

EPHEMERIDES

11 2.9

11 3.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>227825</b>	2007 <i>CE</i> <sub>23</sub>	11	2.9 179°36	1.7/ 1.8	18		<b>210833</b>	2001 <i>PQ</i> <sub>5</sub>	11	3.0 121°30	2.4/ 5.2	18	
9 28	3 1.36	+12 33.2	1.921	2.751	14.0	21.2	9 28	3 0.07	+25 3.1	2.248	3.038	13.5	20.6
10 8	2 55.91	+11 58.1	1.845	2.753	10.6	21.0	10 8	2 54.69	+24 48.1	2.175	3.052	10.7	20.4
10 18	2 48.24	+11 15.6	1.792	2.754	6.7	20.8	10 18	2 47.34	+24 18.8	2.125	3.066	7.4	20.2
10 28	2 39.07	+10 29.3	1.766	2.754	2.7	20.5	10 28	2 38.72	+23 36.0	2.102	3.079	4.0	20.0
11 7	2 29.38	+9 44.1	1.770	2.754	2.9	20.5	11 7	2 29.73	+22 42.5	2.107	3.092	2.5	19.9
11 17	2 20.21	+9 4.9	1.802	2.753	6.9	20.8	11 17	2 21.29	+21 43.1	2.143	3.104	5.1	20.1
11 27	2 12.54	+8 36.5	1.861	2.752	10.7	21.0	11 27	2 14.25	+20 43.6	2.207	3.116	8.4	20.4
12 7	2 7.05	+8 21.8	1.944	2.750	14.1	21.2	12 7	2 9.20	+19 49.5	2.297	3.128	11.3	20.6
<b>401821</b>	1997 <i>SM</i> <sub>7</sub>	11	2.9 352°23	3.5/ 5.5	17		<b>399712</b>	2004 <i>VS</i> <sub>4</sub>	11	3.0 330°13	5.6/ 7.9	18	
9 28	2 58.87	+25 11.3	2.075	2.872	14.3	20.6	9 28	2 55.36	+32 57.6	1.855	2.633	16.4	19.8
10 8	2 54.18	+25 36.6	1.992	2.870	11.4	20.4	10 8	2 51.98	+32 52.8	1.761	2.619	13.7	19.6
10 18	2 47.26	+25 48.7	1.930	2.868	8.2	20.2	10 18	2 46.08	+32 24.9	1.687	2.606	10.5	19.4
10 28	2 38.74	+25 46.5	1.894	2.867	4.9	20.0	10 28	2 38.38	+31 32.1	1.635	2.593	7.4	19.2
11 7	2 29.58	+25 31.1	1.885	2.865	3.6	19.9	11 7	2 29.94	+30 16.1	1.610	2.581	5.6	19.0
11 17	2 20.83	+25 5.4	1.905	2.864	5.8	20.0	11 17	2 21.97	+28 42.5	1.611	2.569	6.9	19.1
11 27	2 13.50	+24 34.4	1.952	2.864	9.1	20.2	11 27	2 15.64	+27 0.2	1.640	2.558	10.1	19.3
12 7	2 8.32	+24 3.9	2.023	2.863	12.3	20.5	12 7	2 11.72	+25 19.4	1.693	2.548	13.5	19.5
<b>302752</b>	2002 <i>VW</i> <sub>14</sub>	11	2.9 301°93	3.4/ 5.0	18		<b>213999</b>	2004 <i>BC</i> <sub>104</sub>	11	3.0 263°25	5.5/ 29.6	18	
9 28	3 0.91	+23 28.8	1.795	2.604	15.7	20.6	9 28	2 58.37	+1 19.3	2.088	2.928	12.7	20.7
10 8	2 56.19	+23 57.6	1.703	2.591	12.6	20.4	10 8	2 53.60	+0 22.7	2.003	2.910	9.9	20.5
10 18	2 48.81	+24 13.4	1.632	2.577	8.9	20.1	10 18	2 46.82	-0 33.4	1.941	2.893	7.2	20.3
10 28	2 39.42	+24 14.5	1.586	2.564	5.1	19.9	10 28	2 38.61	-1 23.2	1.907	2.874	5.5	20.1
11 7	2 29.10	+24 1.6	1.567	2.551	3.5	19.7	11 7	2 29.80	-2 1.0	1.900	2.856	6.5	20.2
11 17	2 19.12	+23 37.8	1.576	2.538	6.6	19.9	11 17	2 21.32	-2 22.3	1.921	2.837	9.2	20.3
11 27	2 10.76	+23 8.8	1.611	2.525	10.6	20.1	11 27	2 14.08	-2 24.3	1.968	2.817	12.2	20.5
12 7	2 4.92	+22 41.2	1.670	2.512	14.3	20.3	12 7	2 8.75	-2 6.8	2.036	2.798	15.0	20.6
<b>120274</b>	2004 <i>HE</i> <sub>6</sub>	11	2.9 180°35	1.3/ 2.1	18		<b>137667</b>	1999 <i>XW</i> <sub>25</sub>	11	3.0 8°49	3.7/ 1.4	18	
9 28	3 1.60	+13 44.2	1.876	2.705	14.3	20.8	9 28	2 59.41	+8 26.9	1.080	1.953	19.5	19.4
10 8	2 56.16	+13 12.3	1.799	2.706	10.9	20.6	10 8	2 55.79	+8 11.3	1.024	1.954	14.9	19.1
10 18	2 48.44	+12 32.0	1.746	2.707	6.9	20.4	10 18	2 48.80	+7 51.9	0.987	1.956	9.6	18.9
10 28	2 39.16	+11 46.6	1.719	2.707	2.7	20.1	10 28	2 39.45	+7 34.3	0.972	1.959	4.6	18.6
11 7	2 29.33	+11 0.8	1.721	2.707	2.6	20.1	11 7	2 29.29	+7 24.8	0.980	1.963	5.1	18.6
11 17	2 20.04	+10 19.8	1.752	2.706	6.8	20.4	11 17	2 20.01	+7 28.5	1.011	1.968	10.1	18.9
11 27	2 12.29	+9 48.7	1.810	2.705	10.8	20.6	11 27	2 13.11	+7 48.8	1.065	1.975	15.2	19.3
12 7	2 6.78	+9 30.8	1.892	2.703	14.2	20.8	12 7	2 9.46	+8 26.5	1.138	1.982	19.5	19.6
<b>43317</b>	2000 <i>JY</i> <sub>21</sub>	11	2.9 257°64	1.3/ 3.9	18		<b>369188</b>	2008 <i>SQ</i> <sub>283</sub>	11	3.0 16°16	5.1/ 8.2	18	
9 28	3 1.03	+20 4.4	1.676	2.500	16.0	19.4	9 28	2 56.23	+33 50.2	2.146	2.907	15.0	20.1
10 8	2 56.27	+19 55.7	1.589	2.489	12.5	19.1	10 8	2 52.15	+33 39.0	2.064	2.910	12.4	19.9
10 18	2 48.82	+19 33.0	1.523	2.478	8.3	18.9	10 18	2 45.92	+33 6.9	2.002	2.913	9.6	19.8
10 28	2 39.40	+18 57.2	1.482	2.467	3.7	18.6	10 28	2 38.24	+32 13.0	1.964	2.916	6.8	19.6
11 7	2 29.14	+18 11.6	1.468	2.456	2.1	18.4	11 7	2 30.08	+30 59.6	1.953	2.920	5.2	19.5
11 17	2 19.34	+17 21.8	1.482	2.445	6.7	18.7	11 17	2 22.48	+29 31.8	1.970	2.924	6.2	19.6
11 27	2 11.25	+16 35.1	1.522	2.433	11.3	18.9	11 27	2 16.36	+27 57.4	2.016	2.929	8.8	19.8
12 7	2 5.74	+15 57.6	1.586	2.422	15.3	19.2	12 7	2 12.36	+26 24.6	2.087	2.934	11.7	19.9
<b>308818</b>	2006 <i>QM</i> <sub>163</sub>	11	3.0 25°46	0.8/ 3.6	18		<b>325439</b>	2009 <i>PM</i> <sub>20</sub>	11	3.0 54°22	5.7/ 28.8	18	
9 28	2 57.43	+19 23.3	1.602	2.437	16.1	20.5	9 28	2 54.88	+1 46.4	2.028	2.876	12.7	20.6
10 8	2 53.38	+19 2.6	1.535	2.442	12.4	20.3	10 8	2 50.79	+0 20.8	1.971	2.883	9.8	20.4
10 18	2 46.83	+18 27.9	1.488	2.448	8.1	20.1	10 18	2 44.88	-1 4.0	1.939	2.891	7.1	20.3
10 28	2 38.59	+17 41.6	1.467	2.454	3.4	19.8	10 28	2 37.80	-2 21.0	1.933	2.898	5.7	20.2
11 7	2 29.79	+16 48.3	1.472	2.461	1.9	19.7	11 7	2 30.39	-3 23.7	1.955	2.906	6.8	20.3
11 17	2 21.64	+15 54.5	1.504	2.468	6.5	20.0	11 17	2 23.47	-4 7.4	2.005	2.913	9.3	20.4
11 27	2 15.23	+15 6.9	1.563	2.476	10.9	20.3	11 27	2 17.84	-4 29.6	2.079	2.921	12.0	20.6
12 7	2 11.26	+14 31.1	1.644	2.484	14.6	20.6	12 7	2 14.01	-4 30.5	2.175	2.929	14.4	20.8
<b>451645</b>	2012 <i>JE</i> <sub>25</sub>	11	3.0 238°96	0.2/ 2.8	17		<b>324827</b>	2007 <i>HL</i> <sub>96</sub>	11	3.0 111°98	0.8/ 2.4	18	
9 28	2 55.81	+17 27.3	2.831	3.642	10.5	22.0	9 28	2 58.02	+13 31.9	2.292	3.118	12.2	20.3
10 8	2 51.20	+16 45.2	2.730	3.627	8.0	21.8	10 8	2 53.10	+13 20.2	2.215	3.120	9.2	20.1
10 18	2 45.06	+15 54.1	2.654	3.611	5.1	21.6	10 18	2 46.36	+13 2.8	2.162	3.123	5.8	19.9
10 28	2 37.86	+14 56.1	2.607	3.596	1.9	21.4	10 28	2 38.39	+12 41.7	2.136	3.125	2.2	19.7
11 7	2 30.25	+13 54.6	2.591	3.579	1.4	21.3	11 7	2 29.98	+12 19.8	2.140	3.127	1.9	19.7
11 17	2 22.90	+12 53.8	2.606	3.563	4.7	21.5	11 17	2 21.98	+12 0.6	2.173	3.130	5.5	19.9
11 27	2 16.49	+11 58.2	2.650	3.545	7.8	21.7	11 27	2 15.19	+11 47.3	2.235	3.132	8.9	20.1
12 7	2 11.54	+11 11.3	2.721	3.528	10.5	21.9	12 7	2 10.19	+11 42.5	2.321	3.134	11.8	20.3
<b>442953</b>	2013 <i>CA</i> <sub>114</sub>	11	3.0 325°02	5.2/ 6.3	17		<b>82042</b>	2000 <i>SR</i> <sub>203</sub>	11	3.0 43°82	0.6/ 2.4	17	
9 28	2 59.26	+27 54.8	1.626	2.429	17.4	20.9	9 28	2 54.79	+14 33.9	2.602	3.426	11.0	20.3
10 8	2 55.26	+28 25.7	1.539	2.417	14.2	20.7	10 8	2 50.47	+14 9.6	2.523	3.427	8.3	20.2
10 18	2 48.37	+28 38.4	1.471	2.406	10.5	20.4	10 18	2 44.60	+13 39.0	2.468	3.429	5.2	20.0
10 28	2 39.30	+28 30.3	1.427	2.395	6.9	20.2	10 28	2 37.70	+13 4.3	2.441	3.430	2.0	19.7
11 7	2 29.25	+28 1.6	1.408	2.385	5.2	20.1	11 7	2 30.45	+12 28.7	2.444	3.431	1.7	19.7
11 17	2 19.65	+27 16.3	1.416	2.376	7.4	20.2	11 17	2 23.54	+11 55.5	2.477	3.433	5.0	20.0
11 27	2 11.88	+26 22.0	1.449	2.367	11.2	20.4	11 27	2 17.65	+11 28.3	2.538	3.434	8.0	20.2
12 7	2 6.90	+25 27.6	1.505	2.358	15.0	20.6	12 7	2 13.28	+11 9.7	2.624	3.436	10.7	20.3
<b>362296</b>	2009 <i>SB</i> <sub>263</sub>	11	3.0 96°05	1.2/ 1.9	18		<b>513327</b>	2007 <i>EA</i> <sub>211</sub>	11	3.0 240°39	0.5/ 3.4	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>311800</b>	2006 <i>US</i> <sub>125</sub>	11	3.0 303°72	2°0/ 4.5 18			<b>301948</b>	2000 <i>CZ</i> <sub>20</sub>	11	3.0 195°37	5°3/ 7.5 18		
9 28	2 58.98	+21 51.4	1.941	2.753	14.6	21.5	9 28	3 1.73	+32 26.1	2.223	2.979	14.7	20.5
10 8	2 54.32	+21 49.2	1.858	2.751	11.4	21.2	10 8	2 56.37	+32 42.3	2.133	2.977	12.2	20.3
10 18	2 47.38	+21 34.0	1.798	2.748	7.7	21.0	10 18	2 48.69	+32 40.6	2.065	2.975	9.4	20.2
10 28	2 38.85	+21 6.1	1.764	2.746	3.8	20.8	10 28	2 39.37	+32 18.9	2.021	2.973	6.7	20.0
11 7	2 29.70	+20 28.3	1.757	2.744	2.3	20.7	11 7	2 29.41	+31 37.8	2.005	2.970	5.3	19.9
11 17	2 21.01	+19 45.0	1.779	2.742	5.8	20.9	11 17	2 19.90	+30 40.8	2.017	2.967	6.4	20.0
11 27	2 13.82	+19 2.2	1.828	2.740	9.7	21.1	11 27	2 11.91	+29 34.3	2.058	2.964	9.1	20.1
12 7	2 8.83	+18 25.5	1.901	2.738	13.1	21.3	12 7	2 6.15	+28 25.8	2.123	2.960	11.9	20.3
<b>78774</b>	2002 <i>VK</i> <sub>53</sub>	11	3.0 130°05	1°1/ 2.3 18			<b>316603</b>	2011 <i>UJ</i> <sub>359</sub>	11	3.0 81°91	2°3/ 4.8 18		
9 28	3 3.69	+14 5.7	1.870	2.695	14.6	19.7	9 28	2 59.80	+22 53.5	1.929	2.737	14.8	20.8
10 8	2 57.61	+13 38.6	1.806	2.711	11.0	19.5	10 8	2 54.90	+22 53.6	1.854	2.743	11.6	20.6
10 18	2 49.29	+13 3.4	1.765	2.725	6.9	19.3	10 18	2 47.72	+22 39.8	1.801	2.749	7.9	20.4
10 28	2 39.50	+12 23.2	1.751	2.739	2.6	19.1	10 28	2 38.98	+22 12.5	1.774	2.754	4.1	20.2
11 7	2 29.31	+11 42.5	1.766	2.753	2.4	19.1	11 7	2 29.69	+21 34.4	1.774	2.760	2.5	20.1
11 17	2 19.80	+11 6.3	1.811	2.766	6.6	19.4	11 17	2 20.96	+20 50.1	1.803	2.766	5.8	20.3
11 27	2 11.93	+10 39.0	1.882	2.778	10.4	19.7	11 27	2 13.77	+20 5.6	1.859	2.771	9.5	20.6
12 7	2 6.34	+10 23.8	1.978	2.789	13.7	19.9	12 7	2 8.81	+19 26.6	1.940	2.777	12.8	20.8
<b>395916</b>	2013 <i>AP</i> <sub>89</sub>	11	3.0 39°49	9°7/28.5 18			<b>402168</b>	2004 <i>RB</i> <sub>323</sub>	11	3.0 31°84	6°7/ 8.0 17		
9 28	3 0.29	- 7 59.5	1.559	2.402	16.1	20.0	9 28	3 1.39	+33 22.5	1.942	2.704	16.3	20.6
10 8	2 55.28	- 9 0.2	1.516	2.413	13.2	19.9	10 8	2 56.45	+34 9.9	1.868	2.711	13.7	20.4
10 18	2 47.88	- 9 48.4	1.494	2.424	10.8	19.8	10 18	2 48.90	+34 38.3	1.813	2.718	10.8	20.2
10 28	2 38.96	-10 15.8	1.495	2.435	9.7	19.7	10 28	2 39.49	+34 44.4	1.782	2.726	8.1	20.1
11 7	2 29.69	-10 16.8	1.522	2.447	10.6	19.8	11 7	2 29.36	+34 27.6	1.777	2.734	6.7	20.0
11 17	2 21.20	- 9 49.7	1.572	2.459	12.8	20.0	11 17	2 19.77	+33 51.1	1.798	2.742	7.6	20.1
11 27	2 14.50	- 8 55.9	1.645	2.471	15.4	20.2	11 27	2 11.93	+33 1.1	1.846	2.750	10.0	20.3
12 7	2 10.21	- 7 39.9	1.738	2.484	17.8	20.4	12 7	2 6.62	+32 6.0	1.918	2.759	12.8	20.5
<b>439308</b>	2012 <i>VS</i> <sub>58</sub>	11	3.0 293°67	1°0/ 2.4 18			<b>412945</b>	2014 <i>QF</i> <sub>227</sub>	11	3.0 0°54	1°9/ 4.4 18		
9 28	2 59.31	+14 11.0	1.646	2.486	15.5	21.6	9 28	2 57.45	+20 57.3	1.872	2.692	14.7	20.6
10 8	2 54.94	+13 51.3	1.561	2.474	11.9	21.4	10 8	2 53.23	+21 4.4	1.794	2.691	11.5	20.4
10 18	2 47.98	+13 22.3	1.498	2.461	7.6	21.1	10 18	2 46.73	+20 59.3	1.738	2.690	7.7	20.2
10 28	2 39.14	+12 46.8	1.460	2.449	2.9	20.8	10 28	2 38.64	+20 42.7	1.707	2.690	3.8	20.0
11 7	2 29.49	+12 9.5	1.449	2.437	2.6	20.7	11 7	2 29.93	+20 16.7	1.703	2.691	2.2	19.9
11 17	2 20.28	+11 35.8	1.466	2.424	7.4	21.0	11 17	2 21.69	+19 45.6	1.728	2.692	5.8	20.1
11 27	2 12.71	+11 11.3	1.508	2.412	11.9	21.2	11 27	2 14.95	+19 14.7	1.779	2.693	9.7	20.3
12 7	2 7.61	+11 0.1	1.573	2.401	15.8	21.4	12 7	2 10.42	+18 49.1	1.854	2.695	13.2	20.6
<b>487465</b>	2014 <i>SY</i> <sub>133</sub>	11	3.0 127°58	1°2/ 3.9 18			<b>310368</b>	2011 <i>UQ</i> <sub>336</sub>	11	3.0 269°63	2°4/ 1.4 18		
9 28	3 0.92	+18 57.4	2.651	3.450	11.5	21.0	9 28	2 59.53	+ 9 45.2	1.911	2.749	13.8	20.5
10 8	2 55.09	+19 14.4	2.573	3.459	8.8	20.8	10 8	2 54.65	+ 9 23.0	1.831	2.743	10.5	20.3
10 18	2 47.55	+19 24.0	2.519	3.468	5.8	20.7	10 18	2 47.56	+ 8 56.5	1.775	2.737	6.7	20.0
10 28	2 38.84	+19 26.3	2.493	3.477	2.7	20.5	10 28	2 38.94	+ 8 29.1	1.744	2.731	3.1	19.8
11 7	2 29.73	+19 22.8	2.498	3.485	1.6	20.4	11 7	2 29.73	+ 8 5.2	1.742	2.725	3.4	19.8
11 17	2 20.99	+19 15.5	2.533	3.493	4.5	20.6	11 17	2 20.95	+ 7 48.6	1.769	2.719	7.2	20.0
11 27	2 13.38	+19 7.5	2.598	3.501	7.6	20.8	11 27	2 13.59	+ 7 43.1	1.822	2.713	11.0	20.3
12 7	2 7.46	+19 2.0	2.690	3.509	10.2	21.0	12 7	2 8.35	+ 7 50.6	1.898	2.706	14.3	20.5
<b>214032</b>	2004 <i>EE</i> <sub>4</sub>	11	3.0 192°46	0°0/ 2.8 18			<b>275489</b>	4518 <i>T</i> <sub>-3</sub>	11	3.0 338°64	0°7/ 2.8 18		
9 28	3 2.55	+14 44.6	2.086	2.906	13.5	20.3	9 28	3 3.02	+11 48.4	1.179	2.038	19.2	19.6
10 8	2 56.80	+14 55.8	2.005	2.905	10.3	20.1	10 8	2 58.76	+12 23.0	1.105	2.027	14.8	19.3
10 18	2 48.86	+15 0.9	1.946	2.904	6.6	19.9	10 18	2 50.96	+12 54.2	1.050	2.016	9.6	19.0
10 28	2 39.41	+15 0.8	1.915	2.903	2.5	19.6	10 28	2 40.44	+13 22.8	1.018	2.007	3.7	18.6
11 7	2 29.36	+14 57.7	1.914	2.902	1.7	19.5	11 7	2 28.69	+13 50.5	1.010	1.999	2.7	18.5
11 17	2 19.73	+14 54.1	1.942	2.901	5.8	19.8	11 17	2 17.50	+14 19.7	1.028	1.992	8.8	18.9
11 27	2 11.50	+14 53.6	1.998	2.899	9.6	20.0	11 27	2 8.61	+14 53.6	1.068	1.986	14.3	19.1
12 7	2 5.37	+14 59.0	2.079	2.898	12.8	20.3	12 7	2 3.16	+15 35.2	1.129	1.981	19.1	19.4
<b>159777</b>	2003 <i>KX</i>	11	3.0 53°71	5°0/ 7.0 18			<b>204511</b>	2005 <i>CP</i> <sub>79</sub>	11	3.0 102°56	4°6/30.8 18		
9 28	3 0.96	+30 59.7	1.436	2.234	19.5	19.1	9 28	3 1.38	+ 3 22.1	1.983	2.820	13.4	19.8
10 8	2 56.32	+30 40.8	1.382	2.256	15.7	18.9	10 8	2 55.62	+ 2 39.2	1.931	2.839	10.2	19.7
10 18	2 48.75	+29 55.4	1.347	2.279	11.5	18.7	10 18	2 47.91	+ 1 57.5	1.902	2.857	7.0	19.5
10 28	2 39.33	+28 43.7	1.335	2.303	7.3	18.6	10 28	2 38.99	+ 1 22.0	1.901	2.876	4.7	19.4
11 7	2 29.52	+27 10.9	1.348	2.327	5.0	18.5	11 7	2 29.77	+ 0 57.2	1.928	2.894	5.4	19.5
11 17	2 20.75	+25 26.5	1.388	2.350	7.2	18.7	11 17	2 21.20	+ 0 46.5	1.984	2.911	8.2	19.7
11 27	2 14.22	+23 42.1	1.454	2.374	11.0	19.0	11 27	2 14.11	+ 0 51.7	2.066	2.928	11.2	19.9
12 7	2 10.57	+22 7.9	1.544	2.399	14.6	19.3	12 7	2 9.04	+ 1 12.4	2.171	2.945	13.8	20.1
<b>38208</b>	1999 <i>MO</i> <sub>1</sub>	11	3.0 73°91	9°7/28.3 18			<b>97644</b>	2000 <i>ET</i> <sub>171</sub>	11	3.0 283°99	3°6/31.2 18		
9 28	3 2.05	- 8 20.0	1.622	2.459	15.8	18.1	9 28	2 57.24	+ 4 44.9	2.314	3.151	11.7	19.1
10 8	2 56.41	- 9 30.6	1.586	2.478	13.0	17.9	10 8	2 52.50	+ 4 16.6	2.236	3.145	9.0	18.9
10 18	2 48.49	-10 28.4	1.572	2.497	10.7	17.8	10 18	2 46.00	+ 3 48.0	2.182	3.140	6.0	18.8
10 28	2 39.18	-11 5.2	1.582	2.516	9.7	17.8	10 28	2 38.31	+ 3 23.0	2.156	3.135	3.8	18.6
11 7	2 29.61	-11 15.6	1.617	2.535	10.6	17.9	11 7	2 30.17	+ 3 5.3	2.159	3.130	4.4	18.6
11 17	2 20.90	-10 57.7	1.676	2.554	12.6	18.1	11 17	2 22.40	+ 2 58.0	2.190	3.124	7.1	18.8
11 27	2 13.98	-10 13.1	1.759	2.573	15.1	18.3	11 27	2 15.76	+ 3 3.3	2.248	3.119	10.1	19.0
12 7	2 9.42	- 9 6.3	1.860	2.591	17.3	18.5	12 7	2 10.83	+ 3 21.8	2.331	3.114	12.7	19.2
<b>244326</b>	2002 <i>HN</i> <sub>16</sub>	11	3.0 222°88	6°6/29.5 18			<b>408565</b>	2013 <i>KQ</i> <sub>18</sub>	11	3.0 106°77	10°6/23.0		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>92299</b>	2000 <i>EB</i> <sub>170</sub>		11 3.0 344°73	3°4/ 4.2	17		<b>304399</b>	2006 <i>TP</i> <sub>14</sub>		11 3.0 15°28	3°2/ 5.3	18	
9 28	2 57.68	+18 36.5	1.302	2.151	18.3	17.3	9 28	2 59.74	+24 34.1	1.811	2.618	15.7	20.5
10 8	2 54.73	+19 48.4	1.214	2.127	14.5	17.0	10 8	2 55.12	+24 43.5	1.733	2.618	12.5	20.3
10 18	2 48.49	+20 53.9	1.145	2.104	10.1	16.7	10 18	2 48.02	+24 37.4	1.676	2.620	8.7	20.1
10 28	2 39.57	+21 50.1	1.099	2.083	5.3	16.3	10 28	2 39.18	+24 15.4	1.644	2.621	4.9	19.9
11 7	2 29.23	+22 35.2	1.078	2.064	3.8	16.2	11 7	2 29.68	+23 39.7	1.638	2.622	3.3	19.8
11 17	2 19.10	+23 9.3	1.081	2.047	8.1	16.4	11 17	2 20.71	+22 54.7	1.661	2.624	6.2	20.0
11 27	2 10.93	+23 35.9	1.108	2.033	13.2	16.6	11 27	2 13.39	+22 7.1	1.711	2.626	10.0	20.2
12 7	2 5.98	+24 0.4	1.156	2.021	17.8	16.9	12 7	2 8.48	+21 23.5	1.784	2.628	13.5	20.4
<b>35484</b>	1998 <i>FC</i> <sub>14</sub>		11 3.0 183°59	4°4/ 5.7	18		<b>282037</b>	1998 <i>QD</i> <sub>49</sub>		11 3.0 59°53	4°4/ 5.9	18	
9 28	3 5.13	+26 21.4	1.910	2.696	15.7	19.2	9 28	3 4.32	+26 23.5	1.595	2.396	17.7	19.8
10 8	2 59.25	+27 1.0	1.826	2.697	12.7	19.0	10 8	2 58.66	+26 50.9	1.541	2.420	14.1	19.7
10 18	2 50.70	+27 26.2	1.764	2.697	9.2	18.8	10 18	2 50.23	+27 0.2	1.506	2.444	10.1	19.5
10 28	2 40.21	+27 34.5	1.728	2.696	5.9	18.6	10 28	2 39.97	+26 49.9	1.496	2.468	6.1	19.3
11 7	2 28.90	+27 25.9	1.719	2.696	4.4	18.5	11 7	2 29.22	+26 22.0	1.512	2.492	4.4	19.3
11 17	2 18.07	+27 3.2	1.739	2.695	6.6	18.7	11 17	2 19.36	+25 41.5	1.556	2.516	6.8	19.5
11 27	2 8.93	+26 32.2	1.786	2.694	10.1	18.9	11 27	2 11.56	+24 56.2	1.626	2.541	10.5	19.7
12 7	2 2.35	+25 59.7	1.857	2.693	13.4	19.1	12 7	2 6.55	+24 13.4	1.720	2.565	13.8	20.0
<b>52054</b>	2002 <i>PB</i> <sub>121</sub>		11 3.0 33°19	3°9/30.9	18 R		<b>490501</b>	2009 <i>UF</i> <sub>36</sub>		11 3.0 329°92	1°2/ 2.2	17	
9 28	2 56.08	+ 9 34.3	1.628	2.482	15.0	19.0	9 28	2 54.75	+14 16.7	1.847	2.689	14.0	21.6
10 8	2 52.18	+ 8 14.0	1.566	2.486	11.3	18.8	10 8	2 51.21	+13 44.9	1.761	2.675	10.7	21.3
10 18	2 46.01	+ 6 46.7	1.527	2.491	7.3	18.5	10 18	2 45.49	+13 3.9	1.698	2.662	6.8	21.1
10 28	2 38.33	+ 5 19.4	1.513	2.497	4.1	18.4	10 28	2 38.21	+12 17.0	1.660	2.649	2.6	20.8
11 7	2 30.20	+ 4 0.4	1.527	2.502	5.2	18.4	11 7	2 30.30	+11 28.8	1.650	2.637	2.5	20.8
11 17	2 22.68	+ 2 56.9	1.568	2.508	8.8	18.7	11 17	2 22.77	+10 45.0	1.668	2.625	6.7	21.0
11 27	2 16.77	+ 2 14.1	1.634	2.515	12.6	18.9	11 27	2 16.61	+10 10.9	1.711	2.614	10.8	21.2
12 7	2 13.09	+ 1 53.6	1.721	2.521	15.9	19.2	12 7	2 12.54	+ 9 50.2	1.778	2.604	14.3	21.4
<b>155002</b>	2005 <i>NN</i> <sub>102</sub>		11 3.0 26°72	3°2/ 1.6	18		<b>144771</b>	2004 <i>HQ</i> <sub>22</sub>		11 3.0 334°18	0°2/ 2.9	18	
9 28	2 57.08	+12 5.3	0.778	1.672	22.9	17.9	9 28	2 56.89	+16 56.6	1.765	2.600	14.8	20.3
10 8	2 54.20	+11 20.9	0.759	1.700	17.1	17.7	10 8	2 52.88	+16 27.4	1.686	2.595	11.4	20.1
10 18	2 47.63	+10 27.3	0.756	1.730	10.6	17.5	10 18	2 46.55	+15 46.5	1.629	2.591	7.3	19.9
10 28	2 38.90	+ 9 33.4	0.773	1.762	4.5	17.3	10 28	2 38.61	+14 56.9	1.598	2.586	2.8	19.6
11 7	2 29.96	+ 8 49.0	0.810	1.796	4.8	17.4	11 7	2 30.06	+14 3.3	1.594	2.582	2.0	19.5
11 17	2 22.56	+ 8 21.7	0.870	1.832	10.4	17.9	11 17	2 22.00	+13 11.6	1.618	2.579	6.5	19.8
11 27	2 17.96	+ 8 15.6	0.950	1.869	15.5	18.3	11 27	2 15.46	+12 27.9	1.668	2.575	10.7	20.0
12 7	2 16.70	+ 8 30.7	1.048	1.908	19.6	18.7	12 7	2 11.16	+11 56.8	1.742	2.572	14.4	20.3
<b>78805</b>	2003 <i>NN</i> <sub>9</sub>		11 3.0 65°53	5°7/31.1	18		<b>96769</b>	1999 <i>RC</i> <sub>51</sub>		11 3.0 51°96	10°4/26.9	18	
9 28	3 3.52	+ 5 26.5	1.203	2.065	18.7	19.5	9 28	2 58.36	- 5 56.6	1.412	2.268	16.7	18.4
10 8	2 58.19	+ 4 26.0	1.164	2.086	14.2	19.3	10 8	2 53.92	- 7 50.9	1.383	2.288	13.6	18.3
10 18	2 49.90	+ 3 25.0	1.145	2.108	9.5	19.1	10 18	2 47.06	- 9 33.2	1.375	2.308	11.2	18.2
10 28	2 39.78	+ 2 31.7	1.150	2.130	6.0	19.0	10 28	2 38.71	-10 52.7	1.391	2.329	10.4	18.2
11 7	2 29.32	+ 1 54.1	1.180	2.152	6.9	19.1	11 7	2 30.10	-11 41.4	1.430	2.350	11.5	18.3
11 17	2 19.99	+ 1 37.5	1.235	2.174	10.8	19.4	11 17	2 22.37	-11 56.0	1.493	2.371	13.9	18.5
11 27	2 12.97	+ 1 44.1	1.312	2.196	14.9	19.7	11 27	2 16.52	-11 37.7	1.577	2.393	16.4	18.8
12 7	2 8.89	+ 2 12.2	1.410	2.218	18.4	20.0	12 7	2 13.10	-10 51.4	1.679	2.415	18.7	19.0
<b>412701</b>	2014 <i>OH</i> <sub>279</sub>		11 3.0 5°16	2°1/ 1.8	17		<b>265040</b>	2003 <i>QQ</i> <sub>2</sub>		11 3.0 170°27	4°1/ 6.9	18	
9 28	2 56.86	+10 34.6	1.663	2.513	14.9	20.4	9 28	2 58.94	+30 18.9	2.502	3.265	13.0	20.6
10 8	2 52.85	+10 20.9	1.595	2.513	11.3	20.2	10 8	2 53.94	+30 26.8	2.414	3.266	10.7	20.5
10 18	2 46.51	+10 2.5	1.549	2.514	7.2	20.0	10 18	2 47.01	+30 19.4	2.349	3.268	8.0	20.3
10 28	2 38.56	+ 9 42.8	1.528	2.516	3.1	19.7	10 28	2 38.75	+29 55.9	2.310	3.269	5.4	20.1
11 7	2 30.04	+ 9 26.0	1.534	2.519	3.2	19.8	11 7	2 30.00	+29 17.5	2.299	3.270	4.1	20.1
11 17	2 22.07	+ 9 16.2	1.568	2.523	7.3	20.0	11 17	2 21.65	+28 27.4	2.317	3.270	5.4	20.1
11 27	2 15.68	+ 9 17.0	1.626	2.527	11.4	20.3	11 27	2 14.56	+27 30.8	2.363	3.271	8.0	20.3
12 7	2 11.57	+ 9 30.3	1.707	2.533	14.9	20.5	12 7	2 9.36	+26 33.8	2.436	3.271	10.6	20.5
<b>156047</b>	2001 <i>SG</i> <sub>31</sub>		11 3.0 319°46	0°7/ 3.4	18		<b>183239</b>	2002 <i>TS</i> <sub>90</sub>		11 3.0 113°67	2°7/ 4.8	18	
9 28	3 0.72	+16 49.6	1.396	2.239	17.6	20.3	9 28	3 3.79	+23 17.3	1.606	2.418	17.1	20.2
10 8	2 56.57	+17 0.8	1.314	2.227	13.7	20.0	10 8	2 58.35	+23 20.6	1.537	2.428	13.5	19.9
10 18	2 49.34	+17 1.2	1.253	2.215	9.0	19.7	10 18	2 50.12	+23 7.4	1.489	2.437	9.2	19.7
10 28	2 39.79	+16 51.6	1.216	2.204	3.7	19.4	10 28	2 39.98	+22 37.7	1.466	2.447	4.8	19.5
11 7	2 29.19	+16 35.0	1.204	2.193	2.2	19.3	11 7	2 29.22	+21 54.6	1.469	2.456	3.0	19.4
11 17	2 19.08	+16 16.0	1.218	2.182	7.6	19.6	11 17	2 19.19	+21 3.7	1.501	2.464	6.6	19.6
11 27	2 10.93	+16 0.8	1.257	2.173	12.7	19.8	11 27	2 11.12	+20 12.8	1.559	2.473	10.9	19.9
12 7	2 5.75	+15 55.0	1.317	2.164	17.2	20.1	12 7	2 5.79	+19 28.8	1.640	2.481	14.6	20.2
<b>6371</b>	Heinlein		11 3.0 251°57	6°7/27.7	18 R		<b>147791</b>	2005 <i>QF</i> <sub>178</sub>		11 3.1 29°54	0°6/ 3.5	18	
9 28	2 56.29	- 5 13.7	2.449	3.280	11.3	17.1	9 28	2 57.99	+18 28.8	1.827	2.654	14.7	20.4
10 8	2 51.71	- 6 17.4	2.376	3.269	9.2	17.0	10 8	2 53.59	+18 15.3	1.755	2.658	11.3	20.1
10 18	2 45.48	- 7 15.9	2.327	3.258	7.4	16.8	10 18	2 46.93	+17 50.4	1.705	2.663	7.3	19.9
10 28	2 38.13	- 8 3.5	2.305	3.246	6.7	16.8	10 28	2 38.74	+17 15.9	1.680	2.668	3.0	19.7
11 7	2 30.36	- 8 35.4	2.311	3.235	7.5	16.8	11 7	2 30.03	+16 35.7	1.684	2.673	1.7	19.6
11 17	2 22.93	- 8 48.3	2.344	3.223	9.4	16.9	11 17	2 21.85	+15 54.7	1.715	2.678	6.0	19.9
11 27	2 16.55	- 8 40.9	2.401	3.211	11.7	17.0	11 27	2 15.21	+15 18.5	1.774	2.684	10.0	20.1
12 7	2 11.77	- 8 14.1	2.481	3.199	13.7	17.2	12 7	2 10.78	+14 51.6	1.856	2.690	13.5	20.4
<b>91854</b>	1999 <i>UA</i> <sub>9</sub>		11 3.0 46°89	1°5/ 2.1	18		<b>262947</b>	2007 <i>DT</i> <sub>45</sub>		11 3.1 112°68	4°1/		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>289527</b>	2005 <i>EJ</i> <sub>192</sub>	11	3.1 336°51	1°6/ 3.9	18		<b>104614</b>	2000 <i>GD</i> <sub>104</sub>	11	3.1 214°31	1°9/ 1.7	18	
9 28	2 57.38	+19 50.9	1.113	1.971	20.2	20.4	9 28	3 1.14	+12 17.2	1.796	2.631	14.6	19.8
10 8	2 54.64	+19 49.3	1.041	1.960	15.8	20.1	10 8	2 56.04	+11 40.7	1.716	2.627	11.1	19.6
10 18	2 48.41	+19 29.3	0.986	1.949	10.5	19.8	10 18	2 48.56	+10 56.3	1.659	2.621	7.1	19.3
10 28	2 39.51	+18 52.0	0.953	1.940	4.7	19.4	10 28	2 39.41	+10 7.9	1.628	2.616	3.0	19.0
11 7	2 29.48	+18 2.0	0.943	1.932	2.6	19.3	11 7	2 29.63	+9 20.7	1.625	2.610	3.2	19.1
11 17	2 20.09	+17 7.4	0.956	1.925	8.5	19.6	11 17	2 20.34	+8 40.3	1.651	2.603	7.4	19.3
11 27	2 13.06	+16 18.5	0.993	1.918	14.2	19.9	11 27	2 12.61	+8 11.7	1.704	2.596	11.5	19.5
12 7	2 9.43	+15 43.6	1.048	1.913	19.2	20.2	12 7	2 7.17	+7 58.2	1.779	2.589	15.0	19.7
<b>452480</b>	2004 <i>CG</i> <sub>40</sub>	11	3.1 256°29	1°2/ 3.8	18		<b>265533</b>	2005 <i>ND</i> <sub>42</sub>	11	3.1 162°55	4°7/30.8	16	
9 28	3 3.35	+18 2.0	2.112	2.922	13.6	21.1	9 28	3 1.22	+5 51.8	1.667	2.513	15.1	20.9
10 8	2 57.64	+18 22.8	2.014	2.907	10.6	20.9	10 8	2 56.07	+4 51.1	1.602	2.516	11.5	20.7
10 18	2 49.60	+18 35.7	1.940	2.893	7.0	20.7	10 18	2 48.53	+3 47.6	1.559	2.519	7.7	20.5
10 28	2 39.83	+18 40.7	1.893	2.878	3.1	20.4	10 28	2 39.37	+2 47.9	1.543	2.522	4.9	20.4
11 7	2 29.27	+18 38.8	1.875	2.863	1.8	20.3	11 7	2 29.69	+1 58.9	1.554	2.524	5.9	20.4
11 17	2 18.97	+18 32.6	1.887	2.848	5.7	20.5	11 17	2 20.63	+1 26.2	1.592	2.526	9.3	20.6
11 27	2 10.02	+18 25.9	1.927	2.833	9.6	20.7	11 27	2 13.25	+1 13.3	1.656	2.527	13.0	20.9
12 7	2 3.22	+18 22.7	1.993	2.817	13.1	20.9	12 7	2 8.23	+1 20.7	1.740	2.529	16.2	21.1
<b>16642</b>	1993 <i>RK</i> <sub>4</sub>	11	3.1 228°92	1°1/ 3.8	18	R	<b>65838</b>	1996 <i>XD</i> <sub>26</sub>	11	3.1 330°00	2°9/ 1.4	18	
9 28	3 1.34	+19 50.2	1.853	2.670	15.0	19.3	9 28	2 59.47	+9 29.2	1.518	2.370	16.0	18.6
10 8	2 56.28	+19 36.9	1.765	2.662	11.7	19.1	10 8	2 55.16	+9 5.3	1.444	2.363	12.2	18.4
10 18	2 48.77	+19 10.6	1.699	2.654	7.7	18.8	10 18	2 48.19	+8 36.4	1.392	2.357	7.9	18.1
10 28	2 39.50	+18 32.5	1.660	2.646	3.4	18.5	10 28	2 39.31	+8 7.0	1.364	2.350	3.7	17.9
11 7	2 29.52	+17 46.0	1.648	2.637	1.8	18.4	11 7	2 29.70	+7 42.4	1.362	2.345	4.1	17.9
11 17	2 19.98	+16 56.3	1.666	2.628	6.2	18.7	11 17	2 20.62	+7 27.6	1.387	2.339	8.5	18.1
11 27	2 12.01	+16 9.8	1.710	2.619	10.5	18.9	11 27	2 13.30	+7 26.7	1.437	2.335	12.8	18.4
12 7	2 6.38	+15 32.2	1.779	2.609	14.2	19.1	12 7	2 8.54	+7 41.8	1.508	2.330	16.7	18.6
<b>317777</b>	2003 <i>SM</i> <sub>131</sub>	11	3.1 32°79	1°4/ 3.7	18		<b>443531</b>	2014 <i>JU</i> <sub>72</sub>	11	3.1 130°94	0°3/ 2.8	18	
9 28	3 1.60	+18 31.1	1.046	1.905	21.1	19.5	9 28	2 58.64	+16 48.6	2.040	2.864	13.6	21.4
10 8	2 57.59	+18 42.3	0.998	1.917	16.3	19.3	10 8	2 53.81	+16 16.0	1.967	2.870	10.3	21.2
10 18	2 50.02	+18 37.6	0.967	1.930	10.6	19.0	10 18	2 46.95	+15 33.3	1.916	2.876	6.6	21.0
10 28	2 40.00	+18 18.3	0.957	1.945	4.5	18.7	10 28	2 38.75	+14 43.3	1.893	2.881	2.5	20.8
11 7	2 29.28	+17 49.0	0.971	1.960	2.5	18.7	11 7	2 30.10	+13 50.4	1.898	2.886	1.8	20.7
11 17	2 19.66	+17 16.9	1.009	1.976	8.3	19.1	11 17	2 21.97	+12 59.7	1.933	2.891	5.9	21.0
11 27	2 12.68	+16 50.1	1.070	1.993	13.6	19.4	11 27	2 15.23	+12 16.3	1.995	2.896	9.6	21.2
12 7	2 9.14	+16 35.0	1.150	2.011	18.1	19.8	12 7	2 10.49	+11 44.2	2.082	2.901	12.8	21.5
<b>174243</b>	2002 <i>RC</i> <sub>149</sub>	11	3.1 357°88	3°5/ 5.8	18		<b>273529</b>	2007 <i>BH</i> <sub>27</sub>	11	3.1 7°47	3°6/ 4.9	18	
9 28	2 56.54	+27 25.0	1.602	2.412	17.2	19.5	9 28	2 57.27	+22 34.9	1.062	1.917	21.2	19.9
10 8	2 52.99	+27 0.0	1.524	2.410	13.8	19.3	10 8	2 54.59	+22 59.6	1.003	1.917	16.7	19.6
10 18	2 46.78	+26 12.4	1.466	2.409	9.8	19.1	10 18	2 48.32	+23 4.3	0.961	1.919	11.6	19.3
10 28	2 38.74	+25 3.0	1.432	2.408	5.6	18.8	10 28	2 39.46	+22 48.0	0.939	1.922	6.2	19.1
11 7	2 30.05	+23 36.2	1.424	2.408	3.5	18.7	11 7	2 29.62	+22 13.9	0.940	1.927	3.9	18.9
11 17	2 22.00	+21 59.8	1.443	2.408	6.6	18.9	11 17	2 20.66	+21 29.0	0.965	1.933	8.3	19.2
11 27	2 15.75	+20 24.1	1.489	2.409	10.8	19.2	11 27	2 14.21	+20 43.6	1.011	1.941	13.5	19.5
12 7	2 12.07	+18 58.3	1.558	2.411	14.6	19.4	12 7	2 11.22	+20 6.6	1.078	1.950	18.2	19.9
<b>50410</b>	2000 <i>CK</i> <sub>126</sub>	11	3.1 9°77	6°8/29.6	18		<b>471692</b>	2012 <i>TZ</i> <sub>232</sub>	11	3.1 339°73	1°2/ 2.3	16	
9 28	2 57.74	+0 28.3	1.588	2.443	15.2	18.6	9 28	2 53.11	+15 50.5	1.176	2.045	18.6	21.0
10 8	2 53.52	-0 33.1	1.529	2.444	11.9	18.4	10 8	2 51.11	+15 12.0	1.101	2.029	14.3	20.7
10 18	2 46.93	-1 31.5	1.492	2.445	8.7	18.2	10 18	2 46.00	+14 17.4	1.045	2.014	9.1	20.3
10 28	2 38.75	-2 19.3	1.480	2.447	6.8	18.1	10 28	2 38.58	+13 11.0	1.011	2.001	3.5	20.0
11 7	2 30.06	-2 49.8	1.493	2.449	7.8	18.2	11 7	2 30.18	+12 1.0	1.001	1.989	3.1	19.9
11 17	2 21.99	-2 58.5	1.532	2.452	10.8	18.4	11 17	2 22.34	+10 56.8	1.015	1.978	9.0	20.2
11 27	2 15.56	-2 43.8	1.595	2.455	14.0	18.6	11 27	2 16.54	+10 8.0	1.051	1.969	14.4	20.5
12 7	2 11.46	-2 7.2	1.678	2.459	17.0	18.8	12 7	2 13.75	+9 40.4	1.107	1.962	19.1	20.8
<b>183750</b>	2003 <i>YD</i> <sub>164</sub>	11	3.1 72°35	3°3/ 5.2	18		<b>108440</b>	2001 <i>KP</i> <sub>44</sub>	11	3.1 62°26	6°5/30.2	18	
9 28	3 3.05	+25 12.7	1.359	2.179	19.3	20.1	9 28	3 1.33	-0 16.3	1.657	2.503	15.1	19.2
10 8	2 58.08	+25 2.5	1.302	2.195	15.2	19.9	10 8	2 55.86	-1 7.3	1.618	2.527	11.8	19.1
10 18	2 50.04	+24 30.8	1.264	2.212	10.5	19.7	10 18	2 48.18	-1 53.1	1.600	2.550	8.5	18.9
10 28	2 39.96	+23 38.3	1.249	2.229	5.6	19.5	10 28	2 39.17	-2 27.1	1.608	2.574	6.5	18.9
11 7	2 29.32	+22 29.7	1.260	2.245	3.4	19.4	11 7	2 29.91	-2 44.2	1.643	2.598	7.3	19.0
11 17	2 19.68	+21 13.5	1.297	2.262	7.2	19.7	11 17	2 21.47	-2 41.5	1.704	2.622	10.0	19.2
11 27	2 12.32	+19 59.7	1.360	2.279	11.7	20.0	11 27	2 14.74	-2 18.7	1.790	2.645	13.0	19.4
12 7	2 7.99	+18 56.9	1.445	2.295	15.7	20.3	12 7	2 10.30	-1 37.7	1.897	2.669	15.6	19.7
<b>65717</b>	1993 <i>BX</i> <sub>3</sub>	11	3.1 317°56	9°8/26.8	16	R	<b>299101</b>	2005 <i>EW</i> <sub>108</sub>	11	3.1 279°76	6°3/ 7.1	16	
9 28	2 26.42	+11 4.1	0.339	1.300	24.8	20.2	9 28	3 3.14	+31 24.3	1.903	2.673	16.3	21.5
10 8	2 32.50	+9 27.7	0.278	1.257	19.2	19.5	10 8	2 58.18	+32 7.6	1.801	2.653	13.7	21.3
10 18	2 35.25	+6 51.1	0.226	1.215	13.0	18.8	10 18	2 50.34	+32 33.7	1.718	2.633	10.7	21.1
10 28	2 34.83	+3 7.2	0.184	1.174	9.9	18.1	10 28	2 40.26	+32 38.5	1.660	2.613	7.7	20.8
11 7	2 32.35	-1 41.4	0.151	1.135	16.0	17.8	11 7	2 29.05	+32 20.6	1.627	2.592	6.3	20.7
11 17	2 29.74	-7 20.6	0.126	1.099	26.9	17.7	11 17	2 18.08	+31 41.9	1.622	2.571	7.8	20.8
11 27	2 30.40	-13 24.4	0.106	1.067	38.7	17.6	11 27	2 8.75	+30 48.9	1.643	2.550	10.9	20.9
12 7	2 38.17	-19 40.5	0.090	1.041	49.9	17.5	12 7	2 2.09	+29 50.3	1.688	2.529	14.3	21.1
<b>362482</b>	2010 <i>SX</i> <sub>32</sub>	11	3.1 132°35	3°5/31.2	18		<b>385571</b>	Otrera	11	3.1 7°39	0°0/ 3.0	13	C
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>487204</b>	2014 <i>OY</i> <sub>374</sub>	11	3.1 356°29	6°4/29.3	18		<b>452527</b>	2004 <i>TN</i> <sub>77</sub>	11	3.1 65°93	0°7/ 2.4	18	
9 28	2 56.27	- 0 33.0	1.858	2.707	13.6	20.5	9 28	2 55.89	+17 32.2	2.083	2.910	13.2	20.9
10 8	2 52.13	- 1 32.7	1.795	2.705	10.7	20.3	10 8	2 51.62	+16 27.6	2.016	2.921	10.0	20.7
10 18	2 45.95	- 2 29.0	1.754	2.704	8.0	20.1	10 18	2 45.50	+15 11.6	1.973	2.933	6.3	20.5
10 28	2 38.40	- 3 15.4	1.740	2.703	6.5	20.1	10 28	2 38.20	+13 48.2	1.957	2.945	2.3	20.3
11 7	2 30.38	- 3 45.9	1.752	2.702	7.4	20.1	11 7	2 30.57	+12 23.5	1.970	2.958	2.0	20.3
11 17	2 22.86	- 3 56.5	1.790	2.702	10.0	20.3	11 17	2 23.49	+11 3.6	2.013	2.970	5.9	20.5
11 27	2 16.73	- 3 45.8	1.853	2.702	12.9	20.5	11 27	2 17.74	+ 9 54.7	2.084	2.982	9.4	20.8
12 7	2 12.61	- 3 14.6	1.936	2.703	15.5	20.6	12 7	2 13.85	+ 9 0.6	2.180	2.994	12.4	21.0
<b>77508</b>	2001 <i>HV</i> <sub>47</sub>	11	3.1 140°74	0°8/ 3.5	18		<b>137133</b>	1999 <i>CE</i> <sub>54</sub>	11	3.1 254°78	6°5/ 7.9	17	
9 28	3 4.90	+16 29.7	1.902	2.719	14.7	19.3	9 28	3 3.30	+34 8.1	2.208	2.953	15.1	20.2
10 8	2 58.84	+16 54.5	1.824	2.722	11.3	19.1	10 8	2 57.91	+34 51.5	2.109	2.940	12.8	20.0
10 18	2 50.35	+17 12.0	1.769	2.725	7.4	18.9	10 18	2 49.95	+35 17.8	2.030	2.928	10.2	19.8
10 28	2 40.13	+17 22.1	1.741	2.728	3.1	18.6	10 28	2 40.07	+35 23.3	1.976	2.915	7.7	19.7
11 7	2 29.25	+17 26.4	1.742	2.730	1.8	18.5	11 7	2 29.28	+35 6.7	1.948	2.902	6.5	19.6
11 17	2 18.86	+17 27.3	1.772	2.733	6.0	18.8	11 17	2 18.78	+34 30.0	1.949	2.889	7.4	19.6
11 27	2 10.06	+17 28.7	1.830	2.735	10.0	19.0	11 27	2 9.79	+33 38.8	1.976	2.875	9.8	19.7
12 7	2 3.63	+17 34.2	1.912	2.737	13.5	19.3	12 7	2 3.19	+32 40.6	2.029	2.861	12.5	19.9
<b>260404</b>	2004 <i>XS</i> <sub>7</sub>	11	3.1 282°74	4°5/ 7.7	18		<b>116748</b>	2004 <i>DX</i> <sub>51</sub>	11	3.1 117°07	4°3/30.4	18	
9 28	2 57.27	+32 34.8	2.325	3.085	14.0	20.1	9 28	2 57.98	+ 4 42.0	2.143	2.982	12.4	20.5
10 8	2 52.88	+32 19.9	2.232	3.080	11.6	19.9	10 8	2 53.07	+ 3 40.7	2.083	2.993	9.5	20.3
10 18	2 46.44	+31 45.9	2.159	3.074	8.8	19.7	10 18	2 46.37	+ 2 38.5	2.048	3.004	6.4	20.1
10 28	2 38.60	+30 52.0	2.112	3.069	6.0	19.5	10 28	2 38.53	+ 1 40.9	2.040	3.015	4.4	20.0
11 7	2 30.25	+29 40.3	2.093	3.063	4.5	19.4	11 7	2 30.37	+ 0 53.1	2.061	3.026	5.2	20.1
11 17	2 22.35	+28 15.4	2.102	3.058	5.7	19.5	11 17	2 22.72	+ 0 19.3	2.111	3.036	7.9	20.3
11 27	2 15.80	+26 44.3	2.141	3.053	8.5	19.7	11 27	2 16.35	+ 0 2.2	2.187	3.047	10.8	20.5
12 7	2 11.24	+25 14.6	2.205	3.047	11.3	19.8	12 7	2 11.79	+ 0 2.1	2.285	3.056	13.3	20.7
<b>343843</b>	2011 <i>HR</i> <sub>34</sub>	11	3.1 68°43	4°4/31.4	18		<b>321596</b>	2009 <i>UY</i> <sub>124</sub>	11	3.1 111°00	1°8/ 1.4	18	
9 28	3 1.24	+ 6 39.0	1.517	2.367	16.1	20.8	9 28	2 56.94	+11 18.2	2.477	3.305	11.3	21.7
10 8	2 56.09	+ 5 48.3	1.469	2.386	12.1	20.7	10 8	2 52.10	+10 40.4	2.411	3.318	8.5	21.5
10 18	2 48.49	+ 4 55.7	1.443	2.405	8.0	20.5	10 18	2 45.69	+ 9 57.9	2.370	3.331	5.4	21.3
10 28	2 39.34	+ 4 7.4	1.442	2.424	4.7	20.3	10 28	2 38.26	+ 9 14.0	2.356	3.343	2.4	21.1
11 7	2 29.83	+ 3 29.7	1.468	2.443	5.5	20.4	11 7	2 30.54	+ 8 32.6	2.373	3.356	2.6	21.2
11 17	2 21.16	+ 3 7.7	1.521	2.462	9.1	20.7	11 17	2 23.26	+ 7 57.2	2.420	3.368	5.6	21.4
11 27	2 14.35	+ 3 4.0	1.599	2.481	12.8	20.9	11 27	2 17.10	+ 7 31.2	2.494	3.380	8.6	21.6
12 7	2 10.00	+ 3 18.8	1.698	2.499	16.0	21.2	12 7	2 12.54	+ 7 16.4	2.594	3.391	11.2	21.8
<b>456815</b>	2007 <i>TK</i> <sub>372</sub>	11	3.1 9°19	0°3/ 3.3	16		<b>39817</b>	1997 <i>YN</i>	11	3.1 116°91	1°1/ 3.9	18	
9 28	2 57.16	+16 32.1	2.333	3.153	12.2	21.6	9 28	3 4.01	+20 42.4	1.576	2.397	17.0	19.3
10 8	2 52.55	+16 31.7	2.254	3.154	9.3	21.4	10 8	2 58.41	+20 17.5	1.512	2.411	13.1	19.1
10 18	2 46.12	+16 24.1	2.198	3.155	6.0	21.2	10 18	2 50.10	+19 36.8	1.470	2.425	8.6	18.8
10 28	2 38.47	+16 10.5	2.169	3.156	2.4	20.9	10 28	2 40.02	+18 42.4	1.452	2.438	3.7	18.6
11 7	2 30.35	+15 53.3	2.169	3.158	1.4	20.9	11 7	2 29.43	+17 39.5	1.462	2.451	2.0	18.5
11 17	2 22.61	+15 35.5	2.199	3.160	5.1	21.1	11 17	2 19.65	+16 35.2	1.501	2.464	6.7	18.8
11 27	2 16.03	+15 20.8	2.256	3.161	8.4	21.3	11 27	2 11.86	+15 37.1	1.566	2.476	11.1	19.1
12 7	2 11.21	+15 12.0	2.339	3.163	11.4	21.5	12 7	2 6.74	+14 51.4	1.654	2.487	14.9	19.4
<b>182776</b>	2001 <i>XJ</i> <sub>361</sub>	11	3.1 238°12	6°2/29.4	18		<b>50650</b>	2000 <i>EV</i> <sub>90</sub>	11	3.1 274°81	4°8/ 6.1	18	
9 28	2 59.76	- 3 4.9	2.204	3.035	12.4	20.0	9 28	3 2.33	+27 25.0	1.582	2.384	17.8	19.1
10 8	2 54.50	- 3 46.9	2.130	3.028	9.9	19.8	10 8	2 57.69	+27 45.9	1.499	2.378	14.5	18.9
10 18	2 47.36	- 4 23.7	2.081	3.021	7.5	19.6	10 18	2 50.03	+27 47.7	1.434	2.371	10.6	18.6
10 28	2 38.94	- 4 50.1	2.059	3.014	6.3	19.5	10 28	2 40.13	+27 28.0	1.394	2.365	6.7	18.4
11 7	2 30.05	- 5 1.5	2.064	3.007	7.0	19.6	11 7	2 29.28	+26 47.7	1.379	2.358	4.8	18.3
11 17	2 21.57	- 4 55.1	2.097	2.999	9.3	19.7	11 17	2 18.97	+25 51.9	1.391	2.352	7.4	18.4
11 27	2 14.32	- 4 30.0	2.156	2.991	11.9	19.9	11 27	2 10.61	+24 49.1	1.428	2.345	11.4	18.6
12 7	2 8.92	- 3 47.2	2.237	2.983	14.3	20.0	12 7	2 5.16	+23 48.6	1.489	2.339	15.3	18.9
<b>178524</b>	1999 <i>TC</i> <sub>230</sub>	11	3.1 35°13	2°7/ 1.9	18		<b>400403</b>	2008 <i>BJ</i> <sub>3</sub>	11	3.1 229°71	4°0/ 6.4	18	
9 28	3 3.09	+ 9 49.1	1.057	1.925	20.2	18.8	9 28	3 0.74	+28 46.0	2.299	3.072	13.8	21.5
10 8	2 58.48	+ 9 45.9	1.013	1.940	15.3	18.5	10 8	2 55.58	+28 56.2	2.203	3.063	11.2	21.3
10 18	2 50.46	+ 9 38.1	0.987	1.956	9.7	18.3	10 18	2 48.25	+28 51.1	2.129	3.054	8.3	21.1
10 28	2 40.18	+ 9 29.9	0.984	1.972	4.1	18.0	10 28	2 39.35	+28 29.3	2.081	3.045	5.4	21.0
11 7	2 29.32	+ 9 26.5	1.004	1.990	4.1	18.1	11 7	2 29.80	+27 51.9	2.060	3.036	4.0	20.8
11 17	2 19.61	+ 9 32.5	1.049	2.009	9.4	18.4	11 17	2 20.60	+27 2.3	2.069	3.026	5.7	20.9
11 27	2 12.45	+ 9 51.1	1.117	2.028	14.4	18.8	11 27	2 12.75	+26 6.1	2.107	3.016	8.7	21.1
12 7	2 8.61	+10 23.7	1.204	2.048	18.6	19.1	12 7	2 6.97	+25 9.8	2.170	3.005	11.7	21.3
<b>519853</b>	2013 <i>MP</i> <sub>13</sub>	11	3.1 230°55	1°9/ 4.9	17		<b>401637</b>	2013 <i>GY</i> <sub>83</sub>	11	3.1 222°55	1°0/ 2.2	18	
9 28	2 56.27	+23 48.3	2.588	3.382	11.9	21.2	9 28	2 57.87	+14 28.5	2.283	3.108	12.3	21.6
10 8	2 51.79	+23 29.9	2.497	3.378	9.3	21.0	10 8	2 53.13	+13 51.9	2.196	3.101	9.3	21.4
10 18	2 45.61	+22 59.4	2.429	3.373	6.4	20.9	10 18	2 46.53	+13 7.2	2.133	3.094	5.9	21.2
10 28	2 38.27	+22 17.4	2.388	3.368	3.3	20.7	10 28	2 38.65	+12 17.4	2.098	3.086	2.3	20.9
11 7	2 30.49	+21 26.7	2.377	3.363	2.0	20.6	11 7	2 30.28	+11 26.4	2.092	3.079	2.1	20.9
11 17	2 23.05	+20 31.0	2.395	3.357	4.6	20.7	11 17	2 22.27	+10 38.9	2.116	3.071	5.8	21.1
11 27	2 16.70	+19 35.4	2.443	3.352	7.7	20.9	11 27	2 15.45	+ 9 59.6	2.168	3.062	9.3	21.3
12 7	2 12.00	+18 44.4	2.516	3.346	10.5	21.1	12 7	2 10.42	+ 9 31.7	2.245	3.053	12.3	21.5
<b>232924</b>	2005 <i>AB</i> <sub>30</sub>	11	3.1 334°98	6°4/31.5	18		<b>226428</b>	2003 <i>SC</i> <sub>22</sub>	11	3.1 302°17	4°3/ 6		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>395115</b>	2009 <i>VW</i> <sub>96</sub>	11	3.1 266°62	0°5/ 3.9 18			<b>230210</b>	2001 <i>TK</i> <sub>2</sub>	11	3.1 7°76	1°6/ 3.9 18		
9 28	2 49.68	+19 22.1	4.480	5.279	7.1	21.8	9 28	2 56.00	+19 42.3	1.082	1.943	20.3	20.1
10 8	2 46.15	+19 7.8	4.389	5.277	5.5	21.7	10 8	2 53.46	+19 42.8	1.023	1.944	15.8	19.9
10 18	2 41.73	+18 48.2	4.324	5.275	3.6	21.5	10 18	2 47.54	+19 25.3	0.982	1.946	10.5	19.6
10 28	2 36.73	+18 24.2	4.288	5.273	1.6	21.4	10 28	2 39.21	+18 51.5	0.963	1.950	4.6	19.3
11 7	2 31.53	+17 57.4	4.283	5.271	0.9	21.3	11 7	2 30.02	+18 6.7	0.966	1.956	2.5	19.2
11 17	2 26.49	+17 29.5	4.309	5.269	2.8	21.5	11 17	2 21.68	+17 18.9	0.994	1.962	8.1	19.5
11 27	2 22.01	+17 2.5	4.364	5.268	4.8	21.6	11 27	2 15.70	+16 37.4	1.043	1.971	13.5	19.8
12 7	2 18.38	+16 38.5	4.448	5.266	6.5	21.7	12 7	2 12.98	+16 9.1	1.113	1.980	18.1	20.2
<b>3057</b>	Mälaren	11	3.1 203°20	3°0/ 1.4 18			<b>435232</b>	2007 <i>RW</i> <sub>314</sub>	11	3.1 50°15	0°0/ 2.9 18		
9 28	3 3.95	+ 9 4.9	1.584	2.425	16.0	17.3	9 28	3 0.94	+18 19.3	1.382	2.222	17.9	20.9
10 8	2 58.45	+ 8 40.3	1.510	2.423	12.2	17.0	10 8	2 56.08	+17 40.0	1.340	2.251	13.6	20.7
10 18	2 50.25	+ 8 11.2	1.458	2.421	7.9	16.8	10 18	2 48.55	+16 46.6	1.318	2.280	8.6	20.5
10 28	2 40.15	+ 7 41.9	1.432	2.418	3.8	16.5	10 28	2 39.40	+15 43.3	1.320	2.309	3.3	20.2
11 7	2 29.33	+ 7 17.6	1.433	2.415	4.2	16.6	11 7	2 29.97	+14 37.1	1.350	2.339	2.1	20.2
11 17	2 19.09	+ 7 3.0	1.462	2.411	8.4	16.8	11 17	2 21.56	+13 35.6	1.406	2.368	7.1	20.6
11 27	2 10.67	+ 7 2.2	1.516	2.407	12.7	17.1	11 27	2 15.23	+12 45.8	1.487	2.398	11.5	21.0
12 7	2 4.86	+ 7 16.8	1.592	2.403	16.4	17.3	12 7	2 11.55	+12 11.9	1.591	2.428	15.2	21.3
<b>267643</b>	2002 <i>SS</i> <sub>66</sub>	11	3.1 343°50	8°8/29.1 18			<b>480279</b>	2015 <i>HJ</i> <sub>99</sub>	11	3.1 343°36	2°3/ 1.8 18		
9 28	2 51.93	+ 2 26.0	0.987	1.878	19.3	19.5	9 28	2 55.68	+13 4.3	1.122	1.994	19.0	20.4
10 8	2 50.48	+ 0 59.2	0.926	1.863	15.2	19.2	10 8	2 53.14	+12 29.1	1.054	1.983	14.6	20.1
10 18	2 45.73	- 0 29.5	0.883	1.848	11.1	19.0	10 18	2 47.35	+11 41.8	1.004	1.974	9.3	19.8
10 28	2 38.53	- 1 47.2	0.861	1.836	8.8	18.8	10 28	2 39.17	+10 47.7	0.976	1.966	3.8	19.5
11 7	2 30.35	- 2 40.9	0.861	1.825	10.4	18.8	11 7	2 30.01	+ 9 54.9	0.972	1.959	4.0	19.5
11 17	2 22.83	- 3 1.5	0.881	1.816	14.5	19.0	11 17	2 21.51	+ 9 11.9	0.992	1.953	9.6	19.8
11 27	2 17.53	- 2 45.2	0.920	1.809	19.1	19.3	11 27	2 15.19	+ 8 46.5	1.034	1.948	15.0	20.1
12 7	2 15.42	- 1 54.8	0.975	1.804	23.1	19.5	12 7	2 12.02	+ 8 42.4	1.094	1.945	19.6	20.3
<b>440892</b>	2006 <i>UE</i> <sub>114</sub>	11	3.1 78°59	2°0/ 4.3 18			<b>174282</b>	2002 <i>SA</i> <sub>32</sub>	11	3.1 28°60	4°0/31.3 18		
9 28	3 5.60	+20 12.1	1.908	2.714	15.0	21.2	9 28	2 57.83	+ 7 15.5	1.708	2.558	14.6	20.0
10 8	2 59.20	+20 39.8	1.847	2.736	11.7	21.0	10 8	2 53.50	+ 6 22.8	1.643	2.560	11.1	19.8
10 18	2 50.44	+20 56.8	1.809	2.758	7.8	20.8	10 18	2 46.93	+ 5 26.7	1.601	2.563	7.3	19.6
10 28	2 40.13	+21 2.5	1.798	2.781	3.8	20.7	10 28	2 38.84	+ 4 32.8	1.584	2.566	4.3	19.4
11 7	2 29.38	+20 58.7	1.816	2.803	2.3	20.6	11 7	2 30.26	+ 3 47.6	1.595	2.570	5.1	19.5
11 17	2 19.32	+20 48.2	1.863	2.824	5.8	20.9	11 17	2 22.25	+ 3 16.2	1.633	2.573	8.6	19.7
11 27	2 10.97	+20 35.9	1.938	2.846	9.4	21.1	11 27	2 15.79	+ 3 2.3	1.696	2.577	12.2	19.9
12 7	2 4.99	+20 26.1	2.037	2.867	12.6	21.4	12 7	2 11.54	+ 3 6.9	1.781	2.581	15.4	20.2
<b>294229</b>	2007 <i>UZ</i> <sub>25</sub>	11	3.1 316°10	1°3/ 2.5 17			<b>311574</b>	2006 <i>GT</i> <sub>12</sub>	11	3.1 222°75	1°4/ 2.3 17		
9 28	3 3.69	+12 12.9	1.252	2.105	18.6	20.2	9 28	3 3.79	+13 31.1	1.472	2.313	17.0	21.3
10 8	2 59.07	+12 18.8	1.178	2.097	14.3	19.9	10 8	2 58.64	+13 8.9	1.395	2.308	13.0	21.0
10 18	2 51.09	+12 18.1	1.124	2.090	9.2	19.6	10 18	2 50.55	+12 37.1	1.340	2.303	8.3	20.7
10 28	2 40.59	+12 13.2	1.094	2.083	3.6	19.2	10 28	2 40.33	+11 59.1	1.309	2.297	3.2	20.4
11 7	2 29.01	+12 8.0	1.088	2.076	3.0	19.2	11 7	2 29.27	+11 20.2	1.305	2.291	3.0	20.4
11 17	2 18.05	+12 7.1	1.108	2.069	8.8	19.5	11 17	2 18.81	+10 46.5	1.328	2.285	8.1	20.7
11 27	2 9.30	+12 15.4	1.152	2.063	14.1	19.8	11 27	2 10.28	+10 24.0	1.376	2.279	12.9	20.9
12 7	2 3.79	+12 36.2	1.216	2.057	18.6	20.0	12 7	2 4.59	+10 16.6	1.446	2.272	17.0	21.2
<b>43783</b>	Svyatitel'pyotr	11	3.1 7°00	1°7/ 4.5 18			<b>81585</b>	2000 <i>HW</i> <sub>47</sub>	11	3.1 308°17	0°8/ 2.5 18		
9 28	2 47.52	+26 12.2	1.057	1.914	21.0	16.8	9 28	2 55.36	+18 6.5	1.703	2.540	15.2	18.6
10 8	2 46.98	+24 49.6	0.998	1.916	16.5	16.5	10 8	2 51.94	+17 0.5	1.613	2.524	11.7	18.4
10 18	2 43.31	+22 53.2	0.958	1.920	11.0	16.2	10 18	2 46.14	+15 37.6	1.544	2.507	7.5	18.1
10 28	2 37.52	+20 29.1	0.939	1.926	5.1	15.9	10 28	2 38.61	+14 2.1	1.502	2.491	2.8	17.8
11 7	2 31.08	+17 50.4	0.945	1.934	2.4	15.8	11 7	2 30.38	+12 21.0	1.487	2.475	2.4	17.7
11 17	2 25.51	+15 14.2	0.974	1.945	8.0	16.1	11 17	2 22.57	+10 43.3	1.500	2.459	7.2	18.0
11 27	2 22.10	+12 56.9	1.028	1.957	13.4	16.5	11 27	2 16.29	+ 9 17.9	1.540	2.444	11.7	18.2
12 7	2 21.54	+11 9.2	1.102	1.972	18.1	16.8	12 7	2 12.30	+ 8 11.3	1.603	2.429	15.6	18.4
<b>41223</b>	1999 <i>XD</i> <sub>16</sub>	11	3.1 17°36	3°0/ 3.8 18 R			<b>218778</b>	2005 <i>XL</i> <sub>15</sub>	11	3.1 112°17	0°5/ 3.5 18		
9 28	3 4.23	+14 39.3	0.826	1.703	23.6	15.5	9 28	2 57.97	+18 54.1	2.293	3.107	12.6	21.2
10 8	3 0.13	+16 33.8	0.794	1.722	18.1	15.2	10 8	2 53.12	+18 29.3	2.221	3.117	9.6	21.0
10 18	2 51.87	+18 19.3	0.778	1.745	12.0	15.0	10 18	2 46.47	+17 54.4	2.171	3.127	6.2	20.8
10 28	2 40.80	+19 50.2	0.783	1.770	5.6	14.8	10 28	2 38.62	+17 11.3	2.150	3.136	2.5	20.6
11 7	2 29.03	+21 3.1	0.810	1.798	3.7	14.8	11 7	2 30.41	+16 23.7	2.157	3.146	1.4	20.5
11 17	2 18.73	+21 58.6	0.860	1.829	9.0	15.2	11 17	2 22.67	+15 35.8	2.194	3.155	5.1	20.8
11 27	2 11.65	+22 42.0	0.931	1.861	14.4	15.6	11 27	2 16.18	+14 52.3	2.260	3.164	8.5	21.1
12 7	2 8.58	+23 19.8	1.021	1.896	18.7	16.0	12 7	2 11.50	+14 17.3	2.351	3.173	11.4	21.3
<b>274295</b>	2008 <i>QN</i> <sub>18</sub>	11	3.1 343°20	0°3/ 2.8 18			<b>406249</b>	2007 <i>DG</i> <sub>32</sub>	11	3.1 183°84	3°6/ 6.3 17		
9 28	2 55.51	+15 54.8	1.910	2.745	13.9	20.7	9 28	3 0.58	+28 2.4	2.606	3.374	12.5	22.1
10 8	2 51.73	+15 35.1	1.829	2.738	10.6	20.5	10 8	2 55.15	+28 20.0	2.517	3.374	10.1	21.9
10 18	2 45.83	+15 6.1	1.770	2.732	6.8	20.2	10 18	2 47.83	+28 24.7	2.450	3.374	7.4	21.7
10 28	2 38.44	+14 30.2	1.737	2.725	2.6	20.0	10 28	2 39.19	+28 15.5	2.410	3.374	4.8	21.6
11 7	2 30.47	+13 51.4	1.731	2.720	1.9	19.9	11 7	2 30.02	+27 53.2	2.398	3.373	3.6	21.5
11 17	2 22.91	+13 14.3	1.754	2.715	6.1	20.2	11 17	2 21.20	+27 20.4	2.417	3.372	5.2	21.6
11 27	2 16.71	+12 44.1	1.804	2.711	10.1	20.4	11 27	2 13.56	+26 41.5	2.464	3.370	7.8	21.8
12 7	2 12.56	+12 24.5	1.876	2.707	13.5	20.6	12 7	2 7.74	+26 1.6	2.538	3.368	10.4	21.9
<b>459458</b>	2012 <i>XR</i> <sub>134</sub>	11	3.1 214°26	0°2/ 2.9 16			<b>39884</b>	1998 <i>ET</i> <sub>11</sub>	11	3.1 64°39	1°9/ 4.0 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$		
<b>409122</b>	2003 <i>UJ</i> <sub>6</sub>		11	3.1	315°07	6°9/10.0	17	<b>442456</b>	2011 <i>UY</i> <sub>246</sub>		11	3.1	333°17	1°9/ 1.9	18
9 28	2 57.43	+38 54.1	2.132	2.863	15.9	20.0	9 28	3 1.33	+10 13.0	1.850	2.686	14.2	20.4		
10 8	2 53.49	+38 51.0	2.030	2.848	13.7	19.8	10 8	2 56.14	+10 9.1	1.774	2.684	10.8	20.2		
10 18	2 47.10	+38 23.6	1.947	2.833	11.2	19.6	10 18	2 48.66	+10 1.5	1.720	2.682	6.9	19.9		
10 28	2 38.97	+37 29.0	1.887	2.818	8.6	19.4	10 28	2 39.56	+9 52.9	1.693	2.681	2.9	19.7		
11 7	2 30.16	+36 7.8	1.853	2.804	7.0	19.3	11 7	2 29.85	+9 46.6	1.694	2.679	3.0	19.7		
11 17	2 21.82	+34 24.3	1.847	2.790	7.5	19.3	11 17	2 20.62	+9 45.7	1.724	2.678	6.9	19.9		
11 27	2 15.08	+32 27.0	1.868	2.776	9.7	19.4	11 27	2 12.89	+9 53.5	1.780	2.676	10.8	20.2		
12 7	2 10.68	+30 26.1	1.915	2.763	12.5	19.6	12 7	2 7.39	+10 11.7	1.860	2.675	14.2	20.4		
<b>294946</b>	2008 <i>DL</i> <sub>68</sub>		11	3.1	207°76	1°6/ 1.9	17	<b>207738</b>	2007 <i>RD</i> <sub>226</sub>		11	3.1	148°16	1°7/ 4.1	17
9 28	3 2.05	+13 29.8	1.805	2.636	14.7	22.1	9 28	3 5.54	+21 0.1	1.545	2.364	17.4	21.6		
10 8	2 56.78	+12 51.7	1.723	2.631	11.2	21.9	10 8	2 59.82	+20 52.0	1.475	2.371	13.6	21.4		
10 18	2 49.10	+12 4.4	1.664	2.626	7.1	21.6	10 18	2 51.19	+20 28.4	1.425	2.378	9.0	21.2		
10 28	2 39.72	+11 11.6	1.632	2.620	2.9	21.4	10 28	2 40.56	+19 50.0	1.400	2.385	4.1	20.9		
11 7	2 29.70	+10 18.7	1.628	2.614	2.9	21.3	11 7	2 29.24	+19 0.9	1.402	2.391	2.3	20.8		
11 17	2 20.18	+9 31.4	1.653	2.607	7.2	21.6	11 17	2 18.67	+18 7.2	1.432	2.396	6.9	21.1		
11 27	2 12.22	+8 55.3	1.705	2.599	11.4	21.8	11 27	2 10.14	+17 16.8	1.489	2.401	11.5	21.4		
12 7	2 6.59	+8 34.1	1.780	2.591	15.0	22.1	12 7	2 4.45	+16 36.5	1.569	2.405	15.4	21.6		
<b>403502</b>	2009 <i>VZ</i> <sub>36</sub>		11	3.1	15°63	1°0/ 3.7	16	<b>514026</b>	2014 <i>KE</i> <sub>34</sub>		11	3.1	195°74	6°9/27.9	18
9 28	2 55.49	+18 26.2	1.398	2.247	17.3	20.3	9 28	2 57.32	- 1 14.6	1.985	2.828	13.1	21.7		
10 8	2 52.24	+18 24.5	1.343	2.257	13.3	20.1	10 8	2 52.83	- 2 45.5	1.922	2.827	10.4	21.5		
10 18	2 46.35	+18 9.7	1.307	2.270	8.6	19.9	10 18	2 46.39	- 4 13.8	1.883	2.826	8.0	21.4		
10 28	2 38.66	+17 43.9	1.296	2.283	3.6	19.6	10 28	2 38.65	- 5 32.0	1.870	2.825	6.9	21.3		
11 7	2 30.43	+17 11.3	1.309	2.298	2.0	19.5	11 7	2 30.46	- 6 33.0	1.885	2.823	8.0	21.4		
11 17	2 22.94	+16 37.7	1.349	2.315	6.8	19.9	11 17	2 22.75	- 7 11.9	1.927	2.821	10.4	21.5		
11 27	2 17.33	+16 9.4	1.413	2.333	11.3	20.2	11 27	2 16.37	- 7 26.6	1.993	2.819	13.1	21.7		
12 7	2 14.29	+15 51.3	1.499	2.352	15.1	20.5	12 7	2 11.91	- 7 17.8	2.079	2.817	15.5	21.9		
<b>229448</b>	2005 <i>UW</i> <sub>97</sub>		11	3.1	212°80	2°3/ 1.6	18	<b>65506</b>	4102 <i>P-L</i>		11	3.1	351°22	3°7/ 4.9	18
9 28	3 3.52	+9 37.6	1.950	2.780	13.9	21.2	9 28	2 57.52	+22 40.2	1.156	2.004	20.2	19.0		
10 8	2 57.73	+9 20.4	1.867	2.774	10.6	20.9	10 8	2 54.76	+23 9.1	1.086	1.996	16.1	18.8		
10 18	2 49.65	+8 59.2	1.807	2.767	6.8	20.7	10 18	2 48.54	+23 19.7	1.034	1.990	11.2	18.5		
10 28	2 39.94	+8 37.1	1.774	2.760	3.1	20.5	10 28	2 39.70	+23 10.5	1.003	1.985	6.1	18.2		
11 7	2 29.57	+8 18.0	1.770	2.753	3.3	20.5	11 7	2 29.75	+22 43.5	0.994	1.981	4.0	18.0		
11 17	2 19.64	+8 5.8	1.795	2.744	7.1	20.7	11 17	2 20.45	+22 4.4	1.010	1.978	8.2	18.3		
11 27	2 11.17	+8 3.8	1.848	2.736	11.0	20.9	11 27	2 13.49	+21 22.6	1.049	1.977	13.3	18.6		
12 7	2 4.90	+8 14.0	1.924	2.727	14.3	21.1	12 7	2 9.90	+20 47.2	1.108	1.977	18.0	18.8		
<b>227160</b>	2005 <i>QP</i> <sub>13</sub>		11	3.1	36°26	4°1/31.6	18	<b>229205</b>	2004 <i>VN</i> <sub>24</sub>		11	3.1	335°29	3°1/ 5.3	17
9 28	2 58.58	+9 31.6	1.250	2.115	17.9	20.1	9 28	2 56.68	+24 15.3	1.798	2.612	15.5	20.2		
10 8	2 54.69	+8 28.8	1.199	2.124	13.5	19.9	10 8	2 53.00	+24 24.9	1.710	2.600	12.4	20.0		
10 18	2 47.93	+7 19.2	1.167	2.134	8.7	19.7	10 18	2 46.87	+24 19.3	1.642	2.588	8.7	19.7		
10 28	2 39.27	+6 10.4	1.159	2.145	4.6	19.5	10 28	2 38.94	+23 57.9	1.599	2.577	4.9	19.5		
11 7	2 30.07	+5 11.2	1.177	2.156	5.5	19.6	11 7	2 30.24	+23 22.8	1.583	2.567	3.2	19.4		
11 17	2 21.74	+4 29.1	1.219	2.167	9.9	19.9	11 17	2 21.93	+22 38.3	1.594	2.558	6.2	19.5		
11 27	2 15.48	+4 8.9	1.285	2.180	14.3	20.1	11 27	2 15.15	+21 50.9	1.631	2.549	10.2	19.7		
12 7	2 12.02	+4 11.5	1.370	2.192	18.0	20.4	12 7	2 10.72	+21 7.4	1.692	2.541	13.8	20.0		
<b>308892</b>	2006 <i>SC</i> <sub>162</sub>		11	3.1	136°59	1°0/ 2.3	18	<b>217705</b>	1999 <i>TG</i> <sub>184</sub>		11	3.1	38°66	6°4/ 8.7	18
9 28	2 58.54	+14 22.2	1.972	2.804	13.7	21.1	9 28	2 59.39	+34 27.0	1.727	2.497	17.8	19.6		
10 8	2 53.86	+13 50.4	1.898	2.806	10.4	20.9	10 8	2 55.04	+34 38.9	1.666	2.515	14.8	19.4		
10 18	2 47.09	+13 10.3	1.846	2.808	6.6	20.7	10 18	2 48.05	+34 26.7	1.623	2.534	11.5	19.3		
10 28	2 38.92	+12 25.0	1.821	2.810	2.5	20.4	10 28	2 39.31	+33 48.6	1.604	2.553	8.3	19.1		
11 7	2 30.26	+11 38.9	1.825	2.812	2.3	20.4	11 7	2 30.08	+32 46.9	1.609	2.573	6.5	19.1		
11 17	2 22.09	+10 57.1	1.857	2.813	6.3	20.7	11 17	2 21.66	+31 27.5	1.642	2.594	7.4	19.2		
11 27	2 15.31	+10 24.3	1.917	2.815	10.1	20.9	11 27	2 15.15	+29 59.5	1.700	2.615	10.1	19.4		
12 7	2 10.58	+10 3.8	2.000	2.817	13.3	21.1	12 7	2 11.25	+28 32.5	1.783	2.636	13.1	19.6		
<b>259851</b>	2004 <i>CZ</i> <sub>79</sub>		11	3.1	253°77	5°4/29.9	18	<b>325800</b>	2010 <i>RC</i> <sub>81</sub>		11	3.1	346°82	4°4/31.6	18
9 28	2 57.98	+2 8.1	1.986	2.829	13.1	20.6	9 28	2 54.05	+10 40.0	0.994	1.878	19.9	19.9		
10 8	2 53.40	+1 8.4	1.912	2.822	10.2	20.4	10 8	2 52.14	+9 35.8	0.932	1.869	15.2	19.5		
10 18	2 46.80	+0 9.1	1.861	2.815	7.3	20.2	10 18	2 46.82	+8 19.5	0.889	1.860	9.8	19.2		
10 28	2 38.82	- 0 43.9	1.838	2.807	5.5	20.1	10 28	2 39.01	+6 59.9	0.866	1.853	5.0	18.9		
11 7	2 30.32	- 1 24.6	1.842	2.800	6.4	20.2	11 7	2 30.22	+5 48.6	0.866	1.848	6.1	19.0		
11 17	2 22.24	- 1 48.5	1.873	2.792	9.1	20.3	11 17	2 22.19	+4 56.3	0.888	1.844	11.4	19.3		
11 27	2 15.48	- 1 53.0	1.930	2.785	12.2	20.5	11 27	2 16.47	+4 30.7	0.931	1.841	16.8	19.6		
12 7	2 10.68	- 1 38.0	2.008	2.777	15.0	20.7	12 7	2 14.04	+4 33.8	0.991	1.839	21.4	19.8		
<b>350475</b>	1999 <i>RO</i> <sub>70</sub>		11	3.1	46°36	2°6/ 4.8	18	<b>120222</b>	2004 <i>FD</i> <sub>23</sub>		11	3.1	47°85	0°7/ 3.5	18
9 28	3 0.71	+23 21.0	1.386	2.214	18.6	19.5	9 28	3 2.37	+18 22.4	1.222	2.068	19.4	19.5		
10 8	2 56.19	+23 11.4	1.335	2.234	14.5	19.3	10 8	2 57.68	+18 13.3	1.174	2.087	14.9	19.3		
10 18	2 48.82	+22 42.9	1.302	2.255	9.8	19.1	10 18	2 49.87	+17 49.4	1.145	2.107	9.6	19.0		
10 28	2 39.59	+21 56.9	1.294	2.276	4.9	18.9	10 28	2 40.02	+17 13.1	1.139	2.127	3.9	18.8		
11 7	2 29.90	+20 58.5	1.310	2.298	2.8	18.8	11 7	2 29.66	+16 29.9	1.159	2.148	2.2	18.7		
11 17	2 21.15	+19 55.1	1.354	2.320	6.8	19.1	11 17	2 20.36	+15 47.0	1.204	2.169	7.6	19.1		
11 27	2 14.53	+18 55.4	1.423	2.342	11.3	19.4	11 27	2 13.39	+15 11.9	1.273	2.190	12.5	19.5		
12 7	2 10.72	+18 6.5	1.514	2.365	15.1	19.7	12 7	2 9.49	+14 49.8	1.364	2.212	16.6	19.8		
<b>172321</b>	2002 <i>UY</i> <sub>5</sub>		11	3.1	39°55	3°6/31.8	18	<b></b>							

