

EPHEMERIDES

3 8.9

3 9.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>147388</b>	2003 <i>EO</i> <sub>57</sub>		3 8.9	14°24'	11.4°/27.9	18	<b>58682</b>	Alenašolcová		3 9.0	22°14'	1°5'/7.8	18
2 1	11 36.78	+23 50.7	1.120	1.990	17.9	18.2	2 1	11 40.64	+5 31.7	1.417	2.247	17.1	18.5
2 11	11 35.38	+26 3.8	1.082	1.996	14.5	18.0	2 11	11 37.56	+6 3.7	1.351	2.254	13.1	18.3
2 21	11 30.69	+28 11.1	1.064	2.005	12.0	17.9	2 21	11 31.80	+6 49.9	1.305	2.261	8.4	18.0
3 2	11 23.63	+29 56.0	1.068	2.015	11.5	17.9	3 2	11 24.07	+7 44.0	1.284	2.270	3.5	17.8
3 12	11 15.70	+31 4.5	1.094	2.026	13.3	18.0	3 12	11 15.54	+8 37.6	1.289	2.279	2.7	17.7
3 22	11 8.51	+31 30.3	1.141	2.039	16.2	18.2	3 22	11 7.48	+9 22.6	1.319	2.289	7.6	18.0
4 1	11 3.41	+31 14.0	1.206	2.054	19.3	18.4	4 1	11 1.05	+9 52.7	1.374	2.300	12.2	18.3
4 11	11 1.21	+30 21.5	1.286	2.070	22.0	18.7	4 11	10 57.06	+10 4.9	1.450	2.311	16.1	18.6
<b>143276</b>	2003 <i>AA</i> <sub>18</sub>		3 9.0	48°08'	9°6'/29.3	18	<b>469454</b>	2002 <i>PT</i> <sub>164</sub>		3 9.0	267°69'	0°9'/7.9	16
2 1	11 44.83	+25 21.6	1.529	2.368	15.6	19.0	2 1	11 42.03	+4 40.5	2.479	3.272	11.8	23.5
2 11	11 40.74	+27 1.7	1.483	2.379	12.6	18.9	2 11	11 37.77	+5 18.7	2.360	3.243	9.1	23.2
2 21	11 33.79	+28 35.4	1.461	2.391	10.3	18.8	2 21	11 31.62	+6 8.0	2.265	3.213	6.0	23.0
3 2	11 24.84	+29 50.5	1.463	2.403	9.6	18.8	3 2	11 23.99	+7 4.7	2.199	3.183	2.5	22.7
3 12	11 15.20	+30 37.1	1.489	2.415	10.9	18.9	3 12	11 15.53	+8 3.7	2.162	3.152	1.8	22.6
3 22	11 6.22	+30 50.7	1.539	2.427	13.4	19.0	3 22	11 7.05	+8 59.4	2.156	3.121	5.5	22.8
4 1	10 59.10	+30 31.7	1.611	2.440	16.2	19.2	4 1	10 59.37	+9 46.8	2.179	3.089	9.1	23.0
4 11	10 54.58	+29 44.2	1.700	2.453	18.6	19.5	4 11	10 53.19	+10 21.9	2.226	3.056	12.4	23.1
<b>455456</b>	2003 <i>SV</i> <sub>365</sub>		3 9.0	74°95'	1°3'/10.1	18	<b>290653</b>	2005 <i>UG</i> <sub>286</sub>		3 9.0	230°00'	1°9'/11.1	17
2 1	11 44.31	-1 16.8	1.523	2.321	17.7	21.7	2 1	11 40.64	-5 2.6	2.160	2.926	14.2	21.4
2 11	11 40.14	-1 2.1	1.456	2.337	13.8	21.5	2 11	11 36.85	-4 32.3	2.057	2.916	11.4	21.2
2 21	11 33.35	-0 28.2	1.409	2.353	9.3	21.2	2 21	11 31.06	-3 43.1	1.975	2.906	8.0	21.0
3 2	11 24.67	+0 21.1	1.387	2.368	4.4	21.0	3 2	11 23.74	-2 37.3	1.920	2.896	4.3	20.7
3 12	11 15.25	+1 19.1	1.392	2.384	1.7	20.8	3 12	11 15.65	-1 19.6	1.894	2.884	2.0	20.5
3 22	11 6.33	+2 18.0	1.424	2.400	6.2	21.1	3 22	11 7.67	+0 3.4	1.897	2.873	5.0	20.7
4 1	10 59.02	+3 9.9	1.481	2.415	10.8	21.4	4 1	11 0.68	+1 24.3	1.929	2.861	8.8	20.9
4 11	10 54.12	+3 49.3	1.562	2.431	14.7	21.7	4 11	10 55.40	+2 36.6	1.986	2.848	12.3	21.1
<b>499098</b>	2009 <i>FF</i> <sub>70</sub>		3 9.0	289°50'	2°5'/6.9	17	<b>218020</b>	2001 <i>YN</i> <sub>32</sub>		3 9.0	148°47'	0°1'/8.9	18
2 1	11 42.97	+7 42.6	1.567	2.392	16.0	21.9	2 1	11 43.26	+2 30.9	2.074	2.867	13.8	20.9
2 11	11 39.47	+8 23.1	1.474	2.375	12.4	21.7	2 11	11 38.77	+2 57.2	1.991	2.872	10.6	20.7
2 21	11 33.21	+9 16.6	1.402	2.357	8.1	21.4	2 21	11 32.22	+3 35.9	1.932	2.878	7.0	20.4
3 2	11 24.76	+10 17.0	1.355	2.340	3.6	21.1	3 2	11 24.18	+4 23.1	1.899	2.883	2.9	20.2
3 12	11 15.16	+11 15.7	1.335	2.323	3.7	21.0	3 12	11 15.50	+5 13.5	1.896	2.888	1.3	20.1
3 22	11 5.68	+12 4.2	1.342	2.305	8.3	21.2	3 22	11 7.09	+6 1.2	1.922	2.893	5.5	20.4
4 1	10 57.63	+12 35.8	1.373	2.288	13.0	21.4	4 1	10 59.84	+6 41.1	1.975	2.897	9.3	20.6
4 11	10 52.01	+12 47.0	1.426	2.271	17.2	21.7	4 11	10 54.43	+7 9.3	2.053	2.900	12.6	20.8
<b>52517</b>	1996 <i>HZ</i> <sub>23</sub>		3 9.0	19°30'	10°0'/1.8	18	<b>335388</b>	2005 <i>SM</i> <sub>281</sub>		3 9.0	267°01'	1°3'/7.7	17
2 1	11 46.42	+24 59.9	1.308	2.154	17.3	18.9	2 1	11 41.04	+5 21.6	2.084	2.890	13.3	21.6
2 11	11 42.37	+26 13.5	1.259	2.160	14.0	18.7	2 11	11 37.25	+6 2.4	1.984	2.874	10.2	21.3
2 21	11 35.05	+27 20.2	1.230	2.166	11.2	18.5	2 21	11 31.37	+6 55.1	1.907	2.859	6.6	21.1
3 2	11 25.42	+28 7.2	1.224	2.174	10.0	18.5	3 2	11 23.89	+7 55.1	1.858	2.843	2.8	20.8
3 12	11 14.97	+28 24.5	1.242	2.182	11.2	18.6	3 12	11 15.59	+8 56.3	1.837	2.827	2.3	20.7
3 22	11 5.33	+28 7.7	1.283	2.191	14.0	18.7	3 22	11 7.40	+9 52.0	1.845	2.810	6.3	21.0
4 1	10 57.86	+27 18.2	1.344	2.201	17.2	19.0	4 1	11 0.24	+10 36.6	1.881	2.794	10.2	21.2
4 11	10 53.36	+26 1.5	1.423	2.212	20.1	19.2	4 11	10 54.87	+11 6.4	1.939	2.777	13.6	21.3
<b>221242</b>	2005 <i>UQ</i> <sub>216</sub>		3 9.0	127°62'	1°5'/7.4	18	<b>502054</b>	2015 <i>AX</i> <sub>164</sub>		3 9.0	117°52'	1°2'/7.8	17
2 1	11 43.80	+6 28.0	2.243	3.042	12.7	21.3	2 1	11 41.56	+5 0.9	2.030	2.835	13.6	21.5
2 11	11 38.93	+7 10.3	2.170	3.057	9.6	21.1	2 11	11 37.50	+5 41.0	1.951	2.841	10.4	21.3
2 21	11 32.17	+8 1.5	2.121	3.072	6.1	20.9	2 21	11 31.41	+6 32.4	1.896	2.847	6.7	21.1
3 2	11 24.10	+8 56.7	2.101	3.086	2.6	20.7	3 2	11 23.84	+7 30.2	1.868	2.853	2.7	20.8
3 12	11 15.52	+9 50.0	2.111	3.099	2.3	20.7	3 12	11 15.65	+8 28.1	1.868	2.858	2.1	20.8
3 22	11 7.27	+10 36.2	2.150	3.112	5.8	21.0	3 22	11 7.74	+9 19.8	1.897	2.863	6.0	21.0
4 1	11 0.14	+11 11.1	2.218	3.124	9.2	21.2	4 1	11 1.00	+10 0.4	1.954	2.869	9.7	21.3
4 11	10 54.73	+11 32.3	2.309	3.136	12.1	21.4	4 11	10 56.08	+10 26.6	2.034	2.874	13.0	21.5
<b>44657</b>	1999 <i>RK</i> <sub>163</sub>		3 9.0	87°88'	1°9'/10.5	18	<b>384580</b>	2010 <i>HU</i> <sub>108</sub>		3 9.0	191°01'	4°7'/3.0	17
2 1	11 44.85	-2 48.2	1.339	2.141	19.5	19.5	2 1	11 40.30	+17 26.3	2.420	3.243	11.1	20.8
2 11	11 40.96	-2 33.0	1.271	2.152	15.4	19.2	2 11	11 36.31	+18 36.7	2.345	3.242	8.6	20.6
2 21	11 34.11	-1 54.4	1.222	2.164	10.6	19.0	2 21	11 30.52	+19 49.0	2.296	3.242	6.1	20.4
3 2	11 25.06	-0 55.8	1.196	2.176	5.2	18.7	3 2	11 23.45	+20 56.6	2.276	3.241	4.7	20.3
3 12	11 15.09	+0 15.1	1.195	2.187	2.1	18.5	3 12	11 15.81	+21 53.1	2.284	3.240	5.7	20.4
3 22	11 5.63	+1 28.7	1.221	2.199	6.8	18.9	3 22	11 8.41	+22 33.6	2.320	3.239	8.0	20.5
4 1	10 57.99	+2 35.1	1.272	2.210	11.8	19.2	4 1	11 2.01	+22 55.5	2.382	3.238	10.6	20.7
4 11	10 53.06	+3 27.1	1.345	2.221	16.2	19.5	4 11	10 57.20	+22 58.3	2.466	3.237	13.0	20.9
<b>465715</b>	2009 <i>UT</i> <sub>66</sub>		3 9.0	255°68'	2°2'/6.8	17	<b>458251</b>	2010 <i>TZ</i> <sub>105</sub>		3 9.0	338°61'	2°7'/11.3	18
2 1	11 43.16	+8 1.7	2.035	2.845	13.4	22.2	2 1	11 40.25	-4 31.9	1.525	2.318	17.9	21.1
2 11	11 38.96	+8 46.0	1.935	2.828	10.3	21.9	2 11	11 37.30	-4 27.1	1.439	2.313	14.4	20.8
2 21	11 32.53	+9 40.5	1.859	2.811	6.7	21.7	2 21	11 31.71	-3 59.9	1.372	2.309	10.2	20.6
3 2	11 24.38	+10 40.1	1.810	2.793	3.1	21.4	3 2	11 24.10	-3 11.9	1.330	2.306	5.6	20.3
3 12	11 15.36	+11 37.7	1.790	2.775	3.2	21.4	3 12	11 15.51	-2 8.4	1.313	2.303	2.8	20.1
3 22	11 6.43	+12 26.9	1.798	2.757	7.0	21.6	3 22	11 7.14	-0 57.6	1.322	2.300	6.3	20.3
4 1	10 58.59	+13 2.3	1.834	2.738	10.9	21.8	4 1	11 0.22	+0 11.4	1.357	2.297	10.9	20.6
4 11	10 52.65	+13 21.0	1.892	2.719	14.3	22.0	4 11	10 55.64	+1 10.4	1.414	2.295	15.2	20.8
<b>52143</b>	6635 <i>P-L</i>		3 9.0	237°96'	0°9'/8.1	17	<b>16512</b>	1990 <i>VQ</i> <sub>4</sub>		3 9.0	13°44'	5°2'/4.8	18 R
2 1	11 43.31	+3 51.7	2.036	2.834	13.8	20.3							

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>140910</b>	2001 <i>VH</i> <sub>55</sub>		3 9.0 113°45	1°1/10.3	18		<b>359102</b>	2009 <i>AN</i> <sub>47</sub>		3 9.0 252°58	2°4/ 6.8	18	
2 1	11 40.93	- 0 58.2	2.434	3.209	12.5	19.9	2 1	11 41.83	+ 5 55.4	1.651	2.470	15.6	21.0
2 11	11 36.68	- 0 49.3	2.348	3.216	9.8	19.7	2 11	11 38.39	+ 7 1.6	1.562	2.460	12.0	20.7
2 21	11 30.71	- 0 28.2	2.285	3.222	6.6	19.5	2 21	11 32.39	+ 8 23.8	1.495	2.450	7.7	20.5
3 2	11 23.52	+ 0 2.6	2.250	3.229	3.2	19.3	3 2	11 24.40	+ 9 55.1	1.455	2.439	3.4	20.2
3 12	11 15.79	+ 0 39.6	2.244	3.235	1.3	19.2	3 12	11 15.42	+11 25.9	1.442	2.429	3.6	20.2
3 22	11 8.29	+ 1 18.3	2.267	3.241	4.4	19.4	3 22	11 6.62	+12 46.4	1.457	2.418	8.0	20.4
4 1	11 1.73	+ 1 54.3	2.319	3.248	7.7	19.6	4 1	10 59.17	+13 48.8	1.497	2.406	12.5	20.6
4 11	10 56.69	+ 2 23.8	2.397	3.253	10.7	19.8	4 11	10 53.97	+14 28.9	1.558	2.395	16.4	20.8
<b>80156</b>	1999 <i>TV</i> <sub>211</sub>		3 9.0 141°98	2°9/ 6.7	18		<b>343134</b>	2009 <i>FG</i> <sub>5</sub>		3 9.0 64°59	0°6/ 9.7	17	
2 1	11 45.35	+ 7 21.0	1.442	2.267	17.1	19.8	2 1	11 39.08	- 0 52.8	2.145	2.931	13.6	20.8
2 11	11 41.25	+ 8 19.2	1.370	2.271	13.1	19.5	2 11	11 35.42	- 0 14.5	2.074	2.950	10.5	20.6
2 21	11 34.28	+ 9 31.7	1.320	2.276	8.4	19.3	2 21	11 29.94	+ 0 38.4	2.026	2.969	7.0	20.4
3 2	11 25.15	+10 50.1	1.296	2.280	3.9	19.0	3 2	11 23.20	+ 1 42.1	2.005	2.987	3.1	20.2
3 12	11 15.09	+12 4.3	1.298	2.284	4.1	19.0	3 12	11 15.99	+ 2 50.9	2.014	3.006	1.1	20.1
3 22	11 5.47	+13 4.8	1.326	2.287	8.7	19.3	3 22	11 9.10	+ 3 58.3	2.051	3.025	4.8	20.4
4 1	10 57.57	+13 45.0	1.380	2.291	13.3	19.6	4 1	11 3.28	+ 4 58.8	2.116	3.044	8.4	20.6
4 11	10 52.28	+14 2.5	1.454	2.294	17.2	19.8	4 11	10 59.11	+ 5 47.7	2.207	3.063	11.5	20.9
<b>163587</b>	2002 <i>TX</i> <sub>190</sub>		3 9.0 126°52	0°7/ 9.7	18		<b>98392</b>	2000 <i>UC</i>		3 9.0 153°32	0°4/ 8.6	18	
2 1	11 46.47	+ 2 12.2	2.387	3.164	12.7	19.7	2 1	11 47.33	+ 3 35.8	2.058	2.847	14.0	20.5
2 11	11 40.92	+ 2 0.5	2.301	3.172	9.9	19.6	2 11	11 41.87	+ 4 1.6	1.977	2.857	10.8	20.3
2 21	11 33.47	+ 1 57.7	2.238	3.179	6.6	19.4	2 21	11 34.24	+ 4 38.8	1.920	2.866	7.0	20.1
3 2	11 24.68	+ 2 1.9	2.204	3.186	3.0	19.1	3 2	11 25.04	+ 5 23.4	1.891	2.875	2.9	19.9
3 12	11 15.31	+ 2 10.1	2.200	3.192	1.1	19.0	3 12	11 15.20	+ 6 9.8	1.891	2.882	1.5	19.8
3 22	11 6.21	+ 2 18.9	2.226	3.199	4.7	19.3	3 22	11 5.68	+ 6 52.3	1.921	2.889	5.7	20.1
4 1	10 58.17	+ 2 25.1	2.282	3.205	8.1	19.5	4 1	10 57.42	+ 7 26.1	1.979	2.895	9.5	20.3
4 11	10 51.82	+ 2 25.8	2.363	3.211	11.1	19.7	4 11	10 51.11	+ 7 48.0	2.062	2.901	12.9	20.5
<b>138647</b>	2000 <i>RK</i> <sub>39</sub>		3 9.0 117°43	5°5/14.9	17		<b>304876</b>	2007 <i>RR</i> <sub>151</sub>		3 9.0 179°18	2°4/11.3	18	
2 1	11 42.26	-13 47.8	2.472	3.178	14.1	20.0	2 1	11 44.35	- 5 10.8	1.943	2.708	15.6	21.8
2 11	11 37.82	-14 25.4	2.377	3.181	11.9	19.8	2 11	11 39.85	- 4 55.9	1.852	2.710	12.5	21.5
2 21	11 31.55	-14 45.7	2.303	3.184	9.5	19.7	2 21	11 33.09	- 4 21.9	1.782	2.711	8.8	21.3
3 2	11 23.91	-14 47.5	2.253	3.187	7.1	19.5	3 2	11 24.62	- 3 30.5	1.738	2.711	4.9	21.1
3 12	11 15.62	-14 31.6	2.231	3.190	5.6	19.4	3 12	11 15.36	- 2 26.4	1.722	2.711	2.5	20.9
3 22	11 7.47	-14 0.9	2.237	3.193	6.0	19.4	3 22	11 6.31	- 1 16.4	1.735	2.711	5.4	21.1
4 1	11 0.26	-13 20.0	2.271	3.196	8.1	19.6	4 1	10 58.49	- 0 7.8	1.777	2.709	9.4	21.3
4 11	10 54.62	-12 34.7	2.331	3.199	10.5	19.7	4 11	10 52.65	+ 0 52.8	1.842	2.707	13.0	21.6
<b>206221</b>	2002 <i>VH</i> <sub>62</sub>		3 9.0 170°13	0°0/ 8.8	18		<b>291092</b>	2005 <i>YS</i> <sub>133</sub>		3 9.0 237°03	1°2/ 7.9	17	
2 1	11 40.98	+ 2 11.5	2.955	3.732	10.5	21.8	2 1	11 42.70	+ 5 36.2	2.038	2.843	13.6	21.5
2 11	11 36.42	+ 2 37.7	2.864	3.736	8.1	21.6	2 11	11 38.49	+ 6 7.1	1.947	2.837	10.4	21.3
2 21	11 30.41	+ 3 13.0	2.797	3.740	5.3	21.4	2 21	11 32.16	+ 6 48.6	1.879	2.830	6.8	21.0
3 2	11 23.37	+ 3 54.5	2.760	3.743	2.2	21.2	3 2	11 24.22	+ 7 36.6	1.839	2.823	2.8	20.8
3 12	11 15.87	+ 4 38.6	2.754	3.746	0.9	21.1	3 12	11 15.53	+ 8 25.0	1.827	2.816	2.2	20.7
3 22	11 8.55	+ 5 21.2	2.778	3.748	4.1	21.4	3 22	11 7.03	+ 9 7.9	1.843	2.809	6.1	20.9
4 1	11 2.00	+ 5 58.9	2.832	3.749	7.0	21.5	4 1	10 59.66	+ 9 40.3	1.887	2.802	10.0	21.2
4 11	10 56.71	+ 6 28.6	2.912	3.750	9.5	21.7	4 11	10 54.15	+ 9 59.0	1.955	2.795	13.4	21.4
<b>17008</b>	1999 <i>CL</i> <sub>65</sub>		3 9.0 166°33	3°2/12.8	18		<b>437444</b>	2013 <i>YG</i> <sub>9</sub>		3 9.0 290°48	6°1/15.2	17	
2 1	11 40.57	- 8 28.7	2.556	3.293	12.9	19.0	2 1	11 41.39	-14 47.9	2.274	2.982	15.1	21.0
2 11	11 36.40	- 8 29.2	2.460	3.296	10.6	18.8	2 11	11 37.41	-15 26.3	2.174	2.977	12.9	20.8
2 21	11 30.55	- 8 13.9	2.387	3.299	7.8	18.6	2 21	11 31.43	-15 45.4	2.094	2.973	10.4	20.6
3 2	11 23.47	- 7 43.5	2.340	3.301	5.0	18.5	3 2	11 23.93	-15 43.7	2.038	2.969	7.9	20.5
3 12	11 15.82	- 7 0.7	2.322	3.303	3.3	18.3	3 12	11 15.66	-15 21.6	2.008	2.965	6.3	20.4
3 22	11 8.34	- 6 9.7	2.333	3.305	4.6	18.4	3 22	11 7.50	-14 42.3	2.006	2.961	6.7	20.4
4 1	11 1.74	- 5 15.4	2.374	3.306	7.3	18.6	4 1	11 0.31	-13 51.0	2.031	2.958	8.8	20.5
4 11	10 56.59	- 4 23.3	2.440	3.307	10.1	18.8	4 11	10 54.82	-12 54.5	2.081	2.954	11.4	20.6
<b>170899</b>	2004 <i>VR</i> <sub>48</sub>		3 9.0 265°20	1°8/ 7.4	17		<b>271822</b>	2004 <i>TE</i> <sub>145</sub>		3 9.0 101°54	1°9/ 7.2	17	
2 1	11 42.83	+ 5 5.9	1.624	2.441	15.9	21.1	2 1	11 42.88	+ 7 34.4	2.013	2.823	13.5	20.9
2 11	11 39.29	+ 5 57.1	1.528	2.424	12.3	20.8	2 11	11 38.51	+ 8 12.5	1.939	2.832	10.3	20.7
2 21	11 33.07	+ 7 4.8	1.454	2.407	8.0	20.5	2 21	11 32.06	+ 8 59.5	1.889	2.841	6.6	20.4
3 2	11 24.72	+ 8 23.3	1.405	2.390	3.4	20.2	3 2	11 24.14	+ 9 50.2	1.866	2.850	2.9	20.2
3 12	11 15.24	+ 9 43.6	1.383	2.372	3.0	20.1	3 12	11 15.62	+10 38.2	1.872	2.859	2.8	20.2
3 22	11 5.86	+10 56.2	1.389	2.354	7.9	20.3	3 22	11 7.44	+11 17.9	1.906	2.868	6.4	20.5
4 1	10 57.81	+11 53.2	1.420	2.336	12.6	20.6	4 1	11 0.47	+11 44.9	1.968	2.876	10.0	20.7
4 11	10 52.10	+12 29.6	1.473	2.318	16.8	20.8	4 11	10 55.38	+11 57.2	2.052	2.885	13.2	20.9
<b>156516</b>	2002 <i>CR</i> <sub>215</sub>		3 9.0 70°78	0°9/ 8.1	18		<b>463423</b>	2013 <i>JL</i> <sub>25</sub>		3 9.0 129°82	4°6/ 4.7	18	
2 1	11 41.09	+ 3 57.0	1.863	2.670	14.5	20.4	2 1	11 45.53	+13 24.1	1.760	2.584	14.5	21.4
2 11	11 37.34	+ 4 36.2	1.784	2.675	11.1	20.2	2 11	11 40.85	+14 35.7	1.695	2.595	11.1	21.2
2 21	11 31.40	+ 5 28.6	1.728	2.679	7.2	20.0	2 21	11 33.73	+15 53.3	1.653	2.605	7.4	21.0
3 2	11 23.88	+ 6 29.3	1.698	2.683	2.9	19.7	3 2	11 24.87	+17 8.2	1.638	2.614	4.8	20.9
3 12	11 15.66	+ 7 31.3	1.697	2.688	2.0	19.6	3 12	11 15.31	+18 11.6	1.651	2.623	5.7	20.9
3 22	11 7.74	+ 8 27.8	1.724	2.692	6.2	19.9	3 22	11 6.19	+18 56.7	1.692	2.632	9.0	21.1
4 1	11 1.06	+ 9 12.9	1.777	2.697	10.2	20.2	4 1	10 58.56	+19 19.9	1.758	2.640	12.5	21.4
4 11	10 56.34	+ 9 42.9	1.854	2.701	13.7	20.4	4 11	10 53.16	+19 20.9	1.845	2.647	15.6	21.6
<b>226756</b>	2004 <i>RU</i> <sub>61</sub>		3 9.0 248°07	0°3/ 9.3	18		<b>34676</b>	2000 <i>YF</i> <sub>126</sub>		3 9.0 233°72	4°3/ 2.7	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>306983</b>	2001 <i>VD</i> <sub>112</sub>		3 9.0 39°32'	3°9/ 4.9 18			<b>412874</b>	2014 <i>QK</i> <sub>18</sub>		3 9.0 259°39'	1°3/10.1 17		
2 1	11 42.22	+15 2.0	2.217	3.038	12.1	20.2	2 1	11 44.64	- 0 56.0	1.675	2.466	16.6	22.3
2 11	11 37.87	+15 45.0	2.144	3.041	9.2	20.0	2 11	11 40.65	- 0 47.1	1.573	2.450	13.2	22.0
2 21	11 31.59	+16 30.6	2.094	3.044	6.3	19.8	2 21	11 33.98	- 0 20.2	1.492	2.434	9.1	21.7
3 2	11 23.93	+17 12.9	2.072	3.047	4.1	19.7	3 2	11 25.15	+ 0 22.5	1.436	2.417	4.4	21.4
3 12	11 15.71	+17 46.2	2.079	3.050	4.8	19.7	3 12	11 15.15	+ 1 15.9	1.407	2.399	1.7	21.2
3 22	11 7.80	+18 5.9	2.114	3.054	7.5	19.9	3 22	11 5.20	+ 2 12.7	1.406	2.381	6.4	21.4
4 1	11 1.02	+18 9.7	2.175	3.057	10.4	20.1	4 1	10 56.55	+ 3 5.2	1.431	2.363	11.2	21.6
4 11	10 55.98	+17 57.0	2.259	3.061	13.1	20.3	4 11	10 50.21	+ 3 46.8	1.479	2.345	15.6	21.9
<b>268077</b>	2004 <i>RF</i> <sub>104</sub>		3 9.0 260°85'	3°6/12.4 17			<b>162601</b>	2000 <i>SB</i> <sub>72</sub>		3 9.0 149°42'	0°7/ 8.3 18		
2 1	11 42.58	- 7 27.3	2.132	2.883	14.8	20.9	2 1	11 43.58	+ 2 14.1	1.823	2.623	15.1	20.5
2 11	11 38.51	- 7 37.2	2.020	2.865	12.1	20.6	2 11	11 39.31	+ 3 8.1	1.745	2.630	11.7	20.3
2 21	11 32.27	- 7 29.5	1.929	2.847	9.0	20.4	2 21	11 32.74	+ 4 18.0	1.689	2.638	7.6	20.1
3 2	11 24.34	- 7 4.2	1.864	2.829	5.7	20.2	3 2	11 24.48	+ 5 38.4	1.660	2.644	3.1	19.8
3 12	11 15.49	- 6 23.6	1.827	2.810	3.6	20.0	3 12	11 15.50	+ 7 1.3	1.659	2.651	1.9	19.7
3 22	11 6.65	- 5 32.3	1.818	2.791	5.5	20.1	3 22	11 6.84	+ 8 18.6	1.688	2.656	6.4	20.0
4 1	10 58.78	- 4 36.4	1.837	2.771	9.0	20.2	4 1	10 59.49	+ 9 23.3	1.743	2.661	10.5	20.3
4 11	10 52.70	- 3 42.6	1.881	2.751	12.5	20.4	4 11	10 54.21	+10 10.8	1.822	2.666	14.1	20.5
<b>496905</b>	2001 <i>QO</i> <sub>204</sub>		3 9.0 165°91'	1°8/11.0 17			<b>512476</b>	2016 <i>QP</i> <sub>61</sub>		3 9.0 260°98'	2°5/11.9 17		
2 1	11 43.28	- 3 59.0	2.421	3.179	13.0	22.4	2 1	11 39.71	- 6 20.5	2.583	3.333	12.5	22.0
2 11	11 38.54	- 3 41.0	2.329	3.185	10.4	22.2	2 11	11 35.89	- 6 12.1	2.467	3.314	10.2	21.8
2 21	11 31.97	- 3 8.2	2.261	3.190	7.2	22.0	2 21	11 30.34	- 5 48.4	2.374	3.296	7.4	21.6
3 2	11 24.10	- 2 22.7	2.220	3.195	3.8	21.8	3 2	11 23.47	- 5 10.5	2.308	3.276	4.4	21.4
3 12	11 15.64	- 1 28.4	2.209	3.199	1.8	21.7	3 12	11 15.91	- 4 21.0	2.271	3.257	2.5	21.2
3 22	11 7.38	- 0 30.4	2.228	3.202	4.5	21.9	3 22	11 8.38	- 3 24.4	2.263	3.237	4.4	21.3
4 1	11 0.10	+ 0 25.8	2.276	3.204	7.8	22.1	4 1	11 1.63	- 2 25.8	2.284	3.217	7.6	21.5
4 11	10 54.41	+ 1 15.5	2.350	3.206	10.9	22.3	4 11	10 56.29	- 1 30.7	2.332	3.196	10.6	21.6
<b>502024</b>	2015 <i>AR</i> <sub>87</sub>		3 9.0 184°44'	2°5/ 6.4 17			<b>51316</b>	2000 <i>KZ</i> <sub>73</sub>		3 9.0 301°54'	1°2/ 7.7 18		
2 1	11 42.43	+ 8 45.7	2.130	2.941	12.8	21.8	2 1	11 38.11	+ 3 51.9	2.139	2.945	13.0	19.1
2 11	11 38.16	+ 9 38.9	2.047	2.941	9.8	21.6	2 11	11 34.86	+ 4 50.4	2.051	2.942	9.9	18.8
2 21	11 31.86	+10 40.9	1.989	2.941	6.3	21.4	2 21	11 29.73	+ 6 2.2	1.988	2.939	6.4	18.6
3 2	11 24.08	+11 45.9	1.958	2.940	3.1	21.2	3 2	11 23.21	+ 7 22.0	1.951	2.936	2.6	18.4
3 12	11 15.64	+12 47.1	1.956	2.940	3.4	21.2	3 12	11 16.04	+ 8 43.2	1.944	2.934	2.1	18.3
3 22	11 7.45	+13 38.5	1.983	2.938	6.8	21.4	3 22	11 9.07	+ 9 58.6	1.966	2.931	5.9	18.6
4 1	11 0.36	+14 15.4	2.038	2.937	10.2	21.6	4 1	11 3.10	+11 2.1	2.015	2.929	9.6	18.8
4 11	10 55.06	+14 35.7	2.115	2.935	13.3	21.8	4 11	10 58.78	+11 49.9	2.088	2.926	12.8	19.0
<b>297389</b>	2000 <i>QE</i> <sub>81</sub>		3 9.0 254°61'	0°5/ 9.6 17			<b>147902</b>	2006 <i>SJ</i> <sub>54</sub>		3 9.0 183°38'	6°0/18.7 18		
2 1	11 39.41	- 0 2.2	2.665	3.442	11.5	22.0	2 1	11 38.84	-23 11.0	3.156	3.784	12.6	20.3
2 11	11 35.56	+ 0 26.9	2.553	3.425	9.0	21.8	2 11	11 34.90	-23 11.3	3.048	3.785	11.1	20.2
2 21	11 30.07	+ 1 8.3	2.466	3.406	6.0	21.6	2 21	11 29.50	-22 51.8	2.960	3.784	9.4	20.1
3 2	11 23.32	+ 1 59.4	2.406	3.388	2.7	21.3	3 2	11 23.05	-22 11.6	2.895	3.784	7.6	19.9
3 12	11 15.95	+ 2 56.1	2.377	3.369	1.0	21.2	3 12	11 16.11	-21 11.5	2.857	3.783	6.3	19.9
3 22	11 8.63	+ 3 53.7	2.377	3.350	4.4	21.4	3 22	11 9.30	-19 54.7	2.848	3.781	6.1	19.8
4 1	11 2.06	+ 4 47.2	2.407	3.330	7.7	21.6	4 1	11 3.23	-18 26.0	2.867	3.779	7.1	19.9
4 11	10 56.85	+ 5 32.4	2.462	3.310	10.7	21.7	4 11	10 58.40	-16 51.5	2.914	3.777	8.8	20.0
<b>82984</b>	2001 <i>QV</i> <sub>146</sub>		3 9.0 125°26'	6°5/ 1.6 18			<b>200882</b>	2001 <i>YT</i> <sub>127</sub>		3 9.0 141°41'	0°7/ 9.6 18		
2 1	11 45.73	+25 4.5	2.426	3.240	11.4	19.7	2 1	11 47.34	+ 0 37.1	1.790	2.577	15.8	20.8
2 11	11 40.41	+26 2.4	2.366	3.248	9.1	19.5	2 11	11 42.21	+ 0 51.4	1.711	2.588	12.4	20.6
2 21	11 33.14	+26 55.5	2.331	3.256	7.2	19.4	2 21	11 34.64	+ 1 20.9	1.655	2.597	8.3	20.3
3 2	11 24.55	+27 37.2	2.323	3.264	6.5	19.4	3 2	11 25.29	+ 2 1.9	1.624	2.607	3.7	20.1
3 12	11 15.48	+28 1.7	2.343	3.271	7.4	19.5	3 12	11 15.18	+ 2 49.0	1.623	2.615	1.3	19.9
3 22	11 6.80	+28 6.0	2.391	3.278	9.3	19.6	3 22	11 5.44	+ 3 35.6	1.650	2.623	5.9	20.2
4 1	10 59.33	+27 49.6	2.463	3.285	11.5	19.7	4 1	10 57.14	+ 4 15.7	1.704	2.630	10.2	20.5
4 11	10 53.66	+27 14.2	2.557	3.292	13.5	19.9	4 11	10 51.04	+ 4 44.6	1.782	2.637	13.9	20.8
<b>21644</b>	Vinay		3 9.0 118°45'	0°3/ 8.7 18			<b>190588</b>	2000 <i>SN</i> <sub>363</sub>		3 9.0 173°52'	2°3/12.2 18		
2 1	11 43.57	+ 0 42.2	1.884	2.676	15.0	19.1	2 1	11 40.39	- 6 29.5	3.149	3.885	10.7	21.9
2 11	11 39.12	+ 1 39.8	1.813	2.694	11.5	19.0	2 11	11 35.95	- 6 27.5	3.050	3.888	8.7	21.8
2 21	11 32.49	+ 2 53.8	1.765	2.711	7.5	18.7	2 21	11 30.11	- 6 13.6	2.974	3.890	6.3	21.6
3 2	11 24.33	+ 4 18.7	1.744	2.728	3.1	18.5	3 2	11 23.29	- 5 48.7	2.927	3.892	3.8	21.4
3 12	11 15.57	+ 5 46.8	1.752	2.744	1.5	18.4	3 12	11 16.02	- 5 15.0	2.909	3.894	2.3	21.3
3 22	11 7.19	+ 7 9.8	1.789	2.759	5.9	18.7	3 22	11 8.88	- 4 35.9	2.923	3.895	3.7	21.4
4 1	11 0.12	+ 8 20.8	1.855	2.774	9.9	19.0	4 1	11 2.45	- 3 54.9	2.966	3.895	6.2	21.6
4 11	10 55.04	+ 9 15.4	1.944	2.788	13.3	19.2	4 11	10 57.19	- 3 15.9	3.036	3.895	8.6	21.8
<b>295423</b>	2008 <i>KB</i> <sub>13</sub>		3 9.0 240°68'	0°7/ 9.8 17			<b>337756</b>	2001 <i>UL</i> <sub>115</sub>		3 9.0 160°85'	0°3/ 9.4 17		
2 1	11 42.16	- 0 37.9	2.277	3.055	13.2	21.9	2 1	11 39.63	+ 0 48.2	2.953	3.728	10.5	22.2
2 11	11 37.97	- 0 10.5	2.168	3.039	10.4	21.7	2 11	11 35.42	+ 1 18.9	2.863	3.733	8.1	22.0
2 21	11 31.80	+ 0 31.6	2.083	3.023	7.0	21.4	2 21	11 29.78	+ 1 59.6	2.798	3.739	5.4	21.8
3 2	11 24.10	+ 1 25.6	2.025	3.007	3.2	21.1	3 2	11 23.15	+ 2 47.5	2.762	3.744	2.3	21.6
3 12	11 15.62	+ 2 26.8	1.997	2.989	1.2	20.9	3 12	11 16.09	+ 3 38.8	2.756	3.749	0.9	21.5
3 22	11 7.19	+ 3 29.5	1.998	2.971	5.0	21.2	3 22	11 9.19	+ 4 29.4	2.782	3.753	3.9	21.8
4 1	10 59.69	+ 4 27.6	2.028	2.953	8.9	21.4	4 1	11 3.05	+ 5 15.3	2.836	3.757	6.8	21.9
4 11	10 53.85	+ 5 16.1	2.083	2.934	12.3	21.6	4 11	10 58.15	+ 5 53.3	2.917	3.760	9.4	22.1
<b>496161</b>	2010 <i>VJ</i> <sub>208</sub>		3 9.0 69°91'	2°0/10.8 18			<b>466702</b>	2014 <i>WD</i> <sub>403</sub>		3 9.0 42°19'	5°7/14.5 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>450448</b>	2005 <i>UP</i> <sub>443</sub>		3 9.0 114°02'	2°8'/11.2	18		<b>257586</b>	1999 <i>JK</i> <sub>39</sub>		3 9.0 314°20'	2°7'/7.3	17	
2 1	11 46.37	- 4 10.2	1.520	2.304	18.4	21.5	2 1	11 42.18	+ 7 53.0	1.276	2.115	18.1	20.3
2 11	11 41.89	- 4 11.8	1.445	2.314	14.7	21.2	2 11	11 39.59	+ 8 20.0	1.183	2.091	14.1	20.0
2 21	11 34.65	- 3 52.2	1.390	2.325	10.3	21.0	2 21	11 33.76	+ 9 1.4	1.110	2.068	9.3	19.6
3 2	11 25.35	- 3 13.2	1.359	2.335	5.6	20.8	3 2	11 25.24	+ 9 50.9	1.060	2.045	4.2	19.3
3 12	11 15.16	- 2 20.2	1.354	2.344	2.8	20.6	3 12	11 15.21	+10 39.0	1.034	2.023	4.0	19.2
3 22	11 5.39	- 1 20.8	1.377	2.354	6.3	20.8	3 22	11 5.22	+11 16.0	1.033	2.001	9.4	19.4
4 1	10 57.26	+ 0 23.4	1.426	2.362	10.9	21.1	4 1	10 56.89	+11 34.5	1.054	1.980	14.9	19.6
4 11	10 51.64	+ 0 24.8	1.497	2.371	15.0	21.4	4 11	10 51.47	+11 30.4	1.095	1.960	19.8	19.9
<b>318455</b>	2005 <i>EW</i> <sub>8</sub>		3 9.0 199°58'	0°0'/8.9	17		<b>374082</b>	2004 <i>RU</i> <sub>168</sub>		3 9.0 167°58'	1°5'/10.9	16	
2 1	11 41.37	+ 2 8.0	2.188	2.980	13.2	20.8	2 1	11 40.49	- 4 43.1	2.427	3.187	12.9	21.9
2 11	11 37.30	+ 2 30.6	2.098	2.979	10.2	20.6	2 11	11 36.44	- 4 2.3	2.334	3.191	10.3	21.7
2 21	11 31.29	+ 3 5.1	2.032	2.978	6.7	20.4	2 21	11 30.65	- 3 4.8	2.265	3.195	7.1	21.5
3 2	11 23.86	+ 3 48.5	1.993	2.977	2.9	20.2	3 2	11 23.60	- 1 53.4	2.223	3.199	3.7	21.3
3 12	11 15.79	+ 4 35.5	1.983	2.975	1.2	20.0	3 12	11 15.98	- 0 32.9	2.210	3.201	1.6	21.2
3 22	11 7.92	+ 5 21.0	2.002	2.974	5.2	20.3	3 22	11 8.55	+ 0 50.3	2.229	3.204	4.4	21.4
4 1	11 1.08	+ 5 59.9	2.049	2.972	8.9	20.5	4 1	11 2.05	+ 2 10.1	2.276	3.205	7.8	21.6
4 11	10 55.94	+ 6 28.3	2.121	2.971	12.1	20.7	4 11	10 57.06	+ 3 20.9	2.350	3.206	10.9	21.8
<b>258873</b>	2002 <i>PO</i> <sub>190</sub>		3 9.0 144°35'	4°3'/4.7	18		<b>213772</b>	2003 <i>DF</i> <sub>13</sub>		3 9.0 325°85'	0°9'/7.9	18	
2 1	11 44.40	+12 56.8	1.914	2.735	13.7	21.2	2 1	11 37.73	+ 4 0.3	2.112	2.919	13.1	20.0
2 11	11 39.85	+14 10.0	1.845	2.743	10.4	21.0	2 11	11 34.65	+ 4 44.1	2.021	2.912	10.0	19.8
2 21	11 33.04	+15 29.5	1.799	2.751	7.0	20.8	2 21	11 29.65	+ 5 40.5	1.953	2.904	6.5	19.6
3 2	11 24.60	+16 47.3	1.782	2.758	4.4	20.6	3 2	11 23.22	+ 6 45.0	1.912	2.897	2.6	19.3
3 12	11 15.50	+17 54.9	1.793	2.765	5.3	20.7	3 12	11 16.13	+ 7 51.4	1.900	2.890	1.9	19.2
3 22	11 6.77	+18 45.8	1.832	2.771	8.5	20.9	3 22	11 9.20	+ 8 53.2	1.916	2.883	5.8	19.5
4 1	10 59.36	+19 16.1	1.896	2.777	11.8	21.1	4 1	11 3.27	+ 9 44.8	1.959	2.877	9.5	19.7
4 11	10 54.00	+19 25.2	1.983	2.782	14.8	21.3	4 11	10 59.01	+10 22.0	2.026	2.871	12.8	19.9
<b>432527</b>	2010 <i>GJ</i> <sub>101</sub>		3 9.0 301°75'	3°2'/5.7	16		<b>66564</b>	1999 <i>RU</i> <sub>137</sub>		3 9.0 115°18'	0°1'/8.9	18	
2 1	11 39.85	+10 42.7	2.023	2.846	13.0	21.8	2 1	11 43.90	+ 0 53.8	1.824	2.618	15.3	19.6
2 11	11 36.49	+11 36.1	1.924	2.824	10.0	21.5	2 11	11 39.47	+ 1 40.9	1.753	2.635	11.8	19.4
2 21	11 30.99	+12 38.3	1.849	2.803	6.5	21.3	2 21	11 32.79	+ 2 44.1	1.704	2.651	7.7	19.2
3 2	11 23.82	+13 43.3	1.801	2.782	3.6	21.0	3 2	11 24.52	+ 3 58.4	1.682	2.666	3.2	19.0
3 12	11 15.81	+14 43.6	1.780	2.760	4.2	21.0	3 12	11 15.61	+ 5 16.3	1.689	2.681	1.4	18.9
3 22	11 7.88	+15 32.6	1.788	2.739	7.7	21.2	3 22	11 7.10	+ 6 30.0	1.724	2.695	5.9	19.2
4 1	11 1.00	+16 5.2	1.822	2.719	11.4	21.4	4 1	10 59.94	+ 7 32.7	1.787	2.709	10.0	19.5
4 11	10 55.96	+16 18.8	1.877	2.698	14.7	21.5	4 11	10 54.83	+ 8 20.0	1.873	2.722	13.5	19.7
<b>115341</b>	2003 <i>SS</i> <sub>226</sub>		3 9.0 158°04'	1°6'/10.9	17		<b>413816</b>	2006 <i>PE</i> <sub>11</sub>		3 9.0 209°99'	0°4'/9.5	17	
2 1	11 39.48	- 3 54.3	2.194	2.966	13.8	20.2	2 1	11 44.73	+ 0 41.8	2.160	2.941	13.7	22.2
2 11	11 35.86	- 3 26.5	2.104	2.968	10.9	20.0	2 11	11 40.00	+ 1 5.2	2.061	2.934	10.7	22.0
2 21	11 30.36	- 2 41.7	2.036	2.970	7.6	19.8	2 21	11 33.16	+ 1 42.2	1.985	2.927	7.2	21.7
3 2	11 23.49	- 1 42.7	1.995	2.971	3.9	19.5	3 2	11 24.72	+ 2 29.9	1.936	2.919	3.2	21.5
3 12	11 15.99	- 0 34.2	1.982	2.973	1.7	19.4	3 12	11 15.50	+ 3 23.3	1.917	2.910	1.2	21.3
3 22	11 8.69	+ 0 37.5	1.998	2.974	4.7	19.6	3 22	11 6.41	+ 4 16.6	1.928	2.900	5.3	21.6
4 1	11 2.40	+ 1 46.1	2.043	2.975	8.4	19.8	4 1	10 58.39	+ 5 4.1	1.967	2.890	9.2	21.8
4 11	10 57.75	+ 2 46.0	2.113	2.976	11.6	20.0	4 11	10 52.17	+ 5 41.3	2.031	2.879	12.7	22.0
<b>399392</b>	2001 <i>SK</i> <sub>197</sub>		3 9.0 165°79'	0°4'/9.5	18		<b>361702</b>	2007 <i>VN</i> <sub>195</sub>		3 9.0 282°25'	2°3'/10.8	16	
2 1	11 45.34	- 0 18.0	1.895	2.680	15.2	22.8	2 1	11 42.51	- 3 8.0	1.554	2.347	17.6	21.4
2 11	11 40.62	+ 0 19.3	1.810	2.686	11.9	22.6	2 11	11 39.22	- 3 4.4	1.454	2.331	14.2	21.2
2 21	11 33.60	+ 1 13.4	1.748	2.691	7.9	22.3	2 21	11 33.18	- 2 39.8	1.375	2.314	10.0	20.9
3 2	11 24.89	+ 2 20.5	1.713	2.695	3.5	22.1	3 2	11 24.89	- 1 55.5	1.319	2.297	5.3	20.5
3 12	11 15.41	+ 3 33.8	1.706	2.699	1.3	21.9	3 12	11 15.39	- 0 56.6	1.289	2.280	2.4	20.3
3 22	11 6.21	+ 4 45.9	1.729	2.702	5.8	22.2	3 22	11 5.94	+ 0 9.5	1.286	2.264	6.5	20.5
4 1	10 58.30	+ 5 49.6	1.780	2.703	10.0	22.5	4 1	10 57.84	+ 1 13.6	1.309	2.247	11.5	20.7
4 11	10 52.44	+ 6 39.9	1.854	2.705	13.6	22.7	4 11	10 52.16	+ 2 7.7	1.353	2.230	16.1	21.0
<b>169628</b>	2002 <i>GE</i> <sub>171</sub>		3 9.0 289°24'	1°9'/10.4	17		<b>39343</b>	2002 <i>AV</i> <sub>58</sub>		3 9.0 4°21'	0°6'/8.5	18	
2 1	11 42.72	- 1 45.6	1.545	2.343	17.5	20.3	2 1	11 39.69	+ 2 23.3	1.767	2.576	15.1	19.4
2 11	11 39.39	- 1 44.1	1.446	2.326	14.0	20.0	2 11	11 36.47	+ 3 8.2	1.685	2.576	11.7	19.2
2 21	11 33.29	- 1 23.2	1.367	2.309	9.7	19.7	2 21	11 30.99	+ 4 9.2	1.625	2.576	7.6	19.0
3 2	11 24.93	- 0 44.5	1.312	2.292	4.9	19.4	3 2	11 23.82	+ 5 21.1	1.592	2.576	3.1	18.7
3 12	11 15.34	+ 0 6.9	1.283	2.275	2.1	19.2	3 12	11 15.90	+ 6 36.4	1.585	2.577	1.8	18.6
3 22	11 5.81	+ 1 3.7	1.281	2.258	6.6	19.4	3 22	11 8.23	+ 7 47.2	1.607	2.578	6.3	18.9
4 1	10 57.65	+ 1 57.6	1.304	2.241	11.6	19.6	4 1	11 1.82	+ 8 46.3	1.655	2.578	10.6	19.1
4 11	10 51.91	+ 2 41.0	1.349	2.224	16.2	19.9	4 11	10 57.42	+ 9 29.1	1.726	2.580	14.3	19.4
<b>299268</b>	2005 <i>NS</i> <sub>75</sub>		3 9.0 211°04'	0°1'/9.2	17		<b>328353</b>	2008 <i>LG</i> <sub>8</sub>		3 9.0 324°34'	0°0'/8.9	17	
2 1	11 39.81	+ 1 50.5	2.811	3.592	10.9	22.5	2 1	11 36.65	- 0 42.2	1.524	2.337	16.9	20.0
2 11	11 35.71	+ 2 16.2	2.712	3.586	8.4	22.3	2 11	11 34.61	+ 0 11.7	1.433	2.325	13.3	19.7
2 21	11 30.08	+ 2 51.9	2.638	3.581	5.5	22.1	2 21	11 30.05	+ 1 29.3	1.363	2.313	8.8	19.4
3 2	11 23.34	+ 3 34.7	2.592	3.575	2.4	21.9	3 2	11 23.52	+ 3 5.8	1.317	2.301	3.8	19.1
3 12	11 16.08	+ 4 20.9	2.576	3.568	0.9	21.8	3 12	11 16.00	+ 4 52.2	1.298	2.290	1.6	18.9
3 22	11 8.94	+ 5 6.1	2.591	3.562	4.2	22.0	3 22	11 8.63	+ 6 37.3	1.305	2.280	6.9	19.2
4 1	11 2.57	+ 5 46.4	2.634	3.554	7.3	22.2	4 1	11 2.60	+ 8 10.4	1.338	2.270	11.9	19.4
4 11	10 57.50	+ 6 18.6	2.704	3.547	10.0	22.4	4 11	10 58.81	+ 9 23.6	1.392	2.261	16.2	19.7
<b>12495</b>	1998 <i>FJ</i>		3 9.0 261°96'	0°9'/9.7	18		<b>230919</b>	2004 <i>TR</i> <sub>300</sub>		3 9.0 149°55'	2°7'/11.8	18	

