20	22 34.44	- 0 12.5	1.757	2.592	15.6	19.6	7 20	22 43.71	+ 27 57.6	1.339	2.016	26.7	21.6
7 30	22 31.01	- 0 33.9	1.675	2.585	12.4	19.4	7 30	22 39.22	+ 29 44.2	1.267	2.015	24.8	21.4
8 9	22 25.56	- 1 15.0	1.613	2.579	8.7	19.2	8 9	22 31.44	+ 30 53.0	1.206	2.013	22.7	21.2
8 19	22 18.62	- 2 13.5	1.574	2.572	4.8	18.9	8 19	22 21.00	+ 31 13.6	1.158	2.010	20.7	21.1
8 29	22 11.02	- 3 24.9	1.562	2.566	3.0	18.8	8 29	22 9.15	+ 30 38.6	1.127	2.006	19.0	20.9
9 8	22 3.76	- 4 42.0	1.576	2.560	6.1	19.0	9 8	21 57.63	+ 29 8.4	1.112	2.001	18.3	20.9
9 18	21 57.75	- 5 57.5	1.616	2.555	10.1	19.2	9 18	21 48.14	+ 26 51.4	1.117	1.995	18.8	20.9
9 28	21 53.76	- 7 4.9	1.679	2.549	13.8	19.4	9 28	21 41.98	+ 24 3.2	1.140	1.989	20.4	21.0
200401	2000 <i>SF</i> ₂₅		8 24.6 317°85	2°3/25.7	18		483296	2015 <i>UJ</i> ₉		8 24.6 311°25	0°7/23.9	17	
7 20	22 42.39	- 7 32.5	1.431	2.291	17.2	19.3	7 20	22 35.16	- 10 38.2	2.087	2.947	12.5	21.6
7 30	22 37.66	- 6 48.7	1.342	2.271	13.5	19.0	7 30	22 31.26	- 11 12.2	2.006	2.939	9.4	21.4
8 9	22 30.13	- 6 14.4	1.273	2.251	9.1	18.7	8 9	22 25.59	- 11 55.6	1.947	2.930	5.9	21.1
8 19	22 20.40	- 5 49.0	1.227	2.231	4.3	18.4	8 19	22 18.63	- 12 44.4	1.914	2.922	2.1	20.9
8 29	22 9.58	- 5 30.7	1.206	2.212	2.9	18.2	8 29	22 11.12	- 13 33.5	1.909	2.915	2.2	20.9
9 8	21 59.08	- 5 16.2	1.210	2.194	7.6	18.5	9 8	22 3.92	- 14 17.8	1.931	2.907	6.0	21.1
9 18	21 50.26	- 5 2.6	1.239	2.177	12.6	18.7	9 18	21 57.82	- 14 53.1	1.979	2.899	9.7	21.3
9 28	21 44.21	- 4 46.3	1.288	2.160	17.0	18.9	9 28	21 53.50	- 15 16.6	2.050	2.892	12.8	21.5
278946	2008 <i>UJ</i> ₆₀		8 24.6 18°86	11°4/3.7	16		95200	2002 <i>BF</i> ₁₉		8 24.6 114°89	4°8/20.4	18	
7 20	22 32.55	+ 14 44.0	1.235	2.027	23.2	19.7	7 20	22 41.24	- 21 17.0	1.854	2.727	13.3	19.5
7 30	22 30.20	+ 15 43.5	1.179	2.036	20.3	19.5	7 30	22 35.94	- 22 23.3	1.801	2.739	10.0	19.3
8 9	22 25.31	+ 16 7.5	1.138	2.046	17.0	19.3	8 9	22 28.53	- 23 30.6	1.771	2.751	6.8	19.1
8 19	22 18.57	+ 15 52.1	1.114	2.057	13.9	19.2	8 19	22 19.67	- 24 31.5	1.767	2.762	4.8	19.1
8 29	22 11.11	+ 14 57.6	1.109	2.070	11.8	19.1	8 29	22 10.37	- 25 19.2	1.791	2.773	6.0	19.2
9 8	22 4.28	+ 13 31.0	1.125	2.084	11.7	19.2	9 8	22 1.67	- 25 48.9	1.840	2.784	8.9	19.4
9 18	21 59.22	+ 11 43.3	1.163	2.099	13.4	19.3	9 18	21 54.51	- 25 58.9	1.914	2.795	12.0	19.6
9 28	21 56.80	+ 9 48.1	1.221	2.115	16.2	19.5	9 28	21 49.57	- 25 49.9	2.010	2.805	14.8	19.8
450516	2006 <i>AB</i> ₁₀₁		8 24.6 299°76	1°2/25.6	17		167814	2005 <i>CF</i> ₅		8 24.6 224°42	0°3/24.4	18	
7 20	22 36.91	- 6 33.2	2.110	2.954	13.0	21.5	7 20	22 37.29	- 8 58.6	1.881	2.738	13.8	20.4
7 30	22 32.65	- 6 35.2	2.012	2.933	10.1	21.3	7 30	22 33.00	- 9 33.5	1.806	2.736	10.5	20.1
8 9	22 26.52	- 6 47.8	1.936	2.912	6.7	21.1	8 9	22 26.74	- 10 19.8	1.753	2.735	6.6	19.9
8 19	22 18.98	- 7 9.1	1.885	2.890	2.9	20.8	8 19	22 19.06	- 11 13.4	1.726	2.734	2.4	19.6
8 29	22 10.76	- 7 35.8	1.862	2.869	1.8	20.7	8 29	22 10.82	- 12 8.7	1.726	2.733	2.1	19.6
9 8	22 2.74	- 8 3.7	1.867	2.848	5.6	20.9	9 8	22 2.97	- 12 59.5	1.753	2.731	6.3	19.9
9 18	21 55.77	- 8 28.9	1.897	2.828	9.4	21.1	9 18	21 56.39	- 13 41.3	1.806	2.730	10.2	20.1
9 28	21 50.59	- 8 47.7	1.952	2.807	12.8	21.2	9 28	21 51.81	- 14 10.5	1.882	2.728	13.6	20.3
40345	1999 <i>NT</i> ₉		8 24.6 13°19	1°2/23.7	18		449323	2013 <i>FJ</i> ₁₂		8 24.6 301°11	6°1/18.8	18	
7 20	22 31.46	- 8 22.5	0.976	1.878	19.9	18.2	7 20	22 39.16	- 26 25.0	2.015	2.891	12.3	20.5
7 30	22 29.84	- 9 26.8	0.927	1.882	15.0	17.9	7 30	22 34.46	- 27 25.7	1.947	2.882	9.6	20.3
8 9	22 25.28	- 10 53.1	0.895	1.886	9.3	17.7	8 9	22 27.68	- 28 24.1	1.903	2.874	7.2	20.1
8 19	22 18.59	- 12 32.2	0.883	1.893	3.2	17.3	8 19	22 19.41	- 29 13.2	1.884	2.865	6.1	20.0
8 29	22 11.13	- 14 11.2	0.894	1.901	3.6	17.4	8 29	22 10.56	- 29 46.6	1.891	2.857	7.3	20.1
9 8	22 4.46	- 15 37.1	0.927	1.910	9.5	17.8	9 8	22 2.16	- 29 59.9	1.923	2.849	9.8	20.2
9 18	21 59.90	- 16 41.0	0.980	1.920	14.8	18.1	9 18	21 55.14	- 29 52.2	1.980	2.841	12.5	20.4
9 28	21 58.34	- 17 18.4	1.051	1.932	19.3	18.4	9 28	21 50.24	- 29 24.5	2.057	2.833	15.1	20.6
13456	6640 <i>P-L</i>		8 24.6 281°78	1°3/23.4	18		299845	2006 <i>SX</i> ₂₂₁		8 24.6 243°02	0°5/25.1	18	
7 20	22 37.04	- 13 9.5	2.275	3.134	11.7	18.9	7 20	22 36.62	- 6 59.2	2.059	2.906	13.2	21.1
7 30	22 32.57	- 13 34.8	2.186	3.119	8.8	18.7	7 30	22 32.35	- 7 25.4	1.978	2.902	10.1	20.8
8 9	22 26.36	- 14 6.5	2.121	3.105	5.5	18.4	8 9	22 26.27	- 8 3.4	1.920	2.899	6.5	20.6
8 19	22 18.89	- 14 41.0	2.083	3.091	2.1	18.2	8 19	22 18.89	- 8 49.9	1.888	2.895	2.6	20.4
8 29	22 10.86	- 15 13.9	2.072	3.076	2.5	18.2	8 29	22 10.97	- 9 40.3	1.883	2.891	1.7	20.3
9 8	22 3.10	- 15 41.0	2.090	3.062	6.0	18.4	9 8	22 3.38	- 10 29.2	1.906	2.887	5.6	20.6
9 18	21 56.38	- 15 59.0	2.134	3.047	9.4	18.6	9 18	21 56.93	- 11 12.1	1.956	2.883	9.4	20.8
9 28	21 51.36	- 16 6.1	2.201	3.033	12.4	18.8	9 28	21 52.29	- 11 45.2	2.029	2.879	12.6	21.0
93292	2000 <i>SD</i> ₁₉₈		8 24.6 9°48	1°4/23.6	18		20834	Allihowlett		8 24.6 196°89	3°5/21.7	18	
7 20	22 39.10	- 12 8.3	1.537	2.410	15.5	19.5	7 20	22 42.99	- 17 20.3	1.804	2.672	13.9	18.8
7 30	22 34.72	- 12 36.4	1.470	2.410	11.7	19.3	7 30	22 37.47	- 18 17.0	1.732	2.669	10.4	18.6
8 9	22 27.97	- 13 14.4	1.425	2.411	7.3	19.0	8 9	22 29.65	- 19 19.3	1.683	2.666	6.7	18.4
8 19	22 19.51	- 13 57.0	1.403	2.412	2.7	18.7	8 19	22 20.16	- 20 20.2	1.660	2.662	3.7	18.2
8 29	22 10.41	- 14 37.8	1.407	2.413	3.0	18.8	8 29	22 9.99	- 21 12.5	1.664	2.658	4.8	18.2
9 8	22 1.87	- 15 10.5	1.437	2.414	7.6	19.0	9 8	22 0.29	- 21 50.2	1.695	2.653	8.4	18.4
9 18	21 54.95	- 15 30.8	1.492	2.416	11.9	19.3	9 18	21 52.11	- 22 10.2	1.751	2.647	12.1	18.7
9 28	21 50.48	- 15 36.6	1.567	2.418	15.7	19.5	9 28	21 46.25	- 22 11.8	1.829	2.640	15.4	18.9
81316	2000 <i>GE</i> ₁₃		8 24.6 270°97										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
201311	2002 <i>TY</i> ₉₁		8 24.6 273°86	2°8/22.8	18		256899	2008 <i>DB</i> ₅₂		8 24.6 58°09	5°0/30.4	18	
7 20	22 42.97	-16 3.5	1.525	2.400	15.6	20.2	7 20	22 34.46	+ 7 38.3	2.009	2.796	15.6	20.2
7 30	22 37.87	-16 28.1	1.449	2.389	11.8	19.9	7 30	22 30.62	+ 7 20.5	1.946	2.816	12.8	20.0
8 9	22 30.11	-16 58.8	1.393	2.379	7.5	19.6	8 9	22 25.09	+ 6 40.9	1.903	2.837	9.7	19.9
8 19	22 20.39	-17 29.8	1.362	2.369	3.4	19.4	8 19	22 18.45	+ 5 40.7	1.884	2.858	6.8	19.8
8 29	22 9.82	-17 54.2	1.357	2.358	4.2	19.4	8 29	22 11.43	+ 4 24.0	1.891	2.879	5.1	19.7
9 8	21 59.76	-18 6.4	1.378	2.348	8.6	19.6	9 8	22 4.86	+ 2 56.9	1.924	2.900	6.1	19.8
9 18	21 51.43	-18 3.5	1.422	2.338	13.1	19.9	9 18	21 59.47	+ 1 26.7	1.985	2.922	8.7	20.0
9 28	21 45.78	-17 44.8	1.488	2.327	16.9	20.1	9 28	21 55.82	+ 0 0.2	2.071	2.943	11.5	20.2
458588	2011 <i>FQ</i> ₂₄		8 24.6 149°16	7°8/1.3	16		446951	2003 <i>RF</i> ₆		8 24.6 323°45	2°6/23.1	17	
7 20	22 36.92	+14 32.2	1.281	2.063	23.0	21.2	7 20	22 47.43	-19 37.9	2.003	2.860	13.1	20.1
7 30	22 33.59	+13 41.0	1.205	2.067	19.6	21.0	7 30	22 40.59	-19 19.1	1.917	2.848	10.0	19.8
8 9	22 27.55	+12 5.2	1.146	2.071	15.5	20.7	8 9	22 31.50	-18 58.8	1.855	2.836	6.4	19.6
8 19	22 19.48	+ 9 43.9	1.106	2.074	11.2	20.5	8 19	22 20.83	-18 33.5	1.819	2.824	3.1	19.4
8 29	22 10.53	+ 6 43.7	1.090	2.077	8.1	20.3	8 29	22 9.55	-18 0.1	1.813	2.813	3.6	19.4
9 8	22 2.12	+ 3 19.8	1.099	2.080	8.8	20.4	9 8	21 58.79	-17 16.9	1.835	2.802	7.1	19.6
9 18	21 55.53	- 0 8.3	1.135	2.082	12.6	20.6	9 18	21 49.52	-16 24.1	1.884	2.791	10.8	19.8
9 28	21 51.71	- 3 22.0	1.195	2.084	16.9	20.9	9 28	21 42.54	-15 22.7	1.957	2.781	14.0	20.0
307199	2002 <i>FY</i> ₆		8 24.6 223°01	6°4/16.4	18		190319	1998 <i>FN</i> ₂₉		8 24.6 193°34	1°9/26.6	18	
7 20	22 39.50	-31 23.9	2.646	3.507	10.2	21.0	7 20	22 37.84	- 2 2.6	2.180	3.003	13.4	20.9
7 30	22 34.38	-32 40.2	2.580	3.498	8.3	20.9	7 30	22 33.19	- 2 31.9	2.095	3.001	10.5	20.7
8 9	22 27.49	-33 51.8	2.538	3.488	6.8	20.7	8 9	22 26.78	- 3 16.2	2.032	2.999	7.1	20.4
8 19	22 19.34	-34 52.5	2.523	3.478	6.5	20.7	8 19	22 19.10	- 4 13.1	1.996	2.996	3.6	20.2
8 29	22 10.66	-35 36.8	2.536	3.468	7.5	20.8	8 29	22 10.88	- 5 18.1	1.987	2.993	2.1	20.1
9 8	22 2.31	-36 1.4	2.574	3.457	9.3	20.9	9 8	22 2.96	- 6 25.7	2.007	2.989	5.3	20.3
9 18	21 55.06	-36 5.5	2.636	3.446	11.3	21.0	9 18	21 56.12	- 7 30.4	2.054	2.984	8.8	20.5
9 28	21 49.57	-35 50.0	2.719	3.435	13.2	21.1	9 28	21 51.01	- 8 27.3	2.127	2.979	12.0	20.7
136353	2004 <i>CC</i> ₇₈		8 24.6 118°20	2°1/22.9	18		303190	2004 <i>FS</i> ₁₂₀		8 24.6 124°03	3°8/20.6	18	
7 20	22 41.96	-13 41.5	1.684	2.551	14.7	20.0	7 20	22 37.42	-19 1.7	2.132	3.004	11.9	20.6
7 30	22 36.61	-14 26.3	1.626	2.563	11.0	19.8	7 30	22 32.90	-20 11.2	2.071	3.010	8.9	20.4
8 9	22 29.01	-15 19.0	1.590	2.575	6.8	19.6	8 9	22 26.58	-21 24.0	2.034	3.016	5.8	20.2
8 19	22 19.90	-16 13.4	1.579	2.586	2.8	19.3	8 19	22 19.02	-22 33.6	2.024	3.023	3.8	20.1
8 29	22 10.27	-17 2.7	1.595	2.597	3.5	19.4	8 29	22 11.00	-23 33.7	2.042	3.029	4.9	20.2
9 8	22 1.29	-17 41.0	1.638	2.608	7.6	19.7	9 8	22 3.40	-24 19.4	2.086	3.035	7.8	20.4
9 18	21 53.91	-18 4.9	1.706	2.618	11.5	20.0	9 18	21 57.02	-24 47.9	2.157	3.040	10.7	20.6
9 28	21 48.87	-18 12.9	1.797	2.628	14.8	20.2	9 28	21 52.48	-24 58.7	2.249	3.046	13.3	20.8
261079	2005 <i>SN</i> ₂₁₉		8 24.6 250°56	4°5/29.2	18		1661	Granule		8 24.6 90°89	2°4/26.3	18	
7 20	22 36.31	+ 4 39.4	2.509	3.294	12.9	20.6	7 20	22 41.86	- 3 33.7	1.319	2.173	18.7	16.1
7 30	22 31.87	+ 4 56.7	2.413	3.284	10.6	20.5	7 30	22 37.04	- 3 39.6	1.260	2.184	14.6	15.9
8 9	22 25.88	+ 4 59.4	2.340	3.275	8.1	20.3	8 9	22 29.55	- 4 4.8	1.219	2.194	9.8	15.7
8 19	22 18.75	+ 4 47.2	2.291	3.266	5.7	20.1	8 19	22 20.17	- 4 46.4	1.202	2.205	4.7	15.4
8 29	22 11.11	+ 4 21.5	2.269	3.256	4.5	20.0	8 29	22 10.13	- 5 38.2	1.209	2.215	2.9	15.3
9 8	22 3.67	+ 3 45.4	2.274	3.246	5.6	20.1	9 8	22 0.81	- 6 32.5	1.241	2.225	7.3	15.6
9 18	21 57.12	+ 3 2.8	2.307	3.236	8.1	20.2	9 18	21 53.41	- 7 21.9	1.297	2.236	12.1	15.9
9 28	21 52.05	+ 2 18.4	2.366	3.226	10.7	20.4	9 28	21 48.77	- 8 0.9	1.374	2.245	16.2	16.2
398961	2013 <i>EM</i> ₁₀		8 24.6 8°48	4°4/20.3	18		257186	2008 <i>KZ</i> ₇		8 24.6 70°15	5°2/30.5	18	
7 20	22 32.26	-17 26.1	1.584	2.476	14.1	19.6	7 20	22 34.55	+ 7 41.1	2.242	3.020	14.4	20.4
7 30	22 29.57	-18 54.4	1.528	2.479	10.5	19.4	7 30	22 30.64	+ 7 44.1	2.164	3.027	12.0	20.2
8 9	22 24.73	-20 29.4	1.494	2.482	6.8	19.2	8 9	22 25.12	+ 7 27.8	2.106	3.033	9.3	20.0
8 19	22 18.37	-22 2.5	1.485	2.486	4.4	19.0	8 19	22 18.49	+ 6 52.6	2.072	3.040	6.7	19.9
8 29	22 11.45	-23 24.4	1.501	2.491	5.9	19.1	8 29	22 11.41	+ 6 0.7	2.063	3.047	5.3	19.8
9 8	22 5.04	-24 27.5	1.543	2.497	9.4	19.4	9 8	22 4.66	+ 4 56.6	2.082	3.053	6.1	19.9
9 18	22 0.08	-25 8.0	1.607	2.505	12.9	19.6	9 18	21 58.92	+ 3 46.0	2.128	3.060	8.4	20.0
9 28	21 57.31	-25 24.9	1.692	2.513	16.0	19.8	9 28	21 54.80	+ 2 34.9	2.198	3.067	11.0	20.2
24297	Jonbach		8 24.6 325°55	1°6/23.1	18		344689	2003 <i>SU</i> ₃₁₁		8 24.6 252°09	1°4/25.9	18	
7 20	22 35.94	-11 25.8	1.709	2.580	14.3	18.4	7 20	22 37.64	- 4 25.3	2.080	2.915	13.5	21.6
7 30	22 32.22	-12 22.4	1.636	2.576	10.7	18.2	7 30	22 33.23	- 4 46.1	1.986	2.901	10.5	21.4
8 9	22 26.38	-13 30.7	1.586	2.572	6.7	18.0	8 9	22 26.92	- 5 20.7	1.914	2.886	7.0	21.1
8 19	22 18.99	-14 44.7	1.561	2.569	2.5	17.7	8 19	22 19.20	- 6 6.6	1.867	2.871	3.2	20.9
8 29	22 10.96	-15 57.0	1.562	2.566	3.2	17.7	8 29	22 10.81	- 6 59.7	1.848	2.855	1.9	20.7
9 8	22 3.34	-17 0.2	1.589	2.563	7.4	18.0	9 8	22 2.65	- 7 54.6	1.857	2.839	5.6	21.0
9 18	21 57.10	-17 48.9	1.642	2.560	11.5	18.2	9 18	21 55.57	- 8 46.1	1.893	2.823	9.5	21.2
9 28	21 53.00	-18 20.1	1.716	2.557	15.0	18.4	9 28	21 50.31	- 9 29.5	1.953	2.806	12.9	21.4
323739	2005 <i>MK</i> ₂₂		8 24.6 34°33	1°6/25.6	17		53365	1999 <i>JO</i> ₇₈		8 24.6 252°30	5°5/19.2	18	
7 20	22 39.04	- 6 11.7	1.148	2.024	19.5	20.0	7 20	22 37.36	-19 53.7	1.650	2.535	14.0	17.5
7 30	22 35.09	- 6 10.5	1.100	2.037	14.9	19.8	7 30	22 33.47	-21 41.2	1.588	2.533	10.6	17.3
8 9	22 28.35	- 6 27.1	1.070	2.052	9.7	19.5	8 9	22 27.26	-23 34.3	1.550	2.532	7.3	17.1
8 19	22 19.70	- 6 57.7	1.061	2.067	4.2	19.3	8 19	22 19.35	-25 23.1	1.536	2.530	5.5	17.0
8 29	22 10.48	- 7 35.9	1.076	2.084	2.5	19.2	8 29	22 10.72	-26 57.2	1.550	2.529	7.2	17.1
9 8	22 2.14	- 8 14.0	1.114	2.101	7.7	19.6	9 8	22 2.57	-28 8.7	1.589	2.528	10.5	17.3
9 18	21 55.89	- 8 45.5	1.175	2.118	12.6	19.9	9 18	21 55.94	-28 53.9	1.651	2.526	13.9	17.5
9 28	21 52.50	- 9 5.9	1.256	2.137	16.8	20.2	9 28	21 51.68	-29 12.5	1.732	2.525	16.9	17.7
43251	2000 <i>CX</i> ₄		8 24.6 319°92	1°7/22.7	18		106997	2000 <i>YR</i> ₁₀₈		8 24.6 156°91	0°2/24		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
159935	2005 WY ₅₉		8 24.6 162°79		4.1/19.6 18		405476	2004 VG ₁₁₂		8 24.6 258°56		1.9/26.7 18	
7 20	22 36.57	-22 37.7	2.603	3.471	10.1	19.9	7 20	22 36.02	-2 41.8	2.751	3.567	11.1	21.9
7 30	22 32.01	-23 42.4	2.539	3.474	7.7	19.8	7 30	22 31.59	-2 51.5	2.645	3.547	8.7	21.8
8 9	22 25.92	-24 47.3	2.500	3.476	5.3	19.6	8 9	22 25.71	-3 12.0	2.563	3.527	6.0	21.6
8 19	22 18.77	-25 47.3	2.489	3.479	4.1	19.6	8 19	22 18.75	-3 42.1	2.507	3.506	3.2	21.3
8 29	22 11.22	-26 37.0	2.506	3.481	5.1	19.6	8 29	22 11.27	-4 19.2	2.480	3.485	2.0	21.2
9 8	22 4.01	-27 13.0	2.550	3.483	7.3	19.8	9 8	22 3.93	-4 59.7	2.482	3.463	4.5	21.4
9 18	21 57.79	-27 33.2	2.620	3.484	9.7	19.9	9 18	21 57.37	-5 40.1	2.513	3.441	7.5	21.5
9 28	21 53.13	-27 37.4	2.713	3.486	11.9	20.1	9 28	21 52.15	-6 16.8	2.569	3.419	10.3	21.7
191191	2002 OY ₂₀		8 24.6 357°96		0.3/24.9 18		183082	2002 RH ₅₄		8 24.6 292°09		2.8/22.8 18	
7 20	22 33.13	-9 7.0	1.504	2.381	15.6	19.0	7 20	22 40.53	-15 2.3	1.453	2.333	15.9	19.9
7 30	22 30.29	-9 10.3	1.435	2.375	11.9	18.8	7 30	22 36.25	-15 37.4	1.373	2.316	12.1	19.6
8 9	22 25.25	-9 25.5	1.386	2.371	7.6	18.5	8 9	22 29.26	-16 21.3	1.313	2.300	7.6	19.3
8 19	22 18.61	-9 49.2	1.360	2.368	2.9	18.2	8 19	22 20.19	-17 7.7	1.277	2.284	3.4	19.1
8 29	22 11.35	-10 16.3	1.359	2.367	2.0	18.2	8 29	22 10.14	-17 48.9	1.266	2.267	4.3	19.1
9 8	22 4.57	-10 41.4	1.383	2.368	6.8	18.5	9 8	22 0.51	-18 17.8	1.280	2.251	9.0	19.3
9 18	21 59.27	-10 59.6	1.431	2.370	11.2	18.7	9 18	21 52.57	-18 29.9	1.317	2.235	13.7	19.5
9 28	21 56.21	-11 7.6	1.500	2.373	15.0	19.0	9 28	21 47.34	-18 23.7	1.374	2.220	17.7	19.7
400933	2010 UZ ₉₂		8 24.6 36°36		3.6/21.3 18		479484	2014 AF ₂₆		8 24.6 188°38		3.6/20.8 17	
7 20	22 38.81	-20 16.3	2.120	2.991	11.9	20.9	7 20	22 37.84	-17 2.3	1.992	2.863	12.6	21.4
7 30	22 33.94	-20 52.9	2.056	2.994	9.0	20.8	7 30	22 33.43	-18 25.7	1.923	2.862	9.4	21.2
8 9	22 27.23	-21 30.6	2.016	2.997	5.9	20.6	8 9	22 27.06	-19 55.4	1.878	2.862	6.1	21.0
8 19	22 19.27	-22 4.3	2.001	3.000	3.7	20.4	8 19	22 19.27	-21 24.3	1.860	2.861	3.7	20.9
8 29	22 10.87	-22 29.0	2.014	3.004	4.6	20.5	8 29	22 10.90	-22 44.7	1.869	2.859	5.0	21.0
9 8	22 2.95	-22 41.0	2.054	3.007	7.5	20.7	9 8	22 2.90	-23 50.0	1.907	2.858	8.2	21.2
9 18	21 56.30	-22 38.7	2.119	3.011	10.5	20.9	9 18	21 56.16	-24 36.4	1.969	2.856	11.4	21.4
9 28	21 51.54	-22 21.9	2.207	3.015	13.2	21.1	9 28	21 51.40	-25 2.7	2.053	2.853	14.3	21.5
318525	2005 EA ₂₃₃		8 24.6 160°97		2.2/22.7 17		225746	2001 SC ₄₂		8 24.6 325°21		1.5/23.6 18	
7 20	22 40.88	-12 37.8	1.721	2.585	14.5	21.3	7 20	22 34.71	-10 57.8	1.264	2.153	17.2	19.7
7 30	22 35.89	-13 43.4	1.654	2.591	10.9	21.0	7 30	22 32.11	-11 37.1	1.186	2.134	13.1	19.4
8 9	22 28.66	-14 59.3	1.611	2.596	6.7	20.8	8 9	22 26.78	-12 32.1	1.127	2.117	8.2	19.1
8 19	22 19.84	-16 18.7	1.593	2.600	2.8	20.6	8 19	22 19.31	-13 36.8	1.091	2.100	3.0	18.7
8 29	22 10.41	-17 33.5	1.602	2.604	3.7	20.6	8 29	22 10.81	-14 42.5	1.078	2.084	3.5	18.7
9 8	22 1.48	-18 36.6	1.639	2.607	7.8	20.9	9 8	22 2.71	-15 39.6	1.088	2.068	8.9	19.0
9 18	21 54.07	-19 23.0	1.701	2.609	11.7	21.1	9 18	21 56.34	-16 21.0	1.121	2.054	14.1	19.2
9 28	21 48.93	-19 50.9	1.785	2.611	15.1	21.4	9 28	21 52.76	-16 42.2	1.172	2.041	18.6	19.4
128655	2004 RD ₄₉		8 24.6 285°78		2.3/23.0 18		395374	2011 SJ ₃₂		8 24.6 1°74		1.7/25.9 18	
7 20	22 41.19	-15 4.6	1.680	2.551	14.6	20.9	7 20	22 36.46	-4 56.9	1.670	2.523	15.5	20.8
7 30	22 36.43	-15 29.5	1.592	2.531	11.0	20.6	7 30	22 32.60	-5 3.7	1.598	2.522	12.0	20.6
8 9	22 29.22	-16 1.4	1.526	2.512	7.0	20.3	8 9	22 26.63	-5 25.4	1.546	2.522	8.0	20.3
8 19	22 20.13	-16 35.1	1.485	2.492	3.0	20.0	8 19	22 19.13	-5 59.2	1.518	2.522	3.7	20.1
8 29	22 10.14	-17 4.3	1.470	2.472	3.7	20.1	8 29	22 11.02	-6 40.5	1.516	2.523	2.2	20.0
9 8	22 0.49	-17 23.5	1.481	2.452	8.1	20.3	9 8	22 3.35	-7 23.6	1.539	2.524	6.2	20.2
9 18	21 52.31	-17 29.0	1.517	2.433	12.4	20.5	9 18	21 57.08	-8 3.0	1.588	2.525	10.4	20.5
9 28	21 46.55	-17 19.3	1.574	2.413	16.2	20.7	9 28	21 52.95	-8 33.9	1.660	2.527	14.1	20.7
19186	1991 VY ₁		8 24.6 345°22		25°0/ 2.2 18		156056	2001 SN ₅₆		8 24.6 251°01		3.9/21.3 18	
7 20	22 36.57	+23 42.8	1.049	1.800	28.9	16.6	7 20	22 40.25	-18 0.7	1.746	2.621	13.9	19.5
7 30	22 34.59	+27 55.2	0.985	1.779	27.6	16.4	7 30	22 35.58	-18 59.4	1.670	2.611	10.5	19.3
8 9	22 29.11	+31 41.1	0.934	1.761	26.4	16.3	8 9	22 28.59	-20 3.9	1.617	2.601	6.8	19.0
8 19	22 20.44	+34 44.1	0.897	1.745	25.5	16.1	8 19	22 19.88	-21 7.1	1.589	2.590	4.0	18.8
8 29	22 9.72	+36 49.6	0.873	1.731	25.0	16.1	8 29	22 10.42	-22 1.2	1.587	2.580	5.3	18.9
9 8	21 58.84	+37 50.0	0.862	1.720	25.1	16.0	9 8	22 1.36	-22 40.0	1.612	2.569	8.9	19.1
9 18	21 49.94	+37 46.7	0.864	1.712	25.6	16.0	9 18	21 53.78	-22 59.9	1.660	2.557	12.6	19.3
9 28	21 44.91	+36 49.8	0.877	1.706	26.6	16.1	9 28	21 48.52	-23 0.2	1.730	2.546	15.9	19.5
382525	2001 SU ₂₄₇		8 24.6 303°76		1.5/23.5 18		376062	2010 GU ₂₈		8 24.6 101°14		3.5/19.7 18	
7 20	22 37.57	-11 40.9	1.464	2.342	15.9	20.7	7 20	22 33.96	-23 17.3	3.213	4.078	8.4	20.5
7 30	22 33.98	-12 17.5	1.381	2.323	12.1	20.5	7 30	22 29.77	-24 8.5	3.154	4.086	6.4	20.3
8 9	22 27.82	-13 7.0	1.317	2.304	7.6	20.2	8 9	22 24.39	-24 59.0	3.120	4.095	4.5	20.2
8 19	22 19.66	-14 3.8	1.277	2.286	2.8	19.8	8 19	22 18.21	-25 44.9	3.114	4.103	3.5	20.2
8 29	22 10.53	-15 0.4	1.263	2.268	3.3	19.8	8 29	22 11.76	-26 22.6	3.137	4.111	4.3	20.2
9 8	22 1.74	-15 48.9	1.273	2.250	8.3	20.1	9 8	22 5.58	-26 49.5	3.188	4.119	6.1	20.4
9 18	21 54.51	-16 23.2	1.307	2.233	13.1	20.3	9 18	22 0.20	-27 4.1	3.265	4.128	8.1	20.5
9 28	21 49.86	-16 40.0	1.361	2.216	17.3	20.5	9 28	21 56.04	-27 6.0	3.366	4.136	9.9	20.7
345007	2005 CH ₁₄		8 24.6 285°62		1.9/22.9 18		523137	2016 SN ₅₄		8 24.6 346°53		3.8/21.4 18	
7 20	22 37.73	-12 21.4	1.810	2.677	13.8	21.1	7 20	22 34.78	-15 56.2	1.505	2.393	14.9	20.8
7 30	22 33.73	-13 12.3	1.713	2.651	10.5	20.9	7 30	22 31.67	-17 8.4	1.439	2.388	11.2	20.6
8 9	22 27.50	-14 14.8	1.639	2.625	6.6	20.6	8 9	22 26.20	-18 29.7	1.394	2.383	7.1	20.3
8 19	22 19.52	-15 23.7	1.590	2.598	2.6	20.3	8 19	22 19.01	-19 51.9	1.374	2.378	4.0	20.1
8 29	22 10.63	-16 32.0	1.568	2.571	3.4	20.3	8 29	22 11.11	-21 5.9	1.379	2.374	5.3	20.2
9 8	22 1.91	-17 32.1	1.573	2.544	7.7	20.5	9 8	22 3.69	-22 3.5	1.408	2.371	9.3	20.4
9 18	21 54.42	-18 18.5	1.603	2.517	11.9	20.7	9 18	21 57.84	-22 40.1	1.461	2.369	13.3	20.7
9 28	21 49.08	-18 47.7	1.655	2.489	15.7	20.8	9 28	21 54.37	-22 54.0	1.534	2.367	16.8	20.9
273593	2007 CK ₅₄		8 24.6 156°85		0.3/24.4 17		337269	2000 UT ₂₃		8 24.6 322°24		5.7/20.4 18	
7 20	22 41.08	-9 36.1	1.914										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
315039	2007 CV ₂₄		8 24.6 266°73	1°2/25.7	18		355224	2007 BO ₆		8 24.6 82°84	3°8/28.5	18	
7 20	22 38.57	- 6 30.4	2.220	3.058	12.7	21.1	7 20	22 39.29	+ 2 16.1	2.366	3.161	13.3	20.1
7 30	22 33.74	- 6 27.9	2.133	3.051	9.8	20.9	7 30	22 33.96	+ 2 32.8	2.304	3.185	10.7	20.0
8 9	22 27.15	- 6 35.1	2.069	3.043	6.4	20.7	8 9	22 27.10	+ 2 35.3	2.263	3.209	7.8	19.9
8 19	22 19.30	- 6 50.0	2.031	3.036	2.9	20.4	8 19	22 19.23	+ 2 24.4	2.248	3.232	5.1	19.7
8 29	22 10.90	- 7 9.8	2.021	3.028	1.8	20.4	8 29	22 11.06	+ 2 2.1	2.261	3.255	3.8	19.7
9 8	22 2.80	- 7 30.7	2.039	3.020	5.3	20.6	9 8	22 3.31	+ 1 32.0	2.302	3.277	5.3	19.8
9 18	21 55.77	- 7 49.3	2.084	3.012	8.8	20.8	9 18	21 56.67	+ 0 58.0	2.371	3.300	7.8	20.0
9 28	21 50.48	- 8 2.6	2.153	3.005	11.9	21.0	9 28	21 51.64	+ 0 24.3	2.465	3.322	10.4	20.2
13178	Catalan		8 24.6 225°77	1°3/26.2	18		239952	2001 FS ₇₅		8 24.6 144°09	2°2/27.0	17	
7 20	22 35.50	- 4 12.5	2.694	3.519	11.1	19.4	7 20	22 36.33	- 0 24.5	2.118	2.939	13.8	20.7
7 30	22 31.16	- 4 31.0	2.602	3.511	8.6	19.2	7 30	22 32.06	- 1 3.7	2.042	2.945	10.8	20.5
8 9	22 25.41	- 5 0.0	2.534	3.503	5.7	19.0	8 9	22 26.09	- 1 59.8	1.988	2.952	7.4	20.3
8 19	22 18.64	- 5 37.5	2.492	3.494	2.7	18.8	8 19	22 18.92	- 3 9.8	1.959	2.958	3.9	20.1
8 29	22 11.43	- 6 20.4	2.479	3.486	1.6	18.7	8 29	22 11.27	- 4 28.8	1.958	2.963	2.3	20.0
9 8	22 4.43	- 7 4.9	2.495	3.477	4.4	18.9	9 8	22 3.97	- 5 50.5	1.986	2.969	5.2	20.2
9 18	21 58.26	- 7 47.3	2.540	3.467	7.5	19.1	9 18	21 57.78	- 7 8.7	2.041	2.974	8.7	20.4
9 28	21 53.46	- 8 24.2	2.609	3.457	10.2	19.2	9 28	21 53.31	- 8 18.1	2.121	2.978	11.9	20.6
72304	2001 BC ₃₂		8 24.6 190°96	0°8/23.9	18		432711	2011 CO ₂₉		8 24.6 221°39	0°1/24.6	17	
7 20	22 38.77	- 8 50.7	1.570	2.434	15.7	19.4	7 20	22 41.24	- 8 59.6	1.869	2.719	14.2	22.3
7 30	22 34.54	- 9 46.9	1.499	2.434	11.9	19.1	7 30	22 36.13	- 9 25.2	1.784	2.711	10.8	22.1
8 9	22 27.96	- 10 58.2	1.449	2.433	7.4	18.9	8 9	22 28.86	- 10 2.1	1.722	2.703	6.9	21.9
8 19	22 19.66	- 12 18.6	1.424	2.432	2.6	18.6	8 19	22 20.00	- 10 46.6	1.686	2.693	2.5	21.6
8 29	22 10.64	- 13 40.0	1.425	2.431	2.7	18.6	8 29	22 10.42	- 11 33.4	1.677	2.684	2.0	21.5
9 8	22 2.10	- 14 53.9	1.453	2.430	7.5	18.9	9 8	22 1.18	- 12 16.5	1.695	2.674	6.5	21.8
9 18	21 55.10	- 15 53.7	1.505	2.428	11.9	19.1	9 18	21 53.27	- 12 51.5	1.740	2.663	10.6	22.0
9 28	21 50.47	- 16 35.5	1.580	2.427	15.7	19.4	9 28	21 47.48	- 13 14.8	1.808	2.652	14.2	22.2
355718	2008 FY ₁₃₅		8 24.6 82°40	2°4/27.1	18		254166	2004 QP ₅		8 24.7 31°98	1°1/23.9	18	
7 20	22 36.55	- 1 39.5	2.217	3.040	13.2	20.5	7 20	22 42.29	- 14 11.8	1.969	2.828	13.2	19.7
7 30	22 32.08	- 1 47.5	2.148	3.052	10.3	20.3	7 30	22 36.60	- 14 5.9	1.901	2.832	10.0	19.5
8 9	22 26.01	- 2 9.0	2.101	3.064	7.1	20.2	8 9	22 28.95	- 14 4.4	1.855	2.837	6.2	19.3
8 19	22 18.85	- 2 42.1	2.079	3.077	3.9	20.0	8 19	22 19.95	- 14 3.9	1.835	2.843	2.3	19.0
8 29	22 11.30	- 3 23.3	2.085	3.089	2.5	19.9	8 29	22 10.51	- 14 1.0	1.843	2.848	2.4	19.1
9 8	22 4.14	- 4 8.2	2.119	3.101	5.0	20.1	9 8	22 1.60	- 13 52.9	1.879	2.854	6.3	19.3
9 18	21 58.07	- 4 52.3	2.180	3.113	8.2	20.3	9 18	21 54.09	- 13 37.6	1.941	2.860	9.9	19.6
9 28	21 53.64	- 5 31.5	2.266	3.125	11.1	20.5	9 28	21 48.63	- 13 14.4	2.027	2.866	13.0	19.8
294796	2008 CB ₇₂		8 24.6 203°33	4°0/27.6	18 R		433380	2013 SR ₆₃		8 24.7 277°55	0°6/25.1	15	
7 20	22 40.78	+ 0 1.9	1.628	2.456	17.0	20.6	7 20	22 38.15	- 6 23.9	1.564	2.423	16.1	22.0
7 30	22 35.99	+ 0 14.5	1.550	2.454	13.6	20.4	7 30	22 34.29	- 6 56.6	1.474	2.404	12.4	21.7
8 9	22 28.86	+ 0 8.6	1.491	2.452	9.7	20.2	8 9	22 27.98	- 7 46.6	1.405	2.385	8.1	21.4
8 19	22 20.00	- 0 15.1	1.456	2.450	5.8	19.9	8 19	22 19.75	- 8 50.2	1.359	2.366	3.2	21.1
8 29	22 10.39	- 0 53.3	1.447	2.448	4.0	19.8	8 29	22 10.56	- 10 1.0	1.339	2.347	2.1	20.9
9 8	22 1.21	- 1 40.5	1.464	2.445	6.8	20.0	9 8	22 1.62	- 11 10.7	1.345	2.328	7.3	21.2
9 18	21 53.52	- 2 30.2	1.506	2.443	10.9	20.2	9 18	21 54.10	- 12 12.0	1.376	2.308	12.1	21.4
9 28	21 48.17	- 3 16.1	1.570	2.440	14.6	20.4	9 28	21 49.00	- 12 59.1	1.429	2.289	16.3	21.7
101233	1998 SF ₇₆		8 24.6 304°87	4°2/27.4	18		293428	2007 EP ₁₃₅		8 24.7 223°42	2°3/27.4	18	
7 20	22 38.69	- 0 46.0	1.449	2.292	17.9	19.6	7 20	22 33.95	+ 0 6.0	2.403	3.218	12.5	20.5
7 30	22 34.77	- 0 25.5	1.366	2.280	14.4	19.4	7 30	22 30.15	- 0 24.8	2.316	3.215	9.9	20.3
8 9	22 28.29	- 0 24.1	1.303	2.269	10.3	19.1	8 9	22 24.84	- 1 10.7	2.252	3.212	6.9	20.1
8 19	22 19.85	- 0 41.5	1.261	2.257	6.1	18.8	8 19	22 18.46	- 2 9.8	2.213	3.210	3.8	19.9
8 29	22 10.48	- 1 15.0	1.244	2.247	4.3	18.7	8 29	22 11.62	- 3 18.1	2.203	3.207	2.4	19.8
9 8	22 1.46	- 1 58.7	1.252	2.236	7.4	18.9	9 8	22 5.03	- 4 30.5	2.221	3.204	4.8	20.0
9 18	21 54.01	- 2 45.7	1.284	2.226	11.9	19.1	9 18	21 59.36	- 5 41.8	2.267	3.200	7.9	20.2
9 28	21 49.11	- 3 28.9	1.337	2.216	16.1	19.3	9 28	21 55.17	- 6 47.0	2.338	3.197	10.8	20.3
260523	2005 EA ₁₀₉		8 24.6 108°26	4°0/27.6	17		124563	2001 SO ₁		8 24.7 350°75	0°8/24.2	17	
7 20	22 41.14	+ 0 7.8	1.514	2.346	17.8	20.7	7 20	22 38.04	- 11 22.1	0.985	1.884	20.0	19.7
7 30	22 36.27	+ 0 16.2	1.448	2.355	14.2	20.5	7 30	22 35.09	- 11 26.2	0.925	1.878	15.3	19.4
8 9	22 29.01	+ 0 4.5	1.401	2.363	10.1	20.2	8 9	22 28.85	- 11 44.2	0.882	1.872	9.7	19.1
8 19	22 20.03	- 0 25.9	1.376	2.371	5.9	20.0	8 19	22 20.11	- 12 10.7	0.859	1.868	3.5	18.8
8 29	22 10.41	- 1 11.1	1.377	2.379	4.1	19.9	8 29	22 10.35	- 12 38.0	0.858	1.865	3.2	18.7
9 8	22 1.36	- 2 4.4	1.404	2.387	7.0	20.1	9 8	22 1.36	- 12 58.1	0.878	1.863	9.4	19.1
9 18	21 53.96	- 2 58.9	1.456	2.394	11.0	20.4	9 18	21 54.69	- 13 5.3	0.919	1.863	15.1	19.4
9 28	21 49.02	- 3 48.0	1.530	2.402	14.8	20.7	9 28	21 51.40	- 12 56.7	0.977	1.863	20.0	19.7
216878	2008 FL ₆₀		8 24.6 19°47	0°4/24.2	18		108107	2001 FU ₁₉₁		8 24.7 58°73	0°6/25.1	18	
7 20	22 31.95	- 7 37.5	1.517	2.391	15.6	19.1	7 20	22 38.76	- 6 27.4	1.394	2.259	17.3	19.9
7 30	22 29.29	- 8 36.1	1.462	2.402	11.8	18.8	7 30	22 34.67	- 6 58.0	1.332	2.265	13.2	19.7
8 9	22 24.55	- 9 50.2	1.428	2.413	7.3	18.6	8 9	22 28.09	- 7 45.7	1.289	2.271	8.5	19.4
8 19	22 18.37	- 11 13.5	1.417	2.426	2.6	18.4	8 19	22 19.72	- 8 45.7	1.269	2.277	3.3	19.1
8 29	22 11.70	- 12 37.9	1.433	2.440	2.3	18.4	8 29	22 10.68	- 9 50.6	1.275	2.283	2.2	19.1
9 8	22 5.57	- 13 54.9	1.474	2.454	6.9	18.7	9 8	22 2.26	- 10 52.3	1.306	2.289	7.3	19.4
9 18	22 0.88	- 14 58.0	1.539	2.470	11.1	19.0	9 18	21 55.57	- 11 44.0	1.361	2.296	12.0	19.7
9 28	21 58.33	- 15 43.5	1.626	2.487	14.7	19.3	9 28	21 51.43	- 12 20.9	1.437	2.302	16.0	20.0
306880	2001 TL ₂₃		8 24.6 271°75	3°1/27.7	15		44						