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>411125</b>	2009 WQ <sub>190</sub>	11	3.1 321°57	0°4/ 2.8 17			<b>359025</b>	2008 VM <sub>16</sub>	11	3.1 329°77	0°4/ 2.5 18		
9 28	2 55.76	+15 40.4	2.003	2.836	13.4	21.8	9 28	2 50.31	+13 40.9	4.416	5.230	7.0	21.6
10 8	2 51.90	+15 18.6	1.914	2.823	10.3	21.5	10 8	2 46.64	+13 29.2	4.330	5.230	5.2	21.5
10 18	2 45.96	+14 47.7	1.848	2.810	6.6	21.3	10 18	2 42.09	+13 14.4	4.270	5.229	3.3	21.4
10 28	2 38.55	+14 9.9	1.808	2.797	2.5	21.0	10 28	2 36.96	+12 57.6	4.240	5.228	1.3	21.2
11 7	2 30.52	+13 29.3	1.796	2.785	1.9	20.9	11 7	2 31.63	+12 40.5	4.241	5.228	1.1	21.2
11 17	2 22.83	+12 50.5	1.813	2.773	6.1	21.2	11 17	2 26.47	+12 24.6	4.272	5.227	3.1	21.4
11 27	2 16.42	+12 18.4	1.856	2.761	10.0	21.4	11 27	2 21.84	+12 11.6	4.333	5.227	5.0	21.5
12 7	2 12.00	+11 57.0	1.923	2.750	13.4	21.6	12 7	2 18.07	+12 2.9	4.422	5.226	6.8	21.6
<b>189502</b>	2000 AZ <sub>217</sub>	11	3.1 115°67	3°1/ 5.9 18			<b>112650</b>	2002 PF <sub>84</sub>	11	3.1 64°63	7°5/ 8.3 18		
9 28	2 58.08	+26 57.5	2.390	3.173	13.0	20.2	9 28	3 5.29	+34 14.9	1.768	2.526	17.8	19.2
10 8	2 53.33	+26 52.5	2.309	3.178	10.4	20.0	10 8	2 59.76	+35 10.6	1.699	2.539	15.0	19.0
10 18	2 46.69	+26 33.1	2.250	3.183	7.5	19.8	10 18	2 51.26	+35 45.1	1.651	2.552	11.9	18.8
10 28	2 38.77	+25 59.4	2.217	3.189	4.5	19.6	10 28	2 40.66	+35 54.2	1.625	2.565	9.0	18.7
11 7	2 30.42	+25 13.7	2.213	3.194	3.1	19.6	11 7	2 29.28	+35 36.9	1.624	2.578	7.5	18.7
11 17	2 22.50	+24 19.7	2.238	3.198	5.0	19.7	11 17	2 18.59	+34 56.6	1.650	2.592	8.4	18.7
11 27	2 15.85	+23 22.9	2.292	3.203	8.0	19.9	11 27	2 9.94	+34 1.0	1.702	2.605	10.8	18.9
12 7	2 11.06	+22 29.0	2.372	3.208	10.8	20.1	12 7	2 4.18	+32 59.5	1.777	2.618	13.7	19.1
<b>213976</b>	2003 YS <sub>144</sub>	11	3.1 19°48	3°8/ 5.3 18			<b>37077</b>	2000 UK <sub>55</sub>	11	3.1 351°05	4°9/ 31.5 18		
9 28	3 2.91	+23 45.4	1.660	2.470	16.8	20.1	9 28	3 1.53	+ 4 13.3	1.529	2.380	16.0	18.1
10 8	2 57.87	+24 24.8	1.586	2.473	13.4	19.8	10 8	2 56.66	+ 3 47.4	1.462	2.378	12.3	17.8
10 18	2 50.03	+24 50.2	1.532	2.475	9.4	19.6	10 18	2 49.15	+ 3 22.3	1.416	2.376	8.3	17.6
10 28	2 40.18	+24 59.8	1.502	2.478	5.5	19.4	10 28	2 39.82	+ 3 3.3	1.395	2.375	5.2	17.4
11 7	2 29.51	+24 54.0	1.500	2.482	3.9	19.3	11 7	2 29.82	+ 2 55.7	1.401	2.374	5.9	17.5
11 17	2 19.40	+24 36.1	1.524	2.486	6.8	19.5	11 17	2 20.43	+ 3 3.3	1.433	2.373	9.5	17.7
11 27	2 11.13	+24 12.1	1.575	2.490	10.7	19.7	11 27	2 12.82	+ 3 28.1	1.489	2.373	13.4	17.9
12 7	2 5.56	+23 48.8	1.649	2.494	14.3	20.0	12 7	2 7.77	+ 4 9.9	1.567	2.373	16.9	18.1
<b>44837</b>	1999 TM <sub>270</sub>	11	3.1 121°31	4°6/ 6.8 18			<b>259475</b>	2003 SR <sub>173</sub>	11	3.1 85°61	1°0/ 3.9 18		
9 28	3 2.24	+29 49.9	1.932	2.710	15.9	18.9	9 28	2 57.41	+20 26.0	2.306	3.115	12.6	20.5
10 8	2 56.96	+29 56.0	1.857	2.718	12.9	18.7	10 8	2 52.72	+20 4.2	2.234	3.127	9.7	20.4
10 18	2 49.22	+29 43.1	1.802	2.727	9.6	18.5	10 18	2 46.25	+19 31.4	2.186	3.139	6.4	20.2
10 28	2 39.79	+29 10.1	1.771	2.735	6.3	18.3	10 28	2 38.61	+18 49.5	2.166	3.151	2.8	20.0
11 7	2 29.80	+28 18.7	1.768	2.743	4.6	18.2	11 7	2 30.62	+18 1.6	2.174	3.163	1.5	19.9
11 17	2 20.43	+27 14.0	1.794	2.751	6.4	18.4	11 17	2 23.09	+17 12.3	2.212	3.174	4.9	20.1
11 27	2 12.76	+26 3.5	1.846	2.759	9.6	18.6	11 27	2 16.82	+16 26.2	2.278	3.186	8.2	20.4
12 7	2 7.52	+24 55.1	1.924	2.766	12.7	18.8	12 7	2 12.33	+15 47.6	2.370	3.197	11.2	20.6
<b>223146</b>	2002 WG <sub>10</sub>	11	3.1 6°76	4°3/ 31.9 18			<b>156711</b>	2002 NB <sub>46</sub>	11	3.1 68°58	3°8/ 30.9 18		
9 28	2 53.61	+ 9 30.8	0.936	1.825	20.3	19.4	9 28	2 56.58	+ 5 12.0	2.218	3.058	12.0	20.1
10 8	2 51.78	+ 8 47.2	0.887	1.825	15.5	19.1	10 8	2 52.05	+ 4 26.6	2.156	3.067	9.1	19.9
10 18	2 46.52	+ 7 56.1	0.855	1.827	10.0	18.8	10 18	2 45.80	+ 3 40.5	2.119	3.077	6.1	19.7
10 28	2 38.86	+ 7 5.6	0.844	1.831	5.0	18.6	10 28	2 38.43	+ 2 58.1	2.109	3.086	3.9	19.6
11 7	2 30.41	+ 6 25.4	0.854	1.837	5.8	18.6	11 7	2 30.74	+ 2 24.0	2.127	3.096	4.6	19.7
11 17	2 22.88	+ 6 3.3	0.887	1.845	11.0	19.0	11 17	2 23.51	+ 2 1.7	2.174	3.106	7.3	19.9
11 27	2 17.77	+ 6 4.4	0.940	1.855	16.1	19.3	11 27	2 17.48	+ 1 53.6	2.247	3.115	10.2	20.1
12 7	2 15.90	+ 6 29.0	1.011	1.866	20.5	19.6	12 7	2 13.17	+ 2 0.4	2.344	3.125	12.7	20.3
<b>1351</b>	Uzbekistania	11	3.1 332°24	2°6/ 5.1 18			<b>1467</b>	Mashona	11	3.1 76°81	8°6/ 12.6 18		
9 28	2 59.27	+23 6.4	2.218	3.018	13.4	14.8	9 28	3 4.09	+45 29.6	2.644	3.304	14.7	14.1
10 8	2 54.45	+23 26.6	2.131	3.014	10.6	14.6	10 8	2 58.34	+46 23.9	2.568	3.316	13.0	14.0
10 18	2 47.55	+23 35.7	2.067	3.010	7.4	14.4	10 18	2 50.13	+46 58.0	2.510	3.328	11.3	13.9
10 28	2 39.17	+23 33.0	2.029	3.007	4.1	14.2	10 28	2 40.20	+47 7.7	2.474	3.340	9.7	13.8
11 7	2 30.17	+23 19.7	2.019	3.003	2.7	14.1	11 7	2 29.60	+46 51.7	2.463	3.352	8.7	13.7
11 17	2 21.52	+22 58.7	2.039	3.000	5.3	14.3	11 17	2 19.49	+46 11.7	2.477	3.364	8.7	13.8
11 27	2 14.17	+22 34.3	2.086	2.997	8.7	14.5	11 27	2 11.00	+45 12.5	2.517	3.376	9.5	13.8
12 7	2 8.80	+22 11.3	2.158	2.994	11.8	14.7	12 7	2 4.86	+44 1.5	2.581	3.388	11.0	14.0
<b>440790</b>	2006 KP <sub>123</sub>	11	3.1 93°77	0°6/ 2.6 15			<b>2212</b>	Hephaistos	11	3.1 95°50	1°2/ 4.1 18		
9 28	3 0.23	+17 42.7	1.957	2.778	14.1	22.0	9 28	3 17.23	+21 25.2	2.443	3.205	13.3	19.1
10 8	2 54.92	+16 40.6	1.899	2.802	10.7	21.8	10 8	3 7.02	+21 5.8	2.392	3.258	10.2	19.0
10 18	2 47.62	+15 26.8	1.865	2.825	6.7	21.6	10 18	2 54.94	+20 34.4	2.367	3.308	6.7	18.8
10 28	2 39.09	+14 5.7	1.859	2.847	2.5	21.4	10 28	2 41.82	+19 52.3	2.374	3.357	3.0	18.7
11 7	2 30.31	+12 43.4	1.882	2.870	2.0	21.4	11 7	2 28.70	+19 2.7	2.415	3.403	1.6	18.7
11 17	2 22.22	+11 26.5	1.935	2.892	6.0	21.7	11 17	2 16.56	+18 10.4	2.491	3.447	4.9	19.0
11 27	2 15.67	+10 21.0	2.016	2.913	9.7	22.0	11 27	2 6.20	+17 20.6	2.599	3.489	8.1	19.2
12 7	2 11.17	+ 9 30.7	2.121	2.934	12.8	22.2	12 7	2 15.80	+16 37.6	2.735	3.529	10.8	19.5
<b>512146</b>	2015 PQ <sub>130</sub>	11	3.1 144°72	6°5/ 28.9 18			<b>389063</b>	2008 WY <sub>8</sub>	11	3.1 241°42	2°2/ 1.7 18		
9 28	2 59.25	- 1 5.1	1.982	2.821	13.3	21.2	9 28	3 0.99	+10 48.3	1.778	2.617	14.6	21.3
10 8	2 54.24	- 2 16.9	1.923	2.827	10.5	21.0	10 8	2 56.02	+10 23.2	1.700	2.612	11.1	21.0
10 18	2 47.26	- 3 25.3	1.888	2.833	7.9	20.9	10 18	2 48.67	+ 9 52.5	1.644	2.607	7.1	20.8
10 28	2 39.00	- 4 23.3	1.880	2.838	6.5	20.8	10 28	2 39.64	+ 9 19.6	1.614	2.601	3.1	20.5
11 7	2 30.35	- 5 5.1	1.900	2.843	7.5	20.9	11 7	2 29.97	+ 8 49.2	1.612	2.596	3.3	20.5
11 17	2 22.24	- 5 26.6	1.946	2.848	9.9	21.1	11 17	2 20.77	+ 8 26.1	1.638	2.590	7.4	20.8
11 27	2 15.51	- 5 26.3	2.017	2.853	12.6	21.2	11 27	2 13.11	+ 8 14.4	1.691	2.585	11.5	21.0
12 7	2 10.75	- 5 5.2	2.110	2.857	15.0	21.4	12 7	2 7.75	+ 8 16.6	1.766	2.579	15.0	21.2
<b>474658</b>	2004 YG <sub>17</sub>	11	3.1 0°95	1°7/ 4.1 16			<b>415119</b>	2012 DJ <sub>15</sub>	11	3.1 141°44	4°9/ 7.4 18		
9 28	2 55.03	+20 2.8	1.161	2.018	19.5	19.9	9 28	3					



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>488194</b>	2015 <i>XT</i> <sub>198</sub>	11	3.1 224°47	6°8/26.5	18		<b>405814</b>	2006 <i>BL</i> <sub>83</sub>	11	3.1 133°44	0°8/ 2.5	18	
9 28	2 55.19	- 6 32.7	2.630	3.458	10.7	21.8	9 28	2 57.78	+14 8.6	2.373	3.197	11.9	21.5
10 8	2 50.84	- 7 53.3	2.563	3.451	8.8	21.6	10 8	2 52.99	+13 47.4	2.297	3.201	9.0	21.3
10 18	2 45.00	- 9 8.5	2.522	3.445	7.3	21.5	10 18	2 46.45	+13 19.8	2.245	3.205	5.7	21.1
10 28	2 38.15	-10 12.4	2.508	3.438	6.8	21.5	10 28	2 38.76	+12 48.1	2.221	3.209	2.2	20.9
11 7	2 30.95	-11 0.1	2.522	3.430	7.7	21.5	11 7	2 30.67	+12 15.6	2.226	3.213	1.8	20.9
11 17	2 24.06	-11 28.3	2.562	3.423	9.4	21.6	11 17	2 22.97	+11 45.9	2.260	3.217	5.3	21.1
11 27	2 18.14	-11 35.4	2.627	3.415	11.4	21.8	11 27	2 16.43	+11 22.7	2.323	3.220	8.6	21.4
12 7	2 13.69	-11 22.5	2.713	3.407	13.2	21.9	12 7	2 11.60	+11 8.5	2.411	3.224	11.5	21.6
<b>35933</b>	1999 <i>JD</i> <sub>117</sub>	11	3.1 53°33	1°3/ 3.9	18		<b>264126</b>	2009 <i>TY</i> <sub>38</sub>	11	3.1 11°89	5°5/30.0	18	
9 28	3 1.34	+20 51.2	1.394	2.227	18.2	17.9	9 28	2 56.44	+ 1 34.9	1.933	2.781	13.2	19.7
10 8	2 56.57	+20 27.4	1.344	2.250	14.0	17.7	10 8	2 52.25	+ 0 42.8	1.870	2.782	10.3	19.5
10 18	2 49.03	+19 46.9	1.315	2.273	9.1	17.5	10 18	2 46.10	- 0 7.6	1.830	2.784	7.3	19.4
10 28	2 39.72	+18 52.5	1.310	2.296	4.0	17.3	10 28	2 38.64	- 0 50.3	1.817	2.787	5.5	19.3
11 7	2 30.02	+17 50.1	1.331	2.320	2.1	17.2	11 7	2 30.76	- 1 20.0	1.831	2.789	6.4	19.3
11 17	2 21.28	+16 47.3	1.379	2.344	6.9	17.6	11 17	2 23.36	- 1 32.9	1.871	2.792	9.0	19.5
11 27	2 14.64	+15 52.0	1.452	2.368	11.4	17.9	11 27	2 17.30	- 1 27.1	1.937	2.796	12.0	19.7
12 7	2 10.74	+15 10.2	1.548	2.392	15.2	18.2	12 7	2 13.16	- 1 2.9	2.024	2.800	14.7	19.9
<b>65924</b>	1998 <i>FE</i> <sub>53</sub>	11	3.1 176°94	1°7/ 4.3	18		<b>193438</b>	2000 <i>WF</i> <sub>123</sub>	11	3.1 339°26	4°2/ 1.2	18	
9 28	3 1.66	+21 2.6	1.867	2.679	15.1	19.4	9 28	2 59.70	+ 6 27.1	1.337	2.198	17.2	18.6
10 8	2 56.53	+20 58.9	1.787	2.680	11.8	19.2	10 8	2 55.78	+ 6 11.6	1.265	2.188	13.2	18.4
10 18	2 48.99	+20 42.2	1.729	2.681	7.9	19.0	10 18	2 48.91	+ 5 54.9	1.213	2.178	8.8	18.1
10 28	2 39.78	+20 13.2	1.697	2.681	3.7	18.7	10 28	2 39.87	+ 5 42.1	1.184	2.169	4.8	17.9
11 7	2 29.93	+19 34.7	1.693	2.681	2.1	18.6	11 7	2 29.94	+ 5 38.7	1.181	2.161	5.3	17.9
11 17	2 20.59	+18 51.4	1.718	2.681	6.0	18.9	11 17	2 20.56	+ 5 48.9	1.202	2.153	9.6	18.1
11 27	2 12.84	+18 9.5	1.770	2.681	10.0	19.1	11 27	2 13.10	+ 6 15.6	1.248	2.147	14.2	18.3
12 7	2 7.42	+17 34.6	1.847	2.681	13.5	19.4	12 7	2 8.48	+ 6 59.1	1.313	2.142	18.3	18.6
<b>369443</b>	2010 <i>BP</i>	11	3.1 335°22	5°0/ 7.2	17		<b>128310</b>	2004 <i>BM</i> <sub>114</sub>	11	3.1 156°81	1°1/ 2.3	18	
9 28	2 57.64	+30 32.0	2.080	2.857	14.9	20.1	9 28	3 2.44	+14 47.3	1.917	2.742	14.3	20.6
10 8	2 53.55	+30 52.4	1.990	2.849	12.3	19.9	10 8	2 56.86	+14 7.3	1.845	2.749	10.8	20.4
10 18	2 47.16	+30 55.5	1.920	2.841	9.3	19.7	10 18	2 49.08	+13 18.0	1.796	2.756	6.9	20.2
10 28	2 39.10	+30 39.7	1.875	2.834	6.5	19.5	10 28	2 39.81	+12 22.7	1.774	2.763	2.6	19.9
11 7	2 30.34	+30 5.6	1.857	2.827	5.0	19.4	11 7	2 30.07	+11 26.6	1.781	2.768	2.4	19.9
11 17	2 21.97	+29 16.5	1.866	2.821	6.4	19.5	11 17	2 20.91	+10 35.3	1.818	2.773	6.5	20.2
11 27	2 15.04	+28 18.8	1.902	2.815	9.3	19.7	11 27	2 13.28	+ 9 54.0	1.882	2.777	10.4	20.5
12 7	2 10.31	+27 19.5	1.963	2.809	12.3	19.8	12 7	2 7.85	+ 9 26.3	1.970	2.780	13.7	20.7
<b>103244</b>	2000 <i>AK</i> <sub>4</sub>	11	3.1 330°68	5°8/30.8	18		<b>394487</b>	2007 <i>TO</i> <sub>90</sub>	11	3.1 320°15	3°4/30.9	18	
9 28	2 59.37	+ 4 51.6	1.345	2.207	17.1	19.7	9 28	2 56.16	+13 3.4	1.728	2.574	14.7	20.6
10 8	2 55.37	+ 3 53.5	1.279	2.201	13.2	19.4	10 8	2 52.35	+11 10.3	1.653	2.570	11.0	20.3
10 18	2 48.52	+ 2 53.1	1.233	2.195	9.0	19.2	10 18	2 46.31	+ 9 3.8	1.601	2.566	7.0	20.1
10 28	2 39.65	+ 1 58.3	1.212	2.190	6.0	19.0	10 28	2 38.77	+ 6 51.9	1.577	2.562	3.7	19.9
11 7	2 30.03	+ 1 17.5	1.215	2.186	7.0	19.0	11 7	2 30.72	+ 4 44.6	1.582	2.559	4.8	19.9
11 17	2 21.05	+ 0 56.9	1.244	2.181	10.9	19.3	11 17	2 23.21	+ 2 52.0	1.615	2.555	8.7	20.2
11 27	2 13.98	+ 1 0.1	1.295	2.178	15.1	19.5	11 27	2 17.20	+ 1 21.9	1.675	2.552	12.6	20.4
12 7	2 9.67	+ 1 27.0	1.366	2.174	18.8	19.7	12 7	2 13.35	+ 0 18.1	1.757	2.549	15.9	20.6
<b>342145</b>	2008 <i>SQ</i> <sub>131</sub>	11	3.1 62°85	2°1/ 4.4	18		<b>242217</b>	2003 <i>RJ</i> <sub>13</sub>	11	3.1 345°57	4°6/ 6.9	17	
9 28	3 2.72	+20 48.7	1.684	2.502	16.2	20.8	9 28	2 59.93	+29 38.8	2.228	3.001	14.2	20.8
10 8	2 57.62	+21 2.7	1.607	2.503	12.7	20.6	10 8	2 55.10	+30 4.2	2.142	2.999	11.6	20.7
10 18	2 49.85	+21 3.9	1.552	2.503	8.6	20.3	10 18	2 48.07	+30 14.2	2.078	2.998	8.7	20.5
10 28	2 40.15	+20 52.2	1.521	2.504	4.2	20.1	10 28	2 39.48	+30 7.2	2.038	2.998	6.0	20.3
11 7	2 29.71	+20 29.7	1.517	2.505	2.5	20.0	11 7	2 30.25	+29 43.6	2.026	2.997	4.6	20.2
11 17	2 19.81	+20 0.6	1.542	2.505	6.4	20.2	11 17	2 21.42	+29 6.5	2.042	2.996	6.0	20.3
11 27	2 11.69	+19 31.1	1.592	2.506	10.7	20.5	11 27	2 13.98	+28 21.1	2.086	2.995	8.8	20.5
12 7	2 6.15	+19 6.9	1.667	2.507	14.5	20.7	12 7	2 8.64	+27 33.9	2.155	2.995	11.6	20.7
<b>163921</b>	2003 <i>SK</i> <sub>278</sub>	11	3.1 50°26	3°5/ 5.6	18		<b>187141</b>	2005 <i>QG</i> <sub>146</sub>	11	3.1 49°65	5°2/31.4	18	
9 28	3 0.98	+25 52.5	1.472	2.286	18.3	19.7	9 28	3 2.11	+ 6 17.0	1.201	2.065	18.6	19.4
10 8	2 56.37	+25 45.3	1.417	2.307	14.5	19.5	10 8	2 57.26	+ 5 22.6	1.163	2.087	14.0	19.2
10 18	2 48.97	+25 17.7	1.382	2.327	10.1	19.3	10 18	2 49.51	+ 4 26.8	1.146	2.110	9.3	19.0
10 28	2 39.75	+24 30.3	1.370	2.348	5.6	19.1	10 28	2 39.96	+ 3 37.7	1.152	2.133	5.6	18.9
11 7	2 30.07	+23 27.6	1.385	2.369	3.5	19.0	11 7	2 30.07	+ 3 2.6	1.182	2.157	6.4	19.0
11 17	2 21.29	+22 16.9	1.426	2.391	6.7	19.3	11 17	2 21.26	+ 2 46.8	1.238	2.182	10.3	19.3
11 27	2 14.58	+21 7.4	1.493	2.413	10.8	19.6	11 27	2 14.70	+ 2 52.6	1.317	2.206	14.4	19.6
12 7	2 10.62	+20 6.8	1.583	2.435	14.5	19.8	12 7	2 11.00	+ 3 19.0	1.416	2.231	17.9	19.9
<b>34697</b>	2001 <i>OS</i> <sub>14</sub>	11	3.1 150°14	5°9/ 7.7	18		<b>359105</b>	2009 <i>BD</i> <sub>7</sub>	11	3.1 338°07	1°8/ 2.1	17	
9 28	3 2.69	+32 36.9	2.068	2.826	15.6	18.5	9 28	2 50.98	+14 55.8	1.130	2.005	18.6	19.9
10 8	2 57.42	+33 9.2	1.984	2.828	13.0	18.3	10 8	2 49.75	+14 13.9	1.050	1.982	14.4	19.6
10 18	2 49.64	+33 23.3	1.922	2.830	10.1	18.1	10 18	2 45.39	+13 15.5	0.988	1.959	9.2	19.3
10 28	2 40.07	+33 16.3	1.883	2.832	7.3	18.0	10 28	2 38.63	+12 5.5	0.949	1.938	3.6	18.9
11 7	2 29.79	+32 48.5	1.872	2.834	5.9	17.9	11 7	2 30.75	+10 52.4	0.932	1.919	3.6	18.8
11 17	2 19.99	+32 2.8	1.888	2.835	7.0	18.0	11 17	2 23.32	+ 9 46.7	0.938	1.902	9.5	19.1
11 27	2 11.82	+31 5.7	1.931	2.837	9.6	18.1	11 27	2 17.90	+ 8 58.3	0.967	1.887	15.2	19.3
12 7	2 6.06	+30 5.0	1.999	2.838	12.4	18.3	12 7	2 15.54	+ 8 33.5	1.013	1.874	20.1	19.6
<b>324209</b>	2006 <i>BQ</i> <sub>2</sub>	11	3.1 211°93	3°0/ 6.2	17		<b>162248</b>	1999 <i>TW</i> <sub>267</sub>	11	3.1 350°41	7°0/ 8.		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>74270</b>	1998 <i>SR</i> <sub>110</sub>		11 3.1 337°52	6°5/ 6.1	18		<b>286098</b>	2001 <i>TX</i> <sub>68</sub>		11 3.1 118°05	0°6/ 3.6	18	
9 28	3 3.10	+27 21.8	1.499	2.304	18.5	18.7	9 28	3 0.01	+18 19.2	2.047	2.864	13.7	20.6
10 8	2 58.76	+28 36.4	1.415	2.293	15.2	18.5	10 8	2 55.02	+18 9.9	1.971	2.869	10.6	20.4
10 18	2 51.12	+29 36.1	1.350	2.282	11.5	18.3	10 18	2 47.93	+17 50.4	1.918	2.874	6.9	20.2
10 28	2 40.87	+30 15.8	1.309	2.272	8.0	18.0	10 28	2 39.41	+17 22.3	1.892	2.879	2.9	20.0
11 7	2 29.32	+30 32.7	1.292	2.264	6.5	17.9	11 7	2 30.39	+16 48.8	1.894	2.883	1.6	19.9
11 17	2 18.13	+30 28.1	1.301	2.256	8.6	18.0	11 17	2 21.85	+16 13.9	1.926	2.888	5.6	20.2
11 27	2 8.95	+30 8.2	1.334	2.248	12.3	18.2	11 27	2 14.71	+15 42.6	1.985	2.892	9.3	20.4
12 7	2 2.94	+29 41.8	1.389	2.242	16.1	18.4	12 7	2 9.63	+15 19.0	2.069	2.896	12.5	20.6
<b>361956</b>	2008 <i>JW</i> <sub>12</sub>		11 3.1 115°32	4°5/30.4	18		<b>449724</b>	2014 <i>NO</i> <sub>16</sub>		11 3.2 65°22	2°7/ 5.6	18	
9 28	2 57.54	+ 3 5.1	2.233	3.071	12.0	21.1	9 28	2 58.67	+26 49.8	1.883	2.681	15.5	20.5
10 8	2 52.81	+ 2 15.2	2.169	3.077	9.2	20.9	10 8	2 54.12	+26 11.7	1.816	2.697	12.3	20.3
10 18	2 46.34	+ 1 25.8	2.129	3.084	6.4	20.8	10 18	2 47.35	+25 14.6	1.771	2.712	8.5	20.1
10 28	2 38.74	+ 0 41.9	2.117	3.089	4.6	20.7	10 28	2 39.16	+24 0.2	1.751	2.728	4.7	19.9
11 7	2 30.78	+ 0 8.0	2.133	3.095	5.3	20.7	11 7	2 30.59	+22 33.3	1.759	2.744	2.8	19.8
11 17	2 23.27	- 0 12.2	2.178	3.101	7.8	20.9	11 17	2 22.72	+21 1.0	1.796	2.760	5.6	20.0
11 27	2 16.95	- 0 16.7	2.248	3.107	10.6	21.1	11 27	2 16.46	+19 31.6	1.861	2.776	9.3	20.3
12 7	2 12.37	- 0 5.1	2.342	3.112	13.1	21.3	12 7	2 12.41	+18 12.2	1.951	2.792	12.6	20.5
<b>391518</b>	2007 <i>RG</i> <sub>164</sub>		11 3.1 92°45	1°5/ 4.2	18		<b>232435</b>	2003 <i>FP</i> <sub>62</sub>		11 3.2 260°46	1°0/ 2.5	18	
9 28	3 0.80	+21 14.6	1.781	2.597	15.5	21.5	9 28	3 1.25	+14 34.0	1.736	2.569	15.1	21.3
10 8	2 55.87	+20 59.0	1.711	2.607	12.0	21.3	10 8	2 56.48	+14 10.8	1.647	2.556	11.6	21.0
10 18	2 48.56	+20 29.2	1.663	2.616	8.0	21.1	10 18	2 49.17	+13 38.0	1.580	2.542	7.5	20.8
10 28	2 39.65	+19 46.6	1.641	2.625	3.7	20.8	10 28	2 39.99	+12 58.3	1.539	2.528	2.9	20.4
11 7	2 30.22	+18 55.2	1.646	2.635	2.0	20.7	11 7	2 29.99	+12 16.1	1.526	2.513	2.4	20.4
11 17	2 21.41	+18 0.6	1.680	2.644	6.0	21.0	11 17	2 20.39	+11 37.0	1.540	2.498	7.1	20.7
11 27	2 14.28	+17 9.5	1.741	2.653	10.1	21.3	11 27	2 12.35	+11 6.7	1.581	2.484	11.6	20.9
12 7	2 9.49	+16 27.6	1.826	2.662	13.6	21.5	12 7	2 6.72	+10 49.6	1.645	2.468	15.4	21.1
<b>520713</b>	2014 <i>QS</i> <sub>467</sub>		11 3.1 91°79	2°8/31.7	18		<b>195348</b>	2002 <i>EX</i> <sub>152</sub>		11 3.2 188°48	2°2/ 1.2	18	
9 28	2 55.95	+ 8 57.8	2.281	3.118	11.9	21.8	9 28	2 58.97	+13 17.0	2.004	2.835	13.5	19.9
10 8	2 51.65	+ 8 9.2	2.208	3.119	9.0	21.6	10 8	2 54.20	+12 3.7	1.926	2.835	10.2	19.6
10 18	2 45.64	+ 7 16.5	2.159	3.121	5.8	21.4	10 18	2 47.39	+10 40.6	1.872	2.834	6.4	19.4
10 28	2 38.48	+ 6 23.9	2.138	3.122	3.1	21.2	10 28	2 39.20	+ 9 12.7	1.846	2.833	2.9	19.2
11 7	2 30.94	+ 5 36.2	2.146	3.123	3.6	21.3	11 7	2 30.55	+ 7 46.7	1.849	2.831	3.4	19.2
11 17	2 23.79	+ 4 57.4	2.183	3.125	6.6	21.5	11 17	2 22.38	+ 6 29.5	1.882	2.829	7.1	19.5
11 27	2 17.79	+ 4 31.2	2.247	3.126	9.7	21.7	11 27	2 15.59	+ 5 26.9	1.942	2.826	10.7	19.7
12 7	2 13.47	+ 4 19.4	2.335	3.127	12.4	21.9	12 7	2 10.79	+ 4 42.4	2.026	2.823	13.9	19.9
<b>185212</b>	2006 <i>TB</i> <sub>53</sub>		11 3.1 150°08	1°4/ 2.2	18		<b>212737</b>	2007 <i>RZ</i> <sub>252</sub>		11 3.2 316°00	3°8/31.1	18	
9 28	3 2.70	+14 2.3	1.733	2.565	15.2	21.0	9 28	2 55.45	+10 44.0	1.599	2.454	15.2	20.0
10 8	2 57.28	+13 23.5	1.664	2.572	11.6	20.8	10 8	2 52.09	+ 9 19.5	1.520	2.442	11.5	19.8
10 18	2 49.45	+12 35.2	1.617	2.579	7.3	20.5	10 18	2 46.33	+ 7 44.2	1.464	2.430	7.5	19.5
10 28	2 39.99	+11 41.5	1.596	2.585	2.9	20.3	10 28	2 38.87	+ 6 5.5	1.434	2.418	4.1	19.3
11 7	2 30.01	+10 47.7	1.604	2.590	2.7	20.3	11 7	2 30.73	+ 4 32.2	1.430	2.407	5.1	19.3
11 17	2 20.66	+ 9 59.9	1.640	2.595	7.1	20.6	11 17	2 23.07	+ 3 13.3	1.454	2.396	9.2	19.5
11 27	2 13.00	+ 9 23.5	1.703	2.600	11.2	20.8	11 27	2 16.97	+ 2 15.6	1.502	2.386	13.3	19.7
12 7	2 7.71	+ 9 2.1	1.789	2.604	14.8	21.1	12 7	2 13.17	+ 1 42.3	1.571	2.376	16.9	20.0
<b>468077</b>	2013 <i>TU</i> <sub>14</sub>		11 3.1 57°07	6°8/28.7	16		<b>72885</b>	2001 <i>KJ</i> <sub>14</sub>		11 3.2 203°43	3°0/31.8	18	
9 28	2 59.01	+ 9 40.0	1.173	2.041	18.6	20.7	9 28	2 58.79	+ 6 4.1	2.420	3.250	11.5	18.9
10 8	2 54.93	+ 6 40.9	1.135	2.062	14.0	20.4	10 8	2 53.72	+ 5 44.9	2.343	3.249	8.7	18.7
10 18	2 48.02	+ 3 33.0	1.119	2.084	9.3	20.3	10 18	2 46.95	+ 5 24.9	2.290	3.248	5.8	18.5
10 28	2 39.39	+ 0 32.8	1.130	2.106	6.8	20.2	10 28	2 39.02	+ 5 7.3	2.265	3.247	3.3	18.4
11 7	2 30.48	- 2 3.0	1.167	2.129	8.7	20.4	11 7	2 30.67	+ 4 55.3	2.270	3.246	3.7	18.4
11 17	2 22.65	- 4 2.3	1.229	2.151	12.6	20.7	11 17	2 22.68	+ 4 51.7	2.304	3.244	6.4	18.6
11 27	2 16.99	- 5 20.3	1.314	2.174	16.5	21.0	11 27	2 15.81	+ 4 58.5	2.366	3.243	9.4	18.7
12 7	2 14.07	- 5 58.9	1.417	2.197	19.7	21.3	12 7	2 10.59	+ 5 16.6	2.453	3.241	12.0	18.9
<b>30874</b>	1992 <i>EA</i> <sub>23</sub>		11 3.1 321°04	0°5/ 3.4	18		<b>49193</b>	1998 <i>SM</i> <sub>91</sub>		11 3.2 264°47	3°4/ 5.3	18	
9 28	3 2.09	+16 3.0	1.393	2.235	17.7	18.9	9 28	3 2.27	+24 41.1	1.589	2.400	17.3	18.8
10 8	2 57.73	+16 17.0	1.313	2.225	13.7	18.6	10 8	2 57.64	+24 49.6	1.506	2.394	13.9	18.6
10 18	2 50.28	+16 21.5	1.254	2.216	9.0	18.3	10 18	2 50.08	+24 40.6	1.443	2.388	9.8	18.3
10 28	2 40.48	+16 17.1	1.218	2.206	3.6	18.0	10 28	2 40.39	+24 12.9	1.403	2.381	5.5	18.1
11 7	2 29.65	+16 6.7	1.208	2.197	2.1	17.9	11 7	2 29.79	+23 28.7	1.390	2.375	3.5	17.9
11 17	2 19.32	+15 54.5	1.225	2.189	7.6	18.2	11 17	2 19.71	+22 33.5	1.404	2.368	6.9	18.1
11 27	2 10.96	+15 46.4	1.266	2.181	12.7	18.5	11 27	2 11.52	+21 35.4	1.445	2.362	11.3	18.4
12 7	2 5.57	+15 47.2	1.328	2.174	17.1	18.7	12 7	2 6.13	+20 42.7	1.508	2.355	15.3	18.6
<b>398009</b>	2009 <i>CT</i> <sub>6</sub>		11 3.1 323°62	2°8/ 4.9	18		<b>4027</b>	Mitton		11 3.2 193°75	0°4/ 2.8	18	
9 28	2 56.11	+23 12.1	1.400	2.235	18.0	20.3	9 28	3 2.35	+16 18.7	1.931	2.752	14.3	17.6
10 8	2 53.36	+23 8.9	1.309	2.212	14.4	20.0	10 8	2 56.95	+15 48.1	1.848	2.750	11.0	17.4
10 18	2 47.59	+22 46.4	1.236	2.191	10.0	19.7	10 18	2 49.25	+15 7.0	1.789	2.748	7.0	17.2
10 28	2 39.49	+22 4.1	1.187	2.170	5.2	19.4	10 28	2 39.97	+14 18.0	1.757	2.745	2.7	16.9
11 7	2 30.26	+21 5.3	1.162	2.149	3.0	19.2	11 7	2 30.08	+13 25.6	1.753	2.741	2.0	16.8
11 17	2 21.40	+19 56.6	1.162	2.130	7.4	19.4	11 17	2 20.68	+12 35.1	1.779	2.737	6.3	17.1
11 27	2 14.41	+18 47.9	1.187	2.112	12.5	19.6	11 27	2 12.78	+11 52.3	1.832	2.732	10.4	17.4
12 7	2 10.34	+17 48.7	1.234	2.094	17.2	19.9	12 7	2 7.10	+11 21.6	1.910	2.727	13.9	17.6
<b>39412</b>	3097 <i>T</i> <sub>-1</sub>		11 3.1 313°80	1°4/ 3.9	18		<b>485957</b>	2012 <i>HL</i> <sub>55</sub>		11 3.2 178°12	1°3/ 1.9	18	

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11 3.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>161467</b>	2004 <i>DY</i> <sub>17</sub>		11 3.2 131°67'	1°0/ 3.9 16			<b>281223</b>	2007 <i>HV</i> <sub>66</sub>		11 3.2 242°39'	4°6/31.1 18		
9 28	3 5.30	+19 37.1	2.005	2.810	14.4	21.4	9 28	3 0.73	+5 28.9	1.733	2.577	14.7	20.5
10 8	2 58.96	+19 27.5	1.937	2.827	11.1	21.2	10 8	2 55.90	+4 40.0	1.657	2.571	11.3	20.2
10 18	2 50.39	+19 6.4	1.892	2.843	7.3	21.0	10 18	2 48.68	+3 48.8	1.605	2.564	7.6	20.0
10 28	2 40.36	+18 35.2	1.874	2.859	3.2	20.8	10 28	2 39.80	+3 1.1	1.578	2.557	4.8	19.8
11 7	2 29.89	+17 57.0	1.885	2.874	1.7	20.7	11 7	2 30.28	+2 23.2	1.579	2.550	5.6	19.9
11 17	2 20.07	+17 16.3	1.926	2.888	5.6	21.0	11 17	2 21.24	+2 0.1	1.607	2.543	9.1	20.1
11 27	2 11.85	+16 38.6	1.996	2.901	9.4	21.2	11 27	2 13.76	+1 55.4	1.661	2.536	12.8	20.3
12 7	2 5.88	+16 8.5	2.091	2.913	12.6	21.5	12 7	2 8.56	+2 9.7	1.736	2.528	16.1	20.5
<b>1520</b>	<i>Imatra</i>		11 3.2 24°21'	4°0/ 7.0 18			<b>258729</b>	2002 <i>GT</i> <sub>117</sub>		11 3.2 0°84'	4°6/30.3 18		
9 28	2 56.85	+30 28.7	2.054	2.833	15.0	15.1	9 28	2 56.07	+4 34.4	2.030	2.876	12.8	20.1
10 8	2 52.80	+30 5.9	1.974	2.837	12.2	14.9	10 8	2 51.95	+3 31.7	1.962	2.875	9.8	19.9
10 18	2 46.58	+29 23.2	1.914	2.841	9.0	14.7	10 18	2 45.95	+2 27.7	1.918	2.875	6.7	19.7
10 28	2 38.92	+28 20.6	1.880	2.846	5.7	14.5	10 28	2 38.69	+1 28.0	1.900	2.875	4.7	19.6
11 7	2 30.78	+27 1.3	1.873	2.850	4.0	14.4	11 7	2 30.99	+0 38.4	1.910	2.875	5.5	19.6
11 17	2 23.19	+25 31.2	1.894	2.855	5.7	14.5	11 17	2 23.73	+0 3.7	1.948	2.876	8.3	19.8
11 27	2 17.09	+23 58.4	1.944	2.861	8.9	14.7	11 27	2 17.74	-0 13.2	2.012	2.876	11.4	20.0
12 7	2 13.10	+22 30.5	2.019	2.866	12.0	14.9	12 7	2 13.59	-0 11.6	2.098	2.877	14.1	20.2
<b>375676</b>	2009 <i>HU</i> <sub>13</sub>		11 3.2 162°47'	2°0/ 4.4 16			<b>267833</b>	2003 <i>UN</i> <sub>133</sub>		11 3.2 357°95'	5°5/29.9 18		
9 28	3 6.51	+20 58.4	1.652	2.464	16.7	21.9	9 28	2 52.82	+4 57.7	1.628	2.491	14.5	19.8
10 8	3 0.56	+21 6.7	1.577	2.469	13.1	21.7	10 8	2 49.94	+3 39.8	1.564	2.487	11.1	19.5
10 18	2 51.78	+21 1.4	1.522	2.473	8.8	21.5	10 18	2 44.87	+2 19.2	1.523	2.484	7.7	19.3
10 28	2 41.00	+20 42.3	1.493	2.477	4.2	21.2	10 28	2 38.31	+1 3.7	1.507	2.483	5.5	19.2
11 7	2 29.47	+20 11.8	1.492	2.480	2.4	21.1	11 7	2 31.23	+0 1.1	1.517	2.482	6.6	19.3
11 17	2 18.57	+19 34.9	1.520	2.483	6.6	21.4	11 17	2 24.65	-0 42.3	1.552	2.482	9.8	19.5
11 27	2 9.59	+18 58.1	1.574	2.484	11.0	21.6	11 27	2 19.54	-1 2.7	1.612	2.484	13.3	19.7
12 7	2 3.36	+18 27.9	1.651	2.486	14.8	21.9	12 7	2 16.54	-0 59.9	1.692	2.486	16.3	19.9
<b>449847</b>	2014 <i>SW</i> <sub>198</sub>		11 3.2 88°39'	6°4/27.8 18			<b>76030</b>	2000 <i>DM</i> <sub>44</sub>		11 3.2 131°85'	3°9/ 6.3 18		
9 28	2 55.72	-2 58.0	2.339	3.176	11.6	21.0	9 28	3 2.80	+27 55.9	2.174	2.950	14.4	19.9
10 8	2 51.32	-4 20.8	2.289	3.189	9.2	20.8	10 8	2 57.20	+28 11.0	2.096	2.959	11.6	19.8
10 18	2 45.35	-5 38.9	2.265	3.201	7.2	20.7	10 18	2 49.38	+28 10.7	2.041	2.968	8.5	19.6
10 28	2 38.38	-6 46.2	2.267	3.214	6.4	20.7	10 28	2 40.03	+27 54.1	2.011	2.977	5.4	19.4
11 7	2 31.14	-7 37.4	2.298	3.227	7.3	20.8	11 7	2 30.15	+27 22.3	2.009	2.985	3.9	19.4
11 17	2 24.35	-8 9.2	2.355	3.239	9.2	20.9	11 17	2 20.78	+26 39.1	2.036	2.993	5.7	19.5
11 27	2 18.69	-8 20.0	2.437	3.252	11.4	21.1	11 27	2 12.90	+25 50.1	2.092	3.001	8.8	19.7
12 7	2 14.64	-8 10.9	2.541	3.264	13.3	21.3	12 7	2 7.20	+25 1.9	2.173	3.008	11.7	19.9
<b>261229</b>	2005 <i>UF</i> <sub>35</sub>		11 3.2 238°35'	0°1/ 3.1 18			<b>156898</b>	2003 <i>EX</i> <sub>29</sub>		11 3.2 253°75'	0°1/ 3.1 18		
9 28	2 57.80	+16 55.4	2.341	3.159	12.2	21.7	9 28	3 1.52	+16 57.4	1.844	2.668	14.8	22.1
10 8	2 53.18	+16 30.1	2.251	3.151	9.4	21.5	10 8	2 56.64	+16 32.5	1.749	2.652	11.4	21.8
10 18	2 46.72	+15 55.7	2.185	3.143	6.0	21.3	10 18	2 49.28	+15 55.9	1.676	2.635	7.4	21.6
10 28	2 38.98	+15 14.3	2.147	3.134	2.3	21.0	10 28	2 40.09	+15 9.7	1.629	2.617	2.9	21.2
11 7	2 30.73	+14 29.4	2.137	3.126	1.5	20.9	11 7	2 30.07	+14 18.1	1.610	2.599	1.9	21.1
11 17	2 22.81	+13 45.0	2.158	3.117	5.3	21.2	11 17	2 20.40	+13 26.7	1.620	2.580	6.6	21.4
11 27	2 16.05	+13 5.9	2.207	3.108	8.8	21.4	11 27	2 12.21	+12 42.0	1.657	2.561	11.0	21.6
12 7	2 11.05	+12 35.7	2.280	3.099	11.8	21.6	12 7	2 6.35	+12 9.1	1.718	2.541	14.9	21.8
<b>482660</b>	2013 <i>BM</i> <sub>64</sub>		11 3.2 310°10'	0°0/ 2.9 18			<b>54114</b>	2000 <i>HZ</i> <sub>12</sub>		11 3.2 104°58'	3°4/ 5.8 18		
9 28	2 59.27	+16 15.4	1.628	2.465	15.8	21.6	9 28	3 0.95	+26 5.2	2.006	2.798	14.9	19.0
10 8	2 55.18	+16 7.2	1.541	2.450	12.2	21.3	10 8	2 55.95	+26 12.2	1.928	2.803	11.9	18.8
10 18	2 48.46	+15 48.5	1.475	2.436	7.9	21.0	10 18	2 48.65	+26 3.8	1.872	2.809	8.5	18.6
10 28	2 39.77	+15 21.1	1.434	2.422	3.1	20.7	10 28	2 39.77	+25 39.4	1.842	2.815	5.0	18.4
11 7	2 30.21	+14 48.8	1.419	2.408	2.0	20.6	11 7	2 30.32	+25 1.1	1.839	2.820	3.4	18.3
11 17	2 21.04	+14 16.8	1.432	2.395	7.0	20.9	11 17	2 21.39	+24 13.1	1.865	2.826	5.8	18.5
11 27	2 13.49	+13 50.9	1.471	2.382	11.6	21.1	11 27	2 13.99	+23 21.7	1.918	2.831	9.2	18.7
12 7	2 8.46	+13 35.9	1.532	2.369	15.7	21.4	12 7	2 8.83	+22 33.2	1.996	2.836	12.4	18.9
<b>361831</b>	2008 <i>CU</i> <sub>200</sub>		11 3.2 257°84'	2°9/31.8 18			<b>108576</b>	2001 <i>MF</i> <sub>6</sub>		11 3.2 115°79'	1°1/ 2.4 18		
9 28	2 57.40	+9 26.1	2.058	2.896	12.9	21.2	9 28	3 1.75	+12 52.0	2.060	2.885	13.4	19.9
10 8	2 53.03	+8 35.9	1.977	2.890	9.8	21.0	10 8	2 56.21	+12 38.9	1.992	2.896	10.1	19.8
10 18	2 46.69	+7 40.4	1.921	2.883	6.3	20.8	10 18	2 48.64	+12 19.9	1.947	2.907	6.4	19.6
10 28	2 38.98	+6 44.0	1.891	2.876	3.3	20.6	10 28	2 39.72	+11 57.6	1.930	2.918	2.5	19.3
11 7	2 30.76	+5 52.0	1.890	2.869	3.9	20.6	11 7	2 30.37	+11 35.3	1.942	2.928	2.2	19.3
11 17	2 22.93	+5 9.7	1.918	2.861	7.2	20.8	11 17	2 21.55	+11 16.6	1.983	2.939	6.0	19.6
11 27	2 16.37	+4 41.0	1.972	2.854	10.7	21.0	11 27	2 14.15	+11 5.0	2.052	2.948	9.6	19.8
12 7	2 11.70	+4 28.3	2.050	2.847	13.8	21.2	12 7	2 8.77	+11 3.0	2.145	2.958	12.7	20.1
<b>250282</b>	2003 <i>HS</i> <sub>57</sub>		11 3.2 104°76'	0°4/ 17.9 17			<b>142804</b>	2002 <i>UT</i> <sub>27</sub>		11 3.2 165°15'	0°1/ 3.1 18		
9 28	3 4.14	+17 19.3	1.404	2.240	17.9	21.2	9 28	3 0.20	+15 56.0	1.907	2.734	14.2	20.1
10 8	2 58.82	+16 41.0	1.345	2.254	13.7	21.0	10 8	2 55.36	+15 44.1	1.830	2.734	10.9	19.9
10 18	2 50.62	+15 48.5	1.307	2.268	8.7	20.8	10 18	2 48.27	+15 23.2	1.775	2.734	7.0	19.6
10 28	2 40.52	+14 45.8	1.293	2.282	3.3	20.5	10 28	2 39.64	+14 55.4	1.746	2.734	2.7	19.4
11 7	2 29.88	+13 39.5	1.307	2.295	2.3	20.4	11 7	2 30.42	+14 24.3	1.746	2.735	1.8	19.3
11 17	2 20.13	+12 37.4	1.347	2.308	7.6	20.8	11 17	2 21.68	+13 54.1	1.774	2.735	6.1	19.6
11 27	2 12.50	+11 47.2	1.413	2.320	12.3	21.1	11 27	2 14.40	+13 29.8	1.830	2.735	10.1	19.8
12 7	2 7.71	+11 13.7	1.501	2.332	16.2	21.4	12 7	2 9.29	+13 15.0	1.909	2.735	13.5	20.1
<b>227866</b>	2007 <i>DQ</i> <sub>97</sub>		11 3.2 216°21'	0°4/ 2.8 18			<b>224762</b>	2006 <i>ET</i> <sub>8</sub>		11 3.2 342°05'	0°0/ 2.9 18		
9 28	3 1.48	+16 14.2											

EPHEMERIDES

11 3.2

11 3.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>13542</b>	1991 VC <sub>5</sub>		11 3.2 327°11	1°3/ 2.6 18			<b>4684</b>	Bendjaya		11 3.2 118°53	0°0/ 2.9 18		
9 28	3 2.80	+12 10.1	1.350	2.200	17.7	17.1	9 28	3 1.67	+18 17.0	1.688	2.514	15.8	17.3
10 8	2 58.29	+12 15.6	1.275	2.192	13.6	16.8	10 8	2 56.60	+17 37.5	1.620	2.524	12.1	17.1
10 18	2 50.65	+12 15.0	1.220	2.185	8.8	16.5	10 18	2 49.09	+16 44.6	1.575	2.534	7.8	16.9
10 28	2 40.69	+12 10.6	1.189	2.178	3.4	16.2	10 28	2 39.95	+15 41.5	1.556	2.544	3.0	16.6
11 7	2 29.75	+12 6.0	1.183	2.171	2.9	16.1	11 7	2 30.31	+14 33.9	1.564	2.553	1.9	16.5
11 17	2 19.36	+12 5.6	1.204	2.165	8.2	16.5	11 17	2 21.35	+13 28.6	1.601	2.562	6.6	16.9
11 27	2 10.99	+12 13.8	1.249	2.159	13.3	16.7	11 27	2 14.13	+12 32.6	1.665	2.571	10.9	17.1
12 7	2 5.61	+12 33.7	1.315	2.154	17.6	17.0	12 7	2 9.34	+11 50.7	1.752	2.579	14.5	17.4
<b>444362</b>	2005 XA <sub>47</sub>		11 3.2 38°01	3°1/ 1.6 18			<b>264794</b>	2002 NX <sub>49</sub>		11 3.2 30°47	7°3/ 30.9 18		
9 28	3 2.60	+ 6 44.5	1.646	2.490	15.4	19.8	9 28	2 59.23	+ 3 48.2	0.927	1.812	20.9	19.0
10 8	2 57.17	+ 6 45.3	1.593	2.506	11.6	19.6	10 8	2 55.73	+ 2 45.3	0.897	1.831	16.0	18.7
10 18	2 49.36	+ 6 45.7	1.561	2.523	7.5	19.4	10 18	2 48.84	+ 1 45.0	0.885	1.851	11.0	18.6
10 28	2 40.02	+ 6 49.1	1.556	2.540	3.8	19.2	10 28	2 39.84	+ 0 57.8	0.894	1.873	7.5	18.5
11 7	2 30.25	+ 6 58.5	1.578	2.559	4.0	19.3	11 7	2 30.45	+ 0 32.5	0.925	1.896	8.5	18.6
11 17	2 21.20	+ 7 16.5	1.627	2.577	7.7	19.6	11 17	2 22.32	+ 0 33.7	0.977	1.920	12.4	18.9
11 27	2 13.90	+ 7 44.6	1.703	2.596	11.4	19.8	11 27	2 16.74	+ 1 1.8	1.051	1.946	16.7	19.2
12 7	2 8.98	+ 8 23.2	1.801	2.616	14.7	20.1	12 7	2 14.34	+ 1 53.2	1.142	1.972	20.4	19.6
<b>54752</b>	2001 KL <sub>48</sub>		11 3.2 107°56	1°3/ 3.9 18			<b>293565</b>	2007 HD <sub>55</sub>		11 3.2 182°89	3°0/ 31.0 18		
9 28	3 5.94	+18 40.5	1.603	2.424	16.8	19.5	9 28	2 56.04	+ 7 5.3	2.667	3.498	10.5	20.8
10 8	3 0.05	+18 50.8	1.537	2.436	13.0	19.3	10 8	2 51.51	+ 6 10.2	2.591	3.498	8.0	20.6
10 18	2 51.40	+18 49.4	1.493	2.448	8.5	19.1	10 18	2 45.50	+ 5 12.3	2.540	3.498	5.3	20.5
10 28	2 40.87	+18 36.9	1.474	2.459	3.7	18.8	10 28	2 38.51	+ 4 15.8	2.518	3.498	3.2	20.3
11 7	2 29.70	+18 16.0	1.482	2.471	2.0	18.8	11 7	2 31.18	+ 3 24.8	2.526	3.497	3.8	20.4
11 17	2 19.26	+17 51.3	1.518	2.481	6.6	19.1	11 17	2 24.18	+ 2 43.3	2.564	3.496	6.3	20.5
11 27	2 10.76	+17 28.5	1.581	2.492	11.0	19.4	11 27	2 18.16	+ 2 14.2	2.629	3.495	9.0	20.7
12 7	2 4.98	+17 12.8	1.668	2.502	14.7	19.6	12 7	2 13.60	+ 1 59.0	2.719	3.493	11.4	20.9
<b>126678</b>	2002 CS <sub>218</sub>		11 3.2 304°07	0°1/ 3.1 18			<b>289561</b>	2005 EW <sub>268</sub>		11 3.2 307°22	1°9/ 4.5 18		
9 28	2 58.42	+16 6.6	2.057	2.882	13.4	20.2	9 28	3 0.33	+21 21.6	1.780	2.597	15.5	21.1
10 8	2 53.90	+15 53.3	1.973	2.877	10.3	20.0	10 8	2 55.77	+21 22.8	1.698	2.593	12.2	20.8
10 18	2 47.31	+15 31.5	1.913	2.872	6.6	19.8	10 18	2 48.72	+21 10.5	1.637	2.589	8.2	20.6
10 28	2 39.27	+15 2.9	1.880	2.868	2.6	19.5	10 28	2 39.88	+20 45.0	1.601	2.585	4.0	20.4
11 7	2 30.66	+14 31.0	1.874	2.863	1.7	19.5	11 7	2 30.31	+20 9.2	1.593	2.581	2.3	20.2
11 17	2 22.44	+13 59.9	1.898	2.859	5.8	19.7	11 17	2 21.21	+19 27.7	1.612	2.577	6.1	20.5
11 27	2 15.54	+13 34.1	1.949	2.854	9.6	20.0	11 27	2 13.72	+18 46.8	1.659	2.573	10.3	20.7
12 7	2 10.62	+13 17.2	2.025	2.850	12.9	20.2	12 7	2 8.62	+18 12.4	1.729	2.569	14.0	20.9
<b>56595</b>	2000 JX <sub>40</sub>		11 3.2 4°56	2°0/ 2.1 18			<b>487314</b>	2014 QA <sub>116</sub>		11 3.2 278°15	4°6/ 7.1 17		
9 28	2 56.29	+12 55.9	1.088	1.961	19.4	18.0	9 28	2 59.70	+30 14.3	2.247	3.016	14.2	21.4
10 8	2 53.64	+12 31.2	1.030	1.960	14.8	17.8	10 8	2 54.99	+30 31.3	2.156	3.011	11.6	21.2
10 18	2 47.75	+11 55.9	0.991	1.961	9.4	17.5	10 18	2 48.08	+30 32.1	2.087	3.007	8.8	21.0
10 28	2 39.54	+11 15.1	0.973	1.962	3.8	17.2	10 28	2 39.61	+30 15.2	2.043	3.002	6.0	20.8
11 7	2 30.51	+10 36.1	0.979	1.966	3.6	17.2	11 7	2 30.50	+29 41.5	2.026	2.997	4.6	20.7
11 17	2 22.28	+10 6.3	1.008	1.970	9.2	17.5	11 17	2 21.76	+28 54.1	2.038	2.992	6.0	20.8
11 27	2 16.29	+ 9 52.1	1.059	1.976	14.4	17.8	11 27	2 14.40	+27 58.8	2.077	2.987	8.8	21.0
12 7	2 13.43	+ 9 56.6	1.130	1.984	18.9	18.1	12 7	2 9.12	+27 2.1	2.142	2.982	11.7	21.1
<b>86834</b>	2000 GY <sub>156</sub>		11 3.2 60°21	1°8/ 1.8 18			<b>189380</b>	2008 FF <sub>123</sub>		11 3.2 183°36	0°0/ 2.9 18		
9 28	2 57.88	+13 25.0	1.804	2.643	14.4	19.8	9 28	3 3.96	+16 34.3	1.771	2.594	15.3	21.4
10 8	2 53.56	+12 34.6	1.737	2.649	10.9	19.6	10 8	2 58.41	+16 22.3	1.693	2.594	11.8	21.1
10 18	2 47.08	+11 35.4	1.692	2.655	6.9	19.4	10 18	2 50.34	+16 0.1	1.636	2.594	7.6	20.9
10 28	2 39.15	+10 31.8	1.674	2.662	2.8	19.1	10 28	2 40.50	+15 29.5	1.606	2.594	3.0	20.6
11 7	2 30.77	+ 9 30.0	1.684	2.668	3.0	19.2	11 7	2 29.98	+14 54.2	1.604	2.593	1.8	20.5
11 17	2 22.94	+ 8 35.8	1.722	2.675	7.0	19.4	11 17	2 20.00	+14 19.1	1.631	2.592	6.5	20.8
11 27	2 16.62	+ 7 54.5	1.786	2.682	10.9	19.7	11 27	2 11.69	+13 49.9	1.685	2.590	10.8	21.1
12 7	2 12.43	+ 7 29.3	1.874	2.689	14.2	19.9	12 7	2 5.82	+13 30.8	1.763	2.588	14.5	21.3
<b>304267</b>	2006 RQ <sub>93</sub>		11 3.2 51°39	0°4/ 3.5 18			<b>225149</b>	2008 GV <sub>23</sub>		11 3.2 103°45	0°8/ 2.8 18		
9 28	2 58.47	+18 51.8	1.799	2.626	15.0	20.8	9 28	3 5.52	+13 42.5	1.543	2.377	16.7	20.7
10 8	2 54.10	+18 23.5	1.729	2.632	11.5	20.6	10 8	2 59.77	+13 42.1	1.479	2.387	12.7	20.5
10 18	2 47.47	+17 42.5	1.681	2.639	7.4	20.4	10 18	2 51.25	+13 34.0	1.435	2.396	8.1	20.3
10 28	2 39.32	+16 51.4	1.658	2.646	3.0	20.1	10 28	2 40.84	+13 20.5	1.417	2.406	3.1	20.0
11 7	2 30.66	+15 54.9	1.664	2.653	1.7	20.0	11 7	2 29.80	+13 5.2	1.427	2.415	2.3	19.9
11 17	2 22.58	+14 58.7	1.697	2.660	6.1	20.3	11 17	2 19.48	+12 52.3	1.464	2.424	7.2	20.3
11 27	2 16.06	+14 9.3	1.758	2.667	10.1	20.6	11 27	2 11.11	+12 46.5	1.527	2.432	11.7	20.6
12 7	2 11.75	+13 31.4	1.842	2.675	13.6	20.8	12 7	2 5.44	+12 51.0	1.613	2.441	15.5	20.8
<b>358917</b>	2008 GH <sub>131</sub>		11 3.2 60°76	1°1/ 2.5 18			<b>339167</b>	2004 TE <sub>69</sub>		11 3.2 348°66	0°7/ 2.6 17		
9 28	3 3.06	+11 52.0	1.940	2.768	14.0	20.1	9 28	2 55.74	+12 56.5	2.200	3.033	12.4	19.5
10 8	2 57.18	+11 55.6	1.887	2.792	10.6	20.0	10 8	2 51.77	+12 58.0	2.115	3.024	9.4	19.3
10 18	2 49.21	+11 54.5	1.856	2.816	6.7	19.8	10 18	2 45.92	+12 54.7	2.054	3.016	6.0	19.0
10 28	2 39.93	+11 50.9	1.853	2.841	2.6	19.6	10 28	2 38.76	+12 48.3	2.020	3.008	2.3	18.8
11 7	2 30.32	+11 47.5	1.878	2.865	2.2	19.6	11 7	2 31.05	+12 41.4	2.013	3.001	1.9	18.7
11 17	2 21.38	+11 47.1	1.933	2.890	6.1	19.9	11 17	2 23.66	+12 36.8	2.036	2.995	5.6	19.0
11 27	2 13.99	+11 52.5	2.016	2.914	9.6	20.2	11 27	2 17.42	+12 37.4	2.086	2.990	9.1	19.2
12 7	2 8.72	+12 5.7	2.122	2.939	12.7	20.4	12 7	2 12.95	+12 45.7	2.160	2.985	12.2	19.4
<b>522873</b>	2016 ND <sub>90</sub>		11 3.2 213°41	3°7/ 5.4 18			<b>510080</b>	2010 KB <sub>60</sub>		11 3.2 110°34	2°5/ 1.3 18		
9 28	3 4.15	+24 38.2	1.582	2.391									

EPHEMERIDES

11 3.2

11 3.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>18187</b>	2000 <i>QQ</i> <sub>53</sub>		11 3.2 73°13	0°9/ 2.5 18			<b>209138</b>	2003 <i>SZ</i> <sub>254</sub>		11 3.2 329°41	2°9/ 1.1 18		
9 28	3 1.72	+14 13.8	1.942	2.769	14.0	17.8	9 28	2 57.23	+11 24.4	1.572	2.423	15.6	20.7
10 8	2 56.12	+13 48.9	1.892	2.797	10.6	17.6	10 8	2 53.52	+10 28.1	1.498	2.417	11.8	20.4
10 18	2 48.52	+13 16.7	1.865	2.825	6.6	17.4	10 18	2 47.33	+9 22.8	1.445	2.411	7.6	20.2
10 28	2 39.68	+12 40.4	1.865	2.853	2.5	17.2	10 28	2 39.39	+8 14.1	1.418	2.405	3.6	19.9
11 7	2 30.57	+12 4.0	1.894	2.881	2.1	17.2	11 7	2 30.79	+7 9.3	1.418	2.399	4.2	19.9
11 17	2 22.17	+11 31.9	1.952	2.909	6.0	17.5	11 17	2 22.70	+6 15.5	1.444	2.394	8.4	20.2
11 27	2 15.31	+11 8.2	2.037	2.936	9.6	17.8	11 27	2 16.25	+5 38.7	1.495	2.390	12.6	20.4
12 7	2 10.53	+10 55.4	2.147	2.963	12.6	18.1	12 7	2 12.18	+5 21.8	1.568	2.385	16.3	20.6
<b>305354</b>	2008 <i>BK</i> <sub>14</sub>		11 3.2 333°80	2°4/ 1.9 18			<b>379861</b>	2012 <i>GA</i> <sub>33</sub>		11 3.2 162°90	0°6/ 2.8 16		
9 28	3 0.85	+9 9.2	1.611	2.457	15.5	20.0	9 28	3 2.90	+16 19.4	1.565	2.399	16.5	21.9
10 8	2 56.30	+9 7.1	1.532	2.447	11.9	19.8	10 8	2 57.84	+15 47.0	1.494	2.402	12.6	21.6
10 18	2 49.14	+9 2.2	1.475	2.439	7.7	19.5	10 18	2 50.08	+15 2.4	1.443	2.404	8.1	21.4
10 28	2 40.09	+8 57.5	1.444	2.431	3.5	19.3	10 28	2 40.45	+14 8.7	1.418	2.406	3.1	21.1
11 7	2 30.26	+8 56.7	1.439	2.423	3.5	19.3	11 7	2 30.16	+13 11.6	1.420	2.408	2.3	21.0
11 17	2 20.87	+9 3.4	1.461	2.416	7.8	19.5	11 17	2 20.51	+12 17.8	1.450	2.410	7.3	21.3
11 27	2 13.14	+9 20.5	1.509	2.410	12.1	19.7	11 27	2 12.72	+11 34.2	1.506	2.411	11.8	21.6
12 7	2 7.90	+9 49.7	1.580	2.404	15.9	20.0	12 7	2 7.55	+11 5.5	1.584	2.412	15.7	21.9
<b>22754</b>	Olympus		11 3.2 52°91	5°8/30.2 18			<b>139039</b>	2001 <i>EP</i> <sub>3</sub>		11 3.2 354°35	8°3/ 6.7 18		
9 28	3 0.28	-2 21.7	2.159	2.991	12.6	17.2	9 28	3 4.45	+28 57.9	1.184	2.000	21.8	19.2
10 8	2 54.97	-2 49.8	2.097	2.997	10.0	17.0	10 8	3 0.59	+30 26.2	1.114	1.996	18.1	19.0
10 18	2 47.81	-3 12.4	2.059	3.003	7.4	16.9	10 18	2 52.75	+31 35.0	1.061	1.992	14.0	18.7
10 28	2 39.45	-3 24.7	2.048	3.008	5.9	16.8	10 28	2 41.76	+32 16.9	1.029	1.990	10.1	18.5
11 7	2 30.71	-3 23.1	2.065	3.014	6.5	16.9	11 7	2 29.28	+32 27.9	1.019	1.989	8.3	18.4
11 17	2 22.46	-3 5.4	2.109	3.020	8.7	17.0	11 17	2 17.41	+32 10.1	1.033	1.988	10.2	18.5
11 27	2 15.51	-2 31.3	2.180	3.026	11.3	17.2	11 27	2 8.20	+31 32.5	1.069	1.989	14.1	18.7
12 7	2 10.40	-1 42.0	2.273	3.033	13.7	17.4	12 7	2 2.89	+30 47.6	1.126	1.990	18.2	19.0
<b>9905</b>	Tiziano		11 3.2 277°56	5°2/ 5.7 18			<b>394183</b>	2006 <i>RM</i> <sub>76</sub>		11 3.2 135°48	1°5/ 4.3 18		
9 28	3 6.50	+25 54.6	1.649	2.446	17.4	18.3	9 28	3 2.56	+20 34.9	2.279	3.079	13.1	21.8
10 8	3 1.17	+26 50.7	1.556	2.432	14.2	18.1	10 8	2 56.80	+20 37.1	2.204	3.090	10.2	21.6
10 18	2 52.66	+27 33.1	1.483	2.417	10.5	17.8	10 18	2 49.06	+20 29.0	2.152	3.100	6.8	21.4
10 28	2 41.61	+27 57.8	1.434	2.403	6.8	17.6	10 28	2 39.98	+20 11.1	2.128	3.111	3.2	21.2
11 7	2 29.28	+28 2.9	1.411	2.388	5.2	17.5	11 7	2 30.46	+19 45.7	2.133	3.120	1.8	21.1
11 17	2 17.22	+27 50.3	1.416	2.374	7.7	17.6	11 17	2 21.40	+19 16.2	2.168	3.130	5.0	21.4
11 27	2 7.01	+27 25.8	1.447	2.359	11.7	17.8	11 27	2 13.70	+18 46.9	2.232	3.139	8.4	21.6
12 7	1 59.79	+26 57.8	1.501	2.344	15.6	18.0	12 7	2 7.95	+18 22.2	2.322	3.147	11.4	21.8
<b>449670</b>	2014 <i>KO</i> <sub>85</sub>		11 3.2 110°12	7°2/27.3 18			<b>84102</b>	2002 <i>RX</i> <sub>11</sub>		11 3.2 0°53	1°7/ 2.2 18		
9 28	2 58.41	-4 27.2	2.219	3.051	12.3	21.4	9 28	2 57.43	+14 52.7	1.185	2.048	18.8	19.0
10 8	2 53.42	-6 4.4	2.176	3.070	9.9	21.3	10 8	2 54.37	+14 10.1	1.121	2.046	14.4	18.7
10 18	2 46.74	-7 35.5	2.158	3.087	7.9	21.2	10 18	2 48.19	+13 13.4	1.077	2.045	9.2	18.4
10 28	2 39.02	-8 53.2	2.167	3.105	7.2	21.2	10 28	2 39.79	+12 8.1	1.055	2.044	3.6	18.1
11 7	2 31.04	-9 51.9	2.204	3.122	8.1	21.3	11 7	2 30.58	+11 2.2	1.058	2.045	3.3	18.1
11 17	2 23.59	-10 27.9	2.267	3.138	10.1	21.4	11 17	2 22.11	+10 4.7	1.085	2.046	8.9	18.4
11 27	2 17.40	-10 40.4	2.355	3.155	12.2	21.6	11 27	2 15.79	+9 23.8	1.135	2.049	14.1	18.7
12 7	2 12.94	-10 30.9	2.464	3.170	14.1	21.8	12 7	2 12.47	+9 3.9	1.205	2.052	18.4	19.0
<b>236858</b>	2007 <i>RM</i> <sub>180</sub>		11 3.2 83°25	2°1/ 4.7 18			<b>426381</b>	2013 <i>PG</i> <sub>16</sub>		11 3.2 69°06	1°2/ 4.0 16		
9 28	3 3.16	+21 59.7	1.776	2.586	15.8	20.5	9 28	3 3.50	+22 41.9	1.278	2.109	19.6	20.8
10 8	2 57.70	+22 2.5	1.713	2.603	12.3	20.3	10 8	2 58.46	+21 47.5	1.231	2.134	15.1	20.6
10 18	2 49.80	+21 51.5	1.671	2.620	8.3	20.1	10 18	2 50.42	+20 31.8	1.202	2.159	9.9	20.4
10 28	2 40.27	+21 27.1	1.655	2.637	4.1	19.9	10 28	2 40.50	+18 59.2	1.198	2.184	4.3	20.2
11 7	2 30.26	+20 52.3	1.667	2.654	2.4	19.8	11 7	2 30.24	+17 18.4	1.220	2.209	2.1	20.1
11 17	2 20.95	+20 11.9	1.707	2.670	6.0	20.1	11 17	2 21.11	+15 40.1	1.269	2.234	7.3	20.5
11 27	2 13.38	+19 32.1	1.774	2.686	9.9	20.3	11 27	2 14.31	+14 14.7	1.343	2.259	12.1	20.8
12 7	2 8.23	+18 58.6	1.865	2.703	13.3	20.6	12 7	2 10.47	+13 9.0	1.440	2.283	16.2	21.2
<b>224744</b>	2006 <i>DQ</i> <sub>50</sub>		11 3.2 225°51	2°7/31.9 18			<b>45781</b>	2000 <i>OD</i> <sub>12</sub>		11 3.2 217°46	2°5/ 5.3 18		
9 28	2 57.07	+8 5.7	2.405	3.238	11.5	20.1	9 28	2 59.70	+24 19.9	2.130	2.927	14.0	19.0
10 8	2 52.51	+7 31.1	2.326	3.235	8.7	19.9	10 8	2 54.94	+24 14.6	2.044	2.925	11.1	18.8
10 18	2 46.27	+6 53.6	2.272	3.232	5.6	19.7	10 18	2 48.04	+23 55.1	1.980	2.922	7.7	18.6
10 28	2 38.89	+6 16.8	2.246	3.230	3.0	19.5	10 28	2 39.64	+23 21.8	1.941	2.919	4.2	18.3
11 7	2 31.09	+5 44.5	2.249	3.227	3.5	19.5	11 7	2 30.66	+22 36.8	1.931	2.916	2.6	18.2
11 17	2 23.63	+5 20.3	2.282	3.224	6.3	19.7	11 17	2 22.10	+21 44.7	1.950	2.913	5.4	18.4
11 27	2 17.26	+5 7.2	2.341	3.220	9.4	19.9	11 27	2 14.91	+20 51.3	1.998	2.910	8.9	18.6
12 7	2 12.53	+5 6.5	2.425	3.217	12.0	20.1	12 7	2 9.78	+20 2.5	2.070	2.907	12.2	18.8
<b>234755</b>	2002 <i>OQ</i> <sub>5</sub>		11 3.2 51°57	6°1/ 9.6 17			<b>316412</b>	2010 <i>TT</i> <sub>100</sub>		11 3.2 314°56	1°7/ 1.9 18		
9 28	2 59.08	+37 1.0	2.197	2.935	15.4	20.3	9 28	2 58.09	+12 24.0	1.976	2.811	13.5	20.9
10 8	2 54.52	+37 1.1	2.121	2.945	13.0	20.1	10 8	2 53.69	+11 53.0	1.898	2.808	10.2	20.7
10 18	2 47.74	+36 39.4	2.064	2.956	10.3	20.0	10 18	2 47.21	+11 15.1	1.843	2.805	6.5	20.5
10 28	2 39.47	+35 54.4	2.031	2.968	7.8	19.9	10 28	2 39.31	+10 33.9	1.815	2.803	2.7	20.2
11 7	2 30.75	+34 47.6	2.024	2.979	6.2	19.8	11 7	2 30.88	+9 53.8	1.815	2.800	2.7	20.2
11 17	2 22.64	+33 23.7	2.046	2.991	6.7	19.8	11 17	2 22.87	+9 19.4	1.843	2.797	6.6	20.5
11 27	2 16.10	+31 50.1	2.095	3.002	8.9	20.0	11 27	2 16.21	+8 55.1	1.899	2.795	10.3	20.7
12 7	2 11.75	+30 15.4	2.170	3.014	11.4	20.2	12 7	2 11.54	+8 43.8	1.978	2.793	13.5	20.9
<b>319099</b>	2005 <i>WZ</i> <sub>165</sub>		11 3.2 269°16	1°6/ 1.9 18			<b>351331</b>	2004 <i>XH</i> <sub>29</sub>		11 3.2 215°40	3°8/ 5.5 18		
9 28	2 58.77	+11 31.7	2.144										