EPHEMERIDES

3 9.0

3 9.1

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>26212</b>	1997 <i>TG</i> <sub>26</sub>		3 9.0 167°02	0°9/10.1	18		<b>176013</b>	2000 <i>RW</i> <sub>102</sub>		3 9.1 214°06	2°9/12.7	18	
2 1	11 43.94	- 0 54.4	2.363	3.134	12.9	19.6	2 1	11 41.70	- 8 0.6	3.149	3.874	11.0	20.7
2 11	11 39.10	- 0 34.8	2.273	3.139	10.1	19.4	2 11	11 37.05	- 8 10.0	3.038	3.866	9.0	20.6
2 21	11 32.40	- 0 2.0	2.206	3.143	6.9	19.2	2 21	11 30.93	- 8 7.2	2.950	3.857	6.7	20.4
3 2	11 24.35	+ 0 41.2	2.167	3.147	3.2	19.0	3 2	11 23.73	- 7 52.4	2.889	3.848	4.3	20.2
3 12	11 15.69	+ 1 30.6	2.158	3.150	1.2	18.8	3 12	11 15.99	- 7 27.6	2.858	3.838	2.9	20.1
3 22	11 7.25	+ 2 21.0	2.179	3.153	4.7	19.1	3 22	11 8.31	- 6 55.4	2.858	3.827	4.0	20.2
4 1	10 59.81	+ 3 7.5	2.229	3.154	8.2	19.3	4 1	11 1.31	- 6 19.3	2.888	3.817	6.4	20.3
4 11	10 54.01	+ 3 45.7	2.305	3.155	11.3	19.5	4 11	10 55.50	- 5 43.4	2.945	3.805	8.8	20.4
<b>282142</b>	2001 <i>QG</i> <sub>268</sub>		3 9.0 111°48	0°6/ 9.9	18		<b>518723</b>	2009 <i>DL</i> <sub>145</sub>		3 9.1 321°48	4°3/ 5.4	17	
2 1	11 39.74	- 1 21.5	2.717	3.487	11.5	20.9	2 1	11 46.26	+ 16 29.5	2.051	2.869	13.0	20.7
2 11	11 35.56	- 0 40.3	2.640	3.506	8.9	20.7	2 11	11 41.29	+ 16 49.4	1.963	2.858	10.1	20.5
2 21	11 29.91	+ 0 13.1	2.588	3.526	5.9	20.6	2 21	11 34.05	+ 17 10.2	1.898	2.846	6.9	20.3
3 2	11 23.24	+ 1 15.4	2.564	3.545	2.7	20.4	3 2	11 25.11	+ 17 26.0	1.861	2.835	4.5	20.1
3 12	11 16.18	+ 2 22.2	2.571	3.563	0.9	20.3	3 12	11 15.42	+ 17 31.2	1.852	2.824	5.1	20.1
3 22	11 9.36	+ 3 28.4	2.608	3.581	4.0	20.5	3 22	11 5.99	+ 17 21.9	1.871	2.814	8.0	20.3
4 1	11 3.40	+ 4 29.2	2.675	3.599	7.1	20.7	4 1	10 57.82	+ 16 56.2	1.916	2.804	11.4	20.5
4 11	10 58.78	+ 5 21.0	2.769	3.616	9.7	20.9	4 11	10 51.66	+ 16 14.6	1.984	2.794	14.4	20.6
<b>497641</b>	2006 <i>RR</i> <sub>12</sub>		3 9.1 157°09	5°0/14.6	17		<b>429342</b>	2010 <i>FN</i> <sub>20</sub>		3 9.1 15°67	1°6/ 7.5	17	
2 1	11 43.14	- 13 16.8	2.644	3.346	13.3	21.5	2 1	11 40.26	+ 6 22.3	1.832	2.649	14.4	21.3
2 11	11 38.41	- 13 49.7	2.547	3.350	11.3	21.4	2 11	11 36.79	+ 6 58.7	1.755	2.651	11.0	21.1
2 21	11 31.93	- 14 6.3	2.472	3.354	8.9	21.2	2 21	11 31.14	+ 7 46.2	1.701	2.654	7.0	20.9
3 2	11 24.15	- 14 5.9	2.422	3.358	6.6	21.0	3 2	11 23.88	+ 8 39.4	1.672	2.657	3.0	20.6
3 12	11 15.77	- 13 49.3	2.400	3.361	5.1	21.0	3 12	11 15.94	+ 9 31.5	1.672	2.661	2.6	20.6
3 22	11 7.52	- 13 19.3	2.407	3.364	5.6	21.0	3 22	11 8.30	+ 10 15.9	1.699	2.665	6.6	20.9
4 1	11 0.16	- 12 40.2	2.443	3.367	7.6	21.1	4 1	11 1.91	+ 10 47.7	1.753	2.670	10.5	21.1
4 11	10 54.28	- 11 57.3	2.504	3.369	10.0	21.3	4 11	10 57.48	+ 11 3.8	1.829	2.674	14.0	21.3
<b>251409</b>	2008 <i>AF</i> <sub>6</sub>		3 9.1 299°12	4°5/12.5	17		<b>54085</b>	2000 <i>GY</i> <sub>163</sub>		3 9.1 122°99	8°5/29.3	18	
2 1	11 41.13	- 7 38.5	1.538	2.315	18.5	20.5	2 1	11 48.37	+ 27 5.2	1.962	2.782	13.5	18.1
2 11	11 38.19	- 7 54.1	1.439	2.300	15.2	20.2	2 11	11 42.94	+ 28 31.3	1.912	2.794	11.0	17.9
2 21	11 32.52	- 7 46.3	1.360	2.286	11.3	20.0	2 21	11 35.06	+ 29 50.4	1.886	2.805	9.1	17.8
3 2	11 24.63	- 7 14.1	1.303	2.271	7.2	19.7	3 2	11 25.48	+ 30 53.0	1.886	2.816	8.5	17.8
3 12	11 15.53	- 6 20.7	1.272	2.257	4.5	19.5	3 12	11 15.30	+ 31 31.4	1.913	2.827	9.6	17.9
3 22	11 6.49	- 5 12.8	1.266	2.243	6.8	19.6	3 22	11 5.68	+ 31 41.9	1.965	2.838	11.7	18.0
4 1	10 58.82	- 3 59.4	1.286	2.229	11.2	19.8	4 1	10 57.63	+ 31 24.7	2.041	2.848	14.0	18.2
4 11	10 53.55	- 2 50.5	1.328	2.215	15.6	20.0	4 11	10 51.86	+ 30 43.3	2.135	2.857	16.2	18.4
<b>110600</b>	2001 <i>TH</i> <sub>134</sub>		3 9.1 296°91	8°3/29.9	18		<b>502541</b>	2015 <i>BG</i> <sub>450</sub>		3 9.1 258°94	1°7/ 7.4	17	
2 1	11 43.39	+ 22 3.0	1.658	2.496	14.6	18.5	2 1	11 43.21	+ 8 1.5	2.155	2.962	12.9	21.6
2 11	11 39.87	+ 23 35.7	1.576	2.476	11.8	18.3	2 11	11 38.82	+ 8 26.7	2.063	2.954	9.9	21.4
2 21	11 33.55	+ 25 9.7	1.517	2.455	9.3	18.1	2 21	11 32.38	+ 8 59.8	1.995	2.946	6.4	21.1
3 2	11 25.03	+ 26 33.8	1.483	2.435	8.3	18.0	3 2	11 24.41	+ 9 36.4	1.954	2.939	2.8	20.9
3 12	11 15.39	+ 27 36.6	1.475	2.414	9.8	18.0	3 12	11 15.72	+ 10 11.1	1.943	2.931	2.6	20.9
3 22	11 5.95	+ 28 10.5	1.491	2.394	12.8	18.1	3 22	11 7.22	+ 10 38.9	1.960	2.922	6.2	21.1
4 1	10 57.99	+ 28 12.2	1.529	2.374	16.1	18.3	4 1	10 59.80	+ 10 55.9	2.004	2.914	9.8	21.3
4 11	10 52.51	+ 27 43.3	1.586	2.354	19.2	18.4	4 11	10 54.16	+ 10 59.7	2.073	2.906	13.0	21.5
<b>202412</b>	2005 <i>SQ</i> <sub>210</sub>		3 9.1 188°13	1°1/ 9.9	18		<b>110271</b>	2001 <i>SD</i> <sub>250</sub>		3 9.1 245°44	1°2/ 7.6	18	
2 1	11 47.59	- 0 4.9	1.634	2.425	17.0	21.0	2 1	11 40.22	+ 5 52.3	2.507	3.306	11.5	20.7
2 11	11 42.81	+ 0 1.3	1.548	2.425	13.4	20.7	2 11	11 36.28	+ 6 30.2	2.408	3.295	8.8	20.5
2 21	11 35.31	+ 0 24.2	1.482	2.425	9.1	20.5	2 21	11 30.60	+ 7 17.4	2.334	3.284	5.7	20.3
3 2	11 25.72	+ 1 1.2	1.442	2.423	4.2	20.2	3 2	11 23.63	+ 8 9.9	2.288	3.272	2.4	20.0
3 12	11 15.13	+ 1 46.6	1.429	2.422	1.6	20.0	3 12	11 16.05	+ 9 2.6	2.271	3.260	2.0	20.0
3 22	11 4.81	+ 2 33.5	1.445	2.419	6.3	20.3	3 22	11 8.59	+ 9 50.4	2.285	3.248	5.3	20.2
4 1	10 55.99	+ 3 15.0	1.486	2.417	11.1	20.6	4 1	11 1.98	+ 10 29.1	2.326	3.236	8.6	20.4
4 11	10 49.60	+ 3 45.5	1.551	2.413	15.2	20.8	4 11	10 56.83	+ 10 55.7	2.393	3.224	11.6	20.5
<b>400316</b>	2007 <i>TT</i> <sub>330</sub>		3 9.1 178°49	0°8/ 9.8	18		<b>257305</b>	2009 <i>HS</i> <sub>69</sub>		3 9.1 156°11	1°6/ 7.5	18	
2 1	11 45.38	- 0 30.2	2.059	2.837	14.4	22.0	2 1	11 45.15	+ 6 25.9	2.065	2.866	13.5	21.8
2 11	11 40.53	- 0 8.0	1.968	2.839	11.3	21.8	2 11	11 40.27	+ 7 8.3	1.986	2.874	10.3	21.6
2 21	11 33.50	+ 0 29.0	1.901	2.841	7.6	21.6	2 21	11 33.28	+ 8 0.8	1.930	2.881	6.6	21.4
3 2	11 24.87	+ 1 18.0	1.860	2.842	3.5	21.4	3 2	11 24.76	+ 8 58.2	1.903	2.887	2.8	21.2
3 12	11 15.50	+ 2 13.7	1.849	2.842	1.3	21.2	3 12	11 15.60	+ 9 54.1	1.904	2.892	2.5	21.2
3 22	11 6.35	+ 3 10.0	1.868	2.841	5.3	21.5	3 22	11 6.74	+ 10 42.3	1.935	2.897	6.3	21.4
4 1	10 58.37	+ 4 0.9	1.914	2.839	9.3	21.7	4 1	10 59.09	+ 11 18.2	1.994	2.902	10.0	21.7
4 11	10 52.29	+ 4 41.5	1.985	2.837	12.8	21.9	4 11	10 53.33	+ 11 39.1	2.076	2.905	13.2	21.9
<b>469728</b>	2005 <i>NM</i> <sub>8</sub>		3 9.1 236°00	5°6/15.4	16		<b>30929</b>	1993 <i>TR</i> <sub>38</sub>		3 9.1 305°13	8°3/ 2.2	18	
2 1	11 42.10	- 15 43.6	2.754	3.440	13.2	22.1	2 1	11 47.35	+ 23 14.4	1.631	2.464	15.1	17.6
2 11	11 37.67	- 16 19.2	2.643	3.431	11.3	21.9	2 11	11 42.83	+ 24 20.0	1.557	2.453	12.2	17.3
2 21	11 31.51	- 16 38.4	2.553	3.421	9.2	21.7	2 21	11 35.40	+ 25 22.8	1.505	2.442	9.5	17.2
3 2	11 24.02	- 16 39.6	2.488	3.411	7.1	21.6	3 2	11 25.77	+ 26 12.5	1.478	2.431	8.3	17.1
3 12	11 15.84	- 16 23.2	2.450	3.401	5.7	21.5	3 12	11 15.17	+ 26 39.5	1.477	2.421	9.4	17.1
3 22	11 7.70	- 15 51.5	2.441	3.390	6.0	21.5	3 22	11 4.96	+ 26 38.1	1.501	2.411	12.3	17.2
4 1	11 0.34	- 15 8.6	2.460	3.380	7.8	21.6	4 1	10 56.45	+ 26 7.4	1.547	2.401	15.5	17.4
4 11	10 54.39	- 14 19.7	2.505	3.369	10.0	21.7	4 11	10 50.55	+ 25 10.3	1.613	2.391	18.5	17.6
<b>402952</b>	2007 <i>TD</i> <sub>376</sub>		3 9.1 210°57	1°4/ 7.9	17		<b>407387&lt;/</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>145118</b>	2005 <i>GJ</i> <sub>130</sub>		3 9.1 271°18	0°9/ 8.3	17		<b>61106</b>	2000 <i>LQ</i> <sub>31</sub>		3 9.1 190°13	3°4/12.7	17	
2 1	11 43.46	+ 4 9.5	1.747	2.555	15.3	20.9	2 1	11 41.57	- 8 25.3	2.127	2.875	14.9	19.8
2 11	11 39.62	+ 4 38.5	1.649	2.539	11.9	20.6	2 11	11 37.62	- 8 18.8	2.031	2.875	12.2	19.6
2 21	11 33.26	+ 5 21.7	1.572	2.522	7.8	20.3	2 21	11 31.64	- 7 52.9	1.957	2.874	9.0	19.4
3 2	11 24.91	+ 6 15.0	1.521	2.506	3.2	20.0	3 2	11 24.14	- 7 8.3	1.908	2.872	5.6	19.1
3 12	11 15.50	+ 7 11.3	1.497	2.488	2.0	19.9	3 12	11 15.91	- 6 8.7	1.887	2.871	3.5	19.0
3 22	11 6.19	+ 8 3.5	1.502	2.471	6.8	20.2	3 22	11 7.85	- 4 59.6	1.895	2.869	5.2	19.1
4 1	10 58.13	+ 8 44.7	1.532	2.454	11.4	20.4	4 1	11 0.85	- 3 48.0	1.931	2.867	8.6	19.3
4 11	10 52.24	+ 9 10.4	1.585	2.436	15.5	20.6	4 11	10 55.61	- 2 40.7	1.992	2.864	11.9	19.5
<b>89566</b>	2001 <i>XZ</i> <sub>103</sub>		3 9.1 158°91	0°8/ 9.9	18		<b>277022</b>	2005 <i>AO</i> <sub>75</sub>		3 9.1 248°73	3°5/ 4.9	17	
2 1	11 47.06	- 0 41.9	2.114	2.886	14.2	20.3	2 1	11 40.26	+ 11 32.0	2.193	3.012	12.2	21.0
2 11	11 41.69	- 0 18.9	2.028	2.896	11.1	20.1	2 11	11 36.58	+ 12 41.9	2.106	3.004	9.3	20.8
2 21	11 34.19	+ 0 18.8	1.966	2.905	7.5	19.9	2 21	11 30.94	+ 13 59.5	2.043	2.995	6.2	20.6
3 2	11 25.16	+ 1 7.8	1.932	2.912	3.5	19.7	3 2	11 23.84	+ 15 18.3	2.008	2.986	3.7	20.4
3 12	11 15.45	+ 2 3.2	1.927	2.919	1.2	19.5	3 12	11 16.04	+ 16 30.8	2.002	2.977	4.5	20.5
3 22	11 6.02	+ 2 59.0	1.952	2.925	5.2	19.8	3 22	11 8.40	+ 17 30.6	2.025	2.968	7.5	20.6
4 1	10 57.80	+ 3 49.3	2.006	2.930	9.0	20.1	4 1	11 1.79	+ 18 13.1	2.074	2.959	10.8	20.8
4 11	10 51.46	+ 4 29.7	2.085	2.933	12.4	20.3	4 11	10 56.87	+ 18 36.2	2.146	2.949	13.7	21.0
<b>59157</b>	1998 <i>YC</i> <sub>4</sub>		3 9.1 79°26	3°5/ 6.2	18		<b>376312</b>	2011 <i>GV</i> <sub>28</sub>		3 9.1 106°97	1°7/ 7.3	17	R
2 1	11 45.00	+ 8 5.6	1.386	2.216	17.4	18.6	2 1	11 41.24	+ 6 3.2	2.005	2.815	13.6	21.0
2 11	11 40.91	+ 9 21.4	1.332	2.236	13.2	18.3	2 11	11 37.35	+ 6 54.2	1.929	2.821	10.3	20.8
2 21	11 34.01	+ 10 50.0	1.299	2.255	8.5	18.1	2 21	11 31.42	+ 7 56.2	1.876	2.828	6.6	20.6
3 2	11 25.11	+ 12 21.6	1.292	2.275	4.2	17.9	3 2	11 24.01	+ 9 3.7	1.850	2.835	2.8	20.4
3 12	11 15.51	+ 13 44.8	1.311	2.294	4.7	18.0	3 12	11 15.98	+ 10 9.7	1.854	2.842	2.6	20.4
3 22	11 6.54	+ 14 50.3	1.356	2.313	9.0	18.3	3 22	11 8.25	+ 11 7.7	1.885	2.848	6.4	20.6
4 1	10 59.39	+ 15 32.4	1.426	2.332	13.3	18.6	4 1	11 1.68	+ 11 52.4	1.944	2.854	10.0	20.9
4 11	10 54.82	+ 15 50.0	1.516	2.351	16.9	18.9	4 11	10 56.94	+ 12 20.9	2.026	2.861	13.2	21.1
<b>189620</b>	2001 <i>BH</i> <sub>63</sub>		3 9.1 82°41	3°3/12.3	18		<b>313394</b>	2002 <i>NK</i> <sub>73</sub>		3 9.1 252°71	2°0/ 7.3	17	
2 1	11 43.98	- 6 55.7	2.018	2.772	15.4	19.9	2 1	11 44.25	+ 6 47.5	1.831	2.642	14.6	22.0
2 11	11 39.33	- 7 1.2	1.946	2.795	12.4	19.7	2 11	11 40.11	+ 7 29.1	1.734	2.628	11.3	21.8
2 21	11 32.62	- 6 48.6	1.896	2.816	9.0	19.5	2 21	11 33.52	+ 8 23.0	1.660	2.613	7.3	21.5
3 2	11 24.47	- 6 19.2	1.871	2.838	5.4	19.4	3 2	11 25.02	+ 9 23.7	1.613	2.597	3.2	21.2
3 12	11 15.77	- 5 36.6	1.875	2.860	3.3	19.3	3 12	11 15.53	+ 10 23.8	1.594	2.582	3.0	21.2
3 22	11 7.44	- 4 46.5	1.907	2.881	5.2	19.4	3 22	11 6.15	+ 11 15.8	1.603	2.565	7.3	21.4
4 1	11 0.36	- 3 54.8	1.967	2.902	8.5	19.7	4 1	10 58.01	+ 11 53.8	1.638	2.549	11.5	21.6
4 11	10 55.16	- 3 7.4	2.052	2.922	11.6	19.9	4 11	10 51.98	+ 12 14.2	1.696	2.532	15.3	21.8
<b>353268</b>	2010 <i>ED</i> <sub>126</sub>		3 9.1 297°24	2°9/10.9	18		<b>299781</b>	2006 <i>SE</i> <sub>73</sub>		3 9.1 216°45	1°4/10.8	17	
2 1	11 45.03	- 2 9.6	1.385	2.186	19.0	20.5	2 1	11 38.20	- 3 29.5	2.535	3.303	12.2	21.2
2 11	11 41.55	- 2 34.9	1.290	2.170	15.3	20.2	2 11	11 34.69	- 2 58.4	2.437	3.300	9.7	21.1
2 21	11 34.94	- 2 41.5	1.214	2.154	10.9	19.9	2 21	11 29.54	- 2 12.5	2.363	3.297	6.7	20.9
3 2	11 25.76	- 2 29.8	1.161	2.139	5.9	19.5	3 2	11 23.21	- 1 14.3	2.316	3.293	3.4	20.6
3 12	11 15.14	- 2 3.2	1.133	2.123	3.0	19.3	3 12	11 16.31	- 0 7.9	2.299	3.290	1.4	20.5
3 22	11 4.57	- 1 28.0	1.131	2.108	7.2	19.5	3 22	11 9.56	+ 1 1.2	2.311	3.286	4.2	20.7
4 1	10 55.57	- 0 52.0	1.153	2.093	12.5	19.8	4 1	11 3.63	+ 2 7.5	2.352	3.282	7.5	20.9
4 11	10 49.34	- 0 23.0	1.196	2.079	17.3	20.0	4 11	10 59.11	+ 3 6.2	2.419	3.279	10.5	21.1
<b>366430</b>	2001 <i>VH</i> <sub>86</sub>		3 9.1 206°89	3°1/12.9	18		<b>504139</b>	2006 <i>SD</i> <sub>38</sub>		3 9.1 221°48	2°1/11.9	17	
2 1	11 43.06	- 9 30.8	2.837	3.557	12.2	22.8	2 1	11 39.30	- 6 23.4	2.935	3.678	11.3	22.7
2 11	11 38.28	- 9 21.7	2.724	3.549	10.0	22.6	2 11	11 35.34	- 6 3.9	2.824	3.668	9.1	22.5
2 21	11 31.84	- 8 56.9	2.635	3.540	7.5	22.4	2 21	11 29.89	- 5 30.3	2.737	3.657	6.6	22.3
3 2	11 24.17	- 8 17.0	2.572	3.530	4.8	22.2	3 2	11 23.34	- 4 44.1	2.678	3.646	3.8	22.1
3 12	11 15.87	- 7 24.4	2.540	3.519	3.2	22.1	3 12	11 16.25	- 3 48.2	2.648	3.635	2.1	22.0
3 22	11 7.65	- 6 23.1	2.538	3.508	4.4	22.1	3 22	11 9.24	- 2 46.8	2.649	3.623	3.9	22.1
4 1	11 0.20	- 5 18.3	2.566	3.495	7.0	22.3	4 1	11 2.93	- 1 44.6	2.680	3.611	6.7	22.2
4 11	10 54.10	- 4 15.1	2.622	3.481	9.8	22.4	4 11	10 57.85	- 0 46.2	2.738	3.598	9.4	22.4
<b>87898</b>	2000 <i>SC</i> <sub>305</sub>		3 9.1 243°58	3°6/13.2	18		<b>128184</b>	2003 <i>RN</i> <sub>23</sub>		3 9.1 16°31	0°0/ 8.9	17	
2 1	11 39.64	- 9 11.9	2.509	3.246	13.2	19.8	2 1	11 40.84	+ 2 1.2	1.964	2.763	14.2	20.2
2 11	11 35.85	- 9 18.5	2.409	3.243	10.8	19.6	2 11	11 37.15	+ 2 30.4	1.879	2.763	11.0	20.0
2 21	11 30.33	- 9 8.9	2.330	3.239	8.1	19.5	2 21	11 31.36	+ 3 13.3	1.816	2.764	7.2	19.7
3 2	11 23.54	- 8 43.5	2.277	3.235	5.4	19.3	3 2	11 24.02	+ 4 6.2	1.780	2.764	3.0	19.5
3 12	11 16.14	- 8 4.5	2.253	3.232	3.6	19.2	3 12	11 15.98	+ 5 3.2	1.772	2.765	1.3	19.3
3 22	11 8.86	- 7 16.0	2.257	3.228	4.8	19.2	3 22	11 8.18	+ 5 57.7	1.793	2.765	5.6	19.6
4 1	11 2.44	- 6 23.0	2.290	3.224	7.5	19.4	4 1	11 1.53	+ 6 44.0	1.841	2.766	9.6	19.9
4 11	10 57.47	- 5 30.9	2.348	3.220	10.3	19.6	4 11	10 56.73	+ 7 17.8	1.912	2.766	13.1	20.1
<b>338077</b>	2002 <i>PA</i> <sub>85</sub>		3 9.1 228°31	0°3/ 9.4	17		<b>251385</b>	2007 <i>VJ</i> <sub>163</sub>		3 9.1 264°74	1°4/ 7.9	16	
2 1	11 42.92	+ 1 36.1	2.861	3.633	10.9	22.1	2 1	11 45.14	+ 5 29.5	1.742	2.550	15.3	21.6
2 11	11 38.14	+ 1 52.1	2.750	3.619	8.5	21.9	2 11	11 41.01	+ 6 0.5	1.640	2.531	11.9	21.3
2 21	11 31.74	+ 2 17.6	2.664	3.604	5.7	21.7	2 21	11 34.24	+ 6 44.9	1.560	2.511	7.8	21.0
3 2	11 24.12	+ 2 50.4	2.607	3.589	2.5	21.4	3 2	11 25.38	+ 7 38.0	1.506	2.491	3.3	20.7
3 12	11 15.90	+ 3 27.0	2.580	3.573	0.9	21.3	3 12	11 15.38	+ 8 32.7	1.480	2.470	2.5	20.6
3 22	11 7.74	+ 4 3.6	2.585	3.556	4.2	21.5	3 22	11 5.43	+ 9 21.6	1.482	2.449	7.2	20.8
4 1	11 0.33	+ 4 36.4	2.619	3.539	7.4	21.7	4 1	10 56.74	+ 9 58.0	1.510	2.427	11.9	21.0
4 11	10 54.24	+ 5 2.1	2.680	3.521	10.2	21.8	4 11	10 50.29	+ 10 17.8	1.560	2.406	16.0	21.2
<b>123440</b>	2000 <i>WT</i> <sub>125</sub>		3 9.1 107°24	2°6/11.4	18		<b>242397</b>	2004 <i>FD</i> <sub>46</sub>		3 9.1 341°21	0°9		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>246918</b>	1998 UN <sub>27</sub>		3 9.1 204°12	2°4/ 5.9 18			<b>94110</b>	2000 YZ <sub>87</sub>		3 9.1 118°97	0°7/ 8.4 18		
2 1	11 42.05	+10 40.0	2.823	3.625	10.3	21.3	2 1	11 43.03	+ 4 3.5	2.104	2.901	13.5	19.9
2 11	11 37.46	+11 29.0	2.730	3.619	7.8	21.1	2 11	11 38.61	+ 4 34.3	2.026	2.911	10.3	19.7
2 21	11 31.27	+12 23.5	2.663	3.612	5.1	20.9	2 21	11 32.19	+ 5 16.1	1.972	2.920	6.7	19.5
3 2	11 23.93	+13 19.1	2.625	3.605	2.7	20.8	3 2	11 24.36	+ 6 4.7	1.945	2.930	2.7	19.3
3 12	11 16.04	+14 10.7	2.618	3.598	3.1	20.8	3 12	11 15.94	+ 6 54.6	1.948	2.939	1.6	19.2
3 22	11 8.30	+14 53.9	2.641	3.589	5.7	20.9	3 22	11 7.82	+ 7 39.9	1.979	2.948	5.6	19.5
4 1	11 1.36	+15 25.4	2.693	3.580	8.5	21.1	4 1	11 0.84	+ 8 16.0	2.038	2.956	9.2	19.7
4 11	10 55.78	+15 43.4	2.770	3.571	11.0	21.3	4 11	10 55.65	+ 8 39.8	2.122	2.964	12.4	19.9
<b>244197</b>	2001 YC <sub>44</sub>		3 9.1 151°57	3°9/ 4.1 17			<b>506359</b>	2017 QF <sub>6</sub>		3 9.1 119°42	2°6/ 11.6 17		
2 1	11 41.30	+16 1.9	2.582	3.399	10.7	20.9	2 1	11 42.04	- 5 1.4	2.018	2.786	15.0	21.5
2 11	11 36.98	+16 57.0	2.508	3.402	8.2	20.7	2 11	11 38.04	- 4 59.8	1.930	2.789	12.0	21.3
2 21	11 30.98	+17 54.0	2.459	3.406	5.7	20.6	2 21	11 31.94	- 4 40.9	1.864	2.793	8.6	21.1
3 2	11 23.79	+18 47.5	2.439	3.410	4.0	20.5	3 2	11 24.30	- 4 6.2	1.824	2.796	4.9	20.9
3 12	11 16.11	+19 32.0	2.449	3.413	4.7	20.5	3 12	11 15.95	- 3 19.6	1.811	2.800	2.6	20.7
3 22	11 8.68	+20 3.3	2.487	3.416	7.1	20.7	3 22	11 7.83	- 2 26.6	1.827	2.803	5.1	20.9
4 1	11 2.19	+20 18.9	2.552	3.419	9.6	20.8	4 1	11 0.84	- 1 33.4	1.871	2.806	8.8	21.1
4 11	10 57.20	+20 18.3	2.640	3.422	12.0	21.0	4 11	10 55.69	- 0 46.1	1.939	2.809	12.2	21.3
<b>103132</b>	1999 XY <sub>198</sub>		3 9.1 147°72	1°4/ 10.4 18			<b>1339</b>	Désagneaux		3 9.1 71°91	3°8/ 12.9 18	R	
2 1	11 46.12	- 1 21.3	1.979	2.755	14.9	20.2	2 1	11 41.66	- 8 16.8	2.212	2.959	14.4	15.7
2 11	11 41.13	- 1 15.2	1.895	2.763	11.8	20.0	2 11	11 37.57	- 8 33.1	2.124	2.964	11.8	15.5
2 21	11 33.93	- 0 54.3	1.834	2.771	8.0	19.8	2 21	11 31.55	- 8 32.4	2.056	2.970	8.8	15.3
3 2	11 25.10	- 0 20.8	1.799	2.778	4.0	19.6	3 2	11 24.11	- 8 15.0	2.015	2.975	5.7	15.1
3 12	11 15.56	+ 0 20.7	1.793	2.785	1.6	19.4	3 12	11 16.03	- 7 43.4	2.000	2.981	3.8	15.0
3 22	11 6.32	+ 1 4.5	1.816	2.791	5.3	19.7	3 22	11 8.15	- 7 1.8	2.015	2.986	5.2	15.1
4 1	10 58.33	+ 1 45.1	1.867	2.796	9.2	19.9	4 1	11 1.31	- 6 15.8	2.057	2.992	8.2	15.3
4 11	10 52.31	+ 2 17.5	1.943	2.801	12.7	20.1	4 11	10 56.16	- 5 31.0	2.124	2.997	11.2	15.5
<b>208367</b>	2001 RC <sub>152</sub>		3 9.1 124°05	4°4/ 3.9 17			<b>131488</b>	2001 SL <sub>94</sub>		3 9.1 59°58	2°8/ 10.9 18		
2 1	11 42.96	+17 19.3	2.450	3.267	11.2	20.2	2 1	11 47.74	- 2 4.5	1.323	2.123	19.8	19.5
2 11	11 38.30	+18 12.2	2.381	3.275	8.6	20.0	2 11	11 43.32	- 2 29.1	1.255	2.135	15.7	19.3
2 21	11 31.85	+19 5.9	2.338	3.283	6.0	19.9	2 21	11 35.82	- 2 34.0	1.207	2.147	11.0	19.1
3 2	11 24.16	+19 54.6	2.323	3.291	4.4	19.8	3 2	11 26.02	- 2 20.5	1.182	2.160	5.8	18.8
3 12	11 15.98	+20 32.6	2.337	3.299	5.2	19.9	3 12	11 15.26	- 1 53.6	1.182	2.173	2.9	18.6
3 22	11 8.11	+20 56.0	2.380	3.306	7.5	20.0	3 22	11 5.05	- 1 19.9	1.208	2.186	6.9	18.9
4 1	11 1.29	+21 2.7	2.449	3.313	10.1	20.2	4 1	10 56.74	- 0 47.3	1.259	2.199	11.7	19.2
4 11	10 56.09	+20 52.8	2.541	3.320	12.5	20.4	4 11	10 51.26	- 0 22.4	1.332	2.212	16.0	19.5
<b>31027</b>	Viktorhess		3 9.1 322°53	6°1/ 4.6 18			<b>32763</b>	1981 EH <sub>35</sub>		3 9.1 62°70	1°1/ 9.9 18		
2 1	11 44.24	+14 43.9	1.301	2.146	17.4	18.8	2 1	11 47.90	+ 0 4.4	1.307	2.114	19.6	19.2
2 11	11 40.98	+15 45.8	1.226	2.137	13.5	18.6	2 11	11 43.20	+ 0 11.1	1.254	2.140	15.2	19.0
2 21	11 34.51	+16 55.1	1.173	2.128	9.3	18.3	2 21	11 35.54	+ 0 37.1	1.220	2.166	10.1	18.8
3 2	11 25.54	+18 1.3	1.143	2.120	6.3	18.1	3 2	11 25.81	+ 1 18.1	1.210	2.192	4.6	18.5
3 12	11 15.39	+18 52.6	1.139	2.112	7.4	18.1	3 12	11 15.39	+ 2 6.5	1.226	2.218	1.6	18.4
3 22	11 5.61	+19 20.1	1.158	2.104	11.5	18.3	3 22	11 5.73	+ 2 54.1	1.268	2.244	6.8	18.8
4 1	10 57.68	+19 19.5	1.199	2.098	15.9	18.6	4 1	10 58.06	+ 3 33.4	1.335	2.270	11.6	19.1
4 11	10 52.66	+18 51.3	1.260	2.091	19.8	18.8	4 11	10 53.13	+ 3 59.4	1.424	2.296	15.7	19.4
<b>288968</b>	2004 TV <sub>29</sub>		3 9.1 249°54	0°2/ 9.3 18			<b>293433</b>	2007 EU <sub>149</sub>		3 9.1 128°10	1°9/ 7.2 18		
2 1	11 42.43	+ 0 0.1	1.595	2.398	16.8	20.9	2 1	11 41.41	+ 6 1.6	1.937	2.748	13.9	21.0
2 11	11 39.01	+ 0 39.2	1.503	2.389	13.2	20.6	2 11	11 37.60	+ 6 56.9	1.859	2.752	10.6	20.8
2 21	11 32.96	+ 1 38.7	1.432	2.380	8.8	20.4	2 21	11 31.67	+ 8 4.2	1.804	2.756	6.8	20.6
3 2	11 24.84	+ 2 54.5	1.387	2.370	3.8	20.0	3 2	11 24.19	+ 9 17.4	1.776	2.760	2.9	20.4
3 12	11 15.68	+ 4 18.9	1.368	2.360	1.5	19.8	3 12	11 16.04	+10 29.1	1.777	2.764	2.8	20.3
3 22	11 6.67	+ 5 42.3	1.376	2.350	6.7	20.2	3 22	11 8.16	+11 32.2	1.806	2.768	6.6	20.6
4 1	10 59.04	+ 6 55.7	1.411	2.340	11.6	20.4	4 1	11 1.48	+12 21.1	1.862	2.772	10.4	20.8
4 11	10 53.73	+ 7 52.1	1.468	2.330	15.9	20.6	4 11	10 56.69	+12 52.6	1.941	2.775	13.7	21.0
<b>288812</b>	2004 RH <sub>172</sub>		3 9.1 122°32	0°8/ 8.4 18			<b>132058</b>	2002 CE <sub>142</sub>		3 9.1 46°94	1°8/ 10.5 18		
2 1	11 48.70	+ 4 16.4	1.814	2.610	15.3	21.0	2 1	11 42.22	- 2 45.2	1.253	2.064	20.0	19.4
2 11	11 43.17	+ 4 43.0	1.745	2.628	11.8	20.8	2 11	11 39.11	- 2 26.7	1.193	2.080	15.8	19.1
2 21	11 35.25	+ 5 21.5	1.698	2.645	7.6	20.6	2 21	11 33.04	- 1 43.8	1.151	2.096	10.8	18.9
3 2	11 25.65	+ 6 7.1	1.677	2.662	3.1	20.4	3 2	11 24.83	- 0 40.5	1.133	2.113	5.3	18.6
3 12	11 15.40	+ 6 53.5	1.686	2.678	1.8	20.3	3 12	11 15.79	+ 0 34.6	1.139	2.131	2.0	18.5
3 22	11 5.62	+ 7 34.4	1.724	2.693	6.2	20.6	3 22	11 7.33	+ 1 51.1	1.171	2.149	6.8	18.8
4 1	10 57.32	+ 8 4.9	1.789	2.707	10.3	20.9	4 1	11 0.72	+ 2 58.9	1.227	2.168	11.8	19.1
4 11	10 51.22	+ 8 21.8	1.878	2.720	13.8	21.1	4 11	10 56.80	+ 3 50.7	1.304	2.186	16.2	19.4
<b>411384</b>	2010 VQ <sub>70</sub>		3 9.1 123°09	1°7/ 10.9 18			<b>214541</b>	2006 OE <sub>9</sub>		3 9.1 200°50	0°4/ 9.5 17		
2 1	11 43.74	- 4 13.1	2.192	2.954	14.1	21.8	2 1	11 44.49	+ 0 33.8	2.122	2.904	13.9	21.7
2 11	11 39.03	- 3 44.2	2.115	2.973	11.1	21.6	2 11	11 39.87	+ 1 0.2	2.026	2.900	10.8	21.5
2 21	11 32.40	- 2 58.6	2.060	2.991	7.7	21.4	2 21	11 33.15	+ 1 40.8	1.954	2.896	7.2	21.3
3 2	11 24.42	- 1 59.3	2.033	3.009	4.0	21.2	3 2	11 24.84	+ 2 32.4	1.909	2.891	3.2	21.0
3 12	11 15.91	- 0 51.3	2.035	3.025	1.7	21.1	3 12	11 15.76	+ 3 29.7	1.893	2.885	1.2	20.9
3 22	11 7.72	+ 0 19.1	2.067	3.041	4.7	21.3	3 22	11 6.85	+ 4 26.5	1.906	2.879	5.3	21.1
4 1	11 0.65	+ 1 25.8	2.127	3.057	8.2	21.5	4 1	10 59.02	+ 5 17.2	1.948	2.872	9.3	21.4
4 11	10 55.33	+ 2 23.4	2.214	3.072	11.4	21.8	4 11	10 53.01	+ 5 57.0	2.015	2.864	12.7	21.6
<b>357384</b>	2003 UP <sub>43</sub>		3 9.1 235°50	0°4/ 8.7 17			<b>213089</b>	1999 TS <sub>251</sub>		3 9.1 94°19	0°7/ 8.5 18		
2 1	11 44.16	+ 2 23.9	1.904	2.700	14.7	22.0							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>360545</b>	2003 SQ <sub>263</sub>		3 9.1 165°08	0.4/ 9.5	18		<b>34743</b>	2001 QE <sub>80</sub>		3 9.1 181°68	0.1/ 8.9	18	
2 1	11 43.33	- 0 28.8	1.945	2.731	14.8	21.7	2 1	11 40.28	+ 2 39.6	2.868	3.649	10.6	20.2
2 11	11 39.09	+ 0 14.0	1.860	2.736	11.6	21.4	2 11	11 36.06	+ 3 9.0	2.774	3.650	8.2	20.0
2 21	11 32.67	+ 1 13.7	1.797	2.740	7.7	21.2	2 21	11 30.36	+ 3 47.6	2.706	3.650	5.4	19.8
3 2	11 24.63	+ 2 26.3	1.761	2.743	3.4	21.0	3 2	11 23.59	+ 4 32.6	2.666	3.650	2.2	19.6
3 12	11 15.87	+ 3 45.1	1.754	2.746	1.2	20.8	3 12	11 16.35	+ 5 19.9	2.657	3.649	1.0	19.5
3 22	11 7.36	+ 5 2.5	1.776	2.749	5.6	21.1	3 22	11 9.25	+ 6 5.4	2.679	3.648	4.2	19.7
4 1	11 0.05	+ 6 11.5	1.826	2.751	9.7	21.3	4 1	11 2.92	+ 6 45.2	2.730	3.647	7.2	19.9
4 11	10 54.67	+ 7 6.7	1.900	2.752	13.3	21.6	4 11	10 57.87	+ 7 16.4	2.806	3.645	9.8	20.1
<b>168816</b>	2000 SR <sub>224</sub>		3 9.1 296°42	3°8/12.1	18		<b>370739</b>	2004 RN <sub>142</sub>		3 9.1 178°73	0°5/ 9.7	17	
2 1	11 41.11	- 6 35.0	1.472	2.258	18.8	19.8	2 1	11 43.60	+ 0 44.4	2.378	3.156	12.7	22.6
2 11	11 38.32	- 6 40.0	1.376	2.244	15.4	19.5	2 11	11 38.91	+ 1 1.6	2.286	3.158	9.9	22.4
2 21	11 32.72	- 6 20.5	1.300	2.230	11.2	19.2	2 21	11 32.37	+ 1 30.6	2.218	3.159	6.6	22.2
3 2	11 24.84	- 5 36.4	1.245	2.217	6.7	18.9	3 2	11 24.49	+ 2 8.7	2.178	3.159	3.0	22.0
3 12	11 15.73	- 4 31.8	1.216	2.203	3.8	18.7	3 12	11 15.98	+ 2 51.5	2.167	3.159	1.0	21.8
3 22	11 6.69	- 3 14.4	1.212	2.190	6.8	18.8	3 22	11 7.66	+ 3 34.4	2.186	3.159	4.7	22.1
4 1	10 59.08	- 1 54.6	1.234	2.177	11.5	19.1	4 1	11 0.33	+ 4 12.5	2.234	3.158	8.2	22.3
4 11	10 53.96	- 0 42.3	1.278	2.165	16.1	19.3	4 11	10 54.60	+ 4 42.3	2.307	3.156	11.3	22.5
<b>355917</b>	2008 YT <sub>2</sub>		3 9.1 110°57	2°1/ 7.2	18		<b>244642</b>	2003 FD <sub>16</sub>		3 9.1 321°31	5°3/12.7	18	
2 1	11 48.64	+ 7 6.5	1.751	2.557	15.4	21.6	2 1	11 42.49	- 7 24.2	1.345	2.132	20.2	20.2
2 11	11 43.14	+ 7 55.3	1.690	2.580	11.7	21.4	2 11	11 39.62	- 7 59.7	1.257	2.123	16.7	19.9
2 21	11 35.24	+ 8 54.5	1.651	2.602	7.5	21.2	2 21	11 33.70	- 8 11.4	1.187	2.114	12.5	19.6
3 2	11 25.66	+ 9 57.4	1.640	2.624	3.3	21.0	3 2	11 25.31	- 7 57.5	1.138	2.105	8.0	19.4
3 12	11 15.49	+ 10 56.2	1.658	2.645	3.1	21.0	3 12	11 15.59	- 7 20.3	1.113	2.097	5.3	19.2
3 22	11 5.86	+ 11 44.1	1.704	2.665	7.1	21.3	3 22	11 6.00	- 6 26.3	1.113	2.089	7.5	19.3
4 1	10 57.80	+ 12 16.6	1.778	2.685	11.0	21.6	4 1	10 58.03	- 5 24.9	1.137	2.082	12.1	19.5
4 11	10 52.00	+ 12 31.6	1.874	2.703	14.4	21.8	4 11	10 52.79	- 4 26.5	1.182	2.075	16.7	19.7
<b>363317</b>	2002 OQ <sub>4</sub>		3 9.1 244°62	0°5/ 9.6	17		<b>64763</b>	2001 XV <sub>174</sub>		3 9.1 330°16	0°1/ 9.2	18	
2 1	11 44.49	+ 0 4.3	2.125	2.905	13.9	23.1	2 1	11 39.15	+ 2 0.1	2.123	2.920	13.3	19.1
2 11	11 40.04	+ 0 29.8	2.013	2.886	11.0	22.9	2 11	11 35.78	+ 2 20.3	2.029	2.913	10.4	18.9
2 21	11 33.40	+ 1 10.3	1.925	2.866	7.4	22.6	2 21	11 30.48	+ 2 53.1	1.959	2.906	6.9	18.7
3 2	11 25.02	+ 2 3.3	1.864	2.845	3.4	22.4	3 2	11 23.73	+ 3 35.1	1.915	2.899	3.0	18.4
3 12	11 15.69	+ 3 3.6	1.831	2.824	1.2	22.1	3 12	11 16.29	+ 4 21.6	1.899	2.892	1.2	18.3
3 22	11 6.38	+ 4 5.0	1.829	2.802	5.5	22.4	3 22	11 9.00	+ 5 6.9	1.912	2.885	5.2	18.5
4 1	10 58.06	+ 5 1.1	1.855	2.779	9.6	22.6	4 1	11 2.72	+ 5 45.9	1.952	2.879	9.0	18.8
4 11	10 51.55	+ 5 46.6	1.905	2.755	13.3	22.8	4 11	10 58.13	+ 6 14.5	2.017	2.874	12.4	19.0
<b>403022</b>	2007 XG <sub>3</sub>		3 9.1 130°86	5°8/ 3.0	18		<b>502681</b>	2015 CS <sub>57</sub>		3 9.1 60°65	0°3/ 8.7	17	
2 1	11 48.07	+ 18 48.0	2.063	2.880	13.0	22.1	2 1	11 37.86	+ 0 2.5	2.045	2.840	13.9	21.1
2 11	11 42.51	+ 20 9.3	2.006	2.898	10.1	22.0	2 11	11 34.78	+ 1 11.1	1.964	2.848	10.7	20.9
2 21	11 34.74	+ 21 30.7	1.975	2.915	7.3	21.8	2 21	11 29.78	+ 2 36.6	1.908	2.855	7.0	20.7
3 2	11 25.45	+ 22 43.8	1.971	2.931	5.8	21.8	3 2	11 23.41	+ 4 13.9	1.878	2.862	2.9	20.5
3 12	11 15.60	+ 23 40.7	1.996	2.947	6.8	21.9	3 12	11 16.44	+ 5 55.1	1.878	2.870	1.4	20.3
3 22	11 6.21	+ 24 16.7	2.049	2.962	9.3	22.0	3 22	11 9.72	+ 7 32.2	1.907	2.878	5.5	20.6
4 1	10 58.21	+ 24 29.8	2.128	2.976	12.1	22.2	4 1	11 4.06	+ 8 57.9	1.964	2.885	9.3	20.9
4 11	10 52.26	+ 24 21.2	2.228	2.989	14.5	22.4	4 11	11 0.10	+ 10 7.1	2.046	2.893	12.6	21.1
<b>411219</b>	2010 OE <sub>14</sub>		3 9.1 51°93	6°3/13.6	18		<b>415064</b>	2012 BD <sub>51</sub>		3 9.1 227°25	2°2/ 6.8	17	
2 1	11 48.34	- 9 35.0	1.503	2.261	19.7	20.1	2 1	11 43.60	+ 6 48.3	1.971	2.778	13.8	21.5
2 11	11 43.46	- 10 38.3	1.438	2.280	16.3	20.0	2 11	11 39.44	+ 7 48.5	1.876	2.768	10.6	21.2
2 21	11 35.76	- 11 19.1	1.391	2.300	12.4	19.8	2 21	11 33.02	+ 9 1.2	1.805	2.757	6.9	21.0
3 2	11 25.98	- 11 35.2	1.367	2.321	8.6	19.6	3 2	11 24.86	+ 10 20.6	1.762	2.745	3.1	20.7
3 12	11 15.37	- 11 28.1	1.368	2.342	6.4	19.5	3 12	11 15.82	+ 11 38.7	1.747	2.733	3.2	20.7
3 22	11 5.26	- 11 2.5	1.396	2.363	7.6	19.6	3 22	11 6.92	+ 12 47.7	1.762	2.720	7.1	20.9
4 1	10 56.90	- 10 25.7	1.449	2.384	10.9	19.9	4 1	10 59.16	+ 13 41.6	1.803	2.707	11.1	21.1
4 11	10 51.13	- 9 46.4	1.525	2.406	14.3	20.1	4 11	10 53.35	+ 14 16.7	1.868	2.693	14.6	21.3
<b>48825</b>	1997 WJ <sub>48</sub>		3 9.1 104°68	1°2/ 7.8	18		<b>90095</b>	2002 XB <sub>7</sub>		3 9.1 146°91	3°5/13.3	17	
2 1	11 41.18	+ 5 27.2	2.316	3.116	12.3	19.3	2 1	11 39.64	- 9 47.9	2.423	3.159	13.6	20.2
2 11	11 37.01	+ 6 8.2	2.242	3.129	9.4	19.2	2 11	11 35.90	- 9 40.4	2.329	3.163	11.2	20.0
2 21	11 31.08	+ 6 58.6	2.191	3.141	6.0	19.0	2 21	11 30.42	- 9 15.0	2.257	3.166	8.3	19.8
3 2	11 23.90	+ 7 53.9	2.169	3.154	2.5	18.7	3 2	11 23.67	- 8 32.5	2.211	3.170	5.4	19.7
3 12	11 16.22	+ 8 48.5	2.176	3.166	2.0	18.7	3 12	11 16.34	- 7 35.9	2.193	3.173	3.5	19.6
3 22	11 8.83	+ 9 37.3	2.213	3.177	5.4	19.0	3 22	11 9.19	- 6 30.1	2.204	3.176	4.7	19.6
4 1	11 2.46	+ 10 15.9	2.277	3.189	8.7	19.2	4 1	11 2.95	- 5 21.0	2.243	3.179	7.6	19.8
4 11	10 57.67	+ 10 41.7	2.366	3.200	11.6	19.4	4 11	10 58.22	- 4 14.8	2.309	3.181	10.4	20.0
<b>489757</b>	2008 AK <sub>16</sub>		3 9.1 142°17	3°8/13.7	17		<b>328991</b>	2010 WX <sub>63</sub>		3 9.1 34°07	3°3/ 6.3	18	
2 1	11 40.76	- 10 31.8	2.729	3.450	12.5	21.9	2 1	11 43.45	+ 10 5.7	1.681	2.505	15.1	21.1
2 11	11 36.54	- 10 41.7	2.635	3.457	10.4	21.8	2 11	11 39.53	+ 10 54.4	1.606	2.507	11.5	20.8
2 21	11 30.72	- 10 36.2	2.563	3.463	7.9	21.6	2 21	11 33.13	+ 11 52.1	1.554	2.509	7.5	20.6
3 2	11 23.76	- 10 15.5	2.517	3.469	5.4	21.4	3 2	11 24.89	+ 12 51.8	1.528	2.510	3.9	20.4
3 12	11 16.27	- 9 41.6	2.500	3.475	3.8	21.3	3 12	11 15.85	+ 13 45.2	1.530	2.512	4.3	20.4
3 22	11 8.95	- 8 58.1	2.513	3.480	4.6	21.4	3 22	11 7.17	+ 14 25.3	1.558	2.514	8.1	20.6
4 1	11 2.45	- 8 9.4	2.554	3.485	7.0	21.6	4 1	10 59.92	+ 14 47.5	1.612	2.516	12.1	20.9
4 11	10 57.33	- 7 20.7	2.622	3.490	9.5	21.7	4 11	10 54.90	+ 14 50.0	1.687	2.519	15.6	21.1
<b>421319</b>	2013 TX <sub>62</sub>		3 9.1 160°82	0°5/ 9.6	17		<b>182325</b>	2001 PC <sub>5</sub>		3 9.1 148°15	2°2/ 6.6	18	
2 1	11 42.39	+ 0 35.0	2.										