EPHEMERIDES

8 24.7

8 24.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
181915	1999 TY ₅₁		8 24.7 53°54'	3.8/28.7	18		477205	2009 HE ₈₆		8 24.7 180°88'	4.5/20.0	18	
7 20	22 34.93	+ 2 57.0	2.166	2.972	14.0	19.9	7 20	22 39.63	-22 41.9	2.299	3.167	11.3	21.8
7 30	22 31.00	+ 2 52.7	2.088	2.976	11.3	19.8	7 30	22 34.54	-23 40.2	2.233	3.167	8.6	21.6
8 9	22 25.42	+ 2 31.4	2.031	2.981	8.3	19.6	8 9	22 27.66	-24 38.6	2.192	3.168	5.9	21.5
8 19	22 18.69	+ 1 54.1	1.999	2.985	5.3	19.4	8 19	22 19.53	-25 31.3	2.177	3.168	4.5	21.4
8 29	22 11.49	+ 1 3.9	1.993	2.990	3.8	19.3	8 29	22 10.93	-26 12.7	2.190	3.168	5.5	21.5
9 8	22 4.62	+ 0 5.5	2.015	2.995	5.5	19.4	9 8	22 2.74	-26 38.9	2.230	3.167	8.0	21.6
9 18	21 58.81	- 0 55.7	2.063	2.999	8.4	19.6	9 18	21 55.73	-26 48.1	2.295	3.166	10.7	21.8
9 28	21 54.65	- 1 54.2	2.137	3.004	11.4	19.8	9 28	21 50.55	-26 40.4	2.383	3.165	13.1	22.0
2796	Kron		8 24.7 105°19'	0.9/25.6	18		33102	1997 YJ ₁₁		8 24.7 85°89'	1.3/23.7	18	
7 20	22 36.39	- 3 35.4	1.877	2.718	14.5	16.5	7 20	22 41.73	-12 19.6	1.694	2.558	14.8	18.4
7 30	22 32.29	- 4 36.6	1.810	2.729	11.1	16.3	7 30	22 36.40	-12 48.6	1.639	2.574	11.1	18.2
8 9	22 26.31	- 5 54.6	1.765	2.740	7.2	16.1	8 9	22 28.92	-13 25.7	1.606	2.590	6.9	18.0
8 19	22 19.02	- 7 24.7	1.745	2.751	3.0	15.8	8 19	22 19.99	-14 6.0	1.598	2.606	2.5	17.8
8 29	22 11.25	- 9 0.1	1.754	2.761	1.7	15.7	8 29	22 10.63	-14 43.5	1.617	2.622	2.8	17.8
9 8	22 3.91	-10 32.8	1.790	2.772	5.8	16.0	9 8	22 1.93	-15 12.9	1.663	2.638	7.0	18.1
9 18	21 57.83	-11 56.1	1.853	2.782	9.7	16.3	9 18	21 54.82	-15 31.0	1.734	2.653	10.9	18.4
9 28	21 53.67	-13 4.9	1.941	2.792	13.0	16.5	9 28	21 49.98	-15 36.1	1.828	2.668	14.2	18.6
432642	2010 VY ₂₁₃		8 24.7 254°16'	0.1/24.7	17		64952	2001 YU ₁₂₅		8 24.7 32°73'	11.2/16.4	18	
7 20	22 40.55	- 8 14.4	1.628	2.485	15.6	22.9	7 20	22 42.34	-33 26.8	1.308	2.196	16.7	18.2
7 30	22 35.99	- 8 41.4	1.541	2.471	12.0	22.6	7 30	22 37.82	-35 4.7	1.275	2.206	13.8	18.0
8 9	22 28.99	- 9 22.5	1.475	2.457	7.7	22.3	8 9	22 30.21	-36 29.8	1.262	2.217	11.7	17.9
8 19	22 20.12	-10 13.6	1.434	2.442	2.9	22.0	8 19	22 20.51	-37 30.3	1.271	2.228	11.2	18.0
8 29	22 10.35	-11 8.8	1.420	2.427	2.2	21.9	8 29	22 10.27	-37 57.1	1.302	2.240	12.6	18.1
9 8	22 0.90	-12 1.0	1.431	2.411	7.2	22.2	9 8	22 1.13	-37 47.7	1.354	2.252	15.0	18.3
9 18	21 52.91	-12 44.1	1.468	2.396	11.8	22.4	9 18	21 54.35	-37 4.8	1.425	2.265	17.6	18.5
9 28	21 47.31	-13 13.8	1.527	2.379	15.9	22.7	9 28	21 50.72	-35 54.6	1.513	2.279	20.0	18.7
31126	1997 SG ₂		8 24.7 340°68'	0.9/24.2	18		275877	2001 SR ₂₉₄		8 24.7 270°39'	2.2/26.5	18	
7 20	22 43.70	-12 40.4	1.197	2.079	18.4	17.3	7 20	22 37.41	- 2 6.8	1.746	2.584	15.6	21.1
7 30	22 38.93	-12 33.4	1.131	2.074	14.1	17.1	7 30	22 33.51	- 2 32.8	1.651	2.565	12.3	20.9
8 9	22 31.06	-12 35.6	1.083	2.070	8.9	16.8	8 9	22 27.40	- 3 17.8	1.576	2.546	8.4	20.6
8 19	22 20.90	-12 42.4	1.058	2.067	3.2	16.4	8 19	22 19.57	- 4 19.8	1.525	2.526	4.2	20.3
8 29	22 9.81	-12 48.0	1.057	2.064	3.0	16.4	8 29	22 10.87	- 5 33.6	1.500	2.507	2.5	20.1
9 8	21 59.46	-12 47.0	1.079	2.061	8.7	16.7	9 8	22 2.36	- 6 52.2	1.503	2.487	6.4	20.4
9 18	21 51.25	-12 36.1	1.124	2.059	13.9	17.0	9 18	21 55.09	- 8 7.8	1.531	2.466	10.8	20.6
9 28	21 46.22	-12 13.5	1.189	2.057	18.4	17.3	9 28	21 49.97	- 9 13.7	1.582	2.446	14.8	20.8
300520	2007 TW ₂₁₂		8 24.7 261°59'	1.3/25.7	18		91210	1998 XS ₉₆		8 24.7 305°31'	1.6/23.7	18	
7 20	22 38.31	- 5 50.0	1.970	2.812	13.9	21.2	7 20	22 37.43	-10 43.8	1.175	2.063	18.3	19.9
7 30	22 33.79	- 5 58.5	1.885	2.805	10.7	21.0	7 30	22 34.74	-11 21.9	1.082	2.030	14.1	19.5
8 9	22 27.33	- 6 19.3	1.823	2.797	7.1	20.8	8 9	22 28.89	-12 18.8	1.007	1.996	9.0	19.1
8 19	22 19.44	- 6 49.9	1.785	2.790	3.1	20.5	8 19	22 20.33	-13 29.1	0.954	1.962	3.4	18.7
8 29	22 10.92	- 7 26.4	1.775	2.782	1.9	20.4	8 29	22 10.18	-14 43.4	0.923	1.929	3.8	18.6
9 8	22 2.73	- 8 3.9	1.792	2.774	5.8	20.6	9 8	22 0.08	-15 50.4	0.915	1.896	10.1	18.8
9 18	21 55.73	- 8 37.8	1.835	2.766	9.6	20.9	9 18	21 51.73	-16 40.7	0.929	1.863	16.1	19.1
9 28	21 50.66	- 9 4.3	1.902	2.758	13.1	21.1	9 28	21 46.60	-17 8.0	0.960	1.832	21.5	19.3
57045	2001 KY ₃₃		8 24.7 352°00'	1.3/25.7	18		213511	2002 GH ₉₈		8 24.7 83°00'	1.5/25.6	18	
7 20	22 34.06	- 5 0.0	1.497	2.361	16.4	18.9	7 20	22 43.87	- 6 54.5	1.381	2.239	17.8	20.1
7 30	22 31.07	- 5 23.7	1.425	2.356	12.7	18.7	7 30	22 38.52	- 6 47.1	1.320	2.248	13.7	19.8
8 9	22 25.82	- 6 5.0	1.372	2.352	8.3	18.4	8 9	22 30.51	- 6 53.9	1.279	2.257	9.0	19.6
8 19	22 18.92	- 7 0.4	1.343	2.349	3.6	18.1	8 19	22 20.65	- 7 11.9	1.261	2.266	3.9	19.3
8 29	22 11.33	- 8 3.7	1.338	2.346	2.1	18.0	8 29	22 10.14	- 7 36.2	1.268	2.276	2.4	19.3
9 8	22 4.17	- 9 7.3	1.359	2.344	6.7	18.3	9 8	22 0.37	- 8 1.1	1.301	2.285	7.2	19.6
9 18	21 58.48	-10 4.0	1.404	2.343	11.3	18.6	9 18	21 52.49	- 8 21.3	1.358	2.294	11.9	19.9
9 28	21 55.09	-10 48.3	1.470	2.343	15.2	18.8	9 28	21 47.36	- 8 33.1	1.437	2.303	15.9	20.2
476614	2008 SK ₁₃₈		8 24.7 311°87'	2.8/22.5	18		407244	2009 WN ₁₀₄		8 24.7 303°20'	3.7/28.5	17	
7 20	22 37.12	-14 30.7	1.526	2.407	15.2	21.4	7 20	22 33.65	+ 2 50.8	2.225	3.032	13.7	21.2
7 30	22 33.53	-15 20.1	1.448	2.393	11.4	21.1	7 30	22 30.25	+ 2 40.5	2.115	3.004	11.1	21.0
8 9	22 27.48	-16 19.5	1.391	2.378	7.2	20.8	8 9	22 25.13	+ 2 12.5	2.026	2.976	8.2	20.8
8 19	22 19.58	-17 22.3	1.358	2.365	3.3	20.6	8 19	22 18.69	+ 1 27.2	1.960	2.948	5.3	20.5
8 29	22 10.83	-18 20.4	1.350	2.351	4.3	20.6	8 29	22 11.56	+ 0 27.2	1.922	2.920	3.7	20.4
9 8	22 2.47	-19 6.2	1.368	2.338	8.7	20.8	9 8	22 4.53	- 0 42.8	1.911	2.892	5.6	20.5
9 18	21 55.65	-19 34.7	1.409	2.325	13.1	21.0	9 18	21 58.38	- 1 56.9	1.927	2.864	8.9	20.6
9 28	21 51.30	-19 43.7	1.471	2.313	16.9	21.3	9 28	21 53.84	- 3 9.0	1.968	2.836	12.1	20.8
186549	2002 XM ₉		8 24.7 261°72'	3.1/22.3	18		324111	2005 XO ₇₇		8 24.7 274°09'	1.1/23.6	17	
7 20	22 40.41	-15 34.5	1.610	2.485	14.8	20.3	7 20	22 37.20	-11 59.4	2.440	3.293	11.2	21.5
7 30	22 35.88	-16 24.3	1.533	2.475	11.2	20.1	7 30	22 32.76	-12 33.5	2.338	3.268	8.5	21.3
8 9	22 28.90	-17 22.3	1.479	2.465	7.1	19.8	8 9	22 26.63	-13 15.3	2.261	3.243	5.3	21.1
8 19	22 20.09	-18 21.7	1.449	2.454	3.5	19.6	8 19	22 19.23	-14 1.3	2.209	3.217	2.0	20.8
8 29	22 10.46	-19 14.8	1.445	2.444	4.5	19.6	8 29	22 11.20	-14 47.0	2.187	3.191	2.3	20.8
9 8	22 1.26	-19 54.7	1.467	2.433	8.7	19.9	9 8	22 3.32	-15 27.9	2.193	3.165	5.8	21.0
9 18	21 53.63	-20 17.1	1.513	2.422	12.8	20.1	9 18	21 56.34	-16 0.3	2.226	3.139	9.1	21.1
9 28	21 48.46	-20 20.6	1.580	2.412	16.5	20.3	9 28	21 50.94	-16 21.6	2.284	3.112	12.1	21.3
355213	2006 YH ₄₈		8 24.7 110°89'	1.4/26.1	18		322323	2011 GG ₅₅		8 24.7 29°25'	1.0/23.9	16	
7 20	22 38.15	- 5 2.3											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
273957	2007 <i>JK</i> ₄₅		8 24.7 121°30		0°8/23.9 17		68426	2001 <i>RE</i>		8 24.7 254°92		0°8/25.6 18	
7 20	22 39.44	- 9 33.2	1.909	2.763	13.8	20.9	7 20	22 35.36	- 4 2.8	2.364	3.195	12.2	19.7
7 30	22 34.55	-10 25.5	1.847	2.777	10.3	20.7	7 30	22 31.40	- 4 54.9	2.264	3.178	9.4	19.5
8 9	22 27.74	-11 28.7	1.808	2.790	6.4	20.5	8 9	22 25.80	- 6 1.7	2.188	3.161	6.2	19.3
8 19	22 19.60	-12 37.5	1.795	2.803	2.3	20.3	8 19	22 18.97	- 7 20.0	2.138	3.143	2.7	19.0
8 29	22 11.01	-13 45.6	1.809	2.815	2.3	20.3	8 29	22 11.54	- 8 44.9	2.117	3.125	1.5	18.9
9 8	22 2.91	-14 46.5	1.852	2.827	6.4	20.6	9 8	22 4.27	-10 10.2	2.125	3.106	5.2	19.1
9 18	21 56.15	-15 35.7	1.921	2.838	10.1	20.8	9 18	21 57.90	-11 30.0	2.162	3.087	8.7	19.3
9 28	21 51.37	-16 10.5	2.013	2.849	13.2	21.1	9 28	21 53.07	-12 39.5	2.223	3.068	11.9	19.5
220401	2003 <i>SM</i> ₂₃		8 24.7 353°08		2°4/26.4 18		306291	2011 <i>SS</i> ₃₂		8 24.7 334°57		1°5/25.9 18	
7 20	22 36.74	- 4 51.6	1.746	2.595	15.1	18.5	7 20	22 34.90	- 4 24.1	1.642	2.497	15.6	20.5
7 30	22 32.81	- 4 29.8	1.668	2.589	11.8	18.3	7 30	22 31.60	- 4 47.4	1.563	2.489	12.1	20.3
8 9	22 26.81	- 4 20.4	1.611	2.584	8.0	18.1	8 9	22 26.17	- 5 27.7	1.505	2.482	8.1	20.0
8 19	22 19.32	- 4 22.3	1.579	2.580	4.1	17.8	8 19	22 19.15	- 6 21.8	1.470	2.475	3.7	19.8
8 29	22 11.20	- 4 32.5	1.572	2.577	2.7	17.7	8 29	22 11.43	- 7 24.3	1.461	2.469	2.1	19.6
9 8	22 3.48	- 4 47.3	1.591	2.575	6.1	17.9	9 8	22 4.08	- 8 28.1	1.478	2.463	6.4	19.9
9 18	21 57.09	- 5 2.4	1.635	2.574	10.0	18.2	9 18	21 58.07	- 9 26.5	1.520	2.458	10.7	20.1
9 28	21 52.77	- 5 13.8	1.702	2.573	13.6	18.4	9 28	21 54.21	-10 13.8	1.584	2.453	14.5	20.4
313969	2004 <i>SF</i> ₃₈		8 24.7 231°01		0°4/24.3 18		195299	2002 <i>EB</i> ₉₂		8 24.7 103°09		0°2/24.9 18	
7 20	22 39.46	-11 27.3	2.381	3.229	11.6	21.2	7 20	22 39.04	- 7 38.9	1.813	2.665	14.5	20.9
7 30	22 34.31	-11 34.4	2.299	3.225	8.8	21.0	7 30	22 34.37	- 8 11.9	1.749	2.676	11.0	20.7
8 9	22 27.50	-11 47.7	2.240	3.220	5.5	20.8	8 9	22 27.70	- 8 57.2	1.707	2.686	7.0	20.5
8 19	22 19.52	-12 4.3	2.208	3.216	2.0	20.6	8 19	22 19.65	- 9 50.6	1.689	2.697	2.6	20.3
8 29	22 11.07	-12 20.8	2.204	3.211	1.8	20.6	8 29	22 11.12	-10 46.4	1.699	2.707	1.9	20.2
9 8	22 2.94	-12 34.0	2.230	3.206	5.3	20.8	9 8	22 3.08	-11 38.6	1.737	2.717	6.2	20.5
9 18	21 55.86	-12 41.3	2.282	3.201	8.6	21.0	9 18	21 56.42	-12 22.1	1.800	2.727	10.1	20.8
9 28	21 50.44	-12 40.8	2.359	3.196	11.5	21.2	9 28	21 51.81	-12 53.7	1.886	2.736	13.4	21.0
511480	2014 <i>MD</i> ₄₄		8 24.7 41°70		1°9/26.6 18		204931	2008 <i>UJ</i> ₃₄		8 24.7 268°39		0°3/24.9 18	
7 20	22 35.21	- 3 2.5	1.964	2.802	14.1	21.0	7 20	22 37.68	- 7 14.6	1.856	2.708	14.2	20.2
7 30	22 31.31	- 3 19.6	1.900	2.815	10.9	20.8	7 30	22 33.57	- 7 47.1	1.767	2.693	10.9	20.0
8 9	22 25.68	- 3 51.1	1.858	2.828	7.3	20.6	8 9	22 27.38	- 8 33.4	1.699	2.679	7.0	19.7
8 19	22 18.86	- 4 34.3	1.841	2.842	3.6	20.4	8 19	22 19.62	- 9 29.8	1.656	2.664	2.7	19.4
8 29	22 11.64	- 5 24.7	1.850	2.856	2.2	20.4	8 29	22 11.11	-10 30.9	1.641	2.648	1.9	19.3
9 8	22 4.85	- 6 17.1	1.886	2.870	5.3	20.6	9 8	22 2.85	-11 30.1	1.652	2.633	6.3	19.6
9 18	21 59.25	- 7 6.3	1.949	2.885	8.9	20.9	9 18	21 55.82	-12 21.8	1.690	2.618	10.5	19.8
9 28	21 55.44	- 7 48.0	2.036	2.900	12.0	21.1	9 28	21 50.81	-13 1.4	1.750	2.602	14.2	20.0
203104	2000 <i>SJ</i> ₂₄		8 24.7 260°18		17°3/29.1 18		485796	2012 <i>DO</i> ₂₈		8 24.7 201°45		1°1/26.3 18	
7 20	22 55.21	+13 9.0	1.132	1.905	25.9	19.4	7 20	22 34.27	- 3 10.0	3.027	3.845	10.2	22.3
7 30	22 48.70	+16 27.5	1.058	1.897	23.3	19.1	7 30	22 30.15	- 3 49.5	2.936	3.841	7.9	22.1
8 9	22 38.09	+19 26.6	1.000	1.888	20.5	18.9	8 9	22 24.79	- 4 39.8	2.869	3.836	5.2	21.9
8 19	22 23.90	+21 52.0	0.961	1.880	18.2	18.7	8 19	22 18.56	- 5 38.7	2.829	3.831	2.5	21.7
8 29	22 7.59	+23 30.4	0.943	1.871	17.3	18.6	8 29	22 11.95	- 6 42.6	2.819	3.826	1.4	21.7
9 8	21 51.37	+24 16.3	0.945	1.862	18.2	18.7	9 8	22 5.52	- 7 47.6	2.839	3.820	4.0	21.8
9 18	21 37.48	+24 13.9	0.967	1.852	20.4	18.8	9 18	21 59.81	- 8 49.6	2.888	3.813	6.8	22.0
9 28	21 27.68	+23 36.1	1.005	1.843	23.3	18.9	9 28	21 55.29	- 9 45.3	2.963	3.807	9.2	22.2
204506	2005 <i>CR</i> ₅₆		8 24.7 253°62		0°3/24.9 18		12569	1998 <i>VC</i> ₂₉		8 24.7 346°20		0°6/24.1 18	
7 20	22 36.30	- 5 40.7	2.022	2.866	13.5	20.6	7 20	22 34.34	- 9 48.6	2.034	2.895	12.8	17.2
7 30	22 32.36	- 6 37.5	1.929	2.852	10.4	20.4	7 30	22 30.77	-10 28.7	1.958	2.891	9.6	17.0
8 9	22 26.52	- 7 50.0	1.860	2.838	6.7	20.1	8 9	22 25.43	-11 19.1	1.904	2.888	6.0	16.8
8 19	22 19.25	- 9 14.3	1.816	2.823	2.6	19.8	8 19	22 18.84	-12 15.7	1.876	2.885	2.2	16.5
8 29	22 11.29	-10 44.1	1.800	2.808	1.8	19.7	8 29	22 11.73	-13 13.1	1.876	2.882	2.1	16.5
9 8	22 3.55	-12 12.1	1.813	2.792	6.0	20.0	9 8	22 4.95	-14 5.6	1.902	2.880	6.0	16.8
9 18	21 56.88	-13 31.5	1.852	2.776	10.0	20.2	9 18	21 59.29	-14 48.7	1.955	2.878	9.6	17.0
9 28	21 52.05	-14 37.3	1.915	2.760	13.5	20.4	9 28	21 55.38	-15 19.3	2.031	2.876	12.8	17.2
509406	2007 <i>DG</i> ₇₉		8 24.7 268°47		2°0/23.4 18		68934	2002 <i>PA</i> ₁₅		8 24.7 244°03		0°4/25.1 18	
7 20	22 44.06	-14 51.6	1.701	2.566	14.7	22.1	7 20	22 34.51	- 6 50.9	2.579	3.418	11.1	19.8
7 30	22 38.66	-15 8.0	1.612	2.547	11.2	21.9	7 30	22 30.55	- 7 25.4	2.491	3.411	8.5	19.6
8 9	22 30.73	-15 30.8	1.544	2.528	7.1	21.6	8 9	22 25.15	- 8 9.9	2.428	3.404	5.4	19.4
8 19	22 20.86	-15 55.1	1.502	2.509	2.9	21.3	8 19	22 18.71	- 9 1.6	2.390	3.397	2.1	19.2
8 29	22 10.07	-16 15.2	1.486	2.489	3.4	21.3	8 29	22 11.83	- 9 56.6	2.382	3.390	1.4	19.1
9 8	21 59.61	-16 26.0	1.497	2.469	7.9	21.5	9 8	22 5.18	-10 50.4	2.402	3.382	4.7	19.4
9 18	21 50.66	-16 24.3	1.533	2.449	12.2	21.7	9 18	21 59.37	-11 38.9	2.450	3.374	7.9	19.5
9 28	21 44.18	-16 8.7	1.591	2.429	16.1	21.9	9 28	21 54.98	-12 19.0	2.523	3.367	10.7	19.7
370680	2004 <i>EE</i> ₇₇		8 24.7 127°00		1°8/23.3 17		423531	2005 <i>UQ</i> ₁₅₈		8 24.7 38°81		2°3/23.2 17	
7 20	22 42.72	-13 4.4	1.791	2.651	14.3	21.6	7 20	22 40.03	-13 41.9	1.239	2.126	17.6	20.5
7 30	22 37.14	-13 45.2	1.731	2.664	10.7	21.4	7 30	22 35.81	-14 16.9	1.193	2.140	13.1	20.3
8 9	22 29.42	-14 33.8	1.693	2.677	6.6	21.2	8 9	22 28.89	-15 1.3	1.166	2.155	8.2	20.1
8 19	22 20.26	-15 24.6	1.682	2.689	2.6	21.0	8 19	22 20.13	-15 47.9	1.162	2.170	3.3	19.8
8 29	22 10.61	-16 11.3	1.698	2.701	3.1	21.0	8 29	22 10.84	-16 28.8	1.182	2.186	3.9	19.9
9 8	22 1.55	-16 48.6	1.741	2.712	7.1	21.3	9 8	22 2.44	-16 57.1	1.226	2.202	8.7	20.3
9 18	21 54.03	-17 12.9	1.810	2.723	10.9	21.5	9 18	21 56.05	-17 9.2	1.293	2.219	13.2	20.6
9 28	21 48.72	-17 22.7	1.902	2.733	14.1	21.8	9 28	21 52.45	-17 4.1	1.380	2.237	17.0	20.8
265028	2003 <i>MZ</i> ₁₂		8 24.7 324°05		6°7/16.8 18		98047	2000 <i>RC</i> ₃₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
283800	2003 <i>SJ</i> ₈₅		8 24.7 34°57'	9°8'	1.0	16	412453	2014 <i>GR</i> ₃₆		8 24.7 257°21'	3°5'	21.5	18
7 20	22 39.59	+10 9.8	1.344	2.141	21.4	19.4	7 20	22 38.67	-17 51.7	1.906	2.779	13.0	20.4
7 30	22 35.35	+11 25.5	1.293	2.159	18.2	19.3	7 30	22 34.21	-18 47.1	1.835	2.775	9.7	20.2
8 9	22 28.57	+12 12.7	1.258	2.178	14.8	19.1	8 9	22 27.70	-19 47.2	1.788	2.772	6.3	20.0
8 19	22 20.04	+12 28.1	1.243	2.197	11.7	19.0	8 19	22 19.73	-20 45.8	1.766	2.768	3.7	19.8
8 29	22 10.89	+12 12.0	1.249	2.218	9.9	19.0	8 29	22 11.16	-21 36.2	1.771	2.764	4.7	19.9
9 8	22 2.46	+11 29.6	1.279	2.239	10.3	19.0	9 8	22 3.00	-22 12.9	1.803	2.760	8.1	20.0
9 18	21 55.84	+10 29.4	1.331	2.261	12.6	19.2	9 18	21 56.18	-22 32.9	1.859	2.757	11.5	20.3
9 28	21 51.85	+ 9 21.4	1.404	2.284	15.4	19.5	9 28	21 51.42	-22 35.2	1.938	2.753	14.5	20.5
307588	2003 <i>HT</i> ₅₄		8 24.7 172°74'	5°5'	31.8	18	21983	1999 <i>XB</i> ₁₂		8 24.7 186°51'	4°5'	28.7	18
7 20	22 35.38	+11 17.8	2.671	3.412	13.2	21.3	7 20	22 40.30	+ 3 15.4	2.182	2.976	14.3	18.7
7 30	22 31.14	+11 15.7	2.582	3.415	11.2	21.1	7 30	22 35.15	+ 3 37.8	2.097	2.975	11.7	18.5
8 9	22 25.50	+10 55.1	2.513	3.417	9.0	21.0	8 9	22 28.17	+ 3 44.6	2.033	2.975	8.7	18.3
8 19	22 18.84	+10 15.9	2.468	3.419	6.9	20.8	8 19	22 19.89	+ 3 35.6	1.994	2.974	5.9	18.1
8 29	22 11.77	+ 9 19.6	2.450	3.420	5.6	20.8	8 29	22 11.03	+ 3 12.5	1.981	2.973	4.5	18.0
9 8	22 4.93	+ 8 10.1	2.460	3.421	6.0	20.8	9 8	22 2.48	+ 2 38.9	1.997	2.971	6.0	18.1
9 18	21 58.95	+ 6 52.4	2.497	3.421	7.7	20.9	9 18	21 55.03	+ 1 59.2	2.039	2.969	8.9	18.3
9 28	21 54.37	+ 5 32.1	2.561	3.421	9.9	21.1	9 28	21 49.36	+ 1 18.5	2.107	2.967	11.8	18.5
103583	2000 <i>CR</i> ₅		8 24.7 320°71'	0°1'	24.8	18	508218	2015 <i>GN</i> ₃₁		8 24.7 199°27'	0°9'	23.9	17
7 20	22 34.80	- 8 2.8	1.475	2.348	16.1	18.8	7 20	22 40.46	-10 20.3	1.890	2.745	13.9	22.5
7 30	22 31.92	- 8 30.3	1.388	2.326	12.4	18.5	7 30	22 35.55	-11 0.7	1.812	2.742	10.5	22.2
8 9	22 26.62	- 9 13.8	1.321	2.305	8.0	18.2	8 9	22 28.55	-11 51.8	1.757	2.739	6.6	22.0
8 19	22 19.42	-10 9.4	1.276	2.284	3.0	17.8	8 19	22 20.05	-12 49.0	1.727	2.736	2.4	21.7
8 29	22 11.27	-11 10.5	1.257	2.264	2.3	17.7	8 29	22 10.91	-13 46.2	1.726	2.731	2.4	21.7
9 8	22 3.40	-12 9.2	1.262	2.245	7.5	18.0	9 8	22 2.15	-14 37.3	1.752	2.727	6.6	22.0
9 18	21 56.97	-12 58.4	1.291	2.227	12.4	18.2	9 18	21 54.71	-15 17.5	1.804	2.722	10.6	22.2
9 28	21 52.97	-13 32.8	1.341	2.209	16.7	18.4	9 28	21 49.33	-15 44.0	1.879	2.716	14.0	22.4
266606	2008 <i>KR</i> ₃₈		8 24.7 248°54'	2°3'	26.5	18	49190	1998 <i>SL</i> ₈₁		8 24.7 221°20'	0°1'	24.7	18
7 20	22 39.05	- 2 48.2	1.690	2.530	15.9	21.0	7 20	22 40.25	- 8 16.3	1.839	2.690	14.4	19.9
7 30	22 34.75	- 3 2.5	1.605	2.521	12.5	20.8	7 30	22 35.49	- 8 50.1	1.756	2.683	11.0	19.7
8 9	22 28.20	- 3 34.4	1.541	2.511	8.5	20.5	8 9	22 28.58	- 9 36.6	1.695	2.675	7.0	19.4
8 19	22 19.95	- 4 21.5	1.500	2.502	4.3	20.3	8 19	22 20.08	-10 31.7	1.660	2.667	2.6	19.1
8 29	22 10.90	- 5 19.2	1.485	2.492	2.6	20.1	8 29	22 10.88	-11 29.7	1.651	2.659	2.0	19.1
9 8	22 2.18	- 6 20.9	1.497	2.481	6.4	20.3	9 8	22 2.01	-12 24.2	1.671	2.650	6.5	19.3
9 18	21 54.81	- 7 19.7	1.535	2.471	10.8	20.6	9 18	21 54.45	-13 9.8	1.716	2.640	10.6	19.6
9 28	21 49.68	- 8 9.8	1.595	2.460	14.7	20.8	9 28	21 49.00	-13 42.8	1.784	2.630	14.3	19.8
481224	2005 <i>WV</i> ₁₅		8 24.7 165°38'	5°4'	31.7	18	472079	2013 <i>YZ</i> ₁₀₂		8 24.7 267°21'	3°4'	27.3	18
7 20	22 36.00	+11 5.8	2.922	3.657	12.3	22.2	7 20	22 39.19	- 0 54.0	1.700	2.531	16.2	21.5
7 30	22 31.48	+11 19.4	2.834	3.662	10.5	22.0	7 30	22 34.89	- 0 49.3	1.611	2.519	12.9	21.3
8 9	22 25.65	+11 17.0	2.767	3.665	8.5	21.9	8 9	22 28.32	- 1 2.2	1.543	2.507	9.2	21.0
8 19	22 18.89	+10 58.0	2.724	3.669	6.6	21.8	8 19	22 20.03	- 1 31.9	1.498	2.494	5.2	20.8
8 29	22 11.75	+10 23.7	2.708	3.672	5.5	21.7	8 29	22 10.90	- 2 15.0	1.479	2.482	3.5	20.7
9 8	22 4.82	+ 9 36.6	2.720	3.675	5.8	21.8	9 8	22 2.05	- 3 5.9	1.486	2.469	6.6	20.8
9 18	21 58.69	+ 8 40.8	2.759	3.677	7.4	21.9	9 18	21 54.55	- 3 58.1	1.519	2.456	10.7	21.0
9 28	21 53.85	+ 7 40.9	2.824	3.679	9.3	22.0	9 28	21 49.26	- 4 45.6	1.574	2.444	14.6	21.2
32853	Döbereiner		8 24.7 125°85'	2°6'	27.4	18	507918	2014 <i>WD</i> ₄₉₅		8 24.7 155°46'	0°5'	25.2	17
7 20	22 36.79	+ 1 6.9	1.845	2.667	15.5	17.9	7 20	22 40.11	- 5 52.3	1.944	2.785	14.1	22.1
7 30	22 32.71	+ 0 20.6	1.772	2.675	12.2	17.7	7 30	22 35.12	- 6 34.6	1.872	2.792	10.8	21.9
8 9	22 26.71	- 0 46.5	1.720	2.682	8.5	17.5	8 9	22 28.19	- 7 30.7	1.823	2.799	6.9	21.7
8 19	22 19.33	- 2 11.1	1.692	2.690	4.6	17.3	8 19	22 19.89	- 8 36.6	1.799	2.806	2.8	21.4
8 29	22 11.42	- 3 47.2	1.692	2.697	2.7	17.2	8 29	22 11.06	- 9 46.3	1.804	2.811	1.7	21.3
9 8	22 3.91	- 5 26.8	1.720	2.704	5.8	17.4	9 8	22 2.64	-10 53.4	1.836	2.816	5.9	21.6
9 18	21 57.67	- 7 1.9	1.774	2.710	9.6	17.6	9 18	21 55.51	-11 52.3	1.896	2.821	9.7	21.9
9 28	21 53.39	- 8 26.1	1.853	2.716	13.0	17.9	9 28	21 50.36	-12 39.2	1.979	2.825	13.1	22.1
430182	2013 <i>TC</i> ₁₀₆		8 24.7 136°02'	1°3'	23.7	17	504388	2007 <i>VG</i> ₂₀₀		8 24.7 31°83'	6°2'	21.1	17
7 20	22 42.69	-12 12.6	1.799	2.657	14.3	21.9	7 20	22 41.79	-20 47.0	1.061	1.964	18.6	21.0
7 30	22 37.16	-12 44.3	1.735	2.667	10.7	21.7	7 30	22 37.67	-21 43.7	1.019	1.972	14.1	20.7
8 9	22 29.49	-13 24.3	1.693	2.676	6.7	21.5	8 9	22 30.32	-22 42.4	0.995	1.982	9.5	20.5
8 19	22 20.35	-14 7.6	1.677	2.685	2.5	21.2	8 19	22 20.73	-23 32.5	0.992	1.992	6.3	20.4
8 29	22 10.69	-14 48.5	1.689	2.693	2.7	21.3	8 29	22 10.50	-24 3.7	1.012	2.004	7.7	20.5
9 8	22 1.59	-15 21.7	1.727	2.701	6.9	21.6	9 8	22 1.35	-24 10.1	1.054	2.015	11.8	20.8
9 18	21 53.98	-15 43.5	1.792	2.709	10.7	21.8	9 18	21 54.66	-23 50.9	1.116	2.028	16.1	21.0
9 28	21 48.59	-15 52.2	1.880	2.716	14.0	22.0	9 28	21 51.24	-23 9.0	1.197	2.041	19.9	21.3
507978	2015 <i>BP</i> ₁₀₀		8 24.7 212°16'	0°6'	24.2	18	127600	2003 <i>BT</i> ₁₈		8 24.7 3°67'	0°4'	24.5	18
7 20	22 39.89	- 9 1.4	1.667	2.526	15.2	21.2	7 20	22 46.82	-13 18.1	1.387	2.256	17.1	18.2
7 30	22 35.38	- 9 45.3	1.590	2.522	11.5	20.9	7 30	22 40.92	-12 47.2	1.319	2.255	13.1	17.9
8 9	22 28.57	-10 42.8	1.536	2.518	7.3	20.7	8 9	22 32.18	-12 21.8	1.272	2.255	8.3	17.7
8 19	22 20.08	-11 49.0	1.506	2.514	2.6	20.4	8 19	22 21.43	-11 58.7	1.248	2.256	3.0	17.4
8 29	22 10.86	-12 56.7	1.503	2.510	2.4	20.3	8 29	22 9.94	-11 34.8	1.250	2.257	2.5	17.3
9 8	22 2.04	-13 58.5	1.527	2.505	7.1	20.6	9 8	21 59.19	-11 7.1	1.277	2.258	7.7	17.7
9 18	21 54.69	-14 48.5	1.576	2.499	11.5	20.9	9 18	21 50.44	-10 34.1	1.329	2.261	12.5	17.9
9 28	21 49.63	-15 23.1	1.647	2.493	15.2	21.1	9 28	21 44.61	- 9 54.9	1.403	2.263	16.6	18.2
323548	2004 <i>SY</i> ₂₅		8 24.7 320°21'	9°4'	16.6	18	324241	2006 <i>BJ</i> ₁₅₅					