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11 3.2

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>477791</b>	2011 <i>BL</i> <sub>103</sub>	11	3.2	85°00	8°2/28.2	16	<b>451218</b>	2009 <i>XL</i> <sub>23</sub>	11	3.2	314°16	5°8/ 8.7	17
9 28	3 1.96	- 1 37.5	1.592	2.438	15.6	21.0	9 28	2 57.63	+35 7.1	2.186	2.936	15.1	20.7
10 8	2 56.54	- 3 28.2	1.559	2.465	12.3	20.9	10 8	2 53.63	+35 8.6	2.088	2.925	12.7	20.5
10 18	2 48.88	- 5 12.5	1.548	2.491	9.5	20.8	10 18	2 47.34	+34 49.4	2.011	2.913	10.0	20.3
10 28	2 39.87	- 6 40.7	1.564	2.516	8.2	20.7	10 28	2 39.43	+34 7.4	1.957	2.902	7.4	20.1
11 7	2 30.63	- 7 44.8	1.606	2.541	9.3	20.9	11 7	2 30.85	+33 3.4	1.929	2.891	5.9	20.0
11 17	2 22.26	- 8 20.5	1.673	2.566	11.8	21.1	11 17	2 22.69	+31 41.6	1.930	2.880	6.7	20.0
11 27	2 15.66	- 8 27.3	1.764	2.590	14.5	21.3	11 27	2 15.96	+30 9.3	1.958	2.869	9.2	20.2
12 7	2 11.37	- 8 8.2	1.874	2.614	16.9	21.5	12 7	2 11.42	+28 34.9	2.011	2.859	12.0	20.3
<b>299166</b>	2005 <i>GC</i> <sub>28</sub>	11	3.2	135°24	1°8/ 1.6	18	<b>134999</b>	2001 <i>HC</i> <sub>9</sub>	11	3.2	117°63	1°1/ 2.4	18
9 28	2 57.74	+14 36.1	1.923	2.756	13.9	20.4	9 28	3 0.87	+11 17.5	2.452	3.273	11.7	19.5
10 8	2 53.39	+13 23.7	1.849	2.759	10.5	20.2	10 8	2 55.35	+11 19.1	2.377	3.279	8.8	19.4
10 18	2 46.98	+12 0.3	1.800	2.762	6.6	20.0	10 18	2 48.08	+11 17.3	2.326	3.285	5.6	19.2
10 28	2 39.21	+10 31.3	1.777	2.765	2.7	19.7	10 28	2 39.63	+11 13.8	2.303	3.290	2.3	19.0
11 7	2 30.98	+ 9 3.2	1.783	2.767	3.0	19.8	11 7	2 30.77	+11 10.9	2.310	3.296	2.0	18.9
11 17	2 23.27	+ 7 43.3	1.819	2.770	6.9	20.0	11 17	2 22.29	+11 10.8	2.347	3.302	5.3	19.2
11 27	2 16.98	+ 6 37.8	1.882	2.772	10.7	20.3	11 27	2 14.96	+11 16.1	2.414	3.307	8.5	19.4
12 7	2 12.70	+ 5 50.3	1.968	2.775	13.9	20.5	12 7	2 9.34	+11 28.3	2.505	3.313	11.3	19.6
<b>196986</b>	2003 <i>UC</i> <sub>80</sub>	11	3.2	20°01	5°3/28.6	18	<b>267266</b>	2001 <i>QH</i> <sub>265</sub>	11	3.2	48°16	2°5/ 1.6	18
9 28	2 54.24	+ 7 23.8	1.849	2.701	13.5	18.9	9 28	2 59.40	+13 30.7	1.327	2.182	17.7	20.0
10 8	2 50.71	+ 5 2.4	1.789	2.707	10.3	18.7	10 8	2 55.33	+12 29.5	1.274	2.194	13.3	19.8
10 18	2 45.24	+ 2 34.5	1.754	2.713	7.1	18.5	10 18	2 48.50	+11 17.2	1.241	2.207	8.4	19.6
10 28	2 38.51	+ 0 10.0	1.748	2.720	5.3	18.4	10 28	2 39.84	+10 0.3	1.233	2.221	3.6	19.3
11 7	2 31.42	- 2 0.7	1.771	2.728	6.7	18.5	11 7	2 30.69	+ 8 47.3	1.250	2.235	3.9	19.4
11 17	2 24.85	- 3 49.1	1.822	2.736	9.7	18.7	11 17	2 22.39	+ 7 46.5	1.294	2.249	8.6	19.7
11 27	2 19.64	- 5 9.9	1.899	2.745	12.8	18.9	11 27	2 16.09	+ 7 4.1	1.362	2.264	13.1	20.0
12 7	2 16.33	- 6 2.0	1.998	2.754	15.5	19.2	12 7	2 12.49	+ 6 43.1	1.451	2.279	16.9	20.3
<b>516785</b>	2010 <i>AG</i> <sub>33</sub>	11	3.2	310°00	0°8/ 3.6	18	<b>409735</b>	2006 <i>CE</i> <sub>46</sub>	11	3.2	17°63	3°7/31.5	18
9 28	3 0.04	+17 44.3	1.419	2.261	17.5	21.4	9 28	2 56.97	+ 6 59.0	1.865	2.712	13.7	20.4
10 8	2 56.35	+17 45.9	1.329	2.240	13.7	21.2	10 8	2 52.84	+ 6 17.4	1.800	2.715	10.4	20.2
10 18	2 49.59	+17 35.0	1.259	2.219	9.0	20.8	10 18	2 46.66	+ 5 33.5	1.757	2.719	6.8	20.0
10 28	2 40.45	+17 12.5	1.212	2.199	3.8	20.5	10 28	2 39.11	+ 4 52.0	1.741	2.723	4.0	19.8
11 7	2 30.14	+16 41.5	1.190	2.180	2.1	20.3	11 7	2 31.10	+ 4 18.1	1.752	2.728	4.6	19.9
11 17	2 20.15	+16 7.6	1.195	2.160	7.6	20.6	11 17	2 23.59	+ 3 56.2	1.791	2.733	7.8	20.1
11 27	2 12.01	+15 38.0	1.224	2.142	12.9	20.9	11 27	2 17.47	+ 3 49.3	1.856	2.738	11.2	20.3
12 7	2 6.78	+15 19.0	1.274	2.124	17.5	21.1	12 7	2 13.35	+ 3 58.5	1.943	2.744	14.3	20.5
<b>446502</b>	2014 <i>KW</i> <sub>66</sub>	11	3.2	176°05	2°0/ 1.6	18	<b>241846</b>	2001 <i>TK</i> <sub>34</sub>	11	3.2	38°36	5°2/ 7.7	17
9 28	3 0.04	+10 54.7	2.203	3.031	12.5	22.2	9 28	3 0.63	+32 32.5	1.376	2.172	20.3	19.3
10 8	2 54.90	+10 22.9	2.127	3.033	9.5	22.0	10 8	2 56.26	+32 0.9	1.333	2.205	16.4	19.1
10 18	2 47.87	+ 9 46.0	2.074	3.034	6.1	21.8	10 18	2 48.98	+31 0.6	1.309	2.238	12.0	19.0
10 28	2 39.55	+ 9 7.4	2.049	3.035	2.7	21.6	10 28	2 39.95	+29 33.0	1.307	2.273	7.7	18.8
11 7	2 30.77	+ 8 31.1	2.053	3.036	2.9	21.6	11 7	2 30.69	+27 44.9	1.330	2.308	5.2	18.8
11 17	2 22.42	+ 8 1.2	2.087	3.036	6.3	21.8	11 17	2 22.59	+25 46.8	1.380	2.344	7.1	19.0
11 27	2 15.32	+ 7 41.2	2.148	3.036	9.7	22.0	11 27	2 16.76	+23 51.1	1.456	2.380	10.7	19.3
12 7	2 10.07	+ 7 33.4	2.234	3.035	12.6	22.2	12 7	2 13.75	+22 8.0	1.557	2.416	14.3	19.6
<b>403034</b>	2007 <i>YU</i> <sub>58</sub>	11	3.2	255°06	6°6/28.6	17	<b>409724</b>	2006 <i>BP</i> <sub>280</sub>	11	3.2	206°67	1°8/ 4.9	17
9 28	3 0.27	- 4 17.2	2.359	3.185	11.9	21.4	9 28	2 58.52	+22 34.6	2.561	3.356	12.0	22.1
10 8	2 55.07	- 5 12.5	2.272	3.164	9.6	21.2	10 8	2 53.70	+22 30.9	2.472	3.353	9.4	21.9
10 18	2 48.02	- 6 3.2	2.210	3.143	7.6	21.1	10 18	2 47.10	+22 16.4	2.406	3.350	6.4	21.7
10 28	2 39.64	- 6 43.8	2.175	3.122	6.6	21.0	10 28	2 39.28	+21 51.6	2.367	3.347	3.3	21.5
11 7	2 30.70	- 7 9.0	2.167	3.100	7.4	21.0	11 7	2 30.98	+21 18.5	2.358	3.344	2.0	21.4
11 17	2 22.03	- 7 15.4	2.188	3.077	9.6	21.1	11 17	2 23.01	+20 40.4	2.378	3.340	4.6	21.6
11 27	2 14.46	- 7 1.4	2.234	3.054	12.1	21.2	11 27	2 16.15	+20 1.6	2.428	3.337	7.7	21.8
12 7	2 8.62	- 6 27.8	2.302	3.031	14.4	21.3	12 7	2 10.97	+19 26.4	2.503	3.333	10.6	22.0
<b>371915</b>	2008 <i>DZ</i> <sub>71</sub>	11	3.2	324°79	4°1/31.6	18	<b>420909</b>	2013 <i>MK</i> <sub>4</sub>	11	3.2	131°68	2°2/ 4.6	17
9 28	2 55.51	+11 45.0	1.161	2.033	18.5	20.6	9 28	3 5.29	+22 35.7	1.518	2.334	17.8	21.3
10 8	2 53.09	+10 28.2	1.087	2.017	14.2	20.3	10 8	2 59.82	+22 26.0	1.450	2.343	13.9	21.1
10 18	2 47.52	+ 8 56.7	1.033	2.003	9.2	20.0	10 18	2 51.43	+21 59.0	1.401	2.352	9.4	20.8
10 28	2 39.61	+ 7 18.7	1.002	1.989	4.6	19.7	10 28	2 41.03	+21 15.2	1.378	2.360	4.6	20.6
11 7	2 30.70	+ 5 45.5	0.994	1.976	5.7	19.7	11 7	2 29.96	+20 18.8	1.381	2.368	2.5	20.4
11 17	2 22.36	+ 4 28.9	1.011	1.963	10.8	20.0	11 17	2 19.66	+19 16.5	1.412	2.376	6.8	20.7
11 27	2 16.07	+ 3 38.0	1.049	1.952	16.0	20.2	11 27	2 11.42	+18 16.8	1.469	2.383	11.4	21.0
12 7	2 12.81	+ 3 16.6	1.106	1.941	20.5	20.5	12 7	2 6.04	+17 27.2	1.549	2.390	15.3	21.3
<b>13430</b>	1999 <i>VM</i> <sub>36</sub>	11	3.2	21°26	0°1/ 3.3	18	<b>104547</b>	2000 <i>GV</i> <sub>61</sub>	11	3.2	335°35	0°5/ 3.6	17
9 28	2 56.77	+17 36.6	1.150	2.011	19.4	17.6	9 28	2 57.88	+17 8.0	1.984	2.810	13.8	19.3
10 8	2 53.78	+17 17.3	1.101	2.023	14.8	17.4	10 8	2 53.69	+17 9.3	1.899	2.802	10.6	19.1
10 18	2 47.70	+16 42.7	1.070	2.036	9.5	17.1	10 18	2 47.34	+17 1.9	1.835	2.793	6.9	18.9
10 28	2 39.56	+15 56.7	1.062	2.051	3.7	16.8	10 28	2 39.44	+16 46.9	1.798	2.786	2.9	18.6
11 7	2 30.82	+15 5.8	1.078	2.067	2.2	16.8	11 7	2 30.89	+16 27.0	1.789	2.778	1.6	18.5
11 17	2 22.99	+14 18.0	1.118	2.084	7.8	17.2	11 17	2 22.69	+16 5.7	1.808	2.771	5.7	18.8
11 27	2 17.38	+13 41.0	1.181	2.103	12.8	17.5	11 27	2 15.84	+15 47.5	1.855	2.765	9.6	19.0
12 7	2 14.70	+13 19.6	1.266	2.123	17.0	17.8	12 7	2 11.03	+15 36.3	1.925	2.759	13.1	19.2
<b>139211</b>	2001 <i>GN</i> <sub>2</sub>	11	3.2	263°30	12°4/22.6	17	<b>411509</b>	2011 <i>BG</i> <sub>15</sub>	11	3.2	287°49		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>103808</b>	2000 <i>DN</i> <sub>18</sub>		11 3.2 10 <sup>°</sup> 72	3 <sup>°</sup> 4/ 1.4	18		<b>43754</b>	1983 <i>AA</i>		11 3.2 294 <sup>°</sup> 27	16 <sup>°</sup> 7/15.2	18	
9 28	2 58.00	+10 30.1	1.127	1.998	19.0	18.6	9 28	3 8.95	+53 22.5	1.631	2.278	22.9	18.1
10 8	2 54.83	+9 50.2	1.071	2.000	14.5	18.4	10 8	3 5.24	+54 56.6	1.529	2.250	21.5	17.9
10 18	2 48.49	+9 2.4	1.034	2.003	9.3	18.1	10 18	2 56.61	+56 1.5	1.440	2.222	19.9	17.7
10 28	2 39.94	+8 13.1	1.019	2.006	4.4	17.8	10 28	2 43.65	+56 24.6	1.366	2.193	18.3	17.5
11 7	2 30.64	+7 30.5	1.028	2.011	4.8	17.9	11 7	2 28.25	+55 55.5	1.309	2.165	17.1	17.4
11 17	2 22.15	+7 1.9	1.061	2.017	9.8	18.2	11 17	2 13.19	+54 30.2	1.272	2.137	16.7	17.3
11 27	2 15.88	+6 52.6	1.116	2.024	14.7	18.5	11 27	2 1.36	+52 15.1	1.255	2.108	17.5	17.2
12 7	2 12.65	+7 4.2	1.191	2.032	18.9	18.8	12 7	1 54.52	+49 26.1	1.258	2.080	19.3	17.3
<b>91146</b>	1998 <i>OA</i> <sub>1</sub>		11 3.2 76 <sup>°</sup> 83	3 <sup>°</sup> 3/ 6.2	18		<b>315084</b>	2007 <i>DE</i> <sub>71</sub>		11 3.2 211 <sup>°</sup> 78	0 <sup>°</sup> 0/ 3.0	18	
9 28	2 59.22	+27 15.8	2.182	2.967	14.1	19.5	9 28	2 58.59	+16 31.3	2.555	3.368	11.5	22.2
10 8	2 54.46	+27 10.4	2.109	2.979	11.2	19.3	10 8	2 53.70	+16 13.9	2.466	3.363	8.8	22.0
10 18	2 47.65	+26 49.3	2.058	2.991	8.0	19.1	10 18	2 47.10	+15 48.9	2.401	3.358	5.6	21.8
10 28	2 39.50	+26 12.6	2.032	3.003	4.9	18.9	10 28	2 39.32	+15 18.0	2.364	3.352	2.2	21.5
11 7	2 30.91	+25 23.0	2.035	3.016	3.3	18.9	11 7	2 31.08	+14 43.9	2.357	3.346	1.4	21.5
11 17	2 22.85	+24 24.7	2.066	3.028	5.3	19.0	11 17	2 23.14	+14 10.1	2.381	3.340	4.9	21.7
11 27	2 16.19	+23 24.0	2.126	3.040	8.4	19.2	11 27	2 16.27	+13 40.4	2.433	3.333	8.1	21.9
12 7	2 11.55	+22 26.9	2.212	3.052	11.4	19.4	12 7	2 11.03	+13 18.0	2.510	3.326	11.0	22.1
<b>119530</b>	2001 <i>VE</i> <sub>1</sub>		11 3.2 351 <sup>°</sup> 88	10 <sup>°</sup> 4/ 1.9	18		<b>111728</b>	2002 <i>CZ</i> <sub>51</sub>		11 3.2 167 <sup>°</sup> 77	4 <sup>°</sup> 3/31.4	18	
9 28	3 14.34	-10 2.0	1.159	1.994	21.0	18.1	9 28	3 2.40	+8 13.0	1.575	2.420	15.8	20.5
10 8	3 7.48	-9 32.9	1.092	1.986	17.4	17.9	10 8	2 57.36	+7 5.6	1.508	2.423	12.1	20.2
10 18	2 56.76	-8 39.6	1.044	1.980	13.6	17.7	10 18	2 49.76	+5 52.4	1.464	2.426	7.9	20.0
10 28	2 43.23	-7 14.3	1.018	1.975	10.8	17.5	10 28	2 40.42	+4 40.2	1.446	2.428	4.6	19.8
11 7	2 28.63	-5 14.6	1.017	1.971	10.9	17.5	11 7	2 30.49	+3 36.9	1.455	2.429	5.4	19.9
11 17	2 14.94	-2 44.9	1.043	1.969	13.8	17.7	11 17	2 21.21	+2 49.1	1.491	2.430	9.3	20.1
11 27	2 3.94	+0 5.7	1.092	1.968	17.8	17.9	11 27	2 13.69	+2 21.7	1.552	2.431	13.2	20.4
12 7	1 56.67	+3 6.6	1.163	1.969	21.6	18.1	12 7	2 8.66	+2 15.9	1.634	2.432	16.7	20.6
<b>172776</b>	2004 <i>ER</i> <sub>31</sub>		11 3.2 224 <sup>°</sup> 86	3 <sup>°</sup> 2/ 5.9	18		<b>59401</b>	1999 <i>FC</i> <sub>32</sub>		11 3.2 269 <sup>°</sup> 17	0 <sup>°</sup> 7/ 2.8	18	
9 28	3 1.01	+26 28.6	2.324	3.105	13.4	20.8	9 28	3 2.41	+14 31.9	1.708	2.540	15.4	18.6
10 8	2 55.90	+26 31.9	2.229	3.097	10.8	20.6	10 8	2 57.57	+14 21.5	1.618	2.526	11.9	18.4
10 18	2 48.68	+26 21.0	2.155	3.089	7.8	20.4	10 18	2 50.09	+14 2.4	1.550	2.511	7.7	18.1
10 28	2 39.96	+25 55.5	2.108	3.080	4.7	20.2	10 28	2 40.64	+13 36.8	1.507	2.496	3.0	17.8
11 7	2 30.61	+25 16.7	2.090	3.071	3.2	20.1	11 7	2 30.30	+13 8.2	1.492	2.480	2.2	17.7
11 17	2 21.60	+24 28.2	2.101	3.061	5.3	20.2	11 17	2 20.32	+12 41.6	1.505	2.465	7.1	18.0
11 27	2 13.87	+23 35.5	2.141	3.051	8.5	20.4	11 27	2 11.93	+12 22.2	1.544	2.449	11.6	18.2
12 7	2 8.13	+22 44.5	2.207	3.041	11.6	20.5	12 7	2 6.01	+12 14.3	1.606	2.434	15.6	18.4
<b>188991</b>	2008 <i>GP</i> <sub>72</sub>		11 3.2 87 <sup>°</sup> 14	0 <sup>°</sup> 4/ 3.4	17		<b>20504</b>	1999 <i>RH</i> <sub>15</sub>		11 3.2 249 <sup>°</sup> 52	7 <sup>°</sup> 1/28.4	18	
9 28	3 4.93	+17 46.0	1.526	2.355	17.1	21.3	9 28	2 58.72	-0 48.4	1.842	2.686	13.9	18.0
10 8	2 59.27	+17 31.9	1.470	2.374	13.1	21.1	10 8	2 54.30	-2 14.9	1.771	2.678	11.1	17.8
10 18	2 50.91	+17 5.4	1.435	2.394	8.4	20.9	10 18	2 47.71	-3 39.6	1.724	2.669	8.4	17.6
10 28	2 40.78	+16 29.0	1.425	2.413	3.4	20.6	10 28	2 39.63	-4 54.5	1.703	2.660	7.1	17.5
11 7	2 30.19	+15 47.1	1.443	2.432	1.9	20.6	11 7	2 30.97	-5 52.2	1.709	2.651	8.3	17.6
11 17	2 20.45	+15 5.8	1.488	2.450	6.8	20.9	11 17	2 22.75	-6 27.0	1.741	2.642	10.9	17.7
11 27	2 12.72	+14 31.3	1.559	2.469	11.2	21.2	11 27	2 15.94	-6 36.3	1.797	2.633	13.9	17.9
12 7	2 7.67	+14 8.3	1.653	2.487	14.9	21.5	12 7	2 11.21	-6 21.0	1.873	2.623	16.6	18.0
<b>340980</b>	Bad Vilbel		11 3.2 105 <sup>°</sup> 97	4 <sup>°</sup> 1/31.6	18		<b>332606</b>	2008 <i>SC</i> <sub>287</sub>		11 3.2 153 <sup>°</sup> 90	1 <sup>°</sup> 9/ 5.1	17	
9 28	3 2.99	+6 9.1	1.701	2.543	15.0	20.9	9 28	2 57.77	+23 22.4	2.611	3.403	11.8	21.6
10 8	2 57.49	+5 28.6	1.644	2.555	11.5	20.7	10 8	2 53.08	+23 14.3	2.526	3.405	9.3	21.4
10 18	2 49.65	+4 46.6	1.608	2.568	7.6	20.5	10 18	2 46.70	+22 55.0	2.465	3.408	6.4	21.2
10 28	2 40.29	+4 8.3	1.599	2.580	4.5	20.4	10 28	2 39.18	+22 25.2	2.431	3.410	3.4	21.0
11 7	2 30.49	+3 39.3	1.618	2.592	5.1	20.4	11 7	2 31.24	+21 47.0	2.427	3.413	2.0	20.9
11 17	2 21.37	+3 23.7	1.664	2.604	8.5	20.7	11 17	2 23.65	+21 3.8	2.452	3.415	4.5	21.1
11 27	2 13.94	+3 24.4	1.736	2.615	12.1	20.9	11 27	2 17.16	+20 20.0	2.507	3.417	7.5	21.3
12 7	2 8.84	+3 41.6	1.830	2.626	15.2	21.2	12 7	2 12.31	+19 40.0	2.588	3.418	10.2	21.5
<b>191533</b>	2003 <i>UV</i> <sub>208</sub>		11 3.2 91 <sup>°</sup> 22	1 <sup>°</sup> 0/ 2.3	18		<b>409694</b>	2006 <i>BP</i> <sub>19</sub>		11 3.2 262 <sup>°</sup> 12	1 <sup>°</sup> 5/ 2.0	18	
9 28	2 55.88	+15 12.5	2.353	3.178	11.9	20.1	9 28	2 57.42	+12 40.6	2.228	3.058	12.3	21.5
10 8	2 51.68	+14 24.1	2.277	3.182	9.0	19.9	10 8	2 52.99	+12 8.9	2.149	3.056	9.4	21.3
10 18	2 45.78	+13 27.3	2.225	3.185	5.7	19.7	10 18	2 46.72	+11 31.0	2.093	3.055	5.9	21.1
10 28	2 38.77	+12 25.4	2.201	3.189	2.2	19.5	10 28	2 39.21	+10 49.8	2.065	3.053	2.4	20.9
11 7	2 31.39	+11 22.9	2.206	3.193	2.0	19.5	11 7	2 31.23	+10 9.3	2.065	3.051	2.4	20.9
11 17	2 24.41	+10 24.6	2.241	3.196	5.5	19.7	11 17	2 23.62	+9 33.7	2.095	3.049	5.9	21.1
11 27	2 18.56	+9 35.2	2.304	3.200	8.8	19.9	11 27	2 17.21	+9 7.1	2.153	3.047	9.3	21.3
12 7	2 14.36	+8 57.9	2.392	3.203	11.6	20.1	12 7	2 12.57	+8 51.9	2.234	3.045	12.3	21.5
<b>338480</b>	2003 <i>HD</i> <sub>2</sub>		11 3.2 293 <sup>°</sup> 59	1 <sup>°</sup> 9/ 2.9	17		<b>479566</b>	2014 <i>CF</i> <sub>7</sub>		11 3.2 338 <sup>°</sup> 52	4 <sup>°</sup> 7/ 5.7	18	
9 28	3 19.54	+5 50.5	1.059	1.902	22.0	20.5	9 28	3 1.41	+25 2.5	1.357	2.180	19.1	21.1
10 8	3 12.49	+7 9.4	0.980	1.891	17.3	20.2	10 8	2 57.62	+25 39.3	1.279	2.172	15.4	20.9
10 18	3 0.74	+8 39.1	0.920	1.881	11.4	19.8	10 18	2 50.52	+25 58.5	1.220	2.165	11.1	20.6
10 28	2 45.09	+10 19.6	0.883	1.871	4.8	19.4	10 28	2 40.90	+25 57.2	1.183	2.159	6.7	20.3
11 7	2 27.42	+12 7.3	0.873	1.861	3.6	19.3	11 7	2 30.16	+25 36.0	1.171	2.153	4.7	20.2
11 17	2 10.22	+13 57.1	0.890	1.851	10.4	19.6	11 17	2 19.95	+24 59.2	1.184	2.148	7.9	20.4
11 27	1 55.99	+15 46.1	0.931	1.841	16.8	20.0	11 27	2 11.87	+24 15.2	1.221	2.144	12.4	20.6
12 7	1 46.25	+17 33.3	0.994	1.832	22.1	20.3	12 7	2 6.98	+23 33.3	1.279	2.140	16.7	20.9
<b>226097</b>	2002 <i>OM</i> <												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>42891</b>	1999 <i>RH</i> <sub>169</sub>	11 3.2 84°42'	1°9'/ 2.0 18				<b>518895</b>	2010 <i>FR</i> <sub>38</sub>	11 3.3 3°59'	2°6'/ 5.6 18			
9 28	3 2.56	+14 22.1	1.404	2.248	17.5	18.6	9 28	2 56.81	+25 28.8	2.191	2.987	13.7	21.1
10 8	2 57.63	+13 27.0	1.349	2.264	13.2	18.4	10 8	2 52.73	+25 15.5	2.108	2.987	10.8	20.9
10 18	2 49.96	+12 20.5	1.316	2.280	8.3	18.2	10 18	2 46.67	+24 47.3	2.046	2.987	7.6	20.7
10 28	2 40.49	+11 8.3	1.307	2.295	3.3	17.9	10 28	2 39.25	+24 4.8	2.011	2.988	4.3	20.5
11 7	2 30.56	+9 58.0	1.325	2.311	3.3	18.0	11 7	2 31.33	+23 10.7	2.004	2.988	2.7	20.4
11 17	2 21.50	+8 57.5	1.370	2.326	8.1	18.3	11 17	2 23.83	+22 9.7	2.026	2.989	5.2	20.5
11 27	2 14.45	+8 13.3	1.440	2.341	12.6	18.6	11 27	2 17.62	+21 7.8	2.075	2.990	8.5	20.7
12 7	2 10.11	+7 48.6	1.531	2.356	16.3	18.9	12 7	2 13.34	+20 10.8	2.150	2.992	11.6	21.0
<b>325386</b>	2008 <i>SE</i> <sub>301</sub>	11 3.3 92°70'	2°3'/ 4.9 18				<b>441076</b>	2007 <i>RO</i> <sub>111</sub>	11 3.3 342°09'	2°7'/ 1.6 17			
9 28	3 3.20	+22 7.8	2.469	3.258	12.5	20.3	9 28	2 55.07	+12 11.8	1.309	2.174	17.3	20.7
10 8	2 57.26	+22 37.3	2.394	3.271	9.8	20.1	10 8	2 52.48	+11 29.6	1.235	2.161	13.2	20.4
10 18	2 49.42	+22 57.4	2.343	3.284	6.8	19.9	10 18	2 47.05	+10 37.0	1.181	2.149	8.5	20.1
10 28	2 40.27	+23 7.3	2.320	3.297	3.7	19.8	10 28	2 39.53	+9 39.3	1.151	2.139	3.7	19.8
11 7	2 30.66	+23 8.0	2.326	3.310	2.4	19.7	11 7	2 31.15	+8 44.1	1.145	2.129	4.0	19.8
11 17	2 21.45	+23 1.5	2.363	3.323	4.8	19.9	11 17	2 23.29	+7 59.2	1.163	2.121	9.0	20.1
11 27	2 13.50	+22 51.3	2.429	3.336	7.8	20.1	11 27	2 17.26	+7 31.5	1.205	2.114	13.8	20.3
12 7	2 7.41	+22 41.3	2.521	3.348	10.6	20.3	12 7	2 13.96	+7 24.3	1.268	2.108	18.1	20.6
<b>299637</b>	2006 <i>KX</i> <sub>28</sub>	11 3.3 107°76'	0°5'/ 2.9 15				<b>231443</b>	2007 <i>GH</i> <sub>40</sub>	11 3.3 92°46'	0°9'/ 2.7 18			
9 28	3 2.46	+15 22.1	2.006	2.827	13.9	22.1	9 28	3 2.53	+14 27.6	1.654	2.488	15.7	21.1
10 8	2 56.84	+14 59.7	1.943	2.845	10.5	21.9	10 8	2 57.39	+14 6.6	1.590	2.498	12.0	20.9
10 18	2 49.16	+14 29.1	1.904	2.862	6.7	21.7	10 18	2 49.77	+13 36.8	1.547	2.508	7.6	20.7
10 28	2 40.15	+13 52.8	1.891	2.880	2.5	21.5	10 28	2 40.48	+13 1.1	1.530	2.518	2.9	20.4
11 7	2 30.76	+13 14.7	1.908	2.896	1.8	21.4	11 7	2 30.64	+12 24.3	1.540	2.528	2.3	20.4
11 17	2 21.98	+12 39.4	1.954	2.913	5.9	21.7	11 17	2 21.47	+11 51.4	1.579	2.538	6.9	20.7
11 27	2 14.69	+12 11.1	2.028	2.928	9.5	22.0	11 27	2 14.04	+11 27.7	1.644	2.547	11.1	21.0
12 7	2 9.47	+11 53.2	2.127	2.944	12.6	22.2	12 7	2 9.05	+11 16.5	1.731	2.557	14.7	21.3
<b>69433</b>	1996 <i>HY</i> <sub>18</sub>	11 3.3 99°86'	0°4'/ 2.9 18				<b>143139</b>	2002 <i>XC</i> <sub>39</sub>	11 3.3 58°04'	1°6'/ 4.5 18			
9 28	2 56.51	+17 1.6	2.298	3.119	12.3	19.5	9 28	2 59.53	+21 41.7	1.882	2.696	14.9	20.1
10 8	2 52.24	+16 18.3	2.220	3.122	9.4	19.3	10 8	2 55.03	+21 27.1	1.806	2.700	11.6	19.9
10 18	2 46.22	+15 25.3	2.166	3.125	6.0	19.1	10 18	2 48.24	+20 58.5	1.752	2.703	7.8	19.6
10 28	2 39.02	+14 25.4	2.140	3.128	2.3	18.9	10 28	2 39.89	+20 17.2	1.723	2.707	3.7	19.4
11 7	2 31.43	+13 23.1	2.143	3.131	1.6	18.8	11 7	2 30.98	+19 26.8	1.722	2.710	2.0	19.3
11 17	2 24.25	+12 23.3	2.175	3.134	5.3	19.1	11 17	2 22.59	+18 32.4	1.750	2.714	5.7	19.5
11 27	2 18.24	+11 30.9	2.236	3.137	8.7	19.3	11 27	2 15.72	+17 40.5	1.805	2.718	9.7	19.8
12 7	2 13.95	+10 49.8	2.322	3.139	11.7	19.5	12 7	2 11.06	+16 56.8	1.884	2.722	13.1	20.0
<b>355481</b>	2007 <i>VD</i> <sub>335</sub>	11 3.3 90°99'	2°4'/ 5.1 18				<b>399397</b>	2001 <i>SB</i> <sub>306</sub>	11 3.3 60°80'	2°9'/ 5.3 18			
9 28	3 1.15	+24 2.4	1.921	2.723	15.1	21.1	9 28	3 1.72	+23 37.4	1.848	2.653	15.5	21.1
10 8	2 56.12	+23 49.8	1.852	2.736	11.9	20.9	10 8	2 56.75	+23 50.0	1.778	2.663	12.2	20.9
10 18	2 48.84	+23 21.7	1.805	2.750	8.1	20.7	10 18	2 49.38	+23 48.5	1.728	2.672	8.5	20.7
10 28	2 40.06	+22 39.2	1.784	2.764	4.3	20.5	10 28	2 40.35	+23 32.6	1.704	2.682	4.7	20.5
11 7	2 30.82	+21 45.7	1.791	2.777	2.5	20.5	11 7	2 30.73	+23 4.3	1.707	2.692	3.0	20.4
11 17	2 22.20	+20 46.4	1.826	2.790	5.6	20.7	11 17	2 21.69	+22 27.8	1.739	2.702	5.9	20.6
11 27	2 15.17	+19 48.0	1.890	2.803	9.3	20.9	11 27	2 14.28	+21 49.1	1.798	2.712	9.6	20.9
12 7	2 10.36	+18 56.6	1.978	2.816	12.6	21.2	12 7	2 9.21	+21 14.3	1.880	2.722	13.0	21.1
<b>331095</b>	2009 <i>WK</i> <sub>188</sub>	11 3.3 144°17'	0°2'/ 3.4 18				<b>243664</b>	1999 <i>VQ</i> <sub>80</sub>	11 3.3 358°34'	8°6'/ 2.4 18			
9 28	2 58.68	+16 50.8	2.441	3.255	11.9	21.3	9 28	3 19.59	- 8 45.5	1.316	2.134	19.9	19.4
10 8	2 53.83	+16 42.5	2.360	3.257	9.1	21.1	10 8	3 11.16	- 7 53.1	1.244	2.131	16.3	19.2
10 18	2 47.23	+16 26.7	2.304	3.260	5.9	20.9	10 18	2 59.04	- 6 38.0	1.192	2.128	12.3	19.0
10 28	2 39.43	+16 4.7	2.275	3.262	2.4	20.7	10 28	2 44.23	- 4 55.0	1.165	2.126	9.2	18.8
11 7	2 31.19	+15 39.2	2.275	3.264	1.3	20.6	11 7	2 28.44	- 2 44.0	1.167	2.126	9.0	18.8
11 17	2 23.32	+15 13.4	2.306	3.266	4.9	20.9	11 17	2 13.55	- 0 10.6	1.197	2.127	12.1	19.0
11 27	2 16.57	+14 51.0	2.365	3.268	8.2	21.1	11 27	2 1.27	+ 2 36.5	1.255	2.129	16.1	19.2
12 7	2 11.53	+14 35.1	2.449	3.270	11.0	21.3	12 7	1 52.59	+ 5 28.5	1.337	2.133	19.8	19.5
<b>229364</b>	2005 <i>QY</i> <sub>170</sub>	11 3.3 46°56'	1°7'/ 4.3 18				<b>269556</b>	2009 <i>WM</i> <sub>33</sub>	11 3.3 237°06'	0°6'/ 3.8 17			
9 28	3 1.99	+22 21.6	1.168	2.009	20.5	19.5	9 28	2 56.85	+19 11.2	2.654	3.461	11.2	21.3
10 8	2 57.63	+21 51.0	1.125	2.034	15.8	19.3	10 8	2 52.41	+18 48.8	2.561	3.453	8.7	21.1
10 18	2 50.09	+20 59.4	1.102	2.059	10.4	19.0	10 18	2 46.32	+18 17.0	2.493	3.446	5.7	20.9
10 28	2 40.55	+19 50.3	1.100	2.086	4.7	18.8	10 28	2 39.12	+17 37.5	2.452	3.438	2.4	20.7
11 7	2 30.62	+18 31.5	1.124	2.113	2.3	18.7	11 7	2 31.47	+16 52.9	2.441	3.430	1.2	20.6
11 17	2 21.86	+17 12.8	1.173	2.140	7.4	19.1	11 17	2 24.10	+16 7.0	2.460	3.421	4.5	20.8
11 27	2 15.51	+16 4.0	1.247	2.168	12.3	19.5	11 27	2 17.75	+15 24.0	2.508	3.413	7.7	21.0
12 7	2 12.23	+15 12.1	1.342	2.196	16.4	19.8	12 7	2 12.94	+14 47.6	2.582	3.404	10.5	21.2
<b>252684</b>	2002 <i>AE</i> <sub>169</sub>	11 3.3 338°61'	8°9'/ 28.7 18				<b>80435</b>	1999 <i>XQ</i> <sub>238</sub>	11 3.3 4°11'	7°6'/ 30.8 18			
9 28	3 1.07	- 8 25.6	1.843	2.674	14.5	20.2	9 28	3 1.52	+ 0 30.4	1.205	2.070	18.4	18.3
10 8	2 56.04	- 9 12.5	1.781	2.670	12.0	20.0	10 8	2 57.37	- 0 12.6	1.149	2.069	14.5	18.1
10 18	2 48.80	- 9 48.7	1.741	2.666	9.9	19.9	10 18	2 50.12	- 0 50.8	1.112	2.069	10.4	17.9
10 28	2 40.07	- 10 7.1	1.725	2.662	8.9	19.8	10 28	2 40.71	- 1 15.7	1.098	2.070	7.7	17.7
11 7	2 30.83	- 10 2.6	1.736	2.659	9.6	19.9	11 7	2 30.55	- 1 20.1	1.107	2.072	8.6	17.8
11 17	2 22.13	- 9 33.0	1.771	2.655	11.7	20.0	11 17	2 21.17	- 0 59.9	1.140	2.074	12.1	18.0
11 27	2 14.91	- 8 38.8	1.831	2.653	14.2	20.1	11 27	2 13.94	- 0 14.6	1.196	2.078	16.1	18.2
12 7	2 9.85	- 7 23.4	1.911	2.650	16.6	20.3	12 7	2 9.70	+ 0 52.6	1.270	2.082	19.8	18.5
<b>273570</b>	2007 <i>CK</i> <sub>2</sub>	11 3.3 148°64'	2°6'/ 1.4 18				<b>475904</b>	2007 <i>DN</i> <sub>70</sub>	11 3.3 334°68'	2°6'/ 1.8 1			



EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>122102</b>	2000 <i>HM</i> <sub>76</sub>		11 3.3 102°66'	3°9/31.9	18		<b>517053</b>	2013 <i>AC</i> <sub>105</sub>		11 3.3 258°62'	6°2/29.3	18	
9 28	3 3.72	+ 6 38.8	1.628	2.470	15.6	19.6	9 28	2 58.26	+ 0 24.8	1.959	2.802	13.3	20.9
10 8	2 58.22	+ 6 5.4	1.569	2.481	11.9	19.4	10 8	2 53.86	- 0 45.9	1.888	2.796	10.4	20.7
10 18	2 50.27	+ 5 30.2	1.531	2.492	7.8	19.2	10 18	2 47.43	- 1 55.2	1.840	2.789	7.7	20.5
10 28	2 40.67	+ 4 58.2	1.520	2.502	4.4	19.0	10 28	2 39.60	- 2 56.4	1.819	2.782	6.2	20.4
11 7	2 30.58	+ 4 34.7	1.536	2.512	4.9	19.0	11 7	2 31.25	- 3 43.0	1.825	2.775	7.2	20.4
11 17	2 21.19	+ 4 23.9	1.579	2.522	8.5	19.3	11 17	2 23.32	- 4 10.3	1.858	2.768	9.8	20.6
11 27	2 13.54	+ 4 28.7	1.648	2.532	12.3	19.5	11 27	2 16.70	- 4 15.8	1.915	2.761	12.7	20.8
12 7	2 8.34	+ 4 49.6	1.739	2.541	15.6	19.8	12 7	2 12.03	- 3 59.9	1.994	2.753	15.4	20.9
<b>517058</b>	2013 <i>AX</i> <sub>169</sub>		11 3.3 261°36'	6°3/29.0	18		<b>228560</b>	2001 <i>XZ</i> <sub>125</sub>		11 3.3 241°47'	2°4/1.6	18	
9 28	2 58.20	+ 0 49.0	1.945	2.789	13.3	22.3	9 28	3 1.79	+ 10 44.7	1.861	2.695	14.2	20.7
10 8	2 53.88	- 0 29.7	1.869	2.777	10.5	22.1	10 8	2 56.80	+ 10 10.9	1.775	2.684	10.9	20.5
10 18	2 47.47	- 1 48.2	1.816	2.765	7.8	22.0	10 18	2 49.47	+ 9 30.8	1.711	2.673	7.0	20.2
10 28	2 39.61	- 2 59.3	1.790	2.753	6.3	21.8	10 28	2 40.46	+ 8 48.1	1.674	2.661	3.2	20.0
11 7	2 31.18	- 3 56.0	1.791	2.741	7.3	21.9	11 7	2 30.73	+ 8 8.0	1.666	2.649	3.5	20.0
11 17	2 23.13	- 4 32.9	1.819	2.728	10.0	22.0	11 17	2 21.38	+ 7 35.4	1.686	2.636	7.4	20.2
11 27	2 16.39	- 4 47.0	1.872	2.716	13.0	22.2	11 27	2 13.48	+ 7 15.0	1.732	2.623	11.4	20.4
12 7	2 11.62	- 4 38.2	1.946	2.703	15.8	22.4	12 7	2 7.79	+ 7 9.6	1.802	2.610	14.9	20.6
<b>328866</b>	2009 <i>WZ</i> <sub>234</sub>		11 3.3 95°37'	2°0/4.9	18		<b>29428</b>	<i>Ettoremajorana</i>		11 3.3 253°72'	10°1/25.8	17	
9 28	2 59.95	+ 22 15.7	2.379	3.176	12.7	21.1	9 28	2 59.95	+ 3 37.6	1.178	2.048	18.5	18.3
10 8	2 54.92	+ 22 24.1	2.300	3.182	9.9	21.0	10 8	2 56.36	+ 0 20.2	1.115	2.038	14.5	18.0
10 18	2 48.00	+ 22 21.9	2.244	3.189	6.8	20.8	10 18	2 49.60	- 3 8.3	1.074	2.029	11.1	17.8
10 28	2 39.79	+ 22 9.4	2.215	3.195	3.6	20.6	10 28	2 40.58	- 6 28.8	1.060	2.019	10.2	17.7
11 7	2 31.11	+ 21 48.1	2.215	3.201	2.2	20.5	11 7	2 30.68	- 9 21.2	1.070	2.008	12.5	17.8
11 17	2 22.82	+ 21 21.2	2.245	3.208	4.8	20.7	11 17	2 21.46	- 11 30.1	1.105	1.998	16.4	18.0
11 27	2 15.76	+ 20 52.8	2.304	3.214	8.0	20.9	11 27	2 14.37	- 12 48.9	1.159	1.987	20.4	18.2
12 7	2 10.53	+ 20 27.3	2.388	3.220	10.9	21.1	12 7	2 10.28	- 13 19.8	1.230	1.976	23.8	18.4
<b>284417</b>	2006 <i>UY</i> <sub>329</sub>		11 3.3 306°72'	1°1/2.6	18		<b>458055</b>	2009 <i>WU</i> <sub>260</sub>		11 3.3 335°81'	0°2/3.4	16	
9 28	2 59.04	+ 15 44.9	1.357	2.207	17.6	21.2	9 28	2 56.84	+ 17 0.3	1.914	2.744	14.1	21.5
10 8	2 55.59	+ 15 9.3	1.275	2.192	13.6	20.9	10 8	2 53.04	+ 16 49.0	1.828	2.734	10.8	21.3
10 18	2 49.13	+ 14 19.4	1.213	2.177	8.8	20.6	10 18	2 47.05	+ 16 28.0	1.765	2.725	7.0	21.0
10 28	2 40.42	+ 13 18.8	1.174	2.163	3.4	20.3	10 28	2 39.51	+ 15 59.0	1.728	2.716	2.8	20.8
11 7	2 30.70	+ 12 14.2	1.160	2.148	2.8	20.2	11 7	2 31.31	+ 15 25.4	1.718	2.707	1.6	20.6
11 17	2 21.44	+ 11 13.8	1.173	2.135	8.3	20.5	11 17	2 23.48	+ 14 51.7	1.736	2.699	5.9	20.9
11 27	2 14.09	+ 10 26.2	1.209	2.121	13.5	20.7	11 27	2 17.00	+ 14 23.0	1.781	2.692	9.9	21.1
12 7	2 9.61	+ 9 57.0	1.267	2.108	18.0	21.0	12 7	2 12.59	+ 14 3.4	1.850	2.685	13.5	21.4
<b>115160</b>	2003 <i>SF</i> <sub>76</sub>		11 3.3 334°28'	0°5/2.9	18		<b>399961</b>	2006 <i>BR</i> <sub>47</sub>		11 3.3 43°81'	4°0/6.8	18	
9 28	2 58.10	+ 16 43.0	1.161	2.021	19.3	20.0	9 28	2 59.19	+ 29 15.8	2.134	2.912	14.6	20.3
10 8	2 55.24	+ 16 16.7	1.089	2.011	14.9	19.7	10 8	2 54.70	+ 29 14.3	2.051	2.914	11.8	20.1
10 18	2 49.07	+ 15 34.4	1.035	2.002	9.7	19.4	10 18	2 48.04	+ 28 55.6	1.989	2.915	8.7	19.9
10 28	2 40.41	+ 14 39.6	1.004	1.993	3.8	19.1	10 28	2 39.88	+ 28 18.9	1.952	2.917	5.6	19.7
11 7	2 30.71	+ 13 39.0	0.996	1.985	2.6	19.0	11 7	2 31.16	+ 27 26.3	1.942	2.919	4.0	19.6
11 17	2 21.63	+ 12 41.7	1.013	1.978	8.7	19.3	11 17	2 22.91	+ 26 22.3	1.962	2.921	5.7	19.7
11 27	2 14.73	+ 11 56.8	1.052	1.972	14.3	19.6	11 27	2 16.09	+ 25 13.5	2.009	2.923	8.8	19.9
12 7	2 11.02	+ 11 30.7	1.111	1.966	19.0	19.9	12 7	2 11.37	+ 24 6.8	2.082	2.926	11.8	20.1
<b>8674</b>	1991 <i>VA</i> <sub>1</sub>		11 3.3 79°11'	1°7/5.0	18		<b>79390</b>	1997 <i>GK</i> <sub>14</sub>		11 3.3 63°88'	6°3/6.6	18	
9 28	2 57.20	+ 23 45.3	2.373	3.170	12.7	17.6	9 28	3 13.94	+ 28 9.6	1.379	2.169	20.5	18.0
10 8	2 52.77	+ 23 18.0	2.297	3.180	9.9	17.5	10 8	3 6.71	+ 29 17.8	1.334	2.203	16.6	17.8
10 18	2 46.57	+ 22 37.5	2.245	3.190	6.8	17.3	10 18	2 56.00	+ 30 4.8	1.309	2.236	12.2	17.7
10 28	2 39.21	+ 21 45.3	2.219	3.200	3.4	17.1	10 28	2 43.00	+ 30 26.1	1.307	2.270	8.2	17.5
11 7	2 31.48	+ 20 44.8	2.223	3.210	1.9	17.0	11 7	2 29.41	+ 30 21.3	1.331	2.303	6.3	17.5
11 17	2 24.21	+ 19 40.5	2.256	3.220	4.7	17.2	11 17	2 17.05	+ 29 55.5	1.381	2.336	8.2	17.7
11 27	2 18.15	+ 18 38.0	2.318	3.229	7.9	17.4	11 27	2 7.38	+ 29 17.7	1.458	2.368	11.7	18.0
12 7	2 13.84	+ 17 42.3	2.406	3.239	10.8	17.6	12 7	2 1.19	+ 28 37.7	1.557	2.400	15.1	18.3
<b>189959</b>	2003 <i>UQ</i> <sub>65</sub>		11 3.3 49°85'	4°8/30.1	18		<b>410665</b>	2008 <i>SG</i> <sub>161</sub>		11 3.3 343°35'	4°2/6.1	17	
9 28	2 56.21	+ 3 31.8	2.082	2.926	12.6	19.9	9 28	3 2.51	+ 26 35.9	2.197	2.978	14.1	20.2
10 8	2 52.06	+ 2 26.4	2.024	2.936	9.6	19.7	10 8	2 57.30	+ 27 21.3	2.109	2.975	11.4	20.0
10 18	2 46.12	+ 1 21.1	1.990	2.945	6.7	19.5	10 18	2 49.81	+ 27 54.5	2.044	2.972	8.4	19.8
10 28	2 39.03	+ 0 21.6	1.983	2.955	4.9	19.5	10 28	2 40.63	+ 28 13.3	2.004	2.969	5.5	19.6
11 7	2 31.60	- 0 26.6	2.005	2.966	5.7	19.5	11 7	2 30.70	+ 28 17.5	1.992	2.967	4.2	19.5
11 17	2 24.65	- 0 59.3	2.053	2.976	8.2	19.7	11 17	2 21.08	+ 28 8.7	2.009	2.964	6.0	19.6
11 27	2 18.93	- 1 14.0	2.128	2.986	11.1	19.9	11 27	2 12.83	+ 27 51.2	2.054	2.963	8.9	19.8
12 7	2 14.99	- 1 10.5	2.225	2.997	13.6	20.1	12 7	2 6.71	+ 27 30.6	2.124	2.961	11.9	20.0
<b>428657</b>	2008 <i>GB</i> <sub>78</sub>		11 3.3 252°04'	2°8/1.7	18		<b>470061</b>	2006 <i>SX</i> <sub>228</sub>		11 3.3 139°00'	3°3/5.4	16	
9 28	3 3.34	+ 10 3.6	1.625	2.465	15.7	22.0	9 28	3 5.86	+ 24 40.3	1.641	2.444	17.2	21.9
10 8	2 58.34	+ 9 35.3	1.541	2.453	12.0	21.7	10 8	3 0.27	+ 24 48.5	1.569	2.452	13.7	21.7
10 18	2 50.63	+ 9 1.1	1.479	2.441	7.8	21.4	10 18	2 51.84	+ 24 39.6	1.516	2.459	9.6	21.5
10 28	2 40.95	+ 8 25.0	1.443	2.429	3.6	21.2	10 28	2 41.42	+ 24 12.8	1.489	2.466	5.4	21.3
11 7	2 30.41	+ 7 52.4	1.433	2.416	3.9	21.2	11 7	2 30.28	+ 23 30.6	1.488	2.472	3.4	21.2
11 17	2 20.29	+ 7 28.6	1.452	2.403	8.3	21.4	11 17	2 19.82	+ 22 38.2	1.515	2.479	6.6	21.4
11 27	2 11.84	+ 7 18.4	1.496	2.390	12.7	21.6	11 27	2 11.30	+ 21 43.7	1.569	2.484	10.8	21.6
12 7	2 5.94	+ 7 24.3	1.562	2.376	16.5	21.8	12 7	2 5.54	+ 20 54.6	1.647	2.489	14.5	21.9
<b>167339</b>	2003 <i>UN</i> <sub>308</sub>		11 3.3 254°40'	0°8/3.9	1								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$		
<b>517097</b>	2013 <i>CP</i> <sub>222</sub>	11	3.3	160°56'	3°3'	6.5	18	<b>139481</b>	2001 <i>PB</i> <sub>3</sub>	11	3.3	99°73'	2°2'	5.3	18
9 28	3 0.58	+28 45.6	2.440	3.208	13.2	21.6	9 28	3 2.01	+24 55.7	2.185	2.974	13.9	20.2		
10 8	2 55.42	+28 29.3	2.354	3.214	10.6	21.5	10 8	2 56.47	+24 33.1	2.121	2.997	10.9	20.0		
10 18	2 48.34	+27 57.1	2.291	3.218	7.7	21.3	10 18	2 48.95	+23 55.9	2.079	3.020	7.5	19.8		
10 28	2 39.97	+27 9.0	2.255	3.223	4.8	21.1	10 28	2 40.18	+23 5.3	2.064	3.042	4.0	19.7		
11 7	2 31.17	+26 7.4	2.248	3.227	3.3	21.0	11 7	2 31.10	+22 4.7	2.078	3.064	2.3	19.6		
11 17	2 22.82	+24 56.9	2.270	3.230	5.0	21.1	11 17	2 22.64	+20 59.2	2.122	3.085	5.0	19.8		
11 27	2 15.76	+23 43.3	2.322	3.233	7.9	21.3	11 27	2 15.64	+19 55.1	2.195	3.106	8.4	20.0		
12 7	2 10.60	+22 32.9	2.401	3.235	10.8	21.5	12 7	2 10.65	+18 57.7	2.294	3.126	11.3	20.3		
<b>282714</b>	2006 <i>BW</i> <sub>244</sub>	11	3.3	312°17'	1°2'	2.4	17	<b>239983</b>	2001 <i>RC</i> <sub>118</sub>	11	3.3	59°81'	2°8'	1.2	18
9 28	2 57.66	+13 24.1	1.955	2.790	13.6	21.5	9 28	2 58.61	+10 30.6	1.804	2.646	14.3	20.5		
10 8	2 53.64	+13 3.0	1.865	2.775	10.4	21.2	10 8	2 54.21	+9 40.7	1.741	2.655	10.8	20.3		
10 18	2 47.46	+12 34.5	1.797	2.759	6.7	21.0	10 18	2 47.68	+8 44.8	1.701	2.664	6.9	20.1		
10 28	2 39.71	+12 1.2	1.756	2.744	2.7	20.7	10 28	2 39.73	+7 48.0	1.687	2.673	3.4	19.9		
11 7	2 31.28	+11 27.2	1.743	2.730	2.3	20.6	11 7	2 31.35	+6 56.0	1.701	2.682	3.8	19.9		
11 17	2 23.16	+10 57.0	1.757	2.715	6.4	20.9	11 17	2 23.53	+6 14.3	1.743	2.692	7.4	20.2		
11 27	2 16.34	+10 35.3	1.799	2.701	10.4	21.1	11 27	2 17.20	+5 47.0	1.811	2.701	11.1	20.4		
12 7	2 11.54	+10 25.2	1.864	2.687	13.9	21.3	12 7	2 12.96	+5 36.2	1.902	2.711	14.2	20.7		
<b>70451</b>	1999 <i>TQ</i> <sub>18</sub>	11	3.3	58°79'	1°3'	4.0	18	<b>207202</b>	2005 <i>EZ</i> <sub>53</sub>	11	3.3	312°62'	7°2'	28.4	18
9 28	3 4.40	+19 8.3	1.505	2.332	17.4	19.0	9 28	2 57.30	+0 31.6	1.722	2.574	14.4	20.0		
10 8	2 58.98	+19 11.1	1.454	2.356	13.4	18.8	10 8	2 53.38	-1 6.7	1.658	2.570	11.3	19.8		
10 18	2 50.85	+19 0.9	1.423	2.379	8.7	18.6	10 18	2 47.24	-2 44.3	1.617	2.566	8.5	19.7		
10 28	2 40.96	+18 39.1	1.417	2.403	3.8	18.4	10 28	2 39.60	-4 12.5	1.602	2.562	7.2	19.6		
11 7	2 30.63	+18 9.4	1.438	2.427	2.0	18.3	11 7	2 31.42	-5 22.7	1.613	2.559	8.4	19.7		
11 17	2 21.18	+17 37.0	1.487	2.451	6.5	18.7	11 17	2 23.73	-6 8.8	1.651	2.556	11.1	19.8		
11 27	2 13.74	+17 8.2	1.561	2.476	10.8	19.0	11 27	2 17.51	-6 27.8	1.711	2.552	14.2	20.0		
12 7	2 8.99	+16 47.9	1.659	2.500	14.5	19.3	12 7	2 13.43	-6 20.6	1.792	2.549	17.0	20.2		
<b>160596</b>	1999 <i>RT</i> <sub>152</sub>	11	3.3	54°83'	7°9'	8.8	18	<b>91729</b>	1999 <i>TG</i> <sub>163</sub>	11	3.3	88°41'	2°9'	31.7	18
9 28	3 6.19	+34 24.5	1.539	2.308	19.6	19.1	9 28	2 57.15	+9 37.6	2.163	2.999	12.4	19.7		
10 8	3 0.94	+35 17.3	1.481	2.327	16.5	19.0	10 8	2 52.76	+8 37.2	2.098	3.009	9.4	19.5		
10 18	2 52.44	+35 45.9	1.440	2.346	13.0	18.8	10 18	2 46.60	+7 32.0	2.058	3.019	6.0	19.3		
10 28	2 41.69	+35 45.6	1.422	2.365	9.7	18.7	10 28	2 39.28	+6 26.8	2.045	3.029	3.2	19.2		
11 7	2 30.18	+35 16.2	1.427	2.385	8.0	18.6	11 7	2 31.62	+5 26.9	2.061	3.038	3.8	19.2		
11 17	2 19.56	+34 22.6	1.459	2.405	8.8	18.7	11 17	2 24.42	+4 37.3	2.106	3.048	6.8	19.4		
11 27	2 11.26	+33 14.0	1.515	2.425	11.5	18.9	11 27	2 18.46	+4 1.7	2.179	3.058	10.0	19.7		
12 7	2 6.12	+32 1.4	1.595	2.445	14.5	19.2	12 7	2 14.25	+3 42.0	2.274	3.067	12.7	19.9		
<b>368835</b>	2006 <i>DM</i> <sub>30</sub>	11	3.3	250°80'	1°1'	4.3	17	<b>80166</b>	1999 <i>TP</i> <sub>291</sub>	11	3.3	291°26'	5°5'	30.5	18
9 28	2 58.37	+20 17.4	2.472	3.276	12.1	22.2	9 28	2 58.69	+7 9.4	1.431	2.289	16.4	19.7		
10 8	2 53.75	+20 8.5	2.378	3.267	9.4	22.0	10 8	2 55.10	+5 45.5	1.350	2.272	12.7	19.4		
10 18	2 47.32	+19 49.6	2.308	3.258	6.3	21.8	10 18	2 48.73	+4 13.4	1.291	2.254	8.6	19.1		
10 28	2 39.61	+19 21.7	2.265	3.249	2.9	21.5	10 28	2 40.30	+2 41.4	1.256	2.236	5.7	18.9		
11 7	2 31.37	+18 47.2	2.252	3.240	1.5	21.4	11 7	2 30.97	+1 19.7	1.248	2.218	6.9	18.9		
11 17	2 23.42	+18 9.4	2.268	3.231	4.8	21.6	11 17	2 22.06	+0 17.4	1.265	2.201	10.9	19.1		
11 27	2 16.57	+17 32.7	2.313	3.221	8.1	21.8	11 27	2 14.89	-0 18.9	1.305	2.183	15.3	19.3		
12 7	2 11.43	+17 1.3	2.384	3.212	11.1	22.0	12 7	2 10.35	-0 27.3	1.364	2.166	19.2	19.5		
<b>26670</b>	2001 <i>BC</i> <sub>74</sub>	11	3.3	198°17'	3°8'	5.8	18	<b>91643</b>	1999 <i>TX</i> <sub>91</sub>	11	3.3	146°07'	0°7'	2.8	18
9 28	3 5.02	+25 49.3	2.099	2.882	14.6	18.6	9 28	3 1.33	+13 9.7	2.302	3.122	12.3	18.7		
10 8	2 59.27	+26 20.5	2.011	2.880	11.8	18.4	10 8	2 55.95	+13 8.3	2.224	3.125	9.4	18.5		
10 18	2 51.09	+26 38.5	1.945	2.878	8.5	18.2	10 18	2 48.69	+13 1.8	2.170	3.129	6.0	18.3		
10 28	2 41.15	+26 41.5	1.905	2.875	5.3	18.0	10 28	2 40.13	+12 51.9	2.144	3.132	2.3	18.1		
11 7	2 30.45	+26 29.8	1.894	2.872	3.8	17.9	11 7	2 31.10	+12 41.2	2.147	3.135	1.8	18.1		
11 17	2 20.12	+26 6.1	1.911	2.869	6.0	18.1	11 17	2 22.46	+12 32.4	2.180	3.138	5.4	18.3		
11 27	2 11.28	+25 35.4	1.957	2.866	9.3	18.3	11 27	2 15.03	+12 28.5	2.242	3.140	8.8	18.5		
12 7	2 4.71	+25 3.9	2.027	2.862	12.5	18.5	12 7	2 9.43	+12 31.9	2.329	3.143	11.8	18.7		
<b>390686</b>	2002 <i>UH</i> <sub>51</sub>	11	3.3	148°23'	4°8'	7.6	18	<b>249311</b>	2008 <i>UM</i> <sub>128</sub>	11	3.3	50°47'	1°0'	4.3	18
9 28	3 2.82	+32 3.3	2.196	2.953	14.8	21.1	9 28	2 56.04	+21 29.3	2.418	3.224	12.2	20.4		
10 8	2 57.42	+32 4.3	2.115	2.960	12.2	20.9	10 8	2 51.91	+20 58.4	2.339	3.229	9.5	20.2		
10 18	2 49.76	+31 46.5	2.054	2.967	9.2	20.7	10 18	2 46.06	+20 15.8	2.284	3.234	6.3	20.0		
10 28	2 40.56	+31 8.7	2.018	2.974	6.4	20.6	10 28	2 39.09	+19 23.3	2.255	3.240	2.9	19.8		
11 7	2 30.84	+30 12.6	2.010	2.980	4.8	20.5	11 7	2 31.73	+18 24.5	2.256	3.245	1.4	19.7		
11 17	2 21.65	+29 2.5	2.031	2.985	6.0	20.6	11 17	2 24.77	+17 23.8	2.287	3.250	4.7	20.0		
11 27	2 14.00	+27 45.3	2.081	2.990	8.8	20.8	11 27	2 18.95	+16 26.4	2.346	3.256	7.9	20.2		
12 7	2 8.55	+26 28.8	2.156	2.995	11.7	21.0	12 7	2 14.81	+15 36.7	2.432	3.262	10.8	20.4		
<b>450739</b>	2007 <i>GD</i> <sub>66</sub>	11	3.3	182°64'	0°3'	3.1	18	<b>320029</b>	2007 <i>DO</i> <sub>94</sub>	11	3.3	17°97'	4°0'	31.2	18
9 28	3 0.35	+14 39.4	2.435	3.251	11.9	21.4	9 28	2 58.03	+5 25.0	2.035	2.877	12.9	20.5		
10 8	2 55.15	+14 38.7	2.352	3.251	9.1	21.2	10 8	2 53.60	+4 41.6	1.966	2.878	9.9	20.3		
10 18	2 48.16	+14 32.1	2.294	3.251	5.8	21.0	10 18	2 47.24	+3 56.9	1.920	2.879	6.6	20.1		
10 28	2 39.92	+14 21.2	2.263	3.251	2.3	20.8	10 28	2 39.57	+3 15.8	1.901	2.880	4.2	20.0		
11 7	2 31.21	+14 8.1	2.262	3.250	1.5	20.7	11 7	2 31.45	+2 43.2	1.910	2.881	4.8	20.0		
11 17	2 22.83	+13 55.7	2.291	3.250	5.1	21.0	11 17	2 23.77	+2 22.9	1.947	2.883	7.8	20.2		
11 27	2 15.59	+13 47.0	2.349	3.249	8.4	21.2	11 27	2 17.37	+2 17.9	2.010	2.884	10.9	20.4		
12 7	2 10.07	+13 44.8	2.432	3.249	11.3	21.4	12 7	2 12.85	+2 28.7	2.096	2.886	13.8	20.6		
<b>756</b>	Lilliana	11	3.3	189°38'	1°5'	1.5	18	<b>98909</b>	2001 <i>BR</i> <sub>60</sub>	11	3.3	279°0			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>142688</b>	2002 <i>TU</i> <sub>238</sub>		11 3.3 355°72	1°0/ 2.8 18			<b>221474</b>	2006 <i>BP</i> <sub>157</sub>		11 3.3 268°32	0°7/ 2.7 17		
9 28	3 3.92	+11 39.4	1.680	2.515	15.5	19.4	9 28	2 57.87	+14 35.9	2.356	3.178	12.0	20.6
10 8	2 58.65	+11 57.8	1.605	2.513	11.9	19.1	10 8	2 53.42	+14 12.9	2.264	3.167	9.2	20.4
10 18	2 50.79	+12 12.4	1.551	2.512	7.6	18.9	10 18	2 47.15	+13 42.6	2.195	3.155	5.9	20.2
10 28	2 41.06	+12 24.5	1.523	2.511	3.0	18.6	10 28	2 39.59	+13 7.3	2.154	3.143	2.3	19.9
11 7	2 30.57	+12 36.5	1.522	2.510	2.3	18.6	11 7	2 31.49	+12 30.4	2.143	3.130	1.8	19.9
11 17	2 20.56	+12 50.7	1.550	2.510	6.9	18.9	11 17	2 23.68	+11 55.7	2.161	3.118	5.4	20.1
11 27	2 12.23	+13 10.1	1.605	2.510	11.2	19.1	11 27	2 16.96	+11 27.3	2.207	3.106	8.9	20.3
12 7	2 6.39	+13 37.0	1.682	2.511	14.9	19.4	12 7	2 11.96	+11 8.4	2.278	3.094	11.9	20.5
<b>50903</b>	2000 <i>GM</i> <sub>50</sub>		11 3.3 344°16	0°5/ 2.9 18			<b>88614</b>	2001 <i>RP</i> <sub>1</sub>		11 3.3 76°76	0°8/ 2.8 18		
9 28	2 59.96	+15 17.7	1.759	2.593	15.0	19.0	9 28	3 3.26	+16 7.2	1.489	2.325	17.1	20.0
10 8	2 55.53	+15 3.9	1.682	2.590	11.5	18.8	10 8	2 58.09	+15 30.6	1.435	2.345	13.0	19.8
10 18	2 48.71	+14 41.1	1.627	2.588	7.4	18.6	10 18	2 50.29	+14 42.3	1.403	2.365	8.2	19.6
10 28	2 40.22	+14 11.5	1.598	2.586	2.9	18.3	10 28	2 40.80	+13 46.3	1.396	2.385	3.1	19.3
11 7	2 31.07	+13 39.2	1.596	2.585	1.9	18.2	11 7	2 30.87	+12 48.9	1.416	2.404	2.3	19.3
11 17	2 22.40	+13 8.9	1.622	2.583	6.5	18.5	11 17	2 21.80	+11 56.7	1.464	2.424	7.2	19.7
11 27	2 15.27	+12 45.6	1.675	2.582	10.7	18.8	11 27	2 14.69	+11 16.1	1.537	2.443	11.6	20.0
12 7	2 10.43	+12 33.2	1.751	2.581	14.3	19.0	12 7	2 10.18	+10 51.0	1.633	2.462	15.2	20.3
<b>348723</b>	2006 <i>DN</i> <sub>106</sub>		11 3.3 144°19	1°0/ 2.6 18			<b>112255</b>	2002 <i>LJ</i> <sub>12</sub>		11 3.3 140°55	1°6/ 2.3 17		
9 28	3 1.62	+14 37.3	1.984	2.808	13.9	21.9	9 28	3 3.74	+14 12.5	1.658	2.490	15.8	20.4
10 8	2 56.40	+14 6.4	1.911	2.815	10.5	21.7	10 8	2 58.36	+13 28.9	1.591	2.499	12.0	20.2
10 18	2 49.05	+13 27.1	1.863	2.822	6.7	21.5	10 18	2 50.47	+12 35.3	1.546	2.507	7.6	20.0
10 28	2 40.29	+12 42.4	1.841	2.829	2.6	21.3	10 28	2 40.90	+11 35.9	1.527	2.515	3.0	19.7
11 7	2 31.05	+11 56.8	1.848	2.835	2.1	21.2	11 7	2 30.79	+10 36.7	1.537	2.523	2.8	19.7
11 17	2 22.33	+11 15.0	1.884	2.841	6.2	21.5	11 17	2 21.34	+9 44.1	1.574	2.530	7.3	20.0
11 27	2 15.05	+10 42.0	1.948	2.846	9.9	21.8	11 27	2 13.66	+9 4.1	1.639	2.536	11.5	20.3
12 7	2 9.86	+10 20.9	2.036	2.851	13.2	22.0	12 7	2 8.44	+8 40.2	1.726	2.542	15.1	20.5
<b>285866</b>	2001 <i>KV</i> <sub>9</sub>		11 3.3 235°67	5°5/ 29.8 17			<b>268870</b>	2006 <i>YC</i> <sub>53</sub>		11 3.3 204°41	1°4/ 2.3 18		
9 28	3 2.25	- 5 4.3	2.811	3.623	10.6	20.9	9 28	3 2.57	+13 38.7	1.927	2.753	14.1	22.1
10 8	2 56.31	- 5 28.0	2.726	3.610	8.5	20.8	10 8	2 57.31	+13 4.5	1.844	2.749	10.8	21.9
10 18	2 48.78	- 5 45.8	2.667	3.597	6.6	20.6	10 18	2 49.78	+12 21.8	1.784	2.744	6.9	21.7
10 28	2 40.16	- 5 53.9	2.636	3.584	5.6	20.5	10 28	2 40.66	+11 33.8	1.751	2.739	2.8	21.4
11 7	2 31.11	- 5 49.2	2.635	3.570	6.1	20.5	11 7	2 30.91	+10 45.3	1.747	2.733	2.6	21.4
11 17	2 22.35	- 5 29.8	2.662	3.556	7.9	20.6	11 17	2 21.59	+10 1.6	1.772	2.727	6.7	21.6
11 27	2 14.55	- 4 55.2	2.718	3.542	10.1	20.8	11 27	2 13.74	+9 27.8	1.824	2.720	10.7	21.9
12 7	2 8.27	- 4 6.4	2.798	3.527	12.1	20.9	12 7	2 8.05	+9 7.3	1.901	2.712	14.1	22.1
<b>422180</b>	2014 <i>RA</i> <sub>22</sub>		11 3.3 76°54	2°2/ 5.4 18			<b>521828</b>	2015 <i>TG</i> <sub>359</sub>		11 3.3 266°95	4°8/ 30.1 18		
9 28	2 58.88	+24 50.0	2.183	2.978	13.7	20.6	9 28	2 56.83	+ 2 48.3	2.233	3.073	12.0	21.3
10 8	2 54.20	+24 27.4	2.113	2.993	10.8	20.4	10 8	2 52.57	+ 1 48.5	2.160	3.069	9.3	21.1
10 18	2 47.57	+23 50.3	2.066	3.009	7.4	20.2	10 18	2 46.56	+ 0 48.7	2.111	3.064	6.6	21.0
10 28	2 39.69	+22 59.7	2.046	3.024	4.0	20.0	10 28	2 39.34	- 0 5.9	2.090	3.060	4.8	20.8
11 7	2 31.43	+21 59.3	2.054	3.040	2.3	19.9	11 7	2 31.69	- 0 50.1	2.096	3.055	5.6	20.9
11 17	2 23.71	+20 53.9	2.091	3.055	5.0	20.1	11 17	2 24.40	- 1 19.6	2.131	3.051	8.1	21.0
11 27	2 17.37	+19 49.8	2.157	3.070	8.3	20.4	11 27	2 18.25	- 1 31.9	2.191	3.046	10.9	21.2
12 7	2 12.95	+18 52.3	2.249	3.085	11.3	20.6	12 7	2 13.79	- 1 26.5	2.274	3.042	13.5	21.4
<b>40035</b>	1998 <i>KO</i> <sub>15</sub>		11 3.3 310°26	2°5/ 2.2 18			<b>219239</b>	1999 <i>WB</i> <sub>24</sub>		11 3.3 153°35	0°0/ 3.2 16		
9 28	3 4.74	+ 8 23.2	1.552	2.394	16.2	18.3	9 28	3 4.24	+17 49.7	1.874	2.690	14.9	21.9
10 8	2 59.62	+ 8 33.3	1.468	2.381	12.5	18.1	10 8	2 58.55	+17 21.3	1.801	2.698	11.4	21.7
10 18	2 51.62	+ 8 42.3	1.406	2.368	8.2	17.8	10 18	2 50.52	+16 41.2	1.750	2.706	7.4	21.5
10 28	2 41.46	+ 8 52.8	1.368	2.355	3.7	17.5	10 28	2 40.92	+15 51.9	1.726	2.714	2.9	21.3
11 7	2 30.32	+ 9 7.9	1.358	2.343	3.6	17.5	11 7	2 30.79	+14 57.9	1.731	2.720	1.7	21.2
11 17	2 19.56	+ 9 30.2	1.375	2.331	8.1	17.7	11 17	2 21.25	+14 4.7	1.765	2.726	6.1	21.5
11 27	2 10.55	+10 2.2	1.418	2.319	12.7	17.9	11 27	2 13.32	+13 18.4	1.827	2.731	10.2	21.7
12 7	2 4.24	+10 45.1	1.483	2.308	16.7	18.2	12 7	2 7.69	+12 43.6	1.914	2.735	13.6	22.0
<b>108125</b>	2001 <i>GW</i> <sub>6</sub>		11 3.3 143°56	5°2/ 29.8 18			<b>490622</b>	2010 <i>AV</i> <sub>28</sub>		11 3.3 321°95	3°4/ 31.8 17		
9 28	2 59.70	+ 1 57.1	2.181	3.016	12.4	20.3	9 28	2 57.36	+ 6 39.3	2.048	2.890	12.8	20.9
10 8	2 54.64	+ 0 47.8	2.121	3.025	9.6	20.2	10 8	2 53.25	+ 6 10.4	1.964	2.877	9.8	20.7
10 18	2 47.79	- 0 20.6	2.084	3.034	6.9	20.0	10 18	2 47.15	+ 5 39.5	1.904	2.864	6.5	20.5
10 28	2 39.77	- 1 22.2	2.076	3.042	5.2	19.9	10 28	2 39.62	+ 5 10.6	1.869	2.851	3.7	20.3
11 7	2 31.40	- 2 11.6	2.096	3.050	6.1	20.0	11 7	2 31.51	+ 4 48.1	1.863	2.839	4.2	20.3
11 17	2 23.51	- 2 44.5	2.144	3.057	8.5	20.2	11 17	2 23.73	+ 4 35.8	1.885	2.828	7.4	20.5
11 27	2 16.87	- 2 58.8	2.218	3.064	11.2	20.4	11 27	2 17.15	+ 4 36.7	1.933	2.816	10.8	20.7
12 7	2 12.03	- 2 54.4	2.315	3.070	13.6	20.5	12 7	2 12.46	+ 4 51.9	2.004	2.806	13.9	20.8
<b>38482</b>	1999 <i>TC</i> <sub>100</sub>		11 3.3 5°76	6°4/ 29.4 18			<b>522025</b>	2015 <i>XD</i> <sub>405</sub>		11 3.3 7°24	3°2/ 6.1 17		
9 28	2 56.57	+ 0 24.1	1.822	2.672	13.8	17.6	9 28	2 57.86	+26 38.8	2.181	2.971	13.9	21.4
10 8	2 52.68	- 0 43.3	1.761	2.672	10.8	17.4	10 8	2 53.65	+26 36.6	2.098	2.971	11.1	21.2
10 18	2 46.74	- 1 48.2	1.723	2.673	8.0	17.3	10 18	2 47.39	+26 19.3	2.036	2.972	8.0	21.0
10 28	2 39.41	- 2 43.9	1.710	2.674	6.4	17.2	10 28	2 39.71	+25 46.8	2.000	2.973	4.8	20.8
11 7	2 31.61	- 3 23.9	1.724	2.676	7.3	17.3	11 7	2 31.49	+25 1.3	1.992	2.974	3.2	20.7
11 17	2 24.31	- 3 43.8	1.764	2.678	9.9	17.4	11 17	2 23.69	+24 6.9	2.013	2.975	5.3	20.8
11 27	2 18.39	- 3 41.6	1.828	2.681	12.9	17.6	11 27	2 17.21	+23 9.6	2.062	2.977	8.5	21.0
12 7	2 14.47	- 3 18.3	1.913	2.684	15.6	17.8	12 7	2 12.71	+22 15.4	2.136	2.979	11.6	21.2
<b>422214</b>	2014 <i>RJ</i> <sub>56</sub>		11 3.3 83°86	1°9/ 1.5 18			<b>78269</b>	2002 <i>PM</i> <sub>27</sub>		11 3.3 267°24	7°7/		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>49254</b>	1998 <i>TQ</i> <sub>25</sub>		11 3.3 79°07	0°2/ 3.5 18			<b>52908</b>	1998 <i>SH</i> <sub>83</sub>		11 3.3 85°44	1°4/ 2.4 17		
9 28	3 0.22	+18 14.3	1.815	2.639	15.0	19.8	9 28	3 4.38	+15 13.9	1.529	2.363	16.8	19.7
10 8	2 55.59	+17 49.2	1.744	2.646	11.5	19.6	10 8	2 58.79	+14 22.6	1.479	2.388	12.7	19.5
10 18	2 48.67	+17 12.3	1.696	2.654	7.4	19.4	10 18	2 50.67	+13 20.4	1.452	2.413	8.0	19.3
10 28	2 40.21	+16 25.9	1.674	2.661	3.0	19.1	10 28	2 40.96	+12 12.3	1.450	2.438	3.1	19.1
11 7	2 31.24	+15 34.6	1.679	2.669	1.6	19.1	11 7	2 30.92	+11 5.3	1.475	2.462	2.7	19.1
11 17	2 22.83	+14 43.8	1.713	2.676	6.0	19.4	11 17	2 21.79	+10 6.2	1.529	2.486	7.3	19.4
11 27	2 15.97	+13 59.6	1.775	2.683	10.1	19.6	11 27	2 14.60	+9 21.2	1.609	2.509	11.5	19.7
12 7	2 11.35	+13 26.4	1.860	2.691	13.6	19.9	12 7	2 9.96	+8 53.3	1.711	2.532	15.0	20.0
<b>214039</b>	2004 <i>EY</i> <sub>54</sub>		11 3.3 188°79	1°9/ 5.2 18			<b>510146</b>	2010 <i>VO</i> <sub>108</sub>		11 3.3 340°66	3°0/ 1.6 18		
9 28	3 0.22	+24 9.2	2.549	3.335	12.2	20.7	9 28	2 58.19	+12 17.0	1.141	2.009	19.0	21.7
10 8	2 55.08	+23 47.4	2.458	3.334	9.6	20.5	10 8	2 55.28	+11 28.6	1.074	2.002	14.6	21.4
10 18	2 48.15	+23 12.7	2.391	3.332	6.6	20.3	10 18	2 49.12	+10 28.2	1.026	1.995	9.4	21.1
10 28	2 39.99	+22 25.9	2.352	3.330	3.5	20.1	10 28	2 40.58	+9 22.2	1.000	1.989	4.2	20.8
11 7	2 31.37	+21 29.8	2.342	3.328	2.0	20.0	11 7	2 31.08	+8 19.5	0.998	1.983	4.5	20.8
11 17	2 23.13	+20 28.5	2.362	3.325	4.6	20.2	11 17	2 22.24	+7 29.5	1.021	1.979	9.9	21.1
11 27	2 16.04	+19 27.3	2.413	3.321	7.8	20.4	11 27	2 15.58	+6 59.6	1.065	1.975	15.1	21.4
12 7	2 10.69	+18 31.1	2.489	3.317	10.7	20.6	12 7	2 12.02	+6 53.3	1.129	1.972	19.6	21.6
<b>381677</b>	2009 <i>BJ</i> <sub>81</sub>		11 3.3 224°04	3°4/ 1.1 17			<b>132520</b>	2002 <i>JQ</i> <sub>51</sub>		11 3.3 127°97	1°5/ 4.5 18		
9 28	3 11.10	+9 14.6	1.810	2.629	15.2	22.5	9 28	3 1.18	+22 13.7	1.926	2.734	14.8	20.5
10 8	3 4.18	+8 23.4	1.712	2.613	11.8	22.3	10 8	2 56.25	+21 46.8	1.852	2.742	11.6	20.3
10 18	2 54.45	+7 24.9	1.638	2.594	7.7	22.0	10 18	2 49.08	+21 5.2	1.799	2.749	7.7	20.1
10 28	2 42.62	+6 23.7	1.591	2.574	4.0	21.7	10 28	2 40.40	+20 10.5	1.773	2.757	3.6	19.9
11 7	2 29.79	+5 26.2	1.574	2.552	4.6	21.7	11 7	2 31.22	+19 6.7	1.775	2.764	1.8	19.8
11 17	2 17.30	+4 39.0	1.587	2.528	8.7	21.9	11 17	2 22.60	+17 59.8	1.806	2.770	5.6	20.0
11 27	2 6.43	+4 7.8	1.628	2.502	13.0	22.1	11 27	2 15.51	+16 56.6	1.865	2.777	9.5	20.3
12 7	1 58.12	+3 55.6	1.692	2.474	16.8	22.3	12 7	2 10.63	+16 2.8	1.949	2.783	12.9	20.5
<b>277517</b>	2005 <i>WC</i> <sub>203</sub>		11 3.3 47°57	8°7/30.9 18			<b>45600</b>	2000 <i>DD</i> <sub>4</sub>		11 3.3 83°38	5°0/ 6.8 18		
9 28	3 6.37	-4 38.3	1.353	2.199	17.9	19.8	9 28	3 5.89	+28 54.6	1.901	2.677	16.2	18.0
10 8	3 0.55	-5 9.1	1.309	2.213	14.3	19.6	10 8	3 0.05	+29 31.5	1.834	2.694	13.1	17.8
10 18	2 51.91	-5 28.5	1.285	2.228	10.9	19.5	10 18	2 51.63	+29 51.4	1.788	2.711	9.8	17.7
10 28	2 41.46	-5 29.1	1.285	2.244	8.8	19.4	10 28	2 41.43	+29 52.1	1.766	2.728	6.6	17.5
11 7	2 30.59	-5 6.3	1.310	2.260	9.4	19.5	11 7	2 30.62	+29 34.1	1.772	2.744	5.0	17.5
11 17	2 20.68	-4 18.9	1.360	2.276	12.1	19.7	11 17	2 20.44	+29 0.9	1.806	2.761	6.6	17.6
11 27	2 12.90	-3 9.0	1.433	2.293	15.3	19.9	11 27	2 12.04	+28 18.9	1.867	2.777	9.6	17.8
12 7	2 7.92	-1 41.2	1.526	2.310	18.3	20.2	12 7	2 6.16	+27 35.4	1.953	2.793	12.7	18.0
<b>28594</b>	2000 <i>EF</i> <sub>134</sub>		11 3.3 111°32	2°1/ 1.8 18			<b>259471</b>	2003 <i>SD</i> <sub>154</sub>		11 3.3 21°07	5°4/31.9 18		
9 28	3 2.60	+9 43.8	2.148	2.973	12.9	18.4	9 28	3 3.30	+5 5.1	1.186	2.049	18.8	19.8
10 8	2 56.89	+9 24.2	2.085	2.989	9.8	18.2	10 8	2 58.86	+4 33.2	1.129	2.052	14.5	19.5
10 18	2 49.26	+9 1.1	2.046	3.005	6.2	18.0	10 18	2 51.22	+4 1.0	1.092	2.055	9.8	19.3
10 28	2 40.40	+8 37.7	2.034	3.020	2.9	17.8	10 28	2 41.34	+3 35.6	1.078	2.059	5.9	19.1
11 7	2 31.17	+8 17.5	2.052	3.035	3.0	17.9	11 7	2 30.70	+3 23.5	1.088	2.064	6.5	19.2
11 17	2 22.48	+8 3.6	2.100	3.049	6.3	18.1	11 17	2 20.88	+3 29.7	1.122	2.069	10.7	19.4
11 27	2 15.13	+7 59.1	2.176	3.063	9.6	18.3	11 27	2 13.30	+3 56.3	1.179	2.075	15.2	19.7
12 7	2 9.72	+8 5.3	2.276	3.077	12.4	18.6	12 7	2 8.81	+4 42.4	1.256	2.081	19.2	20.0
<b>291153</b>	2005 <i>YM</i> <sub>284</sub>		11 3.3 263°96	0°5/ 2.9 17			<b>63179</b>	2000 <i>YZ</i> <sub>77</sub>		11 3.3 10°85	6°6/29.8 18		
9 28	2 58.64	+15 18.6	2.381	3.200	12.0	21.9	9 28	2 58.43	-1 6.8	1.840	2.685	13.9	18.9
10 8	2 54.04	+14 59.0	2.284	3.185	9.2	21.7	10 8	2 54.10	-1 59.6	1.779	2.686	11.0	18.7
10 18	2 47.60	+14 31.7	2.211	3.169	5.9	21.5	10 18	2 47.67	-2 48.0	1.741	2.688	8.2	18.5
10 28	2 39.82	+13 58.8	2.166	3.153	2.3	21.2	10 28	2 39.85	-3 25.8	1.728	2.690	6.6	18.4
11 7	2 31.46	+13 23.4	2.149	3.138	1.6	21.2	11 7	2 31.56	-3 47.3	1.742	2.692	7.4	18.5
11 17	2 23.36	+12 49.2	2.163	3.121	5.3	21.4	11 17	2 23.78	-3 49.1	1.782	2.695	9.9	18.7
11 27	2 16.34	+12 20.4	2.205	3.105	8.9	21.6	11 27	2 17.41	-3 30.0	1.846	2.698	12.8	18.8
12 7	2 11.05	+12 0.4	2.272	3.088	11.9	21.8	12 7	2 13.08	-2 51.2	1.932	2.702	15.5	19.0
<b>191443</b>	2003 <i>SG</i> <sub>192</sub>		11 3.3 57°84	2°0/ 4.8 18			<b>375644</b>	2008 <i>YF</i> <sub>99</sub>		11 3.3 16°63	0°5/ 3.8 17		
9 28	3 0.72	+21 21.0	2.228	3.030	13.3	19.7	9 28	2 56.37	+18 23.5	2.495	3.308	11.7	21.4
10 8	2 55.69	+21 35.7	2.151	3.037	10.4	19.5	10 8	2 52.17	+18 7.0	2.413	3.309	9.0	21.2
10 18	2 48.64	+21 40.1	2.097	3.043	7.1	19.3	10 18	2 46.30	+17 41.8	2.356	3.311	5.9	21.0
10 28	2 40.21	+21 34.3	2.069	3.050	3.6	19.1	10 28	2 39.30	+17 9.5	2.326	3.312	2.4	20.8
11 7	2 31.26	+21 19.8	2.070	3.057	2.1	19.1	11 7	2 31.88	+16 32.9	2.325	3.314	1.2	20.7
11 17	2 22.73	+20 59.7	2.101	3.064	5.1	19.3	11 17	2 24.80	+15 55.5	2.353	3.316	4.7	21.0
11 27	2 15.49	+20 38.1	2.159	3.070	8.4	19.5	11 27	2 18.79	+15 21.5	2.411	3.318	7.9	21.2
12 7	2 10.19	+20 19.3	2.243	3.077	11.4	19.7	12 7	2 14.39	+14 54.2	2.493	3.320	10.7	21.4
<b>342767</b>	2008 <i>WU</i> <sub>97</sub>		11 3.3 22°77	9°7/30.4 18			<b>475268</b>	2005 <i>WN</i> <sub>121</sub>		11 3.3 343°00	0°9/ 3.9 18		
9 28	2 59.21	-2 38.3	0.994	1.873	20.3	19.3	9 28	2 53.21	+20 15.4	1.103	1.966	19.9	20.5
10 8	2 55.76	-3 33.8	0.964	1.888	16.1	19.1	10 8	2 51.79	+19 50.1	1.029	1.951	15.6	20.2
10 18	2 49.09	-4 17.8	0.951	1.906	12.1	18.9	10 18	2 47.07	+19 3.2	0.973	1.938	10.4	19.8
10 28	2 40.38	-4 39.9	0.960	1.926	9.8	18.9	10 28	2 39.85	+17 57.0	0.938	1.926	4.5	19.5
11 7	2 31.26	-4 33.5	0.990	1.947	10.6	19.0	11 7	2 31.53	+16 38.5	0.925	1.915	2.2	19.3
11 17	2 23.28	-3 56.8	1.042	1.969	13.7	19.2	11 17	2 23.78	+15 18.1	0.937	1.906	8.3	19.6
11 27	2 17.68	-2 52.4	1.114	1.994	17.3	19.5	11 27	2 18.19	+14 7.6	0.970	1.899	14.1	19.9
12 7	2 15.12	-1 26.2	1.204	2.019	20.5	19.8	12 7	2 15.79	+13 15.8	1.023	1.893	19.1	20.2
<b>123684</b>	2000 <i>YK</i> <sub>95</sub>		11 3.3 105°47	4°4/30.7 18			<b>264479</b>	2001 <i>MK</i> <sub>21</sub>		11 3.3 161°73	2°7/ 1.5 17		
9 28	2 59.14	+											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>204224</b>	2004 CZ <sub>92</sub>	11	3.3 320°01	2°5/ 5.1	18		<b>265440</b>	2004 XA <sub>26</sub>	11	3.3 295°73	9°1/12.9	17	
9 28	3 2.03	+22 40.8	1.896	2.702	15.1	20.5	9 28	3 2.26	+45 54.5	2.360	3.029	16.0	20.0
10 8	2 57.13	+22 52.4	1.815	2.701	11.9	20.3	10 8	2 57.61	+46 25.3	2.261	3.018	14.3	19.9
10 18	2 49.82	+22 50.8	1.755	2.701	8.2	20.1	10 18	2 50.28	+46 32.8	2.179	3.007	12.4	19.7
10 28	2 40.77	+22 35.7	1.721	2.701	4.4	19.8	10 28	2 41.01	+46 12.3	2.118	2.995	10.6	19.6
11 7	2 31.04	+22 9.1	1.714	2.700	2.7	19.7	11 7	2 30.93	+45 22.1	2.081	2.984	9.4	19.5
11 17	2 21.75	+21 34.9	1.736	2.700	5.9	19.9	11 17	2 21.31	+44 4.1	2.069	2.973	9.2	19.5
11 27	2 14.01	+20 58.8	1.786	2.700	9.7	20.2	11 27	2 13.39	+42 24.8	2.084	2.963	10.4	19.5
12 7	2 8.57	+20 26.6	1.859	2.699	13.2	20.4	12 7	2 8.01	+40 33.3	2.123	2.952	12.2	19.6
<b>18418</b>	Ujibe	11	3.3 25°82	0°1/ 3.3	18		<b>107943</b>	2001 FO <sub>115</sub>	11	3.3 54°60	0°6/ 3.7	18	
9 28	3 6.28	+12 20.4	0.958	1.825	21.9	16.3	9 28	3 7.54	+17 49.4	1.172	2.015	20.4	18.6
10 8	3 1.79	+13 7.4	0.912	1.836	16.8	16.0	10 8	3 1.80	+17 45.3	1.135	2.046	15.5	18.4
10 18	2 53.39	+13 48.8	0.882	1.849	10.8	15.7	10 18	2 52.84	+17 27.0	1.117	2.077	10.0	18.2
10 28	2 42.26	+14 24.7	0.874	1.863	4.2	15.4	10 28	2 41.88	+16 57.0	1.121	2.109	4.1	17.9
11 7	2 30.24	+14 56.3	0.889	1.879	2.5	15.4	11 7	2 30.58	+16 20.6	1.152	2.141	2.1	17.9
11 17	2 19.37	+15 26.1	0.928	1.895	8.9	15.8	11 17	2 20.55	+15 44.7	1.208	2.173	7.6	18.3
11 27	2 11.35	+15 58.2	0.989	1.913	14.5	16.2	11 27	2 13.06	+15 16.5	1.288	2.205	12.4	18.7
12 7	2 7.10	+16 35.9	1.070	1.932	19.1	16.5	12 7	2 8.76	+15 0.5	1.390	2.237	16.4	19.0
<b>104473</b>	2000 GV <sub>18</sub>	11	3.3 355°18	5°3/ 6.4	17		<b>481659</b>	2007 VR <sub>270</sub>	11	3.3 327°47	4°0/ 1.3	18	
9 28	3 2.41	+27 17.9	1.833	2.625	16.1	18.6	9 28	2 58.23	+7 21.9	1.358	2.220	16.9	20.6
10 8	2 57.78	+28 18.6	1.751	2.621	13.2	18.4	10 8	2 55.14	+7 1.6	1.269	2.192	13.1	20.3
10 18	2 50.45	+29 5.5	1.689	2.617	9.9	18.2	10 18	2 49.07	+6 38.0	1.200	2.166	8.8	20.0
10 28	2 41.10	+29 35.3	1.652	2.615	6.7	18.0	10 28	2 40.67	+6 16.4	1.155	2.140	4.7	19.7
11 7	2 30.82	+29 46.8	1.641	2.613	5.3	17.9	11 7	2 31.09	+6 2.8	1.135	2.116	5.2	19.6
11 17	2 20.89	+29 41.6	1.657	2.612	7.1	18.0	11 17	2 21.77	+6 2.8	1.139	2.092	9.8	19.8
11 27	2 12.60	+29 24.7	1.700	2.612	10.3	18.2	11 27	2 14.19	+6 20.4	1.166	2.070	14.7	20.0
12 7	2 6.84	+29 2.9	1.766	2.612	13.5	18.4	12 7	2 9.42	+6 57.3	1.213	2.049	19.1	20.2
<b>412444</b>	2014 FU <sub>49</sub>	11	3.3 216°80	8°2/ 9.6	18		<b>451353</b>	2010 WF <sub>47</sub>	11	3.3 4°79	2°5/ 5.4	18	
9 28	3 7.34	+38 40.0	2.109	2.826	16.5	21.4	9 28	2 57.62	+24 48.3	1.877	2.684	15.2	20.5
10 8	3 1.60	+39 32.0	2.016	2.821	14.3	21.2	10 8	2 53.76	+24 31.4	1.797	2.684	12.0	20.2
10 18	2 52.95	+40 3.7	1.942	2.814	11.8	21.0	10 18	2 47.63	+23 57.8	1.739	2.684	8.4	20.0
10 28	2 42.10	+40 10.1	1.891	2.808	9.6	20.9	10 28	2 39.91	+23 8.2	1.706	2.685	4.5	19.8
11 7	2 30.24	+39 48.9	1.866	2.801	8.2	20.8	11 7	2 31.61	+22 6.3	1.700	2.686	2.6	19.7
11 17	2 18.76	+39 2.0	1.867	2.793	8.7	20.8	11 17	2 23.80	+20 57.7	1.723	2.688	5.7	19.9
11 27	2 9.04	+37 55.6	1.895	2.785	10.6	20.9	11 27	2 17.49	+19 49.6	1.772	2.690	9.5	20.1
12 7	2 2.04	+36 39.3	1.947	2.777	13.1	21.0	12 7	2 13.37	+18 48.8	1.846	2.692	13.0	20.3
<b>210579</b>	1999 VS <sub>65</sub>	11	3.3 310°91	0°2/ 3.2	18		<b>260203</b>	2004 RB <sub>179</sub>	11	3.4 6°24	1°2/ 4.4	18	
9 28	2 58.06	+17 34.2	1.592	2.430	16.1	20.6	9 28	2 57.25	+21 45.6	1.999	2.813	14.1	19.9
10 8	2 54.53	+17 2.6	1.504	2.414	12.4	20.3	10 8	2 53.28	+21 11.8	1.919	2.813	11.0	19.6
10 18	2 48.37	+16 17.0	1.437	2.398	8.1	20.1	10 18	2 47.22	+20 23.4	1.861	2.814	7.3	19.4
10 28	2 40.27	+15 19.9	1.395	2.383	3.2	19.7	10 28	2 39.74	+19 22.7	1.830	2.815	3.3	19.2
11 7	2 31.31	+14 16.8	1.379	2.368	2.0	19.6	11 7	2 31.74	+18 13.9	1.826	2.815	1.6	19.1
11 17	2 22.75	+13 14.6	1.391	2.354	7.1	19.9	11 17	2 24.21	+17 2.9	1.852	2.816	5.5	19.3
11 27	2 15.81	+12 21.0	1.428	2.340	11.8	20.1	11 27	2 18.04	+15 56.4	1.905	2.818	9.3	19.6
12 7	2 11.35	+11 42.0	1.487	2.326	15.9	20.4	12 7	2 13.89	+14 59.9	1.983	2.819	12.6	19.8
<b>487853</b>	2015 TO <sub>104</sub>	11	3.3 334°47	3°8/31.2	18		<b>327090</b>	2004 XR <sub>21</sub>	11	3.4 354°81	4°8/ 7.8	18	
9 28	2 56.11	+8 0.1	1.933	2.779	13.3	21.1	9 28	2 56.87	+32 6.8	1.904	2.682	16.1	19.6
10 8	2 52.35	+6 55.2	1.859	2.774	10.1	20.9	10 8	2 53.33	+31 47.3	1.819	2.679	13.3	19.4
10 18	2 46.59	+5 45.4	1.808	2.769	6.7	20.7	10 18	2 47.41	+31 5.1	1.754	2.676	10.0	19.2
10 28	2 39.46	+4 36.4	1.784	2.765	4.0	20.5	10 28	2 39.85	+29 59.8	1.713	2.675	6.7	19.0
11 7	2 31.82	+3 34.4	1.787	2.761	4.8	20.6	11 7	2 31.69	+28 34.1	1.698	2.673	4.8	18.9
11 17	2 24.59	+2 45.2	1.819	2.757	8.0	20.8	11 17	2 24.06	+26 54.4	1.711	2.672	6.2	19.0
11 27	2 18.65	+2 13.1	1.876	2.754	11.4	21.0	11 27	2 18.00	+25 9.9	1.752	2.672	9.5	19.2
12 7	2 14.64	+1 59.9	1.955	2.750	14.4	21.2	12 7	2 14.22	+23 29.7	1.819	2.673	12.8	19.4
<b>435091</b>	2007 CT <sub>36</sub>	11	3.3 212°95	5°8/30.4	18		<b>402286</b>	2005 SR <sub>174</sub>	11	3.4 139°33	2°1/ 5.2	18	
9 28	3 1.32	+3 30.1	1.646	2.493	15.2	21.7	9 28	3 0.46	+23 34.6	2.271	3.065	13.3	21.6
10 8	2 56.61	+2 23.9	1.578	2.491	11.8	21.5	10 8	2 55.49	+23 27.3	2.191	3.071	10.5	21.4
10 18	2 49.45	+1 16.6	1.533	2.489	8.3	21.3	10 18	2 48.54	+23 7.1	2.134	3.077	7.2	21.2
10 28	2 40.62	+0 15.7	1.513	2.486	5.9	21.1	10 28	2 40.25	+22 34.6	2.103	3.082	3.8	21.0
11 7	2 31.17	-0 31.7	1.520	2.483	6.8	21.2	11 7	2 31.48	+21 52.4	2.101	3.087	2.2	20.9
11 17	2 22.26	-0 59.9	1.553	2.480	10.0	21.4	11 17	2 23.14	+21 4.5	2.129	3.092	5.0	21.1
11 27	2 14.98	-1 5.8	1.611	2.477	13.6	21.6	11 27	2 16.11	+20 16.1	2.185	3.097	8.3	21.3
12 7	2 10.04	-0 49.5	1.690	2.474	16.8	21.8	12 7	2 10.99	+19 32.4	2.267	3.101	11.4	21.5
<b>342035</b>	2008 RR <sub>113</sub>	11	3.3 230°17	2°8/ 5.2	18		<b>75843</b>	2000 BL <sub>32</sub>	11	3.4 99°93	2°7/ 1.5	18	
9 28	3 3.78	+23 18.4	1.795	2.599	15.9	21.1	9 28	3 0.74	+9 47.6	1.854	2.692	14.1	19.6
10 8	2 58.69	+23 30.2	1.709	2.594	12.6	20.9	10 8	2 55.90	+9 11.9	1.787	2.698	10.7	19.4
10 18	2 50.95	+23 27.5	1.644	2.589	8.8	20.6	10 18	2 48.88	+8 31.4	1.742	2.704	6.9	19.2
10 28	2 41.27	+23 9.8	1.604	2.583	4.8	20.4	10 28	2 40.41	+7 50.5	1.724	2.709	3.3	19.0
11 7	2 30.76	+22 38.7	1.592	2.577	3.0	20.3	11 7	2 31.43	+7 13.9	1.734	2.715	3.6	19.0
11 17	2 20.69	+21 58.4	1.608	2.571	6.3	20.5	11 17	2 22.99	+6 46.4	1.772	2.721	7.2	19.2
11 27	2 12.27	+21 15.6	1.651	2.565	10.3	20.7	11 27	2 16.02	+6 31.6	1.836	2.726	10.9	19.5
12 7	2 6.36	+20 36.8	1.718	2.559	14.1	20.9	12 7	2 11.17	+6 31.5	1.924	2.732	14.1	19.7
<b>206526</b>	2003 UR <sub>159</sub>	11	3.3 210°51	2°0/ 2.0	18		<b>205459</b>	2001 QQ <sub>34</sub>	11	3.4 108°52	5°0/30.4	18	
9 28	3 3.45	+9 45.5	2.165	2.989	12.9	20.9	9 28	3 0.55					