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>45722</b>	2000 GA <sub>56</sub>		3 9.1 257°53	3°6/ 5.4 18			<b>17355</b>	1978 NK		3 9.1 164°22	1°3/10.7 16		
2 1	11 43.33	+13 48.9	2.217	3.034	12.2	18.7	2 1	11 43.07	- 2 35.6	2.497	3.259	12.6	20.4
2 11	11 38.90	+14 29.9	2.133	3.028	9.4	18.5	2 11	11 38.42	- 2 16.0	2.406	3.265	9.9	20.2
2 21	11 32.47	+15 14.8	2.073	3.023	6.3	18.3	2 21	11 32.02	- 1 42.9	2.338	3.271	6.8	20.0
3 2	11 24.56	+15 57.9	2.040	3.017	3.9	18.1	3 2	11 24.36	- 0 58.6	2.298	3.276	3.5	19.8
3 12	11 16.00	+16 33.3	2.037	3.012	4.5	18.1	3 12	11 16.13	- 0 7.0	2.288	3.280	1.4	19.7
3 22	11 7.67	+16 56.1	2.062	3.006	7.3	18.3	3 22	11 8.11	+ 0 47.0	2.309	3.283	4.3	19.9
4 1	11 0.43	+17 3.3	2.113	3.001	10.5	18.5	4 1	11 1.01	+ 1 38.3	2.359	3.286	7.7	20.1
4 11	10 54.95	+16 54.2	2.188	2.995	13.3	18.7	4 11	10 55.44	+ 2 22.6	2.434	3.288	10.6	20.3
<b>240512</b>	2004 EM <sub>101</sub>		3 9.1 60°62	1°3/10.6 17			<b>7606</b>	1995 SV <sub>2</sub>		3 9.1 80°71	1°5/ 7.9 18		
2 1	11 38.55	- 3 18.6	2.125	2.903	14.0	21.1	2 1	11 45.89	+ 5 28.2	1.582	2.395	16.4	18.4
2 11	11 35.22	- 2 43.6	2.044	2.913	11.0	21.0	2 11	11 41.36	+ 6 3.4	1.519	2.412	12.5	18.2
2 21	11 30.03	- 1 51.6	1.985	2.922	7.5	20.8	2 21	11 34.26	+ 6 51.4	1.477	2.429	8.1	17.9
3 2	11 23.51	- 0 45.8	1.953	2.932	3.8	20.5	3 2	11 25.35	+ 7 45.9	1.462	2.447	3.3	17.7
3 12	11 16.43	+ 0 28.2	1.950	2.941	1.4	20.4	3 12	11 15.76	+ 8 39.3	1.474	2.464	2.5	17.7
3 22	11 9.60	+ 1 44.0	1.975	2.951	4.8	20.6	3 22	11 6.70	+ 9 24.1	1.513	2.481	7.0	18.0
4 1	11 3.81	+ 2 54.7	2.029	2.961	8.4	20.9	4 1	10 59.24	+ 9 55.1	1.578	2.497	11.3	18.3
4 11	10 59.66	+ 3 55.2	2.107	2.971	11.6	21.1	4 11	10 54.14	+10 9.5	1.666	2.514	15.0	18.5
<b>312877</b>	2011 UY <sub>179</sub>		3 9.1 158°71	0°3/ 9.4 18			<b>338411</b>	2003 BH <sub>33</sub>		3 9.1 26°95	5°8/14.8 18		
2 1	11 46.79	+ 0 52.3	2.068	2.848	14.2	22.1	2 1	11 39.42	-12 25.9	1.774	2.520	17.5	19.5
2 11	11 41.59	+ 1 18.0	1.984	2.857	11.1	21.9	2 11	11 36.31	-12 54.5	1.700	2.533	14.7	19.3
2 21	11 34.23	+ 1 57.4	1.923	2.864	7.4	21.6	2 21	11 30.96	-12 59.7	1.645	2.546	11.4	19.1
3 2	11 25.31	+ 2 47.1	1.889	2.871	3.2	21.4	3 2	11 23.98	-12 40.7	1.613	2.561	8.1	18.9
3 12	11 15.70	+ 3 41.5	1.885	2.878	1.2	21.2	3 12	11 16.30	-12 0.0	1.606	2.576	6.0	18.9
3 22	11 6.38	+ 4 34.6	1.911	2.883	5.4	21.5	3 22	11 8.94	-11 3.1	1.625	2.592	6.7	18.9
4 1	10 58.27	+ 5 20.8	1.965	2.887	9.3	21.8	4 1	11 2.87	- 9 57.6	1.670	2.609	9.4	19.1
4 11	10 52.08	+ 5 55.9	2.044	2.891	12.7	22.0	4 11	10 58.80	- 8 52.0	1.739	2.626	12.5	19.3
<b>85296</b>	1994 TT <sub>7</sub>		3 9.1 258°36	0°4/ 8.8 18			<b>269083</b>	2007 HB <sub>16</sub>		3 9.1 305°31	1°3/ 7.9 17		
2 1	11 44.92	+ 2 43.0	1.578	2.385	16.7	20.8	2 1	11 40.08	+ 4 32.7	1.744	2.560	15.0	20.8
2 11	11 41.06	+ 3 7.8	1.483	2.373	13.1	20.5	2 11	11 37.06	+ 5 12.4	1.648	2.543	11.6	20.5
2 21	11 34.42	+ 3 49.2	1.410	2.360	8.7	20.2	2 21	11 31.65	+ 6 7.1	1.573	2.526	7.6	20.2
3 2	11 25.57	+ 4 43.2	1.362	2.346	3.7	19.9	3 2	11 24.36	+ 7 11.7	1.524	2.510	3.2	19.9
3 12	11 15.55	+ 5 42.6	1.340	2.332	1.8	19.7	3 12	11 16.11	+ 8 18.8	1.503	2.493	2.4	19.8
3 22	11 5.66	+ 6 39.2	1.346	2.318	7.1	20.0	3 22	11 7.96	+ 9 20.5	1.509	2.478	6.9	20.1
4 1	10 57.18	+ 7 25.2	1.378	2.304	12.1	20.2	4 1	11 1.01	+10 9.7	1.541	2.462	11.4	20.3
4 11	10 51.14	+ 7 55.4	1.431	2.290	16.4	20.5	4 11	10 56.14	+10 41.8	1.595	2.447	15.3	20.5
<b>204287</b>	2004 NK <sub>13</sub>		3 9.1 205°33	3°7/12.2 18			<b>405252</b>	2003 SL <sub>244</sub>		3 9.1 189°71	0°0/ 8.9 17		
2 1	11 46.22	- 7 0.7	1.841	2.598	16.6	21.4	2 1	11 44.52	+ 1 20.5	2.090	2.876	13.9	22.9
2 11	11 41.64	- 7 8.2	1.744	2.593	13.5	21.2	2 11	11 39.93	+ 1 58.5	1.998	2.875	10.8	22.7
2 21	11 34.57	- 6 55.6	1.667	2.588	9.9	20.9	2 21	11 33.23	+ 2 50.9	1.929	2.873	7.1	22.4
3 2	11 25.57	- 6 23.3	1.615	2.583	6.1	20.7	3 2	11 24.94	+ 3 53.9	1.887	2.871	3.0	22.2
3 12	11 15.58	- 5 34.4	1.591	2.576	3.7	20.5	3 12	11 15.90	+ 5 1.3	1.875	2.868	1.3	22.0
3 22	11 5.73	- 4 34.9	1.595	2.569	5.9	20.6	3 22	11 7.06	+ 6 6.5	1.893	2.864	5.5	22.3
4 1	10 57.13	- 3 32.3	1.627	2.562	9.9	20.8	4 1	10 59.32	+ 7 3.5	1.939	2.859	9.5	22.5
4 11	10 50.69	- 2 34.1	1.682	2.553	13.7	21.1	4 11	10 53.43	+ 7 47.6	2.010	2.854	12.9	22.8
<b>456744</b>	2007 TG <sub>29</sub>		3 9.1 49°55	0°9/ 9.8 18			<b>292417</b>	2006 SC <sub>298</sub>		3 9.1 63°61	1°2/ 7.9 17		
2 1	11 42.68	- 0 32.0	1.371	2.182	18.6	21.3	2 1	11 41.12	+ 6 8.0	2.255	3.058	12.5	20.4
2 11	11 39.30	- 0 9.8	1.306	2.195	14.5	21.1	2 11	11 37.05	+ 6 36.4	2.179	3.067	9.5	20.3
2 21	11 33.12	+ 0 33.0	1.261	2.209	9.7	20.9	2 21	11 31.17	+ 7 13.4	2.126	3.077	6.1	20.1
3 2	11 24.92	+ 1 32.0	1.240	2.223	4.4	20.6	3 2	11 24.00	+ 7 54.9	2.102	3.086	2.5	19.8
3 12	11 15.89	+ 2 39.0	1.244	2.237	1.5	20.4	3 12	11 16.31	+ 8 35.7	2.106	3.096	2.0	19.8
3 22	11 7.37	+ 3 44.9	1.275	2.252	6.7	20.8	3 22	11 8.89	+ 9 11.0	2.140	3.106	5.4	20.1
4 1	11 0.57	+ 4 41.1	1.331	2.267	11.5	21.1	4 1	11 2.52	+ 9 36.9	2.201	3.115	8.8	20.3
4 11	10 56.29	+ 5 21.7	1.408	2.282	15.7	21.4	4 11	10 57.78	+ 9 51.0	2.286	3.125	11.8	20.5
<b>253138</b>	2002 VW <sub>46</sub>		3 9.1 25°89	5°8/14.6 18			<b>110769</b>	2001 UJ <sub>26</sub>		3 9.1 97°01	5°9/15.2 18		
2 1	11 35.30	-13 0.3	1.203	1.986	22.3	19.6	2 1	11 43.23	-14 35.2	1.960	2.678	16.9	20.0
2 11	11 33.98	-12 50.3	1.142	2.001	18.5	19.3	2 11	11 39.04	-14 52.4	1.881	2.693	14.3	19.8
2 21	11 29.80	-12 3.6	1.098	2.018	14.0	19.1	2 21	11 32.67	-14 45.9	1.821	2.709	11.2	19.7
3 2	11 23.55	-10 41.0	1.075	2.036	9.4	18.9	3 2	11 24.70	-14 14.9	1.784	2.724	8.2	19.5
3 12	11 16.45	- 8 50.1	1.074	2.055	6.0	18.8	3 12	11 16.05	-13 21.9	1.774	2.739	6.1	19.4
3 22	11 9.88	- 6 43.6	1.098	2.076	7.2	18.9	3 22	11 7.71	-12 12.3	1.791	2.754	6.6	19.5
4 1	11 5.04	- 4 36.5	1.146	2.098	11.3	19.2	4 1	11 0.63	-10 54.0	1.835	2.769	9.1	19.6
4 11	11 2.75	- 2 42.1	1.216	2.120	15.4	19.5	4 11	10 55.50	- 9 35.2	1.905	2.783	12.0	19.8
<b>155202</b>	2005 UU <sub>444</sub>		3 9.1 174°77	0°4/ 9.5 18			<b>103912</b>	2000 DA <sub>60</sub>		3 9.1 317°54	0°1/ 8.9 17		
2 1	11 47.28	+ 0 37.2	1.839	2.625	15.5	20.9	2 1	11 40.65	+ 2 31.7	1.993	2.793	14.0	20.0
2 11	11 42.30	+ 1 1.2	1.752	2.628	12.2	20.6	2 11	11 37.09	+ 2 54.9	1.902	2.787	10.9	19.8
2 21	11 34.89	+ 1 41.0	1.688	2.631	8.1	20.4	2 21	11 31.43	+ 3 31.3	1.834	2.782	7.2	19.6
3 2	11 25.65	+ 2 32.8	1.650	2.633	3.6	20.1	3 2	11 24.21	+ 4 17.0	1.793	2.777	3.0	19.3
3 12	11 15.58	+ 3 30.6	1.641	2.634	1.3	20.0	3 12	11 16.24	+ 5 6.7	1.779	2.771	1.3	19.1
3 22	11 5.77	+ 4 27.5	1.661	2.634	5.9	20.3	3 22	11 8.46	+ 5 54.4	1.794	2.766	5.6	19.4
4 1	10 57.30	+ 5 17.0	1.709	2.633	10.2	20.5	4 1	11 1.78	+ 6 34.4	1.836	2.762	9.6	19.7
4 11	10 50.98	+ 5 54.1	1.780	2.632	14.0	20.8	4 11	10 56.91	+ 7 2.6	1.901	2.757	13.1	19.9
<b>146389</b>	2001 QM <sub>82</sub>		3 9.1 218°72	2°9/12.0 18			<b>274501</b>	2008 ST <sub>135</sub>		3 9.1 113°65	1°2/ 7.8 17		
2 1	11 45.15	- 6 8.1	2.394	3.139	13.5	21.0	2 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>326412</b>	2001 SW <sub>229</sub>		3 9.1 157°72	1°9/ 7.2 18			<b>455976</b>	2005 WP <sub>25</sub>		3 9.1 149°95	1°5/10.4 18		
2 1	11 45.29	+ 8 1.1	2.141	2.944	13.1	21.7	2 1	11 47.56	- 2 6.4	1.823	2.599	16.0	23.0
2 11	11 40.39	+ 8 37.6	2.061	2.950	10.0	21.5	2 11	11 42.49	- 1 49.9	1.742	2.609	12.7	22.8
2 21	11 33.44	+ 9 22.4	2.005	2.955	6.4	21.3	2 21	11 34.99	- 1 15.9	1.682	2.619	8.7	22.6
3 2	11 25.01	+10 10.3	1.977	2.960	2.9	21.0	3 2	11 25.73	- 0 27.3	1.649	2.628	4.3	22.4
3 12	11 15.94	+10 55.5	1.978	2.965	2.8	21.0	3 12	11 15.68	+ 0 30.4	1.644	2.636	1.7	22.2
3 22	11 7.17	+11 32.5	2.009	2.969	6.3	21.3	3 22	11 5.96	+ 1 30.3	1.668	2.643	5.6	22.5
4 1	10 59.56	+11 57.4	2.067	2.972	9.8	21.5	4 1	10 57.63	+ 2 25.3	1.720	2.649	9.9	22.7
4 11	10 53.77	+12 8.1	2.149	2.975	12.9	21.7	4 11	10 51.47	+ 3 10.1	1.796	2.655	13.6	23.0
<b>281923</b>	2011 FX <sub>12</sub>		3 9.1 221°88	3°5/ 5.3 17			<b>157669</b>	2005 YM <sub>77</sub>		3 9.1 279°57	0°6/ 8.6 17		
2 1	11 42.09	+12 5.9	2.161	2.979	12.4	21.0	2 1	11 42.46	+ 3 46.2	1.942	2.744	14.2	20.7
2 11	11 38.03	+13 3.3	2.078	2.975	9.5	20.8	2 11	11 38.67	+ 4 10.8	1.841	2.728	11.1	20.5
2 21	11 31.96	+14 7.0	2.019	2.971	6.3	20.6	2 21	11 32.60	+ 4 48.3	1.762	2.711	7.3	20.2
3 2	11 24.40	+15 10.8	1.988	2.966	3.7	20.4	3 2	11 24.78	+ 5 34.9	1.710	2.694	3.0	19.9
3 12	11 16.18	+16 7.8	1.986	2.962	4.4	20.4	3 12	11 16.03	+ 6 24.8	1.686	2.677	1.7	19.8
3 22	11 8.16	+16 52.1	2.012	2.957	7.4	20.6	3 22	11 7.37	+ 7 11.7	1.690	2.660	6.1	20.0
4 1	11 1.23	+17 19.9	2.064	2.952	10.7	20.8	4 1	10 59.81	+ 7 49.7	1.721	2.643	10.3	20.2
4 11	10 56.05	+17 29.6	2.140	2.947	13.6	21.0	4 11	10 54.17	+ 8 14.6	1.775	2.626	14.1	20.4
<b>279492</b>	2011 AX <sub>5</sub>		3 9.1 332°96	5°4/12.6 17			<b>214916</b>	2007 TN <sub>257</sub>		3 9.1 49°96	1°8/ 7.8 18		
2 1	11 45.46	- 6 54.9	1.613	2.382	18.1	20.0	2 1	11 44.99	+ 6 3.2	1.348	2.175	18.0	20.9
2 11	11 41.47	- 7 55.3	1.519	2.373	15.0	19.7	2 11	11 41.09	+ 6 34.4	1.289	2.190	13.8	20.6
2 21	11 34.71	- 8 38.4	1.445	2.364	11.3	19.5	2 21	11 34.31	+ 7 19.3	1.250	2.205	8.9	20.4
3 2	11 25.74	- 9 2.1	1.395	2.356	7.6	19.2	3 2	11 25.45	+ 8 11.1	1.235	2.220	3.7	20.1
3 12	11 15.60	- 9 6.8	1.370	2.349	5.4	19.1	3 12	11 15.82	+ 9 1.0	1.247	2.237	2.9	20.1
3 22	11 5.54	- 8 55.7	1.371	2.342	7.2	19.2	3 22	11 6.80	+ 9 41.0	1.284	2.253	7.8	20.5
4 1	10 56.89	- 8 34.4	1.398	2.336	11.0	19.4	4 1	10 59.60	+10 5.4	1.346	2.270	12.5	20.8
4 11	10 50.64	- 8 10.2	1.448	2.330	14.9	19.6	4 11	10 55.03	+10 11.5	1.428	2.287	16.5	21.1
<b>354825</b>	2005 WK <sub>159</sub>		3 9.1 123°33	3°0/ 4.3 17			<b>500475</b>	2012 TF <sub>236</sub>		3 9.1 64°46	2°4/ 6.4 17		
2 1	11 39.38	+14 27.9	3.319	4.127	8.7	22.4	2 1	11 40.21	+ 8 56.8	2.163	2.977	12.5	21.1
2 11	11 35.15	+15 30.4	3.254	4.145	6.6	22.3	2 11	11 36.45	+ 9 49.7	2.092	2.988	9.5	20.9
2 21	11 29.66	+16 34.9	3.216	4.163	4.5	22.1	2 21	11 30.84	+10 50.3	2.045	2.998	6.1	20.7
3 2	11 23.32	+17 37.1	3.208	4.180	3.0	22.0	3 2	11 23.90	+11 53.0	2.026	3.009	3.0	20.5
3 12	11 16.64	+18 32.6	3.231	4.196	3.6	22.1	3 12	11 16.44	+12 51.4	2.036	3.020	3.3	20.6
3 22	11 10.17	+19 17.9	3.284	4.213	5.5	22.3	3 22	11 9.27	+13 39.8	2.075	3.030	6.5	20.8
4 1	11 4.41	+19 50.7	3.365	4.228	7.6	22.4	4 1	11 3.18	+14 14.2	2.140	3.041	9.7	21.0
4 11	10 59.79	+20 10.1	3.470	4.244	9.5	22.6	4 11	10 58.76	+14 32.6	2.229	3.052	12.6	21.2
<b>120594</b>	1995 SD <sub>72</sub>		3 9.1 196°33	0°6/ 8.5 17			<b>424343</b>	2007 UL <sub>136</sub>		3 9.1 125°02	5°3/ 2.5 17		
2 1	11 43.08	+ 4 0.7	2.134	2.931	13.3	21.0	2 1	11 42.07	+19 31.8	2.416	3.236	11.2	21.2
2 11	11 38.77	+ 4 27.6	2.045	2.929	10.3	20.7	2 11	11 37.76	+20 45.8	2.352	3.245	8.7	21.0
2 21	11 32.44	+ 5 5.6	1.980	2.928	6.7	20.5	2 21	11 31.63	+21 59.7	2.314	3.254	6.4	20.9
3 2	11 24.61	+ 5 50.9	1.941	2.926	2.8	20.3	3 2	11 24.22	+23 6.7	2.304	3.262	5.3	20.8
3 12	11 16.10	+ 6 38.1	1.932	2.924	1.6	20.2	3 12	11 16.31	+24 0.3	2.323	3.270	6.2	20.9
3 22	11 7.79	+ 7 21.6	1.952	2.921	5.6	20.4	3 22	11 8.69	+24 36.1	2.369	3.278	8.4	21.0
4 1	11 0.56	+ 7 56.6	2.000	2.919	9.3	20.7	4 1	11 2.12	+24 52.2	2.441	3.285	10.8	21.2
4 11	10 55.10	+ 8 19.6	2.072	2.916	12.6	20.9	4 11	10 57.19	+24 48.8	2.535	3.293	13.0	21.4
<b>217909</b>	2001 SH <sub>148</sub>		3 9.1 191°83	0°7/ 9.9 16			<b>68046</b>	2000 YP <sub>45</sub>		3 9.1 135°06	0°1/ 9.3 18		
2 1	11 45.15	- 0 0.8	2.565	3.332	12.1	22.4	2 1	11 45.58	+ 0 36.2	2.011	2.795	14.5	19.9
2 11	11 40.03	+ 0 14.5	2.466	3.330	9.5	22.2	2 11	11 40.67	+ 1 13.8	1.935	2.810	11.2	19.7
2 21	11 33.11	+ 0 41.3	2.390	3.327	6.4	22.0	2 21	11 33.65	+ 2 6.0	1.882	2.824	7.4	19.5
3 2	11 24.87	+ 1 17.2	2.344	3.324	3.0	21.8	3 2	11 25.11	+ 3 8.7	1.855	2.838	3.2	19.2
3 12	11 16.00	+ 1 58.3	2.327	3.319	1.1	21.6	3 12	11 15.95	+ 4 15.7	1.859	2.851	1.2	19.1
3 22	11 7.27	+ 2 40.4	2.342	3.314	4.5	21.8	3 22	11 7.14	+ 5 20.2	1.891	2.863	5.4	19.4
4 1	10 59.45	+ 3 18.9	2.386	3.308	7.8	22.0	4 1	10 59.56	+ 6 16.2	1.952	2.874	9.3	19.7
4 11	10 53.15	+ 3 50.2	2.456	3.302	10.8	22.2	4 11	10 53.91	+ 6 59.4	2.038	2.885	12.7	19.9
<b>234136</b>	2000 DT <sub>16</sub>		3 9.1 40°76	1°4/ 9.9 18			<b>500550</b>	2012 UF <sub>38</sub>		3 9.1 77°69	4°2/14.0 17		
2 1	11 49.09	+ 1 47.4	1.203	2.020	20.4	20.2	2 1	11 39.55	-11 17.7	2.341	3.071	14.2	21.4
2 11	11 44.71	+ 1 19.2	1.137	2.029	16.0	20.0	2 11	11 35.92	-11 21.0	2.251	3.078	11.7	21.2
2 21	11 36.95	+ 1 7.2	1.090	2.038	10.8	19.7	2 21	11 30.49	-11 5.5	2.183	3.085	9.0	21.0
3 2	11 26.66	+ 1 9.3	1.066	2.048	5.1	19.4	3 2	11 23.78	-10 31.6	2.140	3.092	6.1	20.9
3 12	11 15.30	+ 1 20.3	1.066	2.059	1.9	19.2	3 12	11 16.48	- 9 41.9	2.124	3.099	4.3	20.8
3 22	11 4.53	+ 1 33.7	1.092	2.069	7.4	19.6	3 22	11 9.37	- 8 41.2	2.137	3.107	5.1	20.8
4 1	10 55.87	+ 1 43.2	1.142	2.081	12.7	19.9	4 1	11 3.22	- 7 35.3	2.178	3.114	7.7	21.0
4 11	10 50.30	+ 1 43.7	1.212	2.093	17.3	20.2	4 11	10 58.63	- 6 30.5	2.245	3.121	10.5	21.2
<b>136715</b>	1995 UO <sub>14</sub>		3 9.1 64°35	3°0/12.6 18			<b>433359</b>	2013 RU <sub>94</sub>		3 9.1 146°64	5°8/15.8 17		
2 1	11 39.22	- 7 42.9	2.283	3.035	13.9	20.0	2 1	11 43.76	-16 9.8	2.475	3.163	14.5	22.1
2 11	11 35.65	- 7 34.9	2.197	3.044	11.3	19.8	2 11	11 39.09	-16 36.1	2.383	3.172	12.4	21.9
2 21	11 30.31	- 7 9.5	2.134	3.053	8.2	19.6	2 21	11 32.56	-16 43.1	2.310	3.180	9.9	21.8
3 2	11 23.68	- 6 27.9	2.096	3.062	5.1	19.5	3 2	11 24.66	-16 29.4	2.263	3.188	7.6	21.6
3 12	11 16.50	- 5 33.8	2.087	3.071	3.0	19.3	3 12	11 16.12	-15 56.4	2.242	3.196	6.0	21.5
3 22	11 9.54	- 4 32.3	2.106	3.080	4.7	19.5	3 22	11 7.76	-15 7.3	2.250	3.203	6.2	21.6
4 1	11 3.55	- 3 29.5	2.153	3.090	7.7	19.7	4 1	11 0.37	-14 7.5	2.286	3.209	8.1	21.7
4 11	10 59.13	- 2 31.0	2.226	3.099	10.7	19.9	4 11	10 54.60	-13 3.7	2.348	3.216	10.5	21.9
<b>374313</b>	2005 SL <sub>229</sub>		3 9.1 264°81	0°6/ 8.6 17			<b>466417</b>	2013 TQ <sub>6</sub>		3 9.1 216°47	0°9/10.1 17		
2 1	11 44.95	+ 4 5.1	1.950	2.748	14.3	22.3							

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>430274</b>	2013 <i>WF</i> <sub>53</sub>		3 9.1 68°30	6°4/15.7	17		<b>86270</b>	1999 <i>TZ</i> <sub>279</sub>		3 9.1 243°34	1°0/ 7.8	18	
2 1	11 42.22	-15 17.6	2.102	2.812	16.2	20.7	2 1	11 39.76	+ 5 43.9	2.692	3.489	10.9	19.9
2 11	11 38.25	-15 54.2	2.014	2.818	13.8	20.6	2 11	11 35.88	+ 6 18.7	2.594	3.479	8.3	19.8
2 21	11 32.18	-16 9.4	1.945	2.825	11.1	20.4	2 21	11 30.40	+ 7 1.9	2.521	3.470	5.4	19.5
3 2	11 24.55	-16 1.6	1.900	2.831	8.4	20.2	3 2	11 23.75	+ 7 50.0	2.475	3.460	2.2	19.3
3 12	11 16.17	-15 31.8	1.880	2.838	6.6	20.1	3 12	11 16.54	+ 8 38.3	2.460	3.450	1.8	19.3
3 22	11 7.99	-14 43.9	1.887	2.844	6.9	20.2	3 22	11 9.45	+ 9 22.5	2.475	3.440	4.9	19.5
4 1	11 0.92	-13 44.0	1.922	2.851	9.0	20.3	4 1	11 3.14	+ 9 58.5	2.518	3.429	8.0	19.6
4 11	10 55.68	-12 39.6	1.981	2.857	11.7	20.5	4 11	10 58.18	+10 23.6	2.587	3.419	10.8	19.8
<b>461795</b>	2005 <i>WX</i> <sub>13</sub>		3 9.1 232°81	5°6/15.1	17		<b>402887</b>	2007 <i>RW</i> <sub>320</sub>		3 9.1 142°01	1°6/ 7.6	18	
2 1	11 42.26	-14 51.7	2.274	2.980	15.2	21.8	2 1	11 46.01	+ 5 38.4	1.931	2.732	14.3	21.8
2 11	11 38.26	-15 5.8	2.164	2.969	12.9	21.6	2 11	11 41.14	+ 6 27.1	1.856	2.744	11.0	21.6
2 21	11 32.22	-14 58.8	2.074	2.957	10.3	21.4	2 21	11 34.03	+ 7 27.4	1.805	2.755	7.1	21.4
3 2	11 24.60	-14 29.4	2.008	2.945	7.6	21.2	3 2	11 25.32	+ 8 33.6	1.781	2.765	3.0	21.2
3 12	11 16.14	-13 38.8	1.968	2.932	5.8	21.1	3 12	11 15.95	+ 9 38.4	1.786	2.775	2.5	21.2
3 22	11 7.71	-12 31.1	1.957	2.919	6.3	21.1	3 22	11 6.92	+10 35.0	1.821	2.784	6.5	21.4
4 1	11 0.24	-11 12.8	1.974	2.905	8.7	21.2	4 1	10 59.21	+11 18.1	1.882	2.792	10.3	21.7
4 11	10 54.46	- 9 51.6	2.017	2.891	11.6	21.3	4 11	10 53.50	+11 45.0	1.968	2.800	13.7	21.9
<b>221881</b>	2008 <i>HP</i> <sub>37</sub>		3 9.1 183°26	1°8/ 7.1	18		<b>14850</b>	Nagashimacho		3 9.1 196°52	1°3/10.2	18	
2 1	11 44.60	+ 8 15.1	2.562	3.358	11.4	20.8	2 1	11 47.30	- 1 7.2	1.711	2.496	16.6	19.1
2 11	11 39.59	+ 8 53.9	2.473	3.358	8.7	20.6	2 11	11 42.62	- 0 54.2	1.621	2.494	13.1	18.9
2 21	11 32.80	+ 9 39.7	2.410	3.358	5.6	20.4	2 21	11 35.31	- 0 23.5	1.552	2.491	9.0	18.6
3 2	11 24.75	+10 28.2	2.375	3.358	2.6	20.2	3 2	11 25.98	+ 0 22.3	1.508	2.488	4.3	18.4
3 12	11 16.11	+11 14.3	2.371	3.356	2.5	20.2	3 12	11 15.65	+ 1 17.6	1.492	2.484	1.6	18.1
3 22	11 7.68	+11 53.4	2.397	3.354	5.6	20.4	3 22	11 5.52	+ 2 15.1	1.504	2.479	6.1	18.4
4 1	11 0.18	+12 21.8	2.452	3.351	8.7	20.6	4 1	10 56.80	+ 3 7.6	1.543	2.473	10.7	18.7
4 11	10 54.21	+12 37.5	2.531	3.348	11.5	20.7	4 11	10 50.37	+ 3 48.9	1.606	2.467	14.8	18.9
<b>136096</b>	2003 <i>CV</i> <sub>8</sub>		3 9.1 86°07	4°0/ 3.9	18		<b>333828</b>	2012 <i>JM</i> <sub>24</sub>		3 9.1 344°31	3°6/ 6.3	18	
2 1	11 41.06	+14 18.8	2.422	3.240	11.3	19.7	2 1	11 34.09	+ 7 38.0	1.154	2.012	18.3	19.4
2 11	11 36.85	+15 42.1	2.369	3.265	8.5	19.5	2 11	11 33.46	+ 8 36.6	1.076	1.995	14.1	19.1
2 21	11 30.96	+17 8.5	2.341	3.289	5.8	19.4	2 21	11 29.82	+ 9 53.7	1.018	1.980	9.2	18.7
3 2	11 23.92	+18 31.1	2.343	3.314	4.1	19.3	3 2	11 23.78	+11 20.7	0.981	1.966	4.4	18.4
3 12	11 16.47	+19 43.3	2.374	3.338	4.9	19.4	3 12	11 16.51	+12 44.9	0.968	1.955	5.0	18.4
3 22	11 9.36	+20 40.2	2.434	3.361	7.3	19.6	3 22	11 9.48	+13 53.8	0.978	1.945	10.1	18.6
4 1	11 3.28	+21 19.0	2.521	3.385	9.9	19.8	4 1	11 4.15	+14 37.9	1.010	1.936	15.4	18.9
4 11	10 58.75	+21 39.0	2.630	3.408	12.1	20.0	4 11	11 1.58	+14 53.1	1.059	1.930	20.0	19.2
<b>424858</b>	2008 <i>UT</i> <sub>355</sub>		3 9.1 169°33	4°0/ 4.2	17		<b>323103</b>	2002 <i>XR</i> <sub>25</sub>		3 9.2 85°37	0°7/ 9.8	18	
2 1	11 42.02	+14 46.9	2.420	3.236	11.3	21.4	2 1	11 45.04	- 0 2.0	1.751	2.543	16.0	21.5
2 11	11 37.74	+15 53.3	2.344	3.239	8.6	21.2	2 11	11 40.51	+ 0 18.2	1.684	2.562	12.4	21.3
2 21	11 31.65	+17 3.4	2.293	3.241	5.9	21.0	2 21	11 33.66	+ 0 54.4	1.638	2.581	8.3	21.1
3 2	11 24.27	+18 10.9	2.271	3.243	4.1	20.9	3 2	11 25.16	+ 1 42.7	1.618	2.600	3.8	20.9
3 12	11 16.32	+19 9.3	2.279	3.245	4.9	21.0	3 12	11 16.04	+ 2 36.9	1.626	2.619	1.3	20.7
3 22	11 8.62	+19 53.8	2.315	3.246	7.4	21.1	3 22	11 7.36	+ 3 30.2	1.663	2.638	5.7	21.1
4 1	11 1.90	+20 21.1	2.378	3.247	10.2	21.3	4 1	11 0.10	+ 4 16.3	1.726	2.656	9.8	21.3
4 11	10 56.78	+20 30.5	2.464	3.248	12.7	21.5	4 11	10 54.98	+ 4 50.6	1.813	2.674	13.4	21.6
<b>74516</b>	1999 <i>FD</i> <sub>30</sub>		3 9.1 343°50	2°2/ 7.1	18		<b>42927</b>	1999 <i>TP</i> <sub>7</sub>		3 9.2 243°06	6°8/15.3	17	
2 1	11 40.10	+ 8 10.8	1.807	2.630	14.3	18.6	2 1	11 44.98	-15 55.3	2.090	2.791	16.5	19.8
2 11	11 36.89	+ 8 44.6	1.723	2.623	10.9	18.4	2 11	11 40.68	-16 27.7	1.976	2.774	14.2	19.6
2 21	11 31.43	+ 9 28.2	1.662	2.616	7.1	18.1	2 21	11 34.02	-16 38.3	1.880	2.757	11.5	19.4
3 2	11 24.26	+10 16.2	1.626	2.610	3.2	17.9	3 2	11 25.47	-16 24.3	1.808	2.739	8.8	19.2
3 12	11 16.31	+11 1.5	1.617	2.604	3.2	17.8	3 12	11 15.84	-15 45.6	1.762	2.720	7.0	19.0
3 22	11 8.59	+11 38.0	1.636	2.600	7.1	18.1	3 22	11 6.14	-14 45.6	1.744	2.700	7.4	19.0
4 1	11 2.10	+12 0.7	1.681	2.595	11.1	18.3	4 1	10 57.47	-13 30.8	1.753	2.680	9.9	19.1
4 11	10 57.59	+12 6.9	1.747	2.592	14.6	18.5	4 11	10 50.71	-12 9.7	1.786	2.659	13.0	19.2
<b>435266</b>	2007 <i>TV</i> <sub>227</sub>		3 9.1 131°74	0°4/ 9.6	17		<b>466441</b>	2013 <i>TL</i> <sub>71</sub>		3 9.2 226°36	1°4/ 7.9	17	
2 1	11 41.16	+ 0 58.8	2.428	3.211	12.3	22.3	2 1	11 46.12	+ 7 25.8	2.054	2.856	13.6	21.3
2 11	11 37.02	+ 1 21.2	2.343	3.217	9.6	22.1	2 11	11 41.24	+ 7 41.3	1.963	2.851	10.4	21.1
2 21	11 31.15	+ 1 55.0	2.281	3.223	6.3	21.9	2 21	11 34.15	+ 8 5.0	1.897	2.846	6.8	20.9
3 2	11 24.05	+ 2 37.4	2.247	3.230	2.8	21.7	3 2	11 25.41	+ 8 32.5	1.857	2.841	2.9	20.6
3 12	11 16.42	+ 3 23.8	2.243	3.235	1.0	21.6	3 12	11 15.91	+ 8 58.8	1.847	2.836	2.3	20.6
3 22	11 9.01	+ 4 9.6	2.268	3.241	4.5	21.8	3 22	11 6.63	+ 9 19.0	1.865	2.831	6.2	20.8
4 1	11 2.53	+ 4 50.2	2.322	3.247	7.9	22.0	4 1	10 58.53	+ 9 29.1	1.911	2.825	10.0	21.0
4 11	10 57.56	+ 5 21.9	2.401	3.252	10.9	22.2	4 11	10 52.35	+ 9 27.1	1.981	2.819	13.4	21.2
<b>422674</b>	1999 <i>VQ</i> <sub>119</sub>		3 9.1 149°40	1°2/10.4	17		<b>260527</b>	2005 <i>EN</i> <sub>121</sub>		3 9.2 33°09	0°7/ 8.5	18	
2 1	11 42.35	- 1 42.4	2.270	3.043	13.3	22.1	2 1	11 39.97	+ 1 31.2	1.377	2.198	18.0	20.4
2 11	11 38.07	- 1 25.4	2.182	3.049	10.5	21.9	2 11	11 37.33	+ 2 26.0	1.307	2.205	13.9	20.2
2 21	11 31.91	- 0 54.5	2.118	3.054	7.2	21.7	2 21	11 31.96	+ 3 41.8	1.258	2.211	9.0	19.9
3 2	11 24.40	- 0 12.1	2.080	3.059	3.5	21.5	3 2	11 24.56	+ 5 12.0	1.233	2.218	3.7	19.6
3 12	11 16.28	+ 0 37.5	2.072	3.064	1.4	21.3	3 12	11 16.28	+ 6 46.2	1.234	2.226	2.1	19.5
3 22	11 8.39	+ 1 29.0	2.093	3.068	4.7	21.5	3 22	11 8.40	+ 8 13.4	1.262	2.234	7.4	19.9
4 1	11 1.50	+ 2 17.0	2.143	3.072	8.2	21.8	4 1	11 2.13	+ 9 24.4	1.313	2.243	12.3	20.2
4 11	10 56.26	+ 2 57.1	2.218	3.076	11.4	22.0	4 11	10 58.31	+10 13.5	1.387	2.252	16.5	20.5
<b>450935</b>	2008 <i>FX</i> <sub>21</sub>		3 9.1 213°89	3°1/ 6.4	18		<b>4903</b>	Ichikawa		3 9.2 187°34	0°9/ 7.9	18	
2 1	11												