EPHEMERIDES

8 24.7

8 24.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
347893	2002 <i>TO</i> ₂₈₇		8 24.7 330°15	8°6/31.2	18		134952	2001 <i>CB</i> ₁₂		8 24.7 268°00	2°3/23.3	18	
7 20	22 32.69	+ 8 58.1	1.487	2.293	19.3	19.6	7 20	22 43.83	-14 53.5	1.479	2.352	16.0	19.9
7 30	22 30.35	+ 9 42.7	1.395	2.271	16.6	19.4	7 30	22 38.72	-15 14.1	1.404	2.343	12.2	19.6
8 9	22 25.67	+10 2.0	1.320	2.250	13.5	19.1	8 9	22 30.90	-15 42.1	1.349	2.334	7.7	19.3
8 19	22 19.12	+ 9 52.5	1.264	2.229	10.4	18.9	8 19	22 21.04	-16 11.7	1.318	2.325	3.2	19.1
8 29	22 11.57	+ 9 13.7	1.231	2.210	8.6	18.8	8 29	22 10.31	-16 36.3	1.313	2.316	3.8	19.1
9 8	22 4.22	+ 8 9.5	1.221	2.192	9.4	18.8	9 8	22 0.10	-16 49.9	1.333	2.307	8.5	19.3
9 18	21 58.21	+ 6 47.7	1.233	2.174	12.3	18.9	9 18	21 51.66	-16 49.5	1.378	2.298	13.1	19.6
9 28	21 54.58	+ 5 18.8	1.266	2.158	15.9	19.0	9 28	21 45.95	-16 33.8	1.443	2.288	17.0	19.8
505123	2012 <i>FY</i> ₂₆		8 24.7 229°22	4°8/21.5	17		105634	2000 <i>SX</i> ₁₂		8 24.7 13°11	1°3/25.8	18	
7 20	22 45.26	-20 28.6	1.548	2.424	15.3	21.7	7 20	22 36.34	- 6 8.8	1.596	2.455	15.7	18.8
7 30	22 39.69	-21 12.5	1.479	2.418	11.7	21.5	7 30	22 32.66	- 6 14.4	1.530	2.459	12.1	18.6
8 9	22 31.42	-21 58.8	1.431	2.413	7.8	21.2	8 9	22 26.82	- 6 34.1	1.484	2.463	8.0	18.4
8 19	22 21.17	-22 39.9	1.407	2.407	4.9	21.1	8 19	22 19.46	- 7 4.8	1.462	2.467	3.5	18.1
8 29	22 10.13	-23 7.9	1.410	2.401	6.1	21.1	8 29	22 11.52	- 7 41.8	1.465	2.473	2.0	18.0
9 8	21 59.69	-23 17.4	1.438	2.394	9.8	21.3	9 8	22 4.09	- 8 19.3	1.494	2.479	6.3	18.3
9 18	21 51.10	-23 6.7	1.490	2.387	13.7	21.5	9 18	21 58.11	- 8 52.0	1.548	2.486	10.5	18.6
9 28	21 45.24	-22 36.6	1.562	2.380	17.2	21.8	9 28	21 54.32	- 9 15.7	1.624	2.494	14.2	18.8
180364	2003 <i>YG</i> ₁₀₆		8 24.7 270°38	0°1/24.8	18		7137	Ageo		8 24.7 242°32	0°9/25.6	18	
7 20	22 41.55	- 9 9.6	1.535	2.396	16.1	20.7	7 20	22 38.12	- 6 27.9	2.075	2.917	13.3	17.6
7 30	22 36.93	- 9 21.7	1.451	2.384	12.4	20.4	7 30	22 33.62	- 6 42.5	1.992	2.912	10.2	17.4
8 9	22 29.74	- 9 46.4	1.389	2.371	8.0	20.1	8 9	22 27.28	- 7 8.6	1.931	2.907	6.7	17.1
8 19	22 20.59	-10 19.9	1.350	2.357	3.0	19.8	8 19	22 19.62	- 7 43.4	1.896	2.901	2.8	16.9
8 29	22 10.51	-10 56.7	1.336	2.344	2.2	19.7	8 29	22 11.38	- 8 23.0	1.888	2.896	1.7	16.8
9 8	22 0.81	-11 30.4	1.349	2.331	7.4	20.0	9 8	22 3.46	- 9 2.5	1.909	2.890	5.5	17.1
9 18	21 52.68	-11 55.8	1.386	2.317	12.1	20.3	9 18	21 56.67	- 9 37.6	1.955	2.885	9.2	17.3
9 28	21 47.09	-12 9.2	1.445	2.303	16.3	20.5	9 28	21 51.70	-10 4.8	2.026	2.879	12.5	17.5
267264	2001 <i>QW</i> ₂₃₀		8 24.7 221°83	6°0/30.7	16		481189	2005 <i>UP</i> ₃₄₇		8 24.7 331°35	8°5/16.9	16	
7 20	22 38.30	+12 1.8	1.346	2.136	21.8	20.2	7 20	22 39.91	-31 42.9	1.803	2.680	13.4	20.6
7 30	22 34.81	+10 45.0	1.257	2.130	18.3	20.0	7 30	22 35.52	-32 57.1	1.743	2.670	11.0	20.4
8 9	22 28.59	+ 8 43.1	1.186	2.123	14.0	19.7	8 9	22 28.72	-34 4.5	1.705	2.661	9.1	20.3
8 19	22 20.22	+ 5 55.8	1.136	2.116	9.3	19.4	8 19	22 20.19	-34 56.5	1.690	2.652	8.6	20.2
8 29	22 10.78	+ 2 31.2	1.111	2.108	6.1	19.2	8 29	22 10.98	-35 25.6	1.700	2.643	9.8	20.3
9 8	22 1.69	- 1 13.8	1.114	2.099	8.0	19.3	9 8	22 2.34	-35 27.9	1.734	2.635	12.1	20.4
9 18	21 54.27	- 4 58.1	1.145	2.090	12.7	19.5	9 18	21 55.33	-35 3.2	1.789	2.627	14.7	20.6
9 28	21 49.60	- 8 22.8	1.201	2.081	17.5	19.8	9 28	21 50.77	-34 14.4	1.863	2.620	17.1	20.7
160395	2004 <i>PF</i> ₇₄		8 24.7 228°85	2°6/21.7	18		69963	1998 <i>VP</i> ₃₅		8 24.7 254°52	5°2/19.6	18	
7 20	22 35.72	-15 36.1	2.332	3.197	11.2	20.6	7 20	22 39.79	-23 21.0	2.061	2.934	12.2	18.6
7 30	22 31.67	-16 43.1	2.256	3.193	8.4	20.4	7 30	22 35.08	-24 27.8	1.986	2.922	9.4	18.4
8 9	22 25.97	-17 56.3	2.204	3.188	5.3	20.2	8 9	22 28.30	-25 35.5	1.935	2.911	6.7	18.3
8 19	22 19.09	-19 10.3	2.180	3.184	2.8	20.0	8 19	22 20.02	-26 37.1	1.910	2.899	5.2	18.1
8 29	22 11.71	-20 19.1	2.184	3.179	3.7	20.1	8 29	22 11.09	-27 25.8	1.912	2.887	6.4	18.2
9 8	22 4.62	-21 17.4	2.216	3.174	6.7	20.2	9 8	22 2.51	-27 56.5	1.940	2.874	9.1	18.3
9 18	21 58.52	-22 1.7	2.275	3.170	9.8	20.4	9 18	21 55.21	-28 7.0	1.992	2.862	12.1	18.5
9 28	21 54.06	-22 30.0	2.356	3.165	12.4	20.6	9 28	21 49.95	-27 57.5	2.066	2.849	14.8	18.7
280096	2002 <i>ED</i> ₁₀₅		8 24.7 114°35	2°2/22.6	18		485200	2010 <i>UN</i> ₁₉		8 24.7 316°21	6°6/1.2	18	
7 20	22 38.10	-12 35.1	1.820	2.686	13.8	20.5	7 20	22 34.31	+11 34.3	2.208	2.964	15.3	20.9
7 30	22 33.76	-13 47.4	1.758	2.695	10.3	20.3	7 30	22 30.71	+11 44.5	2.120	2.961	13.0	20.8
8 9	22 27.40	-15 9.5	1.719	2.704	6.4	20.1	8 9	22 25.43	+11 33.1	2.051	2.957	10.6	20.6
8 19	22 19.63	-16 34.7	1.705	2.712	2.7	19.9	8 19	22 18.93	+10 59.3	2.004	2.954	8.2	20.4
8 29	22 11.33	-17 55.1	1.720	2.721	3.6	20.0	8 29	22 11.90	+10 4.3	1.982	2.951	6.7	20.3
9 8	22 3.51	-19 3.8	1.761	2.729	7.4	20.2	9 8	22 5.11	+ 8 52.4	1.986	2.948	7.1	20.4
9 18	21 57.04	-19 56.0	1.828	2.736	11.1	20.5	9 18	21 59.33	+ 7 29.6	2.017	2.945	9.0	20.5
9 28	21 52.64	-20 29.7	1.918	2.744	14.2	20.7	9 28	21 55.18	+ 6 3.1	2.072	2.943	11.5	20.6
263013	2007 <i>EF</i> ₁₆₇		8 24.7 115°64	1°3/26.3	18		23457	Beiderbecke		8 24.7 188°78	4°4/19.8	18	
7 20	22 35.50	- 3 44.5	2.496	3.323	11.8	21.2	7 20	22 39.85	-21 15.9	2.293	3.159	11.3	18.8
7 30	22 31.26	- 4 10.5	2.422	3.332	9.1	21.0	7 30	22 34.86	-22 35.4	2.224	3.158	8.6	18.6
8 9	22 25.58	- 4 48.0	2.372	3.341	6.0	20.9	8 9	22 28.03	-23 57.0	2.180	3.157	5.9	18.5
8 19	22 18.92	- 5 34.5	2.347	3.350	2.9	20.7	8 19	22 19.89	-25 14.3	2.163	3.155	4.4	18.4
8 29	22 11.89	- 6 26.3	2.352	3.358	1.6	20.6	8 29	22 11.20	-26 20.5	2.175	3.152	5.6	18.4
9 8	22 5.17	- 7 19.0	2.385	3.367	4.5	20.8	9 8	22 2.85	-27 10.7	2.214	3.149	8.1	18.6
9 18	21 59.39	- 8 8.4	2.445	3.375	7.6	21.0	9 18	21 55.65	-27 42.2	2.279	3.145	10.9	18.8
9 28	21 55.05	- 8 51.1	2.532	3.383	10.4	21.2	9 28	21 50.27	-27 54.8	2.366	3.141	13.4	18.9
104532	2000 <i>GJ</i> ₅₄		8 24.7 201°10	0°2/24.9	18		390326	2013 <i>BR</i> ₁₇		8 24.7 280°71	1°9/28.3	16	
7 20	22 40.24	- 7 42.8	1.852	2.701	14.4	21.1	7 20	22 29.56	+ 0 45.9	4.417	5.209	7.6	21.8
7 30	22 35.43	- 8 14.2	1.773	2.699	11.0	20.9	7 30	22 26.30	+ 0 39.5	4.324	5.206	6.1	21.6
8 9	22 28.53	- 8 58.2	1.716	2.695	7.0	20.6	8 9	22 22.25	+ 0 25.3	4.254	5.202	4.4	21.5
8 19	22 20.09	- 9 51.1	1.685	2.692	2.7	20.4	8 19	22 17.67	+ 0 4.2	4.212	5.199	2.7	21.4
8 29	22 11.01	-10 47.2	1.680	2.688	1.9	20.3	8 29	22 12.87	- 0 22.5	4.198	5.196	1.9	21.3
9 8	22 2.29	-11 40.4	1.704	2.683	6.3	20.6	9 8	22 8.20	- 0 52.7	4.214	5.193	2.9	21.4
9 18	21 54.90	-12 25.3	1.753	2.678	10.4	20.8	9 18	22 3.97	- 1 24.5	4.259	5.189	4.6	21.5
9 28	21 49.59	-12 58.4	1.826	2.673	13.9	21.0	9 28	22 0.50	- 1 55.6	4.331	5.186	6.3	21.6
122702	2000 <i>SV</i> ₂₄		8 24.7 301°18	0°2/24.9	18	R	40048	1998 <i>KA</i> ₃₆		8 24.7 201°98			