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>46214</b>	2001 <i>FX</i> <sub>166</sub>		11 3.4 83°78	3°6/ 6.4	18		<b>396252</b>	2014 <i>BH</i> <sub>63</sub>		11 3.4 277°00	3°0/ 5.2	18	
9 28	3 2.21	+28 3.6	1.821	2.610	16.3	18.9	9 28	3 3.07	+23 37.7	1.699	2.507	16.5	21.7
10 8	2 57.21	+27 47.1	1.755	2.627	13.0	18.7	10 8	2 58.52	+23 48.5	1.601	2.488	13.2	21.5
10 18	2 49.78	+27 11.2	1.709	2.644	9.3	18.5	10 18	2 51.12	+23 44.0	1.524	2.469	9.3	21.2
10 28	2 40.75	+26 16.0	1.688	2.660	5.6	18.3	10 28	2 41.50	+23 22.9	1.471	2.450	5.1	20.9
11 7	2 31.28	+25 5.4	1.695	2.677	3.6	18.2	11 7	2 30.81	+22 46.5	1.445	2.430	3.2	20.7
11 17	2 22.51	+23 45.7	1.730	2.693	5.9	18.4	11 17	2 20.39	+21 59.4	1.446	2.411	6.7	20.9
11 27	2 15.49	+22 25.3	1.793	2.709	9.5	18.7	11 27	2 11.64	+21 8.7	1.474	2.391	11.2	21.1
12 7	2 10.86	+21 11.7	1.880	2.725	12.9	18.9	12 7	2 5.54	+20 22.4	1.525	2.371	15.3	21.3
<b>103612</b>	2000 <i>CD</i> <sub>21</sub>		11 3.4 227°77	7°2/ 9.3	18		<b>393153</b>	2013 <i>CN</i>		11 3.4 118°04	3°8/ 31.2	18	
9 28	3 3.53	+36 39.9	2.024	2.762	16.5	20.0	9 28	3 0.29	+ 5 49.9	2.218	3.051	12.3	21.5
10 8	2 58.58	+37 9.6	1.936	2.760	14.1	19.8	10 8	2 55.11	+ 4 57.3	2.159	3.066	9.4	21.3
10 18	2 50.94	+37 18.1	1.867	2.757	11.3	19.7	10 18	2 48.16	+ 4 3.4	2.124	3.081	6.3	21.2
10 28	2 41.33	+37 1.6	1.820	2.753	8.8	19.5	10 28	2 40.10	+ 3 12.9	2.117	3.095	3.9	21.0
11 7	2 30.91	+36 19.6	1.800	2.750	7.2	19.4	11 7	2 31.71	+ 2 30.5	2.140	3.109	4.5	21.1
11 17	2 20.96	+35 15.4	1.806	2.747	7.8	19.4	11 17	2 23.82	+ 2 0.2	2.191	3.123	7.2	21.3
11 27	2 12.73	+23 56.2	1.839	2.743	10.1	19.6	11 27	2 17.19	+ 1 44.5	2.269	3.136	10.1	21.5
12 7	2 7.06	+32 31.4	1.897	2.740	12.9	19.7	12 7	2 12.34	+ 1 44.2	2.371	3.149	12.7	21.7
<b>408791</b>	2000 <i>FQ</i> <sub>72</sub>		11 3.4 269°40	2°5/ 5.4	17		<b>267142</b>	2000 <i>EV</i> <sub>193</sub>		11 3.4 163°68	0°6/ 3.8	16	
9 28	3 0.18	+23 38.7	2.402	3.193	12.7	21.4	9 28	3 4.00	+19 7.2	1.981	2.790	14.4	22.1
10 8	2 55.33	+23 52.9	2.312	3.189	10.1	21.2	10 8	2 58.39	+18 47.3	1.903	2.796	11.1	21.9
10 18	2 48.51	+23 56.0	2.244	3.184	7.1	21.0	10 18	2 50.52	+18 15.6	1.848	2.801	7.3	21.7
10 28	2 40.30	+23 47.6	2.203	3.179	4.0	20.8	10 28	2 41.10	+17 33.8	1.819	2.806	3.1	21.5
11 7	2 31.51	+23 29.1	2.191	3.175	2.6	20.7	11 7	2 31.13	+16 45.6	1.820	2.809	1.5	21.3
11 17	2 23.01	+23 3.2	2.208	3.170	5.0	20.8	11 17	2 21.68	+15 56.0	1.850	2.812	5.7	21.6
11 27	2 15.70	+22 34.0	2.254	3.165	8.1	21.0	11 27	2 13.74	+15 10.9	1.909	2.815	9.7	21.9
12 7	2 10.21	+22 6.3	2.325	3.161	11.1	21.2	12 7	2 8.00	+14 35.0	1.992	2.816	13.1	22.1
<b>15522</b>	Trueblood		11 3.4 31°10	8°5/ 30.1	18 R		<b>9092</b>	Nanyang		11 3.4 135°62	4°9/ 30.3	18	
9 28	3 1.74	- 0 42.0	1.194	2.059	18.6	17.4	9 28	2 58.54	+ 1 28.6	2.294	3.129	11.9	17.0
10 8	2 57.52	- 1 47.2	1.148	2.066	14.7	17.2	10 8	2 53.82	+ 0 40.1	2.228	3.132	9.2	16.8
10 18	2 50.27	- 2 46.4	1.121	2.074	10.9	17.0	10 18	2 47.39	- 0 6.9	2.186	3.136	6.6	16.7
10 28	2 41.02	- 3 29.7	1.116	2.083	8.6	16.9	10 28	2 39.82	- 0 47.3	2.172	3.139	4.9	16.6
11 7	2 31.18	- 3 49.0	1.135	2.092	9.6	17.0	11 7	2 31.87	- 1 16.7	2.186	3.143	5.6	16.6
11 17	2 22.22	- 3 40.2	1.178	2.103	12.8	17.2	11 17	2 24.33	- 1 31.8	2.228	3.146	7.9	16.8
11 27	2 15.44	- 3 3.1	1.242	2.113	16.5	17.5	11 27	2 17.93	- 1 30.8	2.296	3.149	10.6	17.0
12 7	2 11.55	- 2 1.6	1.325	2.124	19.8	17.7	12 7	2 13.22	- 1 13.6	2.388	3.152	13.0	17.1
<b>27322</b>	2000 <i>CW</i> <sub>24</sub>		11 3.4 42°34	6°5/ 8.4	18		<b>291338</b>	2006 <i>BC</i> <sub>217</sub>		11 3.4 347°50	2°6/ 1.6	18	
9 28	3 2.57	+33 41.8	1.819	2.583	17.2	18.4	9 28	2 59.16	+ 8 55.9	1.961	2.799	13.5	20.2
10 8	2 57.94	+34 8.0	1.740	2.586	14.4	18.2	10 8	2 54.70	+ 8 35.1	1.885	2.796	10.2	20.0
10 18	2 50.54	+34 12.7	1.681	2.589	11.3	18.0	10 18	2 48.17	+ 8 11.0	1.832	2.794	6.6	19.7
10 28	2 41.17	+33 52.9	1.644	2.592	8.2	17.8	10 28	2 40.19	+ 7 47.1	1.806	2.791	3.2	19.5
11 7	2 31.03	+33 8.9	1.633	2.596	6.5	17.7	11 7	2 31.65	+ 7 27.4	1.808	2.790	3.5	19.5
11 17	2 21.47	+32 4.9	1.649	2.599	7.5	17.8	11 17	2 23.53	+ 7 15.7	1.838	2.788	6.9	19.8
11 27	2 13.72	+30 49.1	1.691	2.603	10.3	18.0	11 27	2 16.74	+ 7 14.9	1.895	2.787	10.5	20.0
12 7	2 8.63	+29 30.9	1.757	2.607	13.4	18.2	12 7	2 11.95	+ 7 26.8	1.975	2.786	13.7	20.2
<b>254869</b>	2005 <i>SP</i> <sub>11</sub>		11 3.4 334°95	3°3/ 5.0	18		<b>1427</b>	Ruvuma		11 3.4 54°61	3°9/ 1.2	18	
9 28	3 2.97	+21 44.5	1.720	2.534	16.1	20.4	9 28	3 3.53	+ 6 3.0	1.602	2.445	15.7	14.9
10 8	2 58.33	+22 31.2	1.633	2.523	12.8	20.1	10 8	2 58.10	+ 5 41.0	1.554	2.467	11.9	14.7
10 18	2 50.91	+23 7.4	1.567	2.514	9.0	19.9	10 18	2 50.29	+ 5 18.7	1.528	2.488	7.8	14.6
10 28	2 41.39	+23 31.0	1.526	2.504	5.0	19.6	10 28	2 40.97	+ 5 0.5	1.528	2.510	4.4	14.4
11 7	2 30.87	+23 41.9	1.512	2.496	3.4	19.5	11 7	2 31.28	+ 4 51.0	1.555	2.532	4.8	14.5
11 17	2 20.67	+23 42.0	1.525	2.488	6.6	19.7	11 17	2 22.37	+ 4 53.4	1.609	2.554	8.2	14.7
11 27	2 12.10	+23 35.9	1.564	2.481	10.7	19.9	11 27	2 15.24	+ 5 9.6	1.689	2.576	11.9	15.0
12 7	2 6.12	+23 29.4	1.627	2.474	14.4	20.1	12 7	2 10.49	+ 5 39.6	1.791	2.599	15.0	15.3
<b>453431</b>	2009 <i>PP</i> <sub>1</sub>		11 3.4 258°29	16°5/ 13.5	17		<b>298029</b>	2002 <i>PX</i> <sub>119</sub>		11 3.4 42°92	6°9/ 8.5	18	
9 28	3 12.00	+47 24.5	1.263	1.977	25.7	20.6	9 28	3 3.20	+33 36.2	1.709	2.478	18.0	20.4
10 8	3 8.06	+49 14.3	1.186	1.968	23.5	20.3	10 8	2 58.57	+34 12.2	1.637	2.485	15.1	20.2
10 18	2 58.80	+50 31.9	1.121	1.959	21.0	20.1	10 18	2 51.02	+34 26.1	1.583	2.492	11.8	20.0
10 28	2 44.97	+51 3.1	1.073	1.950	18.5	20.0	10 28	2 41.40	+34 14.4	1.552	2.499	8.7	19.8
11 7	2 28.74	+50 37.5	1.042	1.941	16.9	19.8	11 7	2 30.99	+33 37.4	1.545	2.507	7.0	19.8
11 17	2 13.20	+49 13.6	1.031	1.932	16.6	19.8	11 17	2 21.21	+32 39.2	1.566	2.515	7.9	19.8
11 27	2 1.36	+47 3.2	1.040	1.922	18.0	19.8	11 27	2 13.38	+31 28.1	1.612	2.524	10.7	20.0
12 7	1 54.87	+44 26.8	1.068	1.912	20.5	20.0	12 7	2 8.36	+30 14.1	1.681	2.532	13.8	20.2
<b>244308</b>	2002 <i>GG</i> <sub>92</sub>		11 3.4 246°82	0°5/ 2.9	18		<b>157662</b>	2005 <i>YY</i> <sub>50</sub>		11 3.4 150°38	0°1/ 3.5	18	
9 28	3 0.85	+16 17.1	1.901	2.726	14.4	22.0	9 28	2 58.74	+17 26.8	2.618	3.426	11.3	20.8
10 8	2 56.21	+15 44.9	1.811	2.715	11.0	21.7	10 8	2 53.88	+17 7.6	2.538	3.432	8.7	20.6
10 18	2 49.26	+15 1.7	1.745	2.704	7.1	21.5	10 18	2 47.40	+16 40.4	2.483	3.437	5.6	20.4
10 28	2 40.65	+14 10.1	1.704	2.692	2.8	21.2	10 28	2 39.84	+16 7.0	2.456	3.443	2.3	20.2
11 7	2 31.33	+13 14.8	1.692	2.680	1.9	21.1	11 7	2 31.89	+15 30.2	2.458	3.447	1.2	20.1
11 17	2 22.39	+12 21.5	1.709	2.668	6.4	21.4	11 17	2 24.30	+14 53.5	2.491	3.452	4.6	20.4
11 27	2 14.87	+11 36.0	1.753	2.656	10.6	21.6	11 27	2 17.76	+14 20.5	2.554	3.456	7.7	20.6
12 7	2 9.53	+11 3.2	1.821	2.643	14.2	21.8	12 7	2 12.81	+13 54.6	2.642	3.460	10.4	20.8
<b>127078</b>	2002 <i>GM</i> <sub>65</sub>		11 3.4 357°90	0°1/ 3.2	18		<b>449285</b>	2013 <i>EM</i> <sub>80</sub>		11 3.4 217°05	0°5/ 3.8	18	
9 28	2 58.43												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>408555</b>	2013 <i>KK</i> <sub>10</sub>		11 3.4 106°02	0°4/ 3.8 18			<b>118610</b>	2000 <i>GC</i> <sub>143</sub>		11 3.4 173°83	4°1/31.4 18		
9 28	2 59.16	+18 48.3	2.544	3.350	11.7	21.8	9 28	3 1.55	+ 7 37.4	1.738	2.580	14.8	20.2
10 8	2 54.17	+18 24.7	2.475	3.367	9.0	21.6	10 8	2 56.70	+ 6 35.4	1.669	2.582	11.3	20.0
10 18	2 47.55	+17 52.1	2.431	3.384	5.8	21.4	10 18	2 49.52	+ 5 28.9	1.623	2.583	7.5	19.8
10 28	2 39.89	+17 12.4	2.414	3.400	2.4	21.2	10 28	2 40.76	+ 4 23.8	1.603	2.584	4.4	19.6
11 7	2 31.91	+16 28.8	2.427	3.416	1.2	21.2	11 7	2 31.44	+ 3 27.1	1.610	2.584	5.1	19.6
11 17	2 24.38	+15 44.9	2.471	3.432	4.5	21.4	11 17	2 22.67	+ 2 44.6	1.646	2.585	8.6	19.8
11 27	2 17.97	+15 4.9	2.544	3.448	7.6	21.7	11 27	2 15.45	+ 2 20.5	1.707	2.585	12.3	20.1
12 7	2 13.20	+14 32.2	2.642	3.463	10.3	21.9	12 7	2 10.48	+ 2 16.2	1.790	2.584	15.6	20.3
<b>452262</b>	2015 <i>TL</i> <sub>132</sub>		11 3.4 248°49	4°7/30.8 18			<b>316408</b>	2010 <i>TY</i> <sub>89</sub>		11 3.4 266°53	0°8/ 2.8 18		
9 28	2 59.65	+ 1 58.0	2.211	3.046	12.3	20.6	9 28	2 59.92	+14 26.4	2.046	2.873	13.4	21.6
10 8	2 54.82	+ 1 20.2	2.136	3.041	9.5	20.4	10 8	2 55.26	+14 8.5	1.967	2.871	10.2	21.4
10 18	2 48.13	+ 0 43.9	2.085	3.036	6.7	20.2	10 18	2 48.54	+13 43.0	1.910	2.870	6.6	21.2
10 28	2 40.17	+ 0 13.6	2.060	3.031	4.8	20.1	10 28	2 40.37	+13 12.5	1.880	2.868	2.6	20.9
11 7	2 31.73	- 0 6.2	2.064	3.026	5.5	20.1	11 7	2 31.66	+12 40.4	1.879	2.867	1.9	20.9
11 17	2 23.66	- 0 12.4	2.096	3.021	8.0	20.3	11 17	2 23.34	+12 11.0	1.906	2.865	5.9	21.2
11 27	2 16.77	- 0 3.0	2.155	3.016	10.9	20.4	11 27	2 16.34	+11 48.6	1.961	2.864	9.7	21.4
12 7	2 11.66	+ 0 22.1	2.237	3.010	13.5	20.6	12 7	2 11.33	+11 36.2	2.041	2.862	12.9	21.6
<b>70064</b>	1999 <i>JA</i> <sub>44</sub>		11 3.4 99°43	2°2/ 4.7 18			<b>412612</b>	2014 <i>OE</i> <sub>99</sub>		11 3.4 15°70	5°6/29.5 18		
9 28	3 8.51	+21 32.1	1.519	2.332	17.9	20.0	9 28	2 56.21	+ 2 9.4	2.008	2.854	12.9	20.8
10 8	3 2.33	+21 38.4	1.461	2.352	14.0	19.8	10 8	2 52.33	+ 0 53.8	1.945	2.856	10.0	20.7
10 18	2 53.24	+21 29.5	1.423	2.372	9.4	19.6	10 18	2 46.57	- 0 21.4	1.906	2.858	7.2	20.5
10 28	2 42.21	+21 5.6	1.409	2.392	4.6	19.3	10 28	2 39.57	- 1 29.6	1.893	2.860	5.6	20.4
11 7	2 30.62	+20 29.9	1.423	2.411	2.5	19.3	11 7	2 32.14	- 2 24.7	1.908	2.862	6.5	20.5
11 17	2 19.92	+19 48.0	1.465	2.429	6.6	19.6	11 17	2 25.15	- 3 1.9	1.949	2.865	9.1	20.6
11 27	2 11.34	+19 7.4	1.534	2.447	11.0	19.9	11 27	2 19.41	- 3 18.4	2.016	2.868	11.9	20.8
12 7	2 5.64	+18 34.4	1.626	2.465	14.8	20.1	12 7	2 15.48	- 3 14.4	2.105	2.871	14.5	21.0
<b>265134</b>	2003 <i>UY</i> <sub>205</sub>		11 3.4 21°20	1°1/ 4.0 18			<b>516450</b>	2005 <i>CY</i> <sub>41</sub>		11 3.4 347°49	5°7/31.5 18		
9 28	2 58.46	+20 32.4	1.061	1.919	20.9	19.7	9 28	2 56.76	+ 5 5.7	1.189	2.063	18.0	20.5
10 8	2 55.68	+20 5.3	1.006	1.925	16.2	19.4	10 8	2 54.11	+ 4 27.7	1.123	2.051	14.0	20.2
10 18	2 49.45	+19 17.1	0.969	1.932	10.7	19.1	10 18	2 48.41	+ 3 48.4	1.075	2.041	9.6	19.9
10 28	2 40.82	+18 11.2	0.952	1.940	4.6	18.8	10 28	2 40.47	+ 3 15.2	1.050	2.032	6.0	19.7
11 7	2 31.40	+16 55.1	0.960	1.949	2.2	18.7	11 7	2 31.60	+ 2 55.8	1.048	2.024	6.8	19.7
11 17	2 22.91	+15 39.6	0.991	1.960	8.1	19.1	11 17	2 23.30	+ 2 56.1	1.070	2.018	11.0	20.0
11 27	2 16.85	+14 35.3	1.045	1.971	13.6	19.5	11 27	2 16.98	+ 3 19.1	1.114	2.014	15.5	20.2
12 7	2 14.03	+13 49.7	1.119	1.983	18.3	19.8	12 7	2 13.57	+ 4 4.4	1.177	2.011	19.6	20.5
<b>43183</b>	1999 <i>XK</i> <sub>213</sub>		11 3.4 33°82	1°9/ 1.6 18 R			<b>218795</b>	2006 <i>AO</i> <sub>83</sub>		11 3.4 331°26	4°4/30.7 18		
9 28	2 56.64	+12 49.7	2.179	3.011	12.5	19.0	9 28	2 56.87	+ 5 4.3	2.064	2.907	12.7	19.9
10 8	2 52.57	+11 52.5	2.103	3.012	9.5	18.8	10 8	2 52.84	+ 4 4.8	1.992	2.904	9.7	19.7
10 18	2 46.69	+10 47.6	2.052	3.013	6.0	18.6	10 18	2 46.92	+ 3 3.4	1.944	2.901	6.7	19.6
10 28	2 39.60	+ 9 39.3	2.027	3.014	2.6	18.4	10 28	2 39.72	+ 2 5.6	1.922	2.898	4.5	19.4
11 7	2 32.08	+ 8 32.7	2.032	3.015	2.9	18.4	11 7	2 32.05	+ 1 17.0	1.929	2.895	5.3	19.5
11 17	2 24.96	+ 7 33.3	2.066	3.017	6.3	18.7	11 17	2 24.77	+ 0 42.4	1.963	2.893	8.1	19.6
11 27	2 19.03	+ 6 45.9	2.128	3.018	9.6	18.9	11 27	2 18.71	+ 0 24.9	2.023	2.891	11.2	19.8
12 7	2 14.86	+ 6 13.2	2.213	3.019	12.6	19.1	12 7	2 14.46	+ 0 25.3	2.106	2.888	13.9	20.0
<b>474211</b>	2000 <i>SO</i> <sub>320</sub>		11 3.4 352°30	1°9/ 2.4 18			<b>311553</b>	2006 <i>BN</i> <sub>100</sub>		11 3.4 186°85	2°7/31.7 18		
9 28	2 59.19	+11 58.0	1.255	2.116	18.1	20.7	9 28	2 57.42	+ 7 28.6	2.689	3.516	10.5	21.0
10 8	2 55.88	+11 47.3	1.187	2.110	13.9	20.4	10 8	2 52.82	+ 6 46.3	2.611	3.516	8.0	20.9
10 18	2 49.49	+11 29.0	1.138	2.105	8.9	20.1	10 18	2 46.71	+ 6 1.6	2.558	3.515	5.3	20.7
10 28	2 40.87	+11 7.0	1.112	2.101	3.7	19.8	10 28	2 39.60	+ 5 17.8	2.533	3.514	3.0	20.6
11 7	2 31.33	+10 46.5	1.111	2.098	3.3	19.8	11 7	2 32.12	+ 4 38.8	2.539	3.513	3.5	20.6
11 17	2 22.39	+10 33.0	1.134	2.096	8.5	20.1	11 17	2 24.96	+ 4 8.1	2.574	3.511	6.0	20.7
11 27	2 15.47	+10 31.9	1.181	2.096	13.6	20.4	11 27	2 18.75	+ 3 48.2	2.637	3.509	8.7	20.9
12 7	2 11.48	+10 45.8	1.249	2.096	17.9	20.6	12 7	2 14.00	+ 3 40.7	2.725	3.507	11.1	21.1
<b>396859</b>	2004 <i>TG</i> <sub>5</sub>		11 3.4 39°32	0°6/ 2.9 15			<b>106503</b>	2000 <i>WS</i> <sub>36</sub>		11 3.4 9°27	2°2/ 2.1 18		
9 28	2 57.35	+17 43.7	1.685	2.520	15.4	20.5	9 28	2 52.14	+16 19.1	0.873	1.760	21.7	18.5
10 8	2 53.45	+16 45.6	1.631	2.540	11.7	20.3	10 8	2 51.25	+15 10.3	0.824	1.761	16.5	18.2
10 18	2 47.34	+15 34.7	1.599	2.561	7.4	20.1	10 18	2 46.79	+13 40.7	0.792	1.765	10.5	17.9
10 28	2 39.83	+14 16.0	1.594	2.582	2.8	19.9	10 28	2 39.82	+11 59.3	0.780	1.770	4.1	17.6
11 7	2 31.98	+12 56.1	1.615	2.604	2.0	19.9	11 7	2 32.03	+10 19.3	0.790	1.778	4.0	17.6
11 17	2 24.82	+11 42.3	1.665	2.626	6.4	20.2	11 17	2 25.18	+ 8 54.3	0.822	1.787	10.2	18.0
11 27	2 19.26	+10 40.9	1.742	2.649	10.4	20.5	11 27	2 20.79	+ 7 55.2	0.874	1.798	15.9	18.3
12 7	2 15.86	+ 9 55.9	1.842	2.672	13.7	20.7	12 7	2 19.68	+ 7 26.0	0.944	1.811	20.6	18.7
<b>485916</b>	2012 <i>GN</i> <sub>22</sub>		11 3.4 152°63	4°9/29.7 18			<b>322193</b>	2010 <i>XB</i> <sub>76</sub>		11 3.4 97°04	4°1/31.2 18		
9 28	2 56.56	+ 1 2.9	2.489	3.323	11.1	21.5	9 28	2 59.86	+ 3 35.2	2.233	3.066	12.2	20.2
10 8	2 52.23	+ 0 2.4	2.422	3.326	8.6	21.3	10 8	2 54.84	+ 2 58.7	2.171	3.077	9.4	20.0
10 18	2 46.35	- 0 56.7	2.380	3.327	6.3	21.2	10 18	2 48.06	+ 2 22.9	2.133	3.087	6.4	19.9
10 28	2 39.44	- 1 49.5	2.365	3.329	4.9	21.1	10 28	2 40.13	+ 1 52.2	2.123	3.098	4.3	19.8
11 7	2 32.18	- 2 31.3	2.379	3.331	5.6	21.1	11 7	2 31.85	+ 1 30.5	2.142	3.108	4.8	19.8
11 17	2 25.27	- 2 58.7	2.422	3.333	7.8	21.3	11 17	2 24.03	+ 1 20.9	2.189	3.119	7.4	20.0
11 27	2 19.39	- 3 9.6	2.491	3.334	10.2	21.5	11 27	2 17.43	+ 1 25.3	2.263	3.129	10.2	20.2
12 7	2 15.02	- 3 3.8	2.582	3.336	12.4	21.6	12 7	2 12.59	+ 1 43.9	2.360	3.139	12.7	20.4
<b>273629</b>	2007 <i>DX</i> <sub>37</sub>		11 3.4 172°96	1°1/ 4.2 18			<b>254147</b>	2004 <i>PB</i> <sub>76</sub>		11 3.4 81			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>294841</b>	2008 <i>CP</i> <sub>154</sub>	11 3.4 45°93	7.4/28.9	18			<b>452226</b>	2015 <i>RA</i> <sub>238</sub>	11 3.4 359°30	5.2/30.9	17		
9 28	2 58.99	- 3 2.2	1.858	2.700	13.9	20.2	9 28	2 59.85	+ 1 52.9	1.896	2.738	13.7	21.7
10 8	2 54.54	- 4 11.4	1.802	2.705	11.1	20.0	10 8	2 55.25	+ 1 17.1	1.828	2.737	10.6	21.5
10 18	2 48.03	- 5 15.1	1.770	2.710	8.6	19.9	10 18	2 48.54	+ 0 43.4	1.783	2.737	7.5	21.3
10 28	2 40.16	- 6 5.9	1.762	2.715	7.4	19.8	10 28	2 40.41	+ 0 17.1	1.764	2.736	5.4	21.2
11 7	2 31.87	- 6 38.0	1.781	2.720	8.3	19.9	11 7	2 31.76	+ 0 2.9	1.773	2.736	6.0	21.2
11 17	2 24.10	- 6 47.6	1.827	2.725	10.6	20.1	11 17	2 23.57	+ 0 4.1	1.808	2.737	8.8	21.4
11 27	2 17.75	- 6 33.7	1.896	2.731	13.2	20.2	11 27	2 16.77	+ 0 22.4	1.869	2.737	11.9	21.6
12 7	2 13.41	- 5 58.2	1.985	2.737	15.7	20.4	12 7	2 11.99	+ 0 57.4	1.953	2.738	14.8	21.8
<b>122761</b>	2000 <i>SZ</i> <sub>66</sub>	11 3.4 42°01	0.7/ 3.9	18			<b>266036</b>	2006 <i>HY</i> <sub>12</sub>	11 3.4 211°87	2.3/ 1.1	17		
9 28	2 59.83	+18 39.6	1.885	2.707	14.6	20.2	9 28	2 56.99	+ 8 57.0	2.744	3.570	10.4	21.2
10 8	2 55.35	+18 28.5	1.813	2.713	11.2	20.0	10 8	2 52.51	+ 8 16.8	2.661	3.566	7.9	21.0
10 18	2 48.66	+18 6.4	1.763	2.719	7.4	19.7	10 18	2 46.55	+ 7 33.1	2.602	3.561	5.1	20.9
10 28	2 40.45	+17 34.8	1.739	2.726	3.1	19.5	10 28	2 39.58	+ 6 49.3	2.572	3.556	2.7	20.7
11 7	2 31.70	+16 57.4	1.743	2.732	1.5	19.4	11 7	2 32.22	+ 6 8.9	2.572	3.550	3.0	20.7
11 17	2 23.45	+16 18.7	1.775	2.739	5.7	19.7	11 17	2 25.15	+ 5 35.4	2.602	3.544	5.7	20.9
11 27	2 16.68	+15 44.1	1.834	2.746	9.6	19.9	11 27	2 19.00	+ 5 11.7	2.660	3.538	8.4	21.0
12 7	2 12.05	+15 18.0	1.918	2.753	13.0	20.2	12 7	2 14.27	+ 4 59.6	2.744	3.532	10.9	21.2
<b>286789</b>	2002 <i>JT</i> <sub>93</sub>	11 3.4 152°77	1.9/ 5.1	18			<b>13726</b>	1998 <i>QV</i> <sub>89</sub>	11 3.4 86°97	4.4/ 7.4	18		
9 28	3 1.05	+24 37.3	1.995	2.793	14.8	21.2	9 28	3 0.52	+30 25.6	2.285	3.050	14.1	17.8
10 8	2 56.21	+23 56.6	1.915	2.798	11.6	21.0	10 8	2 55.73	+30 34.0	2.205	3.058	11.5	17.7
10 18	2 49.16	+22 58.7	1.857	2.802	7.9	20.7	10 18	2 48.84	+30 25.9	2.146	3.065	8.6	17.5
10 28	2 40.63	+21 45.2	1.825	2.806	4.0	20.5	10 28	2 40.53	+30 0.4	2.113	3.072	5.8	17.3
11 7	2 31.61	+20 20.8	1.823	2.810	2.1	20.4	11 7	2 31.70	+29 19.0	2.108	3.080	4.4	17.2
11 17	2 23.13	+18 51.9	1.849	2.814	5.5	20.6	11 17	2 23.33	+28 25.2	2.131	3.087	5.6	17.3
11 27	2 16.15	+17 26.5	1.905	2.817	9.3	20.9	11 27	2 16.33	+27 25.0	2.182	3.094	8.3	17.5
12 7	2 11.33	+16 11.4	1.985	2.820	12.7	21.1	12 7	2 11.35	+26 24.8	2.259	3.101	11.1	17.7
<b>163194</b>	2002 <i>EC</i> <sub>14</sub>	11 3.4 128°67	1.8/ 4.9	18			<b>443362</b>	2014 <i>GM</i> <sub>40</sub>	11 3.4 131°21	2.4/ 1.6	18		
9 28	3 3.92	+22 54.0	2.244	3.034	13.6	21.1	9 28	3 1.82	+ 9 43.2	2.135	2.963	12.9	21.0
10 8	2 58.04	+22 38.3	2.173	3.052	10.6	21.0	10 8	2 56.46	+ 9 11.5	2.068	2.973	9.8	20.8
10 18	2 50.17	+22 9.8	2.125	3.069	7.2	20.8	10 18	2 49.18	+ 8 35.9	2.024	2.984	6.3	20.6
10 28	2 40.99	+21 29.4	2.104	3.085	3.6	20.6	10 28	2 40.63	+ 7 59.9	2.009	2.994	3.0	20.4
11 7	2 31.42	+20 40.2	2.113	3.100	1.9	20.5	11 7	2 31.67	+ 7 27.6	2.022	3.003	3.2	20.4
11 17	2 22.40	+19 46.6	2.152	3.115	5.0	20.8	11 17	2 23.20	+ 7 2.9	2.065	3.012	6.5	20.7
11 27	2 14.80	+18 54.3	2.221	3.129	8.4	21.0	11 27	2 16.05	+ 6 49.0	2.135	3.021	9.8	20.9
12 7	2 9.20	+18 8.1	2.315	3.142	11.4	21.2	12 7	2 10.81	+ 6 47.6	2.229	3.029	12.7	21.1
<b>268009</b>	2004 <i>JV</i> <sub>48</sub>	11 3.4 142°53	3.9/31.9	18			<b>436070</b>	2009 <i>SW</i> <sub>49</sub>	11 3.4 25°69	9.8/ 7.6	18		
9 28	3 3.68	+ 6 58.3	1.735	2.573	14.9	20.9	9 28	3 8.34	+30 34.8	1.097	1.908	23.4	20.0
10 8	2 58.29	+ 6 17.0	1.670	2.580	11.4	20.7	10 8	3 3.96	+32 31.0	1.045	1.919	19.6	19.8
10 18	2 50.53	+ 5 33.0	1.627	2.586	7.5	20.5	10 18	2 55.30	+34 4.2	1.009	1.932	15.4	19.6
10 28	2 41.18	+ 4 51.4	1.610	2.592	4.3	20.3	10 28	2 43.37	+35 5.3	0.993	1.946	11.6	19.4
11 7	2 31.30	+ 4 18.0	1.622	2.597	4.8	20.3	11 7	2 30.10	+35 29.3	0.999	1.961	9.8	19.4
11 17	2 22.01	+ 3 57.1	1.661	2.603	8.3	20.6	11 17	2 17.80	+35 18.8	1.028	1.977	11.2	19.5
11 27	2 14.35	+ 3 52.2	1.726	2.607	12.0	20.8	11 27	2 8.53	+34 44.1	1.080	1.995	14.4	19.8
12 7	2 8.99	+ 4 4.1	1.814	2.612	15.3	21.0	12 7	2 3.44	+33 58.9	1.150	2.013	18.0	20.1
<b>296993</b>	2010 <i>ER</i> <sub>132</sub>	11 3.4 212°07	1.1/ 4.2	18			<b>382760</b>	2003 <i>NY</i>	11 3.4 215°13	2.5/ 5.8	18		
9 28	3 3.04	+19 25.0	1.958	2.769	14.5	21.4	9 28	3 4.29	+25 57.3	2.704	3.471	12.1	22.2
10 8	2 57.87	+19 23.0	1.872	2.766	11.3	21.2	10 8	2 58.32	+25 47.7	2.597	3.459	9.7	22.0
10 18	2 50.36	+19 10.0	1.809	2.762	7.5	20.9	10 18	2 50.43	+25 25.0	2.515	3.447	6.9	21.8
10 28	2 41.17	+18 46.7	1.772	2.757	3.4	20.7	10 28	2 41.17	+24 49.1	2.460	3.433	4.0	21.6
11 7	2 31.28	+18 15.6	1.764	2.753	1.7	20.5	11 7	2 31.34	+24 1.5	2.435	3.418	2.5	21.5
11 17	2 21.81	+17 41.0	1.785	2.748	5.8	20.8	11 17	2 21.77	+23 5.7	2.442	3.402	4.7	21.6
11 27	2 13.79	+17 8.2	1.833	2.743	9.8	21.0	11 27	2 13.33	+22 6.8	2.479	3.385	7.7	21.8
12 7	2 8.00	+16 42.2	1.906	2.737	13.3	21.3	12 7	2 6.66	+21 10.1	2.544	3.367	10.6	21.9
<b>421792</b>	2014 <i>QR</i> <sub>27</sub>	11 3.4 10°41	5.0/30.4	15			<b>312300</b>	2008 <i>CR</i> <sub>37</sub>	11 3.4 293°58	4.1/31.1	18		
9 28	2 54.21	+ 6 24.7	1.639	2.498	14.6	20.6	9 28	2 57.61	+ 7 31.6	1.875	2.720	13.7	20.5
10 8	2 51.21	+ 5 5.4	1.580	2.501	11.2	20.4	10 8	2 53.71	+ 6 26.2	1.793	2.708	10.5	20.3
10 18	2 46.03	+ 3 42.6	1.544	2.506	7.6	20.2	10 18	2 47.67	+ 5 15.5	1.735	2.696	7.0	20.1
10 28	2 39.41	+ 2 23.7	1.533	2.511	5.1	20.1	10 28	2 40.11	+ 4 5.5	1.704	2.684	4.3	19.9
11 7	2 32.31	+ 1 16.6	1.549	2.518	6.1	20.1	11 7	2 31.94	+ 3 2.8	1.700	2.672	5.1	19.9
11 17	2 25.74	+ 0 27.6	1.591	2.525	9.3	20.3	11 17	2 24.14	+ 2 13.5	1.723	2.661	8.4	20.1
11 27	2 20.64	+ 0 0.6	1.657	2.533	12.7	20.6	11 27	2 17.66	+ 1 42.3	1.773	2.649	12.0	20.3
12 7	2 17.62	- 0 3.9	1.744	2.542	15.8	20.8	12 7	2 13.21	+ 1 31.1	1.844	2.638	15.2	20.5
<b>121535</b>	1999 <i>UQ</i> <sub>41</sub>	11 3.4 336°39	2.3/ 4.9	18			<b>312460</b>	2008 <i>QO</i> <sub>44</sub>	11 3.4 173°96	3.8/ 7.0	17		
9 28	2 58.21	+22 4.7	1.765	2.584	15.5	19.8	9 28	3 1.86	+29 30.3	2.845	3.598	11.9	21.4
10 8	2 54.54	+22 11.0	1.678	2.573	12.3	19.6	10 8	2 56.40	+29 51.8	2.754	3.600	9.7	21.2
10 18	2 48.40	+22 3.6	1.613	2.563	8.4	19.4	10 18	2 49.15	+30 0.8	2.687	3.602	7.3	21.1
10 28	2 40.44	+21 42.5	1.571	2.553	4.4	19.1	10 28	2 40.65	+29 56.2	2.646	3.603	5.0	20.9
11 7	2 31.69	+21 10.0	1.557	2.544	2.5	19.0	11 7	2 31.64	+29 38.5	2.634	3.604	3.8	20.8
11 17	2 23.30	+20 30.6	1.570	2.536	6.1	19.2	11 17	2 22.93	+29 9.8	2.653	3.605	4.9	20.9
11 27	2 16.43	+19 50.4	1.609	2.528	10.2	19.4	11 27	2 15.30	+28 34.0	2.700	3.605	7.2	21.1
12 7	2 11.90	+19 15.7	1.672	2.521	14.0	19.6	12 7	2 9.35	+27 56.0	2.775	3.605	9.6	21.2
<b>78954</b>	2003 <i>SK</i> <sub>218</sub>	11 3.4 113°22	0.1/ 3.3	18			<b>29671</b>	1998 <i>XX</i> <sub>8</sub>	11 3.4 285°94	2.3/ 2.0	18		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>257692</b>	1999 <i>WT</i> <sub>8</sub>		11 3.4 274°88	11°0/28.7	18		<b>138455</b>	2000 <i>JQ</i> <sub>13</sub>		11 3.4 124°85	1°4/ 2.4	18	
9 28	3 10.52	-11 51.2	1.687	2.498	16.5	19.8	9 28	3 1.40	+12 25.2	2.014	2.842	13.6	20.1
10 8	3 4.04	-12 38.4	1.601	2.473	14.1	19.6	10 8	2 56.37	+12 5.8	1.941	2.847	10.3	19.9
10 18	2 54.62	-13 11.8	1.536	2.446	12.0	19.4	10 18	2 49.27	+11 40.4	1.891	2.851	6.6	19.7
10 28	2 42.98	-13 22.0	1.495	2.419	11.0	19.3	10 28	2 40.75	+11 12.0	1.868	2.856	2.7	19.4
11 7	2 30.30	-13 1.7	1.480	2.392	11.8	19.3	11 7	2 31.72	+10 44.2	1.874	2.860	2.4	19.4
11 17	2 17.98	-12 7.8	1.490	2.364	14.2	19.3	11 17	2 23.15	+10 21.0	1.908	2.864	6.2	19.7
11 27	2 7.37	-10 41.6	1.524	2.336	17.1	19.5	11 27	2 15.95	+10 6.2	1.970	2.868	9.9	19.9
12 7	1 59.45	- 8 48.5	1.578	2.307	20.0	19.6	12 7	2 10.77	+10 2.4	2.057	2.872	13.1	20.1
<b>339086</b>	2004 <i>RM</i> <sub>86</sub>		11 3.4 57°44	8°2/28.9	18		<b>220745</b>	2004 <i>TO</i> <sub>60</sub>		11 3.4 70°10	3°2/ 5.7	18	
9 28	3 1.08	+ 0 44.5	1.348	2.207	17.2	20.1	9 28	3 2.88	+24 33.2	2.163	2.952	14.0	20.0
10 8	2 56.49	- 1 7.2	1.316	2.232	13.4	19.9	10 8	2 57.63	+25 1.2	2.082	2.956	11.2	19.8
10 18	2 49.36	- 2 54.2	1.306	2.257	9.9	19.8	10 18	2 50.17	+25 17.0	2.024	2.960	8.0	19.6
10 28	2 40.68	- 4 25.4	1.321	2.283	8.2	19.8	10 28	2 41.14	+25 19.6	1.991	2.964	4.7	19.5
11 7	2 31.73	- 5 31.7	1.361	2.309	9.3	19.9	11 7	2 31.48	+25 9.7	1.987	2.969	3.3	19.4
11 17	2 23.72	- 6 8.1	1.425	2.335	12.2	20.1	11 17	2 22.22	+24 50.0	2.012	2.973	5.5	19.5
11 27	2 17.66	- 6 13.8	1.512	2.360	15.3	20.4	11 27	2 14.34	+24 25.2	2.065	2.977	8.7	19.7
12 7	2 14.11	- 5 52.0	1.617	2.386	18.0	20.7	12 7	2 8.56	+24 0.4	2.143	2.981	11.8	19.9
<b>97622</b>	2000 <i>EZ</i> <sub>117</sub>		11 3.4 347°45	10°8/ 8.9	17		<b>358994</b>	2008 <i>SN</i> <sub>279</sub>		11 3.4 328°38	0°7/ 4.5	18	
9 28	3 8.93	+38 32.2	1.811	2.540	18.4	19.0	9 28	2 52.06	+20 1.8	4.281	5.075	7.5	21.3
10 8	3 3.78	+40 33.5	1.726	2.532	16.2	18.8	10 8	2 48.38	+19 54.4	4.191	5.074	5.8	21.2
10 18	2 55.06	+42 17.3	1.659	2.524	13.9	18.6	10 18	2 43.75	+19 41.4	4.125	5.073	3.9	21.1
10 28	2 43.38	+43 35.0	1.615	2.517	11.8	18.5	10 28	2 38.49	+19 23.6	4.088	5.072	1.8	20.9
11 7	2 30.03	+44 20.4	1.595	2.512	10.8	18.4	11 7	2 32.99	+19 2.4	4.082	5.070	0.9	20.8
11 17	2 16.77	+44 32.0	1.600	2.507	11.3	18.4	11 17	2 27.65	+18 39.4	4.107	5.069	2.8	21.0
11 27	2 5.47	+44 14.6	1.629	2.503	13.0	18.5	11 27	2 22.87	+18 16.8	4.162	5.069	4.9	21.1
12 7	1 57.49	+43 37.8	1.679	2.500	15.3	18.7	12 7	2 19.01	+17 56.6	4.244	5.068	6.7	21.3
<b>159530</b>	2001 <i>FD</i> <sub>189</sub>		11 3.4 227°65	3°4/31.5	18		<b>444597</b>	2006 <i>UU</i> <sub>141</sub>		11 3.4 22°16	2°0/ 4.4	18	
9 28	2 59.09	+ 4 49.9	2.527	3.356	11.1	20.1	9 28	3 3.85	+18 4.1	1.372	2.209	18.2	20.5
10 8	2 54.24	+ 4 18.9	2.445	3.350	8.5	20.0	10 8	2 59.22	+18 49.1	1.314	2.220	14.2	20.2
10 18	2 47.73	+ 3 47.4	2.388	3.343	5.8	19.8	10 18	2 51.55	+19 23.8	1.275	2.232	9.5	20.0
10 28	2 40.10	+ 3 19.1	2.359	3.336	3.6	19.6	10 28	2 41.75	+19 47.3	1.260	2.245	4.5	19.8
11 7	2 32.01	+ 2 57.3	2.359	3.329	4.1	19.6	11 7	2 31.19	+20 0.3	1.271	2.259	2.5	19.7
11 17	2 24.23	+ 2 45.3	2.388	3.322	6.6	19.8	11 17	2 21.36	+20 6.0	1.308	2.274	6.9	20.0
11 27	2 17.47	+ 2 45.2	2.445	3.314	9.4	20.0	11 27	2 13.63	+20 9.4	1.370	2.291	11.5	20.3
12 7	2 12.27	+ 2 57.9	2.527	3.307	12.0	20.1	12 7	2 8.82	+20 15.5	1.455	2.308	15.5	20.6
<b>95143</b>	2002 <i>AQ</i> <sub>164</sub>		11 3.4 342°07	2°5/ 1.9	18		<b>319912</b>	2006 <i>XD</i> <sub>38</sub>		11 3.4 302°27	0°3/ 3.6	18	
9 28	2 56.60	+12 40.3	1.235	2.100	18.1	19.3	9 28	2 59.44	+17 25.7	1.911	2.736	14.3	21.4
10 8	2 54.00	+12 1.2	1.163	2.089	13.9	19.0	10 8	2 55.27	+17 14.6	1.820	2.722	11.1	21.2
10 18	2 48.39	+11 10.9	1.111	2.079	8.9	18.7	10 18	2 48.81	+16 53.2	1.751	2.708	7.3	20.9
10 28	2 40.54	+10 14.8	1.081	2.070	3.8	18.4	10 28	2 40.66	+16 23.1	1.707	2.695	3.0	20.6
11 7	2 31.75	+ 9 20.4	1.076	2.061	3.9	18.4	11 7	2 31.77	+15 47.5	1.692	2.681	1.6	20.5
11 17	2 23.50	+ 8 36.0	1.095	2.055	9.1	18.7	11 17	2 23.20	+15 11.0	1.704	2.668	6.0	20.8
11 27	2 17.21	+ 8 8.6	1.137	2.049	14.2	18.9	11 27	2 15.99	+14 39.0	1.744	2.655	10.1	21.0
12 7	2 13.80	+ 8 2.0	1.198	2.044	18.6	19.2	12 7	2 10.92	+14 15.9	1.808	2.642	13.8	21.2
<b>365627</b>	2010 <i>UR</i> <sub>57</sub>		11 3.4 90°20	0°4/ 3.1	18		<b>490191</b>	2008 <i>UR</i> <sub>314</sub>		11 3.4 74°39	1°3/ 3.6	17	
9 28	3 1.67	+14 27.7	2.157	2.977	13.1	20.9	9 28	3 25.44	+10 12.6	0.906	1.749	24.8	21.1
10 8	2 56.46	+14 26.4	2.083	2.984	10.0	20.7	10 8	3 17.59	+12 11.0	0.846	1.757	19.4	20.8
10 18	2 49.27	+14 18.9	2.034	2.991	6.4	20.5	10 18	3 4.48	+14 15.3	0.805	1.765	12.8	20.5
10 28	2 40.73	+14 6.7	2.011	2.999	2.5	20.3	10 28	2 47.21	+16 18.8	0.785	1.773	5.4	20.2
11 7	2 31.70	+13 52.6	2.017	3.006	1.6	20.2	11 7	2 28.14	+18 13.1	0.792	1.781	3.0	20.1
11 17	2 23.11	+13 39.5	2.053	3.013	5.5	20.5	11 17	2 10.22	+19 51.8	0.824	1.789	10.2	20.5
11 27	2 15.83	+13 31.0	2.117	3.021	9.0	20.7	11 27	1 56.08	+21 15.9	0.881	1.797	16.7	20.9
12 7	2 10.47	+13 29.8	2.206	3.028	12.1	21.0	12 7	1 47.09	+22 30.7	0.956	1.805	21.9	21.2
<b>360004</b>	2012 <i>XO</i> <sub>146</sub>		11 3.4 289°52	2°0/ 2.1	18		<b>435891</b>	2008 <i>YD</i> <sub>172</sub>		11 3.4 22°97	11°7/27.9	18	
9 28	3 0.69	+12 24.2	1.713	2.552	15.1	20.7	9 28	2 58.70	- 7 53.5	1.232	2.093	18.4	19.3
10 8	2 56.23	+11 48.8	1.638	2.550	11.5	20.5	10 8	2 55.11	- 9 24.4	1.197	2.103	15.3	19.1
10 18	2 49.37	+11 5.4	1.585	2.548	7.4	20.3	10 18	2 48.73	-10 40.5	1.182	2.115	12.7	19.0
10 28	2 40.83	+10 18.1	1.558	2.546	3.1	20.0	10 28	2 40.56	-11 30.5	1.188	2.127	11.7	19.0
11 7	2 31.64	+ 9 32.3	1.559	2.544	3.1	20.0	11 7	2 31.93	-11 46.8	1.217	2.141	12.7	19.1
11 17	2 22.95	+ 8 53.6	1.587	2.542	7.3	20.3	11 17	2 24.18	-11 26.8	1.267	2.156	15.0	19.3
11 27	2 15.82	+ 8 27.1	1.642	2.540	11.4	20.5	11 27	2 18.45	-10 32.9	1.337	2.172	17.8	19.5
12 7	2 10.99	+ 8 15.7	1.719	2.539	15.0	20.7	12 7	2 15.37	- 9 11.4	1.424	2.188	20.3	19.8
<b>327075</b>	2004 <i>VW</i> <sub>12</sub>		11 3.4 322°52	5°5/31.7	17		<b>156586</b>	2002 <i>GV</i> <sub>41</sub>		11 3.4 311°80	1°7/ 1.9	18	
9 28	3 3.85	- 0 8.1	1.829	2.665	14.4	19.9	9 28	2 56.72	+13 58.4	1.995	2.830	13.4	19.9
10 8	2 58.64	- 0 11.2	1.741	2.645	11.4	19.6	10 8	2 52.94	+13 1.8	1.912	2.822	10.2	19.7
10 18	2 50.98	- 0 8.7	1.676	2.626	8.2	19.4	10 18	2 47.15	+11 55.5	1.853	2.815	6.5	19.5
10 28	2 41.52	+ 0 4.0	1.636	2.608	5.7	19.2	10 28	2 39.95	+10 43.5	1.820	2.807	2.7	19.2
11 7	2 31.23	+ 0 30.7	1.624	2.590	6.2	19.2	11 7	2 32.21	+ 9 31.8	1.815	2.800	2.8	19.2
11 17	2 21.25	+ 1 13.2	1.640	2.573	9.1	19.3	11 17	2 24.85	+ 8 26.5	1.839	2.793	6.6	19.5
11 27	2 12.69	+ 2 12.1	1.682	2.556	12.7	19.5	11 27	2 18.76	+ 7 33.3	1.891	2.786	10.3	19.7
12 7	2 6.39	+ 3 25.7	1.747	2.540	15.9	19.7	12 7	2 14.58	+ 6 56.0	1.965	2.780	13.6	19.9
<b>516447</b>	2005 <i>AP</i> <sub>16</sub>		11 3.4 248°20	12°8/21.5	18		<b>98718</b>	2000 <i>XX</i> <sub>49</sub>		11 3			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>387367</b>	2012 <i>XK</i> <sub>84</sub>	11	3.4	73°14	9°4/28.4	18	<b>220155</b>	2002 <i>TZ</i> <sub>219</sub>	11	3.4	0°37	9°6/29.8	18
9 28	3 2.26	- 7 36.0	1.684	2.520	15.4	19.8	9 28	2 58.52	- 1 31.2	1.066	1.942	19.4	19.3
10 8	2 57.14	- 8 48.4	1.641	2.532	12.7	19.6	10 8	2 55.61	- 2 39.5	1.015	1.939	15.5	19.0
10 18	2 49.76	- 9 49.8	1.619	2.545	10.4	19.5	10 18	2 49.44	- 3 41.0	0.982	1.937	11.8	18.8
10 28	2 40.93	-10 32.0	1.622	2.557	9.4	19.5	10 28	2 40.98	- 4 24.5	0.970	1.937	9.7	18.7
11 7	2 31.72	-10 48.9	1.649	2.570	10.2	19.6	11 7	2 31.72	- 4 40.3	0.981	1.937	10.7	18.8
11 17	2 23.22	-10 38.3	1.702	2.583	12.3	19.8	11 17	2 23.26	- 4 23.7	1.013	1.940	14.1	19.0
11 27	2 16.37	-10 0.8	1.777	2.595	14.8	19.9	11 27	2 17.02	- 3 34.7	1.065	1.943	18.0	19.2
12 7	2 11.77	- 9 0.2	1.872	2.608	17.1	20.1	12 7	2 13.86	- 2 18.2	1.134	1.948	21.5	19.5
<b>206461</b>	2003 <i>TE</i> <sub>7</sub>	11	3.4	38°03	9°6/29.3	18	<b>452538</b>	2004 <i>TX</i> <sub>265</sub>	11	3.4	43°54	0°0/ 3.4	17
9 28	3 1.21	- 4 43.0	1.344	2.199	17.5	19.0	9 28	3 0.19	+17 32.8	1.698	2.528	15.6	21.2
10 8	2 56.75	- 5 55.1	1.307	2.215	14.1	18.8	10 8	2 55.65	+17 10.1	1.647	2.552	11.8	21.0
10 18	2 49.66	- 6 56.6	1.290	2.231	11.1	18.7	10 18	2 48.84	+16 36.4	1.618	2.577	7.6	20.8
10 28	2 40.90	- 7 37.9	1.297	2.249	9.6	18.7	10 28	2 40.59	+15 54.6	1.614	2.602	3.0	20.6
11 7	2 31.76	- 7 52.4	1.328	2.267	10.4	18.8	11 7	2 31.99	+15 9.4	1.638	2.628	1.6	20.6
11 17	2 23.50	- 7 37.5	1.382	2.286	13.0	19.0	11 17	2 24.10	+14 26.2	1.690	2.653	6.0	20.9
11 27	2 17.19	- 6 54.4	1.458	2.305	15.9	19.2	11 27	2 17.86	+13 50.4	1.769	2.680	10.0	21.2
12 7	2 13.45	- 5 47.7	1.553	2.325	18.6	19.4	12 7	2 13.87	+13 25.8	1.871	2.706	13.3	21.5
<b>309617</b>	2008 <i>CH</i> <sub>23</sub>	11	3.4	255°28	4°8/30.3	18	<b>131807</b>	2002 <i>AN</i> <sub>75</sub>	11	3.4	14°61	1°4/ 4.2	18
9 28	2 58.73	+ 3 33.6	2.156	2.993	12.4	20.8	9 28	2 58.12	+19 29.4	1.099	1.957	20.3	19.1
10 8	2 54.31	+ 2 30.3	2.073	2.980	9.6	20.6	10 8	2 55.43	+19 29.3	1.043	1.962	15.8	18.8
10 18	2 47.96	+ 1 25.5	2.014	2.967	6.8	20.4	10 18	2 49.39	+19 12.0	1.006	1.969	10.5	18.5
10 28	2 40.28	+ 0 24.8	1.982	2.953	4.9	20.3	10 28	2 40.98	+18 39.3	0.990	1.977	4.7	18.3
11 7	2 32.03	+ 0 26.0	1.978	2.940	5.7	20.3	11 7	2 31.75	+17 56.4	0.997	1.987	2.2	18.1
11 17	2 24.10	- 1 2.0	2.003	2.925	8.4	20.4	11 17	2 23.36	+17 11.1	1.028	1.998	7.8	18.5
11 27	2 17.33	- 1 20.0	2.054	2.911	11.5	20.6	11 27	2 17.29	+16 32.0	1.083	2.010	13.1	18.9
12 7	2 12.36	- 1 19.1	2.127	2.897	14.2	20.8	12 7	2 14.40	+16 5.9	1.157	2.024	17.6	19.2
<b>441</b>	<i>Bathilde</i>	11	3.4	311°65	2°5/ 5.4	18	<b>97693</b>	2000 <i>GX</i> <sub>45</sub>	11	3.4	211°57	2°9/31.2	18
9 28	2 58.78	+24 42.0	1.882	2.687	15.2	12.9	9 28	2 55.96	+ 9 24.8	2.552	3.383	10.9	19.8
10 8	2 54.83	+24 23.4	1.794	2.680	12.1	12.6	10 8	2 51.86	+ 8 6.2	2.473	3.381	8.3	19.6
10 18	2 48.52	+23 47.7	1.728	2.673	8.4	12.4	10 18	2 46.22	+ 6 42.1	2.419	3.378	5.4	19.4
10 28	2 40.54	+22 55.7	1.687	2.666	4.5	12.2	10 28	2 39.56	+ 5 17.4	2.394	3.376	3.1	19.3
11 7	2 31.89	+21 50.5	1.673	2.659	2.6	12.0	11 7	2 32.53	+ 3 57.5	2.400	3.373	3.8	19.3
11 17	2 23.65	+20 38.2	1.687	2.653	5.8	12.2	11 17	2 25.82	+ 2 47.4	2.436	3.370	6.4	19.5
11 27	2 16.90	+19 26.1	1.729	2.646	9.7	12.4	11 27	2 20.10	+ 1 51.5	2.499	3.367	9.3	19.6
12 7	2 12.39	+18 21.5	1.795	2.640	13.3	12.7	12 7	2 15.87	+ 1 11.8	2.587	3.364	11.8	19.8
<b>383052</b>	2005 <i>QA</i> <sub>90</sub>	11	3.4	354°95	1°6/ 2.6	18	<b>183497</b>	2003 <i>EH</i> <sub>46</sub>	11	3.4	150°10	3°6/31.2	18
9 28	2 56.54	+14 15.6	1.085	1.956	19.6	20.1	9 28	2 59.01	+ 5 50.6	2.395	3.226	11.6	21.0
10 8	2 54.29	+13 49.6	1.022	1.950	15.1	19.8	10 8	2 54.19	+ 4 59.2	2.326	3.232	8.8	20.9
10 18	2 48.73	+13 10.6	0.976	1.945	9.7	19.5	10 18	2 47.72	+ 4 6.1	2.282	3.238	5.9	20.7
10 28	2 40.74	+12 23.5	0.952	1.942	3.9	19.2	10 28	2 40.15	+ 3 15.8	2.266	3.243	3.8	20.6
11 7	2 31.78	+11 35.6	0.951	1.940	3.2	19.1	11 7	2 32.21	+ 2 32.7	2.279	3.249	4.3	20.6
11 17	2 23.50	+10 55.2	0.974	1.939	9.0	19.5	11 17	2 24.67	+ 2 0.7	2.322	3.253	6.9	20.8
11 27	2 17.43	+10 30.0	1.019	1.940	14.5	19.8	11 27	2 18.24	+ 1 42.6	2.392	3.258	9.7	21.0
12 7	2 14.52	+10 24.2	1.083	1.942	19.1	20.1	12 7	2 13.44	+ 1 39.2	2.485	3.262	12.2	21.2
<b>27694</b>	1981 <i>EX</i> <sub>34</sub>	11	3.4	154°22	3°5/31.6	18	<b>121358</b>	1999 <i>TR</i> <sub>54</sub>	11	3.4	275°34	0°9/ 4.1	17
9 28	2 58.98	+ 8 12.2	1.981	2.819	13.3	19.4	9 28	2 59.48	+19 10.4	2.219	3.030	13.0	20.3
10 8	2 54.56	+ 7 16.3	1.909	2.821	10.1	19.2	10 8	2 54.98	+19 2.1	2.127	3.020	10.1	20.1
10 18	2 48.12	+ 6 16.1	1.862	2.822	6.7	19.0	10 18	2 48.48	+18 43.8	2.058	3.011	6.7	19.9
10 28	2 40.33	+ 5 16.8	1.841	2.823	3.8	18.8	10 28	2 40.53	+18 16.4	2.016	3.001	3.0	19.6
11 7	2 32.05	+ 4 24.0	1.848	2.824	4.4	18.9	11 7	2 31.97	+17 42.7	2.002	2.991	1.4	19.5
11 17	2 24.22	+ 3 42.7	1.884	2.825	7.6	19.1	11 17	2 23.71	+17 6.4	2.018	2.981	5.2	19.7
11 27	2 17.71	+ 3 17.0	1.946	2.825	11.0	19.3	11 27	2 16.65	+16 32.2	2.062	2.971	8.9	19.9
12 7	2 13.14	+ 3 8.4	2.031	2.826	14.0	19.5	12 7	2 11.48	+16 4.5	2.131	2.962	12.1	20.1
<b>97072</b>	1999 <i>VU</i> <sub>27</sub>	11	3.4	59°62	1°1/ 4.2	18	<b>22018</b>	1999 <i>XK</i> <sub>105</sub>	11	3.4	357°04	4°3/ 7.0	18
9 28	3 2.81	+20 51.8	1.302	2.137	19.1	19.3	9 28	2 58.31	+29 16.0	1.925	2.711	15.6	17.7
10 8	2 58.43	+20 23.7	1.245	2.151	14.8	19.1	10 8	2 54.50	+29 14.5	1.842	2.710	12.7	17.5
10 18	2 51.00	+19 37.3	1.208	2.166	9.7	18.8	10 18	2 48.33	+28 54.2	1.779	2.708	9.4	17.3
10 28	2 41.51	+18 35.5	1.194	2.180	4.3	18.6	10 28	2 40.49	+28 14.2	1.741	2.707	6.1	17.1
11 7	2 31.43	+17 24.6	1.206	2.195	2.0	18.5	11 7	2 32.02	+27 16.8	1.729	2.707	4.3	17.0
11 17	2 22.25	+16 13.3	1.244	2.210	7.2	18.8	11 17	2 24.01	+26 7.0	1.745	2.707	6.1	17.1
11 27	2 15.27	+15 10.8	1.307	2.226	12.1	19.1	11 27	2 17.52	+24 52.2	1.788	2.707	9.4	17.3
12 7	2 11.21	+14 23.6	1.392	2.241	16.3	19.4	12 7	2 13.27	+23 40.3	1.856	2.708	12.7	17.6
<b>443368</b>	2014 <i>GK</i> <sub>53</sub>	11	3.4	200°66	0°2/ 3.6	18	<b>382520</b>	2001 <i>SZ</i> <sub>173</sub>	11	3.4	38°51	3°6/ 1.6	18
9 28	3 1.43	+18 3.9	1.945	2.763	14.3	21.0	9 28	3 1.74	+ 9 49.8	1.162	2.026	19.0	20.0
10 8	2 56.62	+17 40.4	1.863	2.762	11.1	20.7	10 8	2 57.61	+ 9 9.0	1.119	2.044	14.4	19.8
10 18	2 49.57	+17 5.6	1.804	2.760	7.2	20.5	10 18	2 50.44	+ 8 22.3	1.096	2.062	9.3	19.6
10 28	2 40.94	+16 21.6	1.770	2.758	2.9	20.2	10 28	2 41.29	+ 7 36.4	1.095	2.082	4.5	19.4
11 7	2 31.70	+15 32.2	1.766	2.755	1.5	20.1	11 7	2 31.65	+ 6 58.8	1.119	2.102	4.8	19.5
11 17	2 22.91	+14 42.7	1.790	2.752	5.9	20.4	11 17	2 23.00	+ 6 35.6	1.168	2.123	9.4	19.8
11 27	2 15.55	+13 58.7	1.842	2.749	9.9	20.7	11 27	2 16.59	+ 6 30.8	1.240	2.145	13.9	20.1
12 7	2 10.33	+13 25.0	1.918	2.746	13.4	20.9	12 7	2 13.10	+ 6 45.1	1.332	2.167	17.7	20.4
<b>100930</b>	1998 <i>MG</i> <sub>9</sub>	11	3.4	61°39	3°6/ 1.3	16	<b>222907</b>	2002 <i>HV</i> <sub>10</sub>	11	3.4	72°21</		