EPHEMERIDES

3 9.2

3 9.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>390426</b>	2013 <i>YO</i> <sub>43</sub>		3 9.2 339°21	4.8/ 3.2	17		<b>210677</b>	2000 <i>RB</i> <sub>4</sub>		3 9.2 199°52	1.2/10.9	18	
2 1	11 39.68	+16 7.1	2.206	3.033	11.9	20.2	2 1	11 38.47	- 3 56.7	3.106	3.860	10.5	21.1
2 11	11 36.19	+17 26.1	2.132	3.032	9.1	20.1	2 11	11 34.68	- 3 17.0	3.002	3.856	8.3	20.9
2 21	11 30.78	+18 48.6	2.083	3.031	6.4	19.9	2 21	11 29.54	- 2 24.3	2.922	3.852	5.8	20.7
3 2	11 23.97	+20 7.4	2.062	3.030	4.9	19.8	3 2	11 23.41	- 1 20.9	2.871	3.847	3.0	20.5
3 12	11 16.54	+21 15.0	2.069	3.029	5.9	19.8	3 12	11 16.81	- 0 10.7	2.851	3.842	1.2	20.4
3 22	11 9.34	+22 5.7	2.103	3.028	8.5	20.0	3 22	11 10.32	+ 1 2.0	2.862	3.836	3.6	20.5
4 1	11 3.18	+22 36.1	2.164	3.027	11.3	20.2	4 1	11 4.49	+ 2 12.4	2.903	3.830	6.4	20.7
4 11	10 58.72	+22 45.5	2.245	3.026	13.8	20.4	4 11	10 59.79	+ 3 16.2	2.971	3.823	9.0	20.9
<b>456667</b>	2007 <i>RK</i> <sub>66</sub>		3 9.2 108°62	0°1/ 9.3	18		<b>375306</b>	2008 <i>QT</i> <sub>33</sub>		3 9.2 127°02	0°2/ 9.5	17	
2 1	11 45.54	+ 0 9.4	1.798	2.587	15.7	22.1	2 1	11 40.48	- 0 12.3	2.152	2.938	13.6	21.0
2 11	11 40.84	+ 0 53.7	1.730	2.608	12.2	21.9	2 11	11 36.75	+ 0 32.0	2.069	2.945	10.5	20.8
2 21	11 33.85	+ 1 54.6	1.685	2.629	8.0	21.7	2 21	11 31.12	+ 1 31.4	2.009	2.952	7.0	20.6
3 2	11 25.26	+ 3 7.2	1.666	2.649	3.4	21.5	3 2	11 24.13	+ 2 41.9	1.976	2.958	3.1	20.3
3 12	11 16.05	+ 4 24.0	1.676	2.668	1.3	21.3	3 12	11 16.53	+ 3 57.5	1.972	2.965	1.1	20.2
3 22	11 7.28	+ 5 37.2	1.715	2.687	5.8	21.7	3 22	11 9.17	+ 5 11.5	1.998	2.971	5.1	20.5
4 1	10 59.92	+ 6 40.0	1.781	2.705	9.9	22.0	4 1	11 2.85	+ 6 17.6	2.052	2.977	8.8	20.7
4 11	10 54.65	+ 7 27.7	1.871	2.723	13.5	22.2	4 11	10 58.20	+ 7 11.2	2.130	2.982	12.0	20.9
<b>458758</b>	2011 <i>SU</i>		3 9.2 136°37	0°7/ 9.8	18		<b>523660</b>	2012 <i>KY</i> <sub>41</sub>		3 9.2 150°02	8°0/18.7	18	
2 1	11 46.61	- 0 39.0	1.865	2.647	15.5	23.2	2 1	11 50.23	-24 34.7	2.258	2.881	17.2	23.1
2 11	11 41.68	- 0 10.7	1.788	2.661	12.1	23.0	2 11	11 44.30	-24 41.6	2.166	2.899	15.1	22.9
2 21	11 34.44	+ 0 34.1	1.733	2.674	8.1	22.8	2 21	11 36.10	-24 20.6	2.092	2.915	12.7	22.8
3 2	11 25.53	+ 1 31.5	1.705	2.686	3.7	22.6	3 2	11 26.26	-23 29.2	2.041	2.930	10.3	22.6
3 12	11 15.93	+ 2 35.3	1.705	2.698	1.2	22.4	3 12	11 15.69	-22 8.5	2.016	2.943	8.4	22.5
3 22	11 6.69	+ 3 38.5	1.735	2.709	5.6	22.7	3 22	11 5.44	-20 23.3	2.019	2.954	8.1	22.5
4 1	10 58.80	+ 4 34.5	1.793	2.719	9.7	23.0	4 1	10 56.48	-18 22.4	2.052	2.964	9.5	22.6
4 11	10 52.98	+ 5 18.3	1.874	2.728	13.3	23.2	4 11	10 49.56	-16 16.1	2.112	2.973	11.8	22.8
<b>500093</b>	2012 <i>BB</i> <sub>17</sub>		3 9.2 340°17	2°5/ 7.2	17		<b>253034</b>	2002 <i>SU</i> <sub>2</sub>		3 9.2 222°05	13°6/21.3	18	
2 1	11 39.91	+ 6 47.4	1.344	2.181	17.4	21.3	2 1	11 43.85	-27 45.5	1.418	2.083	24.4	20.7
2 11	11 37.53	+ 7 32.2	1.265	2.172	13.4	21.0	2 11	11 41.04	-28 48.2	1.327	2.078	22.2	20.5
2 21	11 32.28	+ 8 32.6	1.206	2.164	8.7	20.7	2 21	11 34.94	-29 13.1	1.248	2.072	19.6	20.3
3 2	11 24.78	+ 9 41.5	1.171	2.156	3.9	20.4	3 2	11 26.09	-28 51.2	1.186	2.066	16.8	20.0
3 12	11 16.20	+10 49.0	1.162	2.150	3.8	20.3	3 12	11 15.69	-27 37.6	1.143	2.059	14.4	19.9
3 22	11 7.88	+11 45.0	1.177	2.144	8.7	20.6	3 22	11 5.34	-25 35.2	1.121	2.051	13.6	19.8
4 1	11 1.18	+12 22.2	1.216	2.139	13.6	20.9	4 1	10 56.73	-22 55.2	1.123	2.043	14.8	19.8
4 11	10 57.06	+12 36.7	1.275	2.135	17.9	21.1	4 11	10 51.12	-19 56.0	1.146	2.035	17.5	20.0
<b>465672</b>	2009 <i>SD</i> <sub>105</sub>		3 9.2 73°85	2°8/ 7.1	18		<b>426302</b>	2012 <i>TG</i> <sub>139</sub>		3 9.2 140°18	0°8/10.0	17	
2 1	11 49.62	+11 30.6	1.804	2.616	14.8	21.0	2 1	11 43.50	+ 0 41.8	2.494	3.269	12.2	21.3
2 11	11 44.08	+11 40.7	1.730	2.622	11.3	20.8	2 11	11 38.78	+ 0 44.8	2.406	3.275	9.6	21.1
2 21	11 36.05	+11 55.6	1.678	2.629	7.4	20.6	2 21	11 32.33	+ 0 58.1	2.342	3.281	6.4	20.9
3 2	11 26.22	+12 9.8	1.653	2.635	3.7	20.3	3 2	11 24.63	+ 1 19.7	2.306	3.286	3.0	20.7
3 12	11 15.67	+12 17.7	1.656	2.641	3.6	20.3	3 12	11 16.38	+ 1 46.0	2.299	3.291	1.1	20.6
3 22	11 5.56	+12 15.1	1.688	2.648	7.3	20.6	3 22	11 8.34	+ 2 13.2	2.322	3.296	4.4	20.8
4 1	10 56.96	+11 59.6	1.747	2.654	11.2	20.8	4 1	11 1.24	+ 2 37.4	2.375	3.301	7.7	21.0
4 11	10 50.63	+11 30.7	1.828	2.660	14.5	21.1	4 11	10 55.66	+ 2 55.3	2.453	3.305	10.6	21.2
<b>210549</b>	1999 <i>TG</i> <sub>3</sub>		3 9.2 255°66	0°2/ 9.4	16		<b>353816</b>	2012 <i>TH</i> <sub>310</sub>		3 9.2 97°65	3°0/12.3	17	
2 1	11 43.22	+ 0 34.4	1.786	2.582	15.6	21.1	2 1	11 42.33	- 6 19.0	2.373	3.123	13.5	21.1
2 11	11 39.49	+ 1 5.0	1.686	2.567	12.2	20.8	2 11	11 38.03	- 6 31.2	2.284	3.130	10.9	21.0
2 21	11 33.31	+ 1 53.1	1.607	2.553	8.2	20.5	2 21	11 31.90	- 6 28.6	2.218	3.136	7.9	20.8
3 2	11 25.19	+ 2 55.2	1.554	2.537	3.6	20.2	3 2	11 24.47	- 6 12.0	2.177	3.143	4.9	20.6
3 12	11 16.04	+ 4 5.0	1.529	2.522	1.3	20.0	3 12	11 16.44	- 5 43.9	2.166	3.150	3.0	20.5
3 22	11 6.96	+ 5 14.6	1.532	2.506	6.2	20.3	3 22	11 8.61	- 5 8.3	2.183	3.156	4.7	20.6
4 1	10 59.08	+ 6 16.3	1.562	2.489	10.8	20.5	4 1	11 1.74	- 4 29.9	2.229	3.163	7.7	20.8
4 11	10 53.31	+ 7 4.0	1.615	2.473	14.9	20.7	4 11	10 56.46	- 3 53.7	2.300	3.169	10.6	21.0
<b>208348</b>	2001 <i>RT</i> <sub>2</sub>		3 9.2 77°40	1°1/10.1	18		<b>293673</b>	2007 <i>PH</i> <sub>24</sub>		3 9.2 230°03	2°1/11.1	18	
2 1	11 50.65	+ 1 46.6	2.295	3.064	13.3	19.7	2 1	11 43.57	- 4 29.1	1.813	2.587	16.2	21.3
2 11	11 44.19	+ 1 21.5	2.222	3.087	10.4	19.5	2 11	11 39.72	- 4 7.0	1.713	2.578	13.0	21.1
2 21	11 35.78	+ 1 5.6	2.174	3.110	7.0	19.4	2 21	11 33.44	- 3 24.0	1.634	2.567	9.1	20.8
3 2	11 26.02	+ 0 57.2	2.153	3.133	3.3	19.2	3 2	11 25.26	- 2 21.9	1.581	2.557	4.9	20.5
3 12	11 15.78	+ 0 53.6	2.164	3.156	1.3	19.1	3 12	11 16.09	- 1 6.2	1.555	2.546	2.1	20.3
3 22	11 5.95	+ 0 51.9	2.206	3.179	4.7	19.3	3 22	11 7.02	+ 0 15.6	1.557	2.534	5.7	20.5
4 1	10 57.36	+ 0 49.1	2.277	3.201	8.1	19.6	4 1	10 59.15	+ 1 34.8	1.587	2.522	10.2	20.8
4 11	10 50.60	+ 0 42.7	2.374	3.223	11.0	19.8	4 11	10 53.36	+ 2 43.8	1.641	2.509	14.2	21.0
<b>324505</b>	2006 <i>UC</i> <sub>346</sub>		3 9.2 100°37	2°3/ 6.8	18		<b>467877</b>	2011 <i>CE</i> <sub>103</sub>		3 9.2 34°35	0°0/ 8.9	17	
2 1	11 41.92	+ 5 45.7	1.777	2.592	14.8	20.8	2 1	11 40.12	+ 0 51.5	1.755	2.559	15.5	21.2
2 11	11 38.19	+ 7 3.3	1.709	2.604	11.3	20.6	2 11	11 36.93	+ 1 33.8	1.675	2.562	12.0	21.0
2 21	11 32.21	+ 8 34.4	1.663	2.617	7.2	20.4	2 21	11 31.48	+ 2 33.3	1.618	2.566	7.9	20.7
3 2	11 24.61	+10 11.7	1.645	2.629	3.2	20.2	3 2	11 24.36	+ 3 45.4	1.585	2.569	3.4	20.5
3 12	11 16.34	+11 45.8	1.655	2.641	3.4	20.2	3 12	11 16.49	+ 5 2.5	1.581	2.573	1.4	20.3
3 22	11 8.43	+13 7.9	1.693	2.652	7.3	20.5	3 22	11 8.90	+ 6 16.6	1.604	2.577	6.0	20.7
4 1	11 1.84	+14 11.8	1.758	2.664	11.2	20.7	4 1	11 2.56	+ 7 20.4	1.654	2.582	10.3	20.9
4 11	10 57.28	+14 54.3	1.845	2.675	14.5	21.0	4 11	10 58.23	+ 8 8.6	1.727	2.586	14.0	21.1
<b>252333</b>	2001 <i>SC</i> <sub>97</sub>		3 9.2 31°51	2°8/11.3	18		<b>128573</b>	2004 <i>PO</i> <sub>101</sub>		3 9.2 206°20	2°6/11.6		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>480108</b>	2015 <i>FS</i> <sub>45</sub>		3 9.2 265°38	3°5/ 5.1	17		<b>5875</b>	Kuga		3 9.2 85°99	4°2/12.4	18	
2 1	11 42.69	+14 38.5	2.564	3.376	10.9	21.9	2 1	11 45.20	- 6 54.2	1.589	2.360	18.2	16.3
2 11	11 38.30	+15 20.4	2.467	3.360	8.4	21.7	2 11	11 41.15	- 7 14.7	1.508	2.365	14.9	16.1
2 21	11 32.11	+16 5.6	2.395	3.343	5.7	21.5	2 21	11 34.43	- 7 13.5	1.447	2.371	10.9	15.9
3 2	11 24.58	+16 49.0	2.352	3.326	3.7	21.3	3 2	11 25.69	- 6 51.0	1.409	2.377	6.8	15.6
3 12	11 16.40	+17 25.3	2.338	3.309	4.3	21.3	3 12	11 16.01	- 6 10.4	1.397	2.382	4.2	15.5
3 22	11 8.33	+17 50.0	2.352	3.292	6.9	21.5	3 22	11 6.62	- 5 18.2	1.413	2.388	6.4	15.6
4 1	11 1.15	+18 0.3	2.395	3.274	9.7	21.6	4 1	10 58.73	- 4 22.3	1.454	2.393	10.5	15.9
4 11	10 55.48	+17 55.2	2.460	3.256	12.3	21.8	4 11	10 53.22	- 3 30.9	1.518	2.399	14.4	16.1
<b>247590</b>	2002 <i>TN</i> <sub>137</sub>		3 9.2 114°21	2°9/12.1	18		<b>204207</b>	2004 <i>CG</i> <sub>17</sub>		3 9.2 91°46	0°8/ 9.9	17	
2 1	11 46.04	- 6 38.9	2.133	2.881	14.9	21.6	2 1	11 43.40	+ 0 46.8	2.244	3.025	13.2	20.3
2 11	11 40.92	- 6 32.6	2.058	2.903	11.9	21.4	2 11	11 38.89	+ 0 50.3	2.161	3.034	10.3	20.1
2 21	11 33.79	- 6 8.6	2.005	2.925	8.6	21.2	2 21	11 32.50	+ 1 5.2	2.101	3.042	6.9	19.9
3 2	11 25.26	- 5 28.6	1.978	2.946	5.0	21.0	3 2	11 24.74	+ 1 29.1	2.069	3.050	3.2	19.7
3 12	11 16.16	- 4 36.7	1.980	2.966	2.9	20.9	3 12	11 16.40	+ 1 58.2	2.065	3.058	1.1	19.6
3 22	11 7.42	- 3 38.5	2.012	2.986	4.9	21.1	3 22	11 8.31	+ 2 27.9	2.091	3.066	4.7	19.8
4 1	10 59.88	- 2 40.1	2.072	3.004	8.3	21.3	4 1	11 1.28	+ 2 54.0	2.146	3.074	8.3	20.1
4 11	10 54.17	- 1 47.3	2.158	3.022	11.4	21.6	4 11	10 55.93	+ 3 12.8	2.225	3.082	11.4	20.3
<b>384092</b>	2008 <i>VW</i> <sub>76</sub>		3 9.2 175°66	3°0/ 5.8	17		<b>288477</b>	2004 <i>FJ</i> <sub>15</sub>		3 9.2 320°75	6°6/14.6	18	
2 1	11 42.14	+11 4.5	2.311	3.123	11.9	21.5	2 1	11 44.89	-13 14.2	2.119	2.835	15.9	19.9
2 11	11 37.94	+11 58.7	2.230	3.124	9.1	21.3	2 11	11 40.51	-14 19.1	2.017	2.826	13.6	19.7
2 21	11 31.88	+12 59.2	2.174	3.125	5.9	21.1	2 21	11 33.87	-15 6.8	1.934	2.818	10.9	19.5
3 2	11 24.47	+14 0.3	2.146	3.126	3.3	21.0	3 2	11 25.45	-15 34.5	1.876	2.809	8.3	19.3
3 12	11 16.46	+14 55.8	2.148	3.127	3.8	21.0	3 12	11 16.08	-15 41.8	1.844	2.801	6.7	19.2
3 22	11 8.68	+15 40.3	2.178	3.127	6.7	21.2	3 22	11 6.72	-15 30.2	1.839	2.793	7.3	19.2
4 1	11 1.92	+16 10.2	2.236	3.127	9.8	21.4	4 1	10 58.39	-15 4.4	1.861	2.785	9.6	19.3
4 11	10 56.79	+16 23.8	2.317	3.126	12.6	21.5	4 11	10 51.94	-14 30.7	1.907	2.778	12.4	19.5
<b>400196</b>	2006 <i>YL</i> <sub>13</sub>		3 9.2 70°00	7°5/14.9	18		<b>266908</b>	2009 <i>WX</i> <sub>209</sub>		3 9.2 28°06	0°7/10.2	17	
2 1	11 59.66	-14 17.1	1.835	2.527	18.7	21.0	2 1	11 36.71	- 0 41.8	3.040	3.813	10.3	21.2
2 11	11 51.58	-15 41.2	1.777	2.570	15.8	20.9	2 11	11 33.35	- 0 20.8	2.948	3.816	8.0	21.0
2 21	11 40.83	-16 42.5	1.741	2.613	12.5	20.7	2 21	11 28.68	+ 0 10.4	2.880	3.818	5.4	20.8
3 2	11 28.24	-17 17.8	1.729	2.656	9.4	20.6	3 2	11 23.08	+ 0 49.4	2.841	3.821	2.6	20.7
3 12	11 15.04	-17 26.8	1.746	2.697	7.6	20.6	3 12	11 17.06	+ 1 33.1	2.831	3.823	0.9	20.5
3 22	11 2.52	-17 13.2	1.791	2.738	8.1	20.7	3 22	11 11.18	+ 2 17.7	2.851	3.826	3.6	20.7
4 1	10 51.84	-16 43.6	1.865	2.777	10.3	20.9	4 1	11 5.98	+ 2 59.4	2.901	3.829	6.4	20.9
4 11	10 43.73	-16 6.4	1.963	2.817	12.8	21.2	4 11	11 1.91	+ 3 35.0	2.976	3.832	8.9	21.1
<b>243427</b>	2009 <i>CS</i> <sub>56</sub>		3 9.2 226°98	1°9/ 6.6	18		<b>284342</b>	2006 <i>RD</i> <sub>56</sub>		3 9.2 62°09	1°7/11.2	17	
2 1	11 37.99	+ 5 5.9	2.464	3.266	11.6	20.5	2 1	11 38.19	- 4 36.4	2.292	3.060	13.4	21.4
2 11	11 34.71	+ 6 34.2	2.372	3.262	8.8	20.3	2 11	11 34.92	- 4 3.2	2.205	3.067	10.6	21.2
2 21	11 29.76	+ 8 14.9	2.307	3.258	5.6	20.1	2 21	11 29.92	- 3 13.3	2.141	3.073	7.4	21.0
3 2	11 23.58	+10 2.4	2.271	3.255	2.5	19.9	3 2	11 23.66	- 2 9.2	2.103	3.079	3.9	20.8
3 12	11 16.82	+11 49.1	2.265	3.250	2.7	19.9	3 12	11 16.85	- 0 55.9	2.095	3.085	1.7	20.7
3 22	11 10.18	+13 28.0	2.291	3.246	5.9	20.1	3 22	11 10.24	+ 0 20.5	2.115	3.092	4.4	20.9
4 1	11 4.38	+14 53.0	2.344	3.242	9.1	20.3	4 1	11 4.57	+ 1 33.8	2.164	3.098	7.9	21.1
4 11	10 0.01	+16 0.2	2.423	3.237	12.0	20.5	4 11	11 0.42	+ 2 38.3	2.239	3.105	11.0	21.3
<b>495914</b>	2005 <i>UE</i> <sub>224</sub>		3 9.2 228°59	1°9/11.0	17		<b>499437</b>	2010 <i>CB</i> <sub>216</sub>		3 9.2 29°32	3°6/12.5	18	
2 1	11 42.79	- 3 19.9	2.036	2.809	14.7	22.3	2 1	11 39.12	- 7 21.1	1.545	2.327	18.2	20.5
2 11	11 38.79	- 3 9.2	1.938	2.802	11.7	22.1	2 11	11 36.43	- 7 15.9	1.474	2.338	14.7	20.3
2 21	11 32.65	- 2 41.9	1.862	2.796	8.2	21.9	2 21	11 31.28	- 6 46.4	1.421	2.350	10.7	20.1
3 2	11 24.88	- 1 59.6	1.813	2.789	4.3	21.6	3 2	11 24.33	- 5 54.2	1.392	2.362	6.4	19.9
3 12	11 16.30	- 1 6.8	1.791	2.782	2.0	21.4	3 12	11 16.62	- 4 44.9	1.389	2.376	3.6	19.7
3 22	11 7.85	- 0 9.2	1.798	2.774	5.1	21.6	3 22	11 9.27	- 3 26.8	1.411	2.389	5.9	19.9
4 1	11 0.47	+ 0 46.7	1.833	2.766	9.1	21.8	4 1	11 3.36	- 2 9.1	1.460	2.404	10.0	20.2
4 11	10 54.93	+ 1 35.0	1.893	2.758	12.7	22.0	4 11	10 59.63	- 1 0.3	1.531	2.419	13.9	20.4
<b>111418</b>	2001 <i>XY</i> <sub>192</sub>		3 9.2 110°90	0°4/ 9.6	18		<b>114652</b>	2003 <i>EU</i> <sub>53</sub>		3 9.2 299°73	2°3/10.9	18	
2 1	11 44.18	+ 0 15.0	2.153	2.934	13.7	20.4	2 1	11 41.84	- 2 54.5	1.394	2.197	18.8	19.5
2 11	11 39.48	+ 0 44.4	2.080	2.953	10.7	20.2	2 11	11 39.18	- 2 52.5	1.297	2.179	15.1	19.2
2 21	11 32.84	+ 1 27.3	2.031	2.972	7.1	20.0	2 21	11 33.57	- 2 27.8	1.219	2.161	10.7	18.9
3 2	11 24.86	+ 2 19.9	2.008	2.990	3.1	19.8	3 2	11 25.51	- 1 41.5	1.164	2.143	5.6	18.5
3 12	11 16.35	+ 3 16.9	2.016	3.008	1.1	19.7	3 12	11 16.09	- 0 39.0	1.134	2.125	2.4	18.3
3 22	11 8.19	+ 4 12.5	2.052	3.025	4.9	20.0	3 22	11 6.67	+ 0 31.2	1.129	2.108	6.9	18.5
4 1	11 1.16	+ 5 1.3	2.118	3.042	8.6	20.2	4 1	10 58.72	+ 1 39.0	1.149	2.091	12.3	18.7
4 11	10 55.89	+ 5 39.5	2.208	3.058	11.7	20.5	4 11	10 53.39	+ 2 35.1	1.190	2.074	17.2	19.0
<b>141827</b>	2002 <i>NO</i> <sub>54</sub>		3 9.2 263°54	1°3/ 8.1	17		<b>282659</b>	2005 <i>UD</i> <sub>352</sub>		3 9.2 79°39	2°8/11.1	18	
2 1	11 44.37	+ 4 57.3	1.740	2.549	15.4	20.7	2 1	11 47.45	- 3 8.1	1.381	2.174	19.4	20.6
2 11	11 40.46	+ 5 29.5	1.644	2.535	11.9	20.4	2 11	11 43.13	- 3 20.2	1.311	2.186	15.5	20.3
2 21	11 34.00	+ 6 15.6	1.569	2.520	7.8	20.1	2 21	11 35.83	- 3 11.3	1.261	2.198	10.8	20.1
3 2	11 25.54	+ 7 10.6	1.520	2.505	3.3	19.8	3 2	11 26.32	- 2 43.1	1.233	2.210	5.8	19.8
3 12	11 16.03	+ 8 7.6	1.499	2.490	2.3	19.7	3 12	11 15.85	- 2 0.9	1.232	2.222	2.8	19.7
3 22	11 6.63	+ 8 59.0	1.506	2.475	7.0	20.0	3 22	11 5.87	- 1 12.2	1.257	2.234	6.6	19.9
4 1	10 58.50	+ 9 38.4	1.539	2.459	11.5	20.2	4 1	10 57.68	- 0 25.5	1.307	2.247	11.4	20.2
4 11	10 52.56	+10 1.4	1.595	2.443	15.5	20.4	4 11	10 52.21	+ 0 12.1	1.379	2.258	15.7	20.5
<b>425913</b>	2011 <i>FE</i> <sub>141</sub>		3 9.2 0°66	3°5/ 6.2	18		<b>212069</b>	2005 <i>EV</i> <sub>49</sub>		3 9.2 66°14	2°6/ 7.3	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>406529</b>	2007 VY <sub>274</sub>		3 9.2 228°29	2°8/ 6.5	17		<b>370801</b>	2004 TF <sub>149</sub>		3 9.2 78°14	1°8/11.0	18	
2 1	11 43.49	+ 7 33.8	1.783	2.598	14.7	21.5	2 1	11 42.06	- 3 35.6	1.926	2.703	15.3	21.0
2 11	11 39.66	+ 8 39.5	1.695	2.591	11.3	21.2	2 11	11 38.16	- 3 16.2	1.851	2.718	12.1	20.8
2 21	11 33.41	+ 9 58.4	1.630	2.583	7.3	21.0	2 21	11 32.16	- 2 39.0	1.798	2.733	8.4	20.6
3 2	11 25.29	+11 23.4	1.592	2.575	3.5	20.7	3 2	11 24.67	- 1 47.0	1.771	2.748	4.3	20.4
3 12	11 16.26	+12 45.7	1.582	2.567	3.8	20.7	3 12	11 16.57	- 0 45.5	1.772	2.763	1.9	20.3
3 22	11 7.40	+13 56.6	1.601	2.558	7.8	20.9	3 22	11 8.80	+ 0 18.9	1.802	2.778	5.1	20.5
4 1	10 59.82	+14 49.5	1.645	2.549	12.0	21.1	4 1	11 2.25	+ 1 19.6	1.859	2.793	8.9	20.8
4 11	10 54.36	+15 21.2	1.711	2.539	15.6	21.3	4 11	10 57.57	+ 2 10.8	1.940	2.808	12.3	21.0
<b>148976</b>	2001 XN <sub>264</sub>		3 9.2 248°32	2°3/ 6.9	17		<b>19518</b>	Moulding		3 9.2 94°04	4°0/12.4	18	
2 1	11 42.88	+ 7 47.9	1.883	2.697	14.1	20.2	2 1	11 45.56	- 7 14.6	1.481	2.255	19.2	17.9
2 11	11 39.02	+ 8 35.3	1.796	2.691	10.8	20.0	2 11	11 41.55	- 7 21.6	1.407	2.267	15.6	17.7
2 21	11 32.88	+ 9 33.4	1.733	2.686	7.0	19.8	2 21	11 34.76	- 7 4.2	1.352	2.278	11.3	17.4
3 2	11 25.03	+10 36.4	1.696	2.680	3.2	19.5	3 2	11 25.88	- 6 23.4	1.321	2.290	6.9	17.2
3 12	11 16.37	+11 36.9	1.688	2.674	3.3	19.5	3 12	11 16.09	- 5 23.8	1.315	2.301	4.0	17.1
3 22	11 7.91	+12 27.8	1.708	2.668	7.1	19.7	3 22	11 6.70	- 4 13.7	1.336	2.312	6.5	17.2
4 1	11 0.67	+13 4.0	1.754	2.662	11.1	19.9	4 1	10 58.95	- 3 2.4	1.382	2.323	10.8	17.5
4 11	10 55.41	+13 22.4	1.822	2.656	14.5	20.1	4 11	10 53.71	- 1 58.8	1.451	2.334	14.8	17.8
<b>380016</b>	2013 PX <sub>60</sub>		3 9.2 158°64	0°9/ 8.1	16		<b>192111</b>	2006 CT <sub>44</sub>		3 9.2 170°32	0°8/ 8.4	17	
2 1	11 42.95	+ 4 49.3	2.535	3.324	11.6	21.6	2 1	11 44.15	+ 4 45.4	2.255	3.049	12.8	21.4
2 11	11 38.37	+ 5 29.9	2.450	3.332	8.9	21.5	2 11	11 39.53	+ 5 11.1	2.169	3.051	9.8	21.2
2 21	11 32.08	+ 6 19.8	2.391	3.338	5.8	21.3	2 21	11 32.98	+ 5 46.7	2.106	3.053	6.4	21.0
3 2	11 24.59	+ 7 15.0	2.360	3.345	2.4	21.1	3 2	11 25.02	+ 6 28.2	2.071	3.055	2.7	20.8
3 12	11 16.57	+ 8 10.4	2.360	3.350	1.7	21.0	3 12	11 16.44	+ 7 10.7	2.066	3.057	1.6	20.7
3 22	11 8.76	+ 9 1.0	2.390	3.355	5.0	21.2	3 22	11 8.07	+ 7 49.1	2.090	3.058	5.4	21.0
4 1	11 1.88	+ 9 42.7	2.449	3.359	8.2	21.4	4 1	11 0.75	+ 8 19.0	2.142	3.059	8.9	21.2
4 11	10 56.49	+10 12.6	2.533	3.363	11.0	21.6	4 11	10 55.12	+ 8 37.6	2.219	3.059	12.0	21.4
<b>73297</b>	2002 JP <sub>68</sub>		3 9.2 284°61	6°0/ 3.9	18		<b>403595</b>	2010 QN <sub>2</sub>		3 9.2 122°75	0°0/ 9.0	18	
2 1	11 45.19	+14 59.7	1.598	2.430	15.4	19.3	2 1	11 48.12	+ 2 32.4	1.996	2.781	14.5	21.3
2 11	11 41.58	+16 15.0	1.500	2.403	12.0	19.0	2 11	11 42.69	+ 2 48.7	1.922	2.798	11.2	21.1
2 21	11 35.06	+17 39.5	1.425	2.376	8.5	18.7	2 21	11 35.06	+ 3 16.8	1.871	2.814	7.4	20.9
3 2	11 26.15	+19 3.7	1.375	2.348	6.0	18.5	3 2	11 25.90	+ 3 53.3	1.847	2.830	3.2	20.7
3 12	11 15.89	+20 16.1	1.352	2.320	7.3	18.5	3 12	11 16.12	+ 4 32.7	1.853	2.845	1.2	20.6
3 22	11 5.61	+21 7.2	1.355	2.292	11.1	18.7	3 22	11 6.72	+ 5 9.8	1.888	2.860	5.5	20.9
4 1	10 56.72	+21 30.8	1.382	2.263	15.3	18.8	4 1	10 58.64	+ 5 39.7	1.952	2.874	9.3	21.2
4 11	10 50.34	+21 25.8	1.427	2.234	19.1	19.0	4 11	10 52.55	+ 5 59.0	2.040	2.887	12.7	21.4
<b>229699</b>	2007 EV <sub>25</sub>		3 9.2 316°59	4°4/ 5.8	17		<b>84808</b>	2002 YZ <sub>15</sub>		3 9.2 114°65	4°9/ 3.5	18	
2 1	11 43.31	+12 44.9	1.567	2.400	15.6	19.5	2 1	11 42.87	+17 57.3	2.317	3.137	11.6	20.0
2 11	11 40.01	+13 24.8	1.474	2.379	12.1	19.3	2 11	11 38.51	+18 59.9	2.250	3.145	9.0	19.9
2 21	11 33.91	+14 12.3	1.404	2.358	8.1	19.0	2 21	11 32.26	+20 3.5	2.208	3.152	6.4	19.7
3 2	11 25.60	+15 0.2	1.358	2.338	4.8	18.7	3 2	11 24.69	+21 1.3	2.194	3.158	4.9	19.6
3 12	11 16.13	+15 39.5	1.338	2.318	5.4	18.7	3 12	11 16.58	+21 47.1	2.208	3.165	5.8	19.7
3 22	11 6.77	+16 2.7	1.344	2.298	9.4	18.9	3 22	11 8.78	+22 16.3	2.250	3.172	8.1	19.8
4 1	10 58.85	+16 5.2	1.374	2.279	13.7	19.1	4 1	11 2.06	+22 26.9	2.318	3.178	10.8	20.0
4 11	10 53.36	+15 45.4	1.425	2.261	17.7	19.3	4 11	10 57.04	+22 18.9	2.409	3.185	13.1	20.2
<b>299913</b>	2006 SZ <sub>400</sub>		3 9.2 340°49	5°9/15.5	17		<b>162752</b>	2000 WF <sub>48</sub>		3 9.2 101°80	2°4/ 7.0	18	
2 1	11 37.29	-14 27.5	1.984	2.713	16.4	20.0	2 1	11 46.19	+ 6 42.4	1.717	2.528	15.4	20.0
2 11	11 34.74	-14 43.3	1.885	2.704	14.0	19.8	2 11	11 41.49	+ 7 45.0	1.657	2.550	11.7	19.8
2 21	11 30.11	-14 35.6	1.805	2.697	11.1	19.6	2 21	11 34.39	+ 8 59.2	1.619	2.571	7.5	19.6
3 2	11 23.87	-14 3.2	1.748	2.689	8.2	19.4	3 2	11 25.62	+10 17.7	1.607	2.591	3.4	19.4
3 12	11 16.83	-13 7.8	1.716	2.683	6.1	19.3	3 12	11 16.24	+11 31.8	1.625	2.611	3.3	19.5
3 22	11 9.90	-11 54.5	1.711	2.677	6.6	19.3	3 22	11 7.35	+12 33.9	1.670	2.630	7.3	19.7
4 1	11 4.02	-10 30.5	1.732	2.671	9.1	19.4	4 1	10 59.96	+13 18.6	1.742	2.649	11.2	20.0
4 11	10 59.92	- 9 4.7	1.778	2.666	12.2	19.6	4 11	10 54.76	+13 43.8	1.837	2.668	14.5	20.3
<b>105589</b>	2000 RV <sub>85</sub>		3 9.2 192°89	1°6/ 7.7	17		<b>497277</b>	2005 QC <sub>42</sub>		3 9.2 189°60	0°0/ 8.9	17	
2 1	11 45.92	+ 7 36.2	2.224	3.022	12.8	20.8	2 1	11 43.14	+ 1 8.7	2.625	3.400	11.7	23.1
2 11	11 40.95	+ 8 0.8	2.135	3.021	9.8	20.6	2 11	11 38.53	+ 1 50.9	2.528	3.399	9.1	22.9
2 21	11 33.94	+ 8 33.1	2.070	3.019	6.4	20.4	2 21	11 32.24	+ 2 45.1	2.455	3.396	6.0	22.7
3 2	11 25.44	+ 9 9.1	2.033	3.017	2.8	20.1	3 2	11 24.70	+ 3 47.9	2.411	3.394	2.6	22.4
3 12	11 16.25	+ 9 43.3	2.026	3.014	2.4	20.1	3 12	11 16.57	+ 4 54.5	2.397	3.390	1.0	22.3
3 22	11 7.28	+10 11.1	2.048	3.011	5.9	20.3	3 22	11 8.57	+ 5 59.4	2.415	3.385	4.6	22.6
4 1	10 59.40	+10 28.7	2.098	3.008	9.5	20.5	4 1	11 1.43	+ 6 57.8	2.463	3.380	7.9	22.8
4 11	10 53.29	+10 33.7	2.173	3.004	12.6	20.7	4 11	10 55.72	+ 7 45.6	2.536	3.374	10.8	22.9
<b>200723</b>	2001 VO <sub>9</sub>		3 9.2 53°75	3°0/ 7.1	18		<b>9895</b>	1996 BR <sub>3</sub>		3 9.2 169°17	1°3/ 8.1	18	
2 1	11 46.27	+ 7 57.6	1.236	2.071	18.8	20.7	2 1	11 48.32	+ 5 29.8	1.825	2.624	15.1	18.0
2 11	11 42.35	+ 8 41.3	1.183	2.088	14.3	20.5	2 11	11 43.20	+ 6 1.9	1.743	2.629	11.6	17.8
2 21	11 35.31	+ 9 37.6	1.150	2.106	9.2	20.2	2 21	11 35.62	+ 6 45.8	1.684	2.632	7.6	17.6
3 2	11 26.07	+10 38.2	1.140	2.125	4.2	20.0	3 2	11 26.21	+ 7 36.4	1.651	2.635	3.2	17.3
3 12	11 16.04	+11 32.5	1.156	2.143	4.1	20.0	3 12	11 15.98	+ 8 26.8	1.648	2.638	2.3	17.2
3 22	11 6.73	+12 12.1	1.197	2.163	8.8	20.4	3 22	11 6.06	+ 9 10.5	1.673	2.639	6.6	17.5
4 1	10 59.43	+12 31.9	1.262	2.182	13.5	20.7	4 1	10 57.53	+ 9 42.2	1.725	2.640	10.8	17.8
4 11	10 54.96	+12 30.3	1.347	2.201	17.5	21.0	4 11	10 51.18	+ 9 58.8	1.801	2.640	14.4	18.0
<b>50971</b>	2000 GP <sub>88</sub>		3 9.2 198°66	4°6/ 3.6	18 R		<b>456315</b>	2006 SG <sub>246</sub>		3 9.2 89°64	0°8/ 8.5	18	
2 1	11 43.23	+17 55.8	2.510	3.326	11.0	19.0							