EPHEMERIDES

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8 24.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
111963	2002 <i>GH</i> ₇₈		8 24.7 44°86	3°2/23.0	17		34560	2000 <i>SF</i> ₂₈₀		8 24.8 99°71	4°6/29.5	18	
7 20	22 44.75	-16 33.1	1.172	2.060	18.3	19.0	7 20	22 37.36	+ 4 55.8	2.262	3.050	14.0	17.7
7 30	22 39.59	-16 51.3	1.125	2.072	13.8	18.7	7 30	22 32.83	+ 5 7.1	2.188	3.061	11.5	17.5
8 9	22 31.40	-17 15.1	1.097	2.084	8.7	18.5	8 9	22 26.68	+ 5 1.5	2.134	3.071	8.7	17.4
8 19	22 21.18	-17 37.3	1.091	2.097	3.9	18.3	8 19	22 19.40	+ 4 39.6	2.105	3.081	6.0	17.2
8 29	22 10.38	-17 50.7	1.109	2.111	4.7	18.3	8 29	22 11.70	+ 4 3.3	2.102	3.091	4.6	17.2
9 8	22 0.62	-17 50.1	1.151	2.125	9.4	18.7	9 8	22 4.33	+ 3 16.8	2.127	3.101	5.8	17.3
9 18	21 53.16	-17 33.8	1.215	2.139	14.0	19.0	9 18	21 58.02	+ 2 24.9	2.179	3.111	8.3	17.4
9 28	21 48.82	-17 2.2	1.299	2.154	18.0	19.3	9 28	21 53.35	+ 1 32.8	2.256	3.121	11.0	17.6
10380	Berwald		8 24.7 288°75	0°7/24.1	18		61193	2000 <i>OQ</i> ₁		8 24.8 215°54	3°7/27.6	18	
7 20	22 36.89	-10 5.3	1.956	2.815	13.3	18.2	7 20	22 41.05	+ 0 22.3	1.648	2.473	16.9	19.7
7 30	22 32.82	-10 42.3	1.877	2.809	10.1	18.0	7 30	22 36.36	+ 0 19.7	1.564	2.467	13.5	19.5
8 9	22 26.85	-11 29.7	1.821	2.804	6.3	17.7	8 9	22 29.32	- 0 2.8	1.500	2.461	9.6	19.3
8 19	22 19.49	-12 23.3	1.791	2.799	2.3	17.5	8 19	22 20.50	- 0 44.0	1.460	2.455	5.6	19.0
8 29	22 11.55	-13 17.6	1.788	2.794	2.2	17.4	8 29	22 10.85	- 1 40.1	1.446	2.448	3.7	18.9
9 8	22 3.94	-14 6.8	1.812	2.789	6.3	17.7	9 8	22 1.55	- 2 44.6	1.458	2.441	6.7	19.1
9 18	21 57.54	-14 46.3	1.862	2.784	10.1	17.9	9 18	21 53.69	- 3 50.0	1.495	2.433	10.9	19.3
9 28	21 53.03	-15 13.0	1.935	2.780	13.4	18.1	9 28	21 48.15	- 4 49.6	1.556	2.424	14.8	19.5
170888	2004 <i>RK</i> ₂₄₉		8 24.7 329°80	18°7/28.5	16		285407	1999 <i>US</i> ₂₈		8 24.8 244°96	0°1/24.7	18	
7 20	22 47.97	+10 57.6	0.939	1.755	27.3	18.9	7 20	22 38.66	- 8 34.1	2.044	2.893	13.2	21.9
7 30	22 43.61	+14 39.3	0.871	1.741	24.5	18.6	7 30	22 34.16	- 9 6.0	1.955	2.881	10.1	21.7
8 9	22 35.13	+18 3.5	0.819	1.728	21.7	18.4	8 9	22 27.73	- 9 49.3	1.889	2.869	6.4	21.5
8 19	22 23.01	+20 53.9	0.783	1.716	19.5	18.2	8 19	22 19.86	-10 40.2	1.848	2.856	2.4	21.2
8 29	22 8.72	+22 55.1	0.766	1.706	18.7	18.1	8 29	22 11.33	-11 33.8	1.836	2.843	1.8	21.1
9 8	21 54.53	+23 59.5	0.767	1.696	19.7	18.2	9 8	22 3.06	-12 24.5	1.851	2.830	6.0	21.4
9 18	21 42.77	+24 10.4	0.784	1.688	22.0	18.3	9 18	21 55.92	-13 7.3	1.893	2.816	9.9	21.6
9 28	21 35.29	+23 40.9	0.816	1.681	24.9	18.4	9 28	21 50.66	-13 38.9	1.959	2.802	13.2	21.8
440003	2002 <i>DE</i> ₁₅		8 24.7 201°64	1°5/26.2	18		356404	2010 <i>RQ</i> ₁₆₉		8 24.8 110°81	0°1/24.7	18	
7 20	22 38.93	- 5 14.1	2.339	3.169	12.4	21.1	7 20	22 37.08	- 8 18.9	2.221	3.068	12.4	21.4
7 30	22 34.00	- 5 11.0	2.256	3.168	9.6	20.9	7 30	22 32.65	- 8 52.2	2.152	3.076	9.3	21.2
8 9	22 27.42	- 5 18.0	2.196	3.166	6.4	20.7	8 9	22 26.57	- 9 35.4	2.106	3.085	5.9	21.0
8 19	22 19.68	- 5 33.2	2.162	3.164	3.1	20.5	8 19	22 19.37	-10 24.8	2.086	3.093	2.2	20.8
8 29	22 11.45	- 5 54.0	2.156	3.163	1.9	20.4	8 29	22 11.75	-11 15.8	2.094	3.101	1.6	20.8
9 8	22 3.53	- 6 16.8	2.179	3.161	5.0	20.6	9 8	22 4.50	-12 3.6	2.130	3.109	5.3	21.0
9 18	21 56.64	- 6 38.3	2.229	3.159	8.3	20.8	9 18	21 58.34	-12 44.1	2.194	3.117	8.7	21.3
9 28	21 51.38	- 6 55.4	2.304	3.157	11.2	21.0	9 28	21 53.85	-13 14.4	2.282	3.125	11.6	21.5
278232	2007 <i>EZ</i> ₁₀₉		8 24.7 186°55	0°4/24.4	17		471607	2012 <i>SG</i> ₃₀		8 24.8 311°94	3°9/22.4	18	
7 20	22 39.68	- 8 48.3	2.020	2.868	13.4	22.2	7 20	22 45.44	-20 9.2	1.616	2.489	14.9	21.1
7 30	22 34.85	- 9 31.6	1.942	2.868	10.1	22.0	7 30	22 39.70	-20 24.0	1.545	2.483	11.4	20.8
8 9	22 28.09	-10 26.3	1.887	2.868	6.4	21.8	8 9	22 31.39	-20 39.5	1.495	2.478	7.4	20.6
8 19	22 19.95	-11 28.0	1.859	2.866	2.3	21.5	8 19	22 21.23	-20 49.9	1.470	2.472	4.2	20.4
8 29	22 11.24	-12 31.1	1.858	2.865	2.0	21.5	8 29	22 10.38	-20 49.5	1.471	2.467	5.1	20.4
9 8	22 2.87	-13 29.5	1.886	2.862	6.1	21.7	9 8	22 0.14	-20 34.3	1.499	2.462	8.8	20.6
9 18	21 55.72	-14 18.4	1.940	2.860	9.9	22.0	9 18	21 51.68	-20 3.7	1.550	2.457	12.7	20.9
9 28	21 50.48	-14 54.4	2.018	2.856	13.1	22.2	9 28	21 45.83	-19 18.6	1.624	2.453	16.2	21.1
70435	1999 <i>TU</i> ₄		8 24.7 5°88	11°2/19.2	18		46852	1998 <i>QC</i> ₄₁		8 24.8 40°99	0°5/25.0	18	
7 20	22 47.70	-34 48.9	1.231	2.114	17.9	17.7	7 20	22 42.61	- 9 45.7	1.573	2.433	15.9	17.6
7 30	22 42.14	-35 29.5	1.186	2.114	14.9	17.5	7 30	22 37.36	- 9 34.2	1.512	2.442	12.1	17.4
8 9	22 33.14	-35 54.5	1.159	2.116	12.3	17.4	8 9	22 29.78	- 9 32.4	1.471	2.452	7.7	17.1
8 19	22 21.83	-35 53.5	1.153	2.118	11.2	17.3	8 19	22 20.59	- 9 37.2	1.455	2.462	3.0	16.9
8 29	22 9.97	-35 18.8	1.170	2.122	12.2	17.4	8 29	22 10.88	- 9 44.7	1.465	2.472	2.0	16.8
9 8	21 59.42	-34 9.9	1.207	2.128	14.7	17.6	9 8	22 1.82	- 9 50.5	1.501	2.483	6.7	17.2
9 18	21 51.57	-32 31.9	1.266	2.134	17.7	17.8	9 18	21 54.43	- 9 51.4	1.562	2.494	10.9	17.4
9 28	21 47.22	-30 32.5	1.342	2.142	20.5	18.0	9 28	21 49.46	- 9 44.9	1.646	2.506	14.6	17.7
188511	2004 <i>RR</i> ₄₁		8 24.7 337°75	1°4/23.6	18		447807	2007 <i>TD</i> ₁₃₄		8 24.8 257°49	17°6/12.5	15	
7 20	22 35.24	-12 12.3	1.741	2.614	14.0	20.2	7 20	23 2.20	-46 7.6	1.233	2.078	20.3	21.9
7 30	22 31.84	-12 43.9	1.663	2.603	10.6	20.0	7 30	22 54.74	-48 0.6	1.183	2.063	18.6	21.7
8 9	22 26.36	-13 25.0	1.607	2.593	6.6	19.7	8 9	22 42.09	-49 30.1	1.150	2.047	17.7	21.6
8 19	22 19.36	-14 11.0	1.575	2.583	2.5	19.4	8 19	22 25.44	-50 18.1	1.135	2.030	17.9	21.5
8 29	22 11.69	-14 55.9	1.569	2.574	2.8	19.4	8 29	22 7.34	-50 10.5	1.139	2.013	19.3	21.6
9 8	22 4.38	-15 33.8	1.589	2.565	7.0	19.7	9 8	21 50.87	-49 5.0	1.161	1.995	21.4	21.7
9 18	21 58.38	-16 0.2	1.634	2.558	11.1	19.9	9 18	21 38.41	-47 9.2	1.199	1.977	23.8	21.8
9 28	21 54.45	-16 12.5	1.700	2.551	14.6	20.1	9 28	21 31.17	-44 36.1	1.251	1.959	26.2	21.9
136994	1998 <i>SX</i> ₅₆		8 24.7 305°26	2°2/23.3	18		433411	2013 <i>TF</i> ₄₃		8 24.8 245°97	0°7/24.2	17	
7 20	22 39.40	-13 22.2	1.369	2.251	16.6	18.9	7 20	22 41.73	-10 33.6	1.765	2.622	14.6	21.8
7 30	22 35.83	-13 52.0	1.278	2.223	12.7	18.6	7 30	22 36.80	-10 58.2	1.679	2.610	11.1	21.6
8 9	22 29.40	-14 33.4	1.208	2.195	8.1	18.3	8 9	22 29.57	-11 33.5	1.615	2.597	7.1	21.3
8 19	22 20.65	-15 20.8	1.159	2.167	3.3	17.9	8 19	22 20.61	-12 15.3	1.576	2.584	2.6	21.0
8 29	22 10.65	-16 6.4	1.135	2.140	3.9	17.9	8 29	22 10.83	-12 57.9	1.564	2.571	2.4	21.0
9 8	22 0.85	-16 42.1	1.136	2.112	9.2	18.1	9 8	22 1.38	-13 35.3	1.579	2.557	7.0	21.2
9 18	21 52.70	-17 1.8	1.159	2.086	14.4	18.3	9 18	21 53.31	-14 3.0	1.620	2.542	11.3	21.5
9 28	21 47.39	-17 2.7	1.201	2.059	18.9	18.5	9 28	21 47.49	-14 17.9	1.683	2.528	15.0	21.7
3192	A ¹ Hearn		8 24.7 181°32	1°6/23.3	18		93297	2000 <i>ST</i> ₂₀₃		8 24.			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
355682	2008 <i>FG</i> ₄	8 24.8 218°89	0°8/24.1	18			499514	2010 <i>OO</i> ₁₂₇	8 24.8 245°69	0°5/3.4	17		
7 20	22 39.69	-12 7.7	2.201	3.054	12.2	20.7	7 20	22 17.43	+14 4.7	44.478	45.154	1.0	21.3
7 30	22 34.70	-12 22.9	2.122	3.051	9.2	20.5	7 30	22 16.83	+14 4.0	44.377	45.151	0.8	21.2
8 9	22 27.93	-12 44.7	2.067	3.049	5.8	20.3	8 9	22 16.17	+14 2.2	44.299	45.149	0.7	21.2
8 19	22 19.91	-13 9.5	2.039	3.047	2.1	20.0	8 19	22 15.47	+13 59.3	44.244	45.146	0.6	21.2
8 29	22 11.39	-13 33.5	2.038	3.044	2.1	20.0	8 29	22 14.75	+13 55.3	44.216	45.143	0.5	21.2
9 8	22 3.23	-13 52.8	2.066	3.041	5.8	20.2	9 8	22 14.04	+13 50.5	44.215	45.141	0.5	21.2
9 18	21 56.20	-14 4.4	2.120	3.039	9.2	20.5	9 18	22 13.37	+13 44.9	44.241	45.138	0.6	21.2
9 28	21 50.96	-14 6.6	2.199	3.036	12.2	20.7	9 28	22 12.76	+13 38.7	44.293	45.135	0.7	21.2
268273	2005 <i>PA</i> ₁	8 24.8 310°33	2°9/23.1	18			520531	2014 <i>ME</i> ₇₄	8 24.8 35°77	4°0/28.3	18		
7 20	22 43.16	-16 34.7	1.391	2.271	16.4	19.9	7 20	22 37.82	+ 1 17.4	2.084	2.895	14.3	20.7
7 30	22 38.46	-16 47.3	1.314	2.257	12.5	19.6	7 30	22 33.34	+ 1 39.5	2.008	2.900	11.5	20.5
8 9	22 30.90	-17 5.2	1.256	2.243	8.0	19.3	8 9	22 27.11	+ 1 46.7	1.955	2.906	8.4	20.4
8 19	22 21.16	-17 22.6	1.222	2.229	3.6	19.0	8 19	22 19.64	+ 1 39.2	1.925	2.912	5.4	20.2
8 29	22 10.44	-17 32.8	1.213	2.215	4.3	19.0	8 29	22 11.68	+ 1 19.1	1.922	2.918	4.0	20.1
9 8	22 0.22	-17 30.5	1.229	2.202	9.0	19.3	9 8	22 4.08	+ 0 50.2	1.946	2.924	5.8	20.2
9 18	21 51.87	-17 13.1	1.267	2.190	13.8	19.5	9 18	21 57.62	+ 0 16.8	1.996	2.931	8.7	20.4
9 28	21 46.39	-16 40.3	1.327	2.178	17.9	19.7	9 28	21 52.93	- 0 16.3	2.071	2.938	11.7	20.6
509782	2008 <i>UF</i> ₁₇₈	8 24.8 161°86	5°7/30.7	17			237557	2000 <i>WF</i> ₁₈₂	8 24.8 244°83	1°8/22.9	18		
7 20	22 38.23	+ 8 28.5	2.186	2.954	15.0	21.8	7 20	22 38.24	-11 41.0	2.117	2.974	12.5	20.8
7 30	22 33.63	+ 8 35.1	2.104	2.959	12.6	21.6	7 30	22 33.88	-12 49.7	2.026	2.958	9.4	20.6
8 9	22 27.28	+ 8 21.6	2.041	2.963	9.8	21.4	8 9	22 27.61	-14 9.6	1.958	2.941	5.9	20.4
8 19	22 19.68	+ 7 47.9	2.002	2.967	7.2	21.3	8 19	22 19.89	-15 35.3	1.916	2.924	2.4	20.1
8 29	22 11.56	+ 6 55.8	1.990	2.970	5.7	21.2	8 29	22 11.45	-16 59.9	1.904	2.906	3.1	20.1
9 8	22 3.75	+ 5 50.1	2.004	2.973	6.5	21.3	9 8	22 3.20	-18 16.5	1.920	2.887	6.8	20.3
9 18	21 57.02	+ 4 36.6	2.046	2.976	8.9	21.4	9 18	21 56.01	-19 19.7	1.962	2.868	10.5	20.5
9 28	21 52.03	+ 3 21.9	2.113	2.978	11.6	21.6	9 28	21 50.65	-20 6.2	2.028	2.849	13.7	20.7
476127	2007 <i>TC</i> ₂₂₇	8 24.8 285°50	6°6/30.9	18			250063	2002 <i>EC</i> ₄₀	8 24.8 156°00	0°5/24.3	18		
7 20	22 35.87	+ 9 7.1	1.948	2.726	16.3	22.1	7 20	22 38.10	-10 41.7	2.554	3.399	11.0	21.3
7 30	22 32.24	+ 9 22.7	1.849	2.709	13.9	21.9	7 30	22 33.25	-11 4.7	2.479	3.403	8.3	21.1
8 9	22 26.65	+ 9 16.0	1.769	2.692	11.1	21.7	8 9	22 26.90	-11 34.5	2.428	3.408	5.2	20.9
8 19	22 19.53	+ 8 45.5	1.711	2.675	8.3	21.5	8 19	22 19.53	-12 8.0	2.404	3.412	1.9	20.7
8 29	22 11.64	+ 7 52.3	1.678	2.658	6.7	21.4	8 29	22 11.77	-12 41.4	2.409	3.416	1.7	20.7
9 8	22 3.92	+ 6 40.7	1.671	2.640	7.5	21.4	9 8	22 4.33	-13 11.2	2.443	3.419	5.0	20.9
9 18	21 57.28	+ 5 17.4	1.689	2.623	10.1	21.5	9 18	21 57.85	-13 34.5	2.505	3.422	8.0	21.1
9 28	21 52.54	+ 3 50.4	1.732	2.606	13.2	21.6	9 28	21 52.88	-13 49.2	2.591	3.425	10.7	21.3
221921	2009 <i>MD</i> ₃	8 24.8 69°18	2°3/22.2	18			511500	2014 <i>OO</i> ₁₁₃	8 24.8 99°47	1°4/23.3	18		
7 20	22 35.75	-14 20.3	2.136	3.003	12.0	20.5	7 20	22 36.79	-12 43.8	2.376	3.232	11.3	21.3
7 30	22 31.80	-15 24.0	2.070	3.008	8.9	20.3	7 30	22 32.34	-13 26.9	2.312	3.244	8.4	21.2
8 9	22 26.12	-16 34.7	2.027	3.012	5.6	20.1	8 9	22 26.36	-14 16.3	2.272	3.255	5.2	21.0
8 19	22 19.25	-17 46.7	2.011	3.017	2.6	19.9	8 19	22 19.33	-15 7.9	2.259	3.266	2.1	20.8
8 29	22 11.91	-18 54.0	2.023	3.022	3.5	20.0	8 29	22 11.93	-15 56.9	2.275	3.278	2.5	20.8
9 8	22 4.93	-19 50.8	2.063	3.027	6.7	20.2	9 8	22 4.91	-16 39.0	2.318	3.289	5.6	21.1
9 18	21 59.08	-20 33.6	2.128	3.031	9.9	20.4	9 18	21 58.92	-17 11.1	2.389	3.300	8.7	21.3
9 28	21 54.96	-21 0.3	2.217	3.036	12.8	20.6	9 28	21 54.52	-17 31.3	2.484	3.310	11.3	21.5
52342	1992 <i>SK</i> ₁₉	8 24.8 316°51	3°0/27.5	18			388911	2008 <i>SQ</i> ₉₆	8 24.8 247°79	1°6/26.2	18		
7 20	22 33.41	+ 0 6.5	1.677	2.515	16.1	18.7	7 20	22 39.00	- 4 13.8	1.977	2.813	14.1	22.4
7 30	22 30.63	- 0 16.8	1.583	2.495	12.9	18.4	7 30	22 34.51	- 4 28.8	1.886	2.800	11.0	22.2
8 9	22 25.74	- 1 1.7	1.510	2.476	9.1	18.2	8 9	22 28.02	- 4 58.0	1.816	2.788	7.4	22.0
8 19	22 19.22	- 2 6.5	1.459	2.457	5.1	17.9	8 19	22 20.04	- 5 39.1	1.772	2.775	3.5	21.7
8 29	22 11.87	- 3 26.7	1.434	2.439	3.1	17.7	8 29	22 11.36	- 6 27.8	1.755	2.762	2.0	21.6
9 8	22 4.73	- 4 54.5	1.435	2.421	6.4	17.9	9 8	22 2.92	- 7 18.9	1.765	2.748	5.8	21.8
9 18	21 58.81	- 6 21.6	1.461	2.403	10.7	18.1	9 18	21 55.63	- 8 7.0	1.802	2.734	9.7	22.0
9 28	21 54.98	- 7 40.1	1.510	2.387	14.7	18.3	9 28	21 50.26	- 8 47.3	1.863	2.720	13.3	22.2
280046	2002 <i>AX</i> ₈₄	8 24.8 162°38	1°0/25.7	18			339395	2005 <i>BA</i> ₄₈	8 24.8 238°53	2°0/22.8	18		
7 20	22 39.07	- 4 51.3	2.071	2.906	13.6	20.9	7 20	22 38.13	-13 8.1	1.967	2.831	13.0	21.3
7 30	22 34.31	- 5 24.6	1.996	2.911	10.4	20.7	7 30	22 33.85	-14 5.0	1.888	2.824	9.8	21.1
8 9	22 27.73	- 6 11.5	1.942	2.916	6.8	20.5	8 9	22 27.58	-15 10.9	1.831	2.816	6.1	20.8
8 19	22 19.85	- 7 8.5	1.915	2.920	3.0	20.2	8 19	22 19.87	-16 20.6	1.801	2.808	2.6	20.6
8 29	22 11.46	- 8 10.7	1.916	2.923	1.7	20.2	8 29	22 11.51	-17 27.1	1.798	2.799	3.3	20.6
9 8	22 3.44	- 9 12.3	1.945	2.926	5.5	20.4	9 8	22 3.46	-18 24.4	1.823	2.791	7.1	20.9
9 18	21 56.59	-10 8.1	2.001	2.929	9.1	20.7	9 18	21 56.63	-19 7.7	1.873	2.782	10.8	21.1
9 28	21 51.56	-10 54.1	2.081	2.930	12.4	20.9	9 28	21 51.74	-19 34.7	1.946	2.773	14.0	21.3
382139	2011 <i>KS</i> ₂₇	8 24.8 115°51	3°6/21.8	17			134597	1999 <i>TE</i> ₁₂₈	8 24.8 4°27	1°7/25.7	18	R	
7 20	22 42.66	-18 36.2	1.853	2.722	13.5	21.1	7 20	22 34.25	- 7 18.2	0.920	1.820	21.0	18.9
7 30	22 37.16	-19 23.1	1.797	2.733	10.1	20.9	7 30	22 32.35	- 7 2.2	0.867	1.818	16.3	18.6
8 9	22 29.55	-20 12.8	1.763	2.745	6.5	20.7	8 9	22 27.28	- 7 5.0	0.830	1.818	10.7	18.3
8 19	22 20.51	-20 59.2	1.754	2.756	3.8	20.6	8 19	22 19.86	- 7 23.7	0.813	1.820	4.7	18.0
8 29	22 11.02	-21 35.9	1.774	2.767	4.7	20.7	8 29	22 11.54	- 7 51.8	0.816	1.824	2.7	17.9
9 8	22 2.12	-21 58.4	1.820	2.777	8.0	20.9	9 8	22 4.03	- 8 20.9	0.839	1.830	8.6	18.2
9 18	21 54.74	-22 4.8	1.891	2.787	11.3	21.1	9 18	21 58.77	- 8 43.7	0.883	1.837	14.2	18.6
9 28	21 49.56	-21 55.1	1.984	2.797	14.3	21.3	9 28	21 56.73	- 8 54.6	0.945	1.847	19.0	18.9
101242	1998 <i>SO</i> ₈₂	8 24.8 337°28	0°9/24.2	18			226506	2003 <i>SB</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
224246	2005 <i>SJ</i> ₁₅₅		8 24.8	7°98	7°0/20.2	18	328117	2008 <i>AB</i> ₇₁		8 24.8	123°21	0°4/24.4	17
7 20	22 38.73	-22 30.6	1.139	2.043	17.5	19.0	7 20	22 40.97	- 8 1.4	1.718	2.571	15.1	21.5
7 30	22 35.42	-23 36.6	1.090	2.043	13.4	18.7	7 30	22 36.02	- 8 54.1	1.657	2.585	11.4	21.3
8 9	22 29.03	-24 43.5	1.060	2.045	9.4	18.5	8 9	22 28.93	-10 0.3	1.617	2.598	7.2	21.0
8 19	22 20.46	-25 40.5	1.052	2.048	7.0	18.4	8 19	22 20.36	-11 14.4	1.603	2.611	2.6	20.8
8 29	22 11.13	-26 17.1	1.066	2.052	8.5	18.5	8 29	22 11.26	-12 29.3	1.617	2.623	2.2	20.8
9 8	22 2.68	-26 27.0	1.102	2.057	12.3	18.7	9 8	22 2.71	-13 37.5	1.657	2.635	6.6	21.1
9 18	21 56.45	-26 9.1	1.159	2.063	16.3	19.0	9 18	21 55.65	-14 33.6	1.724	2.646	10.7	21.4
9 28	21 53.32	-25 26.2	1.233	2.070	19.9	19.2	9 28	21 50.78	-15 14.2	1.814	2.657	14.1	21.6
392037	2009 <i>BP</i> ₆₇		8 24.8	228°15	0°8/25.5	18	403393	2009 <i>QH</i> ₅₆		8 24.8	318°87	2°0/27.0	18
7 20	22 39.45	- 7 11.4	1.987	2.832	13.7	21.4	7 20	22 33.94	- 1 30.1	2.182	3.010	13.2	21.3
7 30	22 34.73	- 7 20.5	1.908	2.829	10.5	21.2	7 30	22 30.46	- 1 58.1	2.096	3.004	10.4	21.1
8 9	22 28.07	- 7 40.6	1.850	2.827	6.8	21.0	8 9	22 25.34	- 2 41.6	2.032	2.998	7.1	20.8
8 19	22 20.03	- 8 8.9	1.818	2.824	2.8	20.7	8 19	22 19.03	- 3 38.2	1.993	2.993	3.7	20.6
8 29	22 11.41	- 8 41.4	1.813	2.821	1.7	20.7	8 29	22 12.20	- 4 43.7	1.982	2.987	2.2	20.5
9 8	22 3.16	- 9 13.5	1.836	2.818	5.7	20.9	9 8	22 5.62	- 5 52.6	1.998	2.982	5.1	20.7
9 18	21 56.11	- 9 41.1	1.886	2.815	9.5	21.2	9 18	22 0.03	- 6 59.3	2.041	2.977	8.5	20.9
9 28	21 50.99	-10 0.7	1.959	2.812	12.9	21.4	9 28	21 56.05	- 7 58.8	2.109	2.972	11.7	21.1
187929	2001 <i>CD</i> ₂₄		8 24.8	291°63	1°1/23.5	18	22657	1998 <i>QN</i> ₈		8 24.8	5°14	0°8/25.3	18
7 20	22 34.51	-10 12.4	2.155	3.014	12.2	19.8	7 20	22 38.65	- 7 50.1	1.524	2.387	16.2	17.5
7 30	22 30.97	-11 13.2	2.070	3.002	9.2	19.6	7 30	22 34.61	- 7 54.2	1.455	2.387	12.4	17.2
8 9	22 25.70	-12 25.1	2.007	2.991	5.8	19.4	8 9	22 28.22	- 8 11.4	1.407	2.388	8.0	17.0
8 19	22 19.16	-13 43.6	1.971	2.979	2.1	19.1	8 19	22 20.15	- 8 38.2	1.382	2.389	3.3	16.7
8 29	22 12.04	-15 2.3	1.963	2.968	2.5	19.1	8 29	22 11.41	- 9 9.7	1.382	2.390	2.0	16.6
9 8	22 5.15	-16 15.0	1.984	2.957	6.2	19.3	9 8	22 3.18	- 9 40.1	1.408	2.392	6.8	16.9
9 18	21 59.27	-17 16.4	2.030	2.945	9.7	19.5	9 18	21 56.52	-10 4.4	1.459	2.395	11.2	17.2
9 28	21 55.08	-18 3.1	2.100	2.934	12.8	19.7	9 28	21 52.23	-10 18.9	1.531	2.398	15.1	17.5
374790	2006 <i>TC</i> ₅₈		8 24.8	324°99	5°3/21.6	17	15432	1998 <i>VA</i> ₅		8 24.8	158°43	1°1/25.8	18 R
7 20	22 39.19	-19 18.6	1.166	2.065	17.5	20.5	7 20	22 40.93	- 5 16.3	1.916	2.753	14.4	19.0
7 30	22 36.00	-20 2.8	1.095	2.048	13.4	20.2	7 30	22 35.86	- 5 39.5	1.842	2.759	11.1	18.8
8 9	22 29.64	-20 52.8	1.042	2.030	8.9	19.9	8 9	22 28.80	- 6 16.4	1.790	2.764	7.3	18.6
8 19	22 20.80	-21 39.8	1.011	2.014	5.5	19.7	8 19	22 20.33	- 7 3.5	1.764	2.769	3.2	18.4
8 29	22 10.82	-22 13.5	1.003	1.999	6.9	19.7	8 29	22 11.30	- 7 56.1	1.766	2.773	1.8	18.3
9 8	22 1.38	-22 25.9	1.017	1.984	11.4	19.9	9 8	22 2.69	- 8 48.4	1.795	2.777	5.8	18.5
9 18	21 54.02	-22 13.8	1.052	1.970	16.3	20.2	9 18	21 55.39	- 9 35.2	1.851	2.780	9.7	18.8
9 28	21 49.88	-21 37.6	1.104	1.958	20.6	20.4	9 28	21 50.09	-10 12.6	1.931	2.783	13.1	19.0
213483	2002 <i>FY</i> ₇		8 24.8	94°28	2°6/23.0	17	264496	2001 <i>QQ</i> ₃₃		8 24.8	140°40	0°2/24.9	17
7 20	22 43.80	-14 34.3	1.399	2.274	16.6	20.4	7 20	22 38.30	+ 0 24.5	1.168	2.023	20.6	19.9
7 30	22 38.61	-15 12.3	1.343	2.284	12.5	20.2	7 30	22 35.03	- 1 57.0	1.100	2.028	15.9	19.6
8 9	22 30.76	-15 58.4	1.307	2.293	7.8	19.9	8 9	22 28.86	- 4 57.5	1.053	2.032	10.3	19.3
8 19	22 21.06	-16 45.7	1.296	2.303	3.4	19.7	8 19	22 20.49	- 8 26.5	1.029	2.037	3.9	19.0
8 29	22 10.73	-17 26.5	1.310	2.312	4.1	19.8	8 29	22 11.15	-12 5.2	1.033	2.041	2.7	18.9
9 8	22 1.18	-17 54.3	1.349	2.321	8.6	20.1	9 8	22 2.36	-15 31.7	1.064	2.044	9.0	19.3
9 18	21 53.54	-18 5.9	1.412	2.330	12.9	20.3	9 18	21 55.50	-18 28.7	1.120	2.048	14.7	19.6
9 28	21 48.65	-18 0.4	1.496	2.339	16.6	20.6	9 28	21 51.61	-20 46.7	1.197	2.051	19.3	19.9
266228	2006 <i>XU</i> ₄		8 24.8	215°04	2°2/26.6	18	316977	2001 <i>FV</i> ₁₅₉		8 24.8	89°77	0°2/24.9	17
7 20	22 41.25	- 3 0.2	1.986	2.812	14.4	21.7	7 20	22 43.14	- 7 16.4	1.585	2.437	16.2	20.9
7 30	22 36.17	- 3 8.4	1.897	2.805	11.3	21.5	7 30	22 37.63	- 7 56.1	1.537	2.463	12.3	20.7
8 9	22 29.05	- 3 31.2	1.830	2.797	7.7	21.3	8 9	22 29.89	- 8 49.4	1.509	2.489	7.7	20.5
8 19	22 20.44	- 4 6.4	1.788	2.788	3.9	21.1	8 19	22 20.69	- 9 51.1	1.507	2.514	2.9	20.3
8 29	22 11.13	- 4 50.5	1.774	2.779	2.4	20.9	8 29	22 11.10	-10 54.1	1.531	2.539	2.0	20.3
9 8	22 2.10	- 5 38.2	1.788	2.770	5.8	21.1	9 8	22 2.25	-11 51.4	1.583	2.563	6.6	20.6
9 18	21 54.27	- 6 24.4	1.828	2.759	9.6	21.3	9 18	21 55.09	-12 38.0	1.660	2.587	10.8	20.9
9 28	21 48.41	- 7 4.3	1.893	2.749	13.1	21.5	9 28	21 50.29	-13 10.6	1.760	2.610	14.2	21.2
109147	2001 <i>QZ</i> ₅₇		8 24.8	312°04	1°7/23.4	18	225796	2001 <i>VY</i> ₃₀		8 24.8	352°25	14°2/13.0	18
7 20	22 36.59	-10 52.4	1.431	2.310	16.2	19.2	7 20	22 40.80	-38 29.6	1.216	2.104	17.8	18.3
7 30	22 33.36	-11 48.5	1.355	2.298	12.2	18.9	7 30	22 37.48	-40 27.6	1.177	2.098	15.6	18.1
8 9	22 27.63	-12 59.7	1.300	2.287	7.7	18.6	8 9	22 30.60	-42 8.7	1.157	2.093	14.3	18.0
8 19	22 19.98	-14 19.4	1.268	2.276	2.9	18.3	8 19	22 21.13	-43 18.5	1.156	2.089	14.5	18.0
8 29	22 11.46	-15 38.7	1.261	2.266	3.5	18.3	8 29	22 10.76	-43 46.3	1.175	2.086	16.0	18.1
9 8	22 3.32	-16 48.4	1.280	2.256	8.4	18.6	9 8	22 1.43	-43 28.8	1.213	2.085	18.3	18.3
9 18	21 56.77	-17 41.5	1.321	2.246	13.1	18.8	9 18	21 54.70	-42 29.6	1.267	2.084	20.7	18.4
9 28	21 52.73	-18 14.2	1.383	2.237	17.2	19.1	9 28	21 51.52	-40 56.4	1.336	2.085	23.0	18.6
193602	2001 <i>BL</i> ₇₀		8 24.8	272°89	0°9/26.4	16	209245	2003 <i>WW</i> ₁₂₄		8 24.8	253°29	3°3/27.6	18
7 20	22 30.08	- 4 50.6	4.453	5.271	7.1	20.0	7 20	22 39.66	- 0 31.3	2.135	2.949	13.9	20.7
7 30	22 26.74	- 5 2.0	4.359	5.264	5.5	19.8	7 30	22 34.90	- 0 20.1	2.039	2.936	11.2	20.5
8 9	22 22.60	- 5 19.2	4.289	5.256	3.7	19.7	8 9	22 28.24	- 0 22.9	1.964	2.922	8.0	20.3
8 19	22 17.92	- 5 41.1	4.247	5.249	1.8	19.6	8 19	22 20.16	- 0 39.0	1.914	2.907	4.8	20.0
8 29	22 13.02	- 6 6.0	4.235	5.241	1.0	19.5	8 29	22 11.40	- 1 6.3	1.892	2.893	3.3	19.9
9 8	22 8.23	- 6 32.1	4.252	5.233	2.8	19.6	9 8	22 2.84	- 1 40.9	1.897	2.878	5.7	20.0
9 18	22 3.89	- 6 57.3	4.299	5.226	4.7	19.8	9 18	21 55.33	- 2 18.3	1.929	2.862	9.1	20.2
9 28	22 0.31	- 7 20.0	4.372	5.218	6.4	19.9	9 28	21 49.62	- 2 53.8	1.986	2.847	12.4	20.4
449740	2014 <i>NR</i> ₅₂		8 24.8	4°07	4°2/20.4	18	254357	2004 <i>TY</i> ₆₂					