EPHEMERIDES

11 3.4

11 3.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>283726</b>	2002 <i>TR</i> <sub>230</sub>		11 3.4 32°98'	8:7/29.9	18		<b>511018</b>	2013 <i>QK</i> <sub>3</sub>		11 3.5 13°72'	0:7/ 3.0	18	
9 28	3 1.79	- 4 16.4	1.457	2.307	16.7	19.3	9 28	2 55.74	+16 57.2	0.914	1.793	21.7	20.7
10 8	2 57.12	- 5 9.3	1.412	2.318	13.4	19.1	10 8	2 54.01	+16 23.3	0.865	1.797	16.6	20.4
10 18	2 49.91	- 5 52.7	1.388	2.330	10.4	19.0	10 18	2 48.65	+15 31.1	0.833	1.803	10.7	20.2
10 28	2 41.06	- 6 18.7	1.387	2.342	8.7	19.0	10 28	2 40.74	+14 26.1	0.821	1.811	4.2	19.8
11 7	2 31.76	- 6 21.2	1.411	2.356	9.5	19.0	11 7	2 31.99	+13 17.8	0.831	1.820	2.8	19.8
11 17	2 23.25	- 5 58.1	1.460	2.369	12.0	19.2	11 17	2 24.21	+12 17.0	0.863	1.832	9.2	20.2
11 27	2 16.56	- 5 10.0	1.532	2.384	15.0	19.4	11 27	2 18.95	+11 33.2	0.917	1.844	14.9	20.6
12 7	2 12.37	- 4 0.9	1.624	2.399	17.7	19.7	12 7	2 17.05	+11 11.7	0.988	1.858	19.6	20.9
<b>448943</b>	2011 <i>WL</i> <sub>32</sub>		11 3.4 102°87'	2:2/ 1.9	18		<b>476858</b>	2008 <i>UJ</i> <sub>340</sub>		11 3.5 23°55'	1:7/ 4.5	18	
9 28	3 3.62	+ 9 26.0	2.028	2.855	13.5	20.9	9 28	3 1.61	+20 54.5	1.576	2.400	16.9	21.2
10 8	2 57.95	+ 9 12.4	1.964	2.868	10.2	20.7	10 8	2 57.30	+20 50.7	1.503	2.402	13.2	21.0
10 18	2 50.24	+ 8 55.7	1.923	2.882	6.6	20.5	10 18	2 50.27	+20 32.2	1.451	2.404	8.9	20.7
10 28	2 41.17	+ 8 38.9	1.910	2.895	3.0	20.3	10 28	2 41.32	+19 59.9	1.423	2.407	4.2	20.5
11 7	2 31.68	+ 8 25.3	1.925	2.908	3.0	20.3	11 7	2 31.64	+19 17.3	1.422	2.410	2.1	20.3
11 17	2 22.73	+ 8 18.2	1.970	2.921	6.5	20.6	11 17	2 22.54	+18 30.2	1.448	2.414	6.5	20.6
11 27	2 15.20	+ 8 20.3	2.043	2.934	9.9	20.8	11 27	2 15.24	+17 45.6	1.500	2.417	10.9	20.9
12 7	2 9.70	+ 8 33.0	2.140	2.946	12.9	21.1	12 7	2 10.53	+17 9.8	1.575	2.421	14.8	21.1
<b>50068</b>	2000 <i>AR</i> <sub>77</sub>		11 3.4 185°60'	2:9/ 1.3	18		<b>480204</b>	2015 <i>FY</i> <sub>363</sub>		11 3.5 152°78'	0:1/ 3.3	17	
9 28	3 3.37	+ 9 59.3	1.929	2.758	14.0	19.3	9 28	3 3.89	+17 48.9	1.665	2.489	16.1	21.5
10 8	2 58.00	+ 9 11.0	1.852	2.759	10.7	19.1	10 8	2 58.76	+17 13.7	1.592	2.495	12.4	21.2
10 18	2 50.40	+ 8 16.8	1.799	2.758	6.9	18.9	10 18	2 51.06	+16 25.4	1.542	2.500	8.0	21.0
10 28	2 41.28	+ 7 21.3	1.773	2.757	3.5	18.7	10 28	2 41.60	+15 26.8	1.517	2.504	3.2	20.7
11 7	2 31.60	+ 6 29.9	1.776	2.756	3.8	18.7	11 7	2 31.51	+14 23.4	1.520	2.509	1.8	20.6
11 17	2 22.39	+ 5 48.0	1.807	2.753	7.4	18.9	11 17	2 22.04	+13 21.9	1.551	2.512	6.7	21.0
11 27	2 14.63	+ 5 20.1	1.866	2.750	11.1	19.1	11 27	2 14.31	+12 29.2	1.609	2.516	11.1	21.2
12 7	2 8.99	+ 5 8.4	1.948	2.746	14.4	19.4	12 7	2 9.08	+11 50.6	1.690	2.519	14.8	21.5
<b>133703</b>	2003 <i>UY</i> <sub>231</sub>		11 3.4 247°59'	0:2/ 3.6	17		<b>50342</b>	2000 <i>CT</i> <sub>63</sub>		11 3.5 327°42'	2:1/ 4.7	18	
9 28	2 58.58	+17 15.8	2.502	3.314	11.7	20.7	9 28	2 58.07	+22 18.1	1.257	2.099	19.3	19.3
10 8	2 54.03	+17 1.1	2.411	3.306	9.0	20.5	10 8	2 55.42	+22 4.3	1.176	2.084	15.3	19.0
10 18	2 47.73	+16 38.3	2.343	3.298	5.9	20.3	10 18	2 49.53	+21 29.7	1.114	2.071	10.4	18.7
10 28	2 40.21	+16 8.8	2.304	3.291	2.4	20.1	10 28	2 41.17	+20 34.8	1.073	2.058	5.1	18.3
11 7	2 32.18	+15 35.5	2.294	3.283	1.2	20.0	11 7	2 31.69	+19 24.4	1.057	2.046	2.5	18.2
11 17	2 24.44	+15 1.8	2.313	3.275	4.8	20.2	11 17	2 22.70	+18 7.0	1.066	2.035	7.7	18.4
11 27	2 17.75	+14 31.6	2.362	3.267	8.1	20.4	11 27	2 15.78	+16 53.7	1.099	2.025	13.1	18.7
12 7	2 12.69	+14 8.4	2.436	3.258	11.0	20.6	12 7	2 11.97	+15 53.9	1.152	2.016	17.9	19.0
<b>49805</b>	1999 <i>XC</i> <sub>36</sub>		11 3.5 328°45'	10:5/28.9	18		<b>430731</b>	2004 <i>GL</i> <sub>23</sub>		11 3.5 154°08'	1:0/ 2.7	16	
9 28	3 1.66	- 5 21.3	1.276	2.133	18.1	17.8	9 28	3 3.78	+14 58.5	1.975	2.794	14.1	22.0
10 8	2 57.70	- 6 32.6	1.215	2.123	14.9	17.6	10 8	2 58.22	+14 20.2	1.902	2.803	10.7	21.8
10 18	2 50.70	- 7 34.5	1.173	2.114	12.0	17.4	10 18	2 50.50	+13 32.7	1.852	2.811	6.8	21.6
10 28	2 41.51	- 8 16.3	1.153	2.105	10.5	17.3	10 28	2 41.33	+12 39.2	1.830	2.818	2.7	21.3
11 7	2 31.48	- 8 28.9	1.157	2.097	11.6	17.3	11 7	2 31.66	+11 44.7	1.837	2.824	2.2	21.3
11 17	2 22.07	- 8 7.8	1.183	2.089	14.5	17.5	11 17	2 22.54	+10 54.4	1.874	2.830	6.2	21.6
11 27	2 14.66	- 7 13.2	1.230	2.082	17.9	17.7	11 27	2 14.89	+10 13.5	1.938	2.835	10.1	21.8
12 7	2 10.12	- 5 50.0	1.295	2.076	21.1	17.9	12 7	2 9.36	+ 9 45.6	2.027	2.840	13.3	22.1
<b>107536</b>	2001 <i>DC</i> <sub>68</sub>		11 3.5 301°23'	2:1/ 4.7	18		<b>513137</b>	2001 <i>RF</i> <sub>42</sub>		11 3.5 120°68'	9:8/14.5	18	
9 28	3 1.37	+21 3.4	1.632	2.454	16.5	20.6	9 28	3 15.30	+50 6.6	2.645	3.253	15.6	22.4
10 8	2 57.46	+21 9.5	1.530	2.427	13.1	20.3	10 8	3 7.62	+51 15.3	2.574	3.273	14.1	22.3
10 18	2 50.67	+21 1.7	1.448	2.400	9.0	20.0	10 18	2 56.90	+52 1.7	2.520	3.293	12.5	22.2
10 28	2 41.61	+20 39.5	1.390	2.373	4.5	19.7	10 28	2 43.98	+52 20.3	2.488	3.313	11.1	22.2
11 7	2 31.35	+20 4.8	1.358	2.346	2.4	19.5	11 7	2 30.19	+52 8.3	2.479	3.331	10.1	22.1
11 17	2 21.26	+19 22.3	1.354	2.319	6.8	19.7	11 17	2 17.03	+51 27.1	2.495	3.349	9.9	22.2
11 27	2 12.76	+18 39.1	1.375	2.293	11.7	19.9	11 27	2 5.90	+50 22.1	2.536	3.366	10.5	22.2
12 7	2 6.91	+18 2.4	1.419	2.267	16.1	20.1	12 7	1 57.70	+49 1.9	2.602	3.383	11.6	22.3
<b>226972</b>	2004 <i>WV</i> <sub>1</sub>		11 3.5 246°53'	0:1/ 3.3	17		<b>517112</b>	2013 <i>GO</i>		11 3.5 193°53'	2:3/ 1.4	18	
9 28	2 58.91	+16 13.2	2.453	3.267	11.8	21.0	9 28	3 0.18	+ 9 0.6	2.520	3.343	11.3	22.7
10 8	2 54.31	+15 56.3	2.361	3.259	9.1	20.8	10 8	2 55.11	+ 8 29.6	2.438	3.341	8.6	22.5
10 18	2 47.93	+15 31.8	2.294	3.250	5.9	20.6	10 18	2 48.36	+ 7 55.4	2.381	3.339	5.6	22.4
10 28	2 40.30	+15 1.3	2.254	3.242	2.3	20.4	10 28	2 40.46	+ 7 21.0	2.352	3.336	2.8	22.2
11 7	2 32.16	+14 27.7	2.244	3.233	1.4	20.3	11 7	2 32.13	+ 6 50.0	2.353	3.333	3.0	22.2
11 17	2 24.29	+13 54.6	2.264	3.224	5.0	20.5	11 17	2 24.12	+ 6 25.8	2.384	3.329	5.9	22.4
11 27	2 17.49	+13 26.0	2.312	3.215	8.4	20.7	11 27	2 17.17	+ 6 11.2	2.444	3.325	8.9	22.6
12 7	2 12.36	+13 5.1	2.385	3.205	11.3	20.9	12 7	2 11.82	+ 6 8.1	2.528	3.321	11.6	22.7
<b>320788</b>	2008 <i>EX</i> <sub>140</sub>		11 3.5 310°79'	6:8/ 7.6	17		<b>132603</b>	2002 <i>KK</i> <sub>6</sub>		11 3.5 68°08'	5:7/ 8.4	18	
9 28	3 3.85	+31 40.7	1.833	2.604	16.9	20.7	9 28	3 4.97	+33 34.4	1.731	2.496	17.9	19.1
10 8	2 59.31	+32 38.6	1.738	2.589	14.2	20.5	10 8	2 59.56	+33 30.6	1.675	2.523	14.7	19.0
10 18	2 51.84	+33 19.8	1.663	2.574	11.2	20.3	10 18	2 51.48	+33 2.7	1.637	2.551	11.2	18.8
10 28	2 42.07	+33 39.7	1.611	2.560	8.3	20.1	10 28	2 41.70	+32 9.8	1.623	2.578	7.7	18.7
11 7	2 31.13	+33 36.2	1.584	2.546	6.8	19.9	11 7	2 31.52	+30 54.9	1.636	2.605	5.7	18.6
11 17	2 20.43	+33 10.9	1.585	2.532	8.1	20.0	11 17	2 22.26	+29 25.0	1.676	2.632	6.9	18.7
11 27	2 11.39	+32 29.6	1.611	2.519	11.0	20.1	11 27	2 15.01	+27 49.7	1.743	2.659	9.8	19.0
12 7	2 5.07	+31 40.8	1.660	2.506	14.2	20.3	12 7	2 10.41	+26 18.5	1.836	2.685	12.9	19.2
<b>268908</b>	2007 <i>CW</i> <sub>6</sub>		11 3.5 200°10'	1:2/ 2.6	18		<b>411845</b>	2012 <i>DU</i> <sub>61</sub>		11 3.5 216°28'	3:		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>50050</b>	2000 <i>AB</i> <sub>63</sub>		11 3.5 264°46	7°9/ 9.4 18			<b>158466</b>	2002 <i>CS</i> <sub>224</sub>		11 3.5 145°56	4°2/ 6.9 17		
9 28	3 5.11	+37 25.8	2.042	2.773	16.6	19.7	9 28	3 3.24	+29 3.9	2.436	3.199	13.4	20.5
10 8	3 0.12	+38 12.1	1.944	2.760	14.3	19.5	10 8	2 57.80	+29 30.3	2.352	3.204	10.9	20.4
10 18	2 52.27	+38 38.3	1.866	2.748	11.8	19.3	10 18	2 50.28	+29 43.0	2.290	3.209	8.2	20.2
10 28	2 42.23	+38 39.6	1.810	2.735	9.3	19.1	10 28	2 41.31	+29 40.2	2.254	3.213	5.5	20.0
11 7	2 31.12	+38 14.0	1.779	2.722	8.0	19.0	11 7	2 31.74	+29 22.6	2.246	3.217	4.2	20.0
11 17	2 20.33	+37 23.4	1.775	2.709	8.5	19.0	11 17	2 22.54	+28 52.6	2.267	3.221	5.5	20.1
11 27	2 11.22	+36 14.2	1.797	2.695	10.6	19.1	11 27	2 14.63	+28 14.9	2.317	3.225	8.1	20.2
12 7	2 4.77	+34 55.8	1.843	2.682	13.4	19.2	12 7	2 8.69	+27 35.1	2.393	3.228	10.8	20.4
<b>303640</b>	2005 <i>JC</i> <sub>145</sub>		11 3.5 74°09	1°0/ 4.3 18			<b>128595</b>	2004 <i>QK</i> <sub>10</sub>		11 3.5 341°70	6°5/ 29.6 18		
9 28	2 59.86	+21 54.1	1.854	2.668	15.1	19.9	9 28	2 58.78	- 1 32.4	1.949	2.790	13.4	19.2
10 8	2 55.41	+21 9.3	1.786	2.680	11.7	19.7	10 8	2 54.47	- 2 27.4	1.882	2.787	10.6	19.0
10 18	2 48.74	+20 9.0	1.741	2.693	7.7	19.5	10 18	2 48.14	- 3 18.3	1.839	2.784	8.0	18.8
10 28	2 40.63	+18 55.8	1.721	2.706	3.4	19.3	10 28	2 40.44	- 3 59.0	1.821	2.781	6.6	18.7
11 7	2 32.09	+17 35.3	1.730	2.719	1.6	19.2	11 7	2 32.23	- 4 23.8	1.831	2.778	7.4	18.8
11 17	2 24.16	+16 14.4	1.767	2.732	5.7	19.5	11 17	2 24.46	- 4 29.1	1.867	2.776	9.8	18.9
11 27	2 17.78	+15 0.3	1.833	2.744	9.6	19.7	11 27	2 18.01	- 4 13.5	1.927	2.774	12.6	19.1
12 7	2 13.56	+13 58.8	1.922	2.757	13.0	20.0	12 7	2 13.49	- 3 38.1	2.009	2.773	15.2	19.3
<b>509608</b>	2008 <i>ES</i> <sub>91</sub>		11 3.5 200°22	10°3/ 25.9 18			<b>80859</b>	2000 <i>DD</i> <sub>25</sub>		11 3.5 12°58	4°1/ 1.1 18		
9 28	3 5.69	-14 49.4	2.185	2.982	13.7	22.2	9 28	2 57.92	+10 31.5	1.139	2.010	18.9	18.5
10 8	2 59.51	-16 10.7	2.125	2.977	11.9	22.0	10 8	2 55.03	+ 9 29.1	1.084	2.012	14.4	18.2
10 18	2 51.28	-17 19.1	2.088	2.972	10.6	21.9	10 18	2 49.04	+ 8 17.5	1.047	2.016	9.3	17.9
10 28	2 41.65	-18 6.9	2.077	2.965	10.3	21.9	10 28	2 40.89	+ 7 4.6	1.034	2.020	4.8	17.7
11 7	2 31.53	-18 28.4	2.091	2.958	11.1	21.9	11 7	2 32.01	+ 6 0.1	1.044	2.025	5.4	17.8
11 17	2 21.88	-18 21.0	2.130	2.950	12.7	22.0	11 17	2 23.91	+ 5 12.8	1.078	2.032	10.1	18.1
11 27	2 13.60	-17 45.2	2.192	2.940	14.6	22.2	11 27	2 17.94	+ 4 48.6	1.134	2.039	14.9	18.4
12 7	2 7.33	-16 44.7	2.273	2.930	16.3	22.3	12 7	2 14.90	+ 4 49.1	1.210	2.047	19.0	18.6
<b>42708</b>	1998 <i>QD</i> <sub>11</sub>		11 3.5 129°48	8°8/ 27.3 18			<b>369482</b>	2010 <i>TW</i> <sub>170</sub>		11 3.5 27°15	0°7/ 3.9 17		
9 28	3 2.46	-10 21.1	2.153	2.969	13.2	18.4	9 28	2 59.32	+20 13.4	1.042	1.901	21.2	19.8
10 8	2 56.88	-11 38.6	2.109	2.983	11.1	18.3	10 8	2 56.45	+19 39.3	0.990	1.909	16.4	19.6
10 18	2 49.46	-12 45.2	2.089	2.996	9.4	18.2	10 18	2 50.08	+18 44.0	0.955	1.918	10.7	19.3
10 28	2 40.87	-13 34.0	2.094	3.009	8.8	18.2	10 28	2 41.32	+17 31.4	0.941	1.929	4.5	19.0
11 7	2 31.98	-14 0.0	2.126	3.022	9.6	18.3	11 7	2 31.80	+16 10.2	0.951	1.940	2.1	18.9
11 17	2 23.64	-14 0.9	2.183	3.033	11.3	18.4	11 17	2 23.25	+14 51.2	0.984	1.953	8.2	19.3
11 27	2 16.66	-13 37.2	2.264	3.045	13.2	18.6	11 27	2 17.16	+13 45.4	1.041	1.966	13.8	19.6
12 7	2 11.55	-12 51.6	2.365	3.055	15.0	18.7	12 7	2 14.34	+12 59.9	1.117	1.980	18.4	20.0
<b>458014</b>	2009 <i>WP</i> <sub>120</sub>		11 3.5 180°38	1°7/ 5.1 18			<b>367939</b>	2012 <i>DB</i> <sub>6</sub>		11 3.5 220°17	3°6/ 31.2 17		
9 28	2 58.17	+23 24.8	2.553	3.346	12.0	21.7	9 28	2 59.15	+ 4 3.6	2.647	3.473	10.7	21.6
10 8	2 53.70	+23 4.1	2.466	3.346	9.5	21.5	10 8	2 54.28	+ 3 26.2	2.563	3.466	8.3	21.4
10 18	2 47.51	+22 31.2	2.403	3.346	6.5	21.3	10 18	2 47.83	+ 2 48.6	2.505	3.458	5.7	21.2
10 28	2 40.15	+21 47.4	2.366	3.346	3.3	21.1	10 28	2 40.29	+ 2 14.4	2.475	3.450	3.8	21.1
11 7	2 32.35	+20 55.2	2.359	3.346	1.8	21.0	11 7	2 32.33	+ 1 47.3	2.474	3.441	4.3	21.1
11 17	2 24.91	+19 58.6	2.382	3.346	4.5	21.2	11 17	2 24.63	+ 1 30.3	2.503	3.432	6.6	21.3
11 27	2 18.55	+19 2.6	2.434	3.345	7.6	21.4	11 27	2 17.91	+ 1 25.8	2.560	3.423	9.3	21.4
12 7	2 13.85	+18 11.9	2.513	3.345	10.4	21.6	12 7	2 12.67	+ 1 34.6	2.641	3.413	11.7	21.6
<b>137874</b>	2000 <i>AV</i> <sub>93</sub>		11 3.5 267°00	0°7/ 3.0 18			<b>392540</b>	2011 <i>RG</i> <sub>6</sub>		11 3.5 38°63	3°5/ 31.7 18		
9 28	3 3.11	+15 29.6	1.615	2.447	16.1	20.0	9 28	2 58.74	+10 2.8	1.712	2.557	14.8	21.0
10 8	2 58.56	+15 8.1	1.524	2.431	12.5	19.7	10 8	2 54.70	+ 8 52.2	1.644	2.560	11.2	20.8
10 18	2 51.23	+14 35.5	1.455	2.415	8.1	19.4	10 18	2 48.41	+ 7 34.3	1.600	2.562	7.3	20.6
10 28	2 41.81	+13 54.3	1.411	2.399	3.2	19.1	10 28	2 40.58	+ 6 15.5	1.581	2.565	3.9	20.4
11 7	2 31.41	+13 8.9	1.393	2.382	2.2	19.0	11 7	2 32.23	+ 5 3.1	1.590	2.568	4.6	20.5
11 17	2 21.35	+12 25.5	1.404	2.365	7.3	19.2	11 17	2 24.40	+ 4 3.9	1.626	2.571	8.2	20.7
11 27	2 12.95	+11 50.6	1.440	2.348	12.1	19.5	11 27	2 18.09	+ 3 23.1	1.688	2.574	12.0	20.9
12 7	2 7.13	+11 29.3	1.499	2.330	16.3	19.7	12 7	2 13.95	+ 3 2.8	1.772	2.577	15.3	21.1
<b>229379</b>	2005 <i>SZ</i> <sub>9</sub>		11 3.5 340°24	0°6/ 3.1 18			<b>445165</b>	2008 <i>YD</i> <sub>157</sub>		11 3.5 186°53	0°4/ 3.2 18		
9 28	2 55.92	+16 22.2	1.136	2.002	19.3	20.0	9 28	3 1.53	+16 12.3	2.197	3.013	13.0	22.5
10 8	2 53.91	+16 0.4	1.062	1.987	15.0	19.7	10 8	2 56.47	+15 46.4	2.114	3.013	10.0	22.3
10 18	2 48.63	+15 23.2	1.006	1.973	9.8	19.3	10 18	2 49.42	+15 11.6	2.055	3.012	6.4	22.0
10 28	2 40.85	+14 33.8	0.972	1.961	3.9	19.0	10 28	2 40.99	+14 30.1	2.023	3.011	2.5	21.8
11 7	2 31.94	+13 38.8	0.961	1.950	2.5	18.8	11 7	2 32.05	+13 45.7	2.021	3.009	1.6	21.7
11 17	2 23.56	+12 47.0	0.974	1.941	8.6	19.2	11 17	2 23.49	+13 2.8	2.048	3.007	5.5	22.0
11 27	2 17.28	+12 7.4	1.009	1.933	14.2	19.5	11 27	2 16.20	+12 26.1	2.104	3.005	9.1	22.2
12 7	2 14.13	+11 46.2	1.063	1.926	19.1	19.7	12 7	2 10.81	+11 59.2	2.184	3.002	12.3	22.4
<b>48737</b>	<i>Cusinato</i>		11 3.5 166°89	0°4/ 3.8 18			<b>45</b>	<i>Eugenia</i>		11 3.5 159°63	3°2/ 31.9 18		
9 28	3 5.18	+18 21.5	1.956	2.766	14.6	19.8	9 28	3 0.24	+ 8 20.3	2.093	2.927	12.9	12.2
10 8	2 59.45	+18 3.8	1.878	2.771	11.2	19.6	10 8	2 55.45	+ 7 31.5	2.022	2.930	9.8	12.0
10 18	2 51.40	+17 34.9	1.822	2.776	7.4	19.4	10 18	2 48.73	+ 6 38.8	1.974	2.933	6.4	11.8
10 28	2 41.75	+16 56.5	1.793	2.780	3.1	19.1	10 28	2 40.70	+ 5 46.8	1.953	2.936	3.6	11.6
11 7	2 31.51	+16 12.3	1.794	2.783	1.5	19.0	11 7	2 32.21	+ 5 0.5	1.962	2.938	4.0	11.7
11 17	2 21.79	+15 27.0	1.823	2.785	5.8	19.3	11 17	2 24.16	+ 4 24.5	1.999	2.941	7.1	11.9
11 27	2 13.59	+14 46.4	1.881	2.787	9.8	19.5	11 27	2 17.39	+ 4 2.4	2.063	2.942	10.4	12.1
12 7	2 7.64	+14 15.2	1.964	2.788	13.3	19.8	12 7	2 12.50	+ 3 55.7	2.150	2.944	13.3	12.3
<b>113989</b>	2002 <i>UF</i> <sub>27</sub>		11 3.5 94°52	2°3/ 4.6 18			<b>479001</b>	2012 <i>XX</i> <sub>137</sub>		11 3.5 357°32	0°5/ 3.3 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>365853</b>	2011 <i>UG</i> <sub>113</sub>	11	3.5 254°52	4°0/ 1.4 18			<b>142838</b>	2002 <i>VZ</i> <sub>15</sub>	11	3.5 292°64	1°7/ 4.7 18		
9 28	3 7.80	+ 2 38.8	2.124	2.943	13.2	20.5	9 28	3 0.52	+21 36.4	1.872	2.685	15.0	19.9
10 8	3 1.34	+ 2 42.8	2.034	2.932	10.3	20.2	10 8	2 56.22	+21 27.6	1.786	2.678	11.8	19.7
10 18	2 52.65	+ 2 49.9	1.969	2.920	7.1	20.0	10 18	2 49.54	+21 5.1	1.721	2.671	8.0	19.5
10 28	2 42.33	+ 3 3.2	1.931	2.908	4.4	19.8	10 28	2 41.14	+20 29.5	1.681	2.664	3.9	19.2
11 7	2 31.30	+ 3 25.5	1.924	2.896	4.6	19.8	11 7	2 32.02	+19 43.9	1.669	2.657	2.0	19.1
11 17	2 20.59	+ 3 58.4	1.946	2.884	7.6	20.0	11 17	2 23.30	+18 53.2	1.685	2.651	5.8	19.3
11 27	2 11.20	+ 4 42.8	1.997	2.871	10.9	20.2	11 27	2 16.05	+18 3.8	1.729	2.644	9.9	19.5
12 7	2 3.88	+ 5 38.2	2.072	2.859	14.0	20.4	12 7	2 11.05	+17 21.7	1.796	2.638	13.5	19.8
<b>434650</b>	2005 <i>YA</i> <sub>27</sub>	11	3.5 11°33	0°0/ 3.4 18			<b>444549</b>	2006 <i>SB</i> <sub>298</sub>	11	3.5 37°10	1°0/ 4.1 17		
9 28	3 1.24	+16 12.5	1.339	2.186	18.0	20.7	9 28	3 1.97	+18 20.1	1.605	2.433	16.4	21.3
10 8	2 57.38	+16 4.9	1.273	2.187	13.9	20.4	10 8	2 57.42	+18 24.2	1.541	2.444	12.7	21.1
10 18	2 50.53	+15 45.6	1.226	2.189	9.0	20.2	10 18	2 50.30	+18 16.8	1.499	2.455	8.3	20.9
10 28	2 41.55	+15 16.9	1.203	2.192	3.6	19.8	10 28	2 41.41	+17 59.3	1.481	2.467	3.6	20.7
11 7	2 31.75	+14 43.7	1.206	2.195	2.0	19.8	11 7	2 31.91	+17 34.8	1.490	2.480	1.7	20.6
11 17	2 22.61	+14 11.8	1.234	2.199	7.5	20.1	11 17	2 23.05	+17 8.0	1.527	2.492	6.3	20.9
11 27	2 15.47	+13 47.8	1.287	2.204	12.4	20.4	11 27	2 15.95	+16 44.5	1.590	2.506	10.6	21.2
12 7	2 11.19	+13 36.5	1.361	2.209	16.6	20.7	12 7	2 11.34	+16 28.9	1.676	2.519	14.2	21.4
<b>267553</b>	2002 <i>PV</i> <sub>176</sub>	11	3.5 317°52	8°1/26.9 18			<b>490422</b>	2009 <i>SM</i> <sub>56</sub>	11	3.5 27°22	3°7/ 6.3 17		
9 28	2 56.78	- 7 11.2	2.158	2.991	12.6	20.3	9 28	3 0.34	+26 20.7	1.910	2.706	15.4	21.2
10 8	2 52.82	- 8 30.8	2.094	2.984	10.4	20.1	10 8	2 56.02	+26 35.8	1.836	2.712	12.4	21.0
10 18	2 47.05	- 9 43.3	2.054	2.977	8.7	20.0	10 18	2 49.34	+26 35.3	1.783	2.719	8.9	20.8
10 28	2 40.04	-10 41.8	2.039	2.970	8.1	20.0	10 28	2 41.03	+26 18.4	1.755	2.727	5.4	20.6
11 7	2 32.57	-11 20.4	2.050	2.963	9.0	20.0	11 7	2 32.10	+25 46.8	1.754	2.735	3.7	20.6
11 17	2 25.47	-11 35.4	2.087	2.956	10.9	20.1	11 17	2 23.67	+25 4.7	1.781	2.743	5.9	20.7
11 27	2 19.52	-11 25.8	2.147	2.950	13.1	20.3	11 27	2 16.78	+24 18.0	1.834	2.752	9.3	20.9
12 7	2 15.31	-10 53.2	2.227	2.943	15.2	20.4	12 7	2 12.13	+23 33.5	1.913	2.761	12.5	21.2
<b>96556</b>	1998 <i>ST</i> <sub>126</sub>	11	3.5 75°81	0°2/ 3.4 18			<b>185634</b>	2008 <i>DR</i> <sub>11</sub>	11	3.5 277°18	2°6/ 1.8 18		
9 28	3 2.98	+14 52.9	2.183	2.998	13.1	19.2	9 28	3 1.25	+13 3.3	1.435	2.282	17.0	20.6
10 8	2 57.41	+14 56.3	2.119	3.017	9.9	19.1	10 8	2 57.25	+12 7.8	1.359	2.276	13.0	20.3
10 18	2 49.92	+14 53.4	2.080	3.036	6.4	18.9	10 18	2 50.41	+11 0.5	1.304	2.269	8.4	20.0
10 28	2 41.16	+14 45.6	2.067	3.055	2.5	18.7	10 28	2 41.53	+ 9 46.9	1.274	2.262	3.7	19.7
11 7	2 32.00	+14 35.4	2.085	3.074	1.4	18.6	11 7	2 31.82	+ 8 34.9	1.270	2.255	3.8	19.7
11 17	2 23.36	+14 25.5	2.131	3.092	5.2	18.9	11 17	2 22.65	+ 7 32.7	1.293	2.248	8.6	20.0
11 27	2 16.06	+14 19.3	2.207	3.111	8.7	19.2	11 27	2 15.30	+ 6 47.7	1.340	2.241	13.3	20.3
12 7	2 10.68	+14 19.3	2.307	3.129	11.6	19.4	12 7	2 10.64	+ 6 23.8	1.408	2.234	17.4	20.5
<b>399645</b>	2004 <i>RS</i> <sub>22</sub>	11	3.5 5°45	4°4/31.2 18			<b>70407</b>	1999 <i>SE</i> <sub>1</sub>	11	3.5 346°61	1°6/ 2.7 18		
9 28	2 55.93	+ 7 16.3	1.609	2.465	15.0	20.0	9 28	2 58.41	+12 49.3	1.270	2.139	17.9	18.7
10 8	2 52.72	+ 6 13.4	1.545	2.466	11.4	19.8	10 8	2 55.43	+12 37.6	1.207	2.129	13.8	18.4
10 18	2 47.21	+ 5 6.4	1.504	2.467	7.6	19.6	10 18	2 49.44	+12 17.2	1.154	2.120	8.9	18.1
10 28	2 40.15	+ 4 1.9	1.488	2.469	4.7	19.4	10 28	2 41.20	+11 51.8	1.124	2.112	3.6	17.8
11 7	2 32.54	+ 3 7.1	1.498	2.472	5.5	19.5	11 7	2 31.99	+11 26.6	1.118	2.106	3.0	17.8
11 17	2 25.45	+ 2 28.1	1.534	2.476	8.9	19.7	11 17	2 23.31	+11 7.4	1.138	2.101	8.3	18.1
11 27	2 19.88	+ 2 8.7	1.595	2.480	12.6	19.9	11 27	2 16.55	+10 59.9	1.181	2.097	13.4	18.3
12 7	2 16.48	+ 2 10.2	1.677	2.486	15.8	20.2	12 7	2 12.67	+11 7.6	1.244	2.094	17.7	18.6
<b>444593</b>	2006 <i>UX</i> <sub>112</sub>	11	3.5 339°88	0°8/ 4.1 18			<b>100563</b>	1997 <i>GW</i> <sub>26</sub>	11	3.5 131°24	0°6/ 3.1 18		
9 28	3 0.36	+18 59.3	1.822	2.644	15.0	21.3	9 28	3 4.09	+15 58.3	1.657	2.485	16.0	20.6
10 8	2 56.06	+18 49.7	1.742	2.642	11.6	21.1	10 8	2 58.93	+15 29.3	1.588	2.493	12.2	20.4
10 18	2 49.40	+18 28.3	1.684	2.640	7.7	20.9	10 18	2 51.23	+14 49.5	1.541	2.500	7.9	20.2
10 28	2 41.05	+17 56.6	1.651	2.637	3.4	20.6	10 28	2 41.78	+14 1.8	1.519	2.507	3.1	19.9
11 7	2 32.04	+17 18.0	1.646	2.635	1.6	20.5	11 7	2 31.73	+13 11.4	1.526	2.514	2.1	19.9
11 17	2 23.47	+16 37.2	1.669	2.634	5.9	20.8	11 17	2 22.30	+12 24.2	1.560	2.521	6.8	20.2
11 27	2 16.39	+16 0.1	1.719	2.632	10.1	21.0	11 27	2 14.62	+11 46.3	1.621	2.527	11.1	20.5
12 7	2 11.56	+15 31.6	1.792	2.631	13.7	21.3	12 7	2 9.40	+11 21.8	1.705	2.533	14.8	20.7
<b>189903</b>	2003 <i>SW</i> <sub>95</sub>	11	3.5 344°99	3°1/ 5.7 17			<b>179322</b>	2001 <i>WF</i> <sub>44</sub>	11	3.5 22°96	1°5/ 2.5 18		
9 28	2 58.37	+24 21.3	1.845	2.654	15.4	19.4	9 28	3 0.04	+12 51.2	1.792	2.629	14.6	20.4
10 8	2 54.69	+24 32.7	1.760	2.646	12.3	19.2	10 8	2 55.69	+12 27.8	1.721	2.631	11.1	20.2
10 18	2 48.60	+24 29.4	1.696	2.639	8.7	18.9	10 18	2 49.08	+11 57.3	1.673	2.634	7.1	19.9
10 28	2 40.77	+24 10.9	1.656	2.633	5.0	18.7	10 28	2 40.92	+11 23.0	1.650	2.638	2.9	19.7
11 7	2 32.19	+23 39.1	1.643	2.627	3.2	18.6	11 7	2 32.18	+10 49.3	1.655	2.641	2.6	19.7
11 17	2 23.98	+22 58.0	1.657	2.622	5.9	18.8	11 17	2 23.94	+10 21.0	1.688	2.645	6.7	20.0
11 27	2 17.25	+22 13.8	1.698	2.618	9.7	19.0	11 27	2 17.18	+10 2.4	1.747	2.649	10.6	20.2
12 7	2 12.78	+21 32.9	1.763	2.614	13.3	19.2	12 7	2 12.59	+ 9 56.4	1.829	2.654	14.0	20.4
<b>3520</b>	<i>Klopsteg</i>	11	3.5 45°67	4°4/ 1.3 18			<b>429778</b>	2012 <i>GK</i> <sub>22</sub>	11	3.5 107°08	4°0/31.9 17		
9 28	3 3.42	+ 8 46.1	1.096	1.962	19.8	16.1	9 28	3 3.54	+ 8 52.1	1.496	2.342	16.5	21.0
10 8	2 59.10	+ 7 59.3	1.054	1.979	15.0	15.8	10 8	2 58.58	+ 7 49.8	1.438	2.353	12.5	20.8
10 18	2 51.54	+ 7 7.5	1.031	1.997	9.8	15.6	10 18	2 51.00	+ 6 41.8	1.402	2.364	8.2	20.6
10 28	2 41.88	+ 6 18.3	1.030	2.015	5.1	15.4	10 28	2 41.68	+ 5 34.9	1.391	2.374	4.5	20.4
11 7	2 31.69	+ 5 39.9	1.054	2.034	5.5	15.5	11 7	2 31.83	+ 4 36.7	1.407	2.384	5.1	20.5
11 17	2 22.57	+ 5 18.5	1.101	2.054	10.1	15.8	11 17	2 22.70	+ 3 53.6	1.450	2.394	9.0	20.7
11 27	2 15.83	+ 5 17.9	1.172	2.074	14.7	16.2	11 27	2 15.43	+ 3 30.2	1.517	2.404	13.0	21.0
12 7	2 12.18	+ 5 38.1	1.262	2.095	18.6	16.5	12 7	2 10.70	+ 3 27.6	1.607	2.413	16.5	21.2
<b>8571</b>	<i>Taniguchi</i>	11	3.5 329°11	0°4/ 3.8 18 R			<b>481952</b>	2009 <i>DF</i> <sub>75</sub>	11	3.5 243°65	0°5/ 3.1 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>37880</b>	1998 <i>FP</i> <sub>47</sub>		11 3.5 52°70	3°9/ 5.8 18			<b>96587</b>	1998 <i>WK</i> <sub>15</sub>		11 3.5 356°21	2°6/ 1.8 18		
9 28	3 5.19	+24 46.4	1.491	2.302	18.3	18.4	9 28	2 55.87	+10 54.8	1.584	2.438	15.3	18.6
10 8	3 0.19	+25 13.1	1.432	2.318	14.6	18.2	10 8	2 52.84	+10 20.4	1.513	2.433	11.7	18.3
10 18	2 52.22	+25 22.5	1.392	2.334	10.3	18.0	10 18	2 47.42	+9 39.4	1.463	2.429	7.5	18.1
10 28	2 42.22	+25 13.2	1.375	2.351	6.0	17.8	10 28	2 40.32	+8 56.3	1.439	2.426	3.5	17.9
11 7	2 31.54	+24 47.2	1.384	2.367	3.9	17.7	11 7	2 32.57	+8 16.9	1.440	2.424	3.6	17.9
11 17	2 21.63	+24 9.4	1.420	2.385	6.8	18.0	11 17	2 25.28	+7 46.8	1.468	2.423	7.7	18.1
11 27	2 13.80	+23 27.4	1.482	2.402	10.9	18.2	11 27	2 19.53	+7 30.7	1.520	2.423	11.9	18.4
12 7	2 8.83	+22 49.0	1.567	2.420	14.6	18.5	12 7	2 16.04	+7 30.9	1.594	2.425	15.5	18.6
<b>393330</b>	2014 <i>BT</i> <sub>22</sub>		11 3.5 313°53	2°8/ 1.8 18			<b>247767</b>	2003 <i>QN</i> <sub>52</sub>		11 3.5 60°72	2°5/ 2.1 18		
9 28	2 58.86	+12 13.1	1.367	2.223	17.2	20.7	9 28	3 5.02	+10 48.3	1.484	2.326	16.8	19.8
10 8	2 55.71	+11 28.1	1.283	2.204	13.3	20.4	10 8	2 59.51	+10 18.4	1.441	2.353	12.7	19.6
10 18	2 49.62	+10 32.1	1.220	2.186	8.6	20.1	10 18	2 51.46	+9 43.1	1.419	2.381	8.1	19.4
10 28	2 41.31	+9 30.0	1.180	2.168	3.9	19.8	10 28	2 41.83	+9 7.0	1.423	2.409	3.6	19.2
11 7	2 31.96	+8 29.4	1.166	2.150	4.1	19.8	11 7	2 31.86	+8 35.5	1.453	2.437	3.5	19.3
11 17	2 22.99	+7 38.4	1.177	2.134	9.0	20.0	11 17	2 22.79	+8 13.5	1.511	2.465	7.7	19.6
11 27	2 15.82	+7 4.5	1.212	2.117	14.0	20.2	11 27	2 15.67	+8 4.6	1.594	2.493	11.7	19.9
12 7	2 11.41	+6 51.7	1.267	2.102	18.4	20.5	12 7	2 11.10	+8 10.3	1.700	2.521	15.1	20.2
<b>170149</b>	2003 <i>BB</i> <sub>49</sub>		11 3.5 150°95	3°6/31.1 18			<b>333972</b>	2000 <i>HY</i> <sub>36</sub>		11 3.5 121°21	6°2/30.8 17		
9 28	2 59.62	+4 44.6	2.608	3.434	10.9	20.6	9 28	3 7.08	-1 13.1	1.873	2.700	14.4	20.8
10 8	2 54.57	+3 55.5	2.540	3.442	8.3	20.5	10 8	3 0.67	-1 52.7	1.820	2.717	11.4	20.7
10 18	2 47.99	+3 5.7	2.497	3.451	5.7	20.3	10 18	2 52.07	-2 27.0	1.789	2.733	8.3	20.5
10 28	2 40.41	+2 19.3	2.483	3.458	3.8	20.2	10 28	2 42.07	-2 50.6	1.785	2.748	6.4	20.4
11 7	2 32.51	+1 40.3	2.499	3.466	4.3	20.3	11 7	2 31.70	-2 58.6	1.810	2.763	6.9	20.5
11 17	2 24.97	+1 12.1	2.545	3.472	6.6	20.4	11 17	2 22.00	-2 48.7	1.862	2.777	9.4	20.7
11 27	2 18.47	+0 57.0	2.618	3.478	9.2	20.6	11 27	2 13.91	-2 20.2	1.940	2.791	12.3	20.9
12 7	2 13.48	+0 55.8	2.716	3.484	11.5	20.8	12 7	2 8.03	-1 34.9	2.041	2.803	15.0	21.1
<b>178137</b>	2006 <i>TV</i> <sub>55</sub>		11 3.5 50°68	7°2/31.8 17			<b>402369</b>	2005 <i>WY</i> <sub>154</sub>		11 3.5 343°43	1°0/ 2.8 17		
9 28	3 8.19	+1 2.0	1.110	1.969	20.1	18.9	9 28	2 59.22	+13 47.8	1.884	2.717	14.1	21.3
10 8	3 2.41	+0 26.2	1.079	1.996	15.5	18.7	10 8	2 55.07	+13 30.0	1.805	2.713	10.8	21.1
10 18	2 53.47	-0 3.2	1.067	2.024	10.9	18.6	10 18	2 48.73	+13 4.7	1.748	2.709	6.9	20.9
10 28	2 42.60	-0 18.5	1.077	2.051	7.5	18.5	10 28	2 40.83	+12 34.6	1.718	2.706	2.8	20.6
11 7	2 31.43	-0 14.1	1.112	2.080	8.0	18.6	11 7	2 32.32	+12 3.7	1.715	2.703	2.1	20.6
11 17	2 21.53	+0 12.1	1.171	2.108	11.5	18.9	11 17	2 24.20	+11 36.4	1.741	2.700	6.3	20.8
11 27	2 14.13	+0 59.5	1.253	2.137	15.4	19.2	11 27	2 17.47	+11 17.0	1.793	2.698	10.2	21.1
12 7	2 9.86	+2 4.3	1.355	2.166	18.8	19.5	12 7	2 12.82	+11 8.9	1.869	2.696	13.7	21.3
<b>237226</b>	2008 <i>VM</i> <sub>51</sub>		11 3.5 102°99	1°8/ 2.4 18			<b>252033</b>	2000 <i>QM</i> <sub>19</sub>		11 3.5 95°18	2°1/ 4.7 17		
9 28	3 5.55	+11 6.1	1.885	2.710	14.4	20.1	9 28	3 8.96	+21 31.4	1.435	2.251	18.6	20.9
10 8	2 59.59	+10 51.0	1.825	2.729	10.9	19.9	10 8	3 2.97	+21 32.9	1.378	2.272	14.5	20.7
10 18	2 51.42	+10 31.1	1.788	2.747	7.0	19.7	10 18	2 53.95	+21 18.3	1.341	2.292	9.8	20.5
10 28	2 41.81	+10 9.5	1.778	2.765	3.0	19.5	10 28	2 42.90	+20 48.0	1.329	2.312	4.7	20.2
11 7	2 31.78	+9 49.8	1.797	2.782	2.7	19.5	11 7	2 31.27	+20 5.9	1.343	2.332	2.4	20.1
11 17	2 22.38	+9 35.8	1.845	2.799	6.5	19.8	11 17	2 20.56	+19 18.3	1.385	2.351	6.8	20.5
11 27	2 14.56	+9 30.7	1.921	2.816	10.2	20.0	11 27	2 12.08	+18 33.1	1.453	2.369	11.4	20.8
12 7	2 8.95	+9 36.5	2.020	2.832	13.4	20.3	12 7	2 6.58	+17 57.0	1.544	2.387	15.3	21.1
<b>179648</b>	2002 <i>PE</i> <sub>156</sub>		11 3.5 85°26	2°9/ 5.3 18			<b>174693</b>	2003 <i>UW</i> <sub>27</sub>		11 3.5 21°31	6°2/31.7 18		
9 28	3 6.17	+23 20.3	1.459	2.274	18.4	20.9	9 28	3 1.59	+4 53.3	1.081	1.953	19.6	19.3
10 8	3 0.98	+23 28.2	1.396	2.287	14.5	20.6	10 8	2 57.94	+4 6.0	1.031	1.958	15.1	19.1
10 18	2 52.76	+23 18.8	1.352	2.300	10.0	20.4	10 18	2 51.00	+3 18.2	1.000	1.964	10.3	18.8
10 28	2 42.45	+22 51.7	1.332	2.313	5.3	20.2	10 28	2 41.79	+2 38.3	0.991	1.972	6.6	18.7
11 7	2 31.43	+22 10.1	1.339	2.325	3.1	20.1	11 7	2 31.85	+2 14.7	1.005	1.980	7.3	18.7
11 17	2 21.20	+21 20.0	1.372	2.338	6.8	20.3	11 17	2 22.80	+2 12.9	1.042	1.989	11.4	19.0
11 27	2 13.09	+20 29.6	1.432	2.350	11.3	20.6	11 27	2 16.05	+2 35.2	1.101	1.999	15.9	19.3
12 7	2 7.90	+19 46.5	1.514	2.363	15.2	20.9	12 7	2 12.43	+3 19.8	1.179	2.009	19.8	19.6
<b>224803</b>	2006 <i>UC</i> <sub>212</sub>		11 3.5 125°86	1°7/ 4.6 17			<b>250662</b>	2005 <i>NS</i> <sub>22</sub>		11 3.5 100°58	1°7/ 4.9 18		
9 28	3 7.48	+20 28.5	1.698	2.508	16.5	21.0	9 28	3 1.30	+22 12.4	2.057	2.861	14.2	21.0
10 8	3 1.56	+20 34.2	1.629	2.520	12.8	20.8	10 8	2 56.46	+21 59.0	1.984	2.871	11.1	20.8
10 18	2 52.95	+20 26.9	1.582	2.532	8.6	20.6	10 18	2 49.50	+21 32.5	1.933	2.880	7.5	20.6
10 28	2 42.50	+20 7.0	1.559	2.543	4.1	20.4	10 28	2 41.11	+20 54.0	1.908	2.890	3.7	20.4
11 7	2 31.40	+19 37.2	1.565	2.554	2.1	20.3	11 7	2 32.23	+20 6.7	1.911	2.899	1.9	20.2
11 17	2 20.96	+19 2.2	1.600	2.564	6.2	20.5	11 17	2 23.86	+19 15.3	1.944	2.908	5.2	20.5
11 27	2 12.36	+18 28.2	1.661	2.574	10.4	20.8	11 27	2 16.90	+18 25.5	2.004	2.917	8.9	20.7
12 7	2 6.36	+18 0.9	1.747	2.583	14.1	21.1	12 7	2 11.99	+17 42.5	2.090	2.926	12.1	21.0
<b>457947</b>	2009 <i>VK</i> <sub>32</sub>		11 3.5 328°04	2°4/ 2.4 16			<b>301639</b>	2010 <i>EE</i> <sub>69</sub>		11 3.5 105°56	0°1/ 3.4 18		
9 28	3 3.10	+7 48.4	1.790	2.627	14.6	21.0	9 28	3 4.62	+16 18.9	2.076	2.889	13.8	21.8
10 8	2 58.34	+8 5.2	1.697	2.606	11.3	20.7	10 8	2 58.74	+16 3.9	2.015	2.910	10.5	21.6
10 18	2 51.06	+8 22.2	1.625	2.586	7.4	20.5	10 18	2 50.82	+15 40.5	1.976	2.932	6.7	21.4
10 28	2 41.84	+8 41.7	1.580	2.566	3.5	20.2	10 28	2 41.60	+15 10.7	1.965	2.952	2.7	21.2
11 7	2 31.69	+9 5.9	1.562	2.547	3.2	20.1	11 7	2 31.99	+14 38.0	1.983	2.973	1.5	21.1
11 17	2 21.76	+9 36.8	1.573	2.529	7.3	20.3	11 17	2 22.98	+14 6.3	2.032	2.992	5.5	21.5
11 27	2 13.23	+10 16.2	1.611	2.511	11.5	20.5	11 27	2 15.43	+13 39.9	2.108	3.011	9.1	21.7
12 7	2 7.01	+11 4.9	1.671	2.495	15.2	20.7	12 7	2 9.93	+13 22.3	2.210	3.030	12.1	22.0
<b>475410</b>	2006 <i>JS</i> <sub>56</sub>		11 3.5 66°01	6°0/31.6 18			<b>469074</b>	2015 <i>BN</i> <sub>85</sub>		11 3.5 129°59	2°0/ 4.9 18		
9 28	3 6.65	-0 8.3											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>405413</b>	2004 RZ <sub>135</sub>	11	3.5 344°66	3°6/ 5.9 18			<b>468515</b>	2005 SC <sub>57</sub>	11	3.5 42°05	0°9/ 4.0 18		
9 28	3 1.90	+24 42.5	1.912	2.710	15.3	20.9	9 28	3 2.97	+19 13.5	1.168	2.015	20.1	20.7
10 8	2 57.37	+25 12.4	1.827	2.706	12.3	20.7	10 8	2 58.82	+18 58.6	1.122	2.035	15.5	20.4
10 18	2 50.37	+25 28.9	1.764	2.702	8.8	20.5	10 18	2 51.44	+18 27.2	1.095	2.055	10.1	20.2
10 28	2 41.56	+25 30.8	1.726	2.699	5.3	20.3	10 28	2 41.95	+17 42.1	1.090	2.077	4.3	20.0
11 7	2 31.96	+25 18.5	1.714	2.696	3.6	20.2	11 7	2 31.90	+16 49.5	1.109	2.099	2.0	19.9
11 17	2 22.72	+24 55.2	1.731	2.693	6.0	20.3	11 17	2 22.89	+15 57.5	1.154	2.121	7.5	20.3
11 27	2 14.98	+24 26.0	1.775	2.691	9.6	20.5	11 27	2 16.22	+15 14.1	1.223	2.145	12.5	20.6
12 7	2 9.56	+23 57.1	1.843	2.689	13.0	20.7	12 7	2 12.63	+14 45.1	1.313	2.168	16.7	21.0
<b>183737</b>	2003 YD <sub>113</sub>	11	3.5 263°95	1°6/ 4.4 18			<b>98368</b>	2000 TU <sub>17</sub>	11	3.5 289°12	1°7/ 4.4 18		
9 28	3 5.25	+19 37.4	1.554	2.376	17.2	20.6	9 28	3 5.04	+19 33.0	1.382	2.213	18.4	20.2
10 8	3 0.45	+19 47.6	1.468	2.366	13.5	20.4	10 8	3 0.53	+19 42.8	1.304	2.207	14.5	19.9
10 18	2 52.64	+19 45.1	1.402	2.355	9.1	20.1	10 18	2 52.80	+19 38.7	1.246	2.202	9.8	19.6
10 28	2 42.56	+19 29.8	1.360	2.344	4.3	19.8	10 28	2 42.65	+19 20.7	1.211	2.197	4.5	19.3
11 7	2 31.42	+19 4.0	1.344	2.333	2.2	19.6	11 7	2 31.44	+18 51.6	1.202	2.191	2.2	19.2
11 17	2 20.66	+18 32.2	1.357	2.322	6.9	19.9	11 17	2 20.76	+18 16.8	1.220	2.186	7.3	19.5
11 27	2 11.73	+18 1.2	1.395	2.311	11.7	20.2	11 27	2 12.13	+17 43.8	1.262	2.181	12.4	19.7
12 7	2 5.60	+17 37.3	1.456	2.299	16.0	20.4	12 7	2 6.55	+17 19.5	1.326	2.176	16.9	20.0
<b>298044</b>	2002 PS <sub>197</sub>	11	3.5 119°04	0°6/ 3.1 18			<b>385622</b>	2005 NR <sub>4</sub>	11	3.5 20°77	0°1/ 3.6 18		
9 28	3 2.16	+16 13.4	2.053	2.871	13.7	21.9	9 28	2 59.50	+17 25.6	1.070	1.932	20.5	20.2
10 8	2 56.96	+15 38.1	1.986	2.885	10.4	21.8	10 8	2 56.56	+17 12.1	1.018	1.940	15.8	19.9
10 18	2 49.74	+14 53.4	1.942	2.899	6.7	21.6	10 18	2 50.24	+16 42.9	0.984	1.949	10.2	19.7
10 28	2 41.19	+14 2.3	1.925	2.912	2.6	21.3	10 28	2 41.56	+16 1.5	0.971	1.959	4.1	19.4
11 7	2 32.23	+13 9.1	1.937	2.925	1.7	21.3	11 7	2 32.09	+15 14.3	0.982	1.971	2.1	19.3
11 17	2 23.81	+12 19.1	1.979	2.938	5.7	21.6	11 17	2 23.53	+14 29.3	1.016	1.984	8.1	19.7
11 27	2 16.79	+11 37.1	2.049	2.950	9.4	21.8	11 27	2 17.34	+13 54.9	1.074	1.998	13.5	20.0
12 7	2 11.77	+11 6.6	2.143	2.961	12.5	22.1	12 7	2 14.33	+13 36.4	1.151	2.013	18.0	20.4
<b>412803</b>	2014 PK <sub>28</sub>	11	3.5 93°69	1°1/ 2.6 18			<b>461270</b>	2015 XX <sub>60</sub>	11	3.5 37°64	6°7/ 29.8 18		
9 28	2 59.51	+13 46.1	2.221	3.045	12.6	21.7	9 28	2 59.50	- 1 56.4	1.885	2.726	13.8	20.5
10 8	2 54.84	+13 17.2	2.151	3.055	9.5	21.5	10 8	2 55.03	- 2 49.8	1.831	2.735	10.9	20.4
10 18	2 48.34	+12 41.6	2.105	3.064	6.1	21.3	10 18	2 48.54	- 3 37.9	1.800	2.744	8.2	20.2
10 28	2 40.63	+12 2.1	2.086	3.074	2.4	21.1	10 28	2 40.73	- 4 14.4	1.795	2.753	6.7	20.2
11 7	2 32.52	+11 22.7	2.096	3.083	2.0	21.1	11 7	2 32.53	- 4 34.3	1.816	2.763	7.5	20.2
11 17	2 24.83	+10 47.3	2.136	3.092	5.6	21.3	11 17	2 24.86	- 4 34.4	1.864	2.773	9.8	20.4
11 27	2 18.37	+10 19.9	2.203	3.102	9.0	21.6	11 27	2 18.58	- 4 13.9	1.936	2.784	12.5	20.6
12 7	2 13.70	+10 3.2	2.295	3.111	11.9	21.8	12 7	2 14.28	- 3 34.3	2.030	2.795	15.0	20.8
<b>477370</b>	2009 UM <sub>115</sub>	11	3.5 305°19	1°3/ 4.2 18			<b>257049</b>	2008 FL <sub>78</sub>	11	3.5 357°01	0°3/ 3.7 18		
9 28	3 5.01	+17 54.7	1.450	2.281	17.7	21.2	9 28	2 59.47	+17 54.8	1.851	2.676	14.7	20.9
10 8	3 0.41	+18 15.2	1.369	2.273	13.9	21.0	10 8	2 55.35	+17 36.5	1.773	2.675	11.3	20.7
10 18	2 52.69	+18 25.0	1.307	2.264	9.3	20.7	10 18	2 48.95	+17 7.0	1.717	2.674	7.4	20.4
10 28	2 42.60	+18 24.0	1.270	2.256	4.2	20.4	10 28	2 40.97	+16 28.5	1.686	2.673	3.1	20.2
11 7	2 31.41	+18 14.2	1.258	2.248	2.1	20.2	11 7	2 32.37	+15 44.8	1.684	2.673	1.5	20.1
11 17	2 20.66	+17 59.5	1.274	2.240	7.2	20.5	11 17	2 24.22	+15 1.0	1.709	2.673	5.9	20.4
11 27	2 11.82	+17 45.8	1.314	2.232	12.2	20.8	11 27	2 17.51	+14 22.6	1.762	2.673	10.0	20.6
12 7	2 5.92	+17 38.9	1.377	2.225	16.5	21.0	12 7	2 12.96	+13 54.4	1.838	2.674	13.5	20.8
<b>382679</b>	2002 TP <sub>370</sub>	11	3.5 346°60	7°7/ 30.8 18			<b>207456</b>	2006 GZ <sub>6</sub>	11	3.5 139°08	0°7/ 3.0 18		
9 28	3 1.70	+ 0 41.8	1.235	2.099	18.2	20.5	9 28	3 4.63	+14 5.4	2.089	2.905	13.5	21.5
10 8	2 57.87	- 0 8.1	1.174	2.093	14.4	20.3	10 8	2 58.86	+13 54.4	2.017	2.915	10.3	21.3
10 18	2 50.96	- 0 54.3	1.132	2.088	10.4	20.0	10 18	2 51.01	+13 36.7	1.968	2.925	6.6	21.1
10 28	2 41.84	- 1 28.1	1.112	2.084	7.8	19.9	10 28	2 41.74	+13 14.5	1.947	2.934	2.6	20.9
11 7	2 31.87	- 1 41.5	1.116	2.080	8.7	19.9	11 7	2 31.99	+12 50.8	1.955	2.943	1.8	20.8
11 17	2 22.55	- 1 29.7	1.144	2.077	12.2	20.1	11 17	2 22.72	+12 29.3	1.993	2.952	5.7	21.1
11 27	2 15.27	- 0 51.4	1.194	2.075	16.2	20.3	11 27	2 14.86	+12 13.8	2.059	2.959	9.4	21.3
12 7	2 10.91	+ 0 10.7	1.263	2.074	19.9	20.6	12 7	2 9.03	+12 7.3	2.150	2.967	12.5	21.6
<b>142433</b>	2002 SY <sub>45</sub>	11	3.5 67°55	0°6/ 3.2 18			<b>177399</b>	2004 BR <sub>104</sub>	11	3.5 341°40	9°5/ 28.3 18		
9 28	3 5.66	+13 42.2	1.715	2.542	15.6	19.9	9 28	2 59.77	- 6 13.6	1.576	2.423	15.8	19.3
10 8	2 59.93	+13 45.8	1.658	2.562	11.9	19.7	10 8	2 55.76	- 7 25.8	1.516	2.416	13.0	19.1
10 18	2 51.77	+13 42.8	1.624	2.583	7.6	19.5	10 18	2 49.29	- 8 29.1	1.477	2.411	10.6	18.9
10 28	2 42.03	+13 35.0	1.615	2.603	3.0	19.2	10 28	2 41.12	- 9 14.5	1.462	2.405	9.5	18.9
11 7	2 31.82	+13 25.5	1.635	2.623	1.9	19.2	11 7	2 32.32	- 9 34.8	1.471	2.401	10.5	18.9
11 17	2 22.31	+13 17.8	1.683	2.644	6.3	19.5	11 17	2 24.05	- 9 26.0	1.504	2.396	12.9	19.0
11 27	2 14.53	+13 15.7	1.758	2.664	10.4	19.8	11 27	2 17.39	- 8 47.9	1.559	2.393	15.7	19.2
12 7	2 9.15	+13 21.9	1.857	2.684	13.8	20.1	12 7	2 13.07	- 7 44.1	1.633	2.390	18.4	19.4
<b>308707</b>	2006 FC <sub>51</sub>	11	3.5 220°50	4°0/ 2.0 18			<b>78396</b>	2002 QW <sub>1</sub>	11	3.5 32°41	1°1/ 2.6 18		
9 28	3 14.60	+ 2 3.0	1.894	2.706	14.9	20.7	9 28	2 57.14	+14 58.7	2.049	2.880	13.3	19.7
10 8	3 6.81	+ 2 28.2	1.809	2.702	11.6	20.5	10 8	2 53.22	+14 16.8	1.980	2.887	10.1	19.5
10 18	2 56.35	+ 2 58.9	1.748	2.698	8.0	20.2	10 18	2 47.40	+13 26.1	1.933	2.894	6.4	19.3
10 28	2 43.96	+ 3 37.6	1.715	2.693	4.6	20.0	10 28	2 40.29	+12 30.2	1.913	2.901	2.5	19.1
11 7	2 30.75	+ 4 25.8	1.713	2.689	4.6	20.0	11 7	2 32.76	+11 34.0	1.922	2.909	2.1	19.1
11 17	2 18.00	+ 5 23.9	1.742	2.684	8.0	20.2	11 17	2 25.68	+10 42.5	1.959	2.917	5.9	19.3
11 27	2 6.91	+ 6 31.5	1.800	2.679	11.7	20.4	11 27	2 19.87	+10 0.5	2.024	2.926	9.4	19.6
12 7	1 58.31	+ 7 47.4	1.884	2.674	15.1	20.6	12 7	2 15.90	+ 9 31.4	2.113	2.935	12.5	19.8
<b>85052</b>	6778 P-L	11	3.5 25°72	6°5/ 30.1 18			<b>515185</b>	2011 UZ <sub>78</sub>	11	3.5 31°12	1°4/ 4.4 18		
9 28	2 56.84	+ 4 19.7	1.344	2									

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>476941</b>	2008 <i>WR</i> <sub>140</sub>	11	3.5 315°77	6°3/31.6	18		<b>256305</b>	2006 <i>WM</i> <sub>178</sub>	11	3.5 150°77	2°6/ 6.1	18	
9 28	3 5.64	- 0 13.0	1.577	2.418	16.0	20.7	9 28	3 0.86	+26 8.7	2.632	3.407	12.2	20.8
10 8	3 0.38	- 0 29.7	1.502	2.408	12.7	20.4	10 8	2 55.79	+26 3.5	2.548	3.414	9.7	20.6
10 18	2 52.39	- 0 40.9	1.448	2.399	9.2	20.2	10 18	2 48.96	+25 45.7	2.488	3.420	6.9	20.5
10 28	2 42.43	- 0 40.7	1.420	2.391	6.6	20.1	10 28	2 40.94	+25 15.4	2.454	3.426	4.1	20.3
11 7	2 31.64	- 0 24.3	1.417	2.382	7.1	20.1	11 7	2 32.49	+24 34.6	2.450	3.432	2.6	20.2
11 17	2 21.33	+ 0 10.8	1.442	2.374	10.2	20.2	11 17	2 24.41	+23 46.4	2.475	3.437	4.5	20.3
11 27	2 12.73	+ 1 5.0	1.491	2.366	13.9	20.4	11 27	2 17.46	+22 55.8	2.531	3.442	7.4	20.5
12 7	2 6.71	+ 2 16.4	1.562	2.359	17.4	20.6	12 7	2 12.21	+22 7.5	2.612	3.446	10.0	20.7
<b>206366</b>	2003 <i>QS</i> <sub>65</sub>	11	3.5 337°81	11°2/26.5	18		<b>403688</b>	2010 <i>VB</i> <sub>65</sub>	11	3.5 47°12	0°4/ 3.8	18	
9 28	2 54.20	- 3 59.3	1.232	2.105	17.6	19.1	9 28	3 3.41	+16 6.3	1.924	2.744	14.4	20.5
10 8	2 52.22	- 5 54.1	1.169	2.087	14.5	18.9	10 8	2 58.20	+16 21.2	1.854	2.753	11.1	20.3
10 18	2 47.40	- 7 44.5	1.126	2.070	12.0	18.7	10 18	2 50.73	+16 28.7	1.806	2.762	7.2	20.1
10 28	2 40.48	- 9 17.0	1.105	2.054	11.2	18.6	10 28	2 41.70	+16 29.6	1.784	2.771	3.0	19.9
11 7	2 32.67	-10 19.3	1.105	2.039	12.7	18.6	11 7	2 32.10	+16 25.9	1.791	2.780	1.5	19.8
11 17	2 25.35	-10 43.6	1.127	2.026	15.7	18.8	11 17	2 22.98	+16 20.6	1.827	2.790	5.7	20.1
11 27	2 19.83	-10 27.6	1.169	2.014	19.1	18.9	11 27	2 15.35	+16 17.4	1.890	2.800	9.5	20.3
12 7	2 17.00	- 9 35.0	1.226	2.004	22.2	19.1	12 7	2 9.89	+16 19.6	1.977	2.810	12.8	20.6
<b>326653</b>	2002 <i>TR</i> <sub>103</sub>	11	3.5 51°39	1°6/ 4.5	18		<b>189594</b>	2000 <i>WG</i> <sub>79</sub>	11	3.5 357°56	0°9/ 4.0	18	
9 28	3 4.89	+21 25.1	1.178	2.016	20.5	20.3	9 28	3 0.37	+17 44.8	1.290	2.137	18.5	19.4
10 8	3 0.21	+21 7.0	1.135	2.041	15.9	20.1	10 8	2 57.02	+17 53.4	1.220	2.134	14.4	19.1
10 18	2 52.30	+20 29.9	1.110	2.067	10.5	19.9	10 18	2 50.54	+17 49.3	1.170	2.131	9.6	18.8
10 28	2 42.29	+19 36.3	1.107	2.093	4.8	19.6	10 28	2 41.77	+17 33.7	1.142	2.130	4.1	18.5
11 7	2 31.82	+18 32.7	1.130	2.119	2.2	19.5	11 7	2 32.05	+17 10.1	1.139	2.129	1.9	18.4
11 17	2 22.48	+17 27.8	1.178	2.146	7.3	19.9	11 17	2 22.91	+16 43.9	1.162	2.130	7.4	18.7
11 27	2 15.58	+16 31.0	1.251	2.173	12.2	20.3	11 27	2 15.81	+16 22.0	1.208	2.131	12.5	19.0
12 7	2 11.80	+15 48.7	1.345	2.200	16.4	20.6	12 7	2 11.67	+16 10.1	1.276	2.134	16.9	19.3
<b>410616</b>	2008 <i>OG</i> <sub>23</sub>	11	3.5 29°39	2°8/ 5.6	16		<b>16475</b>	1990 <i>QS</i> <sub>4</sub>	11	3.5 65°20	4°4/ 1.3	18	
9 28	2 59.46	+24 9.9	1.834	2.641	15.5	21.0	9 28	3 5.17	+ 7 48.8	1.240	2.096	18.6	17.3
10 8	2 55.36	+24 13.7	1.767	2.653	12.2	20.8	10 8	3 0.30	+ 7 6.2	1.189	2.109	14.2	17.1
10 18	2 48.95	+24 2.5	1.721	2.665	8.5	20.6	10 18	2 52.37	+ 6 19.9	1.158	2.122	9.3	16.9
10 28	2 40.97	+23 36.6	1.700	2.678	4.7	20.4	10 28	2 42.38	+ 5 36.6	1.151	2.135	5.1	16.7
11 7	2 32.45	+22 58.6	1.706	2.692	2.9	20.3	11 7	2 31.80	+ 5 3.4	1.169	2.148	5.5	16.7
11 17	2 24.49	+22 13.4	1.740	2.706	5.6	20.5	11 17	2 22.12	+ 4 46.1	1.212	2.162	9.8	17.0
11 27	2 18.08	+21 27.0	1.801	2.720	9.3	20.8	11 27	2 14.64	+ 4 48.3	1.279	2.175	14.2	17.3
12 7	2 13.89	+20 45.6	1.886	2.735	12.6	21.0	12 7	2 10.11	+ 5 10.2	1.366	2.189	18.0	17.6
<b>222178</b>	2000 <i>BA</i> <sub>33</sub>	11	3.5 190°85	0°9/ 2.9	18		<b>190120</b>	2004 <i>VS</i> <sub>72</sub>	11	3.5 230°78	1°9/ 5.5	18	
9 28	3 3.99	+15 10.4	1.849	2.672	14.8	21.1	9 28	2 58.69	+24 33.1	2.504	3.293	12.4	20.4
10 8	2 58.76	+14 40.7	1.769	2.671	11.3	20.9	10 8	2 54.28	+24 7.9	2.411	3.287	9.8	20.2
10 18	2 51.16	+14 1.2	1.711	2.669	7.3	20.6	10 18	2 48.07	+23 29.3	2.340	3.281	6.8	20.0
10 28	2 41.89	+13 14.9	1.680	2.668	2.9	20.4	10 28	2 40.62	+22 38.1	2.297	3.275	3.6	19.8
11 7	2 31.96	+12 26.4	1.677	2.665	2.1	20.3	11 7	2 32.68	+21 37.2	2.282	3.269	2.0	19.7
11 17	2 22.49	+11 41.0	1.703	2.662	6.5	20.6	11 17	2 25.07	+20 30.8	2.298	3.262	4.6	19.9
11 27	2 14.56	+11 4.4	1.757	2.659	10.6	20.8	11 27	2 18.57	+19 24.5	2.343	3.255	7.8	20.1
12 7	2 8.89	+10 40.4	1.834	2.655	14.2	21.0	12 7	2 13.77	+18 23.7	2.414	3.249	10.7	20.2
<b>475243</b>	2005 <i>WP</i> <sub>24</sub>	11	3.5 263°54	2°5/ 5.2	18		<b>331329</b>	2012 <i>BU</i> <sub>10</sub>	11	3.5 178°95	6°3/28.2	18	
9 28	3 2.31	+23 42.6	1.693	2.503	16.5	21.4	9 28	2 57.80	- 3 20.6	2.475	3.304	11.3	20.9
10 8	2 57.96	+23 31.8	1.605	2.494	13.1	21.2	10 8	2 53.38	- 4 35.8	2.411	3.305	9.1	20.7
10 18	2 50.90	+23 3.8	1.538	2.485	9.1	20.9	10 18	2 47.37	- 5 47.0	2.372	3.306	7.1	20.6
10 28	2 41.86	+22 18.7	1.495	2.475	4.8	20.6	10 28	2 40.30	- 6 48.4	2.360	3.306	6.3	20.5
11 7	2 31.95	+21 19.5	1.479	2.466	2.6	20.5	11 7	2 32.87	- 7 35.0	2.377	3.306	7.1	20.6
11 17	2 22.47	+20 12.4	1.491	2.457	6.3	20.7	11 17	2 25.78	- 8 3.3	2.421	3.306	8.9	20.7
11 27	2 14.68	+19 5.5	1.530	2.447	10.7	20.9	11 27	2 19.72	- 8 11.6	2.490	3.305	11.1	20.9
12 7	2 9.43	+18 6.6	1.592	2.438	14.7	21.2	12 7	2 15.20	- 8 0.5	2.580	3.304	13.1	21.0
<b>347947</b>	2003 <i>LA</i>	11	3.5 167°30	17°8/28.9	16		<b>383091</b>	2005 <i>SW</i> <sub>92</sub>	11	3.5 330°85	1°4/ 2.7	18	
9 28	3 18.50	-23 29.4	1.252	2.041	22.3	20.2	9 28	2 58.56	+15 59.9	1.344	2.195	17.7	20.6
10 8	3 10.62	-24 35.6	1.210	2.043	20.2	20.1	10 8	2 55.47	+15 11.3	1.269	2.186	13.6	20.3
10 18	2 59.04	-25 10.3	1.183	2.045	18.5	20.0	10 18	2 49.47	+14 7.5	1.213	2.178	8.8	20.0
10 28	2 45.03	-25 0.0	1.176	2.046	17.8	19.9	10 28	2 41.33	+12 52.9	1.181	2.170	3.5	19.7
11 7	2 30.40	-23 57.9	1.190	2.047	18.3	20.0	11 7	2 32.31	+11 35.5	1.175	2.163	2.8	19.6
11 17	2 17.06	-22 5.4	1.224	2.048	19.9	20.1	11 17	2 23.82	+10 24.2	1.194	2.156	8.2	19.9
11 27	2 6.53	-19 31.1	1.277	2.048	22.0	20.2	11 27	2 17.20	+ 9 27.7	1.238	2.150	13.2	20.2
12 7	1 59.62	-16 28.2	1.348	2.048	24.1	20.4	12 7	2 13.35	+ 8 51.6	1.302	2.145	17.6	20.5
<b>271193</b>	2003 <i>SH</i> <sub>320</sub>	11	3.5 178°64	3°7/ 7.0	18		<b>276638</b>	2003 <i>UU</i> <sub>208</sub>	11	3.5 11°31	1°2/ 2.7	17	
9 28	3 0.80	+29 4.0	2.509	3.274	13.0	20.8	9 28	2 57.40	+14 1.9	1.754	2.595	14.7	20.8
10 8	2 55.96	+29 11.6	2.420	3.275	10.6	20.7	10 8	2 53.79	+13 36.5	1.686	2.598	11.2	20.6
10 18	2 49.19	+29 4.8	2.354	3.275	7.8	20.5	10 18	2 47.96	+13 2.8	1.639	2.602	7.2	20.4
10 28	2 41.06	+28 43.0	2.313	3.275	5.2	20.3	10 28	2 40.61	+12 24.3	1.619	2.607	2.9	20.1
11 7	2 32.40	+28 7.2	2.301	3.275	3.7	20.2	11 7	2 32.71	+11 45.5	1.625	2.612	2.3	20.1
11 17	2 24.09	+27 20.7	2.318	3.275	5.1	20.3	11 17	2 25.30	+11 11.4	1.659	2.619	6.5	20.4
11 27	2 16.98	+26 28.3	2.364	3.275	7.8	20.5	11 27	2 19.34	+10 46.9	1.718	2.626	10.5	20.6
12 7	2 11.69	+25 35.8	2.436	3.275	10.5	20.7	12 7	2 15.51	+10 35.0	1.801	2.634	13.9	20.9
<b>297042</b>	2010 <i>GX</i> <sub>159</sub>	11	3.5 151°49	3°7/ 6.3	18		<b>227741</b>	2006 <i>GV</i> <sub>17</sub>	11	3.5 311°06			



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>444553</b>	2006 <i>SR</i> <sub>317</sub>	11 3.6 58°48'	1.0°/ 2.9 15				<b>153353</b>	2001 <i>PW</i> <sub>22</sub>	11 3.6 15°85'	2°5'/ 2.5 18			
9 28	3 2.70	+14 11.8	1.676	2.510	15.6	21.4	9 28	2 59.84	+10 52.4	0.991	1.867	20.6	18.6
10 8	2 57.71	+13 50.5	1.623	2.531	11.8	21.2	10 8	2 56.96	+10 47.3	0.944	1.874	15.7	18.3
10 18	2 50.38	+13 21.0	1.591	2.552	7.5	21.0	10 18	2 50.59	+10 35.8	0.914	1.883	10.1	18.0
10 28	2 41.54	+12 46.7	1.585	2.573	3.0	20.8	10 28	2 41.78	+10 22.4	0.904	1.893	4.3	17.8
11 7	2 32.28	+12 12.1	1.607	2.595	2.2	20.8	11 7	2 32.18	+10 12.9	0.918	1.905	3.8	17.8
11 17	2 23.73	+11 42.0	1.657	2.617	6.5	21.1	11 17	2 23.51	+10 12.7	0.955	1.919	9.3	18.1
11 27	2 16.86	+11 21.1	1.733	2.638	10.5	21.4	11 27	2 17.28	+10 26.0	1.013	1.934	14.5	18.5
12 7	2 12.32	+11 12.1	1.832	2.660	13.9	21.6	12 7	2 14.34	+10 54.6	1.091	1.951	19.0	18.8
<b>227730</b>	2006 <i>EG</i> <sub>60</sub>	11 3.6 314°69'	2°4'/ 1.4 18				<b>340090</b>	2005 <i>WW</i> <sub>47</sub>	11 3.6 222°00'	0°0'/ 3.4 18			
9 28	2 56.67	+11 26.4	2.079	2.916	12.8	20.0	9 28	3 3.75	+17 2.4	1.887	2.705	14.7	22.0
10 8	2 52.97	+10 30.6	1.995	2.906	9.8	19.8	10 8	2 58.68	+16 46.5	1.800	2.698	11.4	21.7
10 18	2 47.34	+9 27.5	1.936	2.897	6.3	19.5	10 18	2 51.20	+16 20.1	1.735	2.691	7.4	21.5
10 28	2 40.37	+8 21.4	1.903	2.888	3.0	19.3	10 28	2 41.99	+15 45.1	1.697	2.684	3.0	21.2
11 7	2 32.86	+7 18.0	1.898	2.880	3.4	19.3	11 7	2 32.03	+15 5.0	1.687	2.676	1.6	21.1
11 17	2 25.68	+6 22.7	1.922	2.871	6.8	19.5	11 17	2 22.47	+14 24.7	1.706	2.668	6.1	21.4
11 27	2 19.69	+5 40.5	1.973	2.863	10.3	19.7	11 27	2 14.38	+13 49.8	1.752	2.659	10.3	21.6
12 7	2 15.51	+5 14.2	2.048	2.855	13.4	19.9	12 7	2 8.54	+13 24.8	1.823	2.650	14.0	21.8
<b>496013</b>	2008 <i>EL</i> <sub>6</sub>	11 3.6 185°12'	5°4'/30.8 17				<b>439624</b>	2014 <i>FV</i> <sub>18</sub>	11 3.6 153°66'	1°6'/ 4.8 18			
9 28	3 13.32	+6 24.9	1.736	2.555	15.7	24.9	9 28	3 2.91	+22 26.3	1.986	2.788	14.7	21.5
10 8	3 5.90	+4 48.6	1.659	2.558	12.2	24.7	10 8	2 57.84	+22 4.1	1.907	2.793	11.5	21.3
10 18	2 55.79	+3 5.8	1.607	2.559	8.3	24.4	10 18	2 50.52	+21 27.4	1.851	2.799	7.8	21.1
10 28	2 43.78	+1 24.8	1.583	2.557	5.5	24.3	10 28	2 41.65	+20 37.6	1.821	2.803	3.8	20.9
11 7	2 31.09	-0 5.1	1.589	2.553	6.5	24.3	11 7	2 32.24	+19 38.4	1.819	2.808	1.9	20.8
11 17	2 19.02	-1 16.0	1.625	2.548	10.0	24.5	11 17	2 23.33	+18 35.0	1.847	2.812	5.5	21.0
11 27	2 8.77	-2 2.4	1.688	2.540	13.8	24.8	11 27	2 15.91	+17 34.2	1.903	2.815	9.3	21.3
12 7	2 1.14	-2 23.3	1.773	2.529	17.2	25.0	12 7	2 10.66	+16 41.7	1.984	2.818	12.7	21.5
<b>520220</b>	2014 <i>DH</i> <sub>152</sub>	11 3.6 162°59'	2°5'/ 1.6 18				<b>100482</b>	1996 <i>UT</i> <sub>2</sub>	11 3.6 158°49'	2°0'/ 5.5 18			
9 28	3 1.89	+10 3.6	2.144	2.971	12.9	22.8	9 28	3 2.02	+24 7.7	2.579	3.360	12.2	20.9
10 8	2 56.75	+9 23.2	2.071	2.976	9.8	22.6	10 8	2 56.68	+23 55.8	2.495	3.368	9.6	20.8
10 18	2 49.67	+8 38.0	2.021	2.980	6.3	22.4	10 18	2 49.56	+23 31.8	2.435	3.374	6.7	20.6
10 28	2 41.27	+7 51.8	1.999	2.984	3.1	22.2	10 28	2 41.23	+22 56.3	2.403	3.380	3.6	20.4
11 7	2 32.41	+7 9.2	2.006	2.987	3.3	22.2	11 7	2 32.47	+22 11.7	2.400	3.386	2.1	20.3
11 17	2 23.98	+6 34.6	2.042	2.990	6.6	22.4	11 17	2 24.09	+21 21.5	2.428	3.390	4.5	20.5
11 27	2 16.83	+6 11.7	2.107	2.992	9.9	22.6	11 27	2 16.88	+20 30.7	2.485	3.395	7.5	20.7
12 7	2 11.56	+6 2.4	2.195	2.994	12.9	22.8	12 7	2 11.39	+19 43.8	2.569	3.399	10.3	20.9
<b>152201</b>	2005 <i>QA</i> <sub>142</sub>	11 3.6 44°66'	2°1'/ 4.8 18				<b>515723</b>	2014 <i>WR</i> <sub>246</sub>	11 3.6 103°38'	0°9'/ 2.9 18			
9 28	3 2.77	+21 54.1	1.360	2.190	18.7	19.6	9 28	3 2.05	+12 45.2	2.488	3.303	11.7	21.1
10 8	2 58.59	+21 46.9	1.298	2.199	14.7	19.4	10 8	2 56.58	+12 40.2	2.420	3.318	8.9	20.9
10 18	2 51.38	+21 21.9	1.255	2.209	9.9	19.2	10 18	2 49.43	+12 30.6	2.376	3.333	5.7	20.7
10 28	2 42.05	+20 40.3	1.235	2.219	4.8	18.9	10 28	2 41.15	+12 18.2	2.360	3.347	2.3	20.5
11 7	2 32.01	+19 46.7	1.240	2.229	2.4	18.8	11 7	2 32.52	+12 5.7	2.374	3.362	1.7	20.5
11 17	2 22.73	+18 48.1	1.272	2.240	6.9	19.1	11 17	2 24.29	+11 55.4	2.419	3.376	5.0	20.8
11 27	2 15.55	+17 53.3	1.329	2.251	11.7	19.4	11 27	2 17.21	+11 50.3	2.493	3.390	8.1	21.0
12 7	2 11.26	+17 9.5	1.408	2.262	15.8	19.7	12 7	2 11.79	+11 52.2	2.592	3.404	10.8	21.2
<b>390660</b>	2002 <i>QY</i> <sub>137</sub>	11 3.6 83°54'	2°8'/ 1.6 18				<b>279510</b>	2011 <i>AZ</i> <sub>70</sub>	11 3.6 245°32'	4°5'/ 7.7 17			
9 28	3 1.09	+10 9.4	1.794	2.632	14.5	21.3	9 28	3 0.96	+31 8.5	2.430	3.187	13.5	20.7
10 8	2 56.49	+9 28.4	1.726	2.637	11.0	21.1	10 8	2 56.27	+31 21.5	2.336	3.182	11.2	20.6
10 18	2 49.65	+8 42.0	1.681	2.642	7.1	20.9	10 18	2 49.51	+31 18.8	2.264	3.177	8.5	20.4
10 28	2 41.29	+7 54.6	1.662	2.648	3.5	20.7	10 28	2 41.27	+30 59.0	2.218	3.172	5.9	20.2
11 7	2 32.40	+7 11.7	1.671	2.653	3.7	20.7	11 7	2 32.42	+30 22.8	2.198	3.167	4.5	20.1
11 17	2 24.03	+6 38.3	1.708	2.658	7.4	20.9	11 17	2 23.89	+29 33.2	2.208	3.162	5.6	20.2
11 27	2 17.16	+6 18.5	1.771	2.663	11.1	21.2	11 27	2 16.60	+28 35.6	2.246	3.157	8.2	20.3
12 7	2 12.44	+6 14.4	1.857	2.668	14.4	21.4	12 7	2 11.25	+27 36.2	2.310	3.151	10.9	20.5
<b>196066</b>	2002 <i>TH</i> <sub>45</sub>	11 3.6 119°02'	4°5'/ 7.5 18				<b>400411</b>	2008 <i>CQ</i> <sub>22</sub>	11 3.6 41°37'	20°7'/17.7 17			
9 28	3 4.63	+30 52.9	2.725	3.469	12.5	20.4	9 28	3 0.47	-19 33.3	0.980	1.830	22.9	19.6
10 8	2 58.76	+31 30.2	2.644	3.481	10.3	20.3	10 8	2 57.39	-23 16.9	0.965	1.836	21.3	19.5
10 18	2 50.96	+31 54.3	2.586	3.492	7.9	20.1	10 18	2 50.78	-26 24.8	0.968	1.841	20.7	19.5
10 28	2 41.81	+32 3.4	2.554	3.503	5.7	20.0	10 28	2 41.81	-28 37.6	0.989	1.848	21.3	19.5
11 7	2 32.11	+31 57.5	2.551	3.514	4.5	20.0	11 7	2 32.22	-29 44.7	1.025	1.854	22.7	19.7
11 17	2 22.76	+31 38.4	2.577	3.524	5.4	20.0	11 17	2 23.72	-29 45.9	1.076	1.862	24.5	19.8
11 27	2 14.60	+31 10.0	2.633	3.534	7.5	20.2	11 27	2 17.75	-28 48.6	1.138	1.869	26.3	20.0
12 7	2 8.26	+30 37.4	2.715	3.544	9.8	20.4	12 7	2 15.02	-27 5.2	1.211	1.877	27.9	20.2
<b>194790</b>	2001 <i>YV</i> <sub>89</sub>	11 3.6 57°12'	6°2'/10.4 17				<b>323661</b>	2005 <i>EA</i> <sub>20</sub>	11 3.6 127°33'	4°0'/ 5.9 17			
9 28	3 0.33	+38 45.8	2.721	3.429	13.3	19.8	9 28	3 8.28	+25 34.1	1.586	2.384	17.9	21.4
10 8	2 55.66	+39 5.7	2.635	3.434	11.4	19.7	10 8	3 2.63	+25 56.9	1.515	2.393	14.4	21.2
10 18	2 49.02	+39 7.9	2.569	3.439	9.4	19.6	10 18	2 53.96	+26 2.3	1.463	2.401	10.3	21.0
10 28	2 41.03	+38 50.2	2.528	3.445	7.4	19.4	10 28	2 43.13	+25 48.6	1.436	2.410	6.1	20.8
11 7	2 32.52	+38 12.9	2.512	3.450	6.2	19.4	11 7	2 31.48	+25 17.1	1.435	2.418	4.0	20.7
11 17	2 24.40	+37 18.5	2.525	3.455	6.5	19.4	11 17	2 20.50	+24 32.6	1.462	2.425	6.9	20.9
11 27	2 17.54	+36 11.8	2.565	3.461	8.0	19.5	11 27	2 11.56	+23 43.0	1.516	2.432	10.9	21.1
12 7	2 12.55	+34 59.4	2.632	3.467	9.9	19.6	12 7	2 5.52	+22 56.6	1.593	2.439	14.7	21.4
<b>445240</b>	2009 <i>KW</i> <sub>18</sub>	11 3.6 151°73'	3°4'/31.5 18				<b>83029</b>	2001 <i>QB</i> <sub>181</sub>	11 3.6 15°66'	2°2'/ 2.2 18			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>375194</b>	2008 <i>EM</i> <sub>29</sub>	11	3.6 325°52	0°3/ 3.4 18			<b>516730</b>	2009 <i>DS</i> <sub>138</sub>	11	3.6 229°37	0°9/ 2.9 18		
9 28	3 0.75	+15 1.4	1.153	2.012	19.5	20.5	9 28	3 2.30	+13 56.9	2.199	3.017	12.9	22.2
10 8	2 57.89	+15 7.2	1.073	1.994	15.2	20.2	10 8	2 57.24	+13 37.8	2.108	3.008	9.9	22.0
10 18	2 51.53	+15 2.3	1.010	1.976	10.0	19.8	10 18	2 50.13	+13 11.8	2.041	2.998	6.4	21.7
10 28	2 42.37	+14 48.5	0.970	1.959	4.1	19.5	10 28	2 41.56	+12 41.0	2.001	2.988	2.6	21.5
11 7	2 31.82	+14 29.8	0.953	1.943	2.3	19.3	11 7	2 32.35	+12 8.8	1.990	2.978	1.9	21.4
11 17	2 21.63	+14 12.1	0.960	1.928	8.6	19.6	11 17	2 23.45	+11 39.1	2.009	2.967	5.8	21.6
11 27	2 13.59	+14 2.2	0.990	1.914	14.5	19.9	11 27	2 15.76	+11 16.2	2.056	2.955	9.5	21.8
12 7	2 8.90	+14 5.7	1.039	1.901	19.5	20.2	12 7	2 9.97	+11 3.1	2.128	2.944	12.7	22.0
<b>27031</b>	1998 <i>RO</i> <sub>4</sub>	11	3.6 46°11	2°9/ 2.1 17			<b>177674</b>	2005 <i>EF</i> <sub>88</sub>	11	3.6 209°94	0°6/ 3.1 18		
9 28	3 15.42	+15 27.2	0.781	1.646	25.8	19.4	9 28	3 4.48	+16 43.6	1.876	2.694	14.8	20.7
10 8	3 7.88	+13 53.4	0.776	1.700	19.0	19.3	10 8	2 59.23	+16 2.1	1.788	2.688	11.4	20.5
10 18	2 56.68	+12 8.9	0.789	1.756	11.7	19.1	10 18	2 51.56	+15 8.4	1.723	2.680	7.4	20.3
10 28	2 43.80	+10 25.2	0.823	1.811	4.8	19.0	10 28	2 42.16	+14 5.6	1.685	2.673	2.9	20.0
11 7	2 31.45	+8 55.3	0.880	1.866	4.5	19.2	11 7	2 32.05	+12 58.7	1.675	2.664	2.0	19.9
11 17	2 21.39	+7 48.9	0.961	1.920	10.1	19.7	11 17	2 22.37	+11 54.0	1.695	2.654	6.5	20.2
11 27	2 14.71	+7 10.3	1.064	1.974	15.2	20.2	11 27	2 14.19	+10 58.3	1.743	2.644	10.7	20.4
12 7	2 11.66	+6 58.5	1.187	2.027	19.1	20.6	12 7	2 8.28	+10 16.5	1.814	2.633	14.4	20.6
<b>244526</b>	2002 <i>TU</i> <sub>232</sub>	11	3.6 82°00	2°9/ 6.3 18			<b>244881</b>	2003 <i>UJ</i> <sub>316</sub>	11	3.6 33°55	0°4/ 3.4 18		
9 28	3 4.97	+28 33.5	1.967	2.744	15.7	20.2	9 28	3 7.54	+12 22.7	1.413	2.251	17.7	20.2
10 8	2 59.15	+27 48.2	1.910	2.776	12.4	20.1	10 8	3 2.04	+12 57.6	1.353	2.262	13.6	20.0
10 18	2 51.14	+26 43.4	1.874	2.807	8.8	19.9	10 18	2 53.55	+13 28.0	1.314	2.275	8.8	19.8
10 28	2 41.83	+25 20.9	1.865	2.838	5.0	19.7	10 28	2 42.97	+13 54.5	1.299	2.287	3.5	19.5
11 7	2 32.28	+23 45.8	1.885	2.869	2.9	19.7	11 7	2 31.66	+14 18.3	1.312	2.301	2.0	19.4
11 17	2 23.55	+22 5.5	1.935	2.899	5.3	19.9	11 17	2 21.08	+14 41.8	1.351	2.315	7.2	19.8
11 27	2 16.53	+20 28.3	2.014	2.928	8.8	20.1	11 27	2 12.56	+15 8.0	1.417	2.330	11.8	20.1
12 7	2 11.76	+19 1.3	2.119	2.957	11.9	20.4	12 7	2 6.94	+15 39.4	1.504	2.345	15.7	20.4
<b>186826</b>	2004 <i>FH</i> <sub>37</sub>	11	3.6 329°81	0°3/ 3.4 18			<b>301277</b>	2009 <i>BW</i> <sub>90</sub>	11	3.6 10°01	2°9/ 5.5 18		
9 28	3 0.84	+15 39.7	1.229	2.083	18.9	19.9	9 28	3 1.65	+23 32.4	1.586	2.402	17.1	20.9
10 8	2 57.64	+15 34.6	1.153	2.071	14.7	19.6	10 8	2 57.56	+23 39.9	1.511	2.403	13.6	20.7
10 18	2 51.16	+15 17.6	1.095	2.059	9.6	19.3	10 18	2 50.71	+23 31.2	1.457	2.404	9.5	20.4
10 28	2 42.15	+14 50.9	1.059	2.048	3.9	18.9	10 28	2 41.87	+23 5.8	1.426	2.405	5.1	20.2
11 7	2 31.99	+14 19.1	1.048	2.038	2.2	18.8	11 7	2 32.24	+22 26.4	1.421	2.408	3.0	20.1
11 17	2 22.31	+13 48.7	1.062	2.028	8.2	19.1	11 17	2 23.15	+21 38.4	1.444	2.410	6.4	20.3
11 27	2 14.69	+13 27.0	1.099	2.020	13.7	19.4	11 27	2 15.85	+20 49.1	1.492	2.413	10.7	20.6
12 7	2 10.20	+13 19.4	1.156	2.012	18.4	19.7	12 7	2 11.18	+20 5.8	1.564	2.416	14.6	20.8
<b>438262</b>	2005 <i>WM</i> <sub>211</sub>	11	3.6 167°13	2°2/ 5.3 18			<b>278364</b>	2007 <i>KL</i> <sub>3</sub>	11	3.6 85°63	0°9/ 4.2 18		
9 28	3 3.35	+24 3.1	1.857	2.657	15.6	21.6	9 28	3 5.66	+19 10.8	1.717	2.532	16.1	21.2
10 8	2 58.40	+23 42.1	1.777	2.660	12.3	21.4	10 8	3 0.03	+19 0.2	1.659	2.555	12.4	21.0
10 18	2 51.00	+23 4.4	1.718	2.663	8.5	21.2	10 18	2 51.93	+18 37.3	1.623	2.577	8.1	20.8
10 28	2 41.91	+22 10.9	1.685	2.665	4.4	20.9	10 28	2 42.24	+18 3.9	1.613	2.598	3.5	20.5
11 7	2 32.18	+21 5.2	1.679	2.666	2.3	20.8	11 7	2 32.10	+17 23.9	1.630	2.620	1.6	20.5
11 17	2 22.98	+19 53.4	1.703	2.668	5.8	21.0	11 17	2 22.70	+16 42.5	1.677	2.641	6.0	20.8
11 27	2 15.39	+18 43.0	1.754	2.669	9.8	21.3	11 27	2 15.07	+16 5.6	1.750	2.662	10.0	21.1
12 7	2 10.14	+17 41.2	1.830	2.669	13.4	21.5	12 7	2 9.88	+15 37.8	1.848	2.682	13.5	21.4
<b>248647</b>	2006 <i>HL</i> <sub>19</sub>	11	3.6 205°00	2°9/ 1.4 18			<b>480400</b>	2015 <i>KC</i> <sub>67</sub>	11	3.6 44°02	5°4/ 31.8 18		
9 28	3 1.04	+10 18.0	1.854	2.691	14.2	20.9	9 28	3 3.34	+4 37.5	1.312	2.169	17.7	20.5
10 8	2 56.47	+9 28.4	1.779	2.689	10.8	20.7	10 8	2 58.62	+3 54.1	1.271	2.189	13.6	20.3
10 18	2 49.69	+8 32.4	1.726	2.687	7.0	20.5	10 18	2 51.15	+3 11.5	1.250	2.210	9.2	20.1
10 28	2 41.37	+7 34.8	1.700	2.685	3.5	20.2	10 28	2 41.93	+2 36.7	1.253	2.232	5.8	20.0
11 7	2 32.46	+6 41.4	1.703	2.683	3.8	20.3	11 7	2 32.29	+2 15.8	1.281	2.254	6.4	20.1
11 17	2 24.00	+5 57.8	1.733	2.681	7.5	20.5	11 17	2 23.56	+2 13.0	1.334	2.276	9.9	20.4
11 27	2 16.97	+5 28.6	1.790	2.678	11.2	20.7	11 27	2 16.87	+2 30.0	1.412	2.299	13.7	20.6
12 7	2 12.06	+5 16.1	1.869	2.676	14.5	20.9	12 7	2 12.86	+3 5.5	1.510	2.323	17.1	20.9
<b>483300</b>	2015 <i>UK</i> <sub>32</sub>	11	3.6 222°29	1°1/ 2.7 18			<b>327614</b>	2006 <i>FN</i> <sub>20</sub>	11	3.6 18°80	0°7/ 2.9 18		
9 28	3 0.60	+13 30.2	2.060	2.887	13.3	21.3	9 28	2 56.99	+16 22.8	2.253	3.076	12.5	20.4
10 8	2 55.97	+13 8.6	1.982	2.886	10.2	21.1	10 8	2 53.05	+15 37.5	2.174	3.077	9.5	20.3
10 18	2 49.29	+12 40.2	1.926	2.885	6.5	20.9	10 18	2 47.33	+14 42.7	2.120	3.078	6.1	20.0
10 28	2 41.19	+12 7.5	1.897	2.885	2.6	20.7	10 28	2 40.40	+13 41.6	2.092	3.080	2.4	19.8
11 7	2 32.55	+11 34.5	1.897	2.884	2.1	20.6	11 7	2 33.04	+12 38.5	2.094	3.082	1.7	19.8
11 17	2 24.29	+11 5.2	1.926	2.883	6.0	20.9	11 17	2 26.05	+11 38.7	2.125	3.084	5.4	20.0
11 27	2 17.33	+10 43.7	1.982	2.883	9.7	21.1	11 27	2 20.21	+10 47.0	2.184	3.086	8.8	20.2
12 7	2 12.31	+10 33.1	2.062	2.882	12.9	21.3	12 7	2 16.09	+10 7.2	2.268	3.088	11.8	20.4
<b>3741</b>	Rogerburns	11	3.6 59°62	2°5/ 1.7 18			<b>287293</b>	2002 <i>TW</i> <sub>197</sub>	11	3.6 339°85	2°1/ 1.9 18		
9 28	2 59.94	+11 56.2	1.734	2.574	14.9	17.2	9 28	2 56.18	+15 36.8	1.538	2.386	16.0	19.7
10 8	2 55.59	+11 0.6	1.676	2.588	11.2	17.0	10 8	2 53.28	+14 18.7	1.461	2.377	12.3	19.4
10 18	2 49.04	+9 57.6	1.641	2.604	7.2	16.8	10 18	2 47.88	+12 45.2	1.405	2.370	7.8	19.2
10 28	2 41.06	+8 52.7	1.633	2.619	3.3	16.6	10 28	2 40.72	+11 2.3	1.374	2.363	3.3	18.9
11 7	2 32.66	+7 51.9	1.652	2.634	3.5	16.6	11 7	2 32.86	+9 18.7	1.371	2.356	3.4	18.9
11 17	2 24.88	+7 1.3	1.698	2.650	7.3	16.9	11 17	2 25.49	+7 44.3	1.394	2.351	8.0	19.1
11 27	2 18.64	+6 25.5	1.771	2.666	11.0	17.2	11 27	2 19.72	+6 27.7	1.443	2.346	12.4	19.4
12 7	2 14.55	+6 6.9	1.867	2.681	14.2	17.4	12 7	2 16.30	+5 33.8	1.514	2.341	16.3	19.6
<b>445588</b>	2011 <i>SE</i> <sub>23</sub>	11	3.6 338°39	8°3/ 7.8 18			<b>304197</b>	2006 <i>QL</i> <sub>96</sub>	11	3.6 92°07	1°5/ 4.5 18		
9 28	3 12.26	+3											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>408043</b>	2012 <i>FN</i> <sub>66</sub>		11 3.6 73°03	1.6/ 4.6	18		<b>484197</b>	2006 <i>VU</i> <sub>132</sub>		11 3.6 309°54	1.6/ 2.7	18	
9 28	3 3.63	+19 30.3	2.230	3.032	13.3	20.9	9 28	3 0.85	+14 11.2	1.331	2.182	17.9	21.7
10 8	2 58.22	+19 53.1	2.152	3.038	10.3	20.7	10 8	2 57.45	+13 42.4	1.249	2.167	13.8	21.5
10 18	2 50.73	+20 7.3	2.096	3.044	7.0	20.5	10 18	2 50.95	+13 1.5	1.187	2.151	9.0	21.1
10 28	2 41.80	+20 12.7	2.068	3.051	3.4	20.3	10 28	2 42.10	+12 12.4	1.148	2.136	3.7	20.8
11 7	2 32.30	+20 10.8	2.069	3.057	1.8	20.2	11 7	2 32.16	+11 21.3	1.134	2.122	3.0	20.7
11 17	2 23.18	+20 3.8	2.100	3.064	5.0	20.5	11 17	2 22.62	+10 35.8	1.146	2.108	8.4	21.0
11 27	2 15.36	+19 55.3	2.159	3.070	8.5	20.7	11 27	2 14.98	+10 3.4	1.181	2.094	13.7	21.3
12 7	2 9.49	+19 49.2	2.244	3.076	11.5	20.9	12 7	2 10.25	+9 48.9	1.238	2.081	18.3	21.5
<b>73143</b>	2002 <i>GF</i> <sub>89</sub>		11 3.6 82°67	4.6/30.8	18		<b>4123</b>	<i>Tarsila</i>		11 3.6 345°64	0.4/ 3.3	18	
9 28	3 0.39	+7 55.9	1.727	2.571	14.7	19.0	9 28	3 0.64	+15 29.5	1.836	2.665	14.6	17.4
10 8	2 55.87	+6 21.7	1.674	2.588	11.2	18.8	10 8	2 56.33	+15 16.8	1.757	2.662	11.2	17.1
10 18	2 49.20	+4 42.9	1.644	2.604	7.4	18.6	10 18	2 49.71	+14 55.3	1.701	2.660	7.3	16.9
10 28	2 41.13	+3 7.1	1.641	2.620	4.8	18.5	10 28	2 41.46	+14 27.1	1.670	2.658	2.9	16.6
11 7	2 32.70	+1 42.4	1.666	2.636	5.6	18.6	11 7	2 32.55	+13 56.1	1.667	2.656	1.7	16.5
11 17	2 24.90	+0 35.8	1.719	2.651	8.8	18.8	11 17	2 24.07	+13 26.6	1.693	2.655	6.1	16.8
11 27	2 18.65	-0 8.7	1.797	2.667	12.2	19.0	11 27	2 17.03	+13 3.5	1.745	2.654	10.2	17.1
12 7	2 14.53	-0 30.2	1.897	2.682	15.2	19.3	12 7	2 12.17	+12 50.6	1.820	2.653	13.8	17.3
<b>440781</b>	2006 <i>KT</i> <sub>18</sub>		11 3.6 64°02	7.9/29.0	15		<b>354033</b>	2001 <i>RL</i> <sub>57</sub>		11 3.6 33°31	6.3/30.2	18	
9 28	3 2.13	-1 37.9	1.597	2.443	15.6	21.0	9 28	2 58.22	+3 48.2	1.485	2.344	15.9	20.1
10 8	2 57.14	-3 14.7	1.566	2.471	12.3	20.9	10 8	2 54.56	+2 24.2	1.439	2.357	12.3	19.9
10 18	2 49.94	-4 44.9	1.557	2.499	9.4	20.8	10 18	2 48.51	+1 0.3	1.414	2.372	8.6	19.7
10 28	2 41.39	-5 59.4	1.573	2.528	8.0	20.8	10 28	2 40.92	-0 15.0	1.414	2.387	6.4	19.6
11 7	2 32.60	-6 51.2	1.616	2.556	8.9	20.9	11 7	2 32.90	-1 13.6	1.440	2.403	7.3	19.7
11 17	2 24.63	-7 16.5	1.684	2.584	11.3	21.1	11 17	2 25.57	-1 49.9	1.492	2.419	10.4	19.9
11 27	2 18.36	-7 14.9	1.776	2.612	14.0	21.3	11 27	2 19.92	-2 1.1	1.567	2.436	13.7	20.2
12 7	2 14.32	-6 49.2	1.887	2.639	16.4	21.6	12 7	2 16.55	-1 48.5	1.662	2.454	16.7	20.4
<b>136128</b>	2003 <i>SO</i> <sub>36</sub>		11 3.6 341°67	0°0/ 3.4	18		<b>448466</b>	2010 <i>FJ</i> <sub>20</sub>		11 3.6 148°92	4.7/30.3	18	
9 28	3 0.90	+16 38.9	1.157	2.013	19.7	19.6	9 28	3 1.24	+3 44.0	2.247	3.077	12.2	22.4
10 8	2 57.81	+16 30.5	1.086	2.005	15.3	19.3	10 8	2 56.12	+2 29.9	2.184	3.087	9.4	22.3
10 18	2 51.31	+16 8.2	1.034	1.999	10.0	19.0	10 18	2 49.23	+1 15.2	2.145	3.096	6.6	22.1
10 28	2 42.25	+15 34.1	1.004	1.993	4.1	18.7	10 28	2 41.18	+0 5.5	2.135	3.105	4.8	22.0
11 7	2 32.07	+14 53.7	0.998	1.987	2.2	18.5	11 7	2 32.76	-0 53.5	2.154	3.113	5.5	22.1
11 17	2 22.50	+14 14.3	1.016	1.983	8.3	18.9	11 17	2 24.79	-1 37.4	2.202	3.120	8.0	22.2
11 27	2 15.13	+13 44.0	1.057	1.980	13.9	19.2	11 27	2 18.04	-2 3.2	2.276	3.127	10.7	22.4
12 7	2 11.01	+13 28.7	1.118	1.977	18.6	19.5	12 7	2 13.03	-2 10.6	2.374	3.133	13.2	22.6
<b>394948</b>	2008 <i>YG</i> <sub>48</sub>		11 3.6 188°85	5°8/29.6	18		<b>382068</b>	2011 <i>ET</i> <sub>54</sub>		11 3.6 250°25	2°8/ 1.9	18	
9 28	3 1.94	-1 57.7	2.410	3.234	11.7	22.0	9 28	3 4.33	+9 55.8	1.651	2.488	15.6	21.0
10 8	2 56.60	-2 52.4	2.340	3.233	9.3	21.8	10 8	2 59.43	+9 27.9	1.568	2.479	12.0	20.8
10 18	2 49.53	-3 43.7	2.293	3.232	7.1	21.7	10 18	2 51.89	+8 54.2	1.508	2.468	7.8	20.5
10 28	2 41.28	-4 26.2	2.275	3.230	5.8	21.6	10 28	2 42.41	+8 19.1	1.472	2.458	3.7	20.2
11 7	2 32.61	-4 55.4	2.285	3.227	6.5	21.6	11 7	2 32.08	+7 47.6	1.465	2.448	3.8	20.2
11 17	2 24.31	-5 8.0	2.323	3.224	8.6	21.8	11 17	2 22.15	+7 25.0	1.484	2.437	8.0	20.5
11 27	2 17.12	-5 2.5	2.388	3.220	11.0	21.9	11 27	2 13.84	+7 15.7	1.530	2.426	12.3	20.7
12 7	2 11.60	-4 39.6	2.475	3.215	13.2	22.1	12 7	2 8.01	+7 22.1	1.598	2.414	16.1	20.9
<b>500784</b>	2013 <i>EG</i> <sub>42</sub>		11 3.6 247°95	0°1/ 3.4	17		<b>290287</b>	2005 <i>SX</i> <sub>160</sub>		11 3.6 320°51	0°0/ 3.5	18	
9 28	2 51.65	+15 52.1	4.439	5.245	7.1	22.0	9 28	2 59.92	+17 27.0	1.998	2.819	13.9	21.5
10 8	2 48.20	+15 32.4	4.350	5.243	5.4	21.8	10 8	2 55.61	+17 6.1	1.917	2.817	10.7	21.3
10 18	2 43.87	+15 8.4	4.287	5.242	3.4	21.7	10 18	2 49.16	+16 34.9	1.858	2.815	7.0	21.1
10 28	2 38.96	+14 41.6	4.253	5.240	1.4	21.5	10 28	2 41.23	+15 55.5	1.825	2.813	2.9	20.8
11 7	2 33.82	+14 13.5	4.249	5.238	0.8	21.5	11 7	2 32.71	+15 11.7	1.821	2.811	1.4	20.7
11 17	2 28.84	+13 46.1	4.277	5.237	2.9	21.7	11 17	2 24.58	+14 28.2	1.846	2.809	5.7	21.0
11 27	2 24.38	+13 21.2	4.335	5.235	4.9	21.8	11 27	2 17.79	+13 50.2	1.898	2.807	9.5	21.3
12 7	2 20.76	+13 0.6	4.420	5.233	6.6	21.9	12 7	2 13.01	+13 22.0	1.974	2.805	12.9	21.5
<b>327724</b>	2006 <i>SX</i> <sub>185</sub>		11 3.6 31°06	1°2/ 4.1	18		<b>60299</b>	1999 <i>XX</i> <sub>174</sub>		11 3.6 279°96	1°1/ 4.3	18	
9 28	3 4.17	+17 47.8	1.104	1.956	20.7	20.6	9 28	3 2.90	+18 57.5	1.855	2.671	15.0	19.6
10 8	3 0.18	+18 3.9	1.052	1.967	16.0	20.3	10 8	2 58.26	+19 1.9	1.763	2.658	11.7	19.4
10 18	2 52.68	+18 6.1	1.017	1.979	10.6	20.1	10 18	2 51.11	+18 55.7	1.692	2.645	7.9	19.1
10 28	2 42.71	+17 55.5	1.005	1.992	4.6	19.8	10 28	2 42.10	+18 39.1	1.647	2.632	3.6	18.8
11 7	2 31.91	+17 35.7	1.016	2.005	2.1	19.7	11 7	2 32.23	+18 14.7	1.630	2.619	1.7	18.7
11 17	2 22.05	+17 12.7	1.051	2.020	7.8	20.1	11 17	2 22.65	+17 46.2	1.641	2.606	6.0	18.9
11 27	2 14.67	+16 54.0	1.110	2.035	13.1	20.4	11 27	2 14.52	+17 19.1	1.680	2.593	10.3	19.2
12 7	2 10.62	+16 45.3	1.190	2.051	17.6	20.8	12 7	2 8.70	+16 58.4	1.742	2.580	14.0	19.4
<b>400435</b>	2008 <i>DA</i> <sub>23</sub>		11 3.6 212°58	4°3/ 7.6	18		<b>522839</b>	2016 <i>NH</i> <sub>84</sub>		11 3.6 249°24	5°2/ 6.8	18	
9 28	3 2.42	+31 2.6	2.431	3.186	13.6	21.1	9 28	3 5.61	+28 26.7	1.534	2.329	18.6	21.7
10 8	2 57.38	+31 3.6	2.335	3.181	11.2	20.9	10 8	3 1.01	+28 50.4	1.452	2.325	15.2	21.5
10 18	2 50.25	+30 48.3	2.260	3.175	8.5	20.8	10 18	2 53.21	+28 54.0	1.389	2.320	11.3	21.2
10 28	2 41.65	+30 15.2	2.211	3.168	5.8	20.6	10 28	2 43.03	+28 34.3	1.349	2.316	7.3	21.0
11 7	2 32.43	+29 25.7	2.190	3.161	4.3	20.5	11 7	2 31.79	+27 52.2	1.334	2.312	5.2	20.9
11 17	2 23.55	+28 23.2	2.198	3.154	5.5	20.6	11 17	2 21.07	+26 52.5	1.346	2.307	7.5	21.0
11 27	2 15.96	+27 13.6	2.236	3.147	8.2	20.7	11 27	2 12.36	+25 44.3	1.383	2.303	11.5	21.2
12 7	2 10.32	+26 3.7	2.299	3.139	11.0	20.9	12 7	2 6.67	+24 37.7	1.444	2.298	15.5	21.5
<b>446123</b>	2013 <i>EW</i> <sub>19</sub>		11 3.6 96°91	2°0/ 1.9	18		<b>521652</b>	2015 <i>QB</i> <sub>19</sub>		11 3.6 93°52	4°0/31.8	18	
9 28	3 0.02	+12 1.5											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>485949</b>	2012 <i>HR</i> <sub>50</sub>	11	3.6 275°75	4°3/31.5	17		<b>444926</b>	2008 <i>AK</i> <sub>116</sub>	11	3.6 339°99	6°0/ 7.0	17	
9 28	3 2.19	+ 2 9.5	2.333	3.159	12.0	21.3	9 28	3 1.57	+28 35.1	1.533	2.334	18.3	20.6
10 8	2 57.06	+ 1 48.1	2.241	3.141	9.4	21.1	10 8	2 58.02	+29 22.7	1.449	2.323	15.1	20.4
10 18	2 50.02	+ 1 28.3	2.173	3.123	6.6	20.9	10 18	2 51.39	+29 52.3	1.383	2.313	11.5	20.1
10 28	2 41.60	+ 1 14.1	2.132	3.105	4.5	20.7	10 28	2 42.37	+30 0.1	1.341	2.304	7.9	19.9
11 7	2 32.56	+ 1 9.1	2.120	3.086	5.0	20.7	11 7	2 32.19	+29 45.3	1.322	2.296	6.0	19.8
11 17	2 23.75	+ 1 16.1	2.138	3.068	7.5	20.8	11 17	2 22.39	+29 10.9	1.330	2.289	7.9	19.9
11 27	2 16.02	+ 1 36.9	2.183	3.049	10.5	21.0	11 27	2 14.47	+28 24.2	1.362	2.283	11.5	20.1
12 7	2 10.03	+ 2 11.6	2.252	3.030	13.3	21.1	12 7	2 9.47	+27 34.7	1.416	2.277	15.3	20.3
<b>363777</b>	2005 <i>EB</i> <sub>290</sub>	11	3.6 96°93	1°2/ 2.6	18		<b>316125</b>	2009 <i>QB</i> <sub>54</sub>	11	3.6 94°40	3°2/ 6.5	18	
9 28	3 0.29	+15 31.7	1.883	2.711	14.3	20.7	9 28	3 4.01	+26 58.3	2.420	3.191	13.2	21.0
10 8	2 55.84	+14 37.8	1.814	2.719	10.9	20.4	10 8	2 58.32	+27 8.7	2.353	3.214	10.6	20.9
10 18	2 49.27	+13 33.4	1.767	2.728	7.0	20.2	10 18	2 50.70	+27 5.7	2.309	3.236	7.6	20.7
10 28	2 41.26	+12 22.6	1.748	2.736	2.8	20.0	10 28	2 41.83	+26 48.8	2.291	3.259	4.7	20.6
11 7	2 32.78	+11 11.4	1.757	2.744	2.3	20.0	11 7	2 32.56	+26 19.7	2.302	3.281	3.2	20.5
11 17	2 24.84	+10 5.9	1.794	2.751	6.4	20.3	11 17	2 23.79	+25 41.6	2.343	3.302	4.9	20.7
11 27	2 18.33	+ 9 12.1	1.859	2.759	10.2	20.5	11 27	2 16.35	+24 59.4	2.413	3.323	7.7	20.9
12 7	2 13.90	+ 8 33.7	1.948	2.767	13.5	20.7	12 7	2 10.82	+24 18.3	2.509	3.344	10.3	21.1
<b>350519</b>	2000 <i>CS</i> <sub>107</sub>	11	3.6 121°42	2°0/ 2.1	18		<b>168064</b>	2006 <i>BL</i> <sub>266</sub>	11	3.6 138°66	1°4/ 2.5	18	
9 28	3 1.30	+11 51.8	1.887	2.720	14.1	21.4	9 28	3 3.34	+12 53.0	2.155	2.974	13.1	21.1
10 8	2 56.66	+11 16.9	1.815	2.723	10.8	21.1	10 8	2 57.89	+12 24.8	2.084	2.985	9.9	20.9
10 18	2 49.84	+10 35.5	1.765	2.726	6.9	20.9	10 18	2 50.48	+11 50.2	2.038	2.996	6.4	20.7
10 28	2 41.52	+ 9 51.2	1.742	2.728	3.1	20.7	10 28	2 41.75	+11 12.3	2.019	3.006	2.6	20.5
11 7	2 32.65	+ 9 8.9	1.747	2.731	3.0	20.7	11 7	2 32.60	+10 35.0	2.029	3.015	2.3	20.5
11 17	2 24.25	+ 8 33.6	1.780	2.734	6.8	20.9	11 17	2 23.91	+10 2.5	2.069	3.024	5.9	20.7
11 27	2 17.27	+ 8 9.6	1.840	2.736	10.5	21.2	11 27	2 16.55	+ 9 38.5	2.138	3.033	9.4	21.0
12 7	2 12.38	+ 7 59.4	1.923	2.739	13.8	21.4	12 7	2 11.11	+ 9 25.6	2.231	3.040	12.4	21.2
<b>316004</b>	2009 <i>EV</i> <sub>17</sub>	11	3.6 120°43	3°3/ 5.6	14 C		<b>212947</b>	2009 <i>AC</i> <sub>28</sub>	11	3.6 219°50	4°4/30.9	18	
9 28	3 8.11	+24 11.8	1.481	2.288	18.5	21.8	9 28	2 59.87	+ 5 36.3	2.033	2.871	13.1	20.9
10 8	3 2.66	+24 22.7	1.412	2.298	14.7	21.6	10 8	2 55.43	+ 4 32.4	1.958	2.867	10.1	20.7
10 18	2 54.09	+24 15.7	1.364	2.308	10.3	21.3	10 18	2 49.00	+ 3 25.8	1.907	2.863	6.9	20.5
10 28	2 43.32	+23 49.9	1.339	2.317	5.7	21.1	10 28	2 41.20	+ 2 22.0	1.883	2.859	4.6	20.4
11 7	2 31.74	+23 7.9	1.341	2.326	3.4	21.0	11 7	2 32.87	+ 1 27.2	1.887	2.855	5.3	20.4
11 17	2 20.91	+22 15.5	1.370	2.335	6.9	21.2	11 17	2 24.93	+ 0 46.5	1.919	2.850	8.2	20.6
11 27	2 12.20	+21 21.4	1.425	2.343	11.3	21.5	11 27	2 18.25	+ 0 23.3	1.978	2.846	11.4	20.8
12 7	2 6.48	+20 33.6	1.503	2.351	15.3	21.8	12 7	2 13.46	+ 0 18.9	2.059	2.841	14.2	20.9
<b>503299</b>	2016 <i>AP</i> <sub>66</sub>	11	3.6 334°01	22°7/19.0	17		<b>299655</b>	2006 <i>MG</i>	11	3.6 39°86	3°9/ 1.2	18	
9 28	3 5.84	+52 29.9	0.992	1.716	30.8	20.8	9 28	3 0.70	+ 9 3.7	1.369	2.225	17.2	20.1
10 8	3 5.46	+55 14.6	0.931	1.705	29.0	20.6	10 8	2 56.64	+ 8 8.5	1.324	2.244	13.0	19.9
10 18	2 58.81	+57 22.1	0.878	1.695	27.0	20.4	10 18	2 49.94	+ 7 8.5	1.299	2.263	8.4	19.7
10 28	2 46.17	+58 34.0	0.837	1.686	25.1	20.2	10 28	2 41.56	+ 6 10.6	1.299	2.283	4.5	19.6
11 7	2 30.02	+58 35.0	0.808	1.679	23.5	20.1	11 7	2 32.74	+ 5 21.9	1.324	2.303	5.0	19.6
11 17	2 14.54	+57 19.1	0.793	1.672	22.7	20.0	11 17	2 24.73	+ 4 48.5	1.375	2.325	8.9	19.9
11 27	2 3.93	+54 56.3	0.793	1.666	23.1	20.0	11 27	2 18.61	+ 4 34.2	1.451	2.346	12.9	20.2
12 7	2 0.28	+51 49.6	0.808	1.662	24.5	20.1	12 7	2 15.02	+ 4 39.7	1.547	2.368	16.4	20.5
<b>495832</b>	2000 <i>JV</i> <sub>60</sub>	11	3.6 228°89	0°8/ 4.6	17		<b>454058</b>	2012 <i>JM</i> <sub>15</sub>	11	3.6 250°41	1°1/ 4.7	17	
9 28	2 58.52	+20 57.9	3.813	4.593	8.6	24.6	9 28	2 58.55	+21 36.9	2.528	3.326	12.0	21.9
10 8	2 53.61	+20 36.4	3.701	4.576	6.7	24.4	10 8	2 54.24	+21 7.7	2.430	3.316	9.4	21.8
10 18	2 47.48	+20 7.1	3.615	4.559	4.5	24.3	10 18	2 48.16	+20 26.6	2.357	3.305	6.3	21.5
10 28	2 40.51	+19 31.1	3.558	4.540	2.1	24.1	10 28	2 40.86	+19 35.2	2.310	3.294	3.0	21.3
11 7	2 33.17	+18 50.1	3.533	4.521	1.0	24.0	11 7	2 33.04	+18 36.3	2.293	3.282	1.4	21.2
11 17	2 25.99	+18 6.5	3.540	4.501	3.3	24.1	11 17	2 25.49	+17 34.5	2.307	3.271	4.6	21.4
11 27	2 19.48	+17 23.3	3.578	4.481	5.7	24.3	11 27	2 19.00	+16 34.7	2.349	3.259	7.9	21.6
12 7	2 14.07	+16 43.5	3.644	4.460	7.9	24.4	12 7	2 14.15	+15 41.8	2.418	3.247	10.9	21.8
<b>195059</b>	2002 <i>CZ</i> <sub>82</sub>	11	3.6 131°15	1°3/ 2.8	18		<b>481716</b>	2008 <i>EZ</i> <sub>46</sub>	11	3.6 255°09	4°2/30.9	18	
9 28	3 3.46	+13 35.4	1.793	2.621	14.9	20.4	9 28	2 58.53	+ 6 10.9	2.124	2.961	12.6	21.7
10 8	2 58.43	+13 12.3	1.721	2.627	11.4	20.2	10 8	2 54.37	+ 5 4.4	2.045	2.954	9.7	21.5
10 18	2 51.04	+12 41.4	1.672	2.632	7.3	20.0	10 18	2 48.31	+ 3 54.5	1.990	2.947	6.6	21.3
10 28	2 42.03	+12 5.8	1.649	2.636	3.0	19.7	10 28	2 40.93	+ 2 46.7	1.963	2.940	4.3	21.2
11 7	2 32.42	+11 29.8	1.654	2.641	2.3	19.7	11 7	2 33.04	+ 1 46.8	1.964	2.932	5.0	21.2
11 17	2 23.33	+10 58.3	1.687	2.645	6.6	19.9	11 17	2 25.48	+ 1 0.1	1.993	2.924	7.9	21.4
11 27	2 15.79	+10 36.0	1.747	2.650	10.7	20.2	11 27	2 19.11	+ 0 30.5	2.049	2.917	11.0	21.6
12 7	2 10.52	+10 25.9	1.831	2.654	14.1	20.4	12 7	2 14.52	+ 0 19.3	2.127	2.909	13.8	21.8
<b>249726</b>	2000 <i>SS</i> <sub>26</sub>	11	3.6 351°37	3°3/ 5.5	18		<b>213333</b>	2001 <i>SX</i> <sub>154</sub>	11	3.6 56°08	3°3/ 5.7	18	
9 28	2 59.80	+24 4.4	1.119	1.962	21.1	19.8	9 28	3 6.34	+23 49.6	1.686	2.488	16.9	20.2
10 8	2 57.22	+24 3.1	1.050	1.957	16.8	19.6	10 8	3 0.77	+24 16.2	1.631	2.513	13.3	20.0
10 18	2 51.07	+23 38.5	0.998	1.953	11.8	19.3	10 18	2 52.58	+24 27.8	1.597	2.538	9.3	19.9
10 28	2 42.24	+22 50.2	0.967	1.950	6.3	19.0	10 28	2 42.65	+24 23.6	1.587	2.563	5.3	19.7
11 7	2 32.29	+21 42.7	0.960	1.947	3.4	18.8	11 7	2 32.20	+24 5.4	1.605	2.588	3.3	19.6
11 17	2 23.03	+20 24.9	0.976	1.946	7.9	19.1	11 17	2 22.50	+23 37.4	1.650	2.614	6.1	19.9
11 27	2 16.14	+19 9.0	1.015	1.946	13.4	19.4	11 27	2 14.68	+23 5.8	1.723	2.639	9.8	20.1
12 7	2 12.64	+18 5.7	1.074	1.946	18.3	19.6	12 7	2 9.42	+22 36.9	1.819	2.665	13.2	20.4
<b>393063</b>	2013 <i>AB</i> <sub>75</sub>	11	3.6 101°39	0°1/ 3.5	18		<b>358144</b>	2006 <i>QH</i> <sub>185</sub>	11	3.6 17°69	2°3/ 2		