EPHEMERIDES

3 9.2

3 9.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>203529</b>	2002 <i>BL</i> <sub>22</sub>		3 9.2 55°86	0°8/ 9.8 18			<b>270377</b>	2002 <i>AP</i> <sub>45</sub>		3 9.2 52°42	1°0/ 8.3 18		
2 1	11 43.44	— 0 32.1	1.355	2.166	18.8	20.2	2 1	11 41.97	+ 3 10.1	1.579	2.393	16.4	20.9
2 11	11 40.06	— 0 7.3	1.289	2.178	14.7	20.0	2 11	11 38.46	+ 3 57.3	1.518	2.412	12.6	20.7
2 21	11 33.83	+ 0 38.6	1.242	2.189	9.9	19.7	2 21	11 32.52	+ 4 59.9	1.479	2.431	8.1	20.4
3 2	11 25.49	+ 1 41.1	1.219	2.202	4.5	19.4	3 2	11 24.88	+ 6 11.9	1.465	2.450	3.3	20.2
3 12	11 16.28	+ 2 51.9	1.221	2.214	1.5	19.3	3 12	11 16.59	+ 7 24.6	1.478	2.469	2.1	20.2
3 22	11 7.55	+ 4 1.2	1.250	2.227	6.8	19.6	3 22	11 8.77	+ 8 29.7	1.518	2.489	6.7	20.5
4 1	11 0.54	+ 5 0.4	1.304	2.240	11.7	19.9	4 1	11 2.44	+ 9 20.8	1.585	2.509	10.9	20.8
4 11	10 56.11	+ 5 43.2	1.379	2.253	16.0	20.2	4 11	10 58.30	+ 9 53.9	1.673	2.529	14.6	21.1
<b>467671</b>	2008 <i>UV</i> <sub>121</sub>		3 9.2 207°30	2°6/12.3 17			<b>187455</b>	2005 <i>WD</i> <sub>193</sub>		3 9.2 169°94	0°0/ 9.1 18		
2 1	11 42.66	— 6 40.6	2.650	3.390	12.4	22.3	2 1	11 41.43	— 0 13.8	2.280	3.061	13.1	20.9
2 11	11 38.22	— 6 37.6	2.544	3.384	10.1	22.1	2 11	11 37.47	+ 0 42.0	2.191	3.065	10.1	20.7
2 21	11 32.07	— 6 20.1	2.461	3.378	7.4	21.9	2 21	11 31.66	+ 1 53.2	2.125	3.068	6.7	20.5
3 2	11 24.65	— 5 48.9	2.405	3.371	4.5	21.7	3 2	11 24.49	+ 3 15.4	2.088	3.070	2.9	20.2
3 12	11 16.60	— 5 6.7	2.378	3.363	2.7	21.6	3 12	11 16.71	+ 4 42.6	2.080	3.072	1.1	20.1
3 22	11 8.63	— 4 17.6	2.382	3.355	4.3	21.7	3 22	11 9.12	+ 6 7.6	2.103	3.074	5.0	20.4
4 1	11 1.48	+ 3 26.4	2.414	3.346	7.3	21.9	4 1	11 2.50	+ 7 24.2	2.154	3.075	8.6	20.6
4 11	10 55.74	— 2 38.0	2.474	3.337	10.2	22.0	4 11	10 57.49	+ 8 27.5	2.231	3.075	11.8	20.8
<b>308022</b>	2004 <i>RU</i> <sub>232</sub>		3 9.2 207°76	0°7/ 9.9 18			<b>268411</b>	2005 <i>UP</i> <sub>308</sub>		3 9.2 142°97	0°4/ 9.6 17		
2 1	11 45.15	— 1 28.1	2.066	2.840	14.4	21.7	2 1	11 43.34	+ 0 39.1	2.043	2.830	14.2	21.8
2 11	11 40.63	— 0 50.9	1.965	2.834	11.4	21.4	2 11	11 39.11	+ 1 3.7	1.959	2.836	11.0	21.6
2 21	11 33.92	+ 0 3.6	1.887	2.826	7.7	21.2	2 21	11 32.81	+ 1 42.3	1.898	2.841	7.4	21.4
3 2	11 25.52	+ 1 12.2	1.837	2.817	3.6	20.9	3 2	11 25.00	+ 2 31.5	1.864	2.846	3.3	21.1
3 12	11 16.26	+ 2 29.1	1.815	2.808	1.2	20.7	3 12	11 16.52	+ 3 25.9	1.859	2.851	1.1	21.0
3 22	11 7.11	+ 3 47.0	1.824	2.798	5.4	21.0	3 22	11 8.28	+ 4 19.4	1.882	2.856	5.2	21.3
4 1	10 59.05	+ 4 58.9	1.861	2.786	9.5	21.2	4 1	11 1.19	+ 5 6.4	1.933	2.860	9.1	21.5
4 11	10 52.86	+ 5 58.8	1.923	2.774	13.2	21.4	4 11	10 55.92	+ 5 42.5	2.009	2.864	12.5	21.7
<b>15443</b>	1998 <i>WM</i> <sub>19</sub>		3 9.2 61°63	1°6/10.6 18			<b>270090</b>	2001 <i>QE</i> <sub>156</sub>		3 9.2 172°27	1°9/11.2 16		
2 1	11 44.07	— 2 57.7	1.550	2.341	17.7	18.2	2 1	11 45.23	— 3 42.4	2.491	3.244	12.8	22.6
2 11	11 40.03	— 2 33.1	1.492	2.368	13.9	18.0	2 11	11 40.21	— 3 34.3	2.396	3.248	10.2	22.4
2 21	11 33.51	— 1 47.9	1.455	2.394	9.5	17.8	2 21	11 33.38	— 3 12.5	2.325	3.252	7.2	22.2
3 2	11 25.27	— 0 46.3	1.441	2.421	4.7	17.6	3 2	11 25.21	— 2 38.7	2.281	3.254	3.9	22.0
3 12	11 16.41	+ 0 24.4	1.455	2.447	1.8	17.5	3 12	11 16.44	— 1 56.3	2.267	3.257	1.9	21.9
3 22	11 8.11	+ 1 35.8	1.497	2.474	5.8	17.8	3 22	11 7.83	— 1 9.8	2.284	3.258	4.4	22.0
4 1	11 1.39	+ 2 39.9	1.564	2.500	10.2	18.1	4 1	11 0.17	— 0 24.0	2.330	3.258	7.7	22.2
4 11	10 56.94	+ 3 30.7	1.655	2.526	13.9	18.4	4 11	10 54.07	+ 0 16.5	2.402	3.258	10.7	22.4
<b>322720</b>	2000 <i>RP</i> <sub>8</sub>		3 9.2 233°65	4°3/14.9 18			<b>59318</b>	1999 <i>CB</i> <sub>90</sub>		3 9.2 339°71	7°7/ 3.6 18		
2 1	11 41.36	— 15 34.9	2.496	3.192	14.2	20.7	2 1	11 44.05	+ 17 22.9	1.223	2.075	17.9	17.7
2 11	11 37.46	— 14 55.1	2.375	3.177	12.0	20.5	2 11	11 41.17	+ 18 38.1	1.156	2.068	14.0	17.4
2 21	11 31.71	— 13 51.0	2.275	3.162	9.4	20.3	2 21	11 34.93	+ 19 58.1	1.109	2.061	10.1	17.1
3 2	11 24.54	— 12 22.4	2.201	3.146	6.5	20.1	3 2	11 26.10	+ 21 10.6	1.085	2.055	7.7	17.0
3 12	11 16.65	— 10 32.8	2.157	3.129	4.5	19.9	3 12	11 16.08	+ 22 2.6	1.085	2.050	9.1	17.0
3 22	11 8.80	— 8 28.3	2.143	3.112	5.1	19.9	3 22	11 6.50	+ 22 25.0	1.108	2.046	12.9	17.2
4 1	11 1.80	— 6 17.3	2.159	3.094	7.9	20.1	4 1	10 58.91	+ 22 14.8	1.152	2.042	17.0	17.5
4 11	10 56.32	— 4 8.9	2.205	3.075	10.9	20.2	4 11	10 54.34	+ 21 34.1	1.214	2.039	20.8	17.7
<b>495316</b>	2014 <i>GD</i> <sub>45</sub>		3 9.2 314°35	5°8/ 6.0 17 C			<b>419894</b>	2011 <i>AU</i> <sub>54</sub>		3 9.2 44°58	0°8/ 8.5 16		
2 1	11 48.93	+ 12 1.5	1.124	1.968	19.7	23.6	2 1	11 43.71	+ 4 22.9	1.641	2.453	16.0	21.8
2 11	11 46.62	+ 12 42.3	0.998	1.908	15.9	23.2	2 11	11 39.84	+ 4 45.5	1.568	2.460	12.3	21.6
2 21	11 40.05	+ 13 39.7	0.891	1.848	11.1	22.7	2 21	11 33.49	+ 5 21.2	1.517	2.468	8.0	21.3
3 2	11 29.10	+ 14 46.4	0.804	1.786	6.5	22.2	3 2	11 25.33	+ 6 5.2	1.491	2.476	3.3	21.1
3 12	11 14.54	+ 15 48.8	0.741	1.723	7.4	22.0	3 12	11 16.41	+ 6 50.6	1.493	2.485	1.9	21.0
3 22	10 58.16	+ 16 30.7	0.700	1.661	14.1	22.0	3 22	11 7.86	+ 7 30.8	1.522	2.493	6.5	21.3
4 1	10 42.59	+ 16 38.4	0.679	1.598	21.8	22.1	4 1	11 0.77	+ 8 0.0	1.577	2.502	10.9	21.6
4 11	10 30.40	+ 16 5.9	0.673	1.535	29.2	22.2	4 11	10 55.89	+ 8 14.8	1.654	2.511	14.6	21.8
<b>90956</b>	1997 <i>WB</i> <sub>3</sub>		3 9.2 90°03	6°0/ 4.1 18			<b>387185</b>	2012 <i>TD</i> <sub>278</sub>		3 9.2 43°64	0°1/ 9.1 17		
2 1	11 49.43	+ 16 5.7	1.565	2.392	15.9	19.9	2 1	11 42.58	+ 3 18.4	1.988	2.787	14.1	20.7
2 11	11 44.15	+ 17 28.6	1.519	2.418	12.2	19.8	2 11	11 38.47	+ 3 29.8	1.917	2.802	10.8	20.5
2 21	11 36.19	+ 18 53.9	1.496	2.444	8.5	19.6	2 21	11 32.33	+ 3 52.2	1.870	2.817	7.1	20.3
3 2	11 26.39	+ 20 11.2	1.499	2.469	6.1	19.5	3 2	11 24.77	+ 4 22.1	1.848	2.832	3.0	20.1
3 12	11 16.01	+ 21 10.6	1.529	2.493	7.1	19.6	3 12	11 16.64	+ 4 54.6	1.855	2.847	1.2	20.0
3 22	11 6.34	+ 21 46.1	1.586	2.517	10.2	19.9	3 22	11 8.86	+ 5 24.6	1.890	2.863	5.3	20.3
4 1	10 58.48	+ 21 55.8	1.667	2.540	13.6	20.1	4 1	11 2.28	+ 5 47.8	1.953	2.879	9.1	20.6
4 11	10 53.13	+ 21 41.5	1.769	2.563	16.5	20.4	4 11	10 57.54	+ 6 0.8	2.040	2.896	12.3	20.8
<b>91454</b>	1999 <i>RK</i> <sub>49</sub>		3 9.2 235°13	1°6/10.6 17			<b>147200</b>	2002 <i>VS</i> <sub>110</sub>		3 9.2 125°35	4°9/14.2 18		
2 1	11 46.13	— 1 6.5	2.286	3.054	13.4	20.1	2 1	11 48.84	— 12 5.2	2.387	3.092	14.6	20.0
2 11	11 41.19	— 1 14.3	2.180	3.043	10.7	19.9	2 11	11 43.00	— 12 35.0	2.304	3.112	12.1	19.8
2 21	11 34.20	— 1 10.1	2.098	3.031	7.4	19.7	2 21	11 35.19	— 12 47.1	2.243	3.132	9.4	19.7
3 2	11 25.63	— 0 55.3	2.042	3.019	3.8	19.4	3 2	11 25.98	— 12 40.9	2.208	3.151	6.7	19.5
3 12	11 16.24	— 0 32.8	2.016	3.007	1.7	19.2	3 12	11 16.16	— 12 17.9	2.201	3.169	4.9	19.4
3 22	11 6.92	— 0 6.6	2.019	2.994	4.8	19.4	3 22	11 6.62	— 11 41.9	2.224	3.186	5.7	19.5
4 1	10 58.58	+ 0 18.7	2.052	2.981	8.5	19.6	4 1	10 58.19	— 10 57.8	2.277	3.202	8.0	19.7
4 11	10 51.95	+ 0 38.9	2.110	2.967	11.9	19.8	4 11	10 51.51	— 10 11.7	2.355			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>87446</b>	2000 QO <sub>113</sub>		3 9.2 174°56	0°3/ 9.6 17			<b>437580</b>	2014 AQ <sub>40</sub>		3 9.2 319°43	0°2/ 9.0 16		
2 1	11 43.10	+ 0 49.9	2.082	2.869	13.9	20.6	2 1	11 43.66	+ 4 15.0	2.144	2.940	13.3	21.8
2 11	11 38.94	+ 1 15.1	1.994	2.871	10.9	20.4	2 11	11 39.34	+ 4 19.4	2.053	2.935	10.3	21.6
2 21	11 32.72	+ 1 54.2	1.929	2.872	7.2	20.1	2 21	11 32.99	+ 4 33.3	1.984	2.931	6.8	21.3
3 2	11 24.98	+ 2 43.8	1.890	2.873	3.2	19.9	3 2	11 25.13	+ 4 53.8	1.943	2.927	2.9	21.1
3 12	11 16.55	+ 3 38.5	1.881	2.873	1.1	19.7	3 12	11 16.56	+ 5 16.5	1.930	2.922	1.3	20.9
3 22	11 8.32	+ 4 32.4	1.900	2.874	5.2	20.0	3 22	11 8.17	+ 5 37.0	1.946	2.918	5.3	21.2
4 1	11 1.19	+ 5 19.8	1.947	2.874	9.1	20.2	4 1	11 0.85	+ 5 51.4	1.990	2.915	9.1	21.4
4 11	10 55.85	+ 5 56.2	2.019	2.873	12.5	20.5	4 11	10 55.29	+ 5 56.6	2.059	2.911	12.4	21.6
<b>128962</b>	2004 TZ <sub>145</sub>		3 9.2 228°88	0°2/ 9.0 17			<b>68712</b>	2002 CO <sub>249</sub>		3 9.2 261°45	1°9/ 10.9 18		
2 1	11 43.38	+ 2 55.1	2.068	2.862	13.8	20.8	2 1	11 43.13	- 3 22.6	1.712	2.495	16.6	19.8
2 11	11 39.21	+ 3 16.1	1.976	2.858	10.7	20.5	2 11	11 39.65	- 3 5.2	1.609	2.480	13.3	19.6
2 21	11 32.95	+ 3 49.2	1.907	2.853	7.1	20.3	2 21	11 33.62	- 2 26.9	1.528	2.465	9.3	19.3
3 2	11 25.11	+ 4 31.0	1.864	2.848	3.0	20.0	3 2	11 25.54	- 1 29.8	1.471	2.449	4.9	19.0
3 12	11 16.51	+ 5 16.2	1.851	2.843	1.3	19.9	3 12	11 16.37	- 0 19.0	1.442	2.433	2.0	18.8
3 22	11 8.09	+ 5 59.1	1.866	2.838	5.5	20.2	3 22	11 7.22	+ 0 57.6	1.440	2.417	6.0	19.0
4 1	11 0.76	+ 6 34.6	1.909	2.833	9.4	20.4	4 1	10 59.31	+ 2 11.2	1.464	2.400	10.7	19.2
4 11	10 55.25	+ 6 58.9	1.976	2.827	12.9	20.6	4 11	10 53.57	+ 3 14.1	1.512	2.383	15.0	19.4
<b>132085</b>	2002 CV <sub>169</sub>		3 9.2 24°47	3°5/ 6.8 18			<b>109615</b>	2001 QT <sub>290</sub>		3 9.2 234°45	0°5/ 9.8 17		
2 1	11 42.20	+ 8 29.9	1.122	1.971	19.4	19.1	2 1	11 41.14	+ 0 24.0	2.505	3.284	12.1	21.3
2 11	11 39.62	+ 9 16.6	1.066	1.979	14.8	18.8	2 11	11 37.17	+ 0 47.2	2.403	3.275	9.5	21.1
2 21	11 33.79	+ 10 17.2	1.029	1.988	9.6	18.6	2 21	11 31.47	+ 1 22.6	2.325	3.265	6.4	20.9
3 2	11 25.57	+ 11 22.3	1.014	1.999	4.6	18.3	3 2	11 24.47	+ 2 7.4	2.274	3.256	2.9	20.6
3 12	11 16.39	+ 12 20.5	1.024	2.010	4.7	18.4	3 12	11 16.83	+ 2 57.4	2.253	3.246	0.9	20.5
3 22	11 7.83	+ 13 2.0	1.057	2.023	9.6	18.7	3 22	11 9.29	+ 3 47.7	2.262	3.235	4.5	20.7
4 1	11 1.31	+ 13 20.9	1.112	2.036	14.5	19.0	4 1	11 2.59	+ 4 33.7	2.299	3.225	7.9	20.9
4 11	10 57.70	+ 13 15.7	1.186	2.050	18.7	19.3	4 11	10 57.34	+ 5 11.1	2.363	3.214	11.0	21.1
<b>132396</b>	2002 GW <sub>97</sub>		3 9.2 300°09	4°1/ 12.6 18			<b>278693</b>	2008 RV <sub>128</sub>		3 9.2 80°64	0°9/ 8.4 17		
2 1	11 42.06	- 7 38.4	1.527	2.304	18.6	19.8	2 1	11 44.27	+ 5 20.0	1.979	2.782	14.0	21.3
2 11	11 39.02	- 7 44.8	1.437	2.297	15.3	19.5	2 11	11 39.93	+ 5 38.0	1.896	2.784	10.8	21.1
2 21	11 33.28	- 7 26.7	1.365	2.291	11.3	19.3	2 21	11 33.42	+ 6 6.2	1.837	2.786	7.0	20.9
3 2	11 25.39	- 6 44.1	1.316	2.285	7.0	19.0	3 2	11 25.33	+ 6 40.5	1.803	2.788	2.9	20.6
3 12	11 16.41	- 5 41.1	1.293	2.279	4.2	18.8	3 12	11 16.52	+ 7 15.6	1.799	2.790	1.8	20.5
3 22	11 7.57	- 4 25.1	1.296	2.273	6.5	18.9	3 22	11 7.99	+ 7 45.9	1.823	2.792	5.9	20.8
4 1	11 0.15	- 3 6.0	1.324	2.267	10.9	19.2	4 1	11 0.64	+ 8 7.2	1.874	2.794	9.8	21.0
4 11	10 55.13	- 1 53.5	1.375	2.262	15.2	19.4	4 11	10 55.21	+ 8 16.5	1.949	2.796	13.1	21.2
<b>366420</b>	2001 UZ <sub>20</sub>		3 9.2 181°52	3°7/ 13.8 17			<b>130880</b>	2000 VV <sub>13</sub>		3 9.2 202°05	0°3/ 8.9 18		
2 1	11 43.63	- 11 18.1	2.656	3.369	13.1	22.2	2 1	11 45.07	+ 1 58.8	1.956	2.747	14.6	20.2
2 11	11 38.96	- 11 12.2	2.553	3.370	10.8	22.1	2 11	11 40.68	+ 2 37.8	1.863	2.743	11.3	19.9
2 21	11 32.57	- 10 48.8	2.473	3.371	8.2	21.9	2 21	11 34.02	+ 3 31.9	1.793	2.739	7.5	19.7
3 2	11 24.90	- 10 8.5	2.419	3.371	5.5	21.7	3 2	11 25.63	+ 4 36.7	1.750	2.734	3.2	19.4
3 12	11 16.63	- 9 13.7	2.394	3.370	3.8	21.6	3 12	11 16.40	+ 5 45.9	1.736	2.728	1.5	19.3
3 22	11 8.49	- 8 8.6	2.400	3.368	4.7	21.6	3 22	11 7.33	+ 6 52.2	1.751	2.721	5.9	19.6
4 1	11 1.20	- 6 58.9	2.435	3.366	7.3	21.8	4 1	10 59.44	+ 7 49.0	1.793	2.714	10.1	19.8
4 11	10 55.36	- 5 50.4	2.497	3.362	10.0	22.0	4 11	10 53.50	+ 8 31.5	1.860	2.706	13.7	20.0
<b>220573</b>	2004 HF <sub>57</sub>		3 9.2 224°60	0°1/ 9.1 17			<b>245937</b>	2006 RS <sub>65</sub>		3 9.2 180°76	1°5/ 7.6 17		
2 1	11 42.48	+ 1 50.5	1.820	2.620	15.1	21.2	2 1	11 44.11	+ 8 24.8	2.536	3.333	11.4	20.7
2 11	11 38.79	+ 2 22.9	1.734	2.619	11.8	21.0	2 11	11 39.32	+ 8 44.2	2.448	3.334	8.7	20.6
2 21	11 32.80	+ 3 10.7	1.670	2.617	7.8	20.8	2 21	11 32.79	+ 9 9.7	2.385	3.334	5.7	20.4
3 2	11 25.09	+ 4 9.7	1.632	2.616	3.3	20.5	3 2	11 25.00	+ 9 37.4	2.351	3.334	2.5	20.1
3 12	11 16.56	+ 5 13.3	1.622	2.614	1.4	20.3	3 12	11 16.66	+ 10 3.0	2.346	3.334	2.2	20.1
3 22	11 8.25	+ 6 14.3	1.640	2.613	6.0	20.6	3 22	11 8.52	+ 10 22.8	2.371	3.333	5.3	20.3
4 1	11 1.18	+ 7 6.0	1.685	2.611	10.3	20.9	4 1	11 1.32	+ 10 33.8	2.425	3.333	8.4	20.5
4 11	10 56.12	+ 7 43.6	1.753	2.609	14.0	21.1	4 11	10 55.64	+ 10 34.0	2.504	3.332	11.2	20.7
<b>26911</b>	1996 JF <sub>1</sub>		3 9.2 12°09	2°0/ 10.8 18			<b>338437</b>	2003 DF <sub>17</sub>		3 9.2 100°45	2°8/ 12.2 17		
2 1	11 39.39	- 2 52.2	1.348	2.158	18.9	17.8	2 1	11 42.87	- 5 37.7	2.422	3.173	13.2	20.6
2 11	11 37.08	- 2 41.5	1.274	2.160	15.1	17.5	2 11	11 38.46	- 5 50.1	2.334	3.181	10.7	20.4
2 21	11 32.00	- 2 7.6	1.220	2.163	10.4	17.3	2 21	11 32.27	- 5 48.5	2.268	3.188	7.7	20.2
3 2	11 24.81	- 1 13.3	1.188	2.168	5.3	17.0	3 2	11 24.80	- 5 33.7	2.228	3.195	4.7	20.1
3 12	11 16.67	- 0 5.7	1.181	2.173	2.1	16.8	3 12	11 16.74	- 5 8.2	2.217	3.203	2.8	19.9
3 22	11 8.87	+ 1 6.0	1.199	2.179	6.5	17.1	3 22	11 8.87	- 4 35.9	2.236	3.210	4.5	20.1
4 1	11 2.66	+ 2 12.0	1.242	2.186	11.5	17.4	4 1	11 1.96	- 4 1.3	2.283	3.217	7.5	20.3
4 11	10 58.94	+ 3 4.4	1.306	2.193	15.8	17.6	4 11	10 56.59	- 3 28.9	2.356	3.224	10.4	20.5
<b>362029</b>	2008 YP <sub>99</sub>		3 9.2 65°57	1°0/ 10.0 18			<b>211223</b>	2002 PU <sub>89</sub>		3 9.2 252°66	2°8/ 12.2 17		
2 1	11 46.16	- 0 35.5	1.366	2.171	19.0	21.5	2 1	11 42.13	- 7 57.7	2.033	2.786	15.3	21.5
2 11	11 42.04	- 0 20.0	1.306	2.191	14.8	21.3	2 11	11 38.53	- 7 26.9	1.918	2.766	12.6	21.3
2 21	11 35.06	+ 0 15.7	1.266	2.211	10.0	21.1	2 21	11 32.71	- 6 33.1	1.824	2.746	9.2	21.0
3 2	11 26.04	+ 1 7.0	1.250	2.232	4.6	20.8	3 2	11 25.13	- 5 17.4	1.755	2.725	5.4	20.7
3 12	11 16.24	+ 2 6.4	1.260	2.252	1.5	20.7	3 12	11 16.56	- 3 44.2	1.715	2.703	2.8	20.5
3 22	11 7.05	+ 3 5.1	1.296	2.273	6.6	21.0	3 22	11 7.98	- 2 0.8	1.704	2.681	5.3	20.6
4 1	10 59.66	+ 3 55.0	1.357	2.293	11.4	21.4	4 1	11 0.38	- 0 16.3	1.722	2.658	9.4	20.8
4 11	10 54.89	+ 4 30.6	1.441	2.314	15.5	21.7	4 11	10 54.61	+ 1 20.5	1.765	2.634	13.3	21.0
<b>294679</b>	2008 AC <sub>106</sub>		3 9.2 141°10	4°0/ 4.1 17			<b>39236</b>	2000 YX <sub>56</sub>		3 9.2 231°72	1°2/ 10.4 17		
2 1	11 41.33	+ 15 43.9	2.575										



EPHEMERIDES

3 9.2

3 9.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>377819</b>	2006 <i>BB</i> <sub>75</sub>		3 9.2 351°25	1.4/ 7.9	17		<b>321998</b>	2010 <i>UX</i> <sub>77</sub>		3 9.3 90°62	1.6/10.6	18	
2 1	11 43.06	+ 5 59.4	1.897	2.706	14.3	21.3	2 1	11 44.98	- 1 42.2	1.791	2.575	16.0	21.1
2 11	11 39.13	+ 6 29.9	1.814	2.705	11.0	21.0	2 11	11 40.65	- 1 35.5	1.715	2.587	12.6	20.9
2 21	11 32.98	+ 7 11.3	1.754	2.705	7.1	20.8	2 21	11 33.98	- 1 12.2	1.661	2.598	8.6	20.7
3 2	11 25.18	+ 7 58.8	1.720	2.704	3.0	20.5	3 2	11 25.62	- 0 35.0	1.631	2.610	4.3	20.4
3 12	11 16.63	+ 8 45.9	1.714	2.704	2.3	20.5	3 12	11 16.55	+ 0 11.0	1.630	2.622	1.7	20.3
3 22	11 8.33	+ 9 26.7	1.737	2.704	6.4	20.7	3 22	11 7.82	+ 0 59.5	1.657	2.634	5.5	20.5
4 1	11 1.25	+ 9 56.0	1.786	2.704	10.3	21.0	4 1	11 0.43	+ 1 44.1	1.711	2.645	9.6	20.8
4 11	10 56.12	+10 10.8	1.858	2.704	13.8	21.2	4 11	10 55.13	+ 2 19.6	1.789	2.656	13.2	21.1
<b>500273</b>	2012 <i>MT</i> <sub>3</sub>		3 9.3 190°25	3.6/ 4.8	17		<b>283472</b>	2001 <i>QT</i> <sub>205</sub>		3 9.3 164°29	2.0/11.1	18	
2 1	11 41.34	+12 1.9	2.312	3.128	11.8	21.8	2 1	11 46.73	- 3 56.4	1.897	2.664	15.8	22.2
2 11	11 37.46	+13 18.5	2.231	3.127	9.0	21.6	2 11	11 41.97	- 3 38.3	1.810	2.670	12.6	22.0
2 21	11 31.72	+14 41.9	2.175	3.126	6.0	21.4	2 21	11 34.87	- 3 1.5	1.744	2.676	8.8	21.7
3 2	11 24.61	+16 5.4	2.148	3.124	3.8	21.3	3 2	11 26.03	- 2 8.3	1.705	2.681	4.6	21.5
3 12	11 16.87	+17 21.9	2.150	3.122	4.5	21.3	3 12	11 16.39	- 1 4.0	1.694	2.685	2.0	21.3
3 22	11 9.31	+18 25.1	2.181	3.120	7.3	21.5	3 22	11 6.99	+ 0 4.5	1.712	2.688	5.4	21.6
4 1	11 2.74	+19 10.9	2.239	3.118	10.3	21.7	4 1	10 58.87	+ 1 9.9	1.758	2.690	9.5	21.8
4 11	10 57.79	+19 37.4	2.320	3.115	13.0	21.9	4 11	10 52.80	+ 2 5.8	1.829	2.692	13.2	22.0
<b>408531</b>	2013 <i>JB</i> <sub>48</sub>		3 9.3 310°78	1.4/ 8.2	17		<b>11718</b>	Hayward		3 9.3 145°64	2.1/ 6.8	18	
2 1	11 41.23	+ 4 0.2	1.380	2.206	17.7	20.7	2 1	11 43.95	+ 8 43.7	2.384	3.186	11.9	19.2
2 11	11 38.72	+ 4 38.1	1.291	2.191	13.8	20.4	2 11	11 39.29	+ 9 30.2	2.307	3.196	9.1	19.0
2 21	11 33.29	+ 5 34.8	1.221	2.176	9.1	20.1	2 21	11 32.82	+10 23.7	2.255	3.205	5.9	18.9
3 2	11 25.51	+ 6 44.6	1.176	2.161	3.8	19.8	3 2	11 25.06	+11 19.5	2.231	3.213	2.8	18.7
3 12	11 16.48	+ 7 58.6	1.156	2.147	2.6	19.7	3 12	11 16.77	+12 11.7	2.237	3.221	2.9	18.7
3 22	11 7.58	+ 9 6.3	1.162	2.133	8.0	19.9	3 22	11 8.74	+12 55.3	2.273	3.229	5.9	18.9
4 1	11 0.19	+ 9 58.8	1.191	2.120	13.3	20.2	4 1	11 1.72	+13 26.7	2.336	3.236	9.1	19.1
4 11	10 55.39	+10 30.3	1.241	2.107	17.9	20.4	4 11	10 56.31	+13 43.8	2.424	3.242	11.9	19.3
<b>417733</b>	2007 <i>CO</i> <sub>48</sub>		3 9.3 345°37	2.5/11.3	17		<b>502668</b>	2015 <i>CD</i> <sub>53</sub>		3 9.3 40°73	1.2/ 8.0	18	
2 1	11 41.16	- 3 21.1	1.569	2.362	17.4	21.1	2 1	11 39.21	+ 2 17.1	1.611	2.426	16.1	20.3
2 11	11 38.20	- 3 25.2	1.482	2.357	14.0	20.8	2 11	11 36.30	+ 3 28.7	1.555	2.450	12.2	20.1
2 21	11 32.67	- 3 9.5	1.415	2.353	9.9	20.6	2 21	11 31.12	+ 4 57.0	1.522	2.475	7.8	19.9
3 2	11 25.15	- 2 35.5	1.372	2.349	5.4	20.3	3 2	11 24.37	+ 6 34.5	1.515	2.500	3.2	19.7
3 12	11 16.64	- 1 47.8	1.355	2.345	2.5	20.1	3 12	11 17.06	+ 8 11.5	1.535	2.525	2.2	19.7
3 22	11 8.34	- 0 53.5	1.364	2.342	6.0	20.3	3 22	11 10.21	+ 9 38.8	1.583	2.552	6.6	20.0
4 1	11 1.40	- 0 0.4	1.399	2.340	10.6	20.5	4 1	11 4.76	+10 49.2	1.656	2.578	10.7	20.3
4 11	10 56.74	+ 0 44.1	1.456	2.338	14.8	20.8	4 11	11 1.35	+11 39.0	1.753	2.605	14.2	20.6