EPHEMERIDES

8 24.8

8 24.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
235231	2003 <i>SU</i> ₂₅₆		8 24.8 336°09	1°5/25.9	18		24734	Kareness		8 24.8 221°36	5°8/30.4	18	
7 20	22 36.71	− 5 5.3	1.560	2.417	16.2	20.4	7 20	22 39.07	+ 7 55.3	2.270	3.037	14.6	19.0
7 30	22 33.18	− 5 19.7	1.484	2.411	12.6	20.1	7 30	22 34.35	+ 8 17.8	2.175	3.030	12.3	18.8
8 9	22 27.38	− 5 50.5	1.427	2.405	8.3	19.9	8 9	22 27.85	+ 8 22.3	2.101	3.022	9.7	18.6
8 19	22 19.88	− 6 34.7	1.394	2.399	3.8	19.6	8 19	22 20.03	+ 8 7.9	2.050	3.013	7.2	18.5
8 29	22 11.64	− 7 26.9	1.387	2.394	2.1	19.5	8 29	22 11.58	+ 7 35.5	2.026	3.004	5.8	18.4
9 8	22 3.80	− 8 20.4	1.404	2.390	6.6	19.7	9 8	22 3.34	+ 6 48.6	2.029	2.995	6.7	18.4
9 18	21 57.41	− 9 8.6	1.447	2.386	11.1	20.0	9 18	21 56.09	+ 5 51.9	2.059	2.985	9.0	18.5
9 28	21 53.29	− 9 46.4	1.511	2.382	15.0	20.2	9 28	21 50.53	+ 4 51.6	2.113	2.975	11.7	18.7
176040	2000 <i>SY</i> ₂₂₃		8 24.8 11°92	3°6/28.4	18		293987	2007 <i>TF</i> ₇₀		8 24.8 262°10	6°6/1.4	18	
7 20	22 34.78	+ 2 6.0	1.955	2.772	14.9	19.8	7 20	22 37.02	+13 36.9	2.470	3.198	14.5	21.7
7 30	22 31.24	+ 1 51.9	1.877	2.773	12.0	19.6	7 30	22 32.84	+13 34.4	2.351	3.172	12.6	21.5
8 9	22 25.90	+ 1 19.1	1.819	2.774	8.7	19.4	8 9	22 26.95	+13 10.0	2.252	3.145	10.4	21.3
8 19	22 19.27	+ 0 29.0	1.785	2.776	5.3	19.2	8 19	22 19.73	+12 22.2	2.176	3.118	8.2	21.1
8 29	22 12.10	+ 0 34.5	1.777	2.777	3.6	19.1	8 29	22 11.80	+11 11.5	2.126	3.090	6.8	21.0
9 8	22 5.27	− 1 45.5	1.796	2.779	5.7	19.2	9 8	22 3.93	+ 9 41.8	2.103	3.061	7.1	21.0
9 18	21 59.56	− 2 57.6	1.842	2.782	9.0	19.5	9 18	21 56.88	+ 7 58.7	2.108	3.032	9.0	21.0
9 28	21 55.65	− 4 4.6	1.912	2.784	12.3	19.7	9 28	21 51.37	+ 6 9.9	2.139	3.002	11.6	21.1
296069	2009 <i>AD</i> ₅₀		8 24.8 253°54	1°2/25.8	18		316473	2010 <i>VD</i> ₁₇		8 24.8 265°03	1°6/23.1	18	
7 20	22 39.20	− 6 2.5	1.983	2.825	13.8	21.2	7 20	22 36.56	−13 0.5	2.405	3.262	11.2	21.5
7 30	22 34.58	− 6 8.4	1.901	2.820	10.7	21.0	7 30	22 32.40	−13 47.7	2.313	3.245	8.4	21.3
8 9	22 28.04	− 6 26.1	1.841	2.815	7.1	20.8	8 9	22 26.60	−14 42.6	2.244	3.227	5.3	21.0
8 19	22 20.08	− 6 53.1	1.805	2.810	3.1	20.5	8 19	22 19.56	−15 41.0	2.203	3.210	2.2	20.8
8 29	22 11.53	− 7 25.7	1.798	2.805	1.8	20.4	8 29	22 11.95	−16 37.7	2.190	3.192	2.7	20.8
9 8	22 3.30	− 7 59.3	1.817	2.800	5.7	20.7	9 8	22 4.53	−17 27.9	2.205	3.174	6.0	21.0
9 18	21 56.27	− 8 29.4	1.863	2.795	9.5	20.9	9 18	21 58.03	−18 7.5	2.248	3.156	9.3	21.2
9 28	21 51.15	− 8 52.4	1.933	2.789	12.9	21.1	9 28	21 53.11	−18 34.3	2.314	3.138	12.2	21.3
33123	1998 <i>BG</i> ₃₁		8 24.8 19°14	3°4/26.7	18		91075	1998 <i>FT</i> ₉₆		8 24.8 149°91	0°5/25.2	18	
7 20	22 41.53	− 4 42.8	1.281	2.142	18.8	16.8	7 20	22 43.55	− 8 46.0	1.995	2.836	13.8	19.6
7 30	22 37.07	− 3 59.8	1.221	2.148	14.8	16.5	7 30	22 37.75	− 8 47.5	1.922	2.843	10.5	19.4
8 9	22 29.91	− 3 32.3	1.180	2.154	10.1	16.3	8 9	22 29.96	− 8 58.1	1.872	2.849	6.7	19.1
8 19	22 20.82	− 3 19.6	1.161	2.162	5.4	16.0	8 19	22 20.80	− 9 14.9	1.848	2.854	2.7	18.9
8 29	22 11.03	− 3 19.0	1.166	2.171	3.6	16.0	8 29	22 11.11	− 9 34.2	1.851	2.859	1.7	18.8
9 8	22 1.95	− 3 25.9	1.195	2.180	7.4	16.2	9 8	22 1.89	− 9 51.9	1.884	2.864	5.8	19.1
9 18	21 54.78	− 3 35.2	1.247	2.191	12.0	16.5	9 18	21 54.01	−10 4.9	1.943	2.868	9.5	19.4
9 28	21 50.39	− 3 41.9	1.321	2.202	16.1	16.8	9 28	21 48.15	−10 10.5	2.026	2.872	12.8	19.6
522619	2016 <i>FF</i> ₆₆		8 24.8 92°55	2°8/23.0	17		313592	2003 <i>NH</i> ₁		8 24.8 26°82	5°5/28.6	18	
7 20	22 44.37	−15 19.7	1.372	2.249	16.8	21.3	7 20	22 40.90	+ 1 24.3	1.642	2.463	17.1	19.3
7 30	22 39.16	−15 51.1	1.313	2.255	12.7	21.1	7 30	22 36.01	+ 2 23.3	1.583	2.479	13.9	19.2
8 9	22 31.21	−16 29.8	1.274	2.260	8.0	20.9	8 9	22 28.96	+ 3 5.1	1.545	2.495	10.3	19.0
8 19	22 21.29	−17 9.0	1.258	2.265	3.5	20.6	8 19	22 20.43	+ 3 28.8	1.529	2.512	7.0	18.8
8 29	22 10.69	−17 41.2	1.268	2.270	4.3	20.7	8 29	22 11.40	+ 3 35.4	1.538	2.530	5.5	18.8
9 8	22 0.84	−18 0.2	1.303	2.276	8.8	21.0	9 8	22 2.97	+ 3 28.3	1.573	2.549	7.2	18.9
9 18	21 52.95	−18 3.1	1.362	2.281	13.3	21.2	9 18	21 56.06	+ 3 12.4	1.633	2.569	10.3	19.2
9 28	21 47.89	−17 49.4	1.441	2.286	17.1	21.5	9 28	21 51.39	+ 2 53.0	1.716	2.589	13.4	19.4
296368	2009 <i>FM</i> ₃₇		8 24.8 266°30	5°7/20.9	17		97907	2000 <i>QF</i> ₈₀		8 24.8 328°75	0°6/25.2	18	
7 20	22 44.18	−21 11.0	1.400	2.283	16.1	20.8	7 20	22 37.66	− 8 51.4	1.304	2.182	17.5	19.0
7 30	22 39.32	−22 8.9	1.330	2.274	12.4	20.5	7 30	22 34.47	− 8 47.2	1.223	2.163	13.5	18.7
8 9	22 31.51	−23 10.0	1.281	2.264	8.5	20.3	8 9	22 28.54	− 8 56.3	1.162	2.146	8.8	18.4
8 19	22 21.49	−24 5.3	1.256	2.253	5.8	20.1	8 19	22 20.45	− 9 15.9	1.122	2.129	3.5	18.0
8 29	22 10.51	−24 45.0	1.255	2.243	7.2	20.2	8 29	22 11.33	− 9 40.7	1.105	2.114	2.3	17.9
9 8	22 0.10	−25 2.6	1.279	2.233	11.0	20.4	9 8	22 2.57	−10 4.3	1.113	2.099	7.8	18.2
9 18	21 51.65	−24 55.6	1.325	2.222	15.1	20.6	9 18	21 55.52	−10 21.1	1.143	2.085	13.0	18.4
9 28	21 46.16	−24 25.4	1.390	2.212	18.8	20.8	9 28	21 51.23	−10 26.9	1.194	2.073	17.6	18.7
318573	2005 <i>GO</i> ₁₄₁		8 24.8 130°17	2°6/27.7	17		330251	2006 <i>RL</i> ₃₈		8 24.8 321°99	4°6/27.5	18	
7 20	22 38.19	+ 0 32.1	2.424	3.228	12.7	21.6	7 20	22 37.99	− 1 14.9	1.250	2.106	19.4	20.8
7 30	22 33.36	+ 0 12.2	2.352	3.243	10.1	21.5	7 30	22 34.82	− 0 44.9	1.169	2.091	15.7	20.5
8 9	22 27.02	− 0 22.1	2.302	3.258	7.1	21.3	8 9	22 28.83	− 0 35.1	1.107	2.076	11.2	20.2
8 19	22 19.64	− 1 8.6	2.278	3.271	4.1	21.1	8 19	22 20.59	− 0 45.9	1.065	2.062	6.7	19.9
8 29	22 11.89	− 2 4.1	2.282	3.284	2.6	21.1	8 29	22 11.23	− 1 14.8	1.046	2.049	4.6	19.8
9 8	22 4.48	− 3 3.7	2.316	3.297	4.8	21.2	9 8	22 2.22	− 1 55.6	1.050	2.036	8.1	19.9
9 18	21 58.08	− 4 2.8	2.378	3.309	7.7	21.4	9 18	21 54.94	− 2 40.7	1.076	2.024	13.0	20.2
9 28	21 53.23	− 4 56.9	2.465	3.321	10.5	21.6	9 28	21 50.51	− 3 22.0	1.123	2.013	17.6	20.4
517890	2015 <i>SW</i> ₂₄		8 24.8 282°18	0°5/25.3	17		265288	2004 <i>GP</i> ₄		8 24.8 220°36	1°1/23.9	17	
7 20	22 37.50	− 8 24.2	2.505	3.345	11.3	21.8	7 20	22 41.96	−11 19.9	1.828	2.685	14.2	21.9
7 30	22 32.94	− 8 28.5	2.416	3.336	8.7	21.6	7 30	22 36.91	−11 52.8	1.747	2.678	10.8	21.6
8 9	22 26.82	− 8 40.5	2.351	3.328	5.6	21.4	8 9	22 29.66	−12 35.5	1.688	2.671	6.8	21.4
8 19	22 19.60	− 8 58.1	2.313	3.319	2.3	21.2	8 19	22 20.77	−13 23.6	1.655	2.663	2.5	21.1
8 29	22 11.90	− 9 18.4	2.303	3.310	1.4	21.1	8 29	22 11.16	−14 11.1	1.649	2.654	2.6	21.1
9 8	22 4.45	− 9 38.0	2.321	3.302	4.8	21.3	9 8	22 1.91	−14 52.0	1.670	2.645	6.9	21.3
9 18	21 57.92	− 9 54.0	2.367	3.293	8.0	21.5	9 18	21 54.03	−15 21.9	1.717	2.636	11.0	21.6
9 28	21 52.90	−10 4.0	2.438	3.284	10.9	21.7	9 28	21 48.32	−15 38.3	1.787	2.626	14.5	21.8
153700	2001 <i>UM</i> ₄₆												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
521475	2015 <i>OY</i> ₉₂	8 24.8 105°88'		5°1'/19.4 18			52178	2001 <i>DM</i> ₅₉	8 24.8 174°75'		0°7'/24.0 18		
7 20	22 38.84	-24 2.2	2.184	3.055	11.6	20.8	7 20	22 39.92	-12 40.4	2.875	3.716	10.0	21.0
7 30	22 34.20	-25 10.1	2.126	3.061	8.9	20.7	7 30	22 34.51	-12 53.0	2.795	3.718	7.5	20.8
8 9	22 27.72	-26 17.1	2.092	3.066	6.4	20.5	8 9	22 27.71	-13 10.0	2.740	3.720	4.7	20.6
8 19	22 19.98	-27 16.9	2.085	3.072	5.1	20.5	8 19	22 19.97	-13 28.8	2.714	3.721	1.7	20.4
8 29	22 11.78	-28 3.3	2.105	3.077	6.2	20.5	8 29	22 11.86	-13 46.4	2.717	3.722	1.7	20.4
9 8	22 4.02	-28 32.3	2.152	3.082	8.6	20.7	9 8	22 4.05	-14 0.2	2.750	3.723	4.7	20.7
9 18	21 57.50	-28 42.5	2.222	3.087	11.2	20.9	9 18	21 57.12	-14 8.0	2.811	3.723	7.5	20.8
9 28	21 52.86	-28 34.2	2.315	3.092	13.6	21.1	9 28	21 51.58	-14 8.4	2.897	3.723	9.9	21.0
465293	2007 <i>TR</i> ₃₃₀	8 24.8 284°02'		3°9'/29.8 16			60664	2000 <i>FX</i> ₇₂	8 24.8 93°23'		1°8'/26.7 18		
7 20	22 34.80	+ 5 59.9	3.178	3.944	10.8	22.1	7 20	22 37.01	- 1 59.1	1.956	2.787	14.4	18.9
7 30	22 30.77	+ 6 0.6	3.053	3.911	9.0	21.9	7 30	22 32.86	- 2 36.9	1.888	2.799	11.2	18.7
8 9	22 25.45	+ 5 48.0	2.951	3.877	7.0	21.7	8 9	22 26.91	- 3 31.1	1.843	2.811	7.5	18.5
8 19	22 19.15	+ 5 22.0	2.873	3.843	5.0	21.5	8 19	22 19.71	- 4 38.3	1.822	2.824	3.7	18.3
8 29	22 12.33	+ 4 43.8	2.824	3.809	3.9	21.4	8 29	22 12.06	- 5 53.0	1.829	2.836	2.0	18.2
9 8	22 5.54	+ 3 56.1	2.803	3.774	4.7	21.4	9 8	22 4.82	- 7 8.8	1.864	2.848	5.4	18.5
9 18	21 59.34	+ 3 2.1	2.811	3.739	6.8	21.5	9 18	21 58.78	- 8 19.5	1.925	2.859	9.1	18.7
9 28	21 54.25	+ 2 6.0	2.846	3.703	9.2	21.6	9 28	21 54.58	- 9 20.1	2.011	2.871	12.3	18.9
17756	1998 <i>DM</i> ₁₃	8 24.8 21°77'		9°0'/1.8 18			300580	2007 <i>TA</i> ₃₇₁	8 24.8 297°91'		0°2'/24.6 18		
7 20	22 36.51	+12 17.1	1.584	2.360	19.6	17.4	7 20	22 36.26	- 8 3.6	1.792	2.651	14.3	20.8
7 30	22 33.03	+12 57.1	1.512	2.363	16.8	17.3	7 30	22 32.68	- 8 45.4	1.707	2.638	10.9	20.6
8 9	22 27.30	+13 9.4	1.457	2.366	13.8	17.1	8 9	22 27.04	- 9 41.3	1.644	2.626	7.0	20.3
8 19	22 19.91	+12 51.5	1.421	2.371	11.0	16.9	8 19	22 19.84	-10 47.0	1.605	2.613	2.6	20.0
8 29	22 11.81	+12 4.0	1.408	2.375	9.1	16.8	8 29	22 11.92	-11 56.2	1.594	2.601	2.0	19.9
9 8	22 4.12	+10 52.2	1.419	2.380	9.4	16.9	9 8	22 4.28	-13 1.8	1.609	2.589	6.5	20.2
9 18	21 57.87	+ 9 24.2	1.453	2.386	11.6	17.0	9 18	21 57.87	-13 57.7	1.650	2.577	10.7	20.4
9 28	21 53.89	+ 7 50.2	1.510	2.391	14.4	17.2	9 28	21 53.50	-14 39.6	1.713	2.566	14.4	20.6
275547	1998 <i>VE</i> ₄₃	8 24.8 353°70'		6°9'/20.8 17			112009	2002 <i>GO</i> ₁₅₄	8 24.8 19°39'		0°3'/24.6 18		
7 20	22 31.93	-20 57.4	0.887	1.811	19.2	19.3	7 20	22 35.13	- 6 15.5	1.139	2.021	19.1	19.3
7 30	22 30.99	-21 48.5	0.834	1.799	14.7	19.0	7 30	22 32.60	- 7 17.2	1.082	2.025	14.6	19.0
8 9	22 26.68	-22 43.4	0.798	1.790	10.1	18.7	8 9	22 27.30	- 8 41.6	1.043	2.029	9.3	18.7
8 19	22 19.80	-23 30.7	0.782	1.783	7.0	18.5	8 19	22 19.98	-10 21.4	1.026	2.034	3.4	18.4
8 29	22 11.90	-23 58.5	0.785	1.779	8.6	18.6	8 29	22 11.86	-12 5.1	1.032	2.040	2.6	18.4
9 8	22 4.84	-23 58.8	0.807	1.777	13.1	18.8	9 8	22 4.40	-13 40.5	1.063	2.047	8.4	18.8
9 18	22 0.16	-23 29.5	0.847	1.777	17.9	19.1	9 18	21 58.84	-14 58.1	1.115	2.054	13.6	19.1
9 28	21 58.88	-22 33.0	0.904	1.780	22.1	19.4	9 28	21 56.09	-15 52.1	1.187	2.062	18.0	19.4
261782	2006 <i>BS</i> ₁₄₄	8 24.8 236°37'		0°9'/25.9 18			28725	2000 <i>GB</i> ₁₁₃	8 24.8 128°85'		4°4'/21.4 18		
7 20	22 34.80	- 3 53.3	2.777	3.601	10.8	21.0	7 20	22 45.27	-20 38.7	1.798	2.665	13.9	18.8
7 30	22 30.83	- 4 39.5	2.679	3.589	8.4	20.8	7 30	22 39.28	-21 28.5	1.742	2.677	10.5	18.6
8 9	22 25.50	- 5 37.8	2.606	3.576	5.5	20.6	8 9	22 31.03	-22 19.4	1.709	2.689	7.0	18.4
8 19	22 19.16	- 6 45.5	2.560	3.564	2.5	20.4	8 19	22 21.25	-23 4.6	1.702	2.700	4.5	18.3
8 29	22 12.36	- 7 58.6	2.543	3.550	1.3	20.3	8 29	22 10.99	-23 37.4	1.722	2.710	5.5	18.4
9 8	22 5.71	- 9 12.2	2.556	3.537	4.4	20.5	9 8	22 1.40	-23 53.6	1.769	2.720	8.7	18.6
9 18	21 59.82	-10 21.9	2.598	3.523	7.4	20.6	9 18	21 53.44	-23 51.7	1.841	2.730	12.0	18.8
9 28	21 55.22	-11 23.6	2.665	3.509	10.1	20.8	9 28	21 47.84	-23 32.6	1.934	2.739	14.9	19.1
224080	2005 <i>NU</i> ₇₁	8 24.8 7°78'		0°7'/24.3 15			172180	2002 <i>PR</i> ₄₈	8 24.8 309°07'		4°5'/27.9 18		
7 20	22 34.25	- 9 6.8	1.072	1.966	19.1	20.2	7 20	22 39.93	+ 0 3.4	1.748	2.572	16.1	19.6
7 30	22 32.05	- 9 41.9	1.016	1.967	14.5	19.9	7 30	22 35.54	+ 0 40.4	1.658	2.558	13.1	19.4
8 9	22 26.99	-10 35.0	0.980	1.969	9.2	19.6	8 9	22 28.91	+ 1 2.2	1.587	2.544	9.6	19.2
8 19	22 19.84	-11 39.5	0.963	1.972	3.3	19.3	8 19	22 20.57	+ 1 8.1	1.540	2.530	6.1	18.9
8 29	22 11.89	-12 45.8	0.969	1.977	2.9	19.3	8 29	22 11.39	+ 0 59.4	1.519	2.517	4.5	18.8
9 8	22 4.65	-13 43.8	0.998	1.983	8.7	19.7	9 8	22 2.46	+ 0 39.7	1.524	2.504	6.9	18.9
9 18	21 59.40	-14 26.1	1.048	1.990	13.9	20.0	9 18	21 54.81	+ 0 13.7	1.554	2.491	10.6	19.1
9 28	21 57.06	-14 48.6	1.117	1.999	18.3	20.3	9 28	21 49.34	- 0 13.1	1.607	2.479	14.2	19.3
206407	2003 <i>SB</i> ₉₀	8 24.8 259°82'		0°1'/24.9 18			299699	2006 <i>QG</i> ₁₄₈	8 24.8 59°91'		2°2'/23.0 18		
7 20	22 42.87	-10 7.4	1.975	2.822	13.7	20.6	7 20	22 40.10	-15 4.4	1.857	2.724	13.5	20.2
7 30	22 37.49	-10 6.2	1.884	2.808	10.5	20.4	7 30	22 35.33	-15 35.6	1.793	2.730	10.1	20.0
8 9	22 30.00	-10 13.1	1.816	2.794	6.7	20.1	8 9	22 28.53	-16 12.5	1.752	2.737	6.4	19.8
8 19	22 20.92	-10 25.3	1.773	2.780	2.6	19.8	8 19	22 20.33	-16 50.0	1.737	2.743	2.8	19.6
8 29	22 11.11	-10 39.1	1.758	2.766	1.8	19.8	8 29	22 11.64	-17 22.6	1.748	2.750	3.4	19.6
9 8	22 1.60	-10 50.6	1.772	2.751	6.1	20.0	9 8	22 3.46	-17 45.6	1.787	2.757	7.0	19.9
9 18	21 53.34	-10 56.6	1.811	2.736	10.1	20.2	9 18	21 56.68	-17 56.2	1.851	2.764	10.6	20.1
9 28	21 47.12	-10 54.6	1.875	2.721	13.6	20.4	9 28	21 51.97	-17 53.3	1.937	2.771	13.8	20.3
93763	2000 <i>WH</i> ₁₉	8 24.8 266°40'		0°2'/24.7 18			148062	1998 <i>UB</i> ₅	8 24.8 286°86'		1°9'/23.4 18		
7 20	22 38.50	- 7 45.8	1.964	2.813	13.7	19.5	7 20	22 39.40	-12 16.1	1.527	2.400	15.6	20.6
7 30	22 34.32	- 8 28.8	1.865	2.791	10.5	19.2	7 30	22 35.49	-12 59.2	1.444	2.384	11.9	20.3
8 9	22 28.08	- 9 25.6	1.789	2.769	6.7	19.0	8 9	22 29.06	-13 54.4	1.382	2.368	7.5	20.0
8 19	22 20.24	-10 32.6	1.738	2.746	2.5	18.7	8 19	22 20.67	-14 56.1	1.344	2.352	3.0	19.7
8 29	22 11.59	-11 43.8	1.715	2.723	1.9	18.6	8 29	22 11.33	-15 56.4	1.331	2.335	3.5	19.7
9 8	22 3.08	-12 52.6	1.720	2.699	6.4	18.8	9 8	22 2.31	-16 47.4	1.344	2.319	8.2	19.9
9 18	21 55.68	-13 52.8	1.751	2.675	10.5	19.0	9 18	21 54.82	-17 23.4	1.381	2.303	12.9	20.2
9 28	21 50.22	-14 39.9	1.805	2.650	14.2	19.2	9 28	21 49.82	-17 41.3	1.438	2.287	16.9	20.4
71124	1999 <i>XR</i> ₁₇₃	8 24.8 309°19'		5°0'/27.9 18			418183						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
93407	2000 <i>SM</i> ₂₉₄		8 24.8 84°04'	3°5'/22.7	18		485227	2010 <i>VZ</i> ₂₄		8 24.8 328°88'	1°2'/23.8	17	
7 20	22 47.87	-19 35.5	1.676	2.542	14.8	18.5	7 20	22 35.55	-11 48.1	1.701	2.574	14.3	21.1
7 30	22 41.30	-19 46.5	1.618	2.552	11.2	18.3	7 30	22 32.30	-12 16.0	1.616	2.556	10.9	20.9
8 9	22 32.32	-19 58.0	1.582	2.563	7.2	18.1	8 9	22 26.89	-12 54.2	1.552	2.538	6.8	20.6
8 19	22 21.73	-20 4.7	1.571	2.574	3.9	17.9	8 19	22 19.83	-13 38.2	1.512	2.521	2.6	20.3
8 29	22 10.69	-20 1.7	1.588	2.585	4.5	18.0	8 29	22 12.01	-14 22.2	1.498	2.504	2.7	20.3
9 8	22 0.43	-19 45.8	1.631	2.596	8.1	18.2	9 8	22 4.48	-14 59.9	1.510	2.488	7.1	20.5
9 18	21 51.99	-19 16.6	1.700	2.606	11.8	18.5	9 18	21 58.24	-15 26.5	1.547	2.473	11.4	20.7
9 28	21 46.09	-18 35.1	1.791	2.617	15.1	18.7	9 28	21 54.15	-15 39.0	1.604	2.459	15.1	20.9
445017	2008 <i>HB</i> ₆₅		8 24.8 1°81'	2°8'/21.8	18		398783	2013 <i>AG</i> ₁₁₈		8 24.8 251°19'	2°2'/22.9	18	
7 20	22 35.45	-15 14.0	2.051	2.922	12.3	20.8	7 20	22 40.13	-15 24.7	2.091	2.953	12.4	22.0
7 30	22 31.77	-16 24.0	1.982	2.921	9.2	20.6	7 30	22 35.30	-15 57.2	2.010	2.944	9.4	21.8
8 9	22 26.28	-17 41.1	1.936	2.921	5.8	20.4	8 9	22 28.55	-16 35.2	1.952	2.935	5.9	21.6
8 19	22 19.51	-18 59.1	1.917	2.921	3.0	20.2	8 19	22 20.39	-17 14.0	1.920	2.925	2.7	21.3
8 29	22 12.22	-20 11.4	1.925	2.922	4.0	20.3	8 29	22 11.63	-17 48.4	1.915	2.916	3.3	21.4
9 8	22 5.27	-21 11.9	1.961	2.922	7.3	20.5	9 8	22 3.20	-18 13.9	1.939	2.906	6.8	21.6
9 18	21 59.46	-21 56.6	2.022	2.923	10.5	20.7	9 18	21 55.96	-18 27.4	1.988	2.896	10.3	21.8
9 28	21 55.45	-22 23.6	2.106	2.923	13.4	20.9	9 28	21 50.62	-18 27.6	2.060	2.886	13.4	21.9
135961	2002 <i>TK</i> ₂₆₀		8 24.8 299°96'	3°0'/27.5	18		449898	2015 <i>MP</i> ₁₀₉		8 24.8 331°31'	5°4'/19.4	18	
7 20	22 36.75	-0 33.5	1.880	2.708	15.0	20.1	7 20	22 36.63	-21 6.3	1.784	2.667	13.2	20.8
7 30	22 32.90	-0 40.1	1.795	2.701	12.0	19.9	7 30	22 33.03	-22 36.6	1.719	2.662	10.1	20.6
8 9	22 27.10	-1 3.8	1.731	2.694	8.4	19.6	8 9	22 27.28	-24 10.6	1.677	2.658	7.0	20.4
8 19	22 19.86	-1 43.0	1.691	2.688	4.8	19.4	8 19	22 19.95	-25 39.8	1.661	2.653	5.4	20.3
8 29	22 11.96	-2 34.2	1.678	2.681	3.1	19.3	8 29	22 11.95	-26 55.5	1.671	2.649	6.8	20.3
9 8	22 4.35	-3 31.8	1.691	2.675	5.8	19.4	9 8	22 4.36	-27 51.0	1.706	2.646	9.8	20.5
9 18	21 57.92	-4 29.7	1.730	2.668	9.6	19.7	9 18	21 58.15	-28 23.2	1.765	2.642	13.0	20.7
9 28	21 53.42	-5 22.1	1.793	2.662	13.1	19.9	9 28	21 54.09	-28 31.6	1.844	2.639	15.9	20.9
428252	2007 <i>BC</i> ₂₂		8 24.8 183°56'	0°7'/24.2	17		392935	2012 <i>VX</i> ₁₁₀		8 24.8 242°98'	1°0'/23.9	18	
7 20	22 41.74	-10 18.3	2.054	2.902	13.2	22.6	7 20	22 39.63	-11 20.5	2.091	2.945	12.8	22.2
7 30	22 36.46	-10 53.9	1.976	2.902	10.0	22.4	7 30	22 34.97	-11 56.6	2.003	2.932	9.7	22.0
8 9	22 29.24	-11 39.1	1.922	2.902	6.3	22.2	8 9	22 28.38	-12 41.8	1.937	2.919	6.1	21.7
8 19	22 20.62	-12 29.6	1.894	2.902	2.3	22.0	8 19	22 20.35	-13 32.0	1.898	2.906	2.3	21.5
8 29	22 11.43	-13 20.1	1.894	2.901	2.1	21.9	8 29	22 11.66	-14 22.0	1.887	2.892	2.4	21.4
9 8	22 2.61	-14 5.2	1.923	2.899	6.1	22.2	9 8	22 3.23	-15 6.3	1.904	2.878	6.3	21.7
9 18	21 55.02	-14 40.8	1.979	2.896	9.8	22.4	9 18	21 55.92	-15 40.7	1.947	2.864	10.0	21.9
9 28	21 49.36	-15 4.3	2.058	2.893	13.0	22.6	9 28	21 50.47	-16 2.5	2.014	2.849	13.3	22.1
481233	2005 <i>WJ</i> ₈₀		8 24.8 266°61'	4°3'/20.1	17		184249	2004 <i>SE</i> ₂₉		8 24.8 37°31'	5°0'/30.4	18	
7 20	22 38.14	-22 1.1	2.326	3.196	11.1	21.8	7 20	22 33.57	+ 7 16.9	1.740	2.541	17.1	19.5
7 30	22 33.72	-23 1.2	2.247	3.182	8.5	21.7	7 30	22 30.46	+ 6 47.4	1.679	2.560	14.0	19.4
8 9	22 27.50	-24 2.8	2.191	3.169	5.9	21.5	8 9	22 25.48	+ 5 52.7	1.638	2.579	10.5	19.2
8 19	22 19.98	-25 0.3	2.162	3.155	4.4	21.4	8 19	22 19.23	+ 4 34.8	1.619	2.598	7.1	19.0
8 29	22 11.88	-25 47.8	2.161	3.141	5.4	21.4	8 29	22 12.54	+ 2 58.9	1.625	2.619	5.0	19.0
9 8	22 4.05	-26 20.7	2.187	3.127	8.0	21.5	9 8	22 6.33	+ 1 13.1	1.658	2.639	6.3	19.1
9 18	21 57.29	-26 36.6	2.238	3.113	10.8	21.7	9 18	22 1.40	+ 0 33.6	1.717	2.661	9.3	19.3
9 28	21 52.28	-26 35.1	2.312	3.099	13.3	21.8	9 28	21 58.38	- 2 13.2	1.801	2.682	12.5	19.6
136207	2003 <i>WW</i> ₁₉		8 24.8 338°22'	1°1'/25.3	18		420369	2012 <i>BZ</i> ₁₁₀		8 24.8 168°20'	0°1'/24.9	17	
7 20	22 39.00	-9 29.7	1.056	1.946	19.7	18.9	7 20	22 45.08	-9 14.4	1.667	2.518	15.6	22.1
7 30	22 36.01	-9 9.5	0.985	1.931	15.3	18.5	7 30	22 39.36	-9 26.3	1.595	2.521	11.9	21.8
8 9	22 29.79	-8 47.9	0.932	1.918	10.1	18.2	8 9	22 31.26	-9 49.2	1.545	2.524	7.6	21.6
8 19	22 21.04	-8 43.6	0.898	1.906	4.2	17.8	8 19	22 21.44	-10 19.3	1.520	2.527	2.9	21.3
8 29	22 11.10	-8 45.0	0.887	1.895	2.6	17.7	8 29	22 10.95	-10 51.4	1.521	2.529	2.0	21.3
9 8	22 1.71	-8 46.5	0.897	1.885	8.7	18.0	9 8	22 0.99	-11 20.0	1.550	2.530	6.8	21.6
9 18	21 54.43	-8 43.0	0.929	1.877	14.4	18.3	9 18	21 52.63	-11 40.9	1.605	2.531	11.1	21.8
9 28	21 50.44	-8 30.6	0.979	1.871	19.4	18.6	9 28	21 46.68	-11 51.2	1.682	2.531	14.8	22.1
96053	2156 <i>P-L</i>		8 24.8 341°09'	4°6'/29.6	18		7773	<i>Kyokuchiken</i>		8 24.8 35°06'	3°7'/22.1	18	
7 20	22 32.83	+ 5 11.8	1.921	2.727	15.5	19.2	7 20	22 40.39	-17 52.2	1.512	2.393	15.3	16.6
7 30	22 29.92	+ 4 58.2	1.835	2.720	12.8	19.0	7 30	22 35.93	-18 33.2	1.459	2.403	11.4	16.4
8 9	22 25.20	+ 4 22.8	1.768	2.714	9.6	18.8	8 9	22 29.08	-19 18.4	1.428	2.413	7.3	16.2
8 19	22 19.15	+ 3 26.5	1.725	2.708	6.4	18.6	8 19	22 20.60	-20 0.8	1.420	2.424	4.0	16.1
8 29	22 12.49	+ 2 12.6	1.707	2.702	4.6	18.5	8 29	22 11.59	-20 33.3	1.438	2.435	5.0	16.1
9 8	22 6.11	+ 0 47.2	1.716	2.697	6.1	18.6	9 8	22 3.29	-20 50.9	1.482	2.447	8.7	16.4
9 18	22 0.81	+ 0 42.2	1.750	2.692	9.2	18.8	9 18	21 56.71	-20 51.2	1.548	2.459	12.5	16.6
9 28	21 57.30	- 2 8.2	1.809	2.688	12.5	19.0	9 28	21 52.59	-20 34.4	1.636	2.471	15.8	16.9
479309	2013 <i>LK</i> ₁₇		8 24.8 153°81'	5°4'/17.6	18		512316	2016 <i>JO</i> ₃₅		8 24.8 77°70'	2°3'/23.2	17	
7 20	22 38.89	-29 0.2	2.831	3.692	9.6	22.0	7 20	22 43.09	-12 51.7	1.359	2.234	17.0	21.2
7 30	22 33.93	-30 10.3	2.776	3.698	7.6	21.9	7 30	22 38.07	-13 43.9	1.313	2.254	12.7	21.0
8 9	22 27.44	-31 16.5	2.747	3.704	6.0	21.8	8 9	22 30.46	-14 46.3	1.287	2.273	7.9	20.8
8 19	22 19.91	-32 13.5	2.744	3.710	5.4	21.8	8 19	22 21.11	-15 51.2	1.285	2.292	3.2	20.6
8 29	22 11.99	-32 56.8	2.770	3.715	6.3	21.8	8 29	22 11.26	-16 49.8	1.309	2.312	3.8	20.7
9 8	22 4.42	-33 23.3	2.822	3.720	8.1	22.0	9 8	22 2.25	-17 35.0	1.357	2.331	8.4	21.0
9 18	21 57.85	-33 32.1	2.899	3.725	10.0	22.1	9 18	21 55.18	-18 2.8	1.430	2.350	12.7	21.3
9 28	21 52.82	-33 24.0	2.998	3.729	11.8	22.3	9 28	21 50.80	-18 12.0	1.523	2.368	16.3	21.6
114749	2003 <i>HR</i> ₂₉		8 24.8 32°31'	3°8'/20.8	18		271021	2003 <i>AB</i> ₄₀		8 24.8 229°15'	2°9		