EPHEMERIDES

11 3.6

11 3.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>72662</b>	2001 <i>FT</i> <sub>48</sub>		11 3.6 69°84	3°9/ 6.4	18		<b>51300</b>	2000 <i>KL</i> <sub>52</sub>		11 3.6 251°99	2°5/ 5.2	18	
9 28	3 5.55	+26 15.3	2.272	3.047	13.9	18.3	9 28	3 5.75	+21 43.2	2.053	2.850	14.4	19.5
10 8	2 59.82	+26 59.0	2.195	3.057	11.2	18.1	10 8	3 0.30	+22 13.2	1.961	2.842	11.5	19.2
10 18	2 51.90	+27 30.5	2.141	3.068	8.2	18.0	10 18	2 52.43	+22 33.0	1.891	2.833	8.0	19.0
10 28	2 42.41	+27 48.0	2.113	3.078	5.3	17.8	10 28	2 42.73	+22 41.5	1.847	2.825	4.3	18.8
11 7	2 32.29	+27 51.5	2.113	3.089	3.9	17.7	11 7	2 32.19	+22 39.2	1.831	2.817	2.6	18.6
11 17	2 22.56	+27 42.9	2.143	3.100	5.6	17.9	11 17	2 21.91	+22 28.5	1.845	2.808	5.7	18.8
11 27	2 14.21	+27 26.4	2.202	3.111	8.4	18.1	11 27	2 13.03	+22 13.5	1.887	2.799	9.4	19.0
12 7	2 7.93	+27 7.2	2.286	3.121	11.2	18.3	12 7	2 6.37	+21 59.5	1.954	2.790	12.8	19.2
<b>275526</b>	1997 <i>WL</i> <sub>3</sub>		11 3.6 15°67	0°6/ 3.3	18		<b>279724</b>	1991 <i>RL</i> <sub>28</sub>		11 3.6 86°03	3°1/ 1.5	18	
9 28	3 4.53	+12 13.8	2.066	2.887	13.5	19.9	9 28	3 4.22	+ 9 36.5	1.736	2.571	15.1	20.9
10 8	2 59.04	+12 37.4	1.989	2.889	10.4	19.7	10 8	2 58.78	+ 8 46.2	1.686	2.595	11.4	20.7
10 18	2 51.39	+12 57.6	1.935	2.892	6.7	19.4	10 18	2 51.12	+ 7 51.3	1.659	2.619	7.4	20.5
10 28	2 42.21	+13 15.3	1.908	2.895	2.7	19.2	10 28	2 42.05	+ 6 57.0	1.658	2.642	3.8	20.4
11 7	2 32.42	+13 31.9	1.910	2.899	1.7	19.1	11 7	2 32.64	+ 6 9.3	1.685	2.665	4.0	20.4
11 17	2 23.01	+13 49.2	1.942	2.902	5.7	19.4	11 17	2 23.95	+ 5 33.1	1.741	2.688	7.5	20.7
11 27	2 14.94	+14 9.6	2.002	2.906	9.4	19.6	11 27	2 16.91	+ 5 12.1	1.823	2.710	11.2	21.0
12 7	2 8.92	+14 35.1	2.087	2.911	12.6	19.9	12 7	2 12.10	+ 5 7.6	1.928	2.732	14.2	21.2
<b>317917</b>	Jodelle		11 3.6 68°95	0°9/ 2.8	18		<b>119385</b>	2001 <i>TU</i> <sub>7</sub>		11 3.6 166°75	0°5/ 3.9	18	
9 28	2 59.24	+14 55.6	2.153	2.977	12.9	21.1	9 28	3 5.95	+17 36.8	1.870	2.684	15.0	19.4
10 8	2 54.77	+14 18.5	2.089	2.992	9.8	20.9	10 8	3 0.39	+17 34.5	1.792	2.687	11.6	19.2
10 18	2 48.46	+13 33.6	2.048	3.007	6.2	20.7	10 18	2 52.39	+17 22.2	1.736	2.690	7.6	19.0
10 28	2 40.96	+12 44.1	2.035	3.023	2.5	20.5	10 28	2 42.67	+17 1.2	1.706	2.692	3.2	18.7
11 7	2 33.09	+11 54.2	2.051	3.038	1.9	20.5	11 7	2 32.28	+16 34.2	1.705	2.694	1.5	18.6
11 17	2 25.70	+11 8.7	2.096	3.054	5.5	20.8	11 17	2 22.35	+16 5.4	1.733	2.696	5.9	18.9
11 27	2 19.57	+10 31.7	2.169	3.070	9.0	21.0	11 27	2 13.99	+15 40.0	1.788	2.697	10.0	19.2
12 7	2 15.24	+10 6.2	2.266	3.085	11.9	21.2	12 7	2 7.95	+15 22.4	1.868	2.698	13.6	19.4
<b>447598</b>	2006 <i>UG</i> <sub>85</sub>		11 3.6 288°17	1°2/ 4.1	17		<b>441720</b>	2009 <i>BC</i> <sub>37</sub>		11 3.6 356°04	2°2/ 2.4	18	
9 28	3 10.28	+15 46.7	1.970	2.776	14.6	20.9	9 28	2 59.82	+12 5.3	1.408	2.260	17.0	20.9
10 8	3 3.96	+16 37.8	1.870	2.759	11.5	20.7	10 8	2 56.33	+11 39.4	1.338	2.257	13.0	20.7
10 18	2 54.94	+17 25.2	1.792	2.743	7.7	20.4	10 18	2 50.05	+11 5.4	1.290	2.254	8.4	20.4
10 28	2 43.80	+18 7.4	1.741	2.726	3.5	20.1	10 28	2 41.78	+10 27.7	1.265	2.252	3.6	20.1
11 7	2 31.55	+18 44.1	1.721	2.710	1.8	20.0	11 7	2 32.73	+ 9 51.9	1.265	2.251	3.3	20.1
11 17	2 19.42	+19 15.5	1.731	2.693	6.0	20.2	11 17	2 24.21	+ 9 24.2	1.292	2.251	8.0	20.4
11 27	2 8.70	+19 43.9	1.770	2.677	10.2	20.4	11 27	2 17.49	+ 9 9.7	1.343	2.252	12.7	20.7
12 7	2 0.35	+20 12.7	1.834	2.660	13.9	20.6	12 7	2 13.40	+ 9 11.4	1.415	2.253	16.7	20.9
<b>365017</b>	2008 <i>PB</i> <sub>11</sub>		11 3.6 42°50	8°8/27.3	18		<b>193110</b>	2000 <i>GZ</i> <sub>151</sub>		11 3.6 215°38	0°7/ 4.3	18	
9 28	2 57.71	- 6 15.6	1.850	2.691	14.0	19.7	9 28	2 59.35	+19 20.1	2.900	3.696	10.6	21.4
10 8	2 53.71	- 7 55.6	1.816	2.711	11.5	19.6	10 8	2 54.61	+19 7.5	2.804	3.690	8.3	21.2
10 18	2 47.80	- 9 26.2	1.804	2.731	9.5	19.5	10 18	2 48.33	+18 46.6	2.734	3.683	5.5	21.1
10 28	2 40.67	-10 39.2	1.818	2.751	8.8	19.5	10 28	2 40.96	+18 18.5	2.691	3.675	2.5	20.8
11 7	2 33.26	-11 28.3	1.858	2.772	9.7	19.6	11 7	2 33.15	+17 45.5	2.679	3.668	1.1	20.7
11 17	2 26.43	-11 50.4	1.922	2.793	11.6	19.8	11 17	2 25.57	+17 10.5	2.697	3.660	4.1	20.9
11 27	2 20.98	-11 45.3	2.008	2.814	13.7	20.0	11 27	2 18.90	+16 36.9	2.745	3.651	7.1	21.1
12 7	2 17.44	-11 15.9	2.115	2.836	15.7	20.1	12 7	2 13.67	+16 8.2	2.819	3.642	9.7	21.3
<b>116771</b>	2004 <i>EN</i> <sub>17</sub>		11 3.6 90°24	6°5/29.3	18		<b>474689</b>	2005 <i>EL</i> <sub>208</sub>		11 3.6 147°84	0°7/ 3.2	16	
9 28	2 59.86	- 0 44.7	1.966	2.806	13.4	19.5	9 28	3 6.01	+16 6.4	1.768	2.588	15.5	22.9
10 8	2 55.35	- 2 0.1	1.911	2.815	10.6	19.3	10 8	3 0.41	+15 33.6	1.697	2.597	11.9	22.6
10 18	2 48.89	- 3 12.1	1.880	2.823	7.9	19.2	10 18	2 52.35	+14 50.0	1.649	2.606	7.6	22.4
10 28	2 41.15	- 4 13.9	1.874	2.832	6.6	19.1	10 28	2 42.63	+13 58.8	1.627	2.614	3.0	22.2
11 7	2 33.01	- 4 59.5	1.896	2.841	7.4	19.2	11 7	2 32.33	+13 4.8	1.633	2.622	1.9	22.1
11 17	2 25.38	- 5 24.6	1.945	2.850	9.7	19.4	11 17	2 22.64	+12 13.9	1.669	2.628	6.5	22.4
11 27	2 19.08	- 5 27.7	2.019	2.859	12.4	19.5	11 27	2 14.61	+11 32.1	1.731	2.635	10.7	22.7
12 7	2 14.67	- 5 9.8	2.113	2.867	14.8	19.7	12 7	2 8.96	+11 3.5	1.818	2.640	14.2	22.9
<b>495778</b>	2017 <i>FK</i> <sub>4</sub>		11 3.6 261°93	11°3/20.9	18		<b>164956</b>	1999 <i>YZ</i> <sub>13</sub>		11 3.6 328°68	2°6/ 1.9	18	
9 28	2 58.87	-21 57.1	2.457	3.236	12.8	21.2	9 28	3 1.99	+ 9 59.3	1.702	2.542	15.1	19.9
10 8	2 54.47	-23 36.3	2.408	3.225	11.8	21.1	10 8	2 57.51	+ 9 33.3	1.628	2.539	11.6	19.7
10 18	2 48.30	-24 59.8	2.380	3.214	11.3	21.0	10 18	2 50.61	+ 9 2.3	1.575	2.536	7.5	19.4
10 28	2 40.94	-26 0.5	2.376	3.203	11.5	21.0	10 28	2 41.97	+ 8 30.2	1.547	2.533	3.6	19.2
11 7	2 33.11	-26 33.2	2.395	3.192	12.2	21.0	11 7	2 32.65	+ 8 1.9	1.547	2.531	3.6	19.2
11 17	2 25.64	-26 35.8	2.434	3.180	13.4	21.1	11 17	2 23.78	+ 7 42.1	1.575	2.528	7.5	19.4
11 27	2 19.27	-26 8.7	2.493	3.169	14.7	21.2	11 27	2 16.45	+ 7 34.9	1.629	2.526	11.6	19.7
12 7	2 14.59	-25 15.4	2.569	3.158	15.9	21.3	12 7	2 11.43	+ 7 42.2	1.705	2.524	15.1	19.9
<b>124054</b>	2001 <i>FO</i> <sub>155</sub>		11 3.6 107°49	3°2/31.6	18		<b>255885</b>	2006 <i>SJ</i> <sub>263</sub>		11 3.6 111°94	2°6/ 5.7	18	
9 28	2 58.04	+ 7 47.9	2.304	3.137	11.9	19.6	9 28	3 2.03	+24 45.2	2.023	2.818	14.7	20.8
10 8	2 53.77	+ 6 51.1	2.234	3.142	9.0	19.4	10 8	2 57.30	+24 39.5	1.945	2.823	11.7	20.6
10 18	2 47.81	+ 5 50.9	2.189	3.147	6.0	19.3	10 18	2 50.34	+24 18.9	1.887	2.828	8.2	20.4
10 28	2 40.72	+ 4 51.9	2.172	3.152	3.5	19.1	10 28	2 41.82	+23 43.6	1.856	2.833	4.5	20.2
11 7	2 33.24	+ 3 59.1	2.183	3.157	4.0	19.2	11 7	2 32.73	+22 56.3	1.852	2.838	2.7	20.1
11 17	2 26.14	+ 3 16.8	2.224	3.162	6.8	19.3	11 17	2 24.10	+22 1.5	1.878	2.842	5.4	20.3
11 27	2 20.15	+ 2 48.3	2.291	3.166	9.7	19.5	11 27	2 16.93	+21 5.6	1.931	2.847	9.0	20.5
12 7	2 15.80	+ 2 35.2	2.383	3.171	12.3	19.7	12 7	2 11.89	+20 14.6	2.009	2.851	12.3	20.7
<b>142094</b>	2002 <i>QR</i> <sub>55</sub>		11 3.6 278°60	1°2/ 2.9	18		<b>122116</b>	2000 <i>JL</i> <sub>12</sub>		11 3.6 110°73	0°8/ 2.9	17	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>405771</b>	2005 YW <sub>228</sub>	11	3.6	38°72	4.4/ 7.4	17	<b>218776</b>	2005 WA <sub>194</sub>	11	3.7	27°62	4.7/31.1	18
9 28	3 1.20	+29 57.1	2.216	2.985	14.4	21.1	9 28	2 58.72	+5 15.8	1.821	2.667	14.0	19.9
10 8	2 56.66	+30 8.5	2.132	2.986	11.8	20.9	10 8	2 54.73	+4 15.7	1.758	2.671	10.7	19.7
10 18	2 49.93	+30 3.5	2.068	2.988	8.8	20.8	10 18	2 48.65	+3 13.9	1.718	2.676	7.4	19.5
10 28	2 41.67	+29 40.9	2.030	2.990	5.9	20.6	10 28	2 41.15	+2 16.6	1.705	2.681	4.9	19.4
11 7	2 32.80	+29 2.1	2.019	2.992	4.4	20.5	11 7	2 33.18	+1 29.7	1.718	2.687	5.6	19.5
11 17	2 24.33	+28 10.4	2.036	2.994	5.7	20.6	11 17	2 25.69	+0 58.4	1.759	2.693	8.6	19.7
11 27	2 17.23	+27 11.9	2.081	2.995	8.5	20.8	11 27	2 19.59	+0 45.6	1.825	2.699	11.8	19.9
12 7	2 12.17	+26 13.1	2.152	2.997	11.4	21.0	12 7	2 15.50	+0 52.0	1.912	2.705	14.8	20.1
<b>374850</b>	2006 VL <sub>2</sub>	11	3.6	38°33	3°5/ 5.7	18	<b>333212</b>	2012 HQ <sub>17</sub>	11	3.7	103°88	2°9/ 1.6	16
9 28	3 2.73	+24 55.5	1.139	1.973	21.3	20.6	9 28	3 5.99	+11 11.0	1.707	2.537	15.5	21.9
10 8	2 59.13	+24 53.1	1.087	1.988	16.9	20.4	10 8	3 0.19	+10 11.4	1.655	2.561	11.7	21.7
10 18	2 52.06	+24 27.2	1.052	2.003	11.8	20.1	10 18	2 52.07	+9 5.3	1.625	2.585	7.5	21.6
10 28	2 42.60	+23 38.3	1.038	2.019	6.4	19.9	10 28	2 42.49	+7 58.3	1.623	2.608	3.6	21.4
11 7	2 32.41	+22 31.7	1.049	2.035	3.6	19.8	11 7	2 32.56	+6 56.7	1.649	2.630	3.8	21.4
11 17	2 23.22	+21 16.4	1.084	2.053	7.5	20.1	11 17	2 23.40	+6 6.5	1.703	2.651	7.6	21.7
11 27	2 16.48	+20 4.0	1.142	2.071	12.5	20.4	11 27	2 15.96	+5 32.3	1.784	2.672	11.3	22.0
12 7	2 13.02	+19 3.7	1.222	2.089	16.8	20.7	12 7	2 10.85	+5 15.9	1.889	2.692	14.5	22.2
<b>21065</b>	Jamesmelka	11	3.6	103°59	3°0/ 6.9	18	<b>353420</b>	2011 QL <sub>22</sub>	11	3.7	68°90	7°5/ 9.6	18
9 28	3 0.77	+28 58.7	2.590	3.354	12.6	18.2	9 28	3 7.44	+36 6.6	1.747	2.494	18.4	20.4
10 8	2 55.78	+28 32.8	2.515	3.371	10.2	18.1	10 8	3 2.02	+36 43.5	1.685	2.515	15.5	20.3
10 18	2 49.06	+27 51.6	2.464	3.389	7.3	17.9	10 18	2 53.65	+36 56.6	1.642	2.536	12.4	20.1
10 28	2 41.24	+26 55.9	2.439	3.406	4.5	17.8	10 28	2 43.24	+36 42.2	1.621	2.558	9.4	20.0
11 7	2 33.09	+25 48.5	2.443	3.423	3.0	17.7	11 7	2 32.18	+36 0.7	1.626	2.579	7.6	20.0
11 17	2 25.43	+24 33.8	2.478	3.439	4.5	17.8	11 17	2 21.92	+34 56.8	1.656	2.600	8.2	20.0
11 27	2 18.97	+23 17.5	2.542	3.455	7.2	18.0	11 27	2 13.74	+33 39.1	1.714	2.621	10.5	20.2
12 7	2 14.24	+22 5.4	2.634	3.471	9.9	18.2	12 7	2 8.41	+32 17.9	1.795	2.642	13.3	20.5
<b>407756</b>	2011 WM <sub>48</sub>	11	3.6	189°47	5°7/28.5	18	<b>36023</b>	1999 NS <sub>49</sub>	11	3.7	342°12	9°9/27.0	18
9 28	2 59.03	- 5 21.6	3.014	3.829	9.8	22.0	9 28	2 55.95	- 5 32.9	1.551	2.406	15.5	16.9
10 8	2 54.15	- 6 17.7	2.945	3.828	8.0	21.8	10 8	2 53.10	- 7 9.5	1.488	2.393	12.9	16.7
10 18	2 47.91	- 7 9.1	2.901	3.826	6.4	21.7	10 18	2 47.86	- 8 39.3	1.447	2.382	10.7	16.6
10 28	2 40.78	- 7 51.3	2.886	3.823	5.7	21.7	10 28	2 40.92	- 9 52.1	1.430	2.371	9.9	16.5
11 7	2 33.31	- 8 20.7	2.899	3.820	6.3	21.7	11 7	2 33.31	-10 39.1	1.437	2.362	11.1	16.5
11 17	2 26.12	- 8 34.7	2.940	3.817	7.8	21.8	11 17	2 26.15	-10 54.9	1.466	2.353	13.5	16.7
11 27	2 19.78	- 8 32.2	3.008	3.813	9.7	21.9	11 27	2 20.49	-10 38.1	1.517	2.346	16.3	16.8
12 7	2 14.75	- 8 13.8	3.099	3.809	11.4	22.1	12 7	2 17.07	- 9 51.6	1.586	2.339	19.0	17.0
<b>349172</b>	2007 RX <sub>22</sub>	11	3.6	297°69	5°3/30.5	18	<b>292577</b>	2006 TG <sub>87</sub>	11	3.7	69°43	1°0/ 4.3	18
9 28	2 59.03	+ 5 53.1	1.695	2.543	14.7	20.4	9 28	3 4.01	+18 44.1	1.845	2.660	15.1	21.0
10 8	2 55.23	+ 4 28.9	1.622	2.536	11.4	20.2	10 8	2 58.82	+18 46.1	1.781	2.676	11.7	20.8
10 18	2 49.12	+ 3 0.0	1.571	2.530	7.9	20.0	10 18	2 51.32	+18 37.5	1.739	2.692	7.7	20.6
10 28	2 41.38	+ 1 34.1	1.547	2.523	5.4	19.8	10 28	2 42.26	+18 19.5	1.724	2.709	3.4	20.4
11 7	2 33.01	+ 0 19.3	1.550	2.516	6.4	19.8	11 7	2 32.69	+17 54.8	1.736	2.725	1.5	20.3
11 17	2 25.07	- 0 37.2	1.579	2.510	9.7	20.0	11 17	2 23.70	+17 27.6	1.777	2.742	5.6	20.6
11 27	2 18.60	- 1 10.7	1.634	2.503	13.2	20.2	11 27	2 16.31	+17 2.9	1.845	2.758	9.5	20.9
12 7	2 14.30	- 1 20.0	1.709	2.497	16.5	20.4	12 7	2 11.17	+16 44.9	1.938	2.775	12.9	21.1
<b>378030</b>	2006 SG <sub>352</sub>	11	3.6	9°16	3°9/ 5.8	18	<b>275874</b>	2001 SB <sub>259</sub>	11	3.7	61°91	3°0/ 5.5	18
9 28	2 58.52	+24 25.5	1.026	1.876	22.0	20.6	9 28	3 9.29	+23 54.7	1.357	2.170	19.6	21.1
10 8	2 56.42	+24 37.8	0.968	1.878	17.6	20.3	10 8	3 3.36	+23 58.1	1.314	2.204	15.4	21.0
10 18	2 50.64	+24 26.2	0.926	1.880	12.4	20.0	10 18	2 54.37	+23 42.4	1.291	2.237	10.5	20.8
10 28	2 42.16	+23 50.0	0.903	1.884	6.9	19.8	10 28	2 43.45	+23 8.2	1.291	2.270	5.6	20.6
11 7	2 32.63	+22 53.4	0.903	1.890	4.0	19.6	11 7	2 32.15	+22 19.7	1.317	2.304	3.1	20.5
11 17	2 23.92	+21 45.2	0.926	1.897	8.1	19.9	11 17	2 21.98	+21 24.1	1.371	2.337	6.7	20.8
11 27	2 17.73	+20 37.5	0.971	1.905	13.4	20.2	11 27	2 14.16	+20 30.2	1.450	2.369	11.1	21.2
12 7	2 15.00	+19 40.8	1.036	1.915	18.2	20.5	12 7	2 9.36	+19 45.0	1.552	2.402	14.8	21.5
<b>273934</b>	2007 JA <sub>13</sub>	11	3.6	57°34	3°8/31.9	18	<b>421993</b>	2014 QN <sub>308</sub>	11	3.7	82°98	5°0/ 7.5	18
9 28	3 3.58	+11 27.6	1.406	2.252	17.3	20.0	9 28	3 7.02	+30 16.5	2.349	3.102	14.1	21.4
10 8	2 58.54	+ 9 52.1	1.371	2.287	13.0	19.8	10 8	3 0.99	+31 6.0	2.275	3.117	11.6	21.3
10 18	2 51.01	+ 8 9.8	1.359	2.322	8.3	19.7	10 18	2 52.72	+31 41.3	2.223	3.132	8.9	21.1
10 28	2 42.01	+ 6 29.2	1.372	2.357	4.3	19.5	10 28	2 42.86	+31 59.9	2.197	3.147	6.3	21.0
11 7	2 32.80	+ 4 59.7	1.413	2.391	4.9	19.7	11 7	2 32.36	+32 1.2	2.199	3.163	5.0	20.9
11 17	2 24.59	+ 3 48.9	1.481	2.426	8.8	20.0	11 17	2 22.29	+31 47.3	2.230	3.178	6.1	21.0
11 27	2 18.34	+ 3 1.5	1.573	2.460	12.6	20.3	11 27	2 13.63	+31 22.5	2.289	3.193	8.4	21.2
12 7	2 14.57	+ 2 38.0	1.688	2.494	15.8	20.6	12 7	2 7.10	+30 52.8	2.375	3.207	10.9	21.4
<b>407573</b>	2011 AE <sub>8</sub>	11	3.7	19°87	4°6/ 7.5	18	<b>210492</b>	1997 ST <sub>9</sub>	11	3.7	253°27	0°3/ 3.4	18
9 28	3 0.41	+29 54.1	1.966	2.745	15.6	20.0	9 28	3 0.78	+16 45.9	1.984	2.805	14.0	20.8
10 8	2 56.30	+30 4.3	1.887	2.748	12.8	19.8	10 8	2 56.38	+16 17.8	1.899	2.800	10.8	20.6
10 18	2 49.82	+29 56.3	1.829	2.752	9.6	19.6	10 18	2 49.81	+15 39.4	1.837	2.794	7.0	20.4
10 28	2 41.67	+29 29.0	1.794	2.756	6.4	19.5	10 28	2 41.69	+14 53.0	1.801	2.788	2.8	20.1
11 7	2 32.88	+28 43.9	1.786	2.761	4.6	19.4	11 7	2 32.94	+14 2.8	1.793	2.782	1.6	20.0
11 17	2 24.56	+27 45.2	1.806	2.766	6.1	19.5	11 17	2 24.57	+13 13.9	1.814	2.776	5.9	20.3
11 27	2 17.76	+26 40.0	1.854	2.771	9.2	19.7	11 27	2 17.53	+12 31.8	1.863	2.770	9.8	20.5
12 7	2 13.21	+25 35.7	1.925	2.777	12.3	19.9	12 7	2 12.53	+12 0.8	1.936	2.764	13.3	20.7
<b>156673</b>	2002 JO <sub>115</sub>	11	3.7	132°49	1°0/ 2.7	18	<b>303204</b>	2004 GV <sub>77</sub>	11	3.7	246°14	8°6/28.9	18
9 28	2 58.82	+15 1.2	2.453	3.270	11.7	20.1	9 28						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>190704</b>	2001 <i>FY</i> <sub>125</sub>	11	3.7 286°54	3°0/ 5.6 17			<b>23218</b>	Puttachi	11	3.7 145°22	0°3/ 3.9 18		
9 28	3 4.86	+23 24.8	2.278	3.064	13.5	19.7	9 28	3 0.76	+18 11.3	2.252	3.063	12.9	19.4
10 8	2 59.47	+24 3.7	2.184	3.057	10.8	19.5	10 8	2 56.06	+17 53.3	2.173	3.067	9.9	19.2
10 18	2 51.84	+24 32.6	2.113	3.049	7.7	19.3	10 18	2 49.44	+17 25.6	2.116	3.070	6.5	19.0
10 28	2 42.56	+24 50.3	2.068	3.041	4.5	19.1	10 28	2 41.52	+16 50.2	2.087	3.073	2.7	18.7
11 7	2 32.49	+24 56.5	2.052	3.034	3.1	19.0	11 7	2 33.09	+16 10.1	2.086	3.076	1.2	18.6
11 17	2 22.64	+24 52.9	2.066	3.026	5.4	19.1	11 17	2 25.05	+15 29.4	2.116	3.079	5.0	18.9
11 27	2 14.03	+24 43.2	2.108	3.019	8.6	19.3	11 27	2 18.23	+14 52.7	2.173	3.081	8.6	19.1
12 7	2 7.43	+24 32.1	2.176	3.011	11.7	19.5	12 7	2 13.23	+14 23.9	2.256	3.084	11.6	19.3
<b>324247</b>	2006 <i>BW</i> <sub>169</sub>	11	3.7 149°26	3°8/30.7 18			<b>483414</b>	1999 <i>VQ</i> <sub>91</sub>	11	3.7 340°32	13°1/ 2.5 17		
9 28	2 57.81	+4 26.4	2.619	3.449	10.7	21.5	9 28	3 23.48	+24 42.5	1.123	1.926	23.5	19.4
10 8	2 53.42	+3 26.8	2.550	3.454	8.2	21.3	10 8	3 18.22	+28 50.2	1.027	1.898	20.2	19.1
10 18	2 47.54	+2 26.4	2.506	3.459	5.7	21.1	10 18	3 7.23	+33 12.9	0.952	1.872	16.5	18.7
10 28	2 40.68	+1 29.5	2.491	3.463	3.9	21.0	10 28	2 50.18	+37 31.4	0.902	1.847	13.7	18.5
11 7	2 33.48	+0 40.6	2.504	3.468	4.5	21.1	11 7	2 28.14	+41 18.8	0.880	1.825	13.5	18.4
11 17	2 26.60	+0 3.3	2.547	3.472	6.8	21.2	11 17	2 4.02	+44 12.0	0.884	1.805	16.4	18.5
11 27	2 20.70	+0 19.7	2.618	3.475	9.3	21.4	11 27	1 42.01	+46 5.5	0.911	1.787	20.5	18.7
12 7	2 16.24	+0 27.6	2.712	3.479	11.6	21.6	12 7	1 25.63	+47 12.9	0.958	1.773	24.5	18.9
<b>14287</b>	2777 <i>P-L</i>	11	3.7 126°23	1°5/ 2.6 18			<b>332453</b>	2008 <i>CX</i> <sub>14</sub>	11	3.7 310°24	6°7/30.9 18		
9 28	3 4.83	+13 49.4	1.816	2.641	14.9	18.6	9 28	3 2.32	+3 28.1	1.329	2.187	17.5	20.4
10 8	2 59.39	+13 11.2	1.751	2.655	11.4	18.4	10 8	2 58.41	+2 24.1	1.261	2.179	13.7	20.2
10 18	2 51.66	+12 24.5	1.708	2.667	7.3	18.2	10 18	2 51.54	+1 18.7	1.213	2.171	9.7	19.9
10 28	2 42.40	+11 33.2	1.692	2.680	3.0	18.0	10 28	2 42.51	+0 20.6	1.189	2.164	6.9	19.8
11 7	2 32.65	+10 42.3	1.705	2.692	2.5	18.0	11 7	2 32.60	+0 21.4	1.189	2.156	7.8	19.8
11 17	2 23.50	+9 57.3	1.746	2.703	6.6	18.3	11 17	2 23.24	+0 40.6	1.214	2.149	11.4	20.0
11 27	2 15.95	+9 23.2	1.815	2.713	10.6	18.5	11 27	2 15.78	+0 33.6	1.262	2.142	15.6	20.2
12 7	2 10.64	+9 3.2	1.908	2.724	13.9	18.8	12 7	2 11.09	+0 1.2	1.329	2.136	19.3	20.4
<b>166298</b>	2002 <i>JL</i> <sub>6</sub>	11	3.7 94°07	0°1/ 3.5 18			<b>115257</b>	2003 <i>SO</i> <sub>163</sub>	11	3.7 309°15	3°0/31.9 17		
9 28	3 3.74	+17 11.8	1.851	2.670	14.9	21.1	9 28	2 56.80	+9 59.0	2.060	2.899	12.9	19.5
10 8	2 58.52	+16 43.7	1.790	2.689	11.4	20.9	10 8	2 53.31	+8 59.2	1.967	2.879	9.8	19.3
10 18	2 51.06	+16 5.1	1.750	2.707	7.4	20.7	10 18	2 47.84	+7 52.4	1.898	2.860	6.5	19.1
10 28	2 42.14	+15 18.6	1.737	2.725	3.0	20.5	10 28	2 40.93	+6 43.2	1.856	2.840	3.5	18.8
11 7	2 32.79	+14 28.9	1.753	2.742	1.6	20.4	11 7	2 33.39	+5 37.5	1.843	2.821	4.0	18.8
11 17	2 24.06	+13 41.3	1.797	2.759	5.9	20.7	11 17	2 26.10	+4 41.2	1.857	2.802	7.3	19.0
11 27	2 16.90	+13 1.1	1.869	2.776	9.8	21.0	11 27	2 19.95	+3 59.5	1.898	2.784	10.9	19.2
12 7	2 11.94	+12 32.3	1.966	2.793	13.1	21.3	12 7	2 15.63	+3 35.2	1.962	2.765	14.1	19.4
<b>6228</b>	Yonezawa	11	3.7 283°48	8°0/28.1 18			<b>243208</b>	2007 <i>UN</i> <sub>27</sub>	11	3.7 0°54	2°3/ 2.1 18		
9 28	2 59.62	+3 17.2	1.843	2.685	14.1	17.2	9 28	3 0.24	+12 29.7	1.610	2.453	15.7	20.4
10 8	2 55.55	+4 43.3	1.772	2.673	11.4	17.0	10 8	2 56.32	+11 46.4	1.539	2.452	12.0	20.2
10 18	2 49.30	+6 5.6	1.724	2.661	9.1	16.8	10 18	2 49.92	+10 54.4	1.489	2.452	7.7	20.0
10 28	2 41.50	+7 15.9	1.701	2.649	8.0	16.7	10 28	2 41.78	+9 58.3	1.465	2.452	3.4	19.7
11 7	2 33.07	+8 6.6	1.704	2.637	9.0	16.8	11 7	2 32.99	+9 4.3	1.467	2.452	3.3	19.7
11 17	2 25.02	+8 32.5	1.733	2.625	11.4	16.9	11 17	2 24.70	+8 18.7	1.497	2.453	7.6	20.0
11 27	2 18.31	+8 31.5	1.785	2.614	14.2	17.1	11 27	2 18.02	+7 47.1	1.552	2.454	11.8	20.2
12 7	2 13.65	+8 5.0	1.857	2.602	16.9	17.2	12 7	2 13.69	+7 32.5	1.629	2.455	15.4	20.5
<b>371332</b>	2006 <i>JW</i> <sub>28</sub>	11	3.7 85°46	2°3/ 2.6 16			<b>209730</b>	2005 <i>EA</i> <sub>166</sub>	11	3.7 48°30	0°3/ 3.9 18		
9 28	3 8.87	+11 7.7	1.342	2.183	18.3	21.3	9 28	3 2.65	+17 22.9	1.659	2.487	16.0	20.5
10 8	3 3.12	+10 53.7	1.288	2.199	14.0	21.1	10 8	2 58.10	+17 14.2	1.592	2.495	12.3	20.3
10 18	2 54.35	+10 33.6	1.254	2.216	9.0	20.8	10 18	2 51.03	+16 54.5	1.546	2.504	8.0	20.1
10 28	2 43.53	+10 11.2	1.245	2.232	3.9	20.6	10 28	2 42.22	+16 25.9	1.526	2.513	3.4	19.8
11 7	2 32.11	+9 51.6	1.263	2.249	3.4	20.6	11 7	2 32.80	+15 52.1	1.532	2.522	1.5	19.7
11 17	2 21.58	+9 39.6	1.307	2.265	8.1	20.9	11 17	2 23.95	+15 18.2	1.566	2.531	6.2	20.1
11 27	2 13.23	+9 39.4	1.376	2.281	12.8	21.2	11 27	2 16.77	+14 49.7	1.627	2.540	10.5	20.3
12 7	2 7.84	+9 53.0	1.467	2.296	16.7	21.5	12 7	2 12.00	+14 31.0	1.710	2.550	14.2	20.6
<b>26300</b>	Herbweiss	11	3.7 344°42	1°2/ 2.8 18			<b>288040</b>	2003 <i>UW</i> <sub>262</sub>	11	3.7 159°04	4°2/ 6.4 18		
9 28	3 0.21	+14 27.1	1.637	2.476	15.6	18.6	9 28	3 9.37	+26 39.0	2.146	2.915	14.7	21.1
10 8	2 56.32	+13 57.2	1.561	2.472	12.0	18.4	10 8	3 3.02	+27 22.5	2.062	2.920	12.0	20.9
10 18	2 49.95	+13 17.4	1.507	2.469	7.7	18.1	10 18	2 54.19	+27 53.1	2.000	2.925	8.8	20.7
10 28	2 41.80	+12 31.3	1.478	2.466	3.1	17.8	10 28	2 43.54	+28 8.3	1.965	2.929	5.7	20.6
11 7	2 32.94	+11 44.0	1.476	2.464	2.4	17.8	11 7	2 32.11	+28 7.8	1.958	2.933	4.2	20.5
11 17	2 24.54	+11 1.5	1.501	2.461	7.0	18.1	11 17	2 21.05	+27 53.5	1.981	2.937	6.0	20.6
11 27	2 17.73	+10 29.6	1.552	2.460	11.3	18.3	11 27	2 11.50	+27 30.2	2.032	2.940	9.1	20.8
12 7	2 13.27	+10 12.0	1.625	2.458	15.1	18.5	12 7	2 4.27	+27 4.1	2.109	2.942	12.1	21.0
<b>325627</b>	2009 <i>SO</i> <sub>270</sub>	11	3.7 188°08	1°9/ 4.9 18			<b>452015</b>	2014 <i>OO</i> <sub>114</sub>	11	3.7 76°80	0°0/ 3.6 18		
9 28	3 3.64	+20 43.9	2.250	3.048	13.3	21.2	9 28	3 0.43	+17 27.4	2.068	2.886	13.6	21.9
10 8	2 58.40	+21 5.7	2.165	3.048	10.4	21.0	10 8	2 55.98	+17 5.8	1.990	2.888	10.5	21.7
10 18	2 51.05	+21 18.3	2.103	3.048	7.1	20.8	10 18	2 49.48	+16 34.3	1.935	2.891	6.8	21.4
10 28	2 42.21	+21 21.3	2.068	3.048	3.7	20.5	10 28	2 41.57	+15 55.0	1.906	2.893	2.8	21.2
11 7	2 32.73	+21 15.8	2.061	3.048	2.1	20.4	11 7	2 33.12	+15 11.6	1.906	2.896	1.4	21.1
11 17	2 23.56	+21 4.2	2.084	3.048	5.0	20.6	11 17	2 25.08	+14 28.7	1.935	2.898	5.4	21.4
11 27	2 15.65	+20 50.5	2.136	3.048	8.5	20.9	11 27	2 18.35	+13 51.2	1.992	2.901	9.2	21.6
12 7	2 9.70	+20 38.6	2.213	3.048	11.6	21.1	12 7	2 13.57	+13 23.1	2.073	2.903	12.4	21.8
<b>304146</b>	2006 <i>KH</i> <sub>102</sub>	11	3.7 94°97	0°1/ 3.5 18			<b>221876</b>	2008 <i>HG</i> <sub>12</sub>	11	3.7 165°59	2°8/ 1.8 18		
9 28	3 0.26	+20 43.7	1.798	2.617									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>186654</b>	2003 WZ <sub>65</sub>		11 3.7 319°59	1.4/ 2.9	18		<b>388619</b>	2007 TT <sub>20</sub>		11 3.7 124°64	3.6/ 6.1	18	
9 28	2 58.84	+15 1.1	1.168	2.029	19.1	20.6	9 28	3 8.49	+25 27.2	2.101	2.878	14.8	21.3
10 8	2 56.50	+14 32.1	1.084	2.007	14.9	20.3	10 8	3 2.25	+25 59.9	2.026	2.891	11.9	21.2
10 18	2 50.80	+13 48.4	1.018	1.985	9.8	20.0	10 18	2 53.63	+26 19.4	1.973	2.904	8.5	21.0
10 28	2 42.42	+12 53.4	0.975	1.964	4.0	19.6	10 28	2 43.32	+26 24.1	1.946	2.916	5.2	20.8
11 7	2 32.69	+11 54.3	0.955	1.944	3.0	19.5	11 7	2 32.37	+26 14.7	1.948	2.928	3.6	20.7
11 17	2 23.28	+11 0.1	0.959	1.924	9.1	19.7	11 17	2 21.90	+25 53.7	1.979	2.939	5.7	20.9
11 27	2 15.91	+10 20.0	0.986	1.906	14.9	20.0	11 27	2 12.97	+25 26.3	2.039	2.950	8.9	21.1
12 7	2 11.73	+10 0.4	1.032	1.889	20.0	20.2	12 7	2 6.33	+24 58.2	2.125	2.960	12.0	21.3
<b>71516</b>	2000 CT <sub>56</sub>		11 3.7 346°12	1.8/ 2.1	18		<b>517567</b>	2014 TX <sub>81</sub>		11 3.7 65°56	1.2/ 4.6	18	
9 28	2 58.92	+11 28.5	2.257	3.085	12.3	19.4	9 28	3 3.57	+18 55.8	2.198	3.003	13.3	20.8
10 8	2 54.64	+10 56.6	2.179	3.085	9.3	19.3	10 8	2 58.19	+19 9.3	2.132	3.021	10.3	20.6
10 18	2 48.54	+10 19.5	2.124	3.084	6.0	19.1	10 18	2 50.83	+19 14.1	2.090	3.039	6.9	20.4
10 28	2 41.20	+9 40.3	2.097	3.084	2.7	18.8	10 28	2 42.14	+19 10.7	2.074	3.057	3.2	20.2
11 7	2 33.38	+9 3.0	2.099	3.083	2.6	18.8	11 7	2 33.00	+19 0.7	2.087	3.076	1.5	20.1
11 17	2 25.90	+8 31.4	2.130	3.083	5.9	19.1	11 17	2 24.34	+18 47.2	2.130	3.094	4.9	20.4
11 27	2 19.56	+8 9.3	2.188	3.082	9.2	19.3	11 27	2 17.01	+18 33.9	2.202	3.113	8.3	20.7
12 7	2 14.94	+7 59.0	2.271	3.082	12.1	19.5	12 7	2 11.62	+18 24.4	2.298	3.131	11.3	20.9
<b>76403</b>	2000 FC <sub>13</sub>		11 3.7 221°19	3.5/ 1.3	18		<b>216139</b>	2006 SL <sub>119</sub>		11 3.7 66°86	1.8/ 2.8	15	
9 28	3 4.12	+5 25.3	2.247	3.071	12.5	20.4	9 28	3 8.23	+12 50.3	1.275	2.119	19.0	20.4
10 8	2 58.63	+5 3.7	2.162	3.063	9.6	20.2	10 8	3 2.63	+12 28.5	1.231	2.144	14.4	20.2
10 18	2 51.16	+4 41.5	2.101	3.055	6.5	20.0	10 18	2 54.01	+11 58.4	1.207	2.169	9.2	20.0
10 28	2 42.29	+4 22.3	2.068	3.047	3.8	19.9	10 28	2 43.44	+11 24.2	1.206	2.194	3.8	19.8
11 7	2 32.83	+4 9.6	2.064	3.038	4.1	19.9	11 7	2 32.41	+10 51.8	1.232	2.219	3.0	19.8
11 17	2 23.68	+4 6.6	2.089	3.029	7.0	20.0	11 17	2 22.42	+10 26.9	1.284	2.244	8.0	20.2
11 27	2 15.72	+4 15.6	2.143	3.020	10.2	20.2	11 27	2 14.70	+10 14.3	1.361	2.269	12.6	20.5
12 7	2 9.59	+4 37.3	2.220	3.010	13.1	20.4	12 7	2 9.95	+10 16.7	1.459	2.294	16.5	20.8
<b>437944</b>	2002 RL <sub>176</sub>		11 3.7 19°48	4.8/31.2	15		<b>406770</b>	2008 OJ		11 3.7 68°87	12.1/19.6	17	
9 28	2 56.30	+9 42.1	1.315	2.180	17.2	20.5	9 28	3 14.98	+56 32.3	2.412	2.979	17.7	20.4
10 8	2 53.59	+8 6.8	1.263	2.188	13.0	20.3	10 8	3 8.47	+57 46.6	2.350	3.001	16.4	20.3
10 18	2 48.24	+6 23.1	1.231	2.197	8.6	20.0	10 18	2 58.26	+58 34.8	2.302	3.023	15.0	20.2
10 28	2 41.12	+4 40.7	1.224	2.207	5.1	19.9	10 28	2 45.35	+58 50.3	2.271	3.045	13.6	20.2
11 7	2 33.45	+3 10.1	1.243	2.218	6.1	20.0	11 7	2 31.41	+58 29.9	2.261	3.066	12.6	20.2
11 17	2 26.48	+2 0.0	1.286	2.230	10.0	20.2	11 17	2 18.34	+57 34.6	2.271	3.088	12.1	20.2
11 27	2 21.29	+1 16.3	1.353	2.243	14.0	20.5	11 27	2 7.84	+56 10.8	2.305	3.110	12.2	20.2
12 7	2 18.58	+0 59.8	1.440	2.257	17.6	20.8	12 7	2 0.88	+54 28.1	2.361	3.131	13.0	20.3
<b>436514</b>	2011 FP <sub>45</sub>		11 3.7 166°33	1.6/ 2.6	18		<b>182280</b>	2001 KA <sub>23</sub>		11 3.7 78°50	0.8/ 3.2	18	
9 28	3 4.77	+12 45.2	1.965	2.787	14.1	22.3	9 28	3 9.02	+14 19.3	1.484	2.313	17.5	20.0
10 8	2 59.33	+12 16.3	1.889	2.791	10.7	22.1	10 8	3 2.92	+14 9.2	1.434	2.339	13.3	19.8
10 18	2 51.68	+11 40.5	1.837	2.795	6.9	21.9	10 18	2 54.08	+13 50.4	1.406	2.365	8.5	19.6
10 28	2 42.50	+11 0.8	1.811	2.798	2.9	21.6	10 28	2 43.47	+13 25.7	1.403	2.391	3.4	19.4
11 7	2 32.76	+10 21.7	1.815	2.801	2.5	21.6	11 7	2 32.42	+12 59.5	1.428	2.416	2.1	19.3
11 17	2 23.48	+9 47.8	1.848	2.803	6.4	21.9	11 17	2 22.27	+12 36.8	1.480	2.441	7.0	19.7
11 27	2 15.64	+9 23.4	1.908	2.805	10.2	22.1	11 27	2 14.18	+12 22.4	1.559	2.466	11.3	20.0
12 7	2 9.92	+9 11.5	1.993	2.806	13.5	22.3	12 7	2 8.81	+12 19.4	1.660	2.490	15.0	20.3
<b>75301</b>	1999 XN <sub>34</sub>		11 3.7 253°44	6.2/10.4	18		<b>347718</b>	2001 XO <sub>102</sub>		11 3.7 278°78	19.1/27.2	17	
9 28	3 3.64	+39 53.4	2.992	3.680	12.6	19.5	9 28	3 15.36	-23 45.9	1.184	1.982	22.8	20.2
10 8	2 58.37	+40 10.6	2.875	3.660	11.0	19.3	10 8	3 8.94	-25 7.7	1.134	1.971	21.0	20.1
10 18	2 51.08	+40 10.8	2.779	3.638	9.1	19.1	10 18	2 58.61	-25 58.2	1.099	1.961	19.6	20.0
10 28	2 42.30	+39 51.4	2.707	3.616	7.3	19.0	10 28	2 45.50	-26 2.0	1.083	1.951	19.1	19.9
11 7	2 32.82	+39 11.6	2.662	3.594	6.2	18.9	11 7	2 31.40	-25 9.7	1.085	1.941	19.8	19.9
11 17	2 23.55	+38 13.2	2.645	3.571	6.5	18.9	11 17	2 18.31	-23 20.4	1.106	1.930	21.5	20.0
11 27	2 15.42	+37 0.6	2.657	3.548	7.9	18.9	11 27	2 7.95	-20 42.1	1.145	1.920	23.8	20.1
12 7	2 9.10	+35 40.2	2.697	3.524	10.0	19.0	12 7	2 1.27	-17 28.1	1.200	1.910	26.1	20.3
<b>492037</b>	2013 GT <sub>87</sub>		11 3.7 228°66	3.0/ 1.6	18		<b>440758</b>	2006 EV <sub>10</sub>		11 3.7 136°22	0.2/ 3.5	18	
9 28	3 3.92	+6 8.6	2.263	3.086	12.4	21.1	9 28	3 4.33	+16 11.2	1.931	2.748	14.4	21.8
10 8	2 58.47	+5 57.2	2.179	3.080	9.5	20.9	10 8	2 59.07	+15 55.6	1.858	2.756	11.1	21.6
10 18	2 51.05	+5 45.4	2.119	3.074	6.4	20.7	10 18	2 51.56	+15 31.0	1.807	2.763	7.2	21.4
10 28	2 42.25	+5 36.0	2.087	3.068	3.5	20.5	10 28	2 42.50	+14 59.4	1.783	2.770	2.9	21.2
11 7	2 32.88	+5 32.3	2.084	3.061	3.7	20.5	11 7	2 32.87	+14 24.3	1.788	2.777	1.5	21.1
11 17	2 23.82	+5 36.8	2.111	3.055	6.6	20.6	11 17	2 23.74	+13 50.4	1.821	2.783	5.8	21.4
11 27	2 15.94	+5 51.6	2.166	3.048	9.9	20.8	11 27	2 16.09	+13 22.4	1.883	2.789	9.8	21.6
12 7	2 9.88	+6 17.6	2.245	3.041	12.8	21.0	12 7	2 10.60	+13 4.0	1.968	2.795	13.1	21.9
<b>444944</b>	2008 CY <sub>60</sub>		11 3.7 245°96	1.7/ 2.4	18		<b>428652</b>	2008 GW <sub>46</sub>		11 3.7 123°72	3.7/ 1.1	16	
9 28	3 1.04	+12 7.4	2.148	2.974	12.9	22.2	9 28	3 4.42	+8 38.4	1.728	2.564	15.1	22.3
10 8	2 56.43	+11 38.5	2.061	2.966	9.9	22.0	10 8	2 59.18	+7 39.8	1.668	2.576	11.5	22.1
10 18	2 49.81	+11 3.4	1.998	2.957	6.4	21.7	10 18	2 51.61	+6 36.6	1.630	2.589	7.6	21.9
10 28	2 41.77	+10 25.0	1.961	2.948	2.8	21.5	10 28	2 42.50	+5 34.4	1.618	2.600	4.2	21.7
11 7	2 33.12	+9 47.5	1.954	2.939	2.5	21.5	11 7	2 32.91	+4 39.7	1.635	2.612	4.6	21.8
11 17	2 24.78	+9 15.1	1.975	2.930	6.1	21.7	11 17	2 23.95	+3 58.2	1.679	2.622	8.1	22.0
11 27	2 17.65	+8 51.9	2.025	2.921	9.8	21.9	11 27	2 16.60	+3 33.9	1.750	2.633	11.8	22.2
12 7	2 12.37	+8 40.6	2.098	2.911	12.9	22.1	12 7	2 11.52	+3 28.2	1.843	2.642	15.0	22.5
<b>487178</b>	2014 OV <sub>308</sub>		11 3.7 189°34	1.3/ 2.6	18		<b>4249</b>	Křemže		11 3.7 288°69	2.4/ 5.6	18	
9 28	3 0.95	+12 57.5	2.179	3.002	12.8	21.9	9 28	3 0.97	+23 38.9	2.132			



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>364879</b>	2008 <i>EP</i> <sub>25</sub>		11 3.7 276°34	3°3/	1.3 18		<b>305308</b>	2008 <i>AK</i> <sub>38</sub>		11 3.7 3°08	2°4/	2.1 18	
9 28	3 1.38	+ 7 27.7	2.042	2.875	13.2	20.9	9 28	2 59.22	+12 15.4	1.614	2.459	15.5	20.4
10 8	2 56.84	+ 6 55.7	1.953	2.860	10.2	20.7	10 8	2 55.58	+11 30.9	1.544	2.459	11.8	20.2
10 18	2 50.19	+ 6 20.6	1.887	2.845	6.8	20.5	10 18	2 49.51	+10 37.9	1.496	2.459	7.6	20.0
10 28	2 42.00	+ 5 46.5	1.848	2.830	3.8	20.2	10 28	2 41.75	+ 9 41.2	1.472	2.459	3.4	19.7
11 7	2 33.12	+ 5 17.9	1.837	2.815	4.1	20.2	11 7	2 33.34	+ 8 47.1	1.476	2.460	3.4	19.7
11 17	2 24.52	+ 4 59.0	1.855	2.800	7.3	20.4	11 17	2 25.43	+ 8 1.8	1.506	2.462	7.5	20.0
11 27	2 17.15	+ 4 53.3	1.900	2.785	10.9	20.6	11 27	2 19.09	+ 7 30.7	1.562	2.464	11.7	20.2
12 7	2 11.71	+ 5 2.2	1.968	2.769	14.1	20.8	12 7	2 15.04	+ 7 16.8	1.640	2.466	15.3	20.5
<b>290317</b>	2005 <i>SJ</i> <sub>198</sub>		11 3.7 1°02	0°1/	3.6 18		<b>145798</b>	1998 <i>RA</i> <sub>30</sub>		11 3.7 72°39	0°9/	4.2 18	
9 28	3 0.07	+17 2.9	1.839	2.666	14.7	21.1	9 28	3 7.27	+18 39.8	1.414	2.241	18.3	19.8
10 8	2 56.01	+16 40.7	1.762	2.665	11.3	20.9	10 8	3 1.94	+18 36.5	1.359	2.261	14.1	19.6
10 18	2 49.69	+16 7.8	1.707	2.665	7.4	20.6	10 18	2 53.66	+18 19.8	1.324	2.280	9.3	19.4
10 28	2 41.78	+15 26.6	1.678	2.665	3.0	20.4	10 28	2 43.41	+17 51.4	1.314	2.300	4.0	19.2
11 7	2 33.25	+14 41.4	1.676	2.665	1.5	20.3	11 7	2 32.58	+17 15.4	1.330	2.319	1.7	19.1
11 17	2 25.15	+13 57.3	1.702	2.666	6.0	20.6	11 17	2 22.60	+16 37.7	1.373	2.338	6.8	19.4
11 27	2 18.49	+13 19.8	1.756	2.667	10.0	20.8	11 27	2 14.72	+16 5.1	1.441	2.358	11.4	19.8
12 7	2 13.96	+12 53.3	1.833	2.668	13.6	21.0	12 7	2 9.70	+15 42.9	1.533	2.377	15.3	20.1
<b>352870</b>	2008 <i>XD</i> <sub>4</sub>		11 3.7 12°84	10°2/30.9	18		<b>399740</b>	2005 <i>EM</i> <sub>211</sub>		11 3.7 247°85	6°5/	8.1 18	
9 28	3 5.63	- 7 27.6	1.295	2.141	18.5	19.1	9 28	3 7.31	+32 48.2	2.004	2.756	16.2	21.6
10 8	3 0.80	- 7 59.6	1.244	2.145	15.2	18.9	10 8	3 2.03	+33 37.7	1.910	2.748	13.7	21.4
10 18	2 52.98	- 8 17.1	1.213	2.149	12.1	18.7	10 18	2 53.93	+34 10.2	1.836	2.739	10.8	21.2
10 28	2 43.14	- 8 11.5	1.204	2.154	10.3	18.6	10 28	2 43.67	+34 21.4	1.786	2.730	8.0	21.0
11 7	2 32.64	- 7 37.4	1.218	2.160	10.9	18.7	11 7	2 32.35	+34 9.7	1.762	2.720	6.6	20.9
11 17	2 22.95	- 6 33.9	1.256	2.168	13.3	18.8	11 17	2 21.30	+33 37.0	1.765	2.711	7.6	20.9
11 27	2 15.35	- 5 4.1	1.317	2.176	16.5	19.1	11 27	2 11.86	+32 49.1	1.796	2.701	10.2	21.1
12 7	2 10.59	- 3 14.1	1.397	2.185	19.5	19.3	12 7	2 4.98	+31 54.3	1.851	2.691	13.2	21.3
<b>114297</b>	2002 <i>XC</i> <sub>32</sub>		11 3.7 62°69	4°5/	6.6 18		<b>45144</b>	1999 <i>XA</i> <sub>104</sub>		11 3.7 254°35	3°1/	5.9 18	
9 28	3 5.93	+27 5.1	1.408	2.214	19.4	19.5	9 28	3 3.04	+25 10.1	1.879	2.675	15.6	19.1
10 8	3 1.23	+27 18.7	1.347	2.228	15.6	19.2	10 8	2 58.49	+25 12.5	1.793	2.671	12.5	18.8
10 18	2 53.38	+27 11.1	1.305	2.243	11.3	19.0	10 18	2 51.44	+24 59.1	1.727	2.666	8.9	18.6
10 28	2 43.33	+26 41.0	1.285	2.258	6.8	18.8	10 28	2 42.58	+24 29.3	1.686	2.662	5.1	18.4
11 7	2 32.54	+25 51.1	1.291	2.273	4.5	18.7	11 7	2 32.95	+23 45.3	1.673	2.657	3.1	18.3
11 17	2 22.57	+24 47.9	1.323	2.288	7.1	18.9	11 17	2 23.71	+22 51.6	1.688	2.653	5.9	18.4
11 27	2 14.80	+23 41.0	1.380	2.303	11.3	19.2	11 27	2 16.01	+21 55.0	1.730	2.648	9.7	18.6
12 7	2 10.05	+22 39.8	1.461	2.318	15.2	19.5	12 7	2 10.64	+21 2.5	1.797	2.643	13.3	18.9
<b>66888</b>	1999 <i>VE</i> <sub>78</sub>		11 3.7 143°25	4°4/	7.2 18		<b>83076</b>	2001 <i>QB</i> <sub>218</sub>		11 3.7 337°07	0°7/	4.2 18	
9 28	3 8.12	+29 19.8	2.295	3.051	14.3	19.1	9 28	3 1.60	+18 24.0	1.818	2.640	15.1	19.3
10 8	3 1.89	+29 46.0	2.216	3.063	11.7	19.0	10 8	2 57.31	+18 16.9	1.738	2.637	11.7	19.1
10 18	2 53.38	+29 57.3	2.158	3.074	8.7	18.8	10 18	2 50.63	+17 58.8	1.679	2.634	7.7	18.9
10 28	2 43.27	+29 51.7	2.126	3.085	5.9	18.6	10 28	2 42.24	+17 30.9	1.645	2.631	3.4	18.6
11 7	2 32.55	+29 29.8	2.123	3.095	4.4	18.6	11 7	2 33.13	+16 56.6	1.639	2.629	1.5	18.5
11 17	2 22.28	+28 54.4	2.150	3.104	5.7	18.7	11 17	2 24.44	+16 20.5	1.662	2.627	5.9	18.8
11 27	2 13.47	+28 10.8	2.205	3.112	8.5	18.9	11 27	2 17.22	+15 48.0	1.711	2.625	10.0	19.0
12 7	2 6.83	+27 25.5	2.286	3.120	11.3	19.1	12 7	2 12.25	+15 24.1	1.783	2.623	13.7	19.2
<b>333034</b>	2011 <i>SL</i> <sub>72</sub>		11 3.7 318°52	0°6/	3.2 18		<b>231804</b>	2000 <i>EJ</i> <sub>106</sub>		11 3.7 252°12	4°1/	6.8 17	
9 28	3 0.27	+16 25.0	1.705	2.538	15.4	21.5	9 28	3 6.67	+28 13.4	2.738	3.490	12.3	20.5
10 8	2 56.38	+15 50.9	1.625	2.532	11.9	21.3	10 8	3 0.74	+28 59.0	2.630	3.475	10.1	20.4
10 18	2 50.05	+15 5.0	1.566	2.526	7.7	21.0	10 18	2 52.72	+29 34.1	2.546	3.460	7.6	20.2
10 28	2 41.97	+14 10.3	1.533	2.521	3.1	20.7	10 28	2 43.11	+29 56.4	2.488	3.445	5.3	20.0
11 7	2 33.18	+13 12.1	1.526	2.515	1.9	20.7	11 7	2 32.68	+30 5.1	2.460	3.429	4.1	19.9
11 17	2 24.80	+12 16.7	1.548	2.510	6.6	20.9	11 17	2 22.34	+30 1.0	2.463	3.413	5.4	20.0
11 27	2 17.96	+11 30.6	1.596	2.505	11.0	21.2	11 27	2 13.03	+29 47.3	2.495	3.397	7.9	20.1
12 7	2 13.40	+10 58.5	1.667	2.501	14.7	21.4	12 7	2 5.52	+29 28.5	2.554	3.381	10.4	20.2
<b>427593</b>	2003 <i>SU</i> <sub>116</sub>		11 3.7 319°94	3°7/	1.5 17		<b>257356</b>	2009 <i>KD</i> <sub>23</sub>		11 3.7 80°21	4°6/	31.4 18	
9 28	3 1.13	+10 54.9	1.265	2.123	18.2	20.7	9 28	3 2.80	+ 3 19.0	2.014	2.847	13.4	20.7
10 8	2 57.75	+ 9 56.9	1.194	2.115	14.0	20.4	10 8	2 57.55	+ 2 35.1	1.964	2.869	10.3	20.5
10 18	2 51.29	+ 8 48.5	1.143	2.108	9.1	20.1	10 18	2 50.38	+ 1 52.4	1.938	2.890	7.1	20.4
10 28	2 42.57	+ 7 36.5	1.115	2.101	4.6	19.8	10 28	2 42.01	+ 1 16.0	1.938	2.911	4.8	20.3
11 7	2 32.90	+ 6 29.9	1.112	2.094	5.0	19.9	11 7	2 33.31	+ 0 50.3	1.966	2.932	5.3	20.3
11 17	2 23.78	+ 5 37.5	1.134	2.087	9.7	20.1	11 17	2 25.19	+ 0 38.6	2.023	2.953	7.9	20.5
11 27	2 16.63	+ 5 6.2	1.179	2.081	14.6	20.4	11 27	2 18.45	+ 0 42.6	2.106	2.973	10.8	20.8
12 7	2 12.38	+ 4 58.9	1.244	2.076	18.9	20.6	12 7	2 13.63	+ 1 2.2	2.212	2.993	13.4	21.0
<b>67120</b>	2000 <i>AY</i> <sub>122</sub>		11 3.7 356°84	2°9/	1.5 18		<b>522033</b>	2015 <i>XN</i> <sub>408</sub>		11 3.7 77°23	4°7/	31.3 18	
9 28	2 57.44	+10 12.9	1.773	2.618	14.3	18.8	9 28	3 1.63	+ 1 30.3	2.232	3.061	12.3	21.3
10 8	2 54.01	+ 9 27.0	1.701	2.616	10.9	18.6	10 8	2 56.62	+ 1 0.6	2.168	3.069	9.6	21.1
10 18	2 48.39	+ 8 35.1	1.651	2.613	7.1	18.4	10 18	2 49.81	+ 0 33.3	2.127	3.077	6.8	21.0
10 28	2 41.26	+ 7 41.9	1.627	2.612	3.6	18.2	10 28	2 41.80	+ 0 12.7	2.114	3.084	4.8	20.9
11 7	2 33.55	+ 6 53.2	1.630	2.611	3.8	18.2	11 7	2 33.39	+ 0 2.6	2.129	3.092	5.3	20.9
11 17	2 26.26	+ 6 14.7	1.660	2.611	7.5	18.4	11 17	2 25.40	+ 0 5.4	2.173	3.099	7.6	21.1
11 27	2 20.35	+ 5 50.6	1.716	2.611	11.2	18.7	11 27	2 18.61	+ 0 22.7	2.243	3.107	10.4	21.3
12 7	2 16.49	+ 5 43.3	1.794	2.613	14.6	18.9	12 7	2 13.57	+ 0 54.1	2.337	3.115	12.9	21.5
<b>145030</b>	2005 <i>ET</i> <sub>269</sub>		11 3.7 112°78	4°8/	8.1 18		<b>230023</b>	2000 <i>JW</i> <sub>3</sub>		11 3.7 95°87			