<b>435863</b>	2008 <i>YC</i> <sub>2</sub>		3 9.3 102°56	17.9/21.3	18		<b>225545</b>	2000 <i>SO</i> <sub>163</sub>		3 9.3 176°07	4.1/14.2	17	
2 1	11 56.43	+39 39.2	1.185	2.007	20.3	20.3	2 1	11 41.98	-12 10.1	2.442	3.159	14.0	21.3
2 11	11 51.44	+42 57.8	1.175	2.027	18.6	20.2	2 11	11 37.89	-12 3.0	2.343	3.161	11.6	21.2
2 21	11 41.91	+45 46.2	1.185	2.047	17.9	20.3	2 21	11 31.99	-11 36.4	2.266	3.163	8.9	21.0
3 2	11 29.10	+47 45.4	1.216	2.066	18.5	20.4	3 2	11 24.76	-10 50.7	2.214	3.164	6.1	20.8
3 12	11 15.25	+48 44.9	1.265	2.085	19.9	20.5	3 12	11 16.89	- 9 48.6	2.190	3.165	4.2	20.7
3 22	11 2.75	+48 45.0	1.330	2.103	21.7	20.7	3 22	11 9.17	- 8 35.1	2.196	3.165	5.0	20.7
4 1	10 53.47	+47 53.9	1.410	2.121	23.4	20.9	4 1	11 2.36	- 7 16.4	2.230	3.164	7.7	20.9
4 11	10 48.29	+46 23.9	1.501	2.137	25.0	21.1	4 11	10 57.10	- 5 59.2	2.291	3.163	10.5	21.1
<b>233826</b>	2008 <i>UB</i> <sub>242</sub>		3 9.3 161°25	3.1/ 5.4	18		<b>7431</b>	1993 <i>FN</i> <sub>41</sub>		3 9.3 91°36	0.4/ 9.8	18	
2 1	11 41.12	+10 17.8	2.295	3.108	12.0	20.6	2 1	11 41.12	+ 0 23.8	2.335	3.117	12.7	18.2
2 11	11 37.27	+11 32.3	2.216	3.111	9.1	20.4	2 11	11 37.15	+ 0 49.6	2.256	3.130	9.9	18.0
2 21	11 31.57	+12 54.6	2.163	3.115	5.9	20.2	2 21	11 31.44	+ 1 27.8	2.200	3.142	6.6	17.8
3 2	11 24.54	+14 18.3	2.138	3.118	3.4	20.0	3 2	11 24.48	+ 2 15.2	2.172	3.154	3.0	17.6
3 12	11 16.92	+15 36.2	2.143	3.120	4.0	20.1	3 12	11 17.02	+ 3 7.0	2.173	3.166	1.0	17.4
3 22	11 9.51	+16 42.1	2.177	3.123	6.9	20.3	3 22	11 9.80	+ 3 58.0	2.204	3.178	4.6	17.7
4 1	11 3.09	+17 31.6	2.238	3.125	10.0	20.5	4 1	11 3.55	+ 4 43.4	2.263	3.190	8.0	18.0
4 11	10 58.27	+18 2.7	2.323	3.127	12.8	20.7	4 11	10 58.86	+ 5 19.5	2.347	3.201	11.0	18.2
<b>338944</b>	2004 <i>ER</i> <sub>66</sub>		3 9.3 357°28	2.2/ 7.5	17		<b>348984</b>	2006 <i>UK</i> <sub>160</sub>		3 9.3 185°96	1.4/11.2	17	
2 1	11 47.49	+10 43.9	2.088	2.894	13.2	20.0	2 1	11 39.23	- 4 5.3	2.724	3.483	11.7	22.4
2 11	11 42.30	+10 47.3	2.003	2.893	10.2	19.8	2 11	11 35.56	- 3 35.4	2.626	3.482	9.3	22.2
2 21	11 34.94	+10 55.1	1.942	2.892	6.7	19.5	2 21	11 30.35	- 2 51.6	2.552	3.482	6.5	22.0
3 2	11 26.00	+11 3.1	1.909	2.892	3.1	19.3	3 2	11 24.02	- 1 56.0	2.506	3.481	3.4	21.8
3 12	11 16.37	+11 6.7	1.905	2.891	2.9	19.3	3 12	11 17.18	- 0 52.4	2.489	3.480	1.5	21.7
3 22	11 7.03	+11 2.4	1.930	2.891	6.3	19.5	3 22	11 10.47	+ 0 14.2	2.503	3.479	3.9	21.9
4 1	10 58.92	+10 47.6	1.982	2.892	9.9	19.7	4 1	11 4.53	+ 1 18.8	2.546	3.477	7.0	22.1
4 11	10 52.72	+10 21.4	2.059	2.892	13.1	19.9	4 11	10 59.88	+ 2 16.7	2.615	3.475	9.8	22.2
<b>140122</b>	2001 <i>SG</i> <sub>140</sub>		3 9.3 111°27	1.6/11.3	18		<b>152395</b>	2005 <i>UJ</i> <sub>253</sub>		3 9.3 155°52	0.0/ 9.2	18	
2 1	11 39.32	- 4 34.7	2.421	3.184	12.9	20.3	2 1	11 44.21	+ 1 47.5	2.124	2.911	13.7	21.0
2 11	11 35.76	- 4 2.0	2.334	3.192	10.2	20.1	2 11	11 39.75	+ 2 12.5	2.039	2.916	10.6	20.8
2 21	11 30.52	- 3 13.5	2.270	3.200	7.1	19.9	2 21	11 33.27	+ 2 50.1	1.977	2.921	7.0	20.6
3 2	11 24.08	- 2 11.7	2.233	3.208	3.8	19.7	3 2	11 25.32	+ 3 36.9	1.942	2.925	3.0	20.4
3 12	11 17.11	- 1 1.2	2.225	3.215	1.6	19.6	3 12	11 16.70	+ 4 27.6	1.937	2.929	1.1	20.2
3 22	11 10.34	+ 0 12.3	2.247	3.223	4.2	19.8	3 22	11 8.31	+ 5 16.4	1.961	2.933	5.2	20.5
4 1	11 4.47	+ 1 22.9	2.297	3.230	7.5	20.0	4 1	11 1.03	+ 5 58.3	2.013	2.936	9.0	20.8
4 11	10 57.06	+ 2 25.4	2.374	3.237	10.5	20.2	4 11	10 55.53	+ 6 29.2	2.089	2.939	12.3	21.0
<b>452361</b>	2001 <i>VD</i> <sub>63</sub>		3 9.3 147°32	0.9/10.0	18		<b>518992</b>	2010 <i>JY</i> <sub>38</sub>		3 9.3 204°17	1.9/11.6	17	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>342966</b>	2009 BA <sub>10</sub>		3 9.3 64°90	3°8/12.9	17		<b>437591</b>	2014 AK <sub>50</sub>		3 9.3 84°79	8°7/27.6	18	
2 1	11 42.83	- 7 52.6	2.157	2.905	14.7	20.9	2 1	11 46.22	+31 36.2	2.306	3.116	12.0	21.3
2 11	11 38.71	- 8 11.5	2.071	2.912	12.0	20.7	2 11	11 41.32	+32 54.8	2.255	3.122	10.2	21.2
2 21	11 32.60	- 8 13.4	2.005	2.919	8.9	20.5	2 21	11 34.27	+34 4.2	2.229	3.128	9.0	21.1
3 2	11 25.04	- 7 58.6	1.965	2.927	5.8	20.4	3 2	11 25.72	+34 56.2	2.228	3.134	8.8	21.1
3 12	11 16.81	- 7 29.7	1.953	2.934	3.8	20.2	3 12	11 16.61	+35 24.9	2.254	3.140	9.7	21.2
3 22	11 8.78	- 6 50.9	1.969	2.941	5.2	20.3	3 22	11 7.93	+35 27.4	2.304	3.146	11.4	21.3
4 1	11 1.82	- 6 7.6	2.013	2.949	8.2	20.5	4 1	11 0.57	+35 4.1	2.377	3.151	13.2	21.4
4 11	10 56.60	- 5 25.6	2.082	2.956	11.3	20.7	4 11	10 55.19	+34 17.8	2.468	3.157	15.0	21.6
<b>391646</b>	2007 VY <sub>289</sub>		3 9.3 47°94	5°7/ 2.3	18		<b>428446</b>	2007 TJ <sub>381</sub>		3 9.3 253°74	5°4/ 3.5	17	
2 1	11 41.44	+13 31.5	1.779	2.610	14.1	19.9	2 1	11 44.80	+19 33.1	2.214	3.033	12.1	21.0
2 11	11 37.78	+16 1.7	1.745	2.648	10.6	19.8	2 11	11 40.23	+20 26.6	2.138	3.031	9.5	20.8
2 21	11 31.97	+18 35.7	1.737	2.686	7.3	19.7	2 21	11 33.59	+21 19.8	2.088	3.029	6.9	20.6
3 2	11 24.71	+21 1.3	1.758	2.725	5.7	19.7	3 2	11 25.47	+22 6.0	2.064	3.026	5.5	20.5
3 12	11 16.98	+23 7.1	1.808	2.763	7.1	19.8	3 12	11 16.70	+22 38.7	2.069	3.024	6.3	20.6
3 22	11 9.76	+24 45.5	1.886	2.801	9.9	20.1	3 22	11 8.22	+22 53.6	2.102	3.022	8.7	20.7
4 1	11 3.94	+25 53.5	1.989	2.839	12.7	20.3	4 1	11 0.89	+22 48.8	2.159	3.019	11.5	20.9
4 11	11 0.09	+26 32.1	2.113	2.877	15.1	20.6	4 11	10 55.40	+22 24.9	2.239	3.017	14.0	21.0
<b>421325</b>	2013 TZ <sub>70</sub>		3 9.3 219°00	0°9/ 8.5	16		<b>44168</b>	1998 JJ <sub>4</sub>		3 9.3 199°59	3°4/13.2	17	
2 1	11 48.51	+ 6 31.3	2.036	2.832	13.9	20.8	2 1	11 44.40	- 9 53.0	2.495	3.219	13.5	20.4
2 11	11 43.22	+ 6 33.4	1.945	2.828	10.8	20.6	2 11	11 39.76	- 9 41.2	2.388	3.214	11.2	20.2
2 21	11 35.66	+ 6 43.4	1.877	2.824	7.1	20.3	2 21	11 33.26	- 9 11.2	2.303	3.209	8.4	20.0
3 2	11 26.38	+ 6 57.8	1.836	2.820	3.0	20.1	3 2	11 25.35	- 8 23.7	2.244	3.202	5.4	19.8
3 12	11 16.31	+ 7 12.1	1.825	2.816	1.8	20.0	3 12	11 16.73	- 7 21.6	2.214	3.195	3.4	19.7
3 22	11 6.45	+ 7 22.0	1.843	2.812	5.9	20.2	3 22	11 8.20	- 6 9.6	2.215	3.186	4.8	19.8
4 1	10 57.81	+ 7 24.0	1.889	2.807	9.8	20.5	4 1	11 0.56	- 4 54.1	2.245	3.177	7.7	19.9
4 11	10 51.16	+ 7 15.7	1.959	2.802	13.3	20.7	4 11	10 54.46	- 3 41.3	2.302	3.167	10.8	20.1
<b>513105</b>	2017 WS <sub>24</sub>		3 9.3 211°48	3°4/14.1	17		<b>432221</b>	2009 FB <sub>54</sub>		3 9.3 20°95	1°1/ 8.0	17	
2 1	11 40.41	-11 28.8	3.191	3.898	11.2	22.7	2 1	11 38.95	+ 4 13.6	2.305	3.106	12.3	21.2
2 11	11 36.30	-11 23.6	3.078	3.890	9.3	22.5	2 11	11 35.62	+ 5 3.3	2.219	3.106	9.4	21.0
2 21	11 30.78	-11 3.8	2.987	3.881	7.1	22.3	2 21	11 30.52	+ 6 4.3	2.157	3.107	6.1	20.8
3 2	11 24.21	-10 29.8	2.923	3.872	4.9	22.2	3 2	11 24.15	+ 7 12.2	2.123	3.108	2.5	20.6
3 12	11 17.13	- 9 43.4	2.888	3.862	3.4	22.1	3 12	11 17.19	+ 8 21.0	2.119	3.109	1.9	20.5
3 22	11 10.10	- 8 47.9	2.884	3.851	4.1	22.1	3 22	11 10.42	+ 9 24.7	2.143	3.110	5.4	20.8
4 1	11 3.72	- 7 47.6	2.910	3.841	6.2	22.2	4 1	11 4.58	+10 18.1	2.196	3.111	8.8	21.0
4 11	10 58.48	- 6 47.2	2.963	3.829	8.6	22.4	4 11	11 0.25	+10 57.8	2.272	3.112	11.8	21.2
<b>181847</b>	1998 UG <sub>10</sub>		3 9.3 97°67	4°3/15.4	18		<b>83283</b>	2001 RY <sub>88</sub>		3 9.3 200°12	1°2/ 7.9	17	
2 1	11 38.27	-14 21.4	2.802	3.503	12.7	20.1	2 1	11 45.88	+ 6 8.4	2.416	3.206	12.1	20.9
2 11	11 34.79	-14 16.3	2.709	3.512	10.7	20.0	2 11	11 40.88	+ 6 39.9	2.320	3.202	9.3	20.7
2 21	11 29.83	-13 53.3	2.637	3.521	8.3	19.8	2 21	11 33.97	+ 7 20.2	2.249	3.197	6.1	20.5
3 2	11 23.80	-13 12.8	2.590	3.529	6.0	19.7	3 2	11 25.64	+ 8 5.3	2.207	3.191	2.6	20.2
3 12	11 17.29	-12 17.2	2.572	3.538	4.4	19.6	3 12	11 16.63	+ 8 50.2	2.195	3.184	2.0	20.2
3 22	11 10.95	-11 10.3	2.582	3.546	4.8	19.6	3 22	11 7.77	+ 9 29.9	2.213	3.177	5.4	20.4
4 1	11 5.39	- 9 57.4	2.621	3.554	6.7	19.8	4 1	10 59.88	+10 0.3	2.260	3.169	8.9	20.6
4 11	11 1.11	- 8 44.2	2.688	3.563	9.1	19.9	4 11	10 53.61	+10 18.6	2.332	3.160	11.9	20.8
<b>307711</b>	2003 UR <sub>95</sub>		3 9.3 91°43	0°6/ 8.8	18		<b>468509</b>	2005 NP <sub>125</sub>		3 9.3 165°04	5°0/15.8	18	
2 1	11 46.83	+ 3 11.0	1.664	2.466	16.2	21.0	2 1	11 42.40	-15 41.7	2.973	3.653	12.4	21.7
2 11	11 42.13	+ 3 42.5	1.599	2.485	12.5	20.8	2 11	11 37.92	-16 8.3	2.873	3.657	10.6	21.6
2 21	11 34.96	+ 4 28.2	1.556	2.505	8.1	20.6	2 21	11 31.89	-16 19.0	2.794	3.661	8.5	21.4
3 2	11 26.05	+ 5 22.8	1.539	2.524	3.4	20.4	3 2	11 24.71	-16 13.0	2.740	3.664	6.5	21.3
3 12	11 16.47	+ 6 19.1	1.551	2.543	1.7	20.3	3 12	11 16.98	-15 51.0	2.715	3.667	5.2	21.2
3 22	11 7.39	+ 7 9.8	1.590	2.561	6.3	20.6	3 22	11 9.36	-15 15.8	2.718	3.669	5.4	21.2
4 1	10 59.83	+ 7 49.2	1.656	2.579	10.6	20.9	4 1	11 2.49	-14 31.1	2.750	3.671	7.0	21.3
4 11	10 54.53	+ 8 13.7	1.744	2.597	14.2	21.2	4 11	10 56.91	-13 42.0	2.808	3.673	9.0	21.5
<b>8835</b>	Annona		3 9.3 89°41	3°4/ 5.4	18		<b>284651</b>	2007 XO <sub>6</sub>		3 9.3 81°49	3°0/ 5.9	18	
2 1	11 42.49	+13 23.0	2.378	3.192	11.6	17.3	2 1	11 41.89	+11 25.2	2.269	3.083	12.0	20.7
2 11	11 38.17	+14 10.8	2.309	3.203	8.8	17.1	2 11	11 37.84	+12 13.2	2.197	3.091	9.2	20.5
2 21	11 32.09	+15 2.1	2.265	3.214	5.9	17.0	2 21	11 31.94	+13 6.7	2.148	3.100	6.0	20.3
3 2	11 24.77	+15 51.5	2.249	3.226	3.6	16.8	3 2	11 24.74	+14 0.1	2.128	3.108	3.3	20.1
3 12	11 16.96	+16 33.3	2.263	3.237	4.1	16.9	3 12	11 17.00	+14 47.4	2.137	3.116	3.8	20.2
3 22	11 9.44	+17 3.3	2.305	3.248	6.7	17.1	3 22	11 9.54	+15 23.8	2.174	3.124	6.6	20.4
4 1	11 2.95	+17 18.7	2.374	3.259	9.6	17.3	4 1	11 3.13	+15 45.9	2.239	3.133	9.7	20.6
4 11	10 58.06	+17 18.6	2.466	3.270	12.1	17.5	4 11	10 58.35	+15 52.5	2.326	3.141	12.4	20.8
<b>428799</b>	2008 ST <sub>305</sub>		3 9.3 254°25	1°3/ 7.9	17		<b>435014</b>	2006 VA <sub>46</sub>		3 9.3 233°44	3°1/ 5.7	17	
2 1	11 42.97	+ 5 22.3	2.219	3.017	12.8	22.0	2 1	11 42.82	+13 8.9	2.497	3.308	11.2	21.6
2 11	11 38.93	+ 6 1.5	2.114	3.000	9.9	21.8	2 11	11 38.46	+13 46.9	2.412	3.304	8.6	21.4
2 21	11 32.85	+ 6 51.8	2.034	2.983	6.5	21.5	2 21	11 32.33	+14 28.6	2.351	3.300	5.7	21.2
3 2	11 25.21	+ 7 49.2	1.981	2.965	2.7	21.2	3 2	11 24.92	+15 9.2	2.318	3.296	3.4	21.0
3 12	11 16.75	+ 8 47.7	1.957	2.947	2.1	21.2	3 12	11 16.93	+15 43.4	2.315	3.292	3.8	21.1
3 22	11 8.35	+ 9 41.3	1.963	2.928	5.9	21.4	3 22	11 9.13	+16 7.2	2.342	3.288	6.5	21.2
4 1	11 0.89	+10 24.7	1.996	2.909	9.7	21.6	4 1	11 2.28	+16 17.7	2.395	3.283	9.4	21.4
4 11	10 55.12	+10 54.1	2.053	2.889	13.0	21.7	4 11	10 56.95	+16 13.8	2.472	3.279	12.0	21.6
<b>124533</b>	2001 RT <sub>91</sub>		3 9.3 99°06	0°3/ 9.0	18		<b>269780</b>	1999 TF <sub>145</sub>		3 9.3 235°96	0°2/ 9.1	17	
2 1	11 46.25	+ 1 21.0	1.528	2.331	17.4	20.1	2 1	11 48.97	+ 2 1				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>377188</b>	2003 <i>UB</i> <sub>338</sub>		3 9.3 23°80	1.7/ 7.8	17		<b>393599</b>	2003 <i>UL</i> <sub>168</sub>		3 9.3 84°87	0.7/ 8.8	18	
2 1	11 44.19	+ 7 26.5	1.999	2.806	13.7	21.4	2 1	11 51.76	+ 3 31.1	1.296	2.107	19.5	21.2
2 11	11 39.91	+ 7 50.9	1.916	2.807	10.5	21.2	2 11	11 46.46	+ 3 55.4	1.242	2.133	15.0	20.9
2 21	11 33.47	+ 8 24.1	1.856	2.807	6.8	21.0	2 21	11 38.05	+ 4 36.0	1.208	2.158	9.8	20.7
3 2	11 25.46	+ 9 1.4	1.823	2.807	3.0	20.8	3 2	11 27.45	+ 5 26.8	1.198	2.182	4.1	20.5
3 12	11 16.73	+ 9 37.0	1.819	2.808	2.5	20.7	3 12	11 16.10	+ 6 18.9	1.214	2.206	2.0	20.4
3 22	11 8.26	+ 10 5.7	1.843	2.808	6.2	21.0	3 22	11 5.53	+ 7 3.9	1.258	2.230	7.4	20.8
4 1	11 0.97	+ 10 23.2	1.894	2.809	10.0	21.2	4 1	10 57.05	+ 7 35.4	1.326	2.253	12.4	21.1
4 11	10 55.57	+ 10 27.3	1.969	2.810	13.3	21.4	4 11	10 51.46	+ 7 50.0	1.416	2.276	16.5	21.4
<b>235658</b>	2004 <i>RC</i> <sub>180</sub>		3 9.3 189°62	2.4/11.4	18		<b>214546</b>	2006 <i>OF</i> <sub>20</sub>		3 9.3 244°07	4.1/ 5.7	16	
2 1	11 46.08	- 4 43.8	1.868	2.634	16.0	21.5	2 1	11 46.96	+ 12 41.1	1.785	2.605	14.6	20.8
2 11	11 41.62	- 4 34.0	1.775	2.634	12.9	21.3	2 11	11 42.49	+ 13 31.5	1.697	2.594	11.3	20.5
2 21	11 34.76	- 4 4.9	1.703	2.632	9.1	21.1	2 21	11 35.44	+ 14 29.0	1.633	2.584	7.6	20.3
3 2	11 26.07	- 3 18.2	1.657	2.630	5.1	20.8	3 2	11 26.42	+ 15 26.4	1.595	2.573	4.5	20.1
3 12	11 16.49	- 2 18.6	1.638	2.628	2.4	20.6	3 12	11 16.42	+ 16 15.2	1.584	2.562	5.1	20.1
3 22	11 7.07	- 1 12.6	1.648	2.625	5.5	20.8	3 22	11 6.62	+ 16 48.7	1.602	2.550	8.7	20.2
4 1	10 58.90	- 0 7.8	1.686	2.621	9.7	21.1	4 1	10 58.17	+ 17 2.6	1.644	2.538	12.6	20.4
4 11	10 52.80	+ 0 48.9	1.749	2.616	13.5	21.3	4 11	10 51.96	+ 16 55.7	1.709	2.526	16.1	20.6
<b>500349</b>	2012 <i>TX</i> <sub>6</sub>		3 9.3 138°50	0.9/10.4	17		<b>337782</b>	2001 <i>UL</i> <sub>185</sub>		3 9.3 127°74	3.4/13.5	18	
2 1	11 40.08	- 2 5.4	2.541	3.311	12.2	22.2	2 1	11 41.77	- 9 39.4	2.658	3.384	12.7	21.1
2 11	11 36.28	- 1 30.9	2.453	3.318	9.5	22.0	2 11	11 37.53	- 9 42.3	2.569	3.395	10.5	21.0
2 21	11 30.86	- 0 42.7	2.389	3.325	6.5	21.8	2 21	11 31.67	- 9 29.4	2.501	3.406	7.9	20.8
3 2	11 24.28	+ 0 16.3	2.353	3.332	3.1	21.6	3 2	11 24.65	- 9 1.5	2.460	3.416	5.2	20.7
3 12	11 17.18	+ 1 21.5	2.346	3.338	1.1	21.4	3 12	11 17.12	- 8 21.1	2.448	3.426	3.5	20.6
3 22	11 10.28	+ 2 27.6	2.370	3.345	4.2	21.7	3 22	11 9.77	- 7 32.0	2.466	3.436	4.5	20.6
4 1	11 4.23	+ 3 29.4	2.422	3.350	7.4	21.9	4 1	11 3.27	- 6 39.1	2.512	3.445	7.0	20.8
4 11	10 59.59	+ 4 22.5	2.501	3.356	10.3	22.1	4 11	10 58.18	- 5 47.4	2.585	3.454	9.6	21.0
<b>70594</b>	1999 <i>TH</i> <sub>178</sub>		3 9.3 359°85	3°5/12.3	18		<b>422943</b>	2002 <i>TO</i> <sub>363</sub>		3 9.3 56°92	1°5/ 7.7	17	
2 1	11 41.74	- 6 4.8	1.776	2.549	16.5	19.4	2 1	11 41.29	+ 5 58.5	2.066	2.873	13.3	21.4
2 11	11 38.36	- 6 17.9	1.688	2.548	13.4	19.1	2 11	11 37.59	+ 6 39.5	1.987	2.878	10.2	21.2
2 21	11 32.65	- 6 11.7	1.621	2.547	9.8	18.9	2 21	11 31.91	+ 7 31.0	1.932	2.883	6.6	21.0
3 2	11 25.17	- 5 46.8	1.578	2.547	5.9	18.7	3 2	11 24.80	+ 8 27.9	1.904	2.889	2.8	20.8
3 12	11 16.83	- 5 6.6	1.561	2.547	3.5	18.5	3 12	11 17.06	+ 9 24.0	1.905	2.894	2.3	20.8
3 22	11 8.68	- 4 16.8	1.571	2.548	5.7	18.7	3 22	11 9.58	+ 10 13.3	1.934	2.899	6.0	21.0
4 1	11 1.77	- 3 24.5	1.608	2.548	9.6	18.9	4 1	11 3.19	+ 10 50.9	1.990	2.905	9.6	21.2
4 11	10 56.90	- 2 36.6	1.668	2.550	13.3	19.1	4 11	10 58.55	+ 11 14.0	2.070	2.910	12.8	21.5
<b>94390</b>	2001 <i>SW</i> <sub>112</sub>		3 9.3 132°59	2°2/11.3	18		<b>61550</b>	2000 <i>QK</i> <sub>70</sub>		3 9.3 302°33	2°9/ 6.2	17	
2 1	11 45.85	- 4 57.2	1.781	2.550	16.6	20.1	2 1	11 37.46	+ 0 43.3	1.377	2.200	17.9	18.9
2 11	11 41.38	- 4 32.7	1.702	2.563	13.2	19.9	2 11	11 36.12	+ 2 54.1	1.263	2.165	14.0	18.6
2 21	11 34.53	- 3 47.3	1.645	2.576	9.3	19.7	2 21	11 31.91	+ 5 44.3	1.172	2.129	9.1	18.2
3 2	11 25.93	- 2 43.8	1.613	2.588	5.0	19.4	3 2	11 25.17	+ 9 6.6	1.107	2.092	4.0	17.8
3 12	11 16.57	- 1 28.3	1.609	2.599	2.2	19.3	3 12	11 16.81	+ 12 44.8	1.070	2.056	4.8	17.7
3 22	11 7.56	- 0 8.7	1.634	2.610	5.5	19.5	3 22	11 8.16	+ 16 17.4	1.061	2.019	10.7	17.9
4 1	10 59.91	+ 1 7.0	1.686	2.620	9.7	19.8	4 1	11 0.72	+ 19 23.7	1.078	1.983	16.6	18.1
4 11	10 54.39	+ 2 11.7	1.762	2.629	13.4	20.0	4 11	10 55.86	+ 21 50.5	1.115	1.947	21.8	18.3
<b>368744</b>	2005 <i>UM</i> <sub>377</sub>		3 9.3 80°23	5°3/15.0	18		<b>301377</b>	2009 <i>CP</i> <sub>62</sub>		3 9.3 206°43	0°3/ 9.7	18	
2 1	11 40.59	- 14 8.7	1.870	2.599	17.3	20.7	2 1	11 43.62	+ 2 9.4	2.621	3.398	11.6	21.2
2 11	11 37.33	- 13 59.5	1.787	2.609	14.5	20.6	2 11	11 39.00	+ 2 15.4	2.524	3.395	9.1	21.0
2 21	11 31.87	- 13 24.0	1.722	2.620	11.2	20.4	2 21	11 32.67	+ 2 30.7	2.451	3.392	6.1	20.8
3 2	11 24.80	- 12 22.3	1.681	2.630	7.8	20.2	3 2	11 25.10	+ 2 52.9	2.406	3.388	2.7	20.5
3 12	11 17.00	- 10 58.2	1.666	2.640	5.5	20.1	3 12	11 16.95	+ 3 18.5	2.391	3.384	0.9	20.4
3 22	11 9.47	- 9 19.0	1.679	2.650	6.1	20.1	3 22	11 8.93	+ 3 44.0	2.407	3.380	4.3	20.6
4 1	11 3.16	- 7 34.1	1.719	2.660	9.1	20.3	4 1	11 1.76	+ 4 5.6	2.451	3.375	7.6	20.8
4 11	10 58.78	- 5 53.0	1.784	2.669	12.4	20.5	4 11	10 56.03	+ 4 20.4	2.522	3.370	10.5	21.0
<b>419714</b>	2010 <i>UK</i> <sub>98</sub>		3 9.3 29°14	2°5/11.2	18		<b>219017</b>	3156 <i>T</i> <sub>-3</sub>		3 9.3 196°84	1°8/ 7.4	16	
2 1	11 42.16	- 3 14.5	1.438	2.237	18.5	20.7	2 1	11 45.48	+ 7 28.4	2.320	3.117	12.4	21.9
2 11	11 39.06	- 3 16.6	1.367	2.245	14.7	20.5	2 11	11 40.67	+ 8 9.3	2.229	3.114	9.5	21.7
2 21	11 33.27	- 2 57.5	1.315	2.254	10.3	20.2	2 21	11 33.89	+ 8 58.8	2.161	3.110	6.2	21.5
3 2	11 25.46	- 2 19.3	1.286	2.263	5.5	20.0	3 2	11 25.66	+ 9 52.4	2.122	3.106	2.8	21.3
3 12	11 16.77	- 1 27.9	1.282	2.273	2.5	19.8	3 12	11 16.74	+ 10 44.1	2.114	3.101	2.6	21.3
3 22	11 8.46	- 0 31.1	1.305	2.284	6.2	20.1	3 22	11 7.99	+ 11 28.7	2.135	3.095	5.9	21.5
4 1	11 1.73	+ 0 22.7	1.353	2.295	10.8	20.3	4 1	11 0.25	+ 12 1.8	2.184	3.088	9.4	21.7
4 11	10 57.41	+ 1 6.4	1.423	2.307	15.0	20.6	4 11	10 54.19	+ 12 21.0	2.257	3.081	12.4	21.9
<b>371096</b>	2005 <i>UR</i> <sub>475</sub>		3 9.3 213°91	4°3/14.5	17		<b>135199</b>	2001 <i>RV</i> <sub>44</sub>		3 9.3 126°79	6°1/29.6	18	
2 1	11 42.20	- 13 18.5	2.458	3.167	14.1	22.3	2 1	11 44.60	+ 26 13.4	2.840	3.648	10.0	20.2
2 11	11 38.16	- 13 5.1	2.347	3.159	11.8	22.1	2 11	11 39.60	+ 27 24.0	2.787	3.663	8.1	20.1
2 21	11 32.27	- 12 30.9	2.258	3.150	9.1	21.9	2 21	11 32.94	+ 28 29.6	2.760	3.678	6.6	20.0
3 2	11 24.96	- 11 35.9	2.193	3.141	6.3	21.7	3 2	11 25.16	+ 29 24.4	2.762	3.692	6.1	20.0
3 12	11 16.94	- 10 22.8	2.157	3.130	4.4	21.5	3 12	11 16.95	+ 30 3.2	2.792	3.705	7.0	20.1
3 22	11 8.99	- 8 56.5	2.151	3.119	5.2	21.6	3 22	11 9.06	+ 30 23.1	2.849	3.719	8.6	20.2
4 1	11 1.90	- 7 23.9	2.174	3.108	7.8	21.7	4 1	11 2.16	+ 30 23.5	2.931	3.731	10.4	20.4
4 11	10 56.36	- 5 52.4	2.224	3.096	10.8	21.9	4 11	10 56.78	+ 30 5.5	3.035	3.744	12.1	20.5
<b>76288</b>	2000 <i>EJ</i> <sub>123</sub>		3 9.3 312°44	1°4/ 7.8	18		<b>78337</b>	2002 <i>PG</i> <sub>88</sub>					