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8 24.8

8 24.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
434116	2002 <i>PZ</i> ₁₃₈		8 24.8 345°66	1.4°/23.8	18		322140	2010 <i>VA</i> ₂₀₀		8 24.9 355°92	7°0'/18.1	18	
7 20	22 26.54	- 9 42.3	1.057	1.964	18.3	19.4	7 20	22 36.48	-26 6.0	1.716	2.603	13.5	19.3
7 30	22 26.44	-10 26.1	0.983	1.941	14.0	19.1	7 30	22 33.03	-27 30.5	1.659	2.600	10.5	19.1
8 9	22 23.66	-11 30.3	0.927	1.920	8.9	18.8	8 9	22 27.33	-28 53.3	1.625	2.597	8.0	19.0
8 19	22 18.75	-12 48.9	0.892	1.901	3.2	18.4	8 19	22 20.02	-30 5.4	1.615	2.595	7.0	18.9
8 29	22 12.82	-14 11.5	0.878	1.885	3.5	18.3	8 29	22 12.07	-30 58.9	1.630	2.594	8.4	19.0
9 8	22 7.29	-15 26.2	0.886	1.871	9.3	18.6	9 8	22 4.64	-31 28.3	1.669	2.594	11.1	19.2
9 18	22 3.53	-16 23.0	0.913	1.860	14.9	18.9	9 18	21 58.71	-31 32.2	1.730	2.594	13.9	19.4
9 28	22 2.62	-16 55.4	0.959	1.851	19.7	19.1	9 28	21 55.05	-31 11.9	1.811	2.595	16.6	19.5
42712	1998 <i>QX</i> ₂₈		8 24.8 307°83	3°5'/28.7	18		339263	2004 <i>VS</i> ₈₈		8 24.9 26°33	4°5'/27.9	16	
7 20	22 32.99	+ 3 27.0	2.073	2.883	14.4	19.1	7 20	22 38.67	- 0 11.4	1.350	2.196	18.8	19.9
7 30	22 30.03	+ 2 52.3	1.970	2.862	11.7	18.9	7 30	22 34.87	+ 0 14.2	1.290	2.204	15.1	19.7
8 9	22 25.30	+ 1 56.3	1.888	2.841	8.6	18.6	8 9	22 28.57	+ 0 19.1	1.249	2.213	10.8	19.5
8 19	22 19.24	+ 0 40.2	1.830	2.820	5.3	18.4	8 19	22 20.49	+ 0 4.1	1.229	2.223	6.5	19.3
8 29	22 12.49	+ 0 51.9	1.799	2.799	3.5	18.2	8 29	22 11.77	+ 0 27.5	1.233	2.234	4.5	19.2
9 8	22 5.89	- 2 33.5	1.795	2.779	5.6	18.3	9 8	22 3.66	- 1 9.1	1.261	2.246	7.3	19.4
9 18	22 0.25	- 4 16.9	1.819	2.759	9.1	18.5	9 18	21 57.28	- 1 53.8	1.313	2.258	11.4	19.7
9 28	21 56.29	- 5 54.4	1.867	2.739	12.5	18.7	9 28	21 53.43	- 2 34.6	1.386	2.271	15.2	19.9
69624	1998 <i>FN</i> ₅₇		8 24.8 183°99	2°4'/26.9	18		140241	2001 <i>SW</i> ₂₄₉		8 24.9 359°01	1°8'/23.3	18	
7 20	22 40.54	- 1 31.3	1.731	2.561	16.0	19.7	7 20	22 37.52	-13 8.2	1.754	2.624	14.0	19.7
7 30	22 35.91	- 1 54.1	1.652	2.562	12.6	19.5	7 30	22 33.60	-13 45.9	1.684	2.623	10.5	19.5
8 9	22 29.09	- 2 35.6	1.595	2.562	8.6	19.2	8 9	22 27.60	-14 32.0	1.637	2.622	6.6	19.3
8 19	22 20.66	- 3 33.1	1.561	2.561	4.5	19.0	8 19	22 20.11	-15 21.5	1.614	2.622	2.7	19.0
8 29	22 11.53	- 4 41.5	1.555	2.560	2.6	18.9	8 29	22 12.03	-16 8.1	1.618	2.622	3.1	19.1
9 8	22 2.78	- 5 53.5	1.575	2.559	6.2	19.1	9 8	22 4.39	-16 45.9	1.649	2.622	7.1	19.3
9 18	21 55.42	- 7 2.3	1.621	2.557	10.3	19.3	9 18	21 58.10	-17 11.0	1.704	2.623	11.0	19.5
9 28	21 50.23	- 8 1.8	1.691	2.554	14.1	19.6	9 28	21 53.91	-17 21.2	1.781	2.624	14.4	19.8
443517	2014 <i>JY</i> ₅₇		8 24.8 55°22	2°6'/22.2	17		114147	2002 <i>VE</i> ₆₃		8 24.9 217°97	3°0'/27.1	18	
7 20	22 36.75	-13 50.4	1.826	2.697	13.5	21.1	7 20	22 41.60	- 2 15.2	1.664	2.498	16.4	20.0
7 30	22 32.78	-15 6.1	1.777	2.717	10.0	21.0	7 30	22 36.83	- 2 6.2	1.585	2.495	13.0	19.7
8 9	22 26.92	-16 29.3	1.751	2.737	6.2	20.8	8 9	22 29.75	- 2 13.5	1.526	2.493	9.0	19.5
8 19	22 19.77	-17 53.2	1.751	2.756	3.0	20.6	8 19	22 20.96	- 2 35.8	1.491	2.490	4.9	19.3
8 29	22 12.21	-19 10.1	1.778	2.777	3.9	20.7	8 29	22 11.42	- 3 9.6	1.482	2.487	3.2	19.1
9 8	22 5.18	-20 13.8	1.832	2.797	7.4	21.0	9 8	22 2.28	- 3 49.5	1.500	2.484	6.5	19.3
9 18	21 59.50	-21 0.4	1.911	2.817	10.8	21.2	9 18	21 54.58	- 4 29.7	1.543	2.480	10.6	19.6
9 28	21 55.77	-21 28.3	2.013	2.838	13.7	21.5	9 28	21 49.18	- 5 4.8	1.609	2.477	14.4	19.8
304342	2006 <i>SX</i> ₂₅₈		8 24.9 204°42	0°4'/25.3	18		106240	2000 <i>UB</i> ₄₇		8 24.9 195°85	5°3'/31.4	18	
7 20	22 38.06	- 7 29.7	2.079	2.925	13.1	21.6	7 20	22 36.12	+10 0.2	2.704	3.452	12.9	19.8
7 30	22 33.68	- 7 51.6	2.001	2.924	10.0	21.4	7 30	22 31.89	+10 6.0	2.611	3.450	10.9	19.7
8 9	22 27.49	- 8 24.4	1.946	2.924	6.5	21.2	8 9	22 26.23	+ 9 54.5	2.539	3.447	8.7	19.5
8 19	22 20.02	- 9 5.0	1.916	2.923	2.6	20.9	8 19	22 19.56	+ 9 25.5	2.491	3.445	6.6	19.4
8 29	22 12.02	- 9 48.9	1.914	2.922	1.6	20.8	8 29	22 12.42	+ 8 40.4	2.469	3.441	5.4	19.3
9 8	22 4.36	-10 31.2	1.940	2.921	5.5	21.1	9 8	22 5.49	+ 7 42.5	2.475	3.438	5.8	19.3
9 18	21 57.82	-11 7.6	1.992	2.920	9.2	21.3	9 18	21 59.38	+ 6 36.2	2.509	3.434	7.7	19.4
9 28	21 53.08	-11 34.8	2.068	2.919	12.4	21.5	9 28	21 54.64	+ 5 27.0	2.569	3.430	9.9	19.6
185623	2008 <i>CJ</i> ₁₃₅		8 24.9 122°31	0°3'/25.1	17		169457	2002 <i>CN</i> ₃₃		8 24.9 265°84	5°6'/21.1	17	
7 20	22 41.40	- 6 42.3	1.687	2.536	15.5	21.3	7 20	22 44.28	-20 56.1	1.379	2.263	16.3	20.2
7 30	22 36.47	- 7 22.7	1.624	2.549	11.8	21.1	7 30	22 39.43	-21 53.3	1.314	2.258	12.5	19.9
8 9	22 29.36	- 8 17.5	1.583	2.561	7.6	20.9	8 9	22 31.65	-22 53.5	1.270	2.252	8.5	19.7
8 19	22 20.73	- 9 22.0	1.566	2.573	2.9	20.6	8 19	22 21.72	-23 47.8	1.249	2.247	5.7	19.5
8 29	22 11.56	-10 29.5	1.577	2.584	1.9	20.6	8 29	22 10.90	-24 26.6	1.253	2.242	7.0	19.6
9 8	22 2.93	-11 32.9	1.614	2.595	6.4	20.9	9 8	22 0.73	-24 43.5	1.281	2.236	10.9	19.8
9 18	21 55.79	-12 26.5	1.678	2.606	10.6	21.2	9 18	21 52.54	-24 36.3	1.331	2.230	15.0	20.0
9 28	21 50.89	-13 6.4	1.764	2.616	14.1	21.4	9 28	21 47.30	-24 6.5	1.401	2.225	18.6	20.2
510270	2011 <i>HE</i> ₈₅		8 24.9 120°00	3°6'/28.7	17		476315	2007 <i>XM</i> ₃₃		8 24.9 301°86	8°9'/ 1.1	18	
7 20	22 36.97	+ 4 11.2	1.835	2.643	16.1	22.1	7 20	22 38.01	+12 6.6	1.872	2.631	17.5	20.8
7 30	22 33.04	+ 3 24.0	1.761	2.651	13.0	21.9	7 30	22 34.10	+13 3.4	1.778	2.617	15.2	20.6
8 9	22 27.17	+ 2 13.3	1.707	2.659	9.3	21.7	8 9	22 28.06	+13 38.4	1.702	2.602	12.7	20.4
8 19	22 19.92	+ 0 41.8	1.677	2.667	5.6	21.5	8 19	22 20.36	+13 48.4	1.646	2.587	10.4	20.2
8 29	22 12.12	- 1 4.8	1.674	2.675	3.6	21.4	8 29	22 11.80	+13 32.1	1.614	2.573	9.0	20.1
9 8	22 4.71	- 2 57.7	1.699	2.682	5.8	21.6	9 8	22 3.40	+12 51.8	1.607	2.559	9.3	20.1
9 18	21 58.55	- 4 48.3	1.751	2.690	9.5	21.8	9 18	21 56.15	+11 52.8	1.623	2.545	11.3	20.2
9 28	21 54.34	- 6 28.7	1.828	2.697	12.9	22.0	9 28	21 50.93	+10 43.1	1.662	2.531	14.0	20.3
439729	2015 <i>DQ</i> ₂₁₄		8 24.9 135°52	0°7'/24.2	17		255548	2006 <i>JM</i> ₂₅		8 24.9 38°78	4°4'/28.2	17	
7 20	22 42.56	-10 58.9	2.106	2.953	12.9	21.6	7 20	22 37.01	+ 1 39.9	1.121	1.976	21.3	20.3
7 30	22 36.93	-11 27.1	2.041	2.966	9.7	21.4	7 30	22 33.99	+ 1 29.6	1.068	1.988	17.0	20.0
8 9	22 29.45	-12 3.3	1.999	2.979	6.1	21.2	8 9	22 28.18	+ 0 50.4	1.032	2.000	12.1	19.8
8 19	22 20.73	-12 43.3	1.983	2.991	2.2	21.0	8 19	22 20.39	- 0 15.0	1.016	2.013	7.1	19.6
8 29	22 11.58	-13 22.3	1.996	3.002	2.1	21.0	8 29	22 11.88	- 1 39.5	1.022	2.026	4.5	19.5
9 8	22 2.89	-13 55.9	2.038	3.013	5.8	21.3	9 8	22 4.11	- 3 12.0	1.052	2.040	7.7	19.7
9 18	21 55.48	-14 20.7	2.106	3.023	9.3	21.5	9 18	21 58.32	- 4 41.1	1.105	2.055	12.5	20.0
9 28	21 49.97	-14 34.6	2.199	3.033	12.3	21.8	9 28	21 55.35	- 5 57.5	1.178	2.070	16.8	20.3
237821	2002 <i>CU</i> ₁₆₀		8 24.9 206°30	2°7'/22.4	17		431316	2006 <i></i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
509121	2005 XE ₄		8 24.9 294°52		5°6/28.9 18		497252	2005 GO ₁₆₀		8 24.9 98°47		6°5/20.2 17	
7 20	22 38.19	+ 3 31.1	1.597	2.416	17.6	21.4	7 20	22 47.26	-24 21.5	1.542	2.417	15.4	21.1
7 30	22 34.54	+ 3 53.9	1.504	2.398	14.6	21.1	7 30	22 41.11	-25 28.5	1.500	2.436	11.8	20.9
8 9	22 28.51	+ 3 55.6	1.430	2.379	11.0	20.8	8 9	22 32.37	-26 32.9	1.479	2.454	8.4	20.8
8 19	22 20.59	+ 3 35.0	1.377	2.361	7.5	20.6	8 19	22 21.90	-27 25.6	1.483	2.472	6.5	20.7
8 29	22 11.68	+ 2 53.7	1.349	2.343	5.6	20.5	8 29	22 10.99	-27 58.8	1.513	2.489	7.7	20.8
9 8	22 2.97	+ 1 56.9	1.345	2.326	7.5	20.5	9 8	22 0.99	-28 8.6	1.568	2.507	10.6	21.0
9 18	21 55.58	+ 0 51.8	1.367	2.308	11.4	20.7	9 18	21 53.00	-27 54.9	1.647	2.523	13.8	21.3
9 28	21 50.51	- 0 13.4	1.410	2.291	15.3	20.9	9 28	21 47.74	-27 20.5	1.745	2.539	16.7	21.5
315973	2009 BJ ₁₄₅		8 24.9 132°47		0°8/24.3 17		53423	1999 RC ₂₃₈		8 24.9 27°37		6°7/18.5 18	
7 20	22 43.54	- 9 55.2	1.515	2.376	16.4	21.7	7 20	22 39.06	-27 0.1	1.858	2.738	13.0	17.6
7 30	22 38.37	-10 32.2	1.453	2.386	12.4	21.4	7 30	22 34.76	-28 13.3	1.808	2.743	10.2	17.4
8 9	22 30.72	-11 21.7	1.412	2.394	7.8	21.2	8 9	22 28.33	-29 23.1	1.780	2.749	7.7	17.3
8 19	22 21.31	-12 18.3	1.395	2.403	2.8	20.9	8 19	22 20.42	-30 21.5	1.778	2.756	6.7	17.3
8 29	22 11.26	-13 14.5	1.404	2.410	2.6	20.9	8 29	22 12.00	-31 1.7	1.800	2.762	7.9	17.3
9 8	22 1.84	-14 3.3	1.440	2.418	7.4	21.2	9 8	22 4.15	-31 19.7	1.848	2.770	10.3	17.5
9 18	21 54.13	-14 39.5	1.500	2.425	11.8	21.5	9 18	21 57.80	-31 14.7	1.918	2.777	13.0	17.7
9 28	21 48.95	-15 0.3	1.582	2.431	15.6	21.8	9 28	21 53.62	-30 48.4	2.009	2.785	15.4	17.9
477873	2011 HZ ₄₉		8 24.9 64°35		1°9/23.3 16		130317	2000 EK ₁₂₄		8 24.9 268°62		0°8/23.9 18	
7 20	22 40.38	-11 34.6	1.537	2.407	15.7	20.9	7 20	22 35.74	-10 47.9	2.457	3.308	11.2	19.8
7 30	22 35.74	-12 36.7	1.494	2.432	11.7	20.7	7 30	22 31.79	-11 27.6	2.369	3.298	8.4	19.6
8 9	22 28.88	-13 48.9	1.473	2.458	7.2	20.5	8 9	22 26.28	-12 15.7	2.305	3.287	5.3	19.4
8 19	22 20.56	-15 4.1	1.476	2.483	2.8	20.3	8 19	22 19.65	-13 8.5	2.268	3.276	1.9	19.2
8 29	22 11.84	-16 14.2	1.505	2.509	3.3	20.4	8 29	22 12.51	-14 1.5	2.260	3.265	2.0	19.2
9 8	22 3.85	-17 12.1	1.561	2.534	7.5	20.7	9 8	22 5.58	-14 49.9	2.279	3.254	5.4	19.4
9 18	21 57.53	-17 53.6	1.642	2.560	11.4	21.0	9 18	21 59.56	-15 30.2	2.326	3.243	8.6	19.6
9 28	21 53.53	-18 17.0	1.744	2.585	14.7	21.3	9 28	21 55.04	-15 59.4	2.398	3.232	11.4	19.7
357536	2004 RV ₂₀₂		8 24.9 78°49		0°4/25.3 18		132490	2002 JB ₂₉		8 24.9 109°04		6°0/31.4 17	
7 20	22 35.89	- 6 31.3	2.200	3.043	12.6	21.3	7 20	22 38.93	+ 9 40.3	2.054	2.819	16.0	20.6
7 30	22 31.94	- 7 7.9	2.126	3.047	9.6	21.1	7 30	22 34.31	+ 9 43.2	1.984	2.836	13.4	20.4
8 9	22 26.36	- 7 56.1	2.075	3.052	6.2	20.9	8 9	22 27.90	+ 9 24.0	1.934	2.852	10.5	20.3
8 19	22 19.62	- 8 52.4	2.050	3.056	2.5	20.7	8 19	22 20.24	+ 8 42.7	1.906	2.868	7.8	20.1
8 29	22 12.44	- 9 52.1	2.053	3.060	1.5	20.6	8 29	22 12.13	+ 7 41.9	1.905	2.883	6.1	20.1
9 8	22 5.58	-10 49.9	2.084	3.065	5.2	20.9	9 8	22 4.44	+ 6 27.0	1.930	2.898	6.7	20.1
9 18	21 59.76	-11 41.1	2.142	3.069	8.6	21.1	9 18	21 57.93	+ 5 4.6	1.982	2.913	9.0	20.3
9 28	21 55.58	-12 22.2	2.224	3.074	11.7	21.3	9 28	21 53.24	+ 3 41.9	2.059	2.927	11.7	20.5
382622	2002 PF ₈₈		8 24.9 110°46		0°2/24.9 17		195585	2002 JS ₁₁₉		8 24.9 135°69		2°2/22.6 18	
7 20	23 2.66	-14 36.9	1.033	1.898	21.9	20.4	7 20	22 38.66	-12 34.7	1.955	2.817	13.2	19.8
7 30	22 53.95	-13 26.1	0.972	1.905	16.9	20.1	7 30	22 34.26	-13 50.1	1.890	2.824	9.8	19.6
8 9	22 41.11	-12 16.9	0.929	1.910	10.9	19.8	8 9	22 27.96	-15 15.0	1.848	2.832	6.1	19.4
8 19	22 25.30	-11 7.0	0.909	1.916	4.2	19.5	8 19	22 20.29	-16 42.8	1.833	2.839	2.7	19.2
8 29	22 8.52	- 9 55.7	0.914	1.922	2.9	19.4	8 29	22 12.10	-18 6.2	1.846	2.846	3.5	19.2
9 8	21 53.11	- 8 43.3	0.945	1.927	9.5	19.8	9 8	22 4.31	-19 18.4	1.886	2.853	7.1	19.5
9 18	21 40.90	- 7 31.5	1.000	1.933	15.5	20.2	9 18	21 57.78	-20 14.7	1.953	2.859	10.6	19.7
9 28	21 32.96	- 6 21.1	1.074	1.937	20.3	20.5	9 28	21 53.17	-20 52.9	2.043	2.865	13.6	19.9
132814	2002 QE ₄₀		8 24.9 37°36		6°2/19.0 18		120554	1995 CW ₅		8 24.9 312°35		0°5/24.4 18	
7 20	22 37.08	-21 11.4	1.540	2.429	14.6	19.2	7 20	22 33.98	- 8 3.9	1.975	2.833	13.2	19.5
7 30	22 33.58	-22 58.9	1.491	2.438	11.1	19.0	7 30	22 30.90	- 8 57.4	1.882	2.813	10.1	19.3
8 9	22 27.72	-24 49.3	1.466	2.447	7.7	18.8	8 9	22 25.95	-10 5.0	1.812	2.794	6.4	19.0
8 19	22 20.19	-26 32.0	1.465	2.457	6.2	18.8	8 19	22 19.59	-11 22.4	1.768	2.776	2.4	18.7
8 29	22 12.06	-27 56.9	1.490	2.467	7.7	18.9	8 29	22 12.54	-12 43.4	1.750	2.757	2.0	18.7
9 8	22 4.52	-28 57.0	1.539	2.477	10.8	19.1	9 8	22 5.68	-14 0.9	1.760	2.739	6.2	18.9
9 18	21 58.61	-29 29.6	1.611	2.488	14.1	19.3	9 18	21 59.87	-15 8.6	1.796	2.721	10.2	19.1
9 28	21 55.10	-29 35.6	1.702	2.499	16.9	19.5	9 28	21 55.86	-16 2.0	1.855	2.703	13.7	19.3
137257	1999 RQ ₈₈		8 24.9 311°91		3°0/27.1 18		292886	2006 VV ₂₇		8 24.9 177°99		1°3/23.7 18	
7 20	22 35.42	- 1 24.6	1.290	2.149	18.8	19.5	7 20	22 38.49	-12 26.2	2.178	3.034	12.2	21.4
7 30	22 32.89	- 1 38.9	1.205	2.130	15.0	19.2	7 30	22 33.96	-13 0.3	2.104	3.035	9.2	21.2
8 9	22 27.69	- 2 17.6	1.137	2.111	10.5	18.9	8 9	22 27.69	-13 41.7	2.053	3.035	5.7	21.0
8 19	22 20.34	- 3 19.3	1.091	2.093	5.5	18.5	8 19	22 20.18	-14 26.2	2.028	3.035	2.2	20.8
8 29	22 11.87	- 4 38.4	1.068	2.075	3.2	18.3	8 29	22 12.18	-15 8.9	2.031	3.035	2.4	20.8
9 8	22 3.66	- 6 5.4	1.070	2.058	7.6	18.6	9 8	22 4.52	-15 45.3	2.062	3.035	6.0	21.1
9 18	21 57.03	- 7 29.8	1.094	2.041	12.9	18.8	9 18	21 57.98	-16 11.8	2.120	3.035	9.4	21.3
9 28	21 53.12	- 8 42.4	1.138	2.025	17.6	19.0	9 28	21 53.19	-16 26.5	2.201	3.035	12.3	21.5
268484	2005 XZ ₇₃		8 24.9 125°39		8°2/13.9 18		513685	2012 BQ ₂₀		8 24.9 328°91		2°4/27.0 18	
7 20	22 40.30	-36 47.2	2.488	3.342	11.0	20.2	7 20	22 38.42	- 2 56.7	2.185	3.010	13.3	21.1
7 30	22 35.42	-38 24.8	2.447	3.349	9.3	20.1	7 30	22 33.90	- 2 48.4	2.102	3.008	10.4	20.9
8 9	22 28.63	-39 53.0	2.431	3.355	8.4	20.0	8 9	22 27.66	- 2 52.3	2.042	3.007	7.2	20.7
8 19	22 20.49	-41 5.0	2.440	3.361	8.4	20.0	8 19	22 20.18	- 3 6.9	2.007	3.005	3.9	20.5
8 29	22 11.85	-41 55.1	2.474	3.368	9.4	20.1	8 29	22 12.18	- 3 29.7	1.999	3.004	2.5	20.4
9 8	22 3.65	-42 20.6	2.532	3.374	10.9	20.2	9 8	22 4.47	- 3 56.9	2.020	3.002	5.2	20.5
9 18	21 56.73	-42 21.7	2.612	3.380	12.5	20.4	9 18	21 57.83	- 4 24.6	2.067	3.001	8.5	20.7
9 28	21 51.74	-42 0.6	2.711	3.385	14.1	20.5	9 28	21 52.90	- 4 48.9	2.138	3.000	11.6	20.9
340283	2006 BG ₂₆₅		8 24.9 337°93		0°1/24.8 18		77180						