EPHEMERIDES

11 3.7

11 3.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>72360</b>	2001 <i>BM</i> <sub>77</sub>	11	3.7 184°51	7°8/26.2	18		<b>305955</b>	2009 <i>HY</i> <sub>40</sub>	11	3.7 213°46	1°5/2.7	18	
9 28	2 57.95	- 8 38.6	2.500	3.321	11.4	19.5	9 28	3 1.76	+13 2.6	1.931	2.759	14.0	21.2
10 8	2 53.72	-10 10.4	2.443	3.321	9.6	19.4	10 8	2 57.20	+12 34.3	1.853	2.759	10.7	21.0
10 18	2 47.91	-11 35.1	2.410	3.321	8.2	19.3	10 18	2 50.47	+11 58.8	1.798	2.758	6.9	20.8
10 28	2 41.05	-12 46.0	2.404	3.320	7.8	19.3	10 28	2 42.20	+11 19.3	1.770	2.757	2.9	20.5
11 7	2 33.81	-13 37.8	2.425	3.320	8.6	19.3	11 7	2 33.34	+10 40.0	1.770	2.756	2.4	20.5
11 17	2 26.89	-14 7.3	2.472	3.319	10.2	19.4	11 17	2 24.89	+10 5.8	1.798	2.755	6.4	20.8
11 27	2 20.99	-14 13.4	2.542	3.318	12.1	19.6	11 27	2 17.80	+ 9 41.1	1.854	2.754	10.2	21.0
12 7	2 16.60	-13 57.4	2.633	3.317	13.8	19.7	12 7	2 12.78	+ 9 28.9	1.933	2.753	13.6	21.2
<b>470986</b>	2009 <i>SS</i> <sub>71</sub>	11	3.7 359°76	0°7/4.1	18		<b>325362</b>	2008 <i>OZ</i> <sub>21</sub>	11	3.8 42°49	8°4/11.1	18	
9 28	2 58.70	+18 30.6	1.094	1.954	20.3	21.2	9 28	3 5.49	+39 54.2	2.065	2.780	16.8	19.5
10 8	2 56.39	+18 21.4	1.031	1.950	15.8	20.9	10 8	3 0.55	+40 49.4	1.995	2.794	14.6	19.4
10 18	2 50.67	+17 55.3	0.985	1.948	10.5	20.6	10 18	2 52.88	+41 22.8	1.944	2.808	12.2	19.2
10 28	2 42.41	+17 14.6	0.960	1.947	4.5	20.3	10 28	2 43.25	+41 30.2	1.915	2.823	9.9	19.1
11 7	2 33.13	+16 24.9	0.958	1.948	2.0	20.1	11 7	2 32.85	+41 10.4	1.910	2.839	8.5	19.1
11 17	2 24.52	+15 34.6	0.980	1.950	8.0	20.5	11 17	2 23.00	+40 26.0	1.931	2.854	8.7	19.1
11 27	2 18.16	+14 52.8	1.025	1.953	13.6	20.8	11 27	2 14.92	+39 23.3	1.978	2.870	10.2	19.2
12 7	2 15.03	+14 26.3	1.089	1.958	18.3	21.1	12 7	2 9.44	+38 11.3	2.050	2.886	12.3	19.4
<b>488100</b>	2015 <i>VR</i> <sub>63</sub>	11	3.7 319°65	6°2/29.9	18		<b>301527</b>	2009 <i>FY</i> <sub>35</sub>	11	3.8 318°48	7°1/29.3	18	
9 28	2 58.65	+ 0 28.6	1.938	2.781	13.4	20.7	9 28	2 58.41	+ 1 39.7	1.603	2.457	15.2	20.5
10 8	2 54.78	- 0 34.6	1.864	2.771	10.6	20.5	10 8	2 55.05	+ 0 9.9	1.531	2.445	12.0	20.3
10 18	2 48.87	- 1 36.3	1.814	2.762	7.8	20.4	10 18	2 49.27	- 1 21.0	1.482	2.434	8.9	20.1
10 28	2 41.52	- 2 29.9	1.789	2.753	6.2	20.2	10 28	2 41.77	- 2 44.1	1.457	2.422	7.2	20.0
11 7	2 33.59	- 3 9.3	1.791	2.744	7.0	20.3	11 7	2 33.56	- 3 50.4	1.458	2.411	8.3	20.0
11 17	2 26.01	- 3 29.9	1.820	2.736	9.6	20.4	11 17	2 25.74	- 4 33.1	1.484	2.401	11.3	20.2
11 27	2 19.69	- 3 29.3	1.873	2.728	12.5	20.6	11 27	2 19.42	- 4 48.3	1.534	2.391	14.7	20.3
12 7	2 15.28	- 3 7.7	1.948	2.720	15.3	20.8	12 7	2 15.34	- 4 36.5	1.603	2.381	17.8	20.5
<b>81586</b>	2000 <i>HE</i> <sub>48</sub>	11	3.7 307°15	0°5/3.4	18		<b>287341</b>	2002 <i>TU</i> <sub>348</sub>	11	3.8 72°76	5°8/31.1	18	
9 28	2 58.09	+19 24.0	1.685	2.515	15.7	18.2	9 28	3 3.64	+ 1 22.6	1.770	2.608	14.7	20.6
10 8	2 54.95	+18 18.6	1.588	2.493	12.2	17.9	10 8	2 58.48	+ 0 34.2	1.720	2.626	11.4	20.5
10 18	2 49.31	+16 54.4	1.512	2.471	8.0	17.6	10 18	2 51.15	- 0 11.1	1.693	2.644	8.1	20.3
10 28	2 41.80	+15 14.8	1.461	2.449	3.2	17.3	10 28	2 42.42	- 0 47.5	1.692	2.661	5.9	20.2
11 7	2 33.43	+13 26.8	1.439	2.428	1.9	17.1	11 7	2 33.30	- 1 9.6	1.718	2.679	6.5	20.3
11 17	2 25.37	+11 39.8	1.444	2.407	7.0	17.4	11 17	2 24.83	- 1 14.2	1.771	2.696	9.2	20.5
11 27	2 18.78	+10 3.6	1.476	2.386	11.7	17.6	11 27	2 17.90	- 0 59.9	1.850	2.714	12.2	20.7
12 7	2 14.51	+ 8 45.9	1.531	2.365	15.8	17.9	12 7	2 13.13	- 0 27.8	1.950	2.731	14.9	21.0
<b>43971</b>	Gabzdyl	11	3.7 120°41	0°7/3.2	18		<b>268724</b>	2006 <i>HW</i> <sub>114</sub>	11	3.8 292°82	0°0/3.8	17	
9 28	3 3.38	+15 33.9	2.080	2.896	13.6	20.5	9 28	3 2.64	+15 24.7	2.232	3.046	12.9	20.8
10 8	2 58.13	+15 1.8	2.012	2.911	10.4	20.3	10 8	2 57.81	+15 34.0	2.135	3.031	10.0	20.6
10 18	2 50.87	+14 21.2	1.968	2.925	6.7	20.1	10 18	2 50.89	+15 37.2	2.061	3.016	6.5	20.4
10 28	2 42.28	+13 34.8	1.951	2.938	2.7	19.9	10 28	2 42.43	+15 35.2	2.014	3.001	2.7	20.1
11 7	2 33.26	+12 46.8	1.963	2.951	1.7	19.8	11 7	2 33.23	+15 29.8	1.997	2.986	1.3	20.0
11 17	2 24.75	+12 2.1	2.005	2.964	5.6	20.1	11 17	2 24.23	+15 23.7	2.008	2.971	5.3	20.2
11 27	2 17.61	+11 25.2	2.074	2.976	9.3	20.4	11 27	2 16.37	+15 20.1	2.048	2.956	9.0	20.4
12 7	2 12.44	+10 59.4	2.169	2.988	12.4	20.6	12 7	2 10.39	+15 22.1	2.113	2.941	12.3	20.6
<b>349890</b>	2009 <i>DZ</i> <sub>130</sub>	11	3.7 317°35	6°4/31.9	18		<b>1216</b>	Askania	11	3.8 114°32	5°1/31.7	18	
9 28	3 5.69	+ 0 16.7	1.494	2.338	16.6	20.5	9 28	3 7.44	+ 5 21.9	1.562	2.400	16.3	17.2
10 8	3 1.04	+ 0 4.0	1.408	2.317	13.2	20.2	10 8	3 1.67	+ 4 24.7	1.509	2.417	12.5	17.0
10 18	2 53.43	- 0 3.2	1.343	2.296	9.6	20.0	10 18	2 53.34	+ 3 26.2	1.478	2.434	8.5	16.9
10 28	2 43.56	+ 0 1.2	1.302	2.275	6.7	19.8	10 28	2 43.34	+ 2 33.2	1.472	2.450	5.4	16.7
11 7	2 32.57	+ 0 22.4	1.287	2.255	7.1	19.7	11 7	2 32.87	+ 1 52.3	1.494	2.465	5.9	16.8
11 17	2 21.86	+ 1 3.4	1.298	2.236	10.5	19.9	11 17	2 23.16	+ 1 28.5	1.544	2.480	9.3	17.0
11 27	2 12.84	+ 2 4.9	1.333	2.217	14.7	20.1	11 27	2 15.29	+ 1 24.6	1.618	2.494	13.0	17.3
12 7	2 6.53	+ 3 24.8	1.390	2.199	18.5	20.3	12 7	2 9.94	+ 1 40.4	1.714	2.508	16.2	17.5
<b>521346</b>	2015 <i>LH</i> <sub>45</sub>	11	3.7 284°08	11°0/27.1	18		<b>333190</b>	2012 <i>FZ</i> <sub>57</sub>	11	3.8 132°71	4°4/31.0	18	
9 28	3 3.59	-11 36.7	1.728	2.552	15.6	20.8	9 28	3 0.58	+ 1 18.5	2.541	3.366	11.1	20.7
10 8	2 58.83	-12 53.7	1.663	2.540	13.4	20.6	10 8	2 55.66	+ 0 43.5	2.474	3.372	8.7	20.5
10 18	2 51.62	-13 58.4	1.620	2.528	11.6	20.5	10 18	2 49.16	+ 0 10.5	2.431	3.378	6.2	20.4
10 28	2 42.68	-14 41.4	1.600	2.516	11.0	20.4	10 28	2 41.60	- 0 16.4	2.416	3.384	4.5	20.3
11 7	2 33.05	-14 55.5	1.604	2.503	11.9	20.4	11 7	2 33.69	- 0 33.8	2.430	3.390	5.0	20.3
11 17	2 23.88	-14 37.2	1.632	2.491	13.9	20.5	11 17	2 26.12	- 0 39.1	2.473	3.395	7.1	20.4
11 27	2 16.24	-13 47.2	1.681	2.479	16.3	20.7	11 27	2 19.58	- 0 30.6	2.544	3.400	9.6	20.6
12 7	2 10.90	-12 29.5	1.749	2.467	18.7	20.8	12 7	2 14.59	- 0 8.6	2.638	3.405	11.8	20.8
<b>259477</b>	2003 <i>SM</i> <sub>184</sub>	11	3.7 28°86	1°8/2.8	16		<b>495771</b>	2017 <i>EH</i> <sub>6</sub>	11	3.8 239°94	1°1/4.6	17	
9 28	3 0.81	+14 58.6	1.024	1.891	20.8	20.5	9 28	3 1.92	+19 15.1	2.453	3.254	12.2	20.8
10 8	2 57.83	+14 16.0	0.976	1.902	15.9	20.2	10 8	2 57.01	+19 23.0	2.364	3.250	9.5	20.7
10 18	2 51.41	+13 19.1	0.946	1.913	10.2	19.9	10 18	2 50.22	+19 22.6	2.299	3.247	6.4	20.5
10 28	2 42.64	+12 14.2	0.937	1.926	4.1	19.7	10 28	2 42.11	+19 14.4	2.260	3.244	3.0	20.2
11 7	2 33.14	+11 10.3	0.952	1.940	3.3	19.7	11 7	2 33.42	+19 0.1	2.251	3.240	1.4	20.1
11 17	2 24.60	+10 16.7	0.990	1.955	9.0	20.0	11 17	2 25.00	+18 42.2	2.273	3.237	4.6	20.3
11 27	2 18.45	+ 9 41.3	1.051	1.970	14.3	20.4	11 27	2 17.68	+18 24.4	2.322	3.233	8.0	20.5
12 7	2 15.51	+ 9 27.5	1.131	1.987	18.7	20.7	12 7	2 12.09	+18 10.3	2.398	3.229	10.9	20.7
<b>511011</b>	2013 <i>PU</i> <sub>26</sub>	11	3.7 142°74	1°4/2.8	17		<b>306862</b>	2001					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>28407</b>	Meghanarao	11	3.8 278 <sup>o</sup> 12	2 <sup>o</sup> 5/ 5.3	18		<b>77781</b>	2001 QJ <sub>32</sub>	11	3.8 205 <sup>o</sup> 30	4 <sup>o</sup> 4/ 7.4	18	
9 28	3 4.67	+22 4.2	1.809	2.614	15.7	18.6	9 28	3 5.16	+30 9.2	2.410	3.165	13.7	20.1
10 8	2 59.98	+22 21.7	1.716	2.602	12.5	18.4	10 8	2 59.75	+30 28.3	2.315	3.160	11.3	19.9
10 18	2 52.63	+22 26.7	1.644	2.589	8.7	18.1	10 18	2 52.16	+30 32.4	2.241	3.155	8.5	19.7
10 28	2 43.25	+22 18.3	1.597	2.577	4.7	17.9	10 28	2 42.98	+30 19.8	2.193	3.150	5.8	19.6
11 7	2 32.89	+21 57.8	1.578	2.564	2.7	17.7	11 7	2 33.10	+29 51.0	2.174	3.144	4.4	19.5
11 17	2 22.81	+21 28.7	1.586	2.552	6.1	17.9	11 17	2 23.51	+29 8.6	2.183	3.138	5.6	19.5
11 27	2 14.26	+20 56.7	1.622	2.539	10.3	18.1	11 27	2 15.20	+28 17.8	2.222	3.131	8.3	19.7
12 7	2 8.15	+20 28.1	1.681	2.526	14.1	18.3	12 7	2 8.91	+27 24.8	2.286	3.124	11.1	19.9
<b>347518</b>	1999 TJ <sub>62</sub>	11	3.8 354 <sup>o</sup> 03	0 <sup>o</sup> 3/ 3.6	18		<b>238179</b>	2003 SR <sub>219</sub>	11	3.8 38 <sup>o</sup> 36	3 <sup>o</sup> 0/ 1.5	18	
9 28	2 59.92	+15 56.6	1.338	2.188	17.9	20.6	9 28	2 59.24	+13 55.5	1.342	2.196	17.6	19.6
10 8	2 56.80	+15 47.9	1.267	2.182	13.8	20.3	10 8	2 55.81	+12 26.0	1.293	2.213	13.3	19.4
10 18	2 50.72	+15 27.6	1.215	2.178	9.0	20.0	10 18	2 49.72	+10 44.5	1.266	2.231	8.4	19.1
10 28	2 42.47	+14 58.3	1.187	2.175	3.7	19.7	10 28	2 41.93	+8 59.1	1.262	2.249	3.9	18.9
11 7	2 33.30	+14 24.7	1.183	2.173	1.9	19.6	11 7	2 33.67	+7 20.2	1.286	2.269	4.2	19.0
11 17	2 24.66	+13 52.8	1.205	2.172	7.4	19.9	11 17	2 26.21	+5 57.1	1.335	2.288	8.6	19.3
11 27	2 17.90	+13 29.2	1.252	2.172	12.4	20.2	11 27	2 20.62	+4 56.6	1.409	2.309	12.9	19.6
12 7	2 13.92	+13 18.6	1.319	2.173	16.7	20.5	12 7	2 17.53	+4 21.2	1.504	2.330	16.5	19.9
<b>274248</b>	2008 OO <sub>12</sub>	11	3.8 24 <sup>o</sup> 43	13 <sup>o</sup> 4/ 26.2	18		<b>448930</b>	2011 VH <sub>11</sub>	11	3.8 36 <sup>o</sup> 18	1 <sup>o</sup> 6/ 5.2	18	
9 28	2 55.44	- 4 56.0	0.956	1.841	20.4	18.0	9 28	2 59.66	+25 9.1	1.657	2.468	16.7	20.9
10 8	2 53.50	- 7 39.9	0.937	1.859	16.8	17.9	10 8	2 55.96	+24 6.1	1.586	2.476	13.2	20.6
10 18	2 48.42	-10 7.4	0.937	1.878	14.1	17.8	10 18	2 49.80	+22 41.6	1.535	2.484	8.9	20.4
10 28	2 41.39	-12 1.5	0.957	1.899	13.4	17.9	10 28	2 41.98	+20 58.6	1.510	2.492	4.4	20.2
11 7	2 33.92	-13 10.6	0.997	1.922	14.8	18.0	11 7	2 33.63	+19 4.1	1.512	2.501	1.8	20.0
11 17	2 27.47	-13 31.3	1.057	1.946	17.3	18.3	11 17	2 25.92	+17 7.8	1.543	2.510	6.0	20.3
11 27	2 23.19	-13 6.8	1.135	1.972	20.1	18.6	11 27	2 19.89	+15 19.7	1.601	2.520	10.3	20.6
12 7	2 21.70	-12 5.7	1.228	1.999	22.6	18.8	12 7	2 16.21	+13 47.9	1.684	2.530	14.1	20.8
<b>346543</b>	2008 UX <sub>289</sub>	11	3.8 259 <sup>o</sup> 34	4 <sup>o</sup> 0/ 1.4	18		<b>150324</b>	1999 VM <sub>107</sub>	11	3.8 45 <sup>o</sup> 42	0 <sup>o</sup> 0/ 3.6	18	
9 28	3 4.78	+ 5 48.2	1.797	2.631	14.7	21.2	9 28	3 1.27	+16 39.7	1.845	2.670	14.7	19.8
10 8	2 59.72	+ 5 24.5	1.716	2.623	11.3	21.0	10 8	2 56.83	+16 24.2	1.783	2.685	11.3	19.6
10 18	2 52.25	+ 4 59.6	1.658	2.615	7.7	20.7	10 18	2 50.21	+15 59.3	1.744	2.701	7.3	19.4
10 28	2 43.02	+ 4 38.1	1.626	2.607	4.5	20.5	10 28	2 42.13	+15 27.3	1.730	2.717	3.0	19.2
11 7	2 33.05	+ 4 24.5	1.622	2.598	4.7	20.5	11 7	2 33.57	+14 52.0	1.744	2.733	1.4	19.1
11 17	2 23.45	+ 4 22.7	1.646	2.590	8.1	20.7	11 17	2 25.57	+14 18.0	1.786	2.750	5.7	19.4
11 27	2 15.32	+ 4 35.4	1.696	2.581	11.9	20.9	11 27	2 19.04	+13 50.2	1.855	2.766	9.6	19.7
12 7	2 9.44	+ 5 3.3	1.768	2.573	15.3	21.1	12 7	2 14.63	+13 32.0	1.949	2.784	12.9	19.9
<b>447159</b>	2005 JC <sub>20</sub>	11	3.8 230 <sup>o</sup> 51	5 <sup>o</sup> 7/ 30.3	18		<b>138172</b>	2000 EU <sub>102</sub>	11	3.8 87 <sup>o</sup> 80	2 <sup>o</sup> 1/ 5.3	18	
9 28	3 3.32	- 0 57.9	2.285	3.109	12.3	21.5	9 28	3 4.06	+22 14.3	1.914	2.717	15.1	20.3
10 8	2 58.08	- 1 45.9	2.202	3.097	9.8	21.3	10 8	2 59.05	+22 16.2	1.843	2.728	11.9	20.1
10 18	2 50.93	- 2 31.0	2.144	3.085	7.3	21.1	10 18	2 51.72	+22 5.0	1.793	2.739	8.1	19.9
10 28	2 42.42	- 3 8.2	2.113	3.073	5.8	21.0	10 28	2 42.78	+21 41.1	1.769	2.749	4.2	19.7
11 7	2 33.34	- 3 32.5	2.110	3.059	6.4	21.0	11 7	2 33.25	+21 7.0	1.773	2.760	2.2	19.6
11 17	2 24.56	- 3 40.4	2.136	3.046	8.7	21.2	11 17	2 24.25	+20 27.1	1.805	2.771	5.5	19.8
11 27	2 16.90	- 3 30.2	2.188	3.032	11.4	21.3	11 27	2 16.78	+19 47.2	1.865	2.781	9.3	20.1
12 7	2 11.02	- 3 2.3	2.263	3.017	13.9	21.5	12 7	2 11.53	+19 12.6	1.950	2.792	12.6	20.3
<b>401797</b>	2014 HP <sub>26</sub>	11	3.8 218 <sup>o</sup> 95	0 <sup>o</sup> 3/ 3.6	18		<b>396938</b>	2005 GE <sub>172</sub>	11	3.8 161 <sup>o</sup> 51	0 <sup>o</sup> 8/ 3.1	18	
9 28	3 6.99	+14 3.5	2.006	2.821	14.1	20.9	9 28	3 3.23	+14 31.1	2.285	3.099	12.6	22.3
10 8	3 1.28	+14 13.8	1.919	2.816	10.9	20.6	10 8	2 57.99	+14 8.7	2.207	3.104	9.7	22.1
10 18	2 53.21	+14 18.5	1.855	2.810	7.1	20.4	10 18	2 50.84	+13 39.3	2.152	3.108	6.2	21.9
10 28	2 43.42	+14 18.5	1.818	2.805	2.9	20.1	10 28	2 42.39	+13 5.1	2.126	3.113	2.5	21.7
11 7	2 32.86	+14 15.9	1.810	2.799	1.6	20.0	11 7	2 33.46	+12 29.6	2.128	3.116	1.7	21.6
11 17	2 22.63	+14 13.5	1.831	2.793	5.9	20.3	11 17	2 24.91	+11 56.7	2.161	3.120	5.4	21.9
11 27	2 13.79	+14 14.7	1.881	2.786	9.9	20.5	11 27	2 17.57	+11 30.3	2.223	3.123	8.8	22.1
12 7	2 7.12	+14 22.6	1.956	2.779	13.3	20.8	12 7	2 12.05	+11 13.3	2.309	3.125	11.8	22.3
<b>226426</b>	2003 SJ <sub>10</sub>	11	3.8 130 <sup>o</sup> 16	3 <sup>o</sup> 0/ 6.2	17		<b>252865</b>	2002 HA <sub>15</sub>	11	3.8 184 <sup>o</sup> 22	0 <sup>o</sup> 6/ 3.2	18	
9 28	3 2.47	+25 13.7	2.384	3.166	13.1	20.7	9 28	3 0.91	+14 45.4	2.383	3.198	12.1	20.7
10 8	2 57.56	+25 29.8	2.299	3.168	10.5	20.5	10 8	2 56.20	+14 26.1	2.300	3.198	9.3	20.6
10 18	2 50.65	+25 33.8	2.236	3.169	7.5	20.3	10 18	2 49.69	+14 0.1	2.242	3.198	6.0	20.3
10 28	2 42.32	+25 25.3	2.199	3.171	4.5	20.1	10 28	2 41.93	+13 29.4	2.211	3.198	2.4	20.1
11 7	2 33.40	+25 5.2	2.191	3.173	3.0	20.0	11 7	2 33.68	+12 57.0	2.209	3.197	1.5	20.0
11 17	2 24.81	+24 36.3	2.213	3.175	5.0	20.2	11 17	2 25.75	+12 26.7	2.237	3.197	5.1	20.3
11 27	2 17.42	+24 3.1	2.263	3.176	8.0	20.3	11 27	2 18.93	+12 2.2	2.294	3.196	8.5	20.5
12 7	2 11.89	+23 30.6	2.338	3.178	10.9	20.5	12 7	2 13.81	+11 46.3	2.376	3.195	11.4	20.7
<b>389768</b>	2011 SX <sub>224</sub>	11	3.8 148 <sup>o</sup> 35	4 <sup>o</sup> 3/ 6.9	18		<b>22103</b>	2000 LR <sub>17</sub>	11	3.8 86 <sup>o</sup> 66	0 <sup>o</sup> 7/ 3.3	18	
9 28	3 7.63	+28 15.5	2.190	2.955	14.6	21.1	9 28	3 5.08	+16 45.0	1.654	2.479	16.2	18.4
10 8	3 1.73	+28 46.7	2.108	2.962	11.9	20.9	10 8	2 59.84	+16 3.2	1.599	2.501	12.3	18.2
10 18	2 53.46	+29 3.4	2.048	2.969	8.8	20.7	10 18	2 52.17	+15 9.8	1.565	2.523	7.9	18.0
10 28	2 43.50	+29 3.7	2.014	2.975	5.8	20.6	10 28	2 42.93	+14 8.8	1.557	2.544	3.2	17.8
11 7	2 32.85	+28 47.8	2.008	2.981	4.3	20.5	11 7	2 33.26	+13 6.0	1.577	2.565	1.9	17.8
11 17	2 22.60	+28 18.4	2.031	2.987	5.9	20.6	11 17	2 24.34	+12 7.9	1.625	2.586	6.5	18.1
11 27	2 13.82	+27 40.7	2.083	2.992	8.8	20.8	11 27	2 17.17	+11 20.5	1.700	2.607	10.6	18.4
12 7	2 7.26	+27 1.1	2.160	2.997	11.7	21.0	12 7	2 12.39	+10 47.8	1.799	2.627	14.1	18.7
<b>394445</b>	2007 RY <sub>12</sub>	11	3.8 70 <sup>o</sup> 45	3 <sup>o</sup> 3/ 5.9	18		<b>227408</b>	2005 UZ <sub>448</sub>	11	3.8 178 <sup>o</sup> 11	1 <sup>o</sup> 3/ 4.7	18	
9 28	3 5.33	+24 36.0	1.696	2.497	16.8	20.6	9 28	3 5.53	+20 47.4	1.982	2.784	14.7	21.7
10 8	3 0.36	+24 50.3	1.628	2.509	13.4	20.4	10 8	3 0.17	+20 34.7	1.899	2.786	11.5	21.5
10 18	2 52.71	+24 48.6	1.581	2.521	9.4	20.2	10 18	2 52.47	+20 9.4	1.839	2.787	7.7	21.3
10 28	2 43.20	+24 30.3	1.558	2.534	5.4	20.0	10 28	2 43.13	+19 32.3	1.805	2.788	3.6	21.1
11 7	2 33.01	+23 57.5	1.562	2.546	3.3	19.9	11 7	2 33.12	+18 46.6	1.799	2.788	1.6	20.9
11 17	2 23.44	+23 15.0	1.594	2.558	6.1	20.1	11 17	2 23.55	+17 57.0	1.823	2.788	5.5	21.2
11 27	2 15.65	+22 29.5	1.652	2.571	10.0	20.4	11 27	2 15.46					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>89246</b>	2001 <i>UU</i> <sub>167</sub>	11	3.8	74°21	6°8/7.9	18 R	<b>324829</b>	2007 <i>HC</i> <sub>97</sub>	11	3.8	296°79	2°9/2.0	17
9 28	3 9.84	+31 14.8	1.585	2.358	19.0	18.3	9 28	3 3.38	+7 7.5	2.068	2.896	13.2	20.5
10 8	3 4.31	+32 9.2	1.520	2.373	15.7	18.1	10 8	2 58.46	+7 0.3	1.979	2.883	10.2	20.2
10 18	2 55.55	+32 43.2	1.473	2.388	12.1	18.0	10 18	2 51.38	+6 52.1	1.913	2.870	6.8	20.0
10 28	2 44.48	+32 52.2	1.450	2.403	8.6	17.8	10 28	2 42.73	+6 45.8	1.874	2.857	3.6	19.8
11 7	2 32.51	+32 35.7	1.452	2.418	6.8	17.7	11 7	2 33.37	+6 44.6	1.863	2.844	3.6	19.8
11 17	2 21.24	+31 57.3	1.481	2.433	8.0	17.8	11 17	2 24.27	+6 51.4	1.882	2.831	6.9	19.9
11 27	2 12.14	+31 5.2	1.535	2.448	11.1	18.1	11 27	2 16.41	+7 8.5	1.928	2.819	10.4	20.1
12 7	2 6.11	+30 9.3	1.613	2.463	14.4	18.3	12 7	2 10.49	+7 37.1	1.998	2.806	13.7	20.3
<b>286333</b>	2001 <i>XO</i> <sub>12</sub>	11	3.8	4°59	8°5/10.6	17	<b>259753</b>	2004 <i>AY</i>	11	3.8	304°39	1°1/3.9	18 R
9 28	3 1.25	+37 58.3	1.649	2.402	19.1	20.2	9 28	3 16.91	+12 22.1	1.346	2.170	19.2	19.6
10 8	2 57.90	+38 31.7	1.572	2.402	16.5	20.0	10 8	3 11.06	+13 42.9	1.237	2.137	15.3	19.3
10 18	2 51.50	+38 39.1	1.511	2.402	13.4	19.8	10 18	3 1.05	+15 8.9	1.148	2.104	10.4	18.9
10 28	2 42.85	+38 16.1	1.472	2.404	10.5	19.6	10 28	2 47.28	+16 37.8	1.084	2.070	4.6	18.5
11 7	2 33.27	+37 22.1	1.456	2.406	8.6	19.5	11 7	2 31.01	+18 6.1	1.048	2.037	2.3	18.2
11 17	2 24.26	+36 1.5	1.465	2.409	9.0	19.5	11 17	2 14.22	+19 29.9	1.040	2.004	8.7	18.5
11 27	2 17.24	+34 23.8	1.499	2.413	11.2	19.7	11 27	1 59.22	+20 48.3	1.059	1.972	14.9	18.7
12 7	2 13.11	+32 40.6	1.557	2.417	14.2	19.9	12 7	1 47.85	+22 3.7	1.100	1.940	20.3	19.0
<b>94197</b>	2001 <i>BB</i> <sub>15</sub>	11	3.8	3°51	8°5/27.7	18	<b>396024</b>	2013 <i>CK</i> <sub>4</sub>	11	3.8	88°22	2°1/2.2	18
9 28	2 58.86	-6 41.0	1.962	2.797	13.6	18.9	9 28	3 1.13	+12 11.4	1.870	2.703	14.2	20.9
10 8	2 54.87	-8 0.8	1.905	2.797	11.2	18.7	10 8	2 56.78	+11 27.7	1.798	2.706	10.8	20.7
10 18	2 48.91	-9 12.8	1.872	2.797	9.3	18.6	10 18	2 50.26	+10 36.5	1.747	2.708	7.0	20.5
10 28	2 41.63	-10 9.5	1.863	2.797	8.5	18.6	10 28	2 42.23	+9 42.1	1.724	2.710	3.2	20.3
11 7	2 33.88	-10 44.7	1.880	2.798	9.3	18.6	11 7	2 33.64	+8 49.8	1.728	2.712	3.0	20.3
11 17	2 26.56	-10 55.0	1.922	2.799	11.3	18.8	11 17	2 25.51	+8 5.1	1.761	2.715	6.8	20.5
11 27	2 20.52	-10 39.5	1.988	2.801	13.6	18.9	11 27	2 18.77	+7 32.8	1.820	2.717	10.6	20.7
12 7	2 16.35	-10 0.6	2.073	2.802	15.8	19.1	12 7	2 14.10	+7 15.5	1.903	2.719	13.9	21.0
<b>479470</b>	2014 <i>AP</i> <sub>1</sub>	11	3.8	339°84	0°0/3.6	16	<b>204800</b>	2006 <i>RL</i> <sub>26</sub>	11	3.8	26°67	4°4/31.9	18
9 28	3 1.71	+16 2.6	1.233	2.085	19.0	21.5	9 28	3 1.11	+6 12.8	1.658	2.504	15.1	20.1
10 8	2 58.56	+16 6.3	1.159	2.075	14.8	21.2	10 8	2 56.94	+5 27.6	1.595	2.508	11.6	19.9
10 18	2 52.13	+15 58.6	1.103	2.066	9.8	20.9	10 18	2 50.43	+4 40.4	1.554	2.513	7.8	19.7
10 28	2 43.19	+15 41.2	1.070	2.058	4.1	20.6	10 28	2 42.31	+3 56.9	1.538	2.518	4.8	19.5
11 7	2 33.09	+15 17.9	1.061	2.050	1.9	20.4	11 7	2 33.62	+3 22.9	1.550	2.524	5.2	19.6
11 17	2 23.47	+14 54.5	1.076	2.044	7.8	20.8	11 17	2 25.46	+3 3.3	1.588	2.530	8.6	19.8
11 27	2 15.91	+14 37.8	1.115	2.039	13.3	21.1	11 27	2 18.85	+3 1.1	1.651	2.536	12.2	20.0
12 7	2 11.44	+14 33.2	1.175	2.034	17.9	21.3	12 7	2 14.46	+3 16.8	1.736	2.543	15.4	20.3
<b>39997</b>	1998 <i>HE</i> <sub>76</sub>	11	3.8	212°15	1°0/2.9	18	<b>227970</b>	2007 <i>HL</i> <sub>32</sub>	11	3.8	93°89	1°5/4.9	18
9 28	3 0.90	+13 55.1	2.528	3.342	11.5	20.4	9 28	3 3.18	+20 5.1	2.282	3.082	13.1	21.2
10 8	2 56.13	+13 26.4	2.439	3.336	8.8	20.3	10 8	2 58.13	+20 18.8	2.199	3.084	10.2	21.0
10 18	2 49.63	+12 51.2	2.373	3.330	5.7	20.0	10 18	2 51.06	+20 23.4	2.140	3.087	6.9	20.8
10 28	2 41.93	+12 11.7	2.336	3.323	2.3	19.8	10 28	2 42.57	+20 19.1	2.107	3.089	3.4	20.6
11 7	2 33.73	+11 31.5	2.329	3.316	1.8	19.8	11 7	2 33.49	+20 7.3	2.103	3.091	1.7	20.5
11 17	2 25.80	+10 54.2	2.352	3.309	5.1	20.0	11 17	2 24.74	+19 50.8	2.129	3.094	4.9	20.7
11 27	2 18.90	+10 23.6	2.404	3.301	8.4	20.2	11 27	2 17.21	+19 33.4	2.184	3.096	8.3	20.9
12 7	2 13.60	+10 2.7	2.482	3.293	11.2	20.4	12 7	2 11.57	+19 19.1	2.264	3.099	11.3	21.1
<b>339202</b>	2004 <i>TK</i> <sub>232</sub>	11	3.8	355°31	1°0/4.6	17	<b>91560</b>	1999 <i>RW</i> <sub>226</sub>	11	3.8	352°80	7°5/9.5	17
9 28	2 57.54	+18 52.6	2.188	3.004	13.0	20.2	9 28	3 0.32	+35 5.1	1.692	2.459	18.2	18.9
10 8	2 53.93	+18 58.6	2.104	2.999	10.1	20.0	10 8	2 57.10	+35 40.8	1.610	2.453	15.5	18.7
10 18	2 48.38	+18 55.7	2.042	2.995	6.8	19.7	10 18	2 50.98	+35 53.6	1.545	2.449	12.4	18.5
10 28	2 41.46	+18 44.8	2.007	2.991	3.1	19.5	10 28	2 42.68	+35 39.7	1.503	2.445	9.4	18.3
11 7	2 33.95	+18 27.9	2.000	2.989	1.4	19.4	11 7	2 33.42	+34 58.4	1.484	2.442	7.6	18.2
11 17	2 26.73	+18 8.1	2.021	2.987	4.9	19.6	11 17	2 24.61	+33 53.5	1.490	2.440	8.3	18.3
11 27	2 20.66	+17 49.5	2.070	2.986	8.4	19.8	11 27	2 17.61	+32 33.3	1.522	2.439	10.9	18.4
12 7	2 16.37	+17 35.6	2.143	2.986	11.6	20.0	12 7	2 13.35	+31 8.2	1.578	2.439	14.0	18.6
<b>174078</b>	2002 <i>GB</i> <sub>15</sub>	11	3.8	251°61	2°1/4.9	17	<b>99594</b>	2002 <i>GH</i> <sub>23</sub>	11	3.8	184°85	1°1/4.4	17
9 28	3 7.46	+20 30.9	1.492	2.310	17.9	20.5	9 28	3 7.92	+18 53.8	1.604	2.421	16.9	19.9
10 8	3 2.62	+20 45.8	1.407	2.302	14.2	20.3	10 8	3 2.58	+18 55.4	1.526	2.421	13.2	19.7
10 18	2 54.63	+20 47.1	1.343	2.294	9.7	20.0	10 18	2 54.36	+18 44.8	1.468	2.421	8.9	19.5
10 28	2 44.20	+20 34.3	1.303	2.286	4.8	19.7	10 28	2 44.03	+18 22.6	1.436	2.421	4.0	19.2
11 7	2 32.64	+20 9.1	1.288	2.277	2.4	19.5	11 7	2 32.82	+17 51.6	1.430	2.420	1.7	19.0
11 17	2 21.48	+19 36.2	1.301	2.268	7.0	19.8	11 17	2 22.11	+17 16.8	1.453	2.419	6.5	19.3
11 27	2 12.23	+19 2.7	1.340	2.259	11.9	20.0	11 27	2 13.22	+16 44.7	1.503	2.417	11.2	19.6
12 7	2 5.93	+18 35.6	1.401	2.249	16.2	20.3	12 7	2 7.04	+16 21.0	1.575	2.415	15.2	19.8
<b>243705</b>	2000 <i>CE</i> <sub>81</sub>	11	3.8	238°99	6°8/27.5	17	<b>399745</b>	<i>Ouchaou</i>	11	3.8	138°94	1°1/4.7	18
9 28	2 58.65	-6 39.7	2.677	3.497	10.8	20.4	9 28	3 5.47	+19 48.7	2.362	3.156	12.9	21.9
10 8	2 54.28	-7 50.8	2.604	3.486	8.9	20.3	10 8	2 59.69	+19 49.6	2.286	3.168	10.0	21.7
10 18	2 48.37	-8 56.6	2.555	3.475	7.4	20.2	10 18	2 51.96	+19 41.0	2.233	3.180	6.7	21.6
10 28	2 41.41	-9 51.6	2.534	3.464	6.8	20.1	10 28	2 42.91	+19 23.6	2.208	3.191	3.1	21.4
11 7	2 34.01	-10 31.0	2.540	3.452	7.5	20.2	11 7	2 33.37	+18 59.6	2.212	3.201	1.4	21.2
11 17	2 26.87	-10 51.6	2.573	3.440	9.2	20.2	11 17	2 24.25	+18 32.0	2.247	3.211	4.7	21.5
11 27	2 20.64	-10 51.9	2.631	3.428	11.1	20.4	11 27	2 16.39	+18 5.2	2.311	3.220	8.1	21.7
12 7	2 15.85	-10 32.8	2.710	3.415	13.0	20.5	12 7	2 10.40	+17 43.0	2.402	3.229	11.0	21.9
<b>494505</b>	2016 <i>WE</i> <sub>55</sub>	11	3.8	340°20	9°4/10.4	17	<b>227999</b>	2007 <i>LY</i> <sub>24</sub>	11	3.8	164°00	0°3/3.5	18
9 28	2 57.44	+37 2.5	1.347	2.129	21.3	20.6	9 28	3 0.02	+16 10.9	2.609	3.419	11.4	21.3
10 8	2 55.73	+37 39.6	1.262	2.113	18.5	20.4	10 8	2 55.38	+15 48.1	2.527	3.422	8.7	21.1
10 18	2 50.54	+37 47.2	1.193	2.098	15.1	20.1	10 18	2 49.11	+15 18.0	2.470	3.424	5.6	20.9
10 28	2 42.62	+37 19.1	1.142	2.084	11.8	19.9	10 28	2 41.73	+14 42.6	2.440	3.427	2.3	20.7
11 7	2 33.39	+36 13.5	1.114	2.072	9.5	19.7	11 7	2 33.92	+14 4.8	2.440	3.429	1.2	20.6
11 17	2 24.61	+34 35.0	1.108	2.061	10.0	19.7	11 17	2 26.43	+13 28.0	2.470	3.431	4.6	20.8
11 27	2 18.04	+32 35.4	1.126	2.052	12.9	19.9	11 27	2 19.94	+12 56.1	2.529	3.432	7.7	21.0
12 7	2 14.81	+30 30.1	1.166	2.044	16.7	20.1	12 7	2 15.00	+12 32.0	2.614</			

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>517547</b>	2014 SY <sub>304</sub>		11 3.8 93°38'	2°9'/31.5 18			<b>470157</b>	2006 UG <sub>114</sub>		11 3.8 345°74'	1°4'/4.4 18		
9 28	2 59.09	+10 17.3	2.456	3.281	11.5	20.9	9 28	3 4.35	+17 40.2	1.200	2.046	19.7	21.4
10 8	2 54.56	+8 46.9	2.394	3.299	8.7	20.8	10 8	3 0.77	+18 5.2	1.128	2.039	15.5	21.2
10 18	2 48.49	+7 11.1	2.359	3.317	5.6	20.6	10 18	2 53.69	+18 18.6	1.074	2.034	10.4	20.9
10 28	2 41.43	+5 35.5	2.353	3.334	3.2	20.5	10 28	2 43.93	+18 20.1	1.043	2.029	4.7	20.5
11 7	2 34.10	+4 5.8	2.378	3.352	3.7	20.6	11 7	2 32.94	+18 12.1	1.036	2.025	2.1	20.4
11 17	2 27.19	+2 47.5	2.433	3.369	6.4	20.8	11 17	2 22.47	+17 58.8	1.053	2.022	7.7	20.7
11 27	2 21.38	+1 44.8	2.516	3.386	9.2	21.0	11 27	2 14.21	+17 47.2	1.094	2.020	13.2	21.0
12 7	2 17.11	+0 59.5	2.625	3.402	11.6	21.2	12 7	2 9.25	+17 43.4	1.156	2.018	17.9	21.3
<b>192982</b>	2000 DX <sub>59</sub>		11 3.8 179°12'	3°9'/7.7 17			<b>401406</b>	2013 CG <sub>63</sub>		11 3.8 317°01'	0°0'/3.6 14 C		
9 28	3 2.86	+30 46.1	2.976	3.718	11.6	20.8	9 28	2 59.23	+18 25.9	1.569	2.404	16.4	21.1
10 8	2 57.59	+31 4.6	2.883	3.719	9.6	20.7	10 8	2 56.07	+17 53.3	1.480	2.387	12.8	20.8
10 18	2 50.59	+31 10.6	2.812	3.720	7.3	20.5	10 18	2 50.25	+17 5.5	1.411	2.371	8.5	20.5
10 28	2 42.37	+31 2.9	2.769	3.720	5.1	20.4	10 28	2 42.41	+16 5.0	1.367	2.355	3.5	20.2
11 7	2 33.62	+30 41.8	2.754	3.720	3.9	20.3	11 7	2 33.65	+14 57.0	1.349	2.339	1.7	20.0
11 17	2 25.14	+30 9.4	2.769	3.720	4.8	20.4	11 17	2 25.22	+13 49.0	1.358	2.324	6.9	20.3
11 27	2 17.67	+29 29.6	2.813	3.719	6.9	20.5	11 27	2 18.38	+12 49.1	1.393	2.310	11.7	20.6
12 7	2 11.80	+28 47.1	2.885	3.718	9.2	20.7	12 7	2 14.02	+12 3.8	1.450	2.296	15.9	20.8
<b>38027</b>	1998 QE <sub>14</sub>		11 3.8 73°68'	4°8'/30.6 18			<b>471930</b>	2013 PA <sub>33</sub>		11 3.8 231°95'	5°3'/7.0 17		
9 28	2 59.29	+3 44.5	2.111	2.948	12.7	18.2	9 28	3 7.07	+28 38.6	1.492	2.286	19.1	21.6
10 8	2 54.99	+2 35.1	2.054	2.961	9.8	18.1	10 8	3 2.49	+29 1.7	1.411	2.283	15.6	21.4
10 18	2 48.89	+1 25.6	2.022	2.974	6.8	17.9	10 18	2 54.62	+29 4.0	1.348	2.279	11.6	21.1
10 28	2 41.63	+0 21.8	2.017	2.987	4.9	17.8	10 28	2 44.26	+28 42.4	1.308	2.276	7.6	20.9
11 7	2 34.01	-0 30.8	2.040	3.001	5.6	17.9	11 7	2 32.80	+27 57.3	1.294	2.272	5.3	20.8
11 17	2 26.84	-1 7.8	2.090	3.014	8.1	18.1	11 17	2 21.85	+26 54.1	1.306	2.268	7.5	20.9
11 27	2 20.90	-1 26.7	2.167	3.027	10.9	18.3	11 27	2 12.97	+25 42.2	1.343	2.264	11.6	21.1
12 7	2 16.70	-1 27.1	2.267	3.040	13.4	18.5	12 7	2 7.18	+24 32.1	1.403	2.260	15.7	21.4
<b>128497</b>	2004 PA <sub>17</sub>		11 3.8 14°89'	5°3'/8.1 18			<b>74235</b>	1998 SF <sub>42</sub>		11 3.8 60°15'	0°9'/3.2 18		
9 28	3 2.75	+31 34.0	2.067	2.831	15.4	19.6	9 28	3 2.70	+15 11.1	1.654	2.487	15.8	19.9
10 8	2 58.27	+31 55.4	1.983	2.831	12.8	19.4	10 8	2 58.21	+14 41.9	1.592	2.498	12.1	19.7
10 18	2 51.39	+31 58.9	1.919	2.832	9.8	19.2	10 18	2 51.29	+14 3.0	1.551	2.510	7.8	19.5
10 28	2 42.77	+31 42.5	1.880	2.833	6.9	19.0	10 28	2 42.71	+13 17.6	1.535	2.523	3.1	19.3
11 7	2 33.44	+31 6.9	1.867	2.835	5.3	19.0	11 7	2 33.59	+12 31.1	1.547	2.535	2.1	19.2
11 17	2 24.51	+30 15.3	1.882	2.836	6.4	19.0	11 17	2 25.07	+11 48.9	1.586	2.547	6.6	19.5
11 27	2 17.07	+29 14.3	1.924	2.838	9.1	19.2	11 27	2 18.20	+11 16.5	1.652	2.560	10.8	19.8
12 7	2 11.87	+28 11.4	1.991	2.840	12.1	19.4	12 7	2 13.67	+10 57.5	1.741	2.573	14.3	20.1
<b>464325</b>	2016 AA <sub>109</sub>		11 3.8 261°52'	3°2'/6.7 17			<b>281728</b>	2008 XD <sub>10</sub>		11 3.8 74°64'	6°0'/31.7 18		
9 28	3 1.08	+27 5.3	2.668	3.438	12.2	21.8	9 28	3 8.98	+0 27.9	1.659	2.490	15.8	20.1
10 8	2 56.39	+27 21.6	2.577	3.436	9.8	21.7	10 8	3 2.55	-0 8.4	1.620	2.521	12.3	20.0
10 18	2 49.89	+27 26.1	2.509	3.434	7.2	21.5	10 18	2 53.80	-0 39.8	1.603	2.551	8.7	19.9
10 28	2 42.10	+27 18.0	2.467	3.432	4.6	21.3	10 28	2 43.64	-1 0.7	1.612	2.581	6.2	19.8
11 7	2 33.76	+26 58.2	2.453	3.430	3.2	21.2	11 7	2 33.21	-1 6.5	1.649	2.610	6.7	19.9
11 17	2 25.67	+26 29.0	2.469	3.429	4.7	21.3	11 17	2 23.64	-0 54.9	1.714	2.640	9.3	20.1
11 27	2 18.64	+25 54.5	2.514	3.427	7.3	21.5	11 27	2 15.88	-0 25.6	1.803	2.668	12.4	20.4
12 7	2 13.28	+25 19.2	2.586	3.425	10.0	21.7	12 7	2 10.50	+0 19.4	1.916	2.697	15.2	20.6
<b>407970</b>	2012 DK <sub>37</sub>		11 3.8 216°52'	3°4'/31.6 18			<b>510534</b>	2012 GW <sub>39</sub>		11 3.8 200°66'	0°4'/3.6 18		
9 28	2 58.79	+7 21.7	2.371	3.202	11.7	21.0	9 28	3 4.51	+18 6.1	1.596	2.421	16.6	21.1
10 8	2 54.57	+6 24.0	2.293	3.199	8.9	20.8	10 8	2 59.91	+17 22.0	1.517	2.419	12.9	20.9
10 18	2 48.65	+5 22.9	2.239	3.196	6.0	20.6	10 18	2 52.60	+16 22.9	1.460	2.417	8.4	20.6
10 28	2 41.56	+4 22.8	2.214	3.193	3.6	20.5	10 28	2 43.34	+15 12.1	1.427	2.414	3.4	20.3
11 7	2 34.03	+3 28.8	2.217	3.189	4.1	20.5	11 7	2 33.30	+13 55.7	1.422	2.411	1.8	20.2
11 17	2 26.81	+2 45.2	2.249	3.186	6.8	20.7	11 17	2 23.79	+12 41.4	1.445	2.408	6.9	20.5
11 27	2 20.63	+2 15.5	2.309	3.182	9.7	20.9	11 27	2 16.02	+11 37.4	1.495	2.404	11.6	20.8
12 7	2 16.06	+2 1.4	2.393	3.178	12.4	21.0	12 7	2 10.80	+10 49.5	1.567	2.400	15.6	21.0
<b>97707</b>	2000 GP <sub>83</sub>		11 3.8 244°02'	1°6'/5.1 17			<b>15703</b>	Yrjölä		11 3.8 17°31'	3°3'/5.8 18		
9 28	3 2.17	+20 50.1	2.464	3.260	12.3	19.7	9 28	3 0.52	+25 11.4	1.078	1.920	21.8	17.4
10 8	2 57.28	+21 0.6	2.374	3.256	9.7	19.5	10 8	2 57.99	+24 56.1	1.018	1.923	17.4	17.2
10 18	2 50.50	+21 1.9	2.307	3.251	6.6	19.3	10 18	2 51.86	+24 14.5	0.974	1.928	12.2	16.9
10 28	2 42.37	+20 54.3	2.267	3.247	3.3	19.1	10 28	2 43.12	+23 7.4	0.951	1.933	6.5	16.6
11 7	2 33.65	+20 39.1	2.256	3.243	1.7	18.9	11 7	2 33.43	+21 41.0	0.952	1.939	3.4	16.5
11 17	2 25.18	+20 19.0	2.274	3.239	4.6	19.1	11 17	2 24.58	+20 6.1	0.976	1.947	7.8	16.7
11 27	2 17.81	+19 57.6	2.322	3.234	7.9	19.3	11 27	2 18.17	+18 36.1	1.023	1.955	13.2	17.1
12 7	2 12.18	+19 39.1	2.396	3.230	10.8	19.5	12 7	2 15.12	+17 21.8	1.091	1.964	17.9	17.4
<b>67912</b>	2000 WA <sub>101</sub>		11 3.8 42°91'	7°8'/31.6 18			<b>366718</b>	2003 XP <sub>37</sub>		11 3.8 312°17'	0°7'/4.4 17		
9 28	3 7.22	-2 31.8	1.362	2.207	17.8	17.8	9 28	2 57.82	+20 30.3	2.117	2.930	13.5	20.5
10 8	3 1.81	-3 1.0	1.318	2.224	14.1	17.6	10 8	2 54.31	+19 55.7	2.019	2.913	10.5	20.3
10 18	2 53.62	-3 21.2	1.295	2.241	10.5	17.5	10 18	2 48.77	+19 7.6	1.943	2.896	7.0	20.1
10 28	2 43.62	-3 25.5	1.295	2.259	8.0	17.4	10 28	2 41.74	+18 7.9	1.894	2.879	3.2	19.8
11 7	2 33.15	-3 9.0	1.321	2.278	8.5	17.5	11 7	2 34.05	+17 0.5	1.873	2.862	1.3	19.6
11 17	2 23.56	-2 30.3	1.371	2.297	11.3	17.7	11 17	2 26.62	+15 50.8	1.881	2.846	5.3	19.9
11 27	2 16.02	-1 30.5	1.446	2.316	14.6	17.9	11 27	2 20.37	+14 45.3	1.917	2.830	9.2	20.1
12 7	2 11.19	-0 13.5	1.541	2.336	17.6	18.2	12 7	2 15.99	+13 49.5	1.977	2.815	12.6	20.3
<b>417383</b>	2006 HZ <sub>67</sub>		11 3.8 2°09'	0°1'/3.7 17			<b>155352</b>	2007 CA <sub>25</sub>		11 3.8 167°71'	4°2'/7.0 18		
9 28	3 2.27	+14 44.1	2.190	3.007	13.0	20.8	9 28	3 7.21	+28 46.1	2.015	2.7		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>345472</b>	2006 <i>HQ</i> <sub>21</sub>		11 3.8 187°29	1.7/ 2.6	18		<b>89011</b>	2001 <i>TY</i> <sub>80</sub>		11 3.8 242°68	0.2/ 3.6	18	
9 28	3 4.10	+12 4.5	2.090	2.911	13.4	21.9	9 28	3 0.47	+18 29.2	2.189	3.002	13.1	19.7
10 8	2 58.91	+11 38.1	2.009	2.910	10.2	21.7	10 8	2 56.16	+17 39.9	2.097	2.992	10.2	19.4
10 18	2 51.63	+11 5.8	1.952	2.910	6.6	21.5	10 18	2 49.87	+16 38.3	2.028	2.982	6.6	19.2
10 28	2 42.87	+10 30.3	1.922	2.908	2.9	21.2	10 28	2 42.18	+15 27.0	1.986	2.972	2.7	18.9
11 7	2 33.54	+9 55.9	1.921	2.907	2.5	21.2	11 7	2 33.90	+14 10.8	1.973	2.962	1.4	18.8
11 17	2 24.58	+9 26.5	1.950	2.905	6.2	21.4	11 17	2 25.94	+12 55.5	1.990	2.952	5.5	19.1
11 27	2 16.92	+9 6.3	2.006	2.902	9.8	21.7	11 27	2 19.17	+11 47.4	2.036	2.941	9.2	19.3
12 7	2 11.23	+8 57.8	2.087	2.899	13.0	21.9	12 7	2 14.26	+10 51.4	2.107	2.930	12.5	19.5
<b>77137</b>	2001 <i>DQ</i> <sub>107</sub>		11 3.8 46°92	2.5/ 2.2	18		<b>365776</b>	2010 <i>XH</i> <sub>51</sub>		11 3.8 24°00	2.5/ 2.3	18	
9 28	3 2.10	+12 4.6	1.468	2.314	16.8	18.9	9 28	3 3.46	+8 45.0	1.850	2.683	14.3	21.0
10 8	2 57.89	+11 18.1	1.416	2.331	12.7	18.7	10 8	2 58.62	+8 37.8	1.779	2.687	11.0	20.8
10 18	2 51.11	+10 23.9	1.386	2.349	8.2	18.5	10 18	2 51.53	+8 28.3	1.731	2.690	7.2	20.6
10 28	2 42.65	+9 27.3	1.380	2.367	3.7	18.3	10 28	2 42.87	+8 19.3	1.710	2.695	3.5	20.4
11 7	2 33.69	+8 35.1	1.401	2.385	3.5	18.4	11 7	2 33.60	+8 14.4	1.716	2.699	3.2	20.3
11 17	2 25.47	+7 53.3	1.448	2.404	7.8	18.7	11 17	2 24.79	+8 16.7	1.750	2.704	6.9	20.6
11 27	2 19.05	+7 27.0	1.520	2.423	11.9	19.0	11 27	2 17.42	+8 28.6	1.811	2.709	10.6	20.8
12 7	2 15.08	+7 18.3	1.615	2.442	15.5	19.2	12 7	2 12.19	+8 51.7	1.896	2.714	13.9	21.1
<b>292252</b>	2006 <i>SS</i> <sub>87</sub>		11 3.8 51°63	1.3/ 4.7	18		<b>6955</b>	<i>Ekaterina</i>		11 3.8 35°17	0.0/ 3.9	18	
9 28	3 4.01	+19 22.5	1.866	2.679	15.1	21.0	9 28	3 0.61	+17 7.5	1.875	2.699	14.5	16.7
10 8	2 59.18	+19 30.5	1.790	2.683	11.8	20.8	10 8	2 56.43	+16 53.5	1.809	2.710	11.2	16.5
10 18	2 51.97	+19 27.7	1.736	2.687	7.9	20.6	10 18	2 50.07	+16 29.8	1.765	2.721	7.3	16.3
10 28	2 43.05	+19 14.9	1.707	2.691	3.7	20.4	10 28	2 42.25	+15 58.5	1.746	2.733	3.0	16.1
11 7	2 33.46	+18 54.1	1.706	2.695	1.7	20.2	11 7	2 33.91	+15 23.3	1.756	2.745	1.4	16.0
11 17	2 24.30	+18 29.3	1.733	2.699	5.6	20.5	11 17	2 26.06	+14 48.8	1.794	2.758	5.6	16.3
11 27	2 16.65	+18 5.5	1.788	2.703	9.6	20.8	11 27	2 19.64	+14 19.8	1.858	2.771	9.5	16.6
12 7	2 11.25	+17 47.3	1.867	2.708	13.1	21.0	12 7	2 15.30	+14 0.0	1.947	2.784	12.8	16.8
<b>396493</b>	2014 <i>FM</i> <sub>49</sub>		11 3.8 123°62	0°0/ 3.8	18		<b>483002</b>	2014 <i>QS</i> <sub>441</sub>		11 3.8 315°61	0°5/ 27.9	16	
9 28	3 7.85	+14 46.4	2.135	2.942	13.6	21.0	9 28	2 39.05	-6 25.0	43.636	44.450	0.8	22.0
10 8	3 1.67	+14 57.7	2.062	2.955	10.5	20.8	10 8	2 38.45	-6 31.4	43.569	44.449	0.6	21.9
10 18	2 53.35	+15 3.0	2.014	2.967	6.8	20.6	10 18	2 37.77	-6 37.4	43.529	44.447	0.5	21.9
10 28	2 43.57	+15 3.2	1.992	2.979	2.8	20.4	10 28	2 37.06	-6 42.6	43.516	44.445	0.5	21.9
11 7	2 33.24	+15 0.2	2.001	2.990	1.3	20.3	11 7	2 36.32	-6 47.1	43.532	44.444	0.5	21.9
11 17	2 23.37	+14 56.6	2.040	3.001	5.3	20.6	11 17	2 35.59	-6 50.7	43.575	44.442	0.6	21.9
11 27	2 14.90	+14 55.8	2.107	3.012	9.0	20.8	11 27	2 34.90	-6 53.2	43.646	44.441	0.8	22.0
12 7	2 8.49	+15 0.5	2.200	3.022	12.1	21.0	12 7	2 34.28	-6 54.6	43.741	44.439	0.9	22.0
<b>398310</b>	2011 <i>BC</i> <sub>1</sub>		11 3.8 60°00	4°7/ 8.0	18		<b>486601</b>	2013 <i>JD</i> <sub>55</sub>		11 3.8 55°42	2°2/ 2.4	18	
9 28	3 2.05	+31 16.1	2.247	3.008	14.4	20.7	9 28	3 2.95	+9 18.6	2.062	2.889	13.3	20.7
10 8	2 57.50	+31 28.0	2.165	3.012	11.9	20.5	10 8	2 57.98	+9 8.6	1.992	2.897	10.1	20.6
10 18	2 50.78	+31 22.9	2.103	3.017	9.1	20.3	10 18	2 50.98	+8 55.8	1.946	2.904	6.6	20.4
10 28	2 42.54	+30 59.6	2.066	3.021	6.3	20.2	10 28	2 42.61	+8 43.0	1.927	2.912	3.1	20.2
11 7	2 33.71	+30 19.2	2.057	3.026	4.7	20.1	11 7	2 33.74	+8 33.4	1.936	2.920	2.9	20.2
11 17	2 25.28	+29 25.2	2.075	3.031	5.8	20.2	11 17	2 25.29	+8 30.1	1.974	2.928	6.3	20.4
11 27	2 18.21	+28 23.4	2.122	3.036	8.4	20.3	11 27	2 18.15	+8 35.5	2.040	2.936	9.7	20.6
12 7	2 13.18	+27 20.8	2.195	3.041	11.2	20.5	12 7	2 12.94	+8 51.2	2.130	2.944	12.7	20.8
<b>78610</b>	2002 <i>SM</i> <sub>54</sub>		11 3.8 22°56	5°3/ 8.3	17		<b>320392</b>	2007 <i>UE</i> <sub>60</sub>		11 3.8 38°44	0°1/ 3.9	17	
9 28	3 1.97	+32 12.2	2.214	2.971	14.7	19.7	9 28	3 7.26	+15 38.8	1.147	1.995	20.3	20.4
10 8	2 57.55	+32 36.0	2.131	2.974	12.2	19.5	10 8	3 2.83	+15 51.8	1.089	2.003	15.7	20.2
10 18	2 50.88	+32 42.9	2.068	2.977	9.5	19.4	10 18	2 54.87	+15 54.0	1.050	2.012	10.3	19.9
10 28	2 42.61	+32 30.8	2.030	2.980	6.8	19.2	10 28	2 44.37	+15 46.8	1.033	2.021	4.3	19.6
11 7	2 33.67	+32 0.2	2.019	2.984	5.3	19.1	11 7	2 32.94	+15 33.7	1.041	2.031	1.9	19.5
11 17	2 25.13	+31 14.2	2.036	2.988	6.2	19.2	11 17	2 22.34	+15 20.1	1.073	2.041	7.9	19.9
11 27	2 17.96	+30 18.5	2.080	2.992	8.7	19.4	11 27	2 14.15	+15 12.3	1.130	2.052	13.3	20.2
12 7	2 12.90	+29 20.0	2.149	2.996	11.4	19.5	12 7	2 9.30	+15 15.0	1.207	2.063	17.8	20.5
<b>385695</b>	2005 <i>TO</i> <sub>74</sub>		11 3.8 293°42	0°1/ 2.5	13 C		<b>364069</b>	2005 <i>XR</i> <sub>91</sub>		11 3.8 69°60	2°3/ 2.2	18	
9 28	2 40.21	+11 12.0	28.805	29.619	1.1	23.1	9 28	3 2.43	+9 10.6	2.115	2.942	13.0	20.8
10 8	2 39.33	+11 6.8	28.718	29.617	0.9	23.1	10 8	2 57.54	+8 54.2	2.044	2.948	9.9	20.6
10 18	2 38.34	+11 1.3	28.658	29.615	0.5	23.0	10 18	2 50.69	+8 35.0	1.996	2.954	6.5	20.4
10 28	2 37.27	+10 55.7	28.628	29.614	0.2	23.0	10 28	2 42.50	+8 15.8	1.976	2.961	3.1	20.2
11 7	2 36.18	+10 50.3	28.627	29.612	0.2	23.0	11 7	2 33.81	+8 0.2	1.984	2.967	3.0	20.3
11 17	2 35.11	+10 45.2	28.657	29.611	0.5	23.0	11 17	2 25.54	+7 51.3	2.021	2.973	6.3	20.5
11 27	2 34.09	+10 40.6	28.717	29.609	0.8	23.1	11 27	2 18.52	+7 51.8	2.086	2.980	9.6	20.7
12 7	2 33.17	+10 36.7	28.805	29.608	1.1	23.1	12 7	2 13.37	+8 3.3	2.175	2.986	12.6	20.9
<b>409775</b>	2006 <i>EU</i> <sub>10</sub>		11 3.8 341°52	4°3/ 31.2	17		<b>513773</b>	2012 <i>YG</i> <sub>4</sub>		11 3.8 275°54	6°7/ 8.9	18	
9 28	2 57.89	+5 58.9	2.010	2.852	13.0	21.0	9 28	3 4.33	+34 40.7	1.913	2.665	16.9	20.6
10 8	2 54.22	+4 57.3	1.937	2.848	10.0	20.8	10 8	2 59.97	+35 3.4	1.817	2.653	14.3	20.4
10 18	2 48.60	+3 53.0	1.887	2.844	6.8	20.6	10 18	2 52.81	+35 4.9	1.740	2.641	11.4	20.2
10 28	2 41.63	+2 51.4	1.863	2.840	4.5	20.4	10 28	2 43.54	+34 41.6	1.685	2.629	8.5	20.0
11 7	2 34.15	+1 58.4	1.867	2.837	5.1	20.4	11 7	2 33.29	+33 53.0	1.657	2.617	6.7	19.9
11 17	2 27.01	+1 19.1	1.899	2.834	8.0	20.6	11 17	2 23.38	+32 42.5	1.655	2.605	7.5	19.9
11 27	2 21.09	+0 57.0	1.957	2.831	11.2	20.8	11 27	2 15.13	+31 17.9	1.680	2.593	10.3	20.1
12 7	2 16.98	+0 53.3	2.037	2.828	14.0	21.0	12 7	2 9.47	+29 49.0	1.730	2.581	13.5	20.2
<b>151869</b>	2003 <i>JZ</i>		11 3.8 344°69	0°9/ 3.3	18		<b>36052</b>	1999 <i>RS</i> <sub>19</sub>		11 3.8 47°68	4°4/ 31.2	18	
9 28	3 2.30												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>373903</b>	2003 <i>UR</i> <sub>23</sub>		11 3.8 18°59'	0.5/3.5	17		<b>97432</b>	2000 <i>AG</i> <sub>227</sub>		11 3.8 223°66'	8.3/11.9	17	
9 28	2 54.07	+21 30.5	0.879	1.753	22.7	19.7	9 28	3 6.53	+43 22.0	2.570	3.242	14.8	19.9
10 8	2 53.24	+20 2.5	0.834	1.762	17.5	19.5	10 8	3 1.24	+44 13.3	2.478	3.240	13.1	19.8
10 18	2 48.78	+18 5.4	0.805	1.773	11.3	19.2	10 18	2 53.44	+44 45.4	2.405	3.238	11.2	19.7
10 28	2 41.85	+15 48.4	0.797	1.786	4.6	18.9	10 28	2 43.77	+44 54.1	2.353	3.235	9.5	19.5
11 7	2 34.17	+13 26.9	0.811	1.800	2.5	18.8	11 7	2 33.23	+44 37.5	2.327	3.232	8.4	19.5
11 17	2 27.49	+11 18.0	0.847	1.816	9.1	19.2	11 17	2 23.00	+43 56.7	2.327	3.230	8.4	19.5
11 27	2 23.27	+9 35.9	0.906	1.834	14.9	19.6	11 27	2 14.24	+42 56.5	2.353	3.227	9.5	19.5
12 7	2 22.24	+8 27.2	0.983	1.854	19.7	20.0	12 7	2 7.78	+41 44.2	2.404	3.224	11.3	19.6
<b>389407</b>	2010 <i>AT</i> <sub>18</sub>		11 3.8 206°25'	4.0/1.0	18		<b>270053</b>	2001 <i>OY</i> <sub>29</sub>		11 3.8 44°38'	4.3/6.1	18	
9 28	3 3.79	+6 42.6	1.854	2.688	14.3	21.5	9 28	3 7.41	+24 24.4	1.332	2.148	19.8	20.0
10 8	2 58.91	+5 55.5	1.778	2.685	11.0	21.3	10 8	3 2.76	+25 3.2	1.271	2.159	15.8	19.8
10 18	2 51.75	+5 5.2	1.725	2.682	7.4	21.1	10 18	2 54.76	+25 24.5	1.228	2.171	11.3	19.5
10 28	2 42.99	+4 17.1	1.699	2.679	4.4	20.9	10 28	2 44.35	+25 25.8	1.208	2.183	6.7	19.3
11 7	2 33.59	+3 36.7	1.701	2.675	4.9	20.9	11 7	2 33.02	+25 8.2	1.213	2.196	4.3	19.2
11 17	2 24.61	+3 9.1	1.730	2.671	8.1	21.1	11 17	2 22.44	+24 36.5	1.243	2.209	7.4	19.4
11 27	2 17.05	+2 57.7	1.786	2.666	11.7	21.3	11 27	2 14.13	+23 58.9	1.299	2.222	11.7	19.7
12 7	2 11.63	+3 3.9	1.864	2.661	14.9	21.5	12 7	2 8.99	+23 23.8	1.377	2.236	15.8	20.0
<b>179050</b>	2001 <i>SR</i> <sub>21</sub>		11 3.8 17°95'	2.9/1.7	18		<b>514928</b>	2008 <i>US</i> <sub>185</sub>		11 3.8 69°43'	2.5/2.6	18	
9 28	2 58.80	+11 42.3	1.594	2.441	15.6	19.4	9 28	3 7.99	+8 43.6	1.621	2.453	16.1	20.6
10 8	2 55.36	+10 43.4	1.529	2.445	11.9	19.2	10 8	3 2.33	+8 45.7	1.557	2.463	12.3	20.4
10 18	2 49.53	+9 36.2	1.487	2.450	7.7	19.0	10 18	2 54.05	+8 45.6	1.515	2.473	8.0	20.1
10 28	2 42.07	+8 26.4	1.469	2.455	3.7	18.7	10 28	2 43.95	+8 46.2	1.498	2.483	3.8	19.9
11 7	2 34.03	+7 21.0	1.479	2.461	3.9	18.8	11 7	2 33.21	+8 50.8	1.509	2.494	3.3	19.9
11 17	2 26.53	+6 26.9	1.515	2.468	7.8	19.0	11 17	2 23.07	+9 2.1	1.548	2.504	7.4	20.2
11 27	2 20.59	+5 49.5	1.576	2.475	11.8	19.3	11 27	2 14.70	+9 22.7	1.614	2.515	11.5	20.4
12 7	2 16.89	+5 31.3	1.660	2.483	15.3	19.5	12 7	2 8.85	+9 53.7	1.703	2.525	15.0	20.7
<b>79373</b>	1997 <i>EE</i> <sub>42</sub>		11 3.8 182°90'	0.5/4.2	18		<b>37073</b>	2000 <i>UH</i> <sub>53</sub>		11 3.8 243°78'	0.5/4.2	18	
9 28	3 6.19	+18 55.8	1.946	2.753	14.7	21.2	9 28	3 1.30	+18 29.4	2.205	3.015	13.1	19.8
10 8	3 0.76	+18 33.7	1.863	2.754	11.5	21.0	10 8	2 56.81	+18 14.8	2.119	3.011	10.2	19.6
10 18	2 52.97	+17 59.6	1.802	2.754	7.6	20.7	10 18	2 50.31	+17 50.3	2.055	3.007	6.7	19.4
10 28	2 43.50	+17 15.2	1.768	2.754	3.3	20.5	10 28	2 42.40	+17 17.4	2.018	3.003	2.9	19.1
11 7	2 33.37	+16 24.3	1.763	2.753	1.4	20.3	11 7	2 33.90	+16 39.1	2.009	2.999	1.2	19.0
11 17	2 23.67	+15 31.9	1.787	2.751	5.7	20.6	11 17	2 25.72	+15 59.4	2.030	2.995	5.1	19.2
11 27	2 15.47	+14 44.3	1.840	2.748	9.8	20.9	11 27	2 18.74	+15 23.1	2.080	2.990	8.7	19.5
12 7	2 9.48	+14 6.4	1.917	2.745	13.4	21.1	12 7	2 13.62	+14 54.4	2.154	2.986	11.9	19.7
<b>146736</b>	2001 <i>XS</i> <sub>71</sub>		11 3.8 297°32'	0.3/3.6	18		<b>365364</b>	2009 <i>TM</i> <sub>13</sub>		11 3.8 105°75'	0.7/3.1	18	
9 28	2 58.99	+18 43.4	1.938	2.760	14.3	19.6	9 28	2 59.39	+16 14.7	2.306	3.123	12.4	21.1
10 8	2 55.36	+17 50.2	1.845	2.745	11.0	19.4	10 8	2 55.11	+15 28.8	2.231	3.130	9.5	20.9
10 18	2 49.53	+16 42.6	1.773	2.730	7.2	19.2	10 18	2 49.07	+14 33.8	2.179	3.136	6.1	20.7
10 28	2 42.11	+15 23.4	1.728	2.715	3.0	18.9	10 28	2 41.84	+13 32.8	2.155	3.142	2.5	20.5
11 7	2 34.00	+13 58.3	1.711	2.701	1.6	18.7	11 7	2 34.19	+12 30.3	2.160	3.149	1.6	20.5
11 17	2 26.20	+12 34.3	1.723	2.686	6.0	19.0	11 17	2 26.92	+11 31.1	2.195	3.155	5.2	20.7
11 27	2 19.70	+11 18.7	1.763	2.672	10.2	19.2	11 27	2 20.80	+10 40.0	2.259	3.161	8.6	21.0
12 7	2 15.23	+10 17.4	1.827	2.657	13.8	19.4	12 7	2 16.37	+10 0.6	2.347	3.166	11.5	21.2
<b>1958</b>	Chandra		11 3.8 81°23'	4.2/7.4	18		<b>423462</b>	2005 <i>SY</i> <sub>139</sub>		11 3.8 111°84'	1.2/4.5	17	
9 28	3 4.58	+29 7.7	2.298	3.062	14.0	16.2	9 28	3 8.45	+18 58.8	1.686	2.498	16.4	21.6
10 8	2 59.29	+29 31.4	2.226	3.078	11.4	16.1	10 8	3 2.73	+19 5.4	1.619	2.511	12.8	21.4
10 18	2 51.87	+29 40.3	2.176	3.094	8.5	15.9	10 18	2 54.33	+19 0.6	1.572	2.524	8.5	21.2
10 28	2 43.01	+29 33.2	2.151	3.110	5.7	15.8	10 28	2 44.08	+18 45.0	1.552	2.536	3.9	20.9
11 7	2 33.61	+29 10.9	2.154	3.127	4.2	15.7	11 7	2 33.16	+18 21.1	1.559	2.548	1.7	20.8
11 17	2 24.67	+28 36.3	2.186	3.143	5.5	15.8	11 17	2 22.85	+17 53.4	1.594	2.559	6.1	21.1
11 27	2 17.10	+27 54.7	2.247	3.158	8.1	16.0	11 27	2 14.34	+17 27.6	1.657	2.571	10.4	21.4
12 7	2 11.56	+27 11.8	2.333	3.174	10.8	16.2	12 7	2 8.40	+17 8.8	1.744	2.581	14.0	21.7
<b>236683</b>	Hujiangyao		11 3.8 50°40'	0.4/3.6	18		<b>141652</b>	2002 <i>JL</i> <sub>71</sub>		11 3.8 160°61'	3.5/1.4	18	
9 28	3 7.16	+14 15.0	1.535	2.365	16.9	19.9	9 28	3 6.17	+9 8.0	1.785	2.615	14.9	20.7
10 8	3 1.64	+14 21.7	1.486	2.391	12.9	19.7	10 8	3 0.72	+8 12.0	1.716	2.622	11.4	20.5
10 18	2 53.50	+14 20.7	1.459	2.417	8.3	19.5	10 18	2 52.90	+7 10.5	1.670	2.628	7.5	20.3
10 28	2 43.66	+14 14.0	1.457	2.444	3.4	19.3	10 28	2 43.46	+6 8.9	1.650	2.633	4.1	20.1
11 7	2 33.35	+14 4.8	1.482	2.471	1.8	19.2	11 7	2 33.45	+5 13.4	1.659	2.638	4.4	20.1
11 17	2 23.86	+13 57.0	1.535	2.498	6.5	19.6	11 17	2 23.98	+4 29.9	1.697	2.641	7.9	20.3
11 27	2 16.27	+13 54.6	1.614	2.526	10.7	19.9	11 27	2 16.09	+4 2.7	1.761	2.644	11.7	20.6
12 7	2 11.25	+14 0.7	1.716	2.553	14.3	20.2	12 7	2 10.46	+3 53.6	1.848	2.647	15.0	20.8
<b>168440</b>	1998 <i>WT</i> <sub>2</sub>		11 3.8 11°50'	0.8/3.4	18		<b>306407</b>	1996 <i>XO</i> <sub>6</sub>		11 3.8 329°63'	3.4/5.7	18	
9 28	3 3.94	+13 44.8	1.703	2.534	15.5	19.9	9 28	3 4.72	+23 8.3	1.551	2.364	17.6	19.8
10 8	2 59.30	+13 42.3	1.629	2.535	11.9	19.7	10 8	3 0.49	+23 35.8	1.469	2.358	14.1	19.6
10 18	2 52.14	+13 32.8	1.577	2.536	7.7	19.5	10 18	2 53.27	+23 48.7	1.407	2.353	9.9	19.3
10 28	2 43.20	+13 18.5	1.550	2.537	3.2	19.2	10 28	2 43.78	+23 45.6	1.369	2.347	5.6	19.1
11 7	2 33.52	+13 2.6	1.550	2.539	1.9	19.1	11 7	2 33.25	+23 27.3	1.357	2.342	3.4	18.9
11 17	2 24.30	+12 49.1	1.578	2.540	6.5	19.4	11 17	2 23.12	+22 57.8	1.371	2.337	6.7	19.1
11 27	2 16.66	+12 42.3	1.633	2.542	10.8	19.7	11 27	2 14.80	+22 23.8	1.411	2.333	11.1	19.4
12 7	2 11.38	+12 45.3	1.711	2.545	14.4	19.9	12 7	2 9.26	+21 52.6	1.474	2.329	15.2	19.6
<b>442268</b>	2011 <i>QL</i> <sub>45</sub>		11 3.8 71°88'	6.0/30.3	16		<b>79448</b>	1997 <i>WS</i> <sub>3</sub>		11 3.8 356°83'	4.5/1.4	18	
9 28	3 2.88	+3 46.3	1.671	2.514	15.								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>157075</b>	2003 UR <sub>280</sub>		11	3.8	73°52'	1.2°/ 2.9 18	<b>255241</b>	2005 UP <sub>459</sub>		11	3.9	313°40'	0.5°/ 4.2 18
9 28	3 2.64	+11 55.4	2.270	3.089	12.5	19.5	9 28	3 0.73	+18 18.9	1.973	2.792	14.2	20.8
10 8	2 57.62	+11 51.5	2.195	3.095	9.5	19.3	10 8	2 56.66	+18 7.3	1.886	2.783	11.0	20.6
10 18	2 50.73	+11 43.4	2.144	3.101	6.2	19.1	10 18	2 50.38	+17 45.2	1.820	2.775	7.3	20.3
10 28	2 42.54	+11 33.1	2.120	3.107	2.6	18.9	10 28	2 42.49	+17 13.9	1.780	2.766	3.2	20.1
11 7	2 33.86	+11 23.2	2.125	3.112	1.9	18.8	11 7	2 33.90	+16 36.7	1.769	2.758	1.3	19.9
11 17	2 25.55	+11 16.4	2.160	3.118	5.4	19.1	11 17	2 25.62	+15 57.9	1.785	2.750	5.5	20.2
11 27	2 18.42	+11 15.6	2.224	3.124	8.8	19.3	11 27	2 18.65	+15 22.9	1.829	2.743	9.5	20.4
12 7	2 13.07	+11 22.9	2.312	3.130	11.7	19.5	12 7	2 13.73	+14 56.1	1.898	2.736	13.1	20.6
<b>324320</b>	2006 GS <sub>48</sub>		11	3.8	194°63'	0.3°/ 3.5 18	<b>444015</b>	2004 DH <sub>54</sub>		11	3.9	275°66'	0.2°/ 3.9 18
9 28	2 58.50	+17 32.0	2.562	3.372	11.5	20.8	9 28	3 2.44	+17 26.0	1.911	2.730	14.5	21.6
10 8	2 54.33	+16 48.4	2.477	3.371	8.8	20.6	10 8	2 58.00	+17 12.4	1.827	2.725	11.3	21.4
10 18	2 48.53	+15 55.5	2.416	3.370	5.7	20.4	10 18	2 51.25	+16 48.5	1.765	2.720	7.4	21.1
10 28	2 41.62	+14 55.8	2.383	3.369	2.3	20.2	10 28	2 42.85	+16 16.1	1.728	2.715	3.1	20.9
11 7	2 34.29	+13 53.2	2.379	3.368	1.3	20.1	11 7	2 33.74	+15 38.5	1.720	2.710	1.4	20.7
11 17	2 27.27	+12 52.0	2.406	3.367	4.7	20.3	11 17	2 24.99	+15 0.4	1.740	2.705	5.8	21.0
11 27	2 21.25	+11 57.1	2.462	3.366	7.9	20.6	11 27	2 17.63	+14 27.1	1.788	2.700	9.9	21.3
12 7	2 16.78	+11 12.1	2.544	3.364	10.7	20.7	12 7	2 12.41	+14 3.1	1.860	2.694	13.4	21.5
<b>388511</b>	2007 EZ <sub>195</sub>		11	3.8	114°69'	1.0°/ 4.4 18	<b>141720</b>	2002 LS <sub>19</sub>		11	3.9	108°15'	1.6°/ 2.9 18
9 28	3 10.64	+16 55.3	1.771	2.581	15.9	21.0	9 28	3 8.92	+13 6.6	1.633	2.458	16.3	20.4
10 8	3 4.36	+17 24.7	1.699	2.591	12.3	20.8	10 8	3 2.91	+12 41.4	1.575	2.478	12.4	20.2
10 18	2 55.40	+17 46.1	1.649	2.601	8.2	20.5	10 18	2 54.32	+12 8.5	1.540	2.498	8.0	20.0
10 28	2 44.55	+17 59.4	1.626	2.610	3.7	20.3	10 28	2 44.04	+11 31.5	1.530	2.517	3.3	19.8
11 7	2 32.95	+18 5.5	1.631	2.620	1.6	20.2	11 7	2 33.27	+10 55.2	1.548	2.535	2.6	19.7
11 17	2 21.87	+18 7.1	1.665	2.629	6.0	20.5	11 17	2 23.23	+10 24.6	1.595	2.553	7.0	20.1
11 27	2 12.53	+18 8.3	1.727	2.638	10.2	20.7	11 27	2 15.03	+10 4.6	1.669	2.570	11.1	20.4
12 7	2 5.72	+18 13.2	1.813	2.646	13.8	21.0	12 7	2 9.35	+9 57.8	1.766	2.587	14.6	20.6
<b>175471</b>	2006 QA <sub>138</sub>		11	3.8	26°74'	0.8°/ 2.7 18	<b>476837</b>	2008 UD <sub>296</sub>		11	3.9	342°18'	1.3°/ 4.6 18
9 28	2 52.81	+12 35.4	4.214	5.027	7.3	20.2	9 28	3 0.50	+19 46.0	1.358	2.197	18.2	21.0
10 8	2 49.40	+12 11.7	4.130	5.028	5.5	20.0	10 8	2 57.46	+19 42.0	1.281	2.188	14.3	20.7
10 18	2 45.07	+11 44.8	4.073	5.029	3.5	19.9	10 18	2 51.39	+19 22.5	1.223	2.181	9.7	20.5
10 28	2 40.14	+11 16.3	4.044	5.031	1.5	19.7	10 28	2 43.03	+18 48.7	1.188	2.173	4.5	20.2
11 7	2 34.98	+10 48.3	4.046	5.032	1.3	19.7	11 7	2 33.66	+18 4.4	1.178	2.167	1.9	20.0
11 17	2 29.98	+10 22.5	4.079	5.033	3.3	19.9	11 17	2 24.75	+17 16.2	1.193	2.162	7.0	20.3
11 27	2 25.51	+10 0.9	4.141	5.035	5.3	20.0	11 27	2 17.73	+16 32.2	1.233	2.157	12.1	20.6
12 7	2 21.91	+9 45.1	4.231	5.036	7.0	20.2	12 7	2 13.55	+15 59.2	1.294	2.154	16.6	20.8
<b>142965</b>	2002 VA <sub>81</sub>		11	3.8	260°57'	5.6°/30.9 18	<b>91974</b>	1999 VG <sub>94</sub>		11	3.9	63°87'	1.1°/ 2.9 18
9 28	3 3.21	+0 31.0	2.036	2.867	13.3	19.7	9 28	2 59.35	+15 47.6	2.075	2.899	13.4	19.4
10 8	2 58.32	-0 9.4	1.956	2.856	10.5	19.5	10 8	2 55.27	+14 54.8	2.003	2.906	10.2	19.2
10 18	2 51.33	-0 47.3	1.899	2.846	7.6	19.3	10 18	2 49.26	+13 52.1	1.954	2.913	6.5	19.0
10 28	2 42.85	-1 17.5	1.869	2.836	5.7	19.2	10 28	2 41.96	+12 43.2	1.932	2.920	2.7	18.7
11 7	2 33.73	-1 35.0	1.867	2.825	6.3	19.2	11 7	2 34.20	+11 33.6	1.939	2.927	2.0	18.7
11 17	2 24.93	-1 36.3	1.892	2.814	8.9	19.3	11 17	2 26.88	+10 28.8	1.976	2.934	5.8	19.0
11 27	2 17.39	-1 19.3	1.943	2.803	11.9	19.5	11 27	2 20.82	+9 34.4	2.040	2.941	9.4	19.2
12 7	2 11.80	-0 44.7	2.017	2.792	14.7	19.7	12 7	2 16.60	+8 53.8	2.128	2.949	12.5	19.4
<b>327458</b>	2005 WJ <sub>178</sub>		11	3.8	5°06'	1.7°/ 4.9 18	<b>2205</b>	Glinka		11	3.9	56°72'	0.5°/ 4.3 18
9 28	2 58.89	+20 44.5	1.512	2.344	17.1	19.6	9 28	2 59.88	+20 38.3	1.996	2.809	14.2	16.7
10 8	2 55.81	+20 44.5	1.442	2.344	13.4	19.3	10 8	2 55.77	+19 55.1	1.925	2.819	11.0	16.6
10 18	2 50.06	+20 29.9	1.391	2.346	9.1	19.1	10 18	2 49.62	+18 58.3	1.877	2.830	7.3	16.4
10 28	2 42.39	+20 1.8	1.364	2.348	4.4	18.8	10 28	2 42.11	+17 50.8	1.856	2.841	3.2	16.1
11 7	2 33.94	+19 23.6	1.363	2.352	2.0	18.7	11 7	2 34.14	+16 37.5	1.863	2.852	1.3	16.0
11 17	2 26.01	+18 40.9	1.388	2.356	6.3	19.0	11 17	2 26.67	+15 24.4	1.899	2.864	5.3	16.3
11 27	2 19.77	+18 0.6	1.438	2.362	10.8	19.2	11 27	2 20.56	+14 17.9	1.963	2.875	9.1	16.6
12 7	2 16.05	+17 28.7	1.511	2.369	14.7	19.5	12 7	2 16.41	+13 23.1	2.051	2.887	12.3	16.8
<b>278621</b>	2008 QU <sub>22</sub>		11	3.8	261°71'	9.3°/13.3 17	<b>432837</b>	2011 HT <sub>36</sub>		11	3.9	69°26'	4.0°/ 1.6 18
9 28	3 7.25	+46 32.9	2.502	3.153	15.6	20.6	9 28	3 6.03	+7 3.2	1.527	2.368	16.5	20.6
10 8	3 2.04	+47 28.5	2.411	3.150	14.0	20.5	10 8	3 0.76	+6 27.2	1.478	2.388	12.6	20.4
10 18	2 54.09	+48 3.2	2.337	3.147	12.3	20.4	10 18	2 52.94	+5 49.3	1.449	2.408	8.3	20.2
10 28	2 44.09	+48 12.0	2.285	3.145	10.7	20.3	10 28	2 43.47	+5 14.9	1.446	2.428	4.6	20.0
11 7	2 33.13	+47 52.6	2.256	3.142	9.6	20.2	11 7	2 33.54	+4 49.4	1.470	2.448	4.9	20.1
11 17	2 22.53	+47 5.8	2.252	3.139	9.4	20.2	11 17	2 24.38	+4 37.1	1.521	2.468	8.4	20.4
11 27	2 13.55	+45 56.7	2.273	3.136	10.3	20.2	11 27	2 17.04	+4 40.8	1.598	2.488	12.2	20.6
12 7	2 7.10	+44 33.3	2.319	3.133	11.8	20.3	12 7	2 12.19	+5 0.8	1.696	2.508	15.6	20.9
<b>319160</b>	2005 YV <sub>77</sub>		11	3.8	135°85'	2.4°/ 1.8 18	<b>160455</b>	2005 WX <sub>81</sub>		11	3.9	0°82'	0.6°/ 4.3 18
9 28	3 1.20	+8 48.6	2.427	3.251	11.7	21.0	9 28	3 0.56	+18 27.9	1.810	2.633	15.0	20.1
10 8	2 56.37	+8 20.0	2.354	3.257	8.9	20.8	10 8	2 56.66	+18 18.5	1.732	2.632	11.7	19.9
10 18	2 49.84	+7 48.6	2.306	3.263	5.8	20.6	10 18	2 50.42	+17 58.0	1.676	2.632	7.7	19.7
10 28	2 42.16	+7 17.4	2.285	3.269	3.0	20.5	10 28	2 42.53	+17 27.8	1.646	2.631	3.4	19.4
11 7	2 34.07	+6 50.1	2.294	3.274	3.0	20.5	11 7	2 33.96	+16 51.5	1.642	2.632	1.4	19.3
11 17	2 26.33	+6 29.9	2.332	3.279	5.9	20.7	11 17	2 25.80	+16 13.7	1.667	2.633	5.8	19.6
11 27	2 19.68	+6 19.4	2.399	3.285	8.9	20.9	11 27	2 19.09	+15 40.0	1.718	2.634	9.9	19.8
12 7	2 14.64	+6 20.3	2.490	3.290	11.5	21.1	12 7	2 14.56	+15 15.0	1.793	2.636	13.5	20.1
<b>471847</b>	2012 XO <sub>139</sub>		11	3.8	26°96'	5.0°/ 6.8 18	<b>494863</b>	2008 ED <sub>112</sub>		11	3.9	128°46'	4.1°/



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>227335</b>	2005 <i>UY</i> <sub>3</sub>		11 3.9 308°59	3°5/ 1.6 18			<b>356044</b>	2009 <i>CZ</i> <sub>38</sub>		11 3.9 326°32	2°9/ 2.1 17		
9 28	3 0.47	+11 12.9	1.399	2.252	17.0	20.6	9 28	2 57.57	+12 18.6	1.340	2.199	17.3	20.8
10 8	2 57.26	+10 13.3	1.318	2.237	13.1	20.3	10 8	2 55.27	+11 33.1	1.253	2.175	13.4	20.5
10 18	2 51.18	+9 3.0	1.258	2.222	8.6	20.0	10 18	2 50.05	+10 35.7	1.185	2.151	8.8	20.1
10 28	2 42.95	+7 48.0	1.222	2.207	4.4	19.7	10 28	2 42.56	+9 31.7	1.141	2.128	4.1	19.8
11 7	2 33.74	+6 36.8	1.211	2.193	4.7	19.7	11 7	2 33.94	+8 28.7	1.121	2.106	4.0	19.7
11 17	2 24.92	+5 37.9	1.226	2.179	9.2	19.9	11 17	2 25.59	+7 35.3	1.127	2.086	9.0	20.0
11 27	2 17.83	+4 58.7	1.265	2.166	14.0	20.2	11 27	2 18.94	+6 59.2	1.155	2.066	14.1	20.2
12 7	2 13.40	+4 42.7	1.325	2.153	18.2	20.4	12 7	2 15.01	+6 45.1	1.204	2.048	18.6	20.4
<b>492364</b>	2014 <i>HQ</i> <sub>50</sub>		11 3.9 84°61	1°2/ 2.9 18			<b>343798</b>	2011 <i>GB</i> <sub>65</sub>		11 3.9 105°44	4°0/ 1.1 18		
9 28	3 2.18	+14 48.6	1.836	2.663	14.7	21.6	9 28	3 4.05	+7 51.6	1.688	2.526	15.3	20.8
10 8	2 57.67	+14 10.7	1.768	2.672	11.2	21.4	10 8	2 59.17	+6 55.7	1.627	2.537	11.7	20.6
10 18	2 50.93	+13 23.5	1.722	2.681	7.2	21.1	10 18	2 51.93	+5 55.9	1.589	2.548	7.7	20.4
10 28	2 42.69	+12 30.6	1.702	2.690	3.0	20.9	10 28	2 43.11	+4 58.1	1.577	2.558	4.5	20.2
11 7	2 33.92	+11 37.2	1.711	2.699	2.2	20.9	11 7	2 33.78	+4 8.6	1.593	2.569	4.9	20.3
11 17	2 25.66	+10 48.7	1.748	2.707	6.3	21.2	11 17	2 25.03	+3 33.0	1.636	2.579	8.3	20.5
11 27	2 18.87	+10 10.5	1.812	2.716	10.2	21.4	11 27	2 17.90	+3 14.9	1.705	2.589	12.0	20.7
12 7	2 14.21	+9 45.9	1.900	2.725	13.6	21.7	12 7	2 13.03	+3 15.5	1.796	2.598	15.2	21.0
<b>281757</b>	2009 <i>BK</i> <sub>98</sub>		11 3.9 119°97	3°7/31.3 18			<b>39771</b>	1997 <i>GH</i> <sub>21</sub>		11 3.9 103°02	0°0/ 3.7 18		
9 28	2 58.42	+2 50.0	2.789	3.615	10.3	21.0	9 28	3 3.62	+15 37.9	2.319	3.129	12.6	19.5
10 8	2 54.06	+2 14.0	2.717	3.618	7.9	20.8	10 8	2 58.35	+15 37.6	2.247	3.140	9.7	19.3
10 18	2 48.27	+1 38.9	2.671	3.620	5.6	20.7	10 18	2 51.21	+15 30.6	2.197	3.151	6.3	19.1
10 28	2 41.53	+1 8.1	2.652	3.623	3.9	20.6	10 28	2 42.79	+15 18.5	2.176	3.162	2.6	18.9
11 7	2 34.45	+0 45.0	2.663	3.626	4.3	20.6	11 7	2 33.91	+15 3.3	2.183	3.173	1.2	18.8
11 17	2 27.64	+0 32.2	2.702	3.628	6.3	20.7	11 17	2 25.42	+14 48.2	2.221	3.183	4.9	19.1
11 27	2 21.72	+0 31.6	2.770	3.631	8.7	20.9	11 27	2 18.13	+14 36.5	2.287	3.194	8.3	19.3
12 7	2 17.16	+0 43.6	2.861	3.633	10.9	21.1	12 7	2 12.64	+14 30.9	2.379	3.204	11.2	19.5
<b>446072</b>	2013 <i>CE</i> <sub>159</sub>		11 3.9 339°80	2°8/ 1.7 18			<b>493584</b>	2015 <i>LJ</i> <sub>37</sub>		11 3.9 187°03	2°6/ 2.3 18		
9 28	3 0.74	+10 17.0	1.916	2.751	13.9	21.2	9 28	3 5.97	+10 8.0	1.703	2.535	15.5	21.5
10 8	2 56.53	+9 29.7	1.842	2.751	10.6	21.0	10 8	3 0.84	+9 44.6	1.628	2.535	11.9	21.3
10 18	2 50.20	+8 36.5	1.790	2.750	6.9	20.8	10 18	2 53.17	+9 16.2	1.575	2.534	7.7	21.1
10 28	2 42.41	+7 42.0	1.765	2.750	3.5	20.6	10 28	2 43.69	+8 46.5	1.548	2.534	3.7	20.8
11 7	2 34.04	+6 51.6	1.768	2.749	3.6	20.6	11 7	2 33.49	+8 20.2	1.549	2.533	3.4	20.8
11 17	2 26.09	+6 10.4	1.799	2.749	7.1	20.8	11 17	2 23.76	+8 1.9	1.578	2.532	7.5	21.0
11 27	2 19.46	+5 43.0	1.857	2.749	10.7	21.0	11 27	2 15.63	+7 55.6	1.633	2.531	11.6	21.3
12 7	2 14.83	+5 31.5	1.938	2.748	13.9	21.2	12 7	2 9.88	+8 3.3	1.711	2.529	15.2	21.5
<b>70934</b>	1999 <i>VN</i> <sub>225</sub>		11 3.9 17°25	5°4/30.8 18			<b>472686</b>	2015 <i>EV</i> <sub>63</sub>		11 3.9 110°41	2°5/ 5.5 18		
9 28	2 56.96	+9 6.7	1.288	2.154	17.4	19.2	9 28	3 10.48	+22 35.0	1.915	2.704	15.6	21.5
10 8	2 54.38	+7 20.0	1.234	2.159	13.3	19.0	10 8	3 3.99	+22 52.2	1.850	2.726	12.3	21.3
10 18	2 49.10	+5 24.9	1.201	2.166	8.9	18.8	10 18	2 55.03	+22 56.4	1.806	2.747	8.5	21.2
10 28	2 41.98	+3 31.5	1.193	2.174	5.6	18.6	10 28	2 44.39	+22 47.2	1.789	2.767	4.5	21.0
11 7	2 34.26	+1 51.7	1.210	2.182	6.7	18.7	11 7	2 33.20	+22 26.4	1.801	2.787	2.6	20.9
11 17	2 27.21	+0 34.9	1.251	2.192	10.6	19.0	11 17	2 22.64	+21 57.7	1.842	2.806	5.6	21.1
11 27	2 21.97	+0 13.0	1.316	2.203	14.6	19.2	11 27	2 13.78	+21 26.7	1.912	2.824	9.3	21.4
12 7	2 19.23	+0 31.2	1.400	2.214	18.1	19.5	12 7	2 7.34	+20 58.9	2.007	2.842	12.6	21.6
<b>309029</b>	2006 <i>UP</i> <sub>154</sub>		11 3.9 37°83	2°4/ 5.7 18			<b>388576</b>	2007 <i>RN</i> <sub>69</sub>		11 3.9 103°75	8°9/27.2 18		
9 28	3 2.34	+24 0.3	1.895	2.695	15.3	20.9	9 28	3 0.94	-4 44.9	1.795	2.634	14.5	21.1
10 8	2 58.00	+23 53.1	1.814	2.697	12.2	20.7	10 8	2 56.66	-6 39.1	1.745	2.641	11.9	20.9
10 18	2 51.28	+23 30.6	1.755	2.698	8.5	20.5	10 18	2 50.24	-8 26.9	1.719	2.648	9.7	20.8
10 28	2 42.89	+22 53.1	1.721	2.700	4.6	20.2	10 28	2 42.40	-9 59.0	1.718	2.654	8.9	20.8
11 7	2 33.82	+22 3.7	1.715	2.702	2.5	20.1	11 7	2 34.10	-11 7.2	1.743	2.661	9.9	20.9
11 17	2 25.20	+21 7.1	1.737	2.703	5.5	20.3	11 17	2 26.33	-11 46.7	1.793	2.668	12.1	21.0
11 27	2 18.07	+20 10.2	1.786	2.705	9.4	20.5	11 27	2 19.98	-11 56.3	1.866	2.674	14.6	21.2
12 7	2 13.16	+19 19.2	1.860	2.707	12.9	20.8	12 7	2 15.68	-11 38.4	1.958	2.680	16.8	21.4
<b>112437</b>	2002 <i>OA</i> <sub>2</sub>		11 3.9 95°25	5°4/ 8.4 18			<b>220517</b>	2004 <i>ER</i> <sub>34</sub>		11 3.9 210°44	0°5/ 3.6 18		
9 28	3 4.27	+32 41.9	1.904	2.666	16.6	19.6	9 28	3 6.33	+15 40.1	1.854	2.672	15.0	20.9
10 8	2 59.60	+32 44.3	1.826	2.673	13.8	19.4	10 8	3 1.06	+15 23.3	1.769	2.667	11.6	20.7
10 18	2 52.37	+32 25.3	1.767	2.680	10.5	19.2	10 18	2 53.32	+14 57.0	1.705	2.661	7.6	20.4
10 28	2 43.34	+31 43.3	1.732	2.687	7.3	19.1	10 28	2 43.78	+14 23.4	1.668	2.655	3.1	20.1
11 7	2 33.64	+30 39.9	1.724	2.694	5.4	19.0	11 7	2 33.45	+13 46.1	1.659	2.648	1.7	20.0
11 17	2 24.51	+29 20.4	1.743	2.701	6.5	19.1	11 17	2 23.50	+13 10.1	1.679	2.641	6.3	20.3
11 27	2 17.06	+27 53.1	1.790	2.707	9.5	19.3	11 27	2 15.04	+12 40.5	1.727	2.633	10.5	20.6
12 7	2 12.06	+26 27.0	1.863	2.714	12.7	19.5	12 7	2 8.87	+12 21.7	1.798	2.624	14.2	20.8
<b>492165</b>	2013 <i>PY</i> <sub>44</sub>		11 3.9 153°27	5°3/ 9.4 17			<b>405266</b>	2003 <i>SV</i> <sub>322</sub>		11 3.9 358°69	5°0/ 7.5 17		
9 28	3 2.53	+35 27.1	2.689	3.414	13.1	22.0	9 28	3 2.24	+29 15.2	1.950	2.729	15.7	20.5
10 8	2 57.66	+35 40.7	2.600	3.417	11.1	21.8	10 8	2 58.09	+29 46.5	1.866	2.727	12.9	20.3
10 18	2 50.85	+35 37.9	2.531	3.420	8.8	21.7	10 18	2 51.47	+30 1.5	1.804	2.726	9.8	20.1
10 28	2 42.67	+35 16.8	2.488	3.423	6.6	21.6	10 28	2 43.03	+29 58.0	1.765	2.725	6.7	19.9
11 7	2 33.94	+34 38.0	2.472	3.425	5.3	21.5	11 7	2 33.79	+29 36.3	1.753	2.725	5.0	19.8
11 17	2 25.57	+33 44.1	2.484	3.428	5.8	21.5	11 17	2 24.91	+28 59.6	1.768	2.726	6.4	19.9
11 27	2 18.39	+32 40.1	2.525	3.430	7.7	21.6	11 27	2 17.52	+28 13.6	1.810	2.727	9.4	20.1
12 7	2 13.05	+31 32.2	2.593	3.432	9.9	21.8	12 7	2 12.44	+27 25.6	1.876	2.728	12.6	20.3
<b>442430</b>	2011 <i>UE</i> <sub>139</sub>		11 3.9 6°21	0°9/ 4.5 15			<b>219500</b>	2001 <i>FN</i> <sub>124</sub>		11 3.9 248°13	1°9/ 2.3 18		
9 28	3 2.3												