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>286132</b>	2001 <i>TW</i> <sub>164</sub>		3 9.3 150°51	3°9/ 4.9 18			<b>107201</b>	2001 <i>BE</i> <sub>32</sub>		3 9.3 101°07	1°4/10.4 18		
2 1	11 45.51	+13 41.7	2.267	3.078	12.2	21.4	2 1	11 47.88	- 1 0.5	1.721	2.504	16.5	20.1
2 11	11 40.64	+14 45.8	2.195	3.087	9.3	21.3	2 11	11 42.96	- 0 54.4	1.650	2.522	13.0	19.9
2 21	11 33.82	+15 54.2	2.149	3.096	6.3	21.1	2 21	11 35.57	- 0 31.8	1.600	2.539	8.8	19.6
3 2	11 25.60	+17 0.4	2.130	3.105	4.0	21.0	3 2	11 26.42	+ 0 4.2	1.576	2.556	4.3	19.4
3 12	11 16.80	+17 57.6	2.142	3.112	4.7	21.0	3 12	11 16.55	+ 0 48.3	1.580	2.572	1.6	19.2
3 22	11 8.30	+18 40.6	2.182	3.119	7.4	21.2	3 22	11 7.12	+ 1 34.0	1.612	2.588	5.6	19.6
4 1	11 0.91	+19 6.3	2.249	3.126	10.4	21.4	4 1	10 59.16	+ 2 14.9	1.672	2.604	9.9	19.8
4 11	10 55.27	+19 13.8	2.340	3.131	13.0	21.6	4 11	10 53.43	+ 2 46.1	1.755	2.619	13.6	20.1
<b>374533</b>	2006 <i>AB</i> <sub>75</sub>		3 9.3 183°55	4°6/ 3.2 17			<b>352787</b>	2008 <i>UP</i> <sub>124</sub>		3 9.3 222°19	2°1/10.9 18		
2 1	11 43.11	+16 15.2	2.466	3.281	11.2	21.6	2 1	11 48.55	- 1 56.4	1.698	2.478	16.9	21.6
2 11	11 38.78	+17 41.6	2.388	3.281	8.6	21.5	2 11	11 43.87	- 2 5.6	1.603	2.471	13.5	21.4
2 21	11 32.61	+19 11.5	2.337	3.281	6.1	21.3	2 21	11 36.48	- 1 58.1	1.529	2.464	9.5	21.1
3 2	11 25.11	+20 37.9	2.315	3.281	4.7	21.2	3 2	11 26.95	- 1 35.1	1.479	2.457	5.0	20.8
3 12	11 16.98	+21 53.5	2.323	3.279	5.6	21.3	3 12	11 16.31	- 1 0.8	1.457	2.448	2.2	20.6
3 22	11 9.04	+22 52.9	2.360	3.277	8.0	21.4	3 22	11 5.79	+ 0 21.1	1.464	2.440	6.1	20.8
4 1	11 2.07	+23 32.7	2.423	3.275	10.6	21.6	4 1	10 56.64	+ 0 17.5	1.496	2.431	10.7	21.1
4 11	10 56.67	+23 52.1	2.508	3.272	13.0	21.7	4 11	10 49.83	+ 0 48.6	1.553	2.421	14.8	21.3
<b>35521</b>	1998 <i>FX</i> <sub>61</sub>		3 9.3 13°34	1°1/10.1 18			<b>43450</b>	2000 <i>YX</i> <sub>91</sub>		3 9.3 267°82	1°3/ 8.3 18		
2 1	11 42.15	+ 0 17.5	1.496	2.304	17.4	18.9	2 1	11 44.36	+ 4 39.6	1.621	2.433	16.1	19.6
2 11	11 39.01	+ 0 18.1	1.420	2.307	13.7	18.7	2 11	11 40.68	+ 5 13.2	1.533	2.426	12.5	19.3
2 21	11 33.24	+ 0 35.8	1.365	2.311	9.3	18.4	2 21	11 34.37	+ 6 1.5	1.467	2.418	8.2	19.0
3 2	11 25.49	+ 1 7.7	1.333	2.315	4.4	18.1	3 2	11 26.02	+ 6 59.2	1.426	2.411	3.5	18.7
3 12	11 16.85	+ 1 47.9	1.328	2.320	1.5	17.9	3 12	11 16.66	+ 7 58.9	1.413	2.404	2.3	18.6
3 22	11 8.53	+ 2 29.4	1.348	2.326	6.2	18.3	3 22	11 7.49	+ 8 52.4	1.426	2.396	7.1	18.9
4 1	11 1.72	+ 3 5.3	1.394	2.333	10.9	18.5	4 1	10 59.71	+ 9 33.0	1.466	2.388	11.8	19.1
4 11	10 57.25	+ 3 30.0	1.462	2.340	15.0	18.8	4 11	10 54.23	+ 9 56.3	1.527	2.381	15.8	19.4
<b>246031</b>	2006 <i>UW</i> <sub>76</sub>		3 9.3 177°48	0°4/ 9.8 17			<b>465202</b>	2007 <i>JB</i> <sub>31</sub>		3 9.3 295°98	8°4/18.9 17		
2 1	11 41.79	+ 1 2.5	2.770	3.544	11.2	21.6	2 1	11 38.38	-23 5.4	1.973	2.644	18.2	21.0
2 11	11 37.49	+ 1 18.5	2.676	3.545	8.7	21.4	2 11	11 35.95	-23 8.7	1.854	2.622	16.2	20.8
2 21	11 31.64	+ 1 44.3	2.607	3.546	5.8	21.2	2 21	11 31.24	-22 40.9	1.752	2.599	13.7	20.6
3 2	11 24.66	+ 2 17.7	2.565	3.547	2.6	21.0	3 2	11 24.70	-21 37.8	1.670	2.577	11.1	20.4
3 12	11 17.17	+ 2 54.9	2.554	3.547	0.8	20.8	3 12	11 17.13	-19 59.2	1.612	2.554	8.9	20.2
3 22	11 9.83	+ 3 32.2	2.574	3.547	4.1	21.1	3 22	11 9.53	-17 49.6	1.581	2.532	8.5	20.1
4 1	11 3.28	+ 4 5.6	2.622	3.547	7.1	21.3	4 1	11 2.98	-15 18.5	1.576	2.510	10.3	20.1
4 11	10 58.05	+ 4 32.1	2.697	3.546	9.9	21.4	4 11	10 58.37	-12 39.0	1.598	2.488	13.3	20.3
<b>341648</b>	2007 <i>VL</i> <sub>46</sub>		3 9.3 108°07	1°5/10.9 17			<b>422765</b>	2001 <i>UP</i> <sub>22</sub>		3 9.3 134°62	2°0/11.6 18		
2 1	11 42.32	- 2 32.7	2.466	3.231	12.6	22.0	2 1	11 44.62	- 5 5.4	2.417	3.167	13.3	22.1
2 11	11 38.02	- 2 21.5	2.384	3.244	10.0	21.8	2 11	11 39.80	- 4 46.3	2.334	3.183	10.6	21.9
2 21	11 32.02	- 1 57.3	2.325	3.257	6.9	21.6	2 21	11 33.21	- 4 11.9	2.274	3.199	7.4	21.7
3 2	11 24.82	- 1 22.3	2.294	3.270	3.6	21.4	3 2	11 25.34	- 3 24.1	2.242	3.214	4.1	21.6
3 12	11 17.12	- 0 40.1	2.292	3.283	1.5	21.3	3 12	11 16.95	- 2 27.2	2.239	3.228	2.0	21.4
3 22	11 9.65	+ 0 4.6	2.320	3.295	4.2	21.5	3 22	11 8.81	- 1 26.3	2.266	3.241	4.3	21.6
4 1	11 3.12	+ 0 47.2	2.377	3.308	7.4	21.7	4 1	11 1.67	- 0 26.8	2.323	3.254	7.6	21.8
4 11	10 58.08	+ 1 23.7	2.459	3.320	10.3	21.9	4 11	10 56.12	+ 0 26.2	2.406	3.266	10.5	22.0
<b>488597</b>	2002 <i>QQ</i> <sub>111</sub>		3 9.3 218°50	2°1/10.9 18			<b>508638</b>	2017 <i>TH</i> <sub>6</sub>		3 9.3 203°65	1°6/ 7.4 17		
2 1	11 48.30	- 2 51.6	1.722	2.498	16.8	22.1	2 1	11 41.58	+ 7 1.1	2.553	3.352	11.3	21.6
2 11	11 43.68	- 2 48.7	1.624	2.490	13.5	21.8	2 11	11 37.51	+ 7 44.6	2.462	3.348	8.7	21.4
2 21	11 36.36	- 2 27.2	1.547	2.481	9.5	21.5	2 21	11 31.75	+ 8 36.4	2.395	3.345	5.6	21.2
3 2	11 26.90	- 1 48.6	1.494	2.471	5.0	21.3	3 2	11 24.74	+ 9 32.2	2.357	3.341	2.5	21.0
3 12	11 16.30	- 0 57.6	1.470	2.461	2.2	21.0	3 12	11 17.16	+10 26.9	2.349	3.336	2.3	20.9
3 22	11 5.80	- 0 0.8	1.473	2.449	6.0	21.3	3 22	11 9.73	+11 15.4	2.370	3.331	5.4	21.1
4 1	10 56.62	+ 0 54.0	1.504	2.437	10.7	21.5	4 1	11 3.15	+11 53.7	2.420	3.326	8.5	21.3
4 11	10 49.75	+ 1 40.1	1.558	2.425	14.9	21.7	4 11	10 58.02	+12 19.1	2.495	3.321	11.3	21.5
<b>97823</b>	2000 <i>OQ</i> <sub>56</sub>		3 9.3 235°19	0°0/ 9.2 17			<b>304471</b>	2006 <i>UD</i> <sub>74</sub>		3 9.3 245°08	0°2/ 9.1 17		
2 1	11 47.74	+ 2 37.7	1.697	2.495	16.2	19.9	2 1	11 42.46	+ 3 26.3	2.457	3.244	12.0	21.2
2 11	11 43.22	+ 2 47.5	1.604	2.486	12.7	19.7	2 11	11 38.26	+ 3 41.0	2.360	3.239	9.3	21.0
2 21	11 36.03	+ 3 11.5	1.532	2.477	8.5	19.4	2 21	11 32.28	+ 4 5.2	2.288	3.233	6.2	20.8
3 2	11 26.74	+ 3 46.2	1.485	2.468	3.7	19.1	3 2	11 24.99	+ 4 36.0	2.244	3.227	2.6	20.6
3 12	11 16.37	+ 4 25.9	1.466	2.459	1.4	18.9	3 12	11 17.07	+ 5 9.4	2.228	3.221	1.1	20.4
3 22	11 6.15	+ 5 4.3	1.475	2.449	6.4	19.2	3 22	11 9.29	+ 5 41.1	2.243	3.215	4.7	20.7
4 1	10 57.30	+ 5 34.9	1.511	2.438	11.1	19.4	4 1	11 2.40	+ 6 7.0	2.286	3.208	8.1	20.9
4 11	10 50.75	+ 5 53.3	1.569	2.428	15.2	19.6	4 11	10 57.02	+ 6 24.0	2.354	3.202	11.2	21.1
<b>162618</b>	2000 <i>SA</i> <sub>111</sub>		3 9.3 234°52	0°0/ 9.1 17			<b>386397</b>	2008 <i>UP</i> <sub>173</sub>		3 9.3 127°47	5°4/16.0 17		
2 1	11 44.76	+ 1 0.7	1.815	2.609	15.4	21.0	2 1	11 41.55	-16 15.8	2.387	3.082	14.8	21.7
2 11	11 40.78	+ 1 35.4	1.717	2.598	12.1	20.8	2 11	11 37.63	-16 19.6	2.297	3.092	12.6	21.5
2 21	11 34.35	+ 2 27.2	1.641	2.586	8.1	20.5	2 21	11 31.89	-16 1.9	2.226	3.102	10.0	21.3
3 2	11 26.00	+ 3 32.2	1.591	2.574	3.5	20.2	3 2	11 24.81	-15 22.3	2.180	3.112	7.4	21.2
3 12	11 16.65	+ 4 43.9	1.569	2.561	1.3	20.0	3 12	11 17.14	-14 22.9	2.161	3.121	5.6	21.1
3 22	11 7.39	+ 5 54.3	1.575	2.548	6.2	20.3	3 22	11 9.67	-13 8.4	2.170	3.130	5.9	21.1
4 1	10 59.33	+ 6 55.9	1.609	2.535	10.7	20.5	4 1	11 3.17	-11 45.3	2.207	3.138	7.9	21.3
4 11	10 53.36	+ 7 43.1	1.666	2.520	14.7	20.7	4 11	10 58.25	-10 20.9	2.271	3.147	10.4	21.4
<b>166640</b>	2002 <i>SV</i> <sub>49</sub>		3 9.3 126°84	1°1/ 7.9 18			<b>461909</b>	2006 <i>QL</i> <sub>53</sub>		3 9.3 262°55	0°7/ 9.9 17		