EPHEMERIDES

8 24.9

8 24.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
25996	2001 <i>FN</i> ₈₄		8 24.9 343°43	0°4/25.2	18		68210	2001 <i>CQ</i> ₇		8 24.9 126°69	1°1/23.8	18	
7 20	22 31.58	- 6 17.9	1.046	1.939	19.6	17.9	7 20	22 39.90	-13 23.8	2.469	3.319	11.2	19.5
7 30	22 30.33	- 6 52.9	0.978	1.926	15.2	17.6	7 30	22 34.76	-13 40.2	2.398	3.325	8.4	19.3
8 9	22 26.20	- 7 51.7	0.927	1.915	9.9	17.3	8 9	22 28.07	-14 1.4	2.350	3.332	5.2	19.1
8 19	22 19.82	- 9 9.3	0.896	1.904	3.9	16.9	8 19	22 20.31	-14 24.2	2.330	3.338	2.0	18.9
8 29	22 12.39	-10 36.0	0.887	1.896	2.5	16.8	8 29	22 12.16	-14 45.0	2.339	3.344	2.1	18.9
9 8	22 5.44	-11 59.6	0.900	1.888	8.7	17.1	9 8	22 4.38	-15 0.6	2.376	3.349	5.3	19.1
9 18	22 0.39	-13 9.4	0.934	1.883	14.4	17.4	9 18	21 57.64	-15 8.6	2.441	3.355	8.4	19.3
9 28	21 58.31	-13 57.9	0.986	1.878	19.3	17.7	9 28	21 52.50	-15 7.8	2.530	3.360	11.0	19.5
358425	2007 <i>DV</i> ₄		8 24.9 121°46	1°7/22.7	18		343349	2010 <i>CK</i> ₆₀		8 24.9 229°79	1°4/26.3	18	
7 20	22 37.28	-13 48.0	2.649	3.502	10.4	21.8	7 20	22 37.88	- 3 15.3	1.978	2.811	14.2	21.2
7 30	22 32.70	-14 44.5	2.587	3.517	7.7	21.6	7 30	22 33.77	- 3 53.3	1.890	2.804	11.0	21.0
8 9	22 26.71	-15 46.3	2.550	3.532	4.8	21.5	8 9	22 27.73	- 4 47.7	1.825	2.796	7.4	20.8
8 19	22 19.77	-16 49.0	2.541	3.547	2.1	21.3	8 19	22 20.27	- 5 55.4	1.785	2.788	3.4	20.5
8 29	22 12.49	-17 48.0	2.561	3.561	2.7	21.4	8 29	22 12.14	- 7 11.2	1.772	2.779	1.8	20.4
9 8	22 5.55	-18 39.0	2.610	3.574	5.5	21.6	9 8	22 4.28	- 8 28.3	1.787	2.770	5.7	20.6
9 18	21 59.53	-19 19.1	2.686	3.587	8.2	21.8	9 18	21 57.54	- 9 40.3	1.829	2.761	9.6	20.8
9 28	21 54.96	-19 46.7	2.787	3.600	10.6	22.0	9 28	21 52.67	-10 41.8	1.895	2.752	13.1	21.1
361505	2007 <i>EO</i> ₁₁₄		8 24.9 121°02	2°9/28.6	18		449026	2012 <i>BR</i> ₁₄₄		8 24.9 311°24	1°3/26.1	18	
7 20	22 35.99	+ 2 19.7	2.746	3.538	11.7	21.6	7 20	22 39.61	- 6 15.6	2.241	3.075	12.7	21.3
7 30	22 31.67	+ 2 1.8	2.671	3.552	9.4	21.4	7 30	22 34.75	- 6 8.5	2.159	3.074	9.8	21.1
8 9	22 26.04	+ 1 30.3	2.618	3.566	6.8	21.3	8 9	22 28.18	- 6 10.9	2.100	3.072	6.5	20.9
8 19	22 19.52	+ 0 46.7	2.592	3.579	4.2	21.1	8 19	22 20.39	- 6 21.1	2.067	3.070	3.0	20.7
8 29	22 12.67	- 0 6.2	2.594	3.592	2.9	21.0	8 29	22 12.09	- 6 36.2	2.062	3.069	1.8	20.6
9 8	22 6.10	- 1 4.3	2.625	3.604	4.4	21.2	9 8	22 4.10	- 6 52.9	2.085	3.067	5.1	20.9
9 18	22 0.37	- 2 3.4	2.684	3.617	6.9	21.3	9 18	21 57.19	- 7 7.9	2.135	3.065	8.5	21.1
9 28	21 55.97	- 2 59.3	2.770	3.629	9.3	21.5	9 28	21 51.98	- 7 18.3	2.209	3.064	11.5	21.3
443070	2013 <i>GO</i> ₁₁		8 24.9 224°68	3°6/28.8	18		514566	2017 <i>YK</i>		8 24.9 169°39	8°2/12.1	18	
7 20	22 36.02	+ 3 1.7	2.329	3.128	13.4	21.7	7 20	22 43.73	-43 43.5	3.128	3.948	9.8	22.0
7 30	22 32.04	+ 2 51.4	2.240	3.124	10.8	21.5	7 30	22 37.78	-45 2.8	3.089	3.952	8.8	21.9
8 9	22 26.47	+ 2 24.5	2.173	3.120	8.0	21.3	8 9	22 30.04	-46 10.6	3.074	3.956	8.2	21.9
8 19	22 19.74	+ 1 42.2	2.130	3.116	5.1	21.1	8 19	22 21.06	-47 1.6	3.085	3.959	8.4	21.9
8 29	22 12.50	+ 0 47.3	2.115	3.112	3.6	21.0	8 29	22 11.63	-47 31.5	3.120	3.961	9.1	22.0
9 8	22 5.49	- 0 15.6	2.127	3.107	5.2	21.1	9 8	22 2.62	-47 38.9	3.178	3.963	10.2	22.1
9 18	21 59.42	- 1 21.3	2.167	3.103	8.1	21.3	9 18	21 54.82	-47 24.4	3.257	3.965	11.4	22.2
9 28	21 54.90	- 2 24.3	2.232	3.098	11.0	21.5	9 28	21 48.85	-46 50.5	3.354	3.966	12.5	22.3
518272	2016 <i>WA</i> ₅₇		8 24.9 246°98	2°1/27.2	18		181227	2005 <i>TK</i> ₃₆		8 24.9 5°78	0°5/24.4	18	
7 20	22 36.09	- 1 13.2	2.310	3.129	12.8	21.8	7 20	22 37.39	-10 3.7	1.897	2.756	13.6	20.6
7 30	22 32.14	- 1 37.8	2.218	3.120	10.1	21.6	7 30	22 33.37	-10 31.2	1.825	2.757	10.3	20.4
8 9	22 26.56	- 2 17.3	2.148	3.111	7.0	21.3	8 9	22 27.43	-11 8.6	1.775	2.757	6.5	20.1
8 19	22 19.79	- 3 9.5	2.103	3.101	3.8	21.1	8 19	22 20.13	-11 52.0	1.750	2.758	2.4	19.9
8 29	22 12.46	- 4 10.8	2.087	3.092	2.2	21.0	8 29	22 12.28	-12 36.1	1.752	2.759	2.0	19.9
9 8	22 5.35	- 5 16.1	2.098	3.082	4.9	21.2	9 8	22 4.82	-13 15.7	1.781	2.760	6.1	20.1
9 18	21 59.16	- 6 20.1	2.138	3.072	8.3	21.4	9 18	21 58.59	-13 46.4	1.835	2.761	9.9	20.4
9 28	21 54.55	- 7 18.0	2.202	3.061	11.4	21.5	9 28	21 54.29	-14 5.5	1.913	2.763	13.2	20.6
1001	Gaussia		8 24.9 302°63	4°5/29.3	18		17935	Vinhoward		8 24.9 358°09	3°3/27.4	18	
7 20	22 36.17	+ 3 55.9	2.275	3.070	13.8	14.7	7 20	22 32.56	- 0 55.9	1.197	2.064	19.4	17.8
7 30	22 32.26	+ 4 12.0	2.180	3.059	11.3	14.5	7 30	22 30.66	- 1 7.7	1.131	2.060	15.4	17.6
8 9	22 26.67	+ 4 12.3	2.107	3.047	8.6	14.3	8 9	22 26.18	- 1 44.7	1.082	2.057	10.8	17.3
8 19	22 19.84	+ 3 56.7	2.057	3.036	5.9	14.1	8 19	22 19.76	- 2 44.6	1.054	2.055	5.8	17.0
8 29	22 12.42	+ 3 26.8	2.034	3.025	4.5	14.0	8 29	22 12.51	- 4 0.9	1.048	2.055	3.4	16.9
9 8	22 5.20	+ 2 46.1	2.038	3.014	5.8	14.1	9 8	22 5.76	- 5 23.7	1.066	2.055	7.4	17.1
9 18	21 58.92	+ 1 59.1	2.069	3.003	8.5	14.3	9 18	22 0.72	- 6 42.7	1.106	2.058	12.3	17.4
9 28	21 54.23	+ 1 11.0	2.124	2.993	11.4	14.4	9 28	21 58.30	- 7 49.3	1.167	2.061	16.7	17.7
1626	Sadeya		8 24.9 303°32	18°6/31.6	18		199378	2006 <i>BA</i> ₂₂₄		8 24.9 18°03	1°1/25.7	18	
7 20	22 45.40	+24 1.7	1.573	2.254	23.1	15.0	7 20	22 38.17	- 6 23.5	1.406	2.271	17.2	20.2
7 30	22 40.97	+26 53.0	1.472	2.223	21.8	14.8	7 30	22 34.50	- 6 33.7	1.342	2.274	13.2	20.0
8 9	22 33.35	+29 24.4	1.388	2.191	20.4	14.6	8 9	22 28.39	- 6 59.6	1.299	2.279	8.7	19.7
8 19	22 22.77	+31 24.7	1.320	2.159	19.3	14.4	8 19	22 20.54	- 7 37.8	1.278	2.284	3.7	19.5
8 29	22 10.12	+32 43.4	1.270	2.128	18.7	14.3	8 29	22 12.01	- 8 22.3	1.281	2.289	2.1	19.4
9 8	21 56.88	+33 14.4	1.238	2.096	18.9	14.2	9 8	22 4.04	- 9 6.3	1.310	2.296	6.9	19.7
9 18	21 44.82	+32 57.7	1.225	2.065	20.0	14.2	9 18	21 57.73	- 9 43.6	1.363	2.303	11.5	20.0
9 28	21 35.63	+32 1.0	1.228	2.034	21.7	14.2	9 28	21 53.88	-10 9.7	1.437	2.310	15.5	20.3
260691	2005 <i>JP</i> ₉₈		8 24.9 258°53	0°7/24.3	18		38613	2000 <i>AV</i> ₁₁₀		8 24.9 37°94	5°7/ 1.1	18	
7 20	22 39.00	- 8 20.1	1.586	2.448	15.7	20.6	7 20	22 34.56	+10 52.6	2.796	3.539	12.7	17.9
7 30	22 35.13	- 9 14.8	1.503	2.436	12.0	20.3	7 30	22 30.66	+11 18.6	2.717	3.548	10.8	17.8
8 9	22 28.87	-10 26.0	1.441	2.424	7.6	20.1	8 9	22 25.46	+11 28.5	2.658	3.557	8.8	17.7
8 19	22 20.76	-11 48.5	1.404	2.412	2.8	19.7	8 19	22 19.34	+11 21.8	2.622	3.566	6.9	17.6
8 29	22 11.76	-13 14.0	1.393	2.399	2.5	19.7	8 29	22 12.85	+10 59.3	2.613	3.575	5.8	17.5
9 8	22 3.07	-14 33.8	1.408	2.387	7.5	20.0	9 8	22 6.60	+10 23.6	2.630	3.584	6.0	17.5
9 18	21 55.80	-15 40.3	1.448	2.374	12.1	20.2	9 18	22 1.15	+ 9 38.4	2.674	3.594	7.5	17.7
9 28	21 50.90	-16 28.8	1.510	2.361	16.1	20.4	9 28	21 56.99	+ 8 48.2	2.743	3.604	9.4	17.8
90216	2003 <i>AS</i> ₈₅		8 24.9 270°34	15°2/ 8.2	17		2908						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
511255	2014 <i>BM</i> ₆₁		8 24.9 255°31	2°2/23.1	18		316960	2001 <i>FU</i> ₂₇		8 24.9 64°69	3°3/22.9	17	
7 20	22 39.65	-13 48.4	1.776	2.644	14.0	21.6	7 20	22 46.62	-16 50.4	1.325	2.203	17.2	19.7
7 30	22 35.25	-14 32.5	1.705	2.643	10.5	21.3	7 30	22 40.80	-17 18.4	1.282	2.224	12.9	19.5
8 9	22 28.72	-15 24.7	1.657	2.642	6.6	21.1	8 9	22 32.26	-17 51.1	1.260	2.245	8.2	19.3
8 19	22 20.64	-16 19.5	1.634	2.641	2.8	20.9	8 19	22 21.95	-18 21.4	1.260	2.266	3.9	19.1
8 29	22 11.94	-17 10.3	1.638	2.640	3.4	20.9	8 29	22 11.20	-18 42.2	1.287	2.287	4.6	19.2
9 8	22 3.68	-17 51.1	1.668	2.639	7.4	21.2	9 8	22 1.47	-18 48.8	1.338	2.308	8.8	19.5
9 18	21 56.80	-18 17.9	1.723	2.638	11.2	21.4	9 18	21 53.86	-18 39.6	1.413	2.329	13.0	19.8
9 28	21 52.06	-18 28.9	1.801	2.637	14.6	21.6	9 28	21 49.11	-18 15.1	1.508	2.351	16.6	20.1
330060	2005 <i>UM</i> ₄₉₁		8 24.9 356°89	13°3/16.3	17		522929	2016 <i>PT</i> ₁₁₁		8 24.9 171°55	0°2/24.8	18	
7 20	22 37.50	-33 33.5	0.972	1.883	19.2	18.7	7 20	22 40.97	-9 43.6	1.925	2.776	13.8	21.4
7 30	22 35.43	-35 7.4	0.930	1.875	16.1	18.5	7 30	22 36.06	-9 58.8	1.850	2.777	10.5	21.2
8 9	22 29.63	-36 27.6	0.906	1.870	13.9	18.3	8 9	22 29.15	-10 23.5	1.798	2.778	6.7	21.0
8 19	22 21.11	-37 19.2	0.901	1.867	13.4	18.3	8 19	22 20.81	-10 54.1	1.771	2.778	2.5	20.7
8 29	22 11.66	-37 30.2	0.915	1.866	14.9	18.4	8 29	22 11.90	-11 26.2	1.771	2.779	1.8	20.7
9 8	22 3.33	-36 56.7	0.946	1.866	17.8	18.6	9 8	22 3.40	-11 54.8	1.799	2.779	6.0	21.0
9 18	21 57.70	-35 42.4	0.994	1.869	20.9	18.8	9 18	21 56.19	-12 16.3	1.853	2.779	9.9	21.2
9 28	21 55.72	-33 55.6	1.058	1.873	23.9	19.0	9 28	21 50.98	-12 27.9	1.931	2.779	13.2	21.4
412538	2014 <i>MN</i> ₅₁		8 24.9 327°69	2°1/27.4	18		81420	2000 <i>GQ</i> ₁₀₀		8 24.9 141°39	2°2/22.9	18	
7 20	22 32.73	+0 33.0	2.111	2.934	13.8	20.3	7 20	22 41.86	-15 59.3	2.275	3.130	11.8	20.1
7 30	22 29.77	-0 22.3	2.021	2.925	10.9	20.1	7 30	22 36.39	-16 30.4	2.208	3.139	8.8	19.9
8 9	22 25.14	-1 36.9	1.953	2.917	7.5	19.9	8 9	22 29.18	-17 5.4	2.166	3.147	5.6	19.7
8 19	22 19.29	-3 8.2	1.910	2.909	4.0	19.7	8 19	22 20.79	-17 39.9	2.150	3.155	2.6	19.5
8 29	22 12.87	-4 50.5	1.896	2.901	2.2	19.6	8 29	22 11.98	-18 9.3	2.163	3.163	3.1	19.6
9 8	22 6.68	-6 36.5	1.909	2.894	5.1	19.7	9 8	22 3.60	-18 30.0	2.204	3.170	6.2	19.8
9 18	22 1.47	-8 18.8	1.950	2.887	8.8	19.9	9 18	21 56.40	-18 39.6	2.272	3.176	9.4	20.0
9 28	21 57.87	-9 50.8	2.016	2.881	12.1	20.1	9 28	21 50.98	-18 37.3	2.364	3.183	12.1	20.2
95918	2003 <i>HQ</i> ₄₈		8 24.9 61°12	3°1/27.6	18		330601	2008 <i>DG</i> ₁₉		8 24.9 111°51	0°1/25.0	17	
7 20	22 38.26	-0 14.6	1.578	2.414	17.0	19.8	7 20	22 41.27	-6 46.3	1.645	2.496	15.8	21.4
7 30	22 34.28	-0 29.7	1.515	2.425	13.5	19.6	7 30	22 36.47	-7 33.7	1.585	2.511	12.0	21.2
8 9	22 28.12	-1 5.0	1.471	2.436	9.4	19.4	8 9	22 29.47	-8 36.0	1.546	2.525	7.6	21.0
8 19	22 20.41	-1 58.1	1.450	2.448	5.2	19.2	8 19	22 20.94	-9 47.9	1.532	2.539	2.9	20.7
8 29	22 12.14	-3 3.5	1.455	2.460	3.2	19.1	8 29	22 11.87	-11 2.3	1.545	2.553	1.9	20.7
9 8	22 4.38	-4 13.9	1.486	2.472	6.3	19.3	9 8	22 3.37	-12 11.5	1.585	2.566	6.6	21.0
9 18	21 58.11	-5 21.9	1.542	2.483	10.3	19.6	9 18	21 56.40	-13 9.6	1.651	2.579	10.7	21.3
9 28	21 54.06	-6 21.1	1.621	2.495	14.0	19.8	9 28	21 51.67	-13 52.6	1.740	2.591	14.3	21.6
33124	1998 <i>BN</i> ₃₃		8 24.9 308°44	5°7/20.7	18		381564	2008 <i>UW</i> ₅		8 24.9 202°73	3°8/27.4	18	
7 20	22 40.67	-21 20.8	1.457	2.344	15.4	16.8	7 20	22 51.18	+0 2.0	1.735	2.539	17.0	22.2
7 30	22 36.82	-22 16.9	1.376	2.321	11.9	16.5	7 30	22 44.26	+0 10.4	1.642	2.533	13.7	22.0
8 9	22 30.18	-23 17.0	1.316	2.298	8.2	16.3	8 9	22 34.68	+0 0.9	1.571	2.526	9.8	21.7
8 19	22 21.34	-24 12.5	1.279	2.276	5.8	16.1	8 19	22 23.04	-0 25.9	1.523	2.516	5.7	21.5
8 29	22 11.42	-24 54.0	1.266	2.254	7.2	16.1	8 29	22 10.37	-1 7.0	1.504	2.505	3.9	21.3
9 8	22 1.86	-25 14.3	1.278	2.232	11.0	16.3	9 8	21 57.97	-1 56.9	1.513	2.493	7.0	21.5
9 18	21 54.00	-25 10.1	1.312	2.211	15.1	16.5	9 18	21 47.10	-2 49.2	1.550	2.478	11.3	21.7
9 28	21 48.93	-24 41.7	1.365	2.191	18.9	16.6	9 28	21 38.76	-3 37.4	1.610	2.461	15.3	21.9
68134	2001 <i>AT</i> ₁₈		8 24.9 326°87	26°2/24.4	18		145624	2006 <i>QB</i> ₁₀₂		8 24.9 309°09	1°1/25.8	18	
7 20	22 44.11	+27 29.0	1.215	1.909	28.2	17.3	7 20	22 36.96	-5 36.2	1.823	2.672	14.5	20.5
7 30	22 41.03	+31 52.8	1.135	1.877	27.4	17.1	7 30	22 33.24	-5 57.2	1.740	2.663	11.3	20.2
8 9	22 34.12	+35 57.7	1.068	1.847	26.7	16.9	8 9	22 27.50	-6 32.6	1.677	2.653	7.4	20.0
8 19	22 23.37	+39 27.4	1.017	1.818	26.3	16.7	8 19	22 20.26	-7 19.4	1.639	2.644	3.2	19.7
8 29	22 9.62	+42 5.1	0.979	1.790	26.3	16.6	8 29	22 12.33	-8 12.6	1.628	2.636	1.8	19.6
9 8	21 54.74	+43 39.6	0.955	1.764	26.7	16.5	9 8	22 4.70	-9 6.3	1.643	2.627	6.0	19.8
9 18	21 41.18	+44 8.3	0.942	1.740	27.6	16.5	9 18	21 58.28	-9 54.8	1.684	2.618	10.1	20.1
9 28	21 31.45	+43 38.7	0.940	1.717	28.8	16.5	9 28	21 53.84	-10 33.4	1.748	2.610	13.7	20.3
285838	2001 <i>FA</i> ₁		8 24.9 198°66	7°5/1.8	18		116413	2003 <i>YM</i> ₁₃₉		8 24.9 210°24	2°7/27.2	18	
7 20	22 45.62	+16 28.0	1.839	2.557	19.1	22.2	7 20	22 41.92	-2 28.4	2.126	2.944	13.8	20.1
7 30	22 39.94	+15 41.5	1.737	2.553	16.5	22.0	7 30	22 36.66	-2 12.1	2.040	2.941	11.0	19.9
8 9	22 31.85	+14 19.7	1.654	2.548	13.4	21.8	8 9	22 29.51	-2 8.1	1.975	2.937	7.6	19.7
8 19	22 21.91	+12 20.7	1.592	2.541	10.1	21.6	8 19	22 20.98	-2 15.3	1.937	2.933	4.3	19.5
8 29	22 11.05	+9 47.5	1.558	2.532	7.8	21.4	8 29	22 11.85	-2 31.7	1.926	2.929	2.8	19.4
9 8	22 0.45	+6 49.7	1.554	2.521	8.1	21.4	9 8	22 3.01	-2 53.5	1.943	2.924	5.5	19.5
9 18	21 51.24	+3 40.9	1.579	2.509	11.0	21.6	9 18	21 55.32	-3 17.0	1.987	2.919	8.9	19.7
9 28	21 44.33	+0 35.8	1.633	2.496	14.5	21.8	9 28	21 49.46	-3 38.1	2.056	2.914	12.1	19.9
101347	1998 <i>TZ</i> ₁₅		8 24.9 43°97	4°8/28.6	17		480707	2015 <i>PO</i> ₂₈₈		8 24.9 122°00	4°6/20.1	18	
7 20	22 38.55	+2 15.9	1.400	2.233	18.9	19.2	7 20	22 39.25	-22 31.0	2.207	3.077	11.6	20.8
7 30	22 34.79	+2 22.0	1.336	2.240	15.3	19.0	7 30	22 34.60	-23 33.5	2.146	3.081	8.8	20.6
8 9	22 28.60	+2 4.3	1.290	2.248	11.1	18.8	8 9	22 28.15	-24 36.2	2.109	3.086	6.1	20.4
8 19	22 20.64	+1 23.7	1.265	2.256	7.0	18.6	8 19	22 20.44	-25 33.2	2.099	3.090	4.6	20.4
8 29	22 11.99	+0 24.8	1.265	2.265	4.8	18.5	8 29	22 12.26	-26 18.5	2.116	3.094	5.6	20.4
9 8	22 3.89	-0 45.0	1.290	2.274	7.2	18.7	9 8	22 4.50	-26 47.9	2.160	3.098	8.1	20.6
9 18	21 57.43	-1 56.8	1.338	2.283	11.2	18.9	9 18	21 57.94	-26 59.8	2.228	3.102	10.8	20.8
9 28	21 53.46	-3 2.7	1.409	2.292	15.1	19.2	9 28	21 53.22	-26 54.1	2.319	3.106	13.3	21.0
352889	2008 <i>YF</i> ₃₅		8 24.9 305°57	2°5/22.5	18		467471	2006 <i>QN</i> ₁₁₃		8 24.9 4°66	7°1/21		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
148510	2001 <i>OW</i> ₆₁		8 24.9 335°03	0°6/24.6	18		145702	4274 <i>T</i> ₋₃		8 24.9 287°29	1°0/24.2	18	
7 20	22 37.72	-11 47.5	1.120	2.012	18.6	18.7	7 20	22 39.54	-9 50.1	1.513	2.381	16.0	20.3
7 30	22 35.06	-11 39.9	1.043	1.993	14.4	18.4	7 30	22 35.86	-10 31.3	1.420	2.357	12.3	20.0
8 9	22 29.32	-11 43.3	0.985	1.974	9.2	18.1	8 9	22 29.59	-11 28.0	1.348	2.332	7.9	19.6
8 19	22 21.12	-11 53.9	0.948	1.957	3.5	17.7	8 19	22 21.23	-12 35.3	1.300	2.308	2.9	19.3
8 29	22 11.73	-12 5.6	0.933	1.941	2.8	17.6	8 29	22 11.76	-13 45.6	1.277	2.283	2.8	19.2
9 8	22 2.76	-12 11.8	0.940	1.926	8.8	17.9	9 8	22 2.45	-14 50.2	1.280	2.259	8.0	19.5
9 18	21 55.76	-12 7.9	0.968	1.913	14.5	18.2	9 18	21 54.58	-15 41.8	1.306	2.234	13.0	19.7
9 28	21 51.88	-11 50.6	1.015	1.902	19.4	18.4	9 28	21 49.24	-16 15.7	1.354	2.209	17.4	19.9
266221	2006 <i>WA</i> ₂₀₀		8 24.9	4°36	2°5/26.5	17	451372	2011 <i>AQ</i> ₂₁		8 24.9 288°21	1°4/26.2	17	
7 20	22 37.03	-4 40.6	1.117	1.994	19.8	19.6	7 20	22 38.94	-5 50.0	2.314	3.146	12.4	21.5
7 30	22 34.23	-4 30.2	1.057	1.993	15.5	19.4	7 30	22 34.41	-5 46.4	2.213	3.126	9.7	21.2
8 9	22 28.55	-4 39.7	1.013	1.993	10.5	19.1	8 9	22 28.13	-5 52.6	2.135	3.106	6.5	21.0
8 19	22 20.74	-5 6.8	0.990	1.994	5.1	18.8	8 19	22 20.54	-6 7.0	2.082	3.085	3.1	20.7
8 29	22 12.06	-5 45.8	0.990	1.997	2.9	18.7	8 29	22 12.29	-6 27.0	2.058	3.065	1.8	20.6
9 8	22 4.02	-6 28.9	1.012	2.001	7.8	19.0	9 8	22 4.21	-6 49.1	2.062	3.044	5.1	20.8
9 18	21 57.93	-7 8.2	1.056	2.005	13.0	19.3	9 18	21 57.07	-7 9.6	2.093	3.024	8.6	21.0
9 28	21 54.76	-7 37.4	1.119	2.011	17.5	19.6	9 28	21 51.56	-7 25.5	2.148	3.003	11.8	21.2
45448	2000 <i>AJ</i> ₁₈₈		8 24.9 343°54	0°1/24.9	18		480157	2015 <i>FG</i> ₂₉₀		8 24.9 57°90	3°2/22.4	17	
7 20	22 32.73	-4 16.3	1.202	2.079	18.7	17.7	7 20	22 40.61	-15 36.3	1.528	2.405	15.4	20.3
7 30	22 30.90	-5 32.4	1.132	2.072	14.4	17.5	7 30	22 36.11	-16 33.6	1.481	2.423	11.4	20.1
8 9	22 26.44	-7 15.8	1.081	2.065	9.3	17.2	8 9	22 29.31	-17 37.4	1.455	2.441	7.2	19.9
8 19	22 19.97	-9 19.7	1.052	2.060	3.6	16.8	8 19	22 20.94	-18 40.4	1.454	2.459	3.6	19.7
8 29	22 12.56	-11 32.3	1.047	2.055	2.4	16.7	8 29	22 12.11	-19 34.6	1.478	2.477	4.5	19.8
9 8	22 5.60	-13 39.3	1.066	2.051	8.3	17.1	9 8	22 3.98	-20 14.0	1.529	2.495	8.3	20.1
9 18	22 0.33	-15 28.5	1.108	2.047	13.6	17.4	9 18	21 57.53	-20 35.4	1.603	2.514	12.1	20.4
9 28	21 57.75	-16 51.7	1.170	2.045	18.2	17.6	9 28	21 53.47	-20 38.3	1.698	2.532	15.4	20.6
143838	2003 <i>XT</i> ₇		8 24.9 288°54	4°5/28.2	18		427995	2006 <i>BZ</i> ₁₄		8 24.9 73°46	3°5/21.6	18	
7 20	22 38.99	+ 1 20.7	1.462	2.295	18.3	20.1	7 20	22 40.16	-14 47.6	1.648	2.521	14.7	20.5
7 30	22 35.31	+ 1 29.1	1.379	2.285	14.8	19.8	7 30	22 35.61	-16 23.9	1.606	2.547	10.8	20.3
8 9	22 29.12	+ 1 15.4	1.315	2.275	10.8	19.6	8 9	22 28.91	-18 7.4	1.588	2.572	6.8	20.2
8 19	22 20.98	+ 0 39.7	1.272	2.265	6.7	19.3	8 19	22 20.78	-19 49.3	1.595	2.598	3.7	20.0
8 29	22 11.89	-0 14.6	1.254	2.255	4.6	19.2	8 29	22 12.23	-21 20.2	1.629	2.623	4.9	20.2
9 8	22 3.11	-1 20.7	1.261	2.245	7.3	19.3	9 8	22 4.34	-22 33.0	1.690	2.648	8.4	20.4
9 18	21 55.85	-2 30.2	1.292	2.236	11.6	19.5	9 18	21 58.01	-23 24.1	1.775	2.673	11.9	20.7
9 28	21 51.08	-3 34.9	1.345	2.226	15.8	19.7	9 28	21 53.90	-23 52.8	1.882	2.698	14.9	21.0
244435	2002 <i>QT</i> ₁₂₁		8 24.9	1°96	2°3/26.8	18	280054	2002 <i>CM</i> ₃₀		8 24.9 96°34	2°8/22.7	17	
7 20	22 39.10	-3 32.3	1.758	2.598	15.4	20.7	7 20	22 43.01	-15 58.1	1.787	2.653	14.0	20.7
7 30	22 34.85	-3 30.1	1.682	2.597	12.1	20.5	7 30	22 37.64	-16 41.9	1.733	2.669	10.5	20.5
8 9	22 28.51	-3 42.7	1.627	2.597	8.2	20.3	8 9	22 30.16	-17 30.7	1.702	2.685	6.6	20.3
8 19	22 20.65	-4 8.3	1.596	2.597	4.2	20.1	8 19	22 21.25	-18 18.6	1.697	2.701	3.2	20.1
8 29	22 12.16	-4 42.9	1.592	2.598	2.5	20.0	8 29	22 11.91	-18 59.3	1.718	2.717	3.9	20.2
9 8	22 4.06	-5 21.5	1.613	2.598	6.0	20.2	9 8	22 3.19	-19 27.8	1.767	2.733	7.5	20.5
9 18	21 57.29	-5 58.7	1.661	2.599	10.0	20.4	9 18	21 56.00	-19 41.7	1.841	2.748	11.0	20.7
9 28	21 52.61	-6 29.8	1.731	2.600	13.5	20.6	9 28	21 51.00	-19 40.2	1.937	2.763	14.1	20.9
320249	2007 <i>LB</i> ₁₆		8 24.9 179°74	4°8/31.5	18		141464	2002 <i>CS</i> ₁₄₀		8 24.9 248°67	3°8/28.6	18	
7 20	22 34.92	+ 9 42.2	2.833	3.582	12.4	21.0	7 20	22 38.05	+ 2 1.5	2.264	3.066	13.6	20.3
7 30	22 30.98	+ 9 35.5	2.742	3.583	10.4	20.8	7 30	22 33.69	+ 2 13.2	2.175	3.061	11.0	20.1
8 9	22 25.72	+ 9 11.9	2.672	3.583	8.2	20.7	8 9	22 27.63	+ 2 10.0	2.108	3.056	8.1	19.9
8 19	22 19.53	+ 8 31.7	2.626	3.583	6.1	20.5	8 19	22 20.33	+ 1 52.4	2.065	3.051	5.3	19.7
8 29	22 12.94	+ 7 36.5	2.607	3.583	4.9	20.5	8 29	22 12.48	+ 1 22.3	2.050	3.046	3.8	19.6
9 8	22 6.55	+ 6 30.0	2.617	3.583	5.3	20.5	9 8	22 4.87	+ 0 43.4	2.062	3.041	5.5	19.7
9 18	22 0.93	+ 5 16.8	2.654	3.582	7.2	20.6	9 18	21 58.25	+ 0 0.3	2.101	3.035	8.4	19.9
9 28	21 56.58	+ 4 1.9	2.718	3.581	9.3	20.8	9 28	21 53.26	-0 42.2	2.165	3.030	11.3	20.1
98221	2000 <i>SL</i> ₁₄₃		8 24.9 162°96	5°8/31.2	18		431974	2008 <i>UO</i> ₁₅₀		8 24.9 75°38	8°4/18.5	17	
7 20	22 40.25	+ 9 33.7	2.386	3.137	14.4	20.1	7 20	22 46.36	-30 39.4	1.665	2.537	14.6	20.5
7 30	22 35.20	+ 9 46.4	2.302	3.144	12.1	19.9	7 30	22 40.49	-31 48.7	1.625	2.552	11.7	20.4
8 9	22 28.50	+ 9 40.2	2.238	3.150	9.6	19.8	8 9	22 32.08	-32 49.7	1.607	2.566	9.3	20.3
8 19	22 20.61	+ 9 14.9	2.198	3.155	7.2	19.6	8 19	22 21.98	-33 33.6	1.613	2.580	8.4	20.3
8 29	22 12.21	+ 8 31.8	2.185	3.159	5.8	19.6	8 29	22 11.45	-33 53.4	1.644	2.595	9.4	20.4
9 8	22 4.10	+ 7 34.7	2.200	3.163	6.4	19.6	9 8	22 1.79	-33 46.4	1.699	2.609	11.8	20.5
9 18	21 56.99	+ 6 28.8	2.242	3.166	8.5	19.7	9 18	21 54.09	-33 13.9	1.776	2.624	14.4	20.8
9 28	21 51.52	+ 5 20.1	2.309	3.169	10.9	19.9	9 28	21 49.04	-32 19.9	1.872	2.638	16.7	21.0
128996	2004 <i>TN</i> ₂₃₆		8 24.9 312°16	2°2/26.8	18		92105	1999 <i>XB</i> ₅₄		8 24.9 297°98	0°4/24.5	18	
7 20	22 38.73	-3 49.3	2.174	3.003	13.2	19.8	7 20	22 36.45	-9 32.9	2.131	2.985	12.6	19.5
7 30	22 34.24	-3 37.5	2.087	2.996	10.4	19.6	7 30	22 32.66	-10 4.3	2.040	2.969	9.6	19.2
8 9	22 27.98	-3 37.0	2.023	2.989	7.1	19.4	8 9	22 27.07	-10 46.0	1.973	2.953	6.1	19.0
8 19	22 20.44	-3 46.5	1.983	2.982	3.8	19.2	8 19	22 20.15	-11 34.5	1.930	2.938	2.3	18.7
8 29	22 12.32	-4 3.7	1.971	2.976	2.4	19.1	8 29	22 12.60	-12 24.8	1.916	2.923	1.8	18.7
9 8	22 4.48	-4 24.9	1.986	2.969	5.2	19.3	9 8	22 5.27	-13 11.7	1.928	2.907	5.8	18.9
9 18	21 57.69	-4 46.5	2.029	2.963	8.7	19.5	9 18	21 58.96	-13 50.8	1.968	2.892	9.5	19.1
9 28	21 52.61	-5 4.9	2.096	2.957	11.8	19.7	9 28	21 54.37	-14 18.8	2.030	2.877	12.7	19.3
483948	2006 <i>BP</i> ₁₃₂		8 24.9 233°18	0°3/24.7	17		207104	2005 <i>AP</i> ₂₃		8 24.9 226°60	3°5/21		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
472172	2014 <i>DM</i> ₅₀		8 24.9 292°54	3°5/22.1	18		402813	2007 <i>DL</i> ₁₁₇		8 24.9 211°74	0°1/25.0	18	
7 20	22 40.99	-17 56.0	1.787	2.659	13.7	21.3	7 20	22 36.95	- 8 13.7	2.638	3.476	10.9	21.9
7 30	22 36.38	-18 37.7	1.715	2.654	10.4	21.1	7 30	22 32.63	- 8 43.5	2.552	3.471	8.3	21.7
8 9	22 29.54	-19 23.7	1.665	2.648	6.7	20.8	8 9	22 26.86	- 9 21.9	2.490	3.466	5.3	21.5
8 19	22 21.10	-20 8.1	1.640	2.643	3.8	20.6	8 19	22 20.05	-10 6.3	2.454	3.461	2.0	21.3
8 29	22 11.99	-20 44.2	1.642	2.638	4.6	20.7	8 29	22 12.80	-10 52.7	2.448	3.456	1.3	21.2
9 8	22 3.32	-21 7.0	1.670	2.633	8.2	20.9	9 8	22 5.77	-11 37.1	2.471	3.450	4.7	21.5
9 18	21 56.09	-21 13.6	1.723	2.627	11.8	21.1	9 18	21 59.59	-12 16.0	2.521	3.444	7.8	21.6
9 28	21 51.06	-21 3.4	1.797	2.622	15.1	21.3	9 28	21 54.81	-12 46.6	2.597	3.437	10.5	21.8
242555	2005 <i>EG</i> ₁₁₈		8 24.9 186°55	4°8/29.9	18		390295	2013 <i>AN</i> ₄₃		8 24.9 295°96	5°1/19.6	18	
7 20	22 38.85	+ 5 58.1	2.278	3.057	14.2	21.1	7 20	22 37.20	-20 17.1	1.860	2.739	12.9	20.4
7 30	22 34.27	+ 6 5.0	2.191	3.057	11.8	20.9	7 30	22 33.58	-21 48.6	1.787	2.729	9.8	20.2
8 9	22 27.99	+ 5 54.3	2.124	3.056	9.0	20.8	8 9	22 27.84	-23 25.3	1.738	2.719	6.8	20.0
8 19	22 20.48	+ 5 25.9	2.082	3.055	6.3	20.6	8 19	22 20.52	-24 58.9	1.715	2.708	5.1	19.9
8 29	22 12.41	+ 4 41.9	2.066	3.054	4.8	20.5	8 29	22 12.48	-26 20.6	1.718	2.698	6.5	19.9
9 8	22 4.61	+ 3 46.4	2.078	3.052	5.9	20.6	9 8	22 4.74	-27 23.5	1.747	2.688	9.5	20.1
9 18	21 57.80	+ 2 44.5	2.118	3.049	8.5	20.7	9 18	21 58.29	-28 3.7	1.801	2.679	12.8	20.3
9 28	21 52.65	+ 1 42.1	2.182	3.047	11.3	20.9	9 28	21 53.92	-28 20.3	1.874	2.669	15.7	20.5
483992	2006 <i>CY</i> ₁₉		8 24.9 293°85	2°0/26.8	17		420533	2012 <i>FB</i> ₇₃		8 24.9 165°17	0°1/24.9	17	
7 20	22 38.57	- 3 57.9	2.280	3.107	12.7	21.4	7 20	22 45.38	- 9 30.5	1.645	2.497	15.7	21.7
7 30	22 34.05	- 3 50.7	2.193	3.101	10.0	21.2	7 30	22 39.76	- 9 45.1	1.574	2.501	12.0	21.5
8 9	22 27.85	- 3 54.5	2.129	3.095	6.8	21.0	8 9	22 31.74	-10 10.8	1.525	2.504	7.7	21.3
8 19	22 20.42	- 4 7.8	2.090	3.090	3.5	20.8	8 19	22 21.98	-10 43.6	1.500	2.507	2.9	21.0
8 29	22 12.47	- 4 28.2	2.078	3.084	2.2	20.7	8 29	22 11.54	-11 17.9	1.502	2.510	2.0	20.9
9 8	22 4.77	- 4 52.1	2.095	3.078	5.0	20.9	9 8	22 1.62	-11 48.1	1.531	2.512	6.8	21.2
9 18	21 58.07	- 5 15.8	2.139	3.073	8.3	21.1	9 18	21 53.31	-12 10.0	1.586	2.513	11.2	21.5
9 28	21 53.01	- 5 36.0	2.208	3.067	11.4	21.3	9 28	21 47.42	-12 20.6	1.664	2.514	14.9	21.7
128330	2004 <i>FX</i> ₂₇		8 24.9 350°03	0°8/24.5	18		122950	2000 <i>SD</i> ₂₀₀		8 24.9 291°61	4°3/21.4	18	
7 20	22 36.30	-11 20.5	1.061	1.958	19.1	18.6	7 20	22 40.33	-18 29.4	1.649	2.528	14.4	19.6
7 30	22 33.96	-11 25.5	0.997	1.948	14.6	18.3	7 30	22 36.10	-19 31.6	1.581	2.523	10.9	19.4
8 9	22 28.57	-11 43.8	0.950	1.940	9.3	17.9	8 9	22 29.50	-20 39.2	1.534	2.518	7.2	19.2
8 19	22 20.87	-12 10.5	0.924	1.933	3.5	17.6	8 19	22 21.17	-21 44.6	1.512	2.513	4.4	19.0
8 29	22 12.15	-12 38.2	0.920	1.928	2.9	17.5	8 29	22 12.10	-22 39.7	1.517	2.508	5.6	19.1
9 8	22 4.05	-12 59.4	0.938	1.924	8.8	17.9	9 8	22 3.50	-23 18.0	1.546	2.504	9.1	19.3
9 18	21 58.00	-13 8.3	0.977	1.922	14.3	18.2	9 18	21 56.42	-23 36.1	1.600	2.499	12.9	19.5
9 28	21 55.03	-13 1.8	1.034	1.922	19.0	18.5	9 28	21 51.70	-23 33.6	1.674	2.495	16.2	19.7
244312	2002 <i>GG</i> ₁₂₈		8 24.9 199°49	1°8/26.7	18		181183	2005 <i>SG</i> ₉₂		8 24.9 72°89	2°1/27.1	18	
7 20	22 39.71	- 2 45.7	2.236	3.057	13.2	21.9	7 20	22 37.09	- 2 1.0	2.094	2.920	13.7	20.4
7 30	22 34.96	- 3 7.6	2.149	3.053	10.3	21.7	7 30	22 32.99	- 2 18.4	2.023	2.930	10.7	20.2
8 9	22 28.45	- 3 43.3	2.084	3.049	7.0	21.5	8 9	22 27.19	- 2 50.4	1.974	2.939	7.4	20.1
8 19	22 20.67	- 4 30.6	2.044	3.045	3.5	21.3	8 19	22 20.21	- 3 34.5	1.950	2.949	3.9	19.9
8 29	22 12.31	- 5 25.4	2.034	3.040	2.0	21.2	8 29	22 12.77	- 4 26.7	1.953	2.958	2.3	19.8
9 8	22 4.21	- 6 22.9	2.051	3.034	5.1	21.4	9 8	22 5.70	- 5 21.8	1.984	2.968	5.1	20.0
9 18	21 57.14	- 7 17.9	2.097	3.028	8.6	21.6	9 18	21 59.73	- 6 14.7	2.042	2.978	8.5	20.2
9 28	21 51.77	- 8 6.0	2.167	3.021	11.8	21.8	9 28	21 55.47	- 7 1.0	2.124	2.987	11.6	20.4
88246	2001 <i>DZ</i> ₂₅		8 24.9 80°61	1°9/22.2	18		76073	2000 <i>DB</i> ₈₂		8 24.9 185°46	2°0/22.9	18	
7 20	22 33.33	-15 3.2	3.077	3.935	9.0	19.5	7 20	22 40.28	-14 37.5	2.260	3.116	11.8	20.1
7 30	22 29.70	-16 3.4	3.009	3.942	6.7	19.4	7 30	22 35.37	-15 20.7	2.185	3.116	8.9	19.9
8 9	22 24.89	-17 8.0	2.967	3.949	4.2	19.2	8 9	22 28.71	-16 9.6	2.134	3.116	5.6	19.7
8 19	22 19.27	-18 13.0	2.952	3.956	2.1	19.1	8 19	22 20.79	-16 59.8	2.109	3.115	2.5	19.5
8 29	22 13.32	-19 14.3	2.967	3.964	2.7	19.1	8 29	22 12.37	-17 46.0	2.113	3.114	3.1	19.5
9 8	22 7.60	-20 8.1	3.011	3.971	5.1	19.3	9 8	22 4.28	-18 23.6	2.145	3.112	6.3	19.7
9 18	22 2.61	-20 51.8	3.082	3.978	7.5	19.5	9 18	21 57.29	-18 49.4	2.204	3.110	9.5	19.9
9 28	21 58.79	-21 23.6	3.179	3.986	9.6	19.6	9 28	21 52.04	-19 2.0	2.287	3.107	12.4	20.1
86289	1999 <i>US</i> ₄₆		8 24.9 318°73	1°8/23.1	18		308557	2005 <i>UT</i> ₃₁₄		8 24.9 257°23	5°2/19.6	18	
7 20	22 34.74	-11 48.0	1.924	2.792	13.1	19.0	7 20	22 39.72	-24 30.1	2.211	3.081	11.5	20.5
7 30	22 31.57	-12 50.0	1.841	2.778	9.9	18.8	7 30	22 35.11	-25 31.6	2.143	3.076	8.9	20.3
8 9	22 26.49	-14 3.2	1.780	2.765	6.2	18.5	8 9	22 28.61	-26 32.4	2.099	3.071	6.5	20.1
8 19	22 19.98	-15 22.2	1.745	2.753	2.5	18.3	8 19	22 20.77	-27 26.3	2.080	3.066	5.2	20.1
8 29	22 12.81	-16 40.0	1.738	2.740	3.1	18.3	8 29	22 12.39	-28 7.1	2.089	3.061	6.2	20.1
9 8	22 5.89	-17 49.6	1.757	2.729	7.0	18.5	9 8	22 4.37	-28 30.8	2.124	3.056	8.7	20.3
9 18	22 0.09	-18 45.5	1.801	2.717	10.7	18.7	9 18	21 57.56	-28 35.8	2.184	3.050	11.3	20.4
9 28	21 56.16	-19 24.3	1.868	2.706	14.1	18.9	9 28	21 52.61	-28 22.3	2.266	3.045	13.8	20.6
437506	2013 <i>YH</i> ₇₉		8 24.9 194°60	0°3/25.2	16		327209	2005 <i>NA</i> ₉₁		8 24.9 28°61	2°5/22.9	17	
7 20	22 41.72	- 8 14.7	1.918	2.763	14.1	22.2	7 20	22 37.26	-11 28.4	1.275	2.160	17.3	20.2
7 30	22 36.72	- 8 29.0	1.839	2.762	10.8	22.0	7 30	22 34.15	-12 41.3	1.219	2.165	13.0	20.0
8 9	22 29.68	- 8 54.1	1.783	2.761	6.9	21.8	8 9	22 28.41	-14 9.0	1.183	2.171	8.1	19.7
8 19	22 21.16	- 9 26.8	1.753	2.759	2.7	21.5	8 19	22 20.77	-15 42.9	1.170	2.178	3.3	19.5
8 29	22 12.03	-10 2.5	1.749	2.757	1.7	21.4	8 29	22 12.41	-17 12.0	1.182	2.185	4.1	19.5
9 8	22 3.27	-10 36.2	1.774	2.755	5.9	21.7	9 8	22 4.67	-18 26.3	1.218	2.193	8.9	19.8
9 18	21 55.79	-11 3.7	1.825	2.752	9.9	21.9	9 18	21 58.74	-19 19.6	1.277	2.201	13.5	20.1
9 28	21 50.33	-11 21.8	1.899	2.749	13.3	22.2	9 28	21 55.45	-19 49.1	1.356	2.210	17.4	20.4
255087	2005 <i>UY</i> ₄₀		8 24.9 215°18	4°6/29.9	18		481728	2008 <i>FM</i> ₂₆					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
263783	2008 <i>LE</i> ₉		8 24.9 180°09	4°3/20.8	17		135908	2002 <i>TO</i> ₁₀₃		8 24.9 34°05	1°9/26.6	18	
7 20	22 42.05	-18 41.8	1.916	2.784	13.1	21.3	7 20	22 38.38	-3 51.7	1.739	2.582	15.4	19.9
7 30	22 37.09	-20 2.8	1.849	2.785	9.9	21.1	7 30	22 34.34	-4 1.0	1.669	2.587	12.0	19.7
8 9	22 29.98	-21 28.7	1.805	2.786	6.6	20.9	8 9	22 28.25	-4 25.7	1.619	2.591	8.1	19.5
8 19	22 21.33	-22 52.1	1.788	2.786	4.3	20.8	8 19	22 20.69	-5 3.0	1.594	2.596	4.0	19.2
8 29	22 12.02	-24 4.8	1.799	2.786	5.5	20.8	8 29	22 12.55	-5 48.5	1.594	2.601	2.2	19.1
9 8	22 3.12	-25 0.5	1.837	2.785	8.7	21.0	9 8	22 4.83	-6 36.4	1.622	2.607	5.9	19.4
9 18	21 55.59	-25 35.9	1.899	2.783	12.0	21.2	9 18	21 58.45	-7 21.0	1.674	2.612	9.9	19.6
9 28	21 50.18	-25 50.3	1.984	2.780	14.9	21.4	9 28	21 54.13	-7 57.6	1.750	2.618	13.4	19.9
157431	2004 <i>TA</i> ₃₄₃		8 24.9 154°55	2°4/27.9	18		107531	2001 <i>DR</i> ₆₅		8 24.9 263°94	1°1/25.9	18	
7 20	22 36.29	+0 1.6	2.682	3.486	11.6	20.5	7 20	22 40.49	-6 16.6	1.935	2.776	14.1	20.4
7 30	22 32.07	-0 11.2	2.599	3.491	9.2	20.3	7 30	22 35.95	-6 26.5	1.842	2.761	11.0	20.1
8 9	22 26.48	-0 36.6	2.539	3.495	6.5	20.1	8 9	22 29.34	-6 48.9	1.771	2.746	7.3	19.9
8 19	22 19.93	-1 13.0	2.505	3.498	3.8	20.0	8 19	22 21.15	-7 21.2	1.725	2.730	3.2	19.6
8 29	22 12.98	-1 57.7	2.500	3.502	2.5	19.9	8 29	22 12.20	-7 59.4	1.706	2.714	1.8	19.4
9 8	22 6.28	-2 46.9	2.523	3.505	4.4	20.0	9 8	22 3.46	-8 38.5	1.715	2.698	5.9	19.7
9 18	22 0.41	-3 36.6	2.575	3.508	7.1	20.2	9 18	21 55.90	-9 13.5	1.750	2.681	10.0	19.9
9 28	21 55.89	-4 22.9	2.652	3.511	9.7	20.4	9 28	21 50.31	-9 40.4	1.808	2.665	13.6	20.1
367720	2010 <i>TF</i> ₁₄₈		8 24.9 25°12	1°0/25.4	17		441908	2010 <i>EM</i> ₁₃₄		8 24.9 110°06	5°9/31.6	16	
7 20	22 42.61	-9 38.2	0.949	1.841	21.3	20.3	7 20	22 36.61	+10 17.3	1.974	2.743	16.4	21.5
7 30	22 38.68	-9 8.9	0.905	1.851	16.3	20.0	7 30	22 32.83	+10 1.6	1.896	2.750	13.8	21.3
8 9	22 31.45	-8 53.9	0.877	1.864	10.5	19.7	8 9	22 27.22	+9 21.3	1.836	2.756	10.8	21.1
8 19	22 21.92	-8 50.0	0.870	1.877	4.3	19.4	8 19	22 20.29	+8 16.5	1.799	2.763	7.9	20.9
8 29	22 11.71	-8 51.8	0.884	1.893	2.5	19.4	8 29	22 12.82	+6 50.5	1.787	2.769	6.0	20.8
9 8	22 2.58	-8 53.3	0.921	1.909	8.5	19.8	9 8	22 5.69	+5 9.7	1.802	2.776	6.7	20.9
9 18	21 55.92	-8 49.8	0.978	1.927	13.9	20.2	9 18	21 59.71	+3 22.2	1.845	2.782	9.2	21.1
9 28	21 52.59	-8 37.9	1.054	1.945	18.4	20.5	9 28	21 55.56	+1 36.5	1.912	2.788	12.1	21.3
89866	2002 <i>CW</i> ₁₃₀		8 24.9 273°52	1°8/26.6	18		352273	2007 <i>TF</i> ₂₉₈		8 24.9 317°55	2°3/23.3	18	
7 20	22 39.45	-4 38.0	2.177	3.007	13.1	20.2	7 20	22 39.00	-14 29.9	1.586	2.462	15.0	20.5
7 30	22 34.79	-4 33.6	2.095	3.005	10.3	20.1	7 30	22 35.27	-14 58.9	1.503	2.444	11.4	20.2
8 9	22 28.37	-4 40.3	2.035	3.004	6.9	19.8	8 9	22 29.13	-15 36.3	1.441	2.427	7.2	19.9
8 19	22 20.68	-4 56.5	2.001	3.002	3.4	19.6	8 19	22 21.12	-16 16.7	1.402	2.409	3.1	19.7
8 29	22 12.47	-5 19.2	1.994	3.000	2.0	19.5	8 29	22 12.23	-16 53.4	1.390	2.393	3.7	19.7
9 8	22 4.56	-5 44.7	2.015	2.998	5.1	19.7	9 8	22 3.66	-17 20.1	1.402	2.377	8.1	19.9
9 18	21 57.73	-6 9.2	2.064	2.997	8.6	19.9	9 18	21 56.55	-17 32.6	1.439	2.361	12.4	20.1
9 28	21 52.63	-6 29.2	2.136	2.995	11.7	20.1	9 28	21 51.83	-17 28.8	1.496	2.346	16.3	20.3
483867	2005 <i>YJ</i> ₁₁₇		8 24.9 284°48	5°1/18.8	17		358932	2008 <i>HL</i> ₄₆		8 24.9 45°14	3°4/21.8	18	
7 20	22 37.94	-22 54.1	2.285	3.156	11.2	21.5	7 20	22 38.30	-17 40.1	1.867	2.741	13.1	20.2
7 30	22 33.94	-24 20.4	2.194	3.129	8.7	21.3	7 30	22 34.09	-18 35.3	1.818	2.758	9.8	20.0
8 9	22 28.02	-25 50.0	2.128	3.103	6.3	21.1	8 9	22 27.95	-19 34.2	1.792	2.775	6.3	19.9
8 19	22 20.63	-27 16.1	2.089	3.076	5.1	21.0	8 19	22 20.53	-20 30.4	1.791	2.793	3.6	19.7
8 29	22 12.48	-28 31.2	2.078	3.048	6.4	21.0	8 29	22 12.71	-21 17.7	1.817	2.811	4.5	19.8
9 8	22 4.45	-29 29.4	2.094	3.021	9.0	21.1	9 8	22 5.44	-21 51.4	1.869	2.829	7.6	20.1
9 18	21 57.43	-30 7.1	2.134	2.993	11.8	21.2	9 18	21 59.53	-22 8.9	1.947	2.848	10.8	20.3
9 28	21 52.19	-30 23.5	2.196	2.965	14.4	21.4	9 28	21 55.60	-22 9.8	2.046	2.867	13.6	20.5
91341	1999 <i>JC</i> ₂₅		8 24.9 49°09	2°7/26.9	18		434699	2006 <i>BT</i> ₂₄₃		8 24.9 114°74	1°9/23.3	17	
7 20	22 42.06	-3 23.0	1.352	2.203	18.5	18.9	7 20	22 41.76	-13 34.3	1.879	2.740	13.7	21.3
7 30	22 37.36	-3 16.9	1.305	2.226	14.4	18.7	7 30	22 36.71	-14 16.1	1.817	2.751	10.3	21.2
8 9	22 30.19	-3 29.0	1.277	2.249	9.7	18.5	8 9	22 29.65	-15 5.0	1.779	2.762	6.4	20.9
8 19	22 21.37	-3 56.5	1.272	2.273	4.9	18.3	8 19	22 21.20	-15 55.9	1.766	2.773	2.7	20.7
8 29	22 12.09	-4 34.2	1.291	2.297	2.9	18.3	8 29	22 12.26	-16 42.6	1.780	2.783	3.1	20.8
9 8	22 3.62	-5 15.3	1.336	2.322	6.7	18.6	9 8	22 3.83	-17 19.8	1.822	2.793	6.8	21.0
9 18	21 56.98	-5 53.5	1.405	2.346	11.1	18.9	9 18	21 56.78	-17 44.3	1.890	2.803	10.5	21.3
9 28	21 52.90	-6 23.8	1.495	2.371	14.8	19.2	9 28	21 51.79	-17 54.4	1.981	2.813	13.6	21.5
424936	2008 <i>YH</i> ₆₅		8 24.9 280°28	5°3/21.1	17		284626	2007 <i>VR</i> ₁₅₃		8 24.9 25°04	2°7/27.3	18	
7 20	22 41.52	-18 2.2	1.307	2.195	16.8	21.0	7 20	22 37.91	-1 34.4	1.765	2.599	15.6	20.8
7 30	22 37.76	-19 18.6	1.234	2.181	12.8	20.7	7 30	22 34.00	-1 43.9	1.690	2.601	12.3	20.6
8 9	22 31.00	-20 44.6	1.180	2.166	8.5	20.4	8 9	22 28.06	-2 10.6	1.636	2.603	8.5	20.3
8 19	22 21.89	-22 10.3	1.150	2.151	5.4	20.2	8 19	22 20.65	-2 52.4	1.606	2.605	4.6	20.1
8 29	22 11.63	-23 24.0	1.144	2.137	6.9	20.3	8 29	22 12.62	-3 44.9	1.602	2.607	2.8	20.0
9 8	22 1.80	-24 16.1	1.162	2.122	11.2	20.5	9 8	22 4.97	-4 42.2	1.624	2.609	5.9	20.2
9 18	21 53.84	-24 41.4	1.202	2.107	15.8	20.7	9 18	21 58.61	-5 38.0	1.673	2.612	9.8	20.4
9 28	21 48.87	-24 39.3	1.260	2.092	19.8	20.9	9 28	21 54.28	-6 26.8	1.744	2.615	13.3	20.7
142088	2002 <i>QN</i> ₅₀		8 24.9 177°02	0°8/24.3	18		523568	2018 <i>CD</i> ₁₆		8 24.9 205°95	3°9/28.9	18	
7 20	22 43.18	-10 38.8	1.758	2.613	14.7	21.1	7 20	22 39.18	+3 10.5	2.326	3.117	13.6	22.0
7 30	22 38.01	-11 9.0	1.685	2.614	11.2	20.9	7 30	22 34.56	+3 14.5	2.235	3.113	11.1	21.8
8 9	22 30.61	-11 49.5	1.634	2.615	7.1	20.7	8 9	22 28.25	+3 2.8	2.165	3.109	8.2	21.6
8 19	22 21.58	-12 35.8	1.608	2.616	2.6	20.4	8 19	22 20.71	+2 35.8	2.121	3.104	5.4	21.4
8 29	22 11.90	-13 21.8	1.610	2.616	2.3	20.4	8 29	22 12.60	+1 55.8	2.104	3.098	3.9	21.3
9 8	22 2.66	-14 1.7	1.639	2.616	6.8	20.7	9 8	22 4.72	+1 6.6	2.115	3.092	5.4	21.4
9 18	21 54.88	-14 31.0	1.693	2.616	10.9	20.9	9 18	21 57.80	+0 13.2	2.153	3.086	8.3	21.6
9 28	21 49.33	-14 47.1	1.771	2.614	14.4	21.1	9 28	21 52.50	-0 39.3	2.216	3.079	11.2	21.8
344105	1999 <i>TD</i> ₁₅₀		8 24.9 334°36	5°1/29.6	18		154197	2002 <i>GB</i> ₁₅₄		8 24.9 55°61	1°1/26.3	18	