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11 3.9

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>514275</b>	2015 <i>RT</i> <sub>103</sub>		11 3.9 96°95	3°5/ 1.0	18		<b>114546</b>	2003 <i>BY</i> <sub>29</sub>		11 3.9 340°14	1°9/ 4.9	18	R
9 28	3 2.10	+ 8 24.4	1.974	2.807	13.6	21.3	9 28	3 0.74	+20 29.0	1.232	2.076	19.5	19.7
10 8	2 57.31	+ 7 21.3	1.916	2.824	10.3	21.1	10 8	2 58.01	+20 32.4	1.156	2.066	15.4	19.4
10 18	2 50.55	+ 6 14.4	1.882	2.840	6.8	20.9	10 18	2 51.98	+20 19.0	1.099	2.057	10.5	19.1
10 28	2 42.51	+ 5 9.0	1.875	2.856	3.9	20.8	10 28	2 43.41	+19 49.1	1.063	2.048	5.1	18.8
11 7	2 34.08	+ 4 10.9	1.896	2.871	4.3	20.9	11 7	2 33.67	+19 6.3	1.052	2.041	2.3	18.6
11 17	2 26.19	+ 3 25.3	1.946	2.887	7.4	21.1	11 17	2 24.39	+18 17.4	1.065	2.034	7.5	18.9
11 27	2 19.65	+ 2 55.7	2.023	2.902	10.6	21.3	11 27	2 17.19	+17 31.5	1.101	2.029	12.9	19.2
12 7	2 15.05	+ 2 43.4	2.123	2.917	13.5	21.5	12 7	2 13.10	+16 56.5	1.158	2.025	17.6	19.5
<b>268187</b>	2004 <i>YR</i> <sub>4</sub>		11 3.9 290°75	3°9/ 7.2	17		<b>336786</b>	2011 <i>CZ</i> <sub>21</sub>		11 3.9 5°37 27°2/	2.8	14	C
9 28	3 0.85	+28 59.2	2.269	3.041	14.0	20.6	9 28	2 53.61	-28 58.7	0.783	1.631	27.3	19.4
10 8	2 56.75	+29 0.5	2.166	3.025	11.5	20.4	10 8	2 53.44	-33 41.4	0.785	1.629	27.3	19.4
10 18	2 50.47	+28 45.7	2.084	3.008	8.5	20.2	10 18	2 49.21	-37 22.5	0.802	1.629	28.1	19.4
10 28	2 42.60	+28 13.8	2.028	2.992	5.6	20.0	10 28	2 42.18	-39 44.0	0.830	1.631	29.3	19.5
11 7	2 33.98	+27 26.0	1.999	2.976	3.9	19.8	11 7	2 34.31	-40 40.6	0.867	1.634	30.6	19.7
11 17	2 25.61	+26 26.0	1.998	2.959	5.5	19.9	11 17	2 27.54	-40 17.1	0.912	1.638	31.9	19.8
11 27	2 18.45	+25 19.6	2.026	2.943	8.6	20.1	11 27	2 23.45	-38 44.3	0.963	1.644	32.9	20.0
12 7	2 13.27	+24 13.6	2.080	2.927	11.7	20.2	12 7	2 22.81	-36 17.0	1.019	1.652	33.8	20.1
<b>172884</b>	2005 <i>ES</i> <sub>256</sub>		11 3.9 185°74	2°8/ 5.9	18		<b>254526</b>	2005 <i>EK</i> <sub>119</sub>		11 3.9 223°18	1°8/ 2.7	18	
9 28	3 6.42	+25 10.1	1.686	2.484	17.0	20.7	9 28	3 6.13	+13 14.6	1.737	2.563	15.4	20.7
10 8	3 1.47	+24 56.9	1.604	2.484	13.6	20.5	10 8	3 1.08	+12 39.9	1.651	2.555	11.9	20.4
10 18	2 53.73	+24 25.2	1.543	2.484	9.6	20.2	10 18	2 53.43	+11 56.0	1.588	2.546	7.8	20.2
10 28	2 43.97	+23 34.7	1.506	2.483	5.3	20.0	10 28	2 43.88	+11 6.5	1.550	2.537	3.3	19.9
11 7	2 33.40	+22 28.8	1.496	2.482	2.9	19.8	11 7	2 33.49	+10 16.7	1.540	2.526	2.8	19.8
11 17	2 23.35	+21 13.9	1.514	2.481	6.2	20.1	11 17	2 23.48	+ 9 32.3	1.559	2.516	7.2	20.1
11 27	2 15.08	+19 58.8	1.560	2.478	10.5	20.3	11 27	2 15.02	+ 8 59.2	1.604	2.504	11.6	20.3
12 7	2 9.44	+18 51.6	1.630	2.476	14.4	20.5	12 7	2 8.95	+ 8 41.3	1.673	2.492	15.4	20.5
<b>368474</b>	2003 <i>SM</i> <sub>199</sub>		11 3.9 52°65	3°1/ 5.4	18		<b>477343</b>	2009 <i>UD</i> <sub>27</sub>		11 3.9 10°35	2°0/ 2.6	18	
9 28	3 8.67	+22 18.5	1.156	1.987	21.3	20.1	9 28	2 59.01	+15 27.3	1.187	2.047	19.0	20.7
10 8	3 3.84	+22 38.4	1.108	2.008	16.7	19.9	10 8	2 56.38	+14 28.3	1.126	2.048	14.6	20.4
10 18	2 55.46	+22 39.6	1.078	2.029	11.5	19.7	10 18	2 50.66	+13 13.8	1.084	2.050	9.4	20.2
10 28	2 44.67	+22 21.7	1.069	2.051	6.0	19.5	10 28	2 42.76	+11 50.0	1.065	2.054	3.9	19.9
11 7	2 33.15	+21 48.1	1.086	2.073	3.2	19.4	11 7	2 34.05	+10 26.4	1.071	2.058	3.3	19.8
11 17	2 22.69	+21 5.6	1.127	2.096	7.4	19.7	11 17	2 26.03	+ 9 13.1	1.101	2.063	8.6	20.2
11 27	2 14.79	+20 23.4	1.193	2.119	12.4	20.1	11 27	2 20.05	+ 8 18.7	1.154	2.069	13.7	20.5
12 7	2 10.26	+19 49.5	1.280	2.142	16.6	20.4	12 7	2 16.94	+ 7 47.6	1.228	2.076	18.0	20.8
<b>489187</b>	2006 <i>HU</i> <sub>23</sub>		11 3.9 218°27	0°8/ 3.1	17		<b>219942</b>	2002 <i>GU</i> <sub>145</sub>		11 3.9 200°52	3°7/ 6.8	18	
9 28	2 59.80	+13 59.7	2.743	3.555	10.8	22.4	9 28	3 4.39	+27 3.2	2.358	3.129	13.5	20.3
10 8	2 55.27	+13 36.3	2.653	3.550	8.2	22.2	10 8	2 59.28	+27 28.2	2.269	3.128	11.0	20.1
10 18	2 49.17	+13 7.0	2.588	3.544	5.3	22.0	10 18	2 52.04	+27 40.3	2.201	3.127	8.1	20.0
10 28	2 41.97	+12 34.0	2.551	3.538	2.2	21.8	10 28	2 43.26	+27 38.4	2.160	3.125	5.2	19.8
11 7	2 34.32	+12 0.1	2.544	3.531	1.6	21.8	11 7	2 33.80	+27 22.7	2.147	3.124	3.7	19.7
11 17	2 26.91	+11 28.6	2.567	3.525	4.7	22.0	11 17	2 24.62	+26 55.9	2.163	3.122	5.3	19.8
11 27	2 20.42	+11 2.8	2.619	3.518	7.7	22.2	11 27	2 16.68	+26 22.3	2.208	3.120	8.2	20.0
12 7	2 15.38	+10 45.2	2.697	3.511	10.4	22.3	12 7	2 10.70	+25 47.5	2.279	3.119	11.1	20.1
<b>324799</b>	2007 <i>HD</i> <sub>29</sub>		11 3.9 107°28	1°7/ 2.4	18		<b>294666</b>	2008 <i>AX</i> <sub>87</sub>		11 3.9 82°83	1°7/ 5.2	18	
9 28	3 2.25	+10 26.8	2.602	3.418	11.2	20.9	9 28	3 3.06	+22 15.8	1.927	2.731	15.0	20.9
10 8	2 57.01	+10 7.6	2.537	3.436	8.5	20.8	10 8	2 58.40	+22 3.5	1.855	2.742	11.7	20.7
10 18	2 50.19	+ 9 45.1	2.497	3.453	5.5	20.6	10 18	2 51.47	+21 37.5	1.805	2.752	8.0	20.5
10 28	2 42.35	+ 9 21.8	2.484	3.470	2.5	20.5	10 28	2 42.99	+20 58.7	1.780	2.762	4.0	20.3
11 7	2 34.18	+ 9 0.6	2.502	3.486	2.3	20.5	11 7	2 33.96	+20 10.6	1.784	2.772	1.9	20.2
11 17	2 26.40	+ 8 44.3	2.551	3.502	5.1	20.7	11 17	2 25.43	+19 18.1	1.816	2.782	5.3	20.5
11 27	2 19.67	+ 8 35.4	2.628	3.518	8.0	20.9	11 27	2 18.39	+18 27.2	1.876	2.792	9.2	20.7
12 7	2 14.49	+ 8 35.4	2.730	3.534	10.5	21.1	12 7	2 13.50	+17 43.7	1.960	2.802	12.5	20.9
<b>315860</b>	2008 <i>HN</i> <sub>47</sub>		11 3.9 82°51	4°8/30.8	18		<b>152338</b>	2005 <i>UK</i> <sub>61</sub>		11 3.9 21°45	5°6/31.8	18	
9 28	2 59.94	+ 3 20.2	2.129	2.964	12.6	20.6	9 28	3 5.84	- 0 54.8	1.991	2.818	13.7	19.7
10 8	2 55.60	+ 2 18.0	2.067	2.973	9.8	20.5	10 8	3 0.29	- 1 9.5	1.922	2.819	10.9	19.6
10 18	2 49.44	+ 1 15.9	2.029	2.981	6.9	20.3	10 18	2 52.61	- 1 18.8	1.876	2.821	7.9	19.4
10 28	2 42.08	+ 0 19.5	2.019	2.989	5.0	20.2	10 28	2 43.45	- 1 18.4	1.856	2.823	5.8	19.3
11 7	2 34.31	- 0 26.0	2.036	2.998	5.6	20.3	11 7	2 33.75	- 1 4.8	1.864	2.824	6.1	19.3
11 17	2 26.96	- 0 56.5	2.082	3.006	8.0	20.4	11 17	2 24.50	- 0 36.0	1.901	2.827	8.6	19.4
11 27	2 20.81	- 1 9.3	2.153	3.014	10.9	20.6	11 27	2 16.62	+ 0 8.5	1.964	2.829	11.6	19.6
12 7	2 16.41	- 1 4.4	2.248	3.023	13.4	20.8	12 7	2 10.78	+ 1 7.0	2.051	2.831	14.3	19.8
<b>324097</b>	2005 <i>WX</i> <sub>162</sub>		11 3.9 28°99	7°6/29.5	18		<b>408976</b>	2002 <i>QQ</i> <sub>110</sub>		11 3.9 36°03	1°8/ 2.4	16	
9 28	3 2.14	- 6 0.7	2.039	2.867	13.4	19.8	9 28	2 59.33	+12 8.7	2.087	2.918	13.0	21.3
10 8	2 57.37	- 6 49.4	1.980	2.870	11.0	19.7	10 8	2 55.27	+11 32.7	2.018	2.924	9.9	21.1
10 18	2 50.63	- 7 30.2	1.944	2.873	8.8	19.5	10 18	2 49.32	+10 50.7	1.971	2.931	6.4	20.9
10 28	2 42.58	- 7 56.9	1.933	2.876	7.6	19.5	10 28	2 42.08	+10 6.1	1.952	2.938	2.8	20.7
11 7	2 34.08	- 8 4.8	1.949	2.879	8.2	19.5	11 7	2 34.38	+ 9 23.5	1.961	2.946	2.6	20.7
11 17	2 26.02	- 7 51.4	1.991	2.883	10.2	19.6	11 17	2 27.08	+ 8 47.1	1.998	2.953	6.0	20.9
11 27	2 19.26	- 7 16.6	2.057	2.887	12.6	19.8	11 27	2 21.01	+ 8 21.0	2.063	2.961	9.5	21.2
12 7	2 14.39	- 6 22.5	2.146	2.891	14.9	20.0	12 7	2 16.74	+ 8 7.6	2.152	2.970	12.5	21.4
<b>408588</b>	2013 <i>LZ</i> <sub>24</sub>		11 3.9 51°43	4°9/30.6	18		<b>51438</b>	2001 <i>FP</i> <sub>21</sub>		11 3.9 96°65			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>11579</b>	Tsujitsuka		11 3.9 87°26'	2.6/ 1.8	18 R		<b>436489</b>	2011 EF <sub>36</sub>		11 3.9 233°11'	2.6/ 5.4	18	
9 28	3 3.14	+13 15.2	1.771	2.602	15.0	17.9	9 28	3 7.93	+22 14.6	1.760	2.562	16.3	21.5
10 8	2 58.29	+11 54.6	1.716	2.623	11.3	17.7	10 8	3 2.71	+22 33.9	1.671	2.554	13.0	21.3
10 18	2 51.27	+10 25.0	1.684	2.644	7.2	17.5	10 18	2 54.68	+22 40.3	1.602	2.546	9.1	21.1
10 28	2 42.86	+ 8 52.5	1.680	2.665	3.4	17.3	10 28	2 44.51	+22 32.7	1.558	2.538	4.9	20.8
11 7	2 34.08	+ 7 24.6	1.703	2.686	3.5	17.3	11 7	2 33.34	+22 12.2	1.542	2.529	2.7	20.6
11 17	2 25.96	+ 6 8.6	1.756	2.706	7.2	17.6	11 17	2 22.48	+21 42.3	1.554	2.520	6.2	20.8
11 27	2 19.41	+ 5 9.8	1.836	2.726	10.9	17.9	11 27	2 13.27	+21 9.2	1.594	2.510	10.5	21.1
12 7	2 14.99	+ 4 31.0	1.939	2.745	14.1	18.1	12 7	2 6.63	+20 39.5	1.657	2.500	14.4	21.3
<b>357903</b>	2005 VP <sub>65</sub>		11 3.9 117°03'	1.5/ 2.7	18		<b>365337</b>	2009 SM <sub>217</sub>		11 3.9 88°82'	1.3/ 2.8	18	
9 28	3 1.66	+12 42.7	2.173	2.995	12.9	21.8	9 28	2 59.64	+14 35.4	2.216	3.038	12.7	21.2
10 8	2 57.00	+12 15.3	2.098	3.001	9.8	21.6	10 8	2 55.44	+13 48.2	2.142	3.044	9.7	21.0
10 18	2 50.43	+11 41.7	2.048	3.006	6.3	21.4	10 18	2 49.41	+12 52.9	2.092	3.050	6.2	20.8
10 28	2 42.55	+11 5.0	2.024	3.011	2.7	21.2	10 28	2 42.15	+11 52.8	2.069	3.056	2.6	20.6
11 7	2 34.19	+10 29.0	2.029	3.016	2.2	21.2	11 7	2 34.45	+10 52.6	2.075	3.062	2.1	20.6
11 17	2 26.21	+ 9 57.7	2.064	3.021	5.7	21.4	11 17	2 27.14	+ 9 57.4	2.111	3.068	5.6	20.8
11 27	2 19.44	+ 9 35.0	2.127	3.025	9.2	21.7	11 27	2 21.01	+ 9 11.7	2.174	3.074	9.0	21.0
12 7	2 14.50	+ 9 23.4	2.214	3.030	12.2	21.9	12 7	2 16.61	+ 8 38.8	2.263	3.079	12.0	21.2
<b>519830</b>	2013 JG <sub>67</sub>		11 3.9 96°62'	5.6/30.1	18		<b>103217</b>	1999 YK <sub>1</sub>		11 3.9 4°02'	11.3/ 4.4	18	
9 28	3 0.19	- 0 27.9	2.292	3.123	12.0	21.8	9 28	3 24.71	-13 6.5	0.961	1.790	24.8	17.2
10 8	2 55.67	- 1 25.3	2.233	3.131	9.5	21.6	10 8	3 17.03	-11 55.3	0.900	1.787	20.9	17.0
10 18	2 49.46	- 2 19.7	2.197	3.139	7.0	21.5	10 18	3 4.64	-10 7.8	0.855	1.787	16.4	16.7
10 28	2 42.12	- 3 5.8	2.188	3.148	5.6	21.4	10 28	2 48.73	- 7 36.1	0.831	1.789	12.4	16.5
11 7	2 34.40	- 3 38.9	2.207	3.156	6.2	21.5	11 7	2 31.51	- 4 21.8	0.833	1.793	11.5	16.5
11 17	2 27.08	- 3 55.7	2.254	3.163	8.3	21.6	11 17	2 15.49	- 0 37.9	0.861	1.800	14.3	16.7
11 27	2 20.88	- 3 54.7	2.327	3.171	10.8	21.8	11 27	2 2.84	+ 3 18.1	0.914	1.808	18.7	17.0
12 7	2 16.32	- 3 36.3	2.422	3.179	13.1	22.0	12 7	1 54.71	+ 7 10.6	0.990	1.818	22.9	17.3
<b>428541</b>	2008 CT <sub>16</sub>		11 3.9 183°21'	3.1/ 5.9	17		<b>447396</b>	2006 BH <sub>112</sub>		11 3.9 298°37'	6.5/29.5	18	
9 28	3 8.16	+24 56.6	1.830	2.619	16.2	22.1	9 28	2 59.60	- 1 39.3	2.113	2.948	12.7	21.4
10 8	3 2.67	+25 3.2	1.746	2.620	13.0	21.9	10 8	2 55.55	- 2 42.7	2.038	2.938	10.2	21.2
10 18	2 54.49	+24 54.0	1.683	2.620	9.2	21.6	10 18	2 49.58	- 3 43.2	1.986	2.927	7.8	21.1
10 28	2 44.35	+24 28.0	1.645	2.620	5.3	21.4	10 28	2 42.27	- 4 34.5	1.960	2.916	6.5	21.0
11 7	2 33.37	+23 47.2	1.635	2.619	3.2	21.3	11 7	2 34.39	- 5 10.8	1.962	2.905	7.3	21.0
11 17	2 22.85	+22 56.0	1.653	2.617	6.0	21.5	11 17	2 26.82	- 5 28.1	1.990	2.895	9.5	21.1
11 27	2 14.01	+22 1.6	1.699	2.615	10.0	21.7	11 27	2 20.39	- 5 24.4	2.043	2.884	12.2	21.3
12 7	2 7.68	+21 11.1	1.770	2.612	13.6	21.9	12 7	2 15.74	- 5 0.1	2.118	2.874	14.7	21.4
<b>287234</b>	2002 TR <sub>35</sub>		11 3.9 36°13'	1.1/ 3.1	18		<b>80459</b>	2000 AV <sub>10</sub>		11 3.9 32°08'	5.3/ 6.8	18	
9 28	3 1.29	+15 12.8	1.556	2.395	16.3	20.0	9 28	3 4.97	+26 56.5	1.187	2.009	21.4	18.6
10 8	2 57.38	+14 37.4	1.494	2.404	12.5	19.8	10 8	3 1.33	+27 27.3	1.129	2.019	17.3	18.4
10 18	2 50.96	+13 51.3	1.453	2.415	8.0	19.6	10 18	2 54.11	+27 35.4	1.088	2.029	12.6	18.2
10 28	2 42.82	+12 58.6	1.437	2.425	3.3	19.3	10 28	2 44.29	+27 18.2	1.068	2.041	7.9	18.0
11 7	2 34.10	+12 5.0	1.448	2.436	2.3	19.3	11 7	2 33.51	+26 37.6	1.072	2.054	5.3	17.8
11 17	2 25.97	+11 17.0	1.486	2.448	6.9	19.6	11 17	2 23.56	+25 40.5	1.100	2.067	7.9	18.0
11 27	2 19.53	+10 40.3	1.550	2.460	11.2	19.9	11 27	2 16.07	+24 37.4	1.152	2.081	12.4	18.3
12 7	2 15.47	+10 18.6	1.636	2.473	14.9	20.2	12 7	2 11.95	+23 39.1	1.225	2.095	16.6	18.6
<b>521928</b>	2015 UK <sub>89</sub>		11 3.9 319°27'	6.9/28.8	17		<b>244122</b>	2001 VV <sub>40</sub>		11 3.9 318°75'	2.5/ 2.4	18	
9 28	2 56.89	+ 1 41.9	1.767	2.618	14.1	20.7	9 28	3 2.58	+ 9 32.1	1.831	2.666	14.4	20.4
10 8	2 53.95	+ 0 6.4	1.683	2.595	11.2	20.5	10 8	2 58.22	+ 9 17.1	1.748	2.657	11.1	20.1
10 18	2 48.79	- 1 31.8	1.622	2.572	8.4	20.3	10 18	2 51.52	+ 8 58.3	1.688	2.648	7.3	19.9
10 28	2 42.00	- 3 4.3	1.587	2.550	6.9	20.1	10 28	2 43.13	+ 8 39.1	1.654	2.639	3.5	19.6
11 7	2 34.45	- 4 22.1	1.578	2.528	8.1	20.2	11 7	2 34.00	+ 8 23.3	1.647	2.631	3.3	19.6
11 17	2 27.15	- 5 17.9	1.594	2.507	10.9	20.3	11 17	2 25.19	+ 8 14.9	1.668	2.623	7.0	19.8
11 27	2 21.12	- 5 47.0	1.635	2.486	14.2	20.5	11 27	2 17.76	+ 8 17.2	1.716	2.615	11.0	20.0
12 7	2 17.12	- 5 48.9	1.695	2.466	17.3	20.6	12 7	2 12.48	+ 8 32.2	1.787	2.608	14.5	20.3
<b>313311</b>	2002 EG <sub>21</sub>		11 3.9 200°88'	3.3/31.9	18		<b>138186</b>	2000 EB <sub>115</sub>		11 3.9 149°28'	1.7/ 2.5	18	
9 28	3 1.35	+ 5 17.3	2.679	3.500	10.8	21.3	9 28	3 2.27	+12 53.8	2.150	2.971	13.0	20.6
10 8	2 56.43	+ 4 42.9	2.597	3.496	8.3	21.2	10 8	2 57.49	+12 11.8	2.075	2.977	9.9	20.4
10 18	2 49.93	+ 4 7.6	2.540	3.492	5.6	21.0	10 18	2 50.77	+11 22.8	2.025	2.982	6.4	20.2
10 28	2 42.34	+ 3 34.8	2.511	3.488	3.5	20.8	10 28	2 42.73	+10 30.3	2.001	2.988	2.8	20.0
11 7	2 34.32	+ 3 8.1	2.512	3.483	3.8	20.9	11 7	2 34.22	+ 9 38.9	2.007	2.992	2.5	20.0
11 17	2 26.56	+ 2 50.4	2.543	3.477	6.2	21.0	11 17	2 26.11	+ 8 53.3	2.042	2.997	6.0	20.2
11 27	2 19.75	+ 2 44.1	2.602	3.472	8.9	21.2	11 27	2 19.24	+ 8 18.0	2.106	3.001	9.5	20.4
12 7	2 14.41	+ 2 50.2	2.685	3.466	11.3	21.3	12 7	2 14.22	+ 7 55.7	2.193	3.004	12.5	20.6
<b>25969</b>	2001 FM <sub>33</sub>		11 3.9 151°90'	5.0/30.4	18		<b>411101</b>	2009 WU <sub>37</sub>		11 3.9 43°67'	6.8/ 1.2	17	
9 28	3 1.93	+ 3 27.9	2.162	2.992	12.6	19.2	9 28	3 10.81	- 5 20.6	1.844	2.660	15.1	19.9
10 8	2 57.12	+ 2 9.7	2.097	3.000	9.8	19.0	10 8	3 3.92	- 5 17.9	1.797	2.684	12.0	19.7
10 18	2 50.46	+ 0 50.7	2.057	3.006	7.0	18.9	10 18	2 54.81	- 5 5.0	1.774	2.708	9.1	19.6
10 28	2 42.56	- 0 23.0	2.044	3.013	5.1	18.8	10 28	2 44.34	- 4 37.8	1.776	2.732	7.0	19.6
11 7	2 34.25	- 1 25.3	2.060	3.018	5.8	18.8	11 7	2 33.55	- 3 54.0	1.807	2.757	7.2	19.6
11 17	2 26.36	- 2 11.4	2.105	3.024	8.3	19.0	11 17	2 23.52	- 2 53.8	1.866	2.782	9.4	19.8
11 27	2 19.68	- 2 38.3	2.176	3.028	11.1	19.2	11 27	2 15.18	- 1 38.8	1.952	2.807	12.1	20.0
12 7	2 14.78	- 2 45.5	2.270	3.033	13.7	19.4	12 7	2 9.11	- 0 12.4	2.062	2.833	14.6	20.3
<b>50938</b>	2000 GR <sub>69</sub>		11 3.9 264°16'	0.5/ 4.2	18		<b>242377</b>	2004 DY <sub>35</sub>		11 3.9 130°72'	2.4/ 2.0	16	
9 28	3 3.66	+17 33.8	1.949	2.764	14.4</								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>95541</b>	2002 <i>EK</i> <sub>86</sub>		11	3.9 155°87	0°2/ 3.7 18		<b>331670</b>	2002 <i>PF</i> <sub>178</sub>		11	3.9 109°52	2°2/ 5.5 18	
9 28	3 1.65	+16 8.6	2.554	3.361	11.6	20.7	9 28	3 6.19	+23 58.1	1.565	2.372	17.7	21.2
10 8	2 56.78	+15 50.6	2.473	3.366	8.9	20.5	10 8	3 1.33	+23 35.6	1.496	2.383	14.0	21.0
10 18	2 50.22	+15 25.4	2.417	3.370	5.8	20.3	10 18	2 53.66	+22 54.2	1.448	2.394	9.6	20.7
10 28	2 42.50	+14 54.9	2.388	3.375	2.4	20.1	10 28	2 44.04	+21 55.2	1.424	2.404	4.9	20.5
11 7	2 34.35	+14 21.7	2.389	3.379	1.2	20.0	11 7	2 33.74	+20 43.1	1.427	2.415	2.4	20.3
11 17	2 26.51	+13 49.4	2.421	3.382	4.6	20.3	11 17	2 24.14	+19 25.4	1.457	2.424	6.3	20.6
11 27	2 19.72	+13 21.5	2.482	3.386	7.8	20.5	11 27	2 16.44	+18 11.0	1.515	2.434	10.7	20.9
12 7	2 14.53	+13 1.0	2.568	3.389	10.6	20.7	12 7	2 11.42	+17 7.7	1.596	2.443	14.6	21.2
<b>29702</b>	1998 <i>YY</i> <sub>6</sub>		11	3.9 208°38	0°4/ 4.3 18		<b>90421</b>	2003 <i>YD</i> <sub>139</sub>		11	3.9 330°11	6°0/ 8.6 18	
9 28	3 2.06	+19 16.7	2.110	2.919	13.7	19.5	9 28	3 0.38	+32 46.1	1.601	2.383	18.5	18.9
10 8	2 57.54	+18 49.2	2.024	2.916	10.6	19.3	10 8	2 57.37	+32 48.8	1.511	2.371	15.5	18.6
10 18	2 50.93	+18 9.9	1.961	2.914	7.0	19.1	10 18	2 51.41	+32 26.4	1.440	2.360	11.9	18.4
10 28	2 42.86	+17 20.9	1.925	2.911	3.1	18.9	10 28	2 43.24	+31 36.2	1.391	2.350	8.3	18.1
11 7	2 34.18	+16 25.8	1.918	2.908	1.2	18.7	11 7	2 34.07	+30 19.4	1.367	2.340	6.1	18.0
11 17	2 25.87	+15 29.7	1.940	2.904	5.3	19.0	11 17	2 25.35	+28 42.2	1.369	2.331	7.4	18.1
11 27	2 18.83	+14 38.2	1.990	2.901	9.1	19.2	11 27	2 18.44	+26 55.0	1.397	2.322	10.9	18.2
12 7	2 13.74	+13 56.1	2.065	2.897	12.4	19.4	12 7	2 14.28	+25 9.5	1.448	2.314	14.7	18.5
<b>69553</b>	1997 <i>QS</i> <sub>2</sub>		11	3.9 327°64	1°9/ 2.6 18		<b>494024</b>	2016 <i>AY</i> <sub>171</sub>		11	3.9 344°70	9°8/ 27.5 18	
9 28	3 0.56	+10 53.5	1.920	2.754	13.9	18.3	9 28	2 58.54	- 8 32.1	1.764	2.602	14.7	20.0
10 8	2 56.62	+10 39.4	1.833	2.741	10.7	18.1	10 8	2 55.10	- 9 48.7	1.702	2.593	12.4	19.9
10 18	2 50.48	+10 20.4	1.768	2.728	7.0	17.8	10 18	2 49.46	-10 55.6	1.662	2.584	10.5	19.7
10 28	2 42.72	+ 9 59.6	1.730	2.716	3.1	17.6	10 28	2 42.29	-11 44.2	1.646	2.576	9.8	19.7
11 7	2 34.23	+ 9 40.8	1.719	2.705	2.7	17.5	11 7	2 34.52	-12 7.8	1.655	2.569	10.6	19.7
11 17	2 26.01	+ 9 27.6	1.736	2.693	6.6	17.7	11 17	2 27.16	-12 2.8	1.686	2.562	12.7	19.8
11 27	2 19.06	+ 9 23.8	1.780	2.683	10.5	18.0	11 27	2 21.15	-11 28.8	1.740	2.557	15.1	20.0
12 7	2 14.12	+ 9 31.8	1.847	2.672	13.9	18.2	12 7	2 17.20	-10 28.8	1.813	2.552	17.4	20.1
<b>76257</b>	2000 <i>EA</i> <sub>97</sub>		11	3.9 252°60	4°1/ 6.8 18		<b>170496</b>	2003 <i>VK</i> <sub>8</sub>		11	3.9 124°69	3°4/ 2.0 18	
9 28	3 6.17	+27 34.5	2.215	2.985	14.3	19.4	9 28	3 7.65	+ 5 52.4	1.922	2.747	14.2	19.9
10 8	3 1.00	+28 0.3	2.112	2.970	11.7	19.2	10 8	3 1.80	+ 5 43.6	1.852	2.754	11.0	19.7
10 18	2 53.41	+28 12.6	2.030	2.954	8.7	19.0	10 18	2 53.69	+ 5 34.8	1.806	2.761	7.3	19.5
10 28	2 43.99	+28 9.1	1.973	2.938	5.7	18.8	10 28	2 44.02	+ 5 29.3	1.786	2.767	4.1	19.3
11 7	2 33.64	+27 49.9	1.944	2.921	4.1	18.6	11 7	2 33.78	+ 5 30.5	1.795	2.773	4.0	19.4
11 17	2 23.47	+27 17.3	1.945	2.904	5.8	18.7	11 17	2 24.02	+ 5 41.0	1.833	2.780	7.3	19.6
11 27	2 14.58	+26 36.4	1.974	2.886	9.0	18.9	11 27	2 15.72	+ 6 2.6	1.899	2.786	10.8	19.8
12 7	2 7.83	+25 53.5	2.028	2.868	12.2	19.1	12 7	2 9.59	+ 6 35.9	1.988	2.791	13.9	20.0
<b>481700</b>	2008 <i>BL</i> <sub>34</sub>		11	3.9 274°63	4°7/ 31.1 18		<b>457464</b>	2008 <i>UA</i> <sub>207</sub>		11	3.9 306°87	2°4/ 5.7 17	
9 28	3 0.35	+ 5 14.8	2.021	2.858	13.2	21.6	9 28	3 3.02	+22 54.0	2.363	3.152	13.0	21.7
10 8	2 56.28	+ 4 10.0	1.935	2.843	10.2	21.4	10 8	2 58.22	+23 14.7	2.272	3.148	10.3	21.5
10 18	2 50.17	+ 3 2.1	1.874	2.828	7.1	21.1	10 18	2 51.40	+23 25.1	2.205	3.144	7.3	21.3
10 28	2 42.56	+ 1 56.7	1.839	2.814	4.8	21.0	10 28	2 43.11	+23 24.8	2.163	3.140	4.1	21.1
11 7	2 34.31	+ 1 0.1	1.832	2.799	5.5	21.0	11 7	2 34.16	+23 14.6	2.151	3.136	2.5	21.0
11 17	2 26.34	+ 0 17.7	1.853	2.784	8.4	21.1	11 17	2 25.46	+22 57.0	2.168	3.132	4.8	21.2
11 27	2 19.56	- 0 6.3	1.899	2.768	11.7	21.3	11 27	2 17.91	+22 35.8	2.213	3.128	8.1	21.4
12 7	2 14.66	- 0 10.6	1.969	2.753	14.7	21.5	12 7	2 12.21	+22 15.6	2.285	3.124	11.1	21.6
<b>233300</b>	2006 <i>BS</i> <sub>29</sub>		11	3.9 355°79	4°3/ 6.5 18		<b>486632</b>	2013 <i>MH</i> <sub>2</sub>		11	3.9 159°65	5°2/ 30.2 18	
9 28	3 4.77	+25 47.6	1.494	2.302	18.4	20.9	9 28	3 0.44	- 0 1.0	2.467	3.293	11.4	21.9
10 8	3 0.71	+26 14.7	1.418	2.300	14.9	20.7	10 8	2 55.84	- 0 56.1	2.400	3.297	9.0	21.7
10 18	2 53.57	+26 24.2	1.360	2.299	10.8	20.5	10 18	2 49.60	- 1 49.0	2.357	3.300	6.6	21.6
10 28	2 44.11	+26 13.8	1.325	2.298	6.6	20.2	10 28	2 42.28	- 2 34.7	2.342	3.303	5.2	21.5
11 7	2 33.63	+25 44.6	1.316	2.298	4.4	20.1	11 7	2 34.57	- 3 8.8	2.355	3.305	5.8	21.5
11 17	2 23.63	+25 1.1	1.332	2.298	7.0	20.2	11 17	2 27.19	- 3 28.0	2.397	3.307	7.9	21.7
11 27	2 15.57	+24 11.3	1.375	2.298	11.2	20.5	11 27	2 20.84	- 3 30.6	2.465	3.310	10.3	21.8
12 7	2 10.40	+23 23.9	1.439	2.299	15.2	20.7	12 7	2 16.04	- 3 16.6	2.557	3.311	12.5	22.0
<b>300574</b>	2007 <i>TM</i> <sub>360</sub>		11	3.9 90°16	2°4/ 1.9 18		<b>32068</b>	2000 <i>JE</i> <sub>58</sub>		11	3.9 197°36	0°3/ 3.7 18 R	
9 28	3 0.73	+13 44.9	1.839	2.671	14.5	20.4	9 28	3 1.49	+18 18.4	2.316	3.123	12.7	19.5
10 8	2 56.61	+12 27.1	1.769	2.677	11.0	20.2	10 8	2 56.89	+17 28.7	2.228	3.121	9.8	19.3
10 18	2 50.33	+10 58.8	1.722	2.682	7.1	19.9	10 18	2 50.42	+16 27.6	2.165	3.118	6.4	19.1
10 28	2 42.59	+ 9 25.8	1.702	2.688	3.2	19.7	10 28	2 42.66	+15 18.0	2.129	3.115	2.6	18.9
11 7	2 34.35	+ 7 55.2	1.711	2.694	3.3	19.7	11 7	2 34.40	+14 4.2	2.123	3.112	1.3	18.8
11 17	2 26.61	+ 6 34.6	1.748	2.700	7.1	20.0	11 17	2 26.48	+12 51.9	2.147	3.108	5.2	19.0
11 27	2 20.29	+ 5 30.1	1.813	2.706	10.9	20.2	11 27	2 19.71	+11 46.5	2.200	3.104	8.7	19.3
12 7	2 16.01	+ 4 45.2	1.901	2.711	14.2	20.5	12 7	2 14.71	+10 52.8	2.279	3.099	11.8	19.5
<b>113835</b>	2002 <i>TP</i> <sub>231</sub>		11	3.9 350°20	7°2/ 28.7 18		<b>47251</b>	1999 <i>VS</i> <sub>60</sub>		11	3.9 243°38	0°7/ 3.5 18	
9 28	2 59.76	- 6 11.7	2.315	3.141	12.1	19.0	9 28	3 6.06	+15 5.0	1.572	2.401	16.6	19.0
10 8	2 55.42	- 7 11.7	2.253	3.140	9.9	18.9	10 8	3 1.36	+14 50.0	1.491	2.395	12.9	18.7
10 18	2 49.38	- 8 4.9	2.214	3.139	8.0	18.8	10 18	2 53.84	+14 25.0	1.431	2.389	8.4	18.5
10 28	2 42.17	- 8 45.7	2.201	3.139	7.2	18.7	10 28	2 44.22	+13 52.4	1.395	2.383	3.5	18.1
11 7	2 34.54	- 9 9.2	2.215	3.138	7.9	18.8	11 7	2 33.68	+13 16.5	1.387	2.376	2.0	18.0
11 17	2 27.26	- 9 12.6	2.256	3.138	9.6	18.9	11 17	2 23.56	+12 42.9	1.406	2.369	7.0	18.3
11 27	2 21.07	- 8 55.1	2.321	3.137	11.8	19.0	11 27	2 15.16	+12 17.4	1.452	2.362	11.8	18.6
12 7	2 16.51	- 8 18.2	2.408	3.137	13.8	19.2	12 7	2 9.38	+12 4.5	1.520	2.355	15.9	18.8
<b>89597</b>	2001 <i>XJ</i> <sub>159</sub>		11	3.9 53°									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>454217</b>	2013 HZ <sub>110</sub>	11	3.9 289°16	1°2/ 4.7 18			<b>26509</b>	2000 CJ <sub>34</sub>	11	3.9 100°56	1°3/ 3.1 18		
9 28	3 4.51	+18 57.2	2.047	2.854	14.1	21.4	9 28	3 7.06	+14 42.4	1.702	2.526	15.8	18.5
10 8	2 59.58	+19 9.8	1.962	2.852	11.0	21.2	10 8	3 1.51	+14 5.9	1.645	2.547	12.1	18.3
10 18	2 52.38	+19 13.2	1.900	2.850	7.4	21.0	10 18	2 53.54	+13 20.0	1.610	2.567	7.8	18.1
10 28	2 43.56	+19 7.7	1.864	2.848	3.5	20.8	10 28	2 43.98	+12 28.7	1.600	2.587	3.2	17.9
11 7	2 34.02	+18 55.0	1.857	2.846	1.6	20.6	11 7	2 33.97	+11 37.2	1.619	2.607	2.2	17.9
11 17	2 24.80	+18 38.1	1.878	2.844	5.3	20.9	11 17	2 24.66	+10 51.3	1.667	2.626	6.6	18.2
11 27	2 16.93	+18 21.4	1.928	2.842	9.1	21.1	11 27	2 17.06	+10 16.1	1.742	2.645	10.6	18.5
12 7	2 11.13	+18 9.1	2.002	2.840	12.5	21.3	12 7	2 11.83	+9 55.1	1.840	2.663	14.1	18.8
<b>282273</b>	2002 NU <sub>76</sub>	11	3.9 151°97	1°6/ 2.6 18			<b>459352</b>	2012 HJ <sub>61</sub>	11	3.9 168°43	7°6/ 28.7 18		
9 28	3 2.69	+13 52.9	2.143	2.962	13.1	21.1	9 28	3 3.22	-10 49.3	2.583	3.387	11.6	21.0
10 8	2 57.84	+13 2.1	2.068	2.969	10.0	20.9	10 8	2 57.88	-11 30.1	2.522	3.388	9.8	20.9
10 18	2 51.04	+12 3.1	2.018	2.975	6.4	20.7	10 18	2 50.91	-12 1.4	2.484	3.389	8.2	20.8
10 28	2 42.92	+10 59.6	1.994	2.981	2.8	20.5	10 28	2 42.87	-12 18.1	2.473	3.390	7.6	20.8
11 7	2 34.33	+9 56.8	2.001	2.986	2.4	20.4	11 7	2 34.45	-12 16.7	2.489	3.391	8.1	20.8
11 17	2 26.16	+8 59.7	2.037	2.991	6.0	20.7	11 17	2 26.40	-11 55.4	2.531	3.392	9.5	20.9
11 27	2 19.26	+8 13.4	2.101	2.996	9.5	20.9	11 27	2 19.41	-11 14.6	2.599	3.392	11.3	21.0
12 7	2 14.23	+7 41.0	2.189	3.000	12.5	21.1	12 7	2 13.99	-10 16.3	2.689	3.393	13.1	21.2
<b>459392</b>	2012 KK <sub>25</sub>	11	3.9 31°23	3°8/ 1.0 18			<b>13875</b>	4525 P-L	11	3.9 4°71	0°2/ 3.8 18		
9 28	2 59.25	+6 34.1	1.949	2.790	13.4	20.7	9 28	2 59.09	+16 48.0	1.713	2.546	15.3	17.9
10 8	2 55.32	+5 48.4	1.890	2.800	10.3	20.5	10 8	2 55.70	+16 27.9	1.640	2.546	11.8	17.7
10 18	2 49.43	+5 0.9	1.854	2.812	6.9	20.3	10 18	2 49.98	+15 57.1	1.588	2.547	7.7	17.5
10 28	2 42.25	+4 16.4	1.844	2.823	4.2	20.2	10 28	2 42.59	+15 18.0	1.561	2.549	3.2	17.2
11 7	2 34.64	+3 40.1	1.861	2.835	4.5	20.2	11 7	2 34.56	+14 35.1	1.562	2.551	1.5	17.1
11 17	2 27.49	+3 15.9	1.907	2.848	7.4	20.4	11 17	2 26.95	+13 53.8	1.589	2.554	6.1	17.4
11 27	2 21.62	+3 6.9	1.978	2.861	10.6	20.6	11 27	2 20.82	+13 19.6	1.643	2.559	10.3	17.7
12 7	2 17.62	+3 13.6	2.072	2.874	13.5	20.9	12 7	2 16.87	+12 56.8	1.720	2.563	13.9	17.9
<b>114898</b>	2003 QQ <sub>22</sub>	11	3.9 98°75	0°1/ 4.1 18			<b>192315</b>	1994 JO <sub>4</sub>	11	3.9 173°30	0°6/ 3.6 18		
9 28	3 0.20	+18 10.8	2.287	3.098	12.7	19.5	9 28	3 5.19	+15 6.5	1.897	2.717	14.6	21.1
10 8	2 55.94	+17 43.6	2.206	3.100	9.8	19.3	10 8	3 0.15	+14 53.0	1.819	2.718	11.3	20.9
10 18	2 49.82	+17 6.5	2.148	3.102	6.4	19.1	10 18	2 52.77	+14 31.2	1.763	2.719	7.3	20.6
10 28	2 42.43	+16 21.7	2.118	3.104	2.7	18.9	10 28	2 43.75	+14 3.3	1.733	2.720	3.0	20.4
11 7	2 34.55	+15 32.7	2.116	3.106	1.1	18.8	11 7	2 34.05	+13 32.8	1.731	2.720	1.7	20.3
11 17	2 27.01	+14 43.9	2.144	3.108	4.9	19.0	11 17	2 24.77	+13 4.0	1.759	2.721	6.0	20.6
11 27	2 20.61	+13 59.9	2.200	3.109	8.4	19.3	11 27	2 16.94	+12 41.6	1.814	2.721	10.0	20.8
12 7	2 15.97	+13 24.8	2.282	3.111	11.4	19.5	12 7	2 11.28	+12 29.1	1.893	2.721	13.5	21.0
<b>396367</b>	2014 DF <sub>93</sub>	11	3.9 300°66	1°2/ 3.2 18			<b>154118</b>	2002 EH <sub>61</sub>	11	3.9 131°05	4°5/ 7.5 18		
9 28	3 2.37	+14 57.8	1.520	2.359	16.7	21.4	9 28	3 4.26	+29 29.1	2.206	2.971	14.5	20.4
10 8	2 58.71	+14 30.6	1.432	2.342	12.9	21.1	10 8	2 59.44	+29 53.7	2.119	2.972	11.9	20.2
10 18	2 52.24	+13 51.9	1.365	2.326	8.5	20.8	10 18	2 52.33	+30 3.1	2.054	2.972	9.0	20.0
10 28	2 43.63	+13 4.8	1.323	2.310	3.5	20.5	10 28	2 43.58	+29 55.5	2.014	2.973	6.1	19.9
11 7	2 33.98	+12 14.6	1.306	2.295	2.3	20.3	11 7	2 34.11	+29 31.3	2.001	2.973	4.5	19.8
11 17	2 24.65	+11 28.0	1.316	2.279	7.5	20.6	11 17	2 24.98	+28 53.4	2.017	2.973	5.8	19.9
11 27	2 16.96	+10 51.8	1.352	2.264	12.4	20.9	11 27	2 17.21	+28 7.1	2.060	2.974	8.6	20.0
12 7	2 11.86	+10 31.0	1.409	2.249	16.6	21.1	12 7	2 11.54	+27 19.0	2.129	2.974	11.6	20.2
<b>49939</b>	1999 XV <sub>180</sub>	11	3.9 201°16	0°0/ 3.8 18			<b>289402</b>	2005 CM <sub>48</sub>	11	3.9 322°64	10°0/ 8.6 17		
9 28	3 8.93	+15 27.5	1.866	2.679	15.1	19.2	9 28	3 4.57	+34 19.2	1.439	2.217	20.4	20.0
10 8	3 3.16	+15 32.4	1.781	2.676	11.7	19.0	10 8	3 1.63	+35 46.5	1.342	2.191	17.7	19.8
10 18	2 54.83	+15 29.6	1.718	2.672	7.7	18.8	10 18	2 54.98	+36 55.2	1.262	2.166	14.6	19.5
10 28	2 44.62	+15 20.2	1.682	2.668	3.2	18.5	10 28	2 45.11	+37 37.1	1.203	2.142	11.6	19.3
11 7	2 33.58	+15 6.7	1.674	2.663	1.5	18.3	11 7	2 33.34	+37 46.4	1.166	2.119	10.0	19.1
11 17	2 22.90	+14 52.4	1.695	2.658	6.1	18.6	11 17	2 21.51	+37 22.2	1.153	2.096	10.9	19.1
11 27	2 13.74	+14 41.8	1.745	2.653	10.3	18.9	11 27	2 11.70	+36 30.9	1.162	2.075	13.9	19.2
12 7	2 6.94	+14 38.7	1.819	2.646	14.0	19.1	12 7	2 5.43	+35 24.4	1.193	2.055	17.5	19.4
<b>265392</b>	2004 SQ <sub>30</sub>	11	3.9 359°81	1°6/ 4.8 17			<b>338998</b>	2004 GD <sub>31</sub>	11	3.9 106°57	0°2/ 3.8 17		
9 28	2 58.50	+18 51.3	1.352	2.197	18.0	19.6	9 28	3 9.04	+15 53.0	1.782	2.596	15.6	21.0
10 8	2 55.96	+19 11.3	1.282	2.193	14.1	19.3	10 8	3 3.01	+15 43.7	1.721	2.617	12.0	20.8
10 18	2 50.51	+19 18.9	1.232	2.190	9.5	19.1	10 18	2 54.53	+15 25.5	1.682	2.636	7.8	20.6
10 28	2 42.89	+19 14.6	1.204	2.189	4.5	18.8	10 28	2 44.44	+15 0.3	1.669	2.656	3.2	20.4
11 7	2 34.34	+19 0.8	1.200	2.190	2.0	18.6	11 7	2 33.83	+14 31.6	1.685	2.675	1.5	20.3
11 17	2 26.26	+18 42.2	1.222	2.192	6.7	18.9	11 17	2 23.87	+14 4.1	1.730	2.693	6.0	20.6
11 27	2 20.01	+18 24.8	1.268	2.196	11.5	19.2	11 27	2 15.62	+13 42.3	1.803	2.710	10.1	20.9
12 7	2 16.48	+18 14.2	1.336	2.202	15.7	19.5	12 7	2 9.75	+13 29.9	1.900	2.727	13.5	21.2
<b>306087</b>	2010 GQ <sub>160</sub>	11	3.9 107°46	3°6/ 31.8 18			<b>37899</b>	1998 FZ <sub>65</sub>	11	3.9 233°33	1°1/ 4.7 18		
9 28	3 2.10	+8 43.0	2.019	2.850	13.4	21.0	9 28	3 4.43	+20 0.0	1.846	2.657	15.3	19.4
10 8	2 57.36	+7 27.6	1.959	2.866	10.2	20.8	10 8	2 59.79	+19 50.2	1.761	2.652	12.0	19.2
10 18	2 50.69	+6 7.6	1.923	2.881	6.7	20.6	10 18	2 52.68	+19 27.8	1.696	2.647	8.1	18.9
10 28	2 42.76	+4 48.9	1.915	2.895	4.0	20.5	10 28	2 43.77	+18 53.8	1.658	2.642	3.7	18.7
11 7	2 34.45	+3 37.6	1.936	2.910	4.4	20.5	11 7	2 34.07	+18 11.4	1.647	2.637	1.5	18.5
11 17	2 26.65	+3 39.6	1.986	2.924	7.4	20.8	11 17	2 24.75	+17 25.3	1.665	2.631	5.8	18.8
11 27	2 20.17	+1 58.6	2.062	2.937	10.6	21.0	11 27	2 16.91	+16 41.8	1.710	2.625	10.0	19.0
12 7	2 15.58	+1 36.3	2.162	2.951	13.4	21.2	12 7	2 11.36	+16 6.5	1.779	2.619	13.7	19.2
<b>251215</b>	2006 UA <sub>190</sub>	11	3.9 25°43	3°4/ 6.7 18			<b>115932</b>	2003 WF <sub>23</sub>	11	3.9 251°09	1°2/ 3.0 18	</	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>326880</b>	2003 <i>UM</i> <sub>364</sub>		11 3.9 86°73	4.5/30.4	18		<b>128818</b>	2004 <i>RH</i> <sub>294</sub>		11 3.9 70°69	3.7/ 7.2	18	
9 28	2 59.19	+ 4 35.3	2.333	3.166	11.8	20.7	9 28	3 2.44	+28 31.1	2.203	2.976	14.3	19.8
10 8	2 54.92	+ 3 11.9	2.277	3.181	9.0	20.5	10 8	2 57.91	+28 34.3	2.124	2.984	11.6	19.6
10 18	2 49.03	+ 1 47.4	2.245	3.197	6.3	20.4	10 18	2 51.25	+28 21.7	2.066	2.991	8.5	19.4
10 28	2 42.10	+ 0 27.6	2.242	3.212	4.6	20.3	10 28	2 43.12	+27 52.7	2.034	2.999	5.5	19.3
11 7	2 34.85	- 0 41.7	2.268	3.227	5.2	20.4	11 7	2 34.43	+27 9.1	2.029	3.007	3.7	19.2
11 17	2 28.01	- 1 36.1	2.322	3.242	7.6	20.5	11 17	2 26.16	+26 14.9	2.053	3.015	5.3	19.3
11 27	2 22.26	- 2 12.5	2.403	3.257	10.1	20.7	11 27	2 19.24	+25 15.9	2.106	3.023	8.3	19.5
12 7	2 18.10	- 2 30.4	2.508	3.272	12.5	20.9	12 7	2 14.31	+24 18.4	2.184	3.031	11.2	19.7
<b>416377</b>	2003 <i>TB</i> <sub>45</sub>		11 3.9 23°67	3.2/ 6.6	18		<b>376388</b>	2012 <i>DH</i> <sub>82</sub>		11 3.9 156°33	2.2/ 5.5	17	
9 28	3 1.22	+26 30.6	2.117	2.904	14.4	21.1	9 28	3 7.37	+23 30.0	1.650	2.453	17.1	21.4
10 8	2 57.06	+26 32.8	2.036	2.907	11.6	20.9	10 8	3 2.26	+23 13.6	1.573	2.458	13.6	21.2
10 18	2 50.74	+26 20.0	1.977	2.910	8.3	20.7	10 18	2 54.36	+22 39.7	1.518	2.463	9.4	21.0
10 28	2 42.91	+25 52.0	1.943	2.914	5.0	20.5	10 28	2 44.48	+21 49.0	1.487	2.467	4.8	20.7
11 7	2 34.47	+25 10.7	1.936	2.918	3.2	20.4	11 7	2 33.85	+20 45.2	1.483	2.471	2.3	20.6
11 17	2 26.42	+24 20.1	1.958	2.922	5.2	20.5	11 17	2 23.79	+19 34.9	1.508	2.475	6.2	20.8
11 27	2 19.70	+23 26.1	2.007	2.926	8.5	20.7	11 27	2 15.55	+18 26.6	1.560	2.478	10.6	21.1
12 7	2 15.00	+22 34.8	2.082	2.931	11.6	20.9	12 7	2 9.94	+17 27.7	1.636	2.480	14.5	21.4
<b>77304</b>	2001 <i>FP</i> <sub>78</sub>		11 3.9 157°37	2.8/ 1.4	18		<b>226522</b>	2003 <i>UT</i> <sub>79</sub>		11 3.9 350°78	1.5/ 2.9	18	
9 28	3 2.04	+10 23.0	2.198	3.023	12.7	19.7	9 28	3 0.85	+12 4.3	1.893	2.726	14.1	19.4
10 8	2 57.30	+ 9 19.3	2.125	3.029	9.6	19.5	10 8	2 56.87	+11 54.2	1.814	2.722	10.8	19.1
10 18	2 50.70	+ 8 9.6	2.076	3.034	6.3	19.3	10 18	2 50.68	+11 38.7	1.758	2.718	7.0	18.9
10 28	2 42.84	+ 6 58.7	2.056	3.039	3.3	19.1	10 28	2 42.93	+11 20.4	1.727	2.714	3.0	18.7
11 7	2 34.53	+ 5 52.1	2.064	3.043	3.6	19.1	11 7	2 34.51	+11 2.9	1.724	2.711	2.3	18.6
11 17	2 26.62	+ 4 55.0	2.103	3.047	6.6	19.3	11 17	2 26.43	+10 49.8	1.749	2.709	6.2	18.9
11 27	2 19.92	+ 4 11.8	2.168	3.050	9.9	19.5	11 27	2 19.68	+10 44.8	1.801	2.708	10.1	19.1
12 7	2 14.99	+ 3 44.8	2.259	3.053	12.7	19.7	12 7	2 14.96	+10 50.3	1.876	2.706	13.5	19.3
<b>128222</b>	2003 <i>SP</i> <sub>101</sub>		11 3.9 29°34	5.7/ 8.2	18		<b>281166</b>	2007 <i>ET</i> <sub>34</sub>		11 3.9 242°20	1.7/ 2.9	18	
9 28	3 3.08	+30 39.4	1.674	2.458	17.7	18.2	9 28	3 5.10	+13 5.2	1.766	2.593	15.2	21.6
10 8	2 59.01	+31 11.1	1.614	2.475	14.6	18.0	10 8	3 0.37	+12 37.5	1.680	2.584	11.7	21.4
10 18	2 52.23	+31 22.6	1.574	2.494	11.1	17.9	10 18	2 53.11	+12 1.6	1.615	2.574	7.6	21.1
10 28	2 43.56	+31 11.7	1.556	2.514	7.7	17.7	10 28	2 43.99	+11 20.6	1.577	2.564	3.3	20.9
11 7	2 34.23	+30 39.7	1.563	2.534	5.7	17.6	11 7	2 34.04	+10 39.2	1.566	2.553	2.6	20.8
11 17	2 25.54	+29 51.1	1.597	2.555	6.9	17.8	11 17	2 24.43	+10 2.8	1.584	2.542	7.0	21.0
11 27	2 18.68	+28 53.5	1.657	2.577	9.9	18.0	11 27	2 16.30	+ 9 36.7	1.628	2.531	11.3	21.3
12 7	2 14.39	+27 55.3	1.741	2.599	13.0	18.2	12 7	2 10.48	+ 9 24.5	1.696	2.519	15.0	21.5
<b>44778</b>	1999 <i>TK</i> <sub>152</sub>		11 3.9 16°07	1.9/ 2.8	18		<b>203988</b>	2003 <i>SD</i> <sub>293</sub>		11 3.9 302°82	2.4/ 5.6	18	
9 28	2 59.96	+15 27.7	1.105	1.967	19.9	18.1	9 28	3 2.53	+23 33.7	1.701	2.510	16.4	20.2
10 8	2 57.38	+14 34.7	1.048	1.971	15.3	17.8	10 8	2 58.65	+23 24.5	1.614	2.502	13.1	20.0
10 18	2 51.52	+13 26.1	1.009	1.976	9.9	17.5	10 18	2 52.11	+22 58.6	1.548	2.494	9.1	19.7
10 28	2 43.34	+12 8.2	0.993	1.981	4.1	17.2	10 28	2 43.60	+22 16.2	1.505	2.485	4.8	19.5
11 7	2 34.32	+10 50.4	1.000	1.988	3.2	17.2	11 7	2 34.22	+21 20.3	1.490	2.477	2.5	19.3
11 17	2 26.07	+ 9 42.8	1.032	1.996	8.8	17.6	11 17	2 25.21	+20 16.7	1.502	2.469	6.0	19.5
11 27	2 20.00	+ 8 54.1	1.086	2.004	14.1	17.9	11 27	2 17.81	+19 13.2	1.540	2.462	10.4	19.8
12 7	2 16.95	+ 8 28.7	1.160	2.014	18.5	18.2	12 7	2 12.85	+18 17.2	1.603	2.454	14.4	20.0
<b>488209</b>	2015 <i>XA</i> <sub>279</sub>		11 3.9 272°73	3.1/ 1.8	17		<b>19626</b>	1999 <i>RJ</i> <sub>16</sub>		11 3.9 191°26	0.9/ 3.2	18	
9 28	3 2.95	+ 6 25.2	2.247	3.072	12.4	21.6	9 28	3 1.26	+14 40.2	2.211	3.030	12.8	18.4
10 8	2 58.11	+ 6 7.6	2.161	3.063	9.6	21.4	10 8	2 56.83	+14 12.5	2.130	3.030	9.8	18.2
10 18	2 51.33	+ 5 48.9	2.099	3.054	6.4	21.2	10 18	2 50.49	+13 37.1	2.073	3.030	6.4	18.0
10 28	2 43.16	+ 5 32.4	2.064	3.044	3.6	21.0	10 28	2 42.81	+12 56.7	2.042	3.029	2.6	17.7
11 7	2 34.39	+ 5 21.6	2.058	3.035	3.7	21.0	11 7	2 34.60	+12 15.1	2.041	3.029	1.7	17.7
11 17	2 25.88	+ 5 19.4	2.081	3.026	6.6	21.2	11 17	2 26.73	+11 36.5	2.068	3.028	5.4	17.9
11 27	2 18.49	+ 5 28.2	2.131	3.016	9.9	21.4	11 27	2 20.03	+11 5.1	2.124	3.027	9.0	18.1
12 7	2 12.87	+ 5 49.0	2.206	3.007	12.8	21.6	12 7	2 15.12	+10 44.2	2.205	3.027	12.1	18.3
<b>23279</b>	Chenhungjen		11 3.9 22°87	3.3/ 5.5	18		<b>120358</b>	2005 <i>MN</i> <sub>36</sub>		11 3.9 46°86	2.2/ 2.9	18	
9 28	3 4.48	+21 50.6	1.064	1.909	21.8	17.8	9 28	3 6.52	+12 26.3	1.169	2.022	19.7	19.4
10 8	3 1.23	+22 19.8	1.008	1.916	17.2	17.5	10 8	3 1.94	+12 1.7	1.126	2.044	15.0	19.1
10 18	2 54.26	+22 30.5	0.970	1.925	12.0	17.3	10 18	2 54.18	+11 28.8	1.103	2.067	9.6	18.9
10 28	2 44.55	+22 21.7	0.952	1.935	6.3	17.0	10 28	2 44.36	+10 52.5	1.103	2.090	4.1	18.7
11 7	2 33.81	+21 56.0	0.958	1.945	3.4	16.9	11 7	2 34.00	+10 19.2	1.127	2.115	3.3	18.7
11 17	2 23.90	+21 19.8	0.987	1.957	7.8	17.2	11 17	2 24.64	+ 9 55.0	1.177	2.139	8.3	19.1
11 27	2 16.53	+20 42.4	1.039	1.970	13.1	17.5	11 27	2 17.58	+ 9 44.8	1.251	2.164	13.1	19.4
12 7	2 12.65	+20 12.6	1.111	1.983	17.7	17.8	12 7	2 13.52	+ 9 50.7	1.346	2.189	17.1	19.7
<b>403484</b>	2009 <i>UB</i> <sub>41</sub>		11 3.9 352°67	0.0/ 3.9	17		<b>278665</b>	2008 <i>RV</i> <sub>78</sub>		11 3.9 56°35	4.4/ 7.8	17	
9 28	2 59.86	+16 24.5	1.762	2.593	15.0	21.2	9 28	3 3.16	+29 56.9	2.246	3.010	14.3	21.4
10 8	2 56.32	+16 14.2	1.684	2.589	11.6	21.0	10 8	2 58.47	+30 16.8	2.170	3.021	11.7	21.2
10 18	2 50.42	+15 54.1	1.626	2.585	7.6	20.8	10 18	2 51.64	+30 21.2	2.115	3.032	8.8	21.0
10 28	2 42.84	+15 26.5	1.594	2.581	3.2	20.5	10 28	2 43.30	+30 8.6	2.086	3.043	6.0	20.9
11 7	2 34.54	+14 54.8	1.589	2.579	1.4	20.4	11 7	2 34.40	+29 40.1	2.083	3.055	4.4	20.8
11 17	2 26.60	+14 23.8	1.611	2.577	6.0	20.7	11 17	2 25.90	+28 58.8	2.109	3.066	5.6	20.9
11 27	2 20.09	+13 58.6	1.660	2.576	10.2	20.9	11 27	2 18.76	+28 10.2	2.163	3.078	8.2	21.1
12 7	2 15.76	+13 43.3	1.732	2.575	13.9	21.1	12 7	2 13.64	+27 20.3	2.243	3.089	11.0	21.3
<b>258701</b>	2002 <i>GV</i> <sub>38</sub>		11 3.9 215°96	2.1/ 2.6	17		<b>184878</b>	Gotlib		11 3.9 65°36	0.6/ 3.6	18	

EPHEMERIDES

11 3.9

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>267178</b>	2000 <i>OB</i> <sub>35</sub>	11 3.9 68°48'	7.6°/30.1	18			<b>376141</b>	2011 <i>BZ</i> <sub>4</sub>	11 3.9 3°58'	0.8°/3.5	18		
9 28	3 4.65	+ 0 15.7	1.478	2.325	16.6	20.1	9 28	2 56.36	+16 28.6	0.921	1.799	21.6	20.3
10 8	2 59.80	- 1 12.9	1.440	2.348	13.0	19.9	10 8	2 55.25	+16 2.7	0.866	1.797	16.7	20.1
10 18	2 52.47	- 2 37.1	1.423	2.370	9.7	19.8	10 18	2 50.50	+15 19.4	0.828	1.796	10.9	19.7
10 28	2 43.59	- 3 47.7	1.431	2.393	7.7	19.7	10 28	2 43.06	+14 23.5	0.809	1.798	4.5	19.4
11 7	2 34.33	- 4 37.0	1.465	2.416	8.5	19.8	11 7	2 34.55	+13 23.5	0.812	1.801	2.5	19.3
11 17	2 25.87	- 5 0.5	1.524	2.438	11.2	20.0	11 17	2 26.79	+12 29.5	0.837	1.807	8.9	19.7
11 27	2 19.22	- 4 57.3	1.607	2.461	14.3	20.3	11 27	2 21.43	+11 51.3	0.882	1.814	14.8	20.0
12 7	2 14.97	- 4 29.7	1.710	2.483	17.0	20.5	12 7	2 19.43	+11 34.2	0.946	1.823	19.7	20.4
<b>54841</b>	2001 <i>OD</i> <sub>2</sub>	11 3.9 144°92'	2.2°/5.3	18			<b>307580</b>	2003 <i>GS</i> <sub>15</sub>	11 3.9 147°22'	0.0°/3.8	18		
9 28	3 8.46	+21 45.6	1.747	2.549	16.4	20.2	9 28	3 6.19	+17 15.8	1.961	2.771	14.5	21.8
10 8	3 2.99	+21 56.7	1.671	2.555	12.9	20.0	10 8	3 0.82	+16 57.9	1.886	2.779	11.2	21.6
10 18	2 54.81	+21 54.5	1.616	2.561	8.9	19.8	10 18	2 53.18	+16 30.0	1.833	2.787	7.3	21.4
10 28	2 44.69	+21 38.7	1.586	2.566	4.6	19.5	10 28	2 43.97	+15 54.0	1.808	2.794	3.1	21.1
11 7	2 33.79	+21 11.4	1.584	2.571	2.4	19.4	11 7	2 34.17	+15 13.6	1.811	2.800	1.3	21.0
11 17	2 23.39	+20 36.8	1.610	2.576	6.0	19.7	11 17	2 24.84	+14 33.5	1.843	2.806	5.6	21.3
11 27	2 14.71	+20 1.0	1.664	2.580	10.1	19.9	11 27	2 16.98	+13 58.6	1.904	2.812	9.6	21.6
12 7	2 8.57	+19 30.3	1.742	2.584	13.8	20.2	12 7	2 11.27	+13 33.3	1.989	2.817	12.9	21.8
<b>195814</b>	2002 <i>QB</i> <sub>20</sub>	11 3.9 334°35'	4.3°/7.7	17			<b>154888</b>	2004 <i>RC</i> <sub>165</sub>	11 3.9 307°22'	3.4°/6.4	18		
9 28	3 1.41	+29 44.9	2.242	3.011	14.2	20.0	9 28	3 3.66	+25 29.7	2.132	2.917	14.3	20.0
10 8	2 57.25	+29 56.8	2.152	3.007	11.7	19.8	10 8	2 59.05	+25 50.7	2.043	2.913	11.6	19.8
10 18	2 50.93	+29 52.8	2.083	3.003	8.8	19.6	10 18	2 52.16	+25 58.7	1.975	2.908	8.4	19.6
10 28	2 43.05	+29 31.7	2.039	2.999	5.9	19.4	10 28	2 43.61	+25 52.4	1.932	2.904	5.1	19.4
11 7	2 34.50	+28 54.5	2.022	2.996	4.3	19.3	11 7	2 34.30	+25 32.9	1.918	2.899	3.4	19.3
11 17	2 26.26	+28 4.5	2.034	2.993	5.6	19.4	11 17	2 25.28	+25 2.9	1.932	2.895	5.4	19.4
11 27	2 19.30	+27 7.4	2.073	2.990	8.4	19.5	11 27	2 17.57	+24 27.4	1.974	2.891	8.8	19.6
12 7	2 14.32	+26 9.6	2.138	2.987	11.4	19.7	12 7	2 11.94	+23 52.3	2.041	2.887	12.0	19.8
<b>412533</b>	2014 <i>MH</i> <sub>43</sub>	11 3.9 40°15'	4.4°/31.5	18			<b>516389</b>	1996 <i>BX</i> <sub>11</sub>	11 3.9 171°46'	6.1°/30.6	18		
9 28	2 59.24	+ 7 11.6	1.780	2.625	14.3	20.5	9 28	3 3.18	+ 0 26.3	1.895	2.730	14.0	20.8
10 8	2 55.42	+ 5 57.0	1.731	2.644	10.9	20.3	10 8	2 58.48	- 0 30.2	1.828	2.731	11.0	20.6
10 18	2 49.56	+ 4 39.7	1.705	2.663	7.3	20.1	10 18	2 51.65	- 1 24.3	1.785	2.731	8.1	20.4
10 28	2 42.39	+ 3 26.1	1.705	2.683	4.6	20.0	10 28	2 43.33	- 2 9.7	1.767	2.732	6.2	20.3
11 7	2 34.84	+ 2 22.9	1.732	2.704	5.2	20.1	11 7	2 34.47	- 2 40.6	1.777	2.732	6.9	20.3
11 17	2 27.86	+ 1 35.7	1.787	2.724	8.2	20.3	11 17	2 26.03	- 2 52.9	1.814	2.732	9.4	20.5
11 27	2 22.28	+ 1 7.7	1.867	2.746	11.4	20.6	11 27	2 18.96	- 2 44.8	1.875	2.732	12.4	20.7
12 7	2 18.67	+ 0 59.7	1.970	2.767	14.2	20.8	12 7	2 13.91	- 2 17.0	1.959	2.732	15.2	20.9
<b>475377</b>	2006 <i>EO</i> <sub>34</sub>	11 3.9 132°42'	2.3°/5.4	18			<b>49746</b>	1999 <i>VG</i> <sub>156</sub>	11 3.9 175°77'	0.2°/3.8	18		
9 28	3 8.04	+21 34.8	1.889	2.687	15.5	21.6	9 28	3 8.09	+16 18.4	1.977	2.785	14.5	20.0
10 8	3 2.49	+21 55.9	1.812	2.693	12.2	21.4	10 8	3 2.32	+16 2.5	1.896	2.789	11.2	19.8
10 18	2 54.41	+22 5.3	1.756	2.699	8.4	21.2	10 18	2 54.20	+15 37.4	1.838	2.791	7.3	19.6
10 28	2 44.52	+22 2.5	1.726	2.705	4.4	20.9	10 28	2 44.43	+15 4.8	1.806	2.793	3.1	19.3
11 7	2 33.88	+21 48.6	1.724	2.711	2.4	20.8	11 7	2 33.99	+14 28.3	1.804	2.793	1.4	19.2
11 17	2 23.68	+21 27.1	1.751	2.716	5.7	21.0	11 17	2 23.97	+13 52.3	1.831	2.793	5.8	19.5
11 27	2 15.05	+21 3.1	1.806	2.721	9.5	21.3	11 27	2 15.41	+13 21.8	1.887	2.793	9.8	19.7
12 7	2 8.79	+20 41.9	1.886	2.726	13.0	21.5	12 7	2 9.05	+13 0.8	1.968	2.791	13.3	20.0
<b>55164</b>	2001 <i>QU</i> <sub>239</sub>	11 3.9 62°64'	0.0°/3.8	18			<b>185256</b>	2006 <i>UX</i> <sub>78</sub>	11 3.9 34°25'	1.7°/5.1	18		
9 28	3 1.49	+18 10.8	1.916	2.735	14.5	19.1	9 28	3 3.20	+20 58.7	1.716	2.532	16.1	20.5
10 8	2 57.30	+17 36.4	1.840	2.738	11.2	18.9	10 8	2 58.93	+20 59.3	1.645	2.538	12.6	20.3
10 18	2 50.92	+16 50.1	1.786	2.742	7.3	18.7	10 18	2 52.15	+20 46.7	1.595	2.545	8.6	20.0
10 28	2 43.02	+15 54.7	1.758	2.745	3.1	18.4	10 28	2 43.60	+20 21.5	1.569	2.552	4.2	19.8
11 7	2 34.55	+14 54.7	1.759	2.749	1.4	18.3	11 7	2 34.36	+19 46.8	1.571	2.559	1.9	19.7
11 17	2 26.51	+13 55.9	1.788	2.752	5.7	18.6	11 17	2 25.61	+19 7.2	1.600	2.567	5.8	19.9
11 27	2 19.86	+13 4.2	1.845	2.756	9.6	18.9	11 27	2 18.48	+18 29.1	1.656	2.575	9.9	20.2
12 7	2 15.28	+12 24.3	1.926	2.759	13.1	19.1	12 7	2 13.71	+17 57.9	1.735	2.584	13.6	20.4
<b>364207</b>	2006 <i>QC</i> <sub>115</sub>	11 3.9 60°00'	0.3°/4.2	18			<b>250511</b>	2004 <i>JK</i> <sub>29</sub>	11 3.9 135°02'	0.3°/3.7	18		
9 28	3 3.79	+20 25.3	1.646	2.464	16.5	20.4	9 28	3 1.11	+18 7.0	2.143	2.956	13.4	20.7
10 8	2 59.08	+19 33.3	1.595	2.492	12.7	20.2	10 8	2 56.75	+17 16.5	2.064	2.960	10.3	20.5
10 18	2 51.98	+18 26.4	1.565	2.520	8.3	20.1	10 18	2 50.45	+16 14.4	2.010	2.964	6.7	20.3
10 28	2 43.39	+17 8.5	1.562	2.548	3.5	19.8	10 28	2 42.82	+15 4.0	1.982	2.969	2.7	20.0
11 7	2 34.44	+15 46.2	1.586	2.575	1.4	19.7	11 7	2 34.71	+13 50.0	1.983	2.973	1.4	19.9
11 17	2 26.26	+14 27.0	1.638	2.603	6.0	20.1	11 17	2 27.00	+12 38.4	2.015	2.976	5.4	20.2
11 27	2 19.81	+13 18.1	1.718	2.631	10.1	20.4	11 27	2 20.55	+11 35.0	2.074	2.980	9.0	20.5
12 7	2 15.68	+12 24.5	1.821	2.659	13.5	20.7	12 7	2 15.94	+10 44.1	2.159	2.984	12.2	20.7
<b>483579</b>	2004 <i>ET</i> <sub>77</sub>	11 3.9 242°08'	4.9°/30.6	18			<b>201157</b>	2002 <i>LO</i> <sub>14</sub>	11 3.9 197°44'	3.1°/6.9	18		
9 28	3 0.95	+ 3 57.8	2.173	3.006	12.5	21.5	9 28	3 5.52	+28 13.6	2.485	3.246	13.2	21.6
10 8	2 56.63	+ 2 46.2	2.091	2.995	9.8	21.3	10 8	3 0.10	+28 0.9	2.388	3.242	10.7	21.4
10 18	2 50.40	+ 1 32.4	2.033	2.984	6.9	21.1	10 18	2 52.65	+27 33.0	2.313	3.238	7.8	21.2
10 28	2 42.81	+ 0 22.3	2.002	2.973	5.0	21.0	10 28	2 43.77	+26 49.4	2.265	3.233	4.8	21.0
11 7	2 34.65	- 0 38.1	2.000	2.961	5.7	21.0	11 7	2 34.29	+25 52.0	2.247	3.227	3.1	20.9
11 17	2 26.77	- 1 23.5	2.026	2.949	8.3	21.2	11 17	2 25.14	+24 44.7	2.258	3.220	4.9	21.0
11 27	2 20.01	- 1 50.3	2.079	2.937	11.3	21.3	11 27	2 17.22	+23 33.5	2.300	3.213	7.9	21.2
12 7	2 15.02	- 1 57.5	2.154	2.925	14.0	21.5	12 7	2 11.17	+22 24.7	2.368	3.205	10.8	21.4
<b>265465</b>	2005 <i>AZ</i> <sub>36</sub>	11 3.9 286°00'	7.3°/28.2	18			<b>139271</b>	2001 <i>HM</i> <sub>63</sub>	11 3.9 153°84'	1.8°/5.3			

EPHEMERIDES

11 3.9

11 4.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>225491</b>	2000 HV <sub>40</sub>		11 3.9 258°92	1.2°/ 4.9 18			<b>24300</b>	1999 XX <sub>223</sub>		11 3.9 70°19	2.3°/ 2.7 18		
9 28	3 4.59	+21 32.1	1.763	2.572	15.9	20.4	9 28	3 8.34	+12 6.0	1.377	2.215	18.1	18.3
10 8	3 0.22	+21 6.2	1.665	2.555	12.6	20.2	10 8	3 2.93	+11 34.4	1.330	2.240	13.7	18.1
10 18	2 53.18	+20 24.1	1.588	2.538	8.6	19.9	10 18	2 54.69	+10 55.5	1.304	2.265	8.8	17.9
10 28	2 44.13	+19 26.6	1.537	2.520	4.1	19.6	10 28	2 44.61	+10 13.9	1.303	2.289	3.9	17.6
11 7	2 34.10	+18 17.5	1.513	2.502	1.6	19.4	11 7	2 34.07	+9 35.6	1.328	2.314	3.3	17.7
11 17	2 24.36	+17 3.4	1.517	2.484	6.2	19.7	11 17	2 24.42	+9 6.3	1.380	2.338	7.8	18.0
11 27	2 16.13	+15 52.4	1.549	2.465	10.8	19.9	11 27	2 16.85	+8 50.6	1.457	2.362	12.2	18.3
12 7	2 10.33	+14 51.9	1.605	2.446	14.9	20.1	12 7	2 12.02	+8 50.7	1.556	2.386	15.8	18.6
<b>349659</b>	2008 VK <sub>47</sub>		11 3.9 1°45	7.4°/30.8 18			<b>279233</b>	2009 UT <sub>139</sub>		11 3.9 14°29	4°1/ 7.0 18		
9 28	3 2.63	+0 13.4	1.414	2.268	16.9	19.9	9 28	3 3.24	+27 16.5	2.020	2.803	15.1	20.3
10 8	2 58.75	-0 43.1	1.354	2.266	13.4	19.7	10 8	2 58.85	+27 43.1	1.939	2.805	12.3	20.1
10 18	2 52.14	-1 36.0	1.315	2.266	9.9	19.5	10 18	2 52.09	+27 54.9	1.879	2.807	9.0	19.9
10 28	2 43.62	-2 17.1	1.299	2.266	7.6	19.4	10 28	2 43.62	+27 50.5	1.844	2.810	5.8	19.7
11 7	2 34.38	-2 39.1	1.307	2.267	8.3	19.4	11 7	2 34.42	+27 30.5	1.836	2.813	4.1	19.6
11 17	2 25.70	-2 37.5	1.341	2.268	11.3	19.6	11 17	2 25.59	+26 58.2	1.855	2.816	5.8	19.8
11 27	2 18.78	-2 10.7	1.397	2.270	14.9	19.8	11 27	2 18.18	+26 18.8	1.903	2.820	9.0	20.0
12 7	2 14.40	-1 20.9	1.474	2.273	18.1	20.1	12 7	2 12.96	+25 38.8	1.975	2.824	12.1	20.2
<b>69317</b>	1993 FB <sub>20</sub>		11 3.9 335°53	1.4°/ 3.3 18 R			<b>54856</b>	2001 OF <sub>21</sub>		11 3.9 41°77	2°1/ 5.4 18		
9 28	3 4.47	+11 43.2	1.410	2.255	17.4	18.4	9 28	3 3.58	+22 6.9	1.794	2.602	15.8	18.3
10 8	3 0.55	+11 53.7	1.330	2.243	13.5	18.2	10 8	2 59.18	+22 9.8	1.720	2.608	12.4	18.1
10 18	2 53.61	+11 59.3	1.271	2.233	8.9	17.9	10 18	2 52.31	+21 59.1	1.668	2.614	8.5	17.9
10 28	2 44.36	+12 2.3	1.235	2.223	3.8	17.5	10 28	2 43.70	+21 35.2	1.640	2.621	4.4	17.7
11 7	2 34.02	+12 5.7	1.225	2.214	2.5	17.4	11 7	2 34.41	+21 0.5	1.640	2.627	2.2	17.5
11 17	2 24.03	+12 13.2	1.242	2.205	7.6	17.7	11 17	2 25.59	+20 19.8	1.667	2.634	5.6	17.8
11 27	2 15.83	+12 28.6	1.283	2.198	12.6	18.0	11 27	2 18.34	+19 39.1	1.722	2.641	9.6	18.0
12 7	2 10.42	+12 54.5	1.345	2.192	16.9	18.2	12 7	2 13.39	+19 4.1	1.801	2.649	13.2	18.3
<b>520701</b>	2014 QE <sub>466</sub>		11 3.9 74°11	1°1/ 3.1 18			<b>509917</b>	2009 HA		11 3.9 167°84	3°3/ 1.2 18		
9 28	3 1.50	+13 32.3	2.258	3.077	12.6	21.6	9 28	3 3.95	+5 17.0	2.549	3.367	11.3	21.8
10 8	2 56.85	+13 6.8	2.193	3.093	9.6	21.4	10 8	2 58.54	+4 45.0	2.474	3.372	8.7	21.6
10 18	2 50.40	+12 35.2	2.152	3.109	6.1	21.2	10 18	2 51.46	+4 12.4	2.424	3.376	5.9	21.4
10 28	2 42.78	+12 0.3	2.139	3.126	2.6	21.0	10 28	2 43.25	+3 42.6	2.402	3.379	3.6	21.3
11 7	2 34.77	+11 25.6	2.154	3.142	1.9	21.0	11 7	2 34.62	+3 19.1	2.411	3.382	3.9	21.3
11 17	2 27.18	+10 54.9	2.199	3.158	5.3	21.2	11 17	2 26.31	+3 5.0	2.449	3.385	6.3	21.5
11 27	2 20.79	+10 31.8	2.272	3.174	8.6	21.5	11 27	2 19.05	+3 2.4	2.515	3.387	9.1	21.7
12 7	2 16.12	+10 18.6	2.371	3.190	11.4	21.7	12 7	2 13.38	+3 12.2	2.606	3.388	11.6	21.8
<b>73667</b>	1981 ER <sub>45</sub>		11 3.9 274°89	2°4/ 2.4 18			<b>148460</b>	2000 YA <sub>112</sub>		11 4.0 191°94	3°6/ 7.6 18		
9 28	3 3.11	+14 0.1	1.458	2.299	17.1	19.7	9 28	3 3.40	+29 51.8	2.860	3.608	11.9	20.0
10 8	2 59.35	+13 2.1	1.375	2.288	13.2	19.5	10 8	2 58.29	+29 58.6	2.764	3.606	9.8	19.8
10 18	2 52.72	+11 50.7	1.314	2.276	8.6	19.2	10 18	2 51.41	+29 52.2	2.691	3.604	7.3	19.7
10 28	2 43.95	+10 31.1	1.277	2.264	3.8	18.9	10 28	2 43.27	+29 31.9	2.644	3.601	4.9	19.5
11 7	2 34.22	+9 11.0	1.266	2.252	3.5	18.8	11 7	2 34.61	+28 58.6	2.626	3.598	3.6	19.4
11 17	2 24.89	+7 59.3	1.282	2.240	8.3	19.1	11 17	2 26.19	+28 14.6	2.639	3.595	4.7	19.5
11 27	2 17.30	+7 4.2	1.323	2.228	13.2	19.3	11 27	2 18.82	+27 24.4	2.681	3.591	7.0	19.6
12 7	2 12.36	+6 30.6	1.386	2.216	17.4	19.6	12 7	2 13.07	+26 33.0	2.750	3.587	9.5	19.8
<b>219131</b>	1998 UY <sub>41</sub>		11 3.9 31°40	0°0/ 3.8 18			<b>469387</b>	2001 SE <sub>260</sub>		11 4.0 37°24	0°0/ 3.8 16		
9 28	3 9.60	+12 54.1	1.549	2.376	16.9	18.1	9 28	3 4.53	+17 13.5	1.135	1.985	20.3	20.9
10 8	3 3.79	+13 40.4	1.496	2.399	13.0	17.9	10 8	3 0.69	+16 59.9	1.090	2.004	15.6	20.7
10 18	2 55.25	+14 22.0	1.465	2.422	8.5	17.7	10 18	2 53.56	+16 32.1	1.063	2.024	10.2	20.4
10 28	2 44.87	+14 58.8	1.460	2.447	3.5	17.5	10 28	2 44.23	+15 53.5	1.058	2.046	4.2	20.2
11 7	2 33.89	+15 31.5	1.482	2.472	1.5	17.4	11 7	2 34.26	+15 10.1	1.078	2.068	1.8	20.1
11 17	2 23.65	+16 1.6	1.532	2.497	6.3	17.8	11 17	2 25.26	+14 29.2	1.122	2.090	7.5	20.5
11 27	2 15.32	+16 31.6	1.609	2.524	10.5	18.1	11 27	2 18.58	+13 58.1	1.191	2.114	12.6	20.9
12 7	2 9.63	+17 4.2	1.710	2.551	14.1	18.4	12 7	2 14.96	+13 41.6	1.280	2.138	16.8	21.2
<b>147765</b>	2005 QP <sub>32</sub>		11 3.9 54°26	5°1/ 1.5 18			<b>315912</b>	2008 RT <sub>85</sub>		11 4.0 138°06	0°5/ 3.4 18		
9 28	3 6.80	+5 26.5	1.318	2.168	18.1	19.3	9 28	2 59.30	+16 38.6	2.534	3.345	11.6	20.8
10 8	3 1.94	+4 51.7	1.268	2.182	13.9	19.1	10 8	2 55.11	+15 55.1	2.453	3.349	8.9	20.6
10 18	2 54.16	+4 16.6	1.238	2.197	9.4	18.9	10 18	2 49.28	+15 2.9	2.397	3.352	5.7	20.4
10 28	2 44.43	+3 47.5	1.232	2.212	5.6	18.7	10 28	2 42.36	+14 4.9	2.369	3.355	2.3	20.2
11 7	2 34.09	+3 30.4	1.252	2.228	5.9	18.8	11 7	2 35.02	+13 4.7	2.370	3.359	1.4	20.1
11 17	2 24.57	+3 29.8	1.297	2.243	9.6	19.0	11 17	2 28.01	+12 7.0	2.401	3.362	4.8	20.3
11 27	2 17.08	+3 47.7	1.366	2.259	13.7	19.3	11 27	2 22.01	+11 16.1	2.462	3.365	7.9	20.6
12 7	2 12.38	+4 23.5	1.456	2.276	17.3	19.6	12 7	2 17.55	+10 35.5	2.548	3.367	10.7	20.7
<b>375165</b>	2008 CH <sub>179</sub>		11 3.9 198°10	3°4/ 2.0 18			<b>265056</b>	2003 SB <sub>9</sub>		11 4.0 212°59	2°5/ 6.1 18		
9 28	3 7.06	+8 35.4	1.631	2.465	15.9	20.5	9 28	3 2.91	+24 6.1	2.453	3.236	12.7	20.8
10 8	3 1.94	+8 3.8	1.556	2.464	12.3	20.3	10 8	2 58.13	+24 16.0	2.363	3.234	10.2	20.6
10 18	2 54.17	+7 27.9	1.504	2.462	8.1	20.0	10 18	2 51.41	+24 14.6	2.296	3.232	7.2	20.4
10 28	2 44.49	+6 52.4	1.476	2.460	4.2	19.8	10 28	2 43.31	+24 1.7	2.256	3.230	4.1	20.2
11 7	2 34.03	+6 22.6	1.476	2.457	4.2	19.8	11 7	2 34.60	+23 38.6	2.244	3.228	2.5	20.1
11 17	2 24.03	+6 3.6	1.504	2.455	8.1	20.0	11 17	2 26.17	+23 8.0	2.262	3.226	4.7	20.2
11 27	2 15.70	+5 59.2	1.558	2.451	12.3	20.2	11 27	2 18.86	+22 34.4	2.309	3.223	7.8	20.4
12 7	2 9.83	+6 11.1	1.634	2.448	15.9	20.5	12 7	2 13.32	+22 2.2	2.382	3.221	10.7	20.6
<b>12062</b>	Tilmanspohn		11 3.9 95°49	0°8/ 3.4 18			<b>93526</b>	2000 UY		11 4.0 357°39	0°7/ 3.4 18		
9 28	3 4.86	+16 28.4	1.836	2.655	15.0	18.6	9 28	3 1.17	+15 21.2	2.007	2.830	13.	