EPHEMERIDES

8 24.9

8 25.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
523090	2016 <i>RF</i> ₄₇		8 24.9 294° 87'	2° 1' / 23.2 18			90890	1997 <i>AT</i> ₁₂		8 25.0 280° 27'	0° 2' / 25.1 18		
7 20	22 38.65	-13 5.2	1.707	2.577	14.4	21.5	7 20	22 41.28	-8 46.7	1.820	2.671	14.5	18.9
7 30	22 34.84	-13 51.6	1.625	2.563	10.9	21.3	7 30	22 36.80	-9 0.0	1.722	2.648	11.2	18.7
8 9	22 28.77	-14 48.3	1.564	2.549	6.9	21.0	8 9	22 30.04	-9 24.6	1.646	2.625	7.3	18.4
8 19	22 21.00	-15 49.7	1.528	2.535	2.9	20.7	8 19	22 21.52	-9 57.7	1.595	2.602	2.9	18.1
8 29	22 12.41	-16 48.6	1.518	2.521	3.5	20.7	8 29	22 12.08	-10 34.5	1.571	2.579	1.8	18.0
9 8	22 4.12	-17 38.1	1.535	2.507	7.7	21.0	9 8	22 2.80	-11 9.4	1.573	2.555	6.5	18.2
9 18	21 57.18	-18 13.2	1.576	2.494	11.8	21.2	9 18	21 54.75	-11 37.7	1.602	2.531	10.9	18.4
9 28	21 52.44	-18 31.1	1.638	2.480	15.5	21.4	9 28	21 48.83	-11 55.5	1.653	2.507	14.8	18.6
342348	2008 <i>TN</i> ₁₆₂		8 24.9 329° 28'	0° 3' / 25.2 18			337168	1999 <i>VF</i> ₁₄		8 25.0 321° 18'	23° 4' / 7.3 17		
7 20	22 34.87	-6 44.6	1.367	2.240	17.1	20.5	7 20	23 1.54	-53 39.4	0.966	1.812	24.6	19.5
7 30	22 32.41	-7 20.8	1.287	2.225	13.2	20.3	7 30	22 56.11	-55 50.0	0.937	1.801	23.7	19.4
8 9	22 27.45	-8 16.1	1.227	2.211	8.6	20.0	8 9	22 44.06	-57 23.0	0.922	1.791	23.5	19.3
8 19	22 20.55	-9 26.0	1.190	2.197	3.4	19.6	8 19	22 27.04	-57 58.5	0.920	1.781	24.0	19.3
8 29	22 12.71	-10 42.9	1.176	2.185	2.1	19.5	8 29	22 8.67	-57 23.2	0.931	1.772	25.1	19.3
9 8	22 5.20	-11 57.4	1.188	2.173	7.5	19.8	9 8	21 53.03	-55 38.0	0.955	1.764	26.8	19.4
9 18	21 59.22	-13 1.2	1.222	2.162	12.6	20.1	9 18	21 42.72	-52 54.8	0.992	1.757	28.6	19.6
9 28	21 55.74	-13 48.0	1.277	2.152	16.9	20.3	9 28	21 38.53	-49 30.0	1.039	1.750	30.3	19.7
342233	2008 <i>SW</i> ₂₆₉		8 24.9 36° 10'	9° 7' / 2.2 17			184459	2005 <i>NH</i> ₈₀		8 25.0 344° 96'	4° 7' / 22.3 17		
7 20	22 39.94	+13 30.2	1.696	2.452	19.2	20.1	7 20	22 41.79	-19 7.4	1.215	2.108	17.4	19.5
7 30	22 35.76	+14 31.2	1.621	2.455	16.7	19.9	7 30	22 37.95	-19 38.9	1.152	2.101	13.3	19.2
8 9	22 29.33	+15 6.9	1.564	2.458	14.0	19.7	8 9	22 31.07	-20 14.6	1.108	2.095	8.8	18.9
8 19	22 21.20	+15 13.8	1.526	2.461	11.4	19.6	8 19	22 21.93	-20 46.4	1.086	2.089	5.0	18.7
8 29	22 12.30	+14 51.0	1.511	2.465	9.8	19.5	8 29	22 11.87	-21 5.7	1.087	2.085	6.0	18.7
9 8	22 3.76	+14 2.1	1.519	2.468	10.0	19.5	9 8	22 2.50	-21 6.4	1.112	2.081	10.4	19.0
9 18	21 56.60	+12 53.7	1.551	2.472	11.8	19.6	9 18	21 55.20	-20 46.4	1.158	2.078	15.0	19.2
9 28	21 51.68	+11 34.9	1.606	2.476	14.3	19.8	9 28	21 50.95	-20 6.7	1.223	2.076	19.0	19.5
35334	Yarkovsky		8 24.9 251° 12'	0° 7' / 24.3 18			247158	2000 <i>YW</i> ₃₈		8 25.0 313° 13'	2° 1' / 23.5 18		
7 20	22 37.14	-10 8.9	2.215	3.067	12.2	19.1	7 20	22 36.88	-11 9.1	1.212	2.100	17.8	19.5
7 30	22 33.08	-10 47.8	2.136	3.064	9.2	18.9	7 30	22 34.37	-12 0.9	1.132	2.080	13.6	19.1
8 9	22 27.33	-11 36.1	2.080	3.061	5.8	18.7	8 9	22 28.96	-13 10.4	1.072	2.061	8.7	18.8
8 19	22 20.37	-12 29.7	2.050	3.058	2.1	18.4	8 19	22 21.22	-14 30.8	1.033	2.042	3.4	18.5
8 29	22 12.88	-13 23.7	2.048	3.055	1.9	18.4	8 29	22 12.28	-15 51.8	1.018	2.023	3.9	18.4
9 8	22 5.68	-14 13.0	2.074	3.051	5.6	18.7	9 8	22 3.65	-17 2.5	1.026	2.005	9.5	18.7
9 18	21 59.51	-14 53.6	2.127	3.048	9.1	18.9	9 18	21 56.77	-17 54.3	1.056	1.988	14.9	18.9
9 28	21 55.00	-15 22.5	2.204	3.045	12.1	19.1	9 28	21 52.84	-18 22.5	1.105	1.972	19.6	19.2
152055	2004 <i>PN</i> ₅₄		8 24.9 44° 53'	1° 7' / 26.2 18			114422	2002 <i>YL</i> ₃₃		8 25.0 260° 97'	2° 4' / 26.6 18		
7 20	22 40.92	-5 23.4	1.413	2.270	17.5	19.9	7 20	22 42.82	-4 24.8	1.611	2.453	16.5	20.1
7 30	22 36.60	-5 24.6	1.355	2.281	13.6	19.6	7 30	22 38.06	-4 13.5	1.529	2.446	13.0	19.8
8 9	22 29.84	-5 41.9	1.316	2.293	9.0	19.4	8 9	22 30.87	-4 16.8	1.467	2.438	8.8	19.6
8 19	22 21.35	-6 12.2	1.301	2.305	4.1	19.2	8 19	22 21.84	-4 33.2	1.429	2.430	4.5	19.3
8 29	22 12.26	-6 50.0	1.310	2.317	2.3	19.1	8 29	22 11.95	-4 59.0	1.416	2.422	2.6	19.2
9 8	22 3.81	-7 29.0	1.344	2.330	6.7	19.4	9 8	22 2.42	-5 29.2	1.430	2.414	6.6	19.4
9 18	21 57.07	-8 3.3	1.403	2.343	11.2	19.7	9 18	21 54.37	-5 58.3	1.469	2.406	11.0	19.6
9 28	21 52.83	-8 28.3	1.483	2.357	15.1	20.0	9 28	21 48.70	-6 21.6	1.530	2.398	15.0	19.9
26079	1979 <i>MW</i> ₆		8 24.9 54° 39'	1° 1' / 25.9 18			512931	2017 <i>AR</i> ₆		8 25.0 331° 85'	2° 6' / 22.2 18		
7 20	22 38.41	-5 16.8	1.821	2.666	14.7	19.3	7 20	22 36.72	-16 10.7	2.292	3.157	11.4	20.7
7 30	22 34.32	-5 39.0	1.749	2.669	11.4	19.0	7 30	22 32.74	-17 2.1	2.219	3.155	8.5	20.5
8 9	22 28.24	-6 15.4	1.698	2.673	7.5	18.8	8 9	22 27.11	-17 58.4	2.170	3.153	5.4	20.3
8 19	22 20.73	-7 2.9	1.671	2.676	3.3	18.6	8 19	22 20.30	-18 55.0	2.148	3.152	2.8	20.1
8 29	22 12.65	-7 56.2	1.672	2.680	1.7	18.5	8 29	22 13.01	-19 46.3	2.153	3.150	3.6	20.2
9 8	22 4.96	-8 49.5	1.699	2.683	5.8	18.8	9 8	22 6.03	-20 27.7	2.187	3.149	6.5	20.4
9 18	21 58.55	-9 37.2	1.752	2.687	9.8	19.0	9 18	22 0.07	-20 56.1	2.246	3.147	9.6	20.6
9 28	21 54.12	-10 15.1	1.829	2.690	13.2	19.2	9 28	21 55.74	-21 10.0	2.328	3.146	12.3	20.8
485780	2012 <i>CL</i> ₅₂		8 25.0 293° 47'	0° 3' / 24.6 18			261969	2006 <i>PP</i> ₃₃		8 25.0 346° 47'	5° 1' / 27.9 18		
7 20	22 34.69	-6 52.8	2.169	3.017	12.6	20.6	7 20	22 38.18	-1 10.1	1.119	1.982	20.7	19.7
7 30	22 31.34	-8 0.3	2.082	3.007	9.6	20.4	7 30	22 35.35	-0 28.4	1.049	1.974	16.7	19.4
8 9	22 26.30	-9 21.9	2.017	2.997	6.1	20.2	8 9	22 29.54	-0 8.1	0.997	1.967	12.1	19.1
8 19	22 20.00	-10 53.3	1.980	2.987	2.3	19.9	8 19	22 21.42	-0 9.9	0.964	1.961	7.4	18.8
8 29	22 13.11	-12 27.9	1.971	2.978	1.8	19.9	8 29	22 12.23	-0 31.4	0.953	1.956	5.1	18.7
9 8	22 6.44	-13 58.8	1.990	2.968	5.7	20.1	9 8	22 3.53	-1 6.4	0.965	1.952	8.4	18.9
9 18	22 0.73	-15 19.8	2.036	2.959	9.3	20.3	9 18	21 56.74	-1 46.9	0.997	1.949	13.3	19.1
9 28	21 56.66	-16 26.4	2.107	2.949	12.5	20.5	9 28	21 52.98	-2 24.4	1.050	1.948	17.9	19.4
38905	2000 <i>SW</i> ₁₆₇		8 25.0 327° 14'	1° 9' / 26.4 18			149288	2002 <i>TD</i> ₂₁₁		8 25.0 251° 44'	0° 9' / 24.2 18		
7 20	22 40.11	-4 59.4	1.588	2.437	16.3	19.1	7 20	22 41.80	-10 25.5	1.819	2.674	14.3	21.0
7 30	22 35.96	-4 58.4	1.511	2.433	12.7	18.9	7 30	22 37.17	-11 2.9	1.728	2.657	10.9	20.8
8 9	22 29.48	-5 12.4	1.454	2.428	8.6	18.6	8 9	22 30.27	-11 52.1	1.659	2.640	7.0	20.5
8 19	22 21.26	-5 39.2	1.421	2.424	4.1	18.4	8 19	22 21.62	-12 48.6	1.615	2.622	2.6	20.2
8 29	22 12.28	-6 14.5	1.413	2.421	2.3	18.2	8 29	22 12.10	-13 46.0	1.598	2.604	2.4	20.2
9 8	22 3.70	-6 52.4	1.432	2.417	6.5	18.5	9 8	22 2.80	-14 37.9	1.609	2.586	6.9	20.4
9 18	21 56.59	-7 27.2	1.475	2.414	10.9	18.7	9 18	21 54.77	-15 18.8	1.645	2.566	11.2	20.6
9 28	21 51.79	-7 54.3	1.540	2.411	14.8	19.0	9 28	21 48.90	-15 45.4	1.704	2.547	15.0	20.8
210647	2000 <i>HZ</i> _{61</}												