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>165427</b>	2000 YF <sub>62</sub>		3 9.3 32°08	3°3/ 6.4 18			<b>13344</b>	1998 SD <sub>130</sub>		3 9.3 202°41	0°3/ 9.7 18		
2 1	11 41.85	+ 7 34.4	1.438	2.270	16.8	19.4	2 1	11 41.79	+ 0 41.4	2.222	3.007	13.2	18.7
2 11	11 38.91	+ 8 46.7	1.369	2.273	12.8	19.1	2 11	11 37.93	+ 1 7.7	2.130	3.006	10.3	18.5
2 21	11 33.23	+10 13.8	1.321	2.277	8.3	18.9	2 21	11 32.16	+ 1 47.3	2.062	3.004	6.9	18.3
3 2	11 25.52	+11 46.9	1.298	2.281	4.1	18.6	3 2	11 24.98	+ 2 37.1	2.020	3.002	3.1	18.0
3 12	11 16.90	+13 14.7	1.301	2.285	4.5	18.7	3 12	11 17.14	+ 3 31.9	2.007	3.000	1.0	17.9
3 22	11 8.64	+14 27.3	1.331	2.290	8.8	18.9	3 22	11 9.45	+ 4 26.2	2.024	2.998	4.9	18.1
4 1	11 1.97	+15 17.5	1.384	2.295	13.2	19.2	4 1	11 2.75	+ 5 14.6	2.069	2.996	8.6	18.4
4 11	10 57.72	+15 42.7	1.458	2.300	17.1	19.4	4 11	10 57.69	+ 5 52.8	2.138	2.993	11.9	18.6
<b>229554</b>	2005 YR <sub>195</sub>		3 9.3 72°93	0°3/ 9.6 17			<b>355824</b>	2008 TR <sub>115</sub>		3 9.3 198°03	2°3/ 11.1 18		
2 1	11 41.71	+ 0 11.9	1.870	2.664	15.0	20.7	2 1	11 48.29	- 2 58.8	1.738	2.512	16.8	21.2
2 11	11 38.15	+ 0 44.7	1.790	2.671	11.7	20.5	2 11	11 43.57	- 3 2.3	1.645	2.510	13.4	21.0
2 21	11 32.41	+ 1 33.6	1.732	2.677	7.8	20.3	2 21	11 36.22	- 2 47.9	1.574	2.507	9.4	20.7
3 2	11 25.09	+ 2 34.7	1.701	2.683	3.5	20.0	3 2	11 26.84	- 2 17.2	1.528	2.504	5.1	20.4
3 12	11 17.06	+ 3 41.4	1.697	2.690	1.1	19.9	3 12	11 16.43	- 1 34.3	1.509	2.500	2.3	20.2
3 22	11 9.30	+ 4 46.8	1.722	2.696	5.5	20.2	3 22	11 6.20	- 0 45.6	1.519	2.495	5.9	20.5
4 1	11 2.74	+ 5 44.1	1.773	2.703	9.6	20.4	4 1	10 57.32	+ 0 1.9	1.556	2.490	10.3	20.7
4 11	10 58.10	+ 6 28.4	1.849	2.709	13.2	20.7	4 11	10 50.72	+ 0 41.8	1.616	2.484	14.4	20.9
<b>235276</b>	2003 TR <sub>58</sub>		3 9.3 179°18	0°0/ 9.4 17			<b>122540</b>	2000 QS <sub>220</sub>		3 9.3 109°39	2°1/ 6.9 18		
2 1	11 42.20	+ 1 26.4	2.423	3.205	12.3	21.6	2 1	11 42.31	+ 5 56.9	2.005	2.812	13.7	20.5
2 11	11 38.05	+ 1 55.6	2.332	3.206	9.6	21.4	2 11	11 38.42	+ 7 8.3	1.934	2.825	10.4	20.3
2 21	11 32.14	+ 2 36.6	2.264	3.207	6.4	21.2	2 21	11 32.48	+ 8 31.4	1.887	2.839	6.7	20.1
3 2	11 24.93	+ 3 26.2	2.225	3.207	2.8	21.0	3 2	11 25.10	+ 9 59.8	1.868	2.852	3.0	19.9
3 12	11 17.12	+ 4 19.6	2.215	3.207	1.0	20.8	3 12	11 17.11	+11 25.4	1.878	2.864	3.0	20.0
3 22	11 9.49	+ 5 11.7	2.235	3.207	4.7	21.1	3 22	11 9.44	+12 40.9	1.917	2.877	6.6	20.2
4 1	11 2.76	+ 5 57.8	2.283	3.206	8.1	21.3	4 1	11 2.93	+13 40.6	1.984	2.889	10.1	20.4
4 11	10 57.56	+ 6 33.9	2.357	3.205	11.1	21.5	4 11	10 58.22	+14 21.7	2.074	2.901	13.2	20.7
<b>188455</b>	2004 JC <sub>11</sub>		3 9.3 239°26	0°5/ 9.9 18			<b>421073</b>	2013 QB <sub>28</sub>		3 9.3 149°16	0°5/ 8.8 17		
2 1	11 41.56	- 1 44.6	2.183	2.960	13.7	20.6	2 1	11 42.96	+ 2 40.5	1.997	2.793	14.1	21.6
2 11	11 37.91	- 0 56.2	2.077	2.947	10.8	20.4	2 11	11 39.00	+ 3 17.9	1.914	2.797	10.9	21.4
2 21	11 32.26	+ 0 9.9	1.994	2.933	7.3	20.2	2 21	11 32.94	+ 4 8.8	1.853	2.801	7.2	21.2
3 2	11 25.06	+ 1 30.5	1.938	2.919	3.4	19.9	3 2	11 25.33	+ 5 8.9	1.820	2.804	3.0	20.9
3 12	11 17.06	+ 2 59.6	1.911	2.904	1.0	19.7	3 12	11 17.02	+ 6 11.8	1.815	2.807	1.5	20.8
3 22	11 9.12	+ 4 29.8	1.915	2.889	5.1	19.9	3 22	11 8.95	+ 7 11.0	1.839	2.810	5.7	21.1
4 1	11 2.11	+ 5 53.8	1.947	2.873	9.1	20.1	4 1	11 2.02	+ 8 0.6	1.890	2.812	9.6	21.4
4 11	10 56.77	+ 7 5.4	2.004	2.857	12.6	20.3	4 11	10 56.93	+ 8 36.5	1.966	2.815	13.0	21.6
<b>342901</b>	2008 YO <sub>120</sub>		3 9.3 151°70	1°3/ 10.7 17			<b>522347</b>	2016 CQ <sub>297</sub>		3 9.3 327°38	2°1/ 7.5 17		
2 1	11 42.78	- 1 18.6	2.253	3.028	13.4	21.1	2 1	11 39.16	+ 5 6.5	1.461	2.290	16.7	21.1
2 11	11 38.64	- 1 14.5	2.163	3.029	10.6	21.0	2 11	11 36.97	+ 5 59.2	1.374	2.277	12.9	20.8
2 21	11 32.60	- 0 57.2	2.094	3.030	7.3	20.7	2 21	11 32.11	+ 7 9.6	1.308	2.264	8.4	20.5
3 2	11 25.15	- 0 29.0	2.053	3.031	3.7	20.5	3 2	11 25.13	+ 8 31.2	1.266	2.252	3.6	20.2
3 12	11 17.06	+ 0 6.6	2.040	3.032	1.4	20.4	3 12	11 17.07	+ 9 54.3	1.251	2.240	3.2	20.2
3 22	11 9.14	+ 0 44.8	2.057	3.033	4.6	20.6	3 22	11 9.16	+11 8.5	1.261	2.229	8.1	20.4
4 1	11 2.21	+ 1 20.8	2.102	3.034	8.2	20.8	4 1	11 2.66	+12 5.4	1.296	2.219	12.9	20.7
4 11	10 56.92	+ 1 50.2	2.172	3.034	11.4	21.0	4 11	10 58.54	+12 39.8	1.351	2.210	17.2	20.9
<b>381562</b>	2008 TG <sub>164</sub>		3 9.3 111°53	0°1/ 9.2 17			<b>469262</b>	2016 JH <sub>30</sub>		3 9.3 299°88	8°5/ 16.8 17		
2 1	11 42.88	+ 2 26.5	2.137	2.928	13.5	22.1	2 1	11 40.67	-18 15.5	1.831	2.537	18.3	20.4
2 11	11 38.77	+ 2 49.7	2.054	2.934	10.4	21.9	2 11	11 37.94	-18 58.5	1.717	2.514	16.1	20.1
2 21	11 32.69	+ 3 24.8	1.995	2.940	6.9	21.7	2 21	11 32.72	-19 16.4	1.620	2.490	13.5	19.9
3 2	11 25.19	+ 4 8.3	1.962	2.945	2.9	21.4	3 2	11 25.43	-19 4.9	1.544	2.466	10.7	19.7
3 12	11 17.06	+ 4 55.0	1.958	2.951	1.1	21.3	3 12	11 16.93	-18 22.6	1.492	2.442	8.7	19.5
3 22	11 9.17	+ 5 39.4	1.984	2.956	5.1	21.6	3 22	11 8.29	-17 12.4	1.465	2.419	8.8	19.4
4 1	11 2.35	+ 6 16.7	2.037	2.962	8.9	21.8	4 1	11 0.71	-15 41.5	1.463	2.396	11.0	19.5
4 11	10 57.25	+ 6 43.3	2.115	2.967	12.1	22.0	4 11	10 55.23	-14 0.6	1.485	2.373	14.2	19.6
<b>502689</b>	2015 CJ <sub>62</sub>		3 9.3 239°08	11°2/ 19.3 17			<b>243791</b>	2000 SD <sub>80</sub>		3 9.3 173°07	1°1/ 8.3 18		
2 1	11 49.51	-26 52.2	2.266	2.873	17.5	20.9	2 1	11 46.96	+ 4 31.1	1.904	2.701	14.7	21.1
2 11	11 44.45	-28 34.0	2.163	2.866	16.0	20.7	2 11	11 42.20	+ 5 7.7	1.820	2.705	11.3	21.3
2 21	11 36.86	-29 54.7	2.077	2.859	14.3	20.6	2 21	11 35.11	+ 5 56.9	1.759	2.707	7.4	20.8
3 2	11 27.18	-30 48.3	2.013	2.853	12.6	20.4	3 2	11 26.29	+ 6 53.7	1.725	2.709	3.1	20.6
3 12	11 16.26	-31 11.0	1.971	2.846	11.5	20.3	3 12	11 16.67	+ 7 51.5	1.720	2.711	2.0	20.5
3 22	11 5.20	-31 2.4	1.954	2.838	11.2	20.3	3 22	11 7.31	+ 8 43.5	1.744	2.711	6.3	20.8
4 1	10 55.17	-30 26.1	1.962	2.831	12.0	20.3	4 1	10 59.23	+ 9 24.2	1.795	2.711	10.4	21.0
4 11	10 47.17	-29 29.6	1.992	2.823	13.6	20.4	4 11	10 53.18	+ 9 49.9	1.869	2.711	13.9	21.2
<b>431455</b>	2007 RG <sub>209</sub>		3 9.3 114°27	2°5/ 6.8 17			<b>358556</b>	2007 TS <sub>197</sub>		3 9.3 68°49	1°8/ 11.2 17		
2 1	11 44.67	+10 30.8	2.267	3.074	12.3	21.4	2 1	11 41.24	- 3 23.2	2.151	2.923	14.0	21.4
2 11	11 40.00	+11 1.3	2.190	3.081	9.4	21.2	2 11	11 37.49	- 3 10.2	2.069	2.933	11.1	21.2
2 21	11 33.41	+11 37.3	2.138	3.088	6.1	21.0	2 21	11 31.84	- 2 41.7	2.010	2.943	7.7	21.0
3 2	11 25.47	+12 13.9	2.113	3.094	3.1	20.8	3 2	11 24.83	- 1 59.9	1.977	2.953	4.1	20.8
3 12	11 16.97	+12 45.8	2.117	3.101	3.2	20.8	3 12	11 17.22	- 1 9.1	1.972	2.963	1.8	20.7
3 22	11 8.74	+13 8.7	2.151	3.107	6.2	21.0	3 22	11 9.86	- 0 14.9	1.997	2.973	4.6	20.9
4 1	11 1.60	+13 19.5	2.212	3.113	9.4	21.2	4 1	11 3.54	+ 0 37.0	2.049	2.984	8.2	21.1
4 11	10 56.16	+13 16.7	2.297	3.119	12.3	21.4	4 11	10 58.89	+ 1 21.7	2.126	2.994	11.4	21.3
<b>203807</b>	2002 TG <sub>146</sub>		3 9.3 204°30	0°8/ 10.2 17			<b>206802</b>	2004 DF <sub>49</sub>		3 9.3 88°98	0°0/ 9.1 18		
2 1	11 43.05	+ 0 0.3	2.415	3.190									

EPHEMERIDES

3 9.3

3 9.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>98049</b>	2000 <i>RS</i> <sub>32</sub>		3 9.3 245°07	3°2/12.0	18		<b>493493</b>	2015 <i>AZ</i> <sub>220</sub>		3 9.3 138°29	3°5/13.6	18	
2 1	11 43.86	- 6 18.9	1.716	2.486	17.1	19.7	2 1	11 43.80	-10 43.9	2.395	3.118	14.1	21.9
2 11	11 40.27	- 6 12.9	1.617	2.476	13.9	19.4	2 11	11 39.27	-10 25.9	2.308	3.133	11.6	21.7
2 21	11 34.14	- 5 44.8	1.538	2.466	10.1	19.1	2 21	11 32.94	- 9 48.7	2.243	3.147	8.6	21.5
3 2	11 25.99	- 4 55.2	1.484	2.455	5.9	18.9	3 2	11 25.30	- 8 53.4	2.204	3.161	5.6	21.4
3 12	11 16.76	- 3 48.6	1.455	2.444	3.2	18.7	3 12	11 17.10	- 7 43.6	2.194	3.174	3.6	21.3
3 22	11 7.60	- 2 32.2	1.455	2.432	5.9	18.8	3 22	11 9.14	- 6 24.9	2.213	3.185	4.7	21.3
4 1	10 59.69	- 1 14.7	1.481	2.420	10.3	19.0	4 1	11 2.18	- 5 3.9	2.263	3.197	7.6	21.5
4 11	10 53.97	- 0 4.7	1.531	2.408	14.5	19.2	4 11	10 56.81	- 3 47.1	2.338	3.207	10.5	21.7
<b>467529</b>	2007 <i>PU</i> <sub>30</sub>		3 9.3 215°42	2°2/12.2	17		<b>368686</b>	2005 <i>SD</i> <sub>14</sub>		3 9.3 214°28	1°1/10.5	17	
2 1	11 42.17	- 6 21.5	3.043	3.778	11.1	22.4	2 1	11 42.57	- 2 34.3	2.218	2.989	13.7	22.5
2 11	11 37.76	- 6 9.1	2.929	3.767	9.0	22.2	2 11	11 38.62	- 1 59.7	2.117	2.982	10.8	22.3
2 21	11 31.85	- 5 43.6	2.839	3.756	6.5	22.0	2 21	11 32.69	- 1 8.5	2.039	2.975	7.4	22.1
3 2	11 24.82	- 5 6.0	2.777	3.744	3.9	21.8	3 2	11 25.27	- 0 3.3	1.988	2.967	3.7	21.8
3 12	11 17.22	- 4 19.0	2.746	3.732	2.2	21.7	3 12	11 17.09	+ 1 10.6	1.967	2.959	1.2	21.6
3 22	11 9.67	- 3 26.3	2.745	3.719	3.8	21.8	3 22	11 9.03	+ 2 26.8	1.975	2.950	4.8	21.8
4 1	11 2.80	- 2 32.1	2.774	3.705	6.5	22.0	4 1	11 1.92	+ 3 38.7	2.011	2.940	8.7	22.1
4 11	10 57.13	- 1 41.0	2.831	3.690	9.2	22.1	4 11	10 56.48	+ 4 40.5	2.073	2.931	12.1	22.2
<b>304815</b>	2007 <i>QE</i> <sub>9</sub>		3 9.3 272°07	0°0/ 9.2	17		<b>164351</b>	2005 <i>CA</i> <sub>56</sub>		3 9.3 112°38	0°6/ 8.8	18	
2 1	11 47.28	+ 3 4.8	1.592	2.396	16.8	21.1	2 1	11 47.89	+ 3 26.8	1.776	2.573	15.6	20.8
2 11	11 43.22	+ 3 13.3	1.490	2.377	13.2	20.8	2 11	11 42.90	+ 3 55.9	1.707	2.590	12.0	20.6
2 21	11 36.28	+ 3 36.6	1.410	2.358	8.9	20.5	2 21	11 35.53	+ 4 38.3	1.660	2.607	7.8	20.3
3 2	11 26.99	+ 4 11.3	1.354	2.338	3.9	20.2	3 2	11 26.45	+ 5 29.0	1.639	2.623	3.3	20.1
3 12	11 16.39	+ 4 51.6	1.326	2.318	1.5	19.9	3 12	11 16.70	+ 6 21.3	1.647	2.639	1.6	20.0
3 22	11 5.77	+ 5 30.3	1.324	2.298	6.9	20.2	3 22	11 7.37	+ 7 8.6	1.683	2.654	6.1	20.3
4 1	10 56.52	+ 6 0.5	1.348	2.278	12.0	20.5	4 1	10 59.49	+ 7 45.3	1.747	2.668	10.3	20.6
4 11	10 49.72	+ 6 17.3	1.395	2.257	16.5	20.7	4 11	10 53.78	+ 8 8.1	1.834	2.683	13.8	20.9
<b>410014</b>	2006 <i>WN</i> <sub>101</sub>		3 9.3 122°22	2°2/ 7.2	18		<b>217915</b>	2001 <i>SY</i> <sub>228</sub>		3 9.3 196°07	0°1/ 9.1	15	
2 1	11 48.14	+ 8 44.1	2.128	2.927	13.3	22.1	2 1	11 43.89	+ 1 38.8	2.541	3.317	12.0	22.5
2 11	11 42.68	+ 9 22.5	2.059	2.946	10.1	22.0	2 11	11 39.32	+ 2 18.4	2.442	3.314	9.3	22.3
2 21	11 35.17	+10 8.1	2.015	2.964	6.5	21.8	2 21	11 32.99	+ 3 10.0	2.368	3.310	6.2	22.0
3 2	11 26.24	+10 55.7	1.999	2.981	3.0	21.6	3 2	11 25.35	+ 4 10.1	2.322	3.305	2.6	21.8
3 12	11 16.76	+11 39.0	2.012	2.998	2.9	21.6	3 12	11 17.08	+ 5 13.8	2.307	3.299	1.1	21.7
3 22	11 7.67	+12 13.2	2.056	3.014	6.3	21.8	3 22	11 8.92	+ 6 15.7	2.323	3.293	4.7	21.9
4 1	10 59.82	+12 34.6	2.127	3.030	9.7	22.1	4 1	11 1.63	+ 7 10.7	2.367	3.285	8.1	22.1
4 11	10 53.86	+12 41.7	2.222	3.044	12.6	22.3	4 11	10 55.83	+ 7 55.0	2.438	3.277	11.1	22.3
<b>495406</b>	2014 <i>QY</i> <sub>401</sub>		3 9.3 169°59	1°5/ 7.8	18		<b>274898</b>	2009 <i>SN</i> <sub>86</sub>		3 9.3 111°71	1°5/10.8	18	
2 1	11 47.09	+ 6 6.0	2.078	2.874	13.6	22.7	2 1	11 44.51	- 2 11.6	2.033	2.807	14.7	21.4
2 11	11 42.09	+ 6 46.7	1.994	2.879	10.5	22.5	2 11	11 40.11	- 2 1.6	1.953	2.818	11.6	21.2
2 21	11 34.94	+ 7 37.7	1.935	2.883	6.8	22.2	2 21	11 33.62	- 1 36.2	1.895	2.830	8.0	21.0
3 2	11 26.20	+ 8 34.2	1.902	2.886	2.9	22.0	3 2	11 25.63	- 0 58.0	1.863	2.841	4.1	20.8
3 12	11 16.75	+ 9 29.6	1.900	2.889	2.4	22.0	3 12	11 17.00	- 0 11.4	1.860	2.851	1.6	20.6
3 22	11 7.56	+10 18.0	1.927	2.891	6.2	22.2	3 22	11 8.64	+ 0 37.8	1.886	2.862	4.9	20.9
4 1	10 59.54	+10 54.5	1.982	2.892	9.9	22.4	4 1	11 1.45	+ 1 23.9	1.939	2.872	8.7	21.1
4 11	10 53.42	+11 16.3	2.061	2.892	13.2	22.6	4 11	10 56.10	+ 2 2.0	2.018	2.882	12.1	21.4
<b>520033</b>	2013 <i>VF</i> <sub>28</sub>		3 9.3 213°56	5°1/15.2	17		<b>131492</b>	2001 <i>SP</i> <sub>181</sub>		3 9.3 56°25	1°8/ 7.4	18	
2 1	11 42.32	-14 19.8	2.448	3.152	14.3	22.0	2 1	11 40.70	+ 5 43.6	1.975	2.785	13.7	19.1
2 11	11 38.31	-14 32.2	2.342	3.146	12.1	21.9	2 11	11 37.16	+ 6 41.3	1.911	2.804	10.4	18.9
2 21	11 32.44	-14 25.3	2.257	3.140	9.6	21.7	2 21	11 31.65	+ 7 50.0	1.870	2.822	6.7	18.7
3 2	11 25.15	-13 58.2	2.196	3.133	7.0	21.5	3 2	11 24.76	+ 9 3.6	1.857	2.841	2.9	18.5
3 12	11 17.13	-13 12.4	2.162	3.126	5.3	21.4	3 12	11 17.33	+10 15.0	1.872	2.860	2.6	18.5
3 22	11 9.19	-12 11.8	2.157	3.119	5.7	21.4	3 22	11 10.26	+11 17.5	1.916	2.880	6.2	18.8
4 1	11 2.13	-11 2.0	2.180	3.111	8.0	21.5	4 1	11 4.36	+12 5.9	1.987	2.899	9.8	19.0
4 11	10 56.61	- 9 49.8	2.229	3.103	10.7	21.7	4 11	11 0.22	+12 37.6	2.081	2.918	12.8	19.3
<b>7652</b>	1991 <i>RL</i> <sub>5</sub>		3 9.3 95°43	2°5/ 6.7	18		<b>157592</b>	2005 <i>UK</i> <sub>456</sub>		3 9.3 30°28	2°2/ 7.9	18	
2 1	11 45.62	+11 8.8	2.358	3.162	12.0	18.0	2 1	11 48.75	+ 9 29.8	1.537	2.356	16.5	19.6
2 11	11 40.56	+11 41.0	2.292	3.181	9.1	17.8	2 11	11 43.99	+ 9 31.4	1.467	2.364	12.7	19.4
2 21	11 33.69	+12 17.6	2.250	3.200	5.9	17.7	2 21	11 36.45	+ 9 40.1	1.419	2.372	8.3	19.1
3 2	11 25.58	+12 53.9	2.237	3.218	3.1	17.5	3 2	11 26.91	+ 9 50.7	1.397	2.380	3.7	18.9
3 12	11 17.02	+13 24.8	2.254	3.236	3.2	17.5	3 12	11 16.55	+ 9 57.3	1.401	2.390	3.0	18.8
3 22	11 8.81	+13 46.3	2.300	3.254	6.1	17.7	3 22	11 6.68	+ 9 55.0	1.432	2.399	7.4	19.1
4 1	11 1.70	+13 55.7	2.374	3.272	9.1	18.0	4 1	10 58.49	+ 9 40.7	1.489	2.410	11.8	19.4
4 11	10 56.26	+13 52.2	2.472	3.289	11.7	18.2	4 11	10 52.82	+ 9 13.3	1.568	2.420	15.5	19.6
<b>33569</b>	Nikhilgopal		3 9.3 322°59	2°4/10.9	18		<b>327968</b>	2007 <i>EB</i> <sub>210</sub>		3 9.3 69°15	1°9/ 7.5	18	
2 1	11 43.77	- 1 54.5	1.359	2.164	19.1	18.4	2 1	11 42.15	+ 5 40.7	1.766	2.580	14.9	20.7
2 11	11 40.80	- 2 8.9	1.271	2.154	15.3	18.1	2 11	11 38.64	+ 6 35.3	1.691	2.586	11.4	20.5
2 21	11 34.80	- 2 3.3	1.202	2.144	10.8	17.8	2 21	11 32.84	+ 7 42.9	1.639	2.591	7.4	20.3
3 2	11 26.37	- 1 39.0	1.156	2.135	5.7	17.5	3 2	11 25.35	+ 8 57.5	1.612	2.597	3.2	20.0
3 12	11 16.66	- 1 0.5	1.135	2.126	2.5	17.3	3 12	11 17.12	+10 10.7	1.614	2.603	2.8	20.0
3 22	11 7.08	- 0 15.2	1.139	2.118	6.8	17.5	3 22	11 9.19	+11 14.8	1.644	2.608	6.9	20.3
4 1	10 59.09	+ 0 28.4	1.168	2.111	12.1	17.8	4 1	11 2.55	+12 3.7	1.699	2.614	10.9	20.5
4 11	10 53.78	+ 1 2.6	1.217	2.104	16.8	18.0	4 11	10 57.94	+12 34.1	1.778	2.620	14.4	20.8
<b>472855</b>	2015 <i>FC</i> <sub>293</sub>		3 9.3 240°18	0°3/ 9.7	17		<b>214545</b>	2006 <i>OV</i> <sub>17</sub>		3 9.3 154°06	3°4/ 6.2	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>135345</b>	2001 <i>TS</i> <sub>39</sub>		3 9.3 115°68	2°8/ 6.2 18			<b>163561</b>	2002 <i>TN</i> <sub>125</sub>		3 9.3 125°88	4°3/14.8 18		
2 1	11 44.47	+12 29.8	2.514	3.319	11.3	20.2	2 1	11 41.51	-13 6.2	2.540	3.250	13.7	20.2
2 11	11 39.66	+13 2.3	2.439	3.329	8.6	20.0	2 11	11 37.49	-13 6.4	2.451	3.261	11.4	20.0
2 21	11 33.11	+13 38.3	2.390	3.339	5.7	19.9	2 21	11 31.78	-12 48.0	2.382	3.272	8.8	19.9
3 2	11 25.36	+14 13.2	2.370	3.348	3.2	19.7	3 2	11 24.84	-12 11.2	2.339	3.283	6.2	19.7
3 12	11 17.13	+14 42.1	2.379	3.358	3.5	19.7	3 12	11 17.37	-11 18.6	2.323	3.293	4.5	19.6
3 22	11 9.17	+15 1.3	2.417	3.367	6.1	19.9	3 22	11 10.08	-10 14.5	2.337	3.303	5.0	19.7
4 1	11 2.21	+15 8.4	2.484	3.376	8.9	20.1	4 1	11 3.69	-9 4.5	2.380	3.313	7.3	19.8
4 11	10 56.80	+15 2.3	2.574	3.384	11.5	20.3	4 11	10 58.76	-7 54.8	2.449	3.322	9.9	20.0
<b>498712</b>	2008 <i>TE</i> <sub>88</sub>		3 9.3 156°77	1°7/11.3 17			<b>112400</b>	2002 <i>NG</i> <sub>36</sub>		3 9.3 126°13	5°4/15.0 18		
2 1	11 40.23	-5 0.2	2.240	3.005	13.8	21.7	2 1	11 43.20	-13 22.8	2.265	2.979	15.0	20.2
2 11	11 36.73	-4 21.4	2.149	3.008	11.0	21.5	2 11	11 39.07	-13 49.3	2.173	2.983	12.7	20.0
2 21	11 31.39	-3 24.5	2.080	3.010	7.7	21.3	2 21	11 32.98	-13 56.4	2.101	2.988	10.0	19.8
3 2	11 24.69	-2 12.3	2.038	3.013	4.1	21.1	3 2	11 25.42	-13 43.4	2.053	2.993	7.3	19.7
3 12	11 17.36	-0 49.9	2.024	3.015	1.7	20.9	3 12	11 17.15	-13 11.5	2.032	2.997	5.5	19.6
3 22	11 10.22	+0 35.9	2.041	3.018	4.6	21.1	3 22	11 9.04	-12 24.8	2.039	3.002	6.0	19.6
4 1	11 4.03	+1 58.1	2.086	3.020	8.1	21.4	4 1	11 1.93	-11 28.7	2.074	3.006	8.3	19.8
4 11	10 59.43	+3 10.9	2.157	3.021	11.4	21.6	4 11	10 56.51	-10 29.9	2.134	3.010	11.0	19.9
<b>131133</b>	2001 <i>BA</i> <sub>41</sub>		3 9.3 69°45	3°9/13.0 18			<b>27987</b>	1997 <i>VR</i> <sub>3</sub>		3 9.3 148°55	0°4/ 9.7 18		
2 1	11 43.86	-7 56.9	1.914	2.668	16.1	20.0	2 1	11 44.77	+0 27.7	2.295	3.072	13.1	19.5
2 11	11 39.77	-8 12.0	1.835	2.680	13.2	19.8	2 11	11 40.09	+0 55.8	2.211	3.082	10.2	19.3
2 21	11 33.49	-8 7.8	1.777	2.693	9.7	19.6	2 21	11 33.53	+1 36.8	2.151	3.091	6.8	19.1
3 2	11 25.62	-7 44.8	1.743	2.706	6.2	19.4	3 2	11 25.61	+2 27.3	2.118	3.100	3.1	18.9
3 12	11 17.03	-6 7.1	1.737	2.719	3.9	19.3	3 12	11 17.10	+3 22.3	2.115	3.108	1.0	18.7
3 22	11 8.74	-7 16.2	1.758	2.732	5.5	19.5	3 22	11 8.82	+4 16.5	2.142	3.115	4.8	19.0
4 1	11 1.68	-5 24.6	1.807	2.745	8.9	19.7	4 1	11 1.58	+5 4.6	2.198	3.122	8.3	19.3
4 11	10 56.56	-4 34.9	1.880	2.758	12.2	19.9	4 11	10 55.99	+5 42.7	2.279	3.129	11.4	19.5
<b>254038</b>	2004 <i>GB</i> <sub>11</sub>		3 9.3 244°53	8°3/25.1 17			<b>123060</b>	2000 <i>SZ</i> <sub>301</sub>		3 9.3 96°81	2°1/11.5 18		
2 1	11 49.28	+37 5.5	3.029	3.810	10.2	20.8	2 1	11 43.69	-4 21.2	2.012	2.780	15.0	20.5
2 11	11 43.50	+38 16.1	2.958	3.792	9.0	20.7	2 11	11 39.49	-4 7.5	1.936	2.795	12.0	20.3
2 21	11 35.74	+39 17.2	2.911	3.774	8.3	20.6	2 21	11 33.23	-3 36.5	1.881	2.811	8.4	20.1
3 2	11 26.54	+40 2.0	2.891	3.756	8.4	20.6	3 2	11 25.50	-2 50.5	1.852	2.826	4.5	19.9
3 12	11 16.70	+40 25.2	2.897	3.737	9.3	20.6	3 12	11 17.15	-1 54.3	1.851	2.841	2.1	19.7
3 22	11 7.08	+40 24.5	2.927	3.717	10.6	20.7	3 22	11 9.11	-0 54.0	1.879	2.856	4.9	20.0
4 1	10 58.53	+39 59.7	2.980	3.697	12.0	20.7	4 1	11 2.24	+0 4.0	1.935	2.870	8.6	20.2
4 11	10 51.71	+39 13.3	3.052	3.677	13.4	20.8	4 11	10 57.20	+0 54.2	2.016	2.884	11.9	20.4
<b>143642</b>	2003 <i>NV</i> <sub>6</sub>		3 9.3 193°54	1°9/ 7.6 18			<b>223778</b>	2004 <i>SK</i> <sub>21</sub>		3 9.4 116°15	1°9/11.1 18		
2 1	11 46.87	+6 38.9	1.959	2.761	14.2	20.5	2 1	11 44.23	-2 49.1	1.985	2.759	15.0	20.7
2 11	11 42.14	+7 21.7	1.872	2.759	10.9	20.2	2 11	11 40.02	-2 46.5	1.900	2.765	11.9	20.5
2 21	11 35.11	+8 15.5	1.807	2.757	7.1	20.0	2 21	11 33.67	-2 28.0	1.837	2.770	8.3	20.3
3 2	11 26.35	+9 14.9	1.770	2.754	3.1	19.8	3 2	11 25.72	-1 55.7	1.799	2.776	4.4	20.1
3 12	11 16.76	+10 13.1	1.762	2.750	2.7	19.7	3 12	11 17.06	-1 13.7	1.790	2.781	2.0	19.9
3 22	11 7.38	+11 3.3	1.783	2.746	6.6	20.0	3 22	11 8.63	-0 27.4	1.809	2.786	5.1	20.1
4 1	10 59.22	+11 40.2	1.831	2.741	10.6	20.2	4 1	11 1.36	+0 17.1	1.856	2.791	8.9	20.4
4 11	10 53.06	+12 0.9	1.903	2.735	14.1	20.4	4 11	10 55.97	+0 54.5	1.928	2.796	12.4	20.6
<b>322419</b>	2011 <i>SR</i> <sub>106</sub>		3 9.3 121°71	1°7/10.9 18			<b>84497</b>	2002 <i>TR</i> <sub>283</sub>		3 9.4 63°43	2°7/ 6.9 18		
2 1	11 46.59	-2 54.8	1.733	2.511	16.7	21.5	2 1	11 46.35	+10 53.0	2.019	2.829	13.5	19.2
2 11	11 42.07	-2 38.3	1.656	2.524	13.2	21.3	2 11	11 41.40	+11 19.3	1.957	2.850	10.2	19.0
2 21	11 35.10	-2 2.9	1.601	2.537	9.1	21.1	2 21	11 34.38	+11 50.8	1.919	2.870	6.7	18.8
3 2	11 26.34	-1 11.5	1.572	2.550	4.6	20.8	3 2	11 25.95	+12 22.2	1.909	2.890	3.3	18.6
3 12	11 16.81	-0 10.0	1.570	2.561	1.8	20.6	3 12	11 17.01	+12 47.8	1.927	2.911	3.4	18.7
3 22	11 7.64	+0 54.4	1.596	2.573	5.6	20.9	3 22	11 8.52	+13 3.3	1.974	2.931	6.6	18.9
4 1	10 59.88	+1 54.0	1.650	2.584	9.9	21.2	4 1	11 1.33	+13 6.1	2.048	2.952	9.9	19.2
4 11	10 54.31	+2 42.9	1.727	2.594	13.6	21.4	4 11	10 56.04	+12 55.3	2.145	2.972	12.9	19.4
<b>473503</b>	2015 <i>XE</i> <sub>132</sub>		3 9.3 346°78	4°3/12.4 18			<b>131440</b>	2001 <i>QB</i> <sub>71</sub>		3 9.4 171°32	1°5/11.3 18		
2 1	11 42.56	-6 22.4	1.289	2.083	20.5	21.0	2 1	11 42.04	-3 16.4	2.961	3.713	11.0	20.0
2 11	11 39.96	-6 42.1	1.207	2.079	16.8	20.7	2 11	11 37.63	-3 4.9	2.865	3.717	8.8	20.2
2 21	11 34.30	-6 36.3	1.144	2.076	12.3	20.4	2 21	11 31.75	-2 41.9	2.793	3.720	6.1	19.9
3 2	11 26.19	-6 4.6	1.102	2.073	7.5	20.1	3 2	11 24.82	-2 9.2	2.748	3.722	3.3	19.7
3 12	11 16.83	-5 11.4	1.084	2.071	4.3	19.9	3 12	11 17.40	-1 29.6	2.734	3.724	1.5	19.5
3 22	11 7.70	-4 4.7	1.090	2.069	7.1	20.1	3 22	11 10.12	-0 46.9	2.751	3.726	3.7	19.7
4 1	11 0.24	-2 55.0	1.121	2.068	12.0	20.4	4 1	11 3.57	-0 5.0	2.797	3.727	6.5	19.9
4 11	10 55.52	-1 52.8	1.172	2.068	16.6	20.6	4 11	10 58.26	+0 32.4	2.870	3.727	9.1	20.1
<b>186141</b>	2001 <i>TO</i> <sub>217</sub>		3 9.3 352°19	3°4/12.2 18			<b>34883</b>	2001 <i>UQ</i> <sub>94</sub>		3 9.4 126°79	9°5/25.3 18		
2 1	11 41.84	-5 50.9	1.616	2.396	17.6	19.7	2 1	11 46.49	+35 25.3	2.400	3.201	11.9	18.9
2 11	11 38.76	-5 56.7	1.529	2.394	14.3	19.4	2 11	11 41.69	+36 55.5	2.353	3.204	10.4	18.9
2 21	11 33.15	-5 41.0	1.463	2.392	10.3	19.2	2 21	11 34.68	+38 14.4	2.330	3.207	9.6	18.8
3 2	11 25.59	-5 4.7	1.419	2.391	6.1	18.9	3 2	11 26.13	+39 13.8	2.332	3.210	9.7	18.8
3 12	11 17.07	-4 12.0	1.402	2.390	3.4	18.8	3 12	11 16.95	+39 47.7	2.360	3.213	10.6	18.9
3 22	11 8.76	-3 9.7	1.411	2.389	6.0	18.9	3 22	11 8.18	+39 53.5	2.410	3.216	12.1	19.0
4 1	11 1.78	-2 6.3	1.446	2.389	10.2	19.1	4 1	11 0.73	+39 31.7	2.482	3.218	13.7	19.1
4 11	10 57.03	-1 9.7	1.504	2.389	14.3	19.4	4 11	10 55.26	+38 45.6	2.572	3.221	15.2	19.2
<b>195408</b>	2002 <i>GW</i> <sub>37</sub>		3 9.3 272°45	0°8/ 8.6 18			<b>385870</b>	2006 <i>RL</i> <sub>66</sub>		3 9.4 214°14	0°4/ 8.9 17		
2 1	11 43.60	+4 31.4	1.975	2.776	14.1								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>417398</b>	2006 <i>HC</i> <sub>154</sub>		3 9.4 163°77	4°0/ 4.6 17			<b>415581</b>	2014 <i>QM</i> <sub>300</sub>		3 9.4 264°21	0°9/ 8.7 16		
2 1	11 44.34	+15 51.5	2.518	3.329	11.1	21.2	2 1	11 46.36	+ 4 6.5	1.625	2.432	16.3	21.5
2 11	11 39.66	+16 45.0	2.443	3.334	8.5	21.0	2 11	11 42.43	+ 4 30.7	1.527	2.416	12.8	21.2
2 21	11 33.20	+17 40.8	2.392	3.338	5.9	20.9	2 21	11 35.73	+ 5 9.8	1.450	2.400	8.5	20.9
3 2	11 25.47	+18 33.0	2.371	3.341	4.1	20.8	3 2	11 26.81	+ 5 59.4	1.399	2.383	3.6	20.6
3 12	11 17.20	+19 16.0	2.378	3.344	4.8	20.8	3 12	11 16.68	+ 6 52.7	1.375	2.366	2.0	20.4
3 22	11 9.17	+19 45.6	2.415	3.347	7.1	21.0	3 22	11 6.61	+ 7 41.8	1.378	2.349	7.1	20.7
4 1	11 2.13	+19 59.3	2.479	3.349	9.8	21.1	4 1	10 57.87	+ 8 19.6	1.407	2.332	12.0	20.9
4 11	10 56.65	+19 56.6	2.566	3.351	12.2	21.3	4 11	10 51.51	+ 8 41.4	1.458	2.314	16.3	21.1
<b>522899</b>	2016 <i>PM</i> <sub>104</sub>		3 9.4 149°16	1°1/ 7.9 17			<b>502009</b>	2015 <i>AO</i> <sub>55</sub>		3 9.4 98°36	3°7/ 5.6 17		
2 1	11 40.60	+ 6 35.2	2.857	3.651	10.4	22.1	2 1	11 43.15	+11 25.7	1.900	2.721	13.8	21.8
2 11	11 36.57	+ 7 3.6	2.771	3.654	7.9	21.9	2 11	11 39.29	+12 30.8	1.828	2.726	10.5	21.6
2 21	11 31.08	+ 7 38.7	2.709	3.657	5.1	21.7	2 21	11 33.22	+13 43.4	1.780	2.732	6.9	21.3
3 2	11 24.53	+ 8 17.3	2.676	3.660	2.2	21.5	3 2	11 25.55	+14 56.2	1.758	2.737	4.1	21.2
3 12	11 17.53	+ 8 55.2	2.673	3.663	1.7	21.5	3 12	11 17.19	+16 1.1	1.766	2.743	4.7	21.2
3 22	11 10.70	+ 9 28.7	2.701	3.665	4.6	21.7	3 22	11 9.14	+16 51.6	1.800	2.748	7.9	21.4
4 1	11 4.63	+ 9 54.6	2.757	3.668	7.4	21.9	4 1	11 2.33	+17 23.2	1.861	2.754	11.4	21.6
4 11	10 59.83	+10 10.7	2.838	3.670	9.9	22.0	4 11	10 57.48	+17 34.6	1.944	2.759	14.5	21.9
<b>436732</b>	2011 <i>UV</i> <sub>206</sub>		3 9.4 248°33	8°8/24.9 17			<b>190043</b>	2004 <i>RY</i> <sub>112</sub>		3 9.4 211°22	4°9/13.9 17		
2 1	11 50.16	+37 52.8	2.880	3.660	10.6	22.0	2 1	11 46.40	-10 35.6	2.260	2.983	14.8	20.5
2 11	11 44.30	+39 4.0	2.811	3.643	9.5	21.9	2 11	11 41.63	-11 11.1	2.158	2.979	12.4	20.3
2 21	11 36.34	+40 4.7	2.766	3.626	8.9	21.8	2 21	11 34.75	-11 29.9	2.077	2.974	9.6	20.1
3 2	11 26.85	+40 47.7	2.747	3.608	8.9	21.8	3 2	11 26.26	-11 30.9	2.021	2.969	6.7	19.9
3 12	11 16.70	+41 7.7	2.754	3.591	9.8	21.8	3 12	11 16.92	-11 15.0	1.993	2.964	4.9	19.8
3 22	11 6.81	+41 2.1	2.785	3.572	11.1	21.9	3 22	11 7.65	-10 45.3	1.994	2.959	5.9	19.8
4 1	10 58.08	+40 31.3	2.839	3.554	12.6	22.0	4 1	10 59.37	-10 6.8	2.022	2.953	8.6	20.0
4 11	10 51.21	+39 37.9	2.910	3.535	14.0	22.1	4 11	10 52.83	- 9 25.5	2.077	2.947	11.5	20.1
<b>378362</b>	2007 <i>LZ</i> <sub>15</sub>		3 9.4 296°79	4°6/14.2 17			<b>263891</b>	2009 <i>FY</i> <sub>13</sub>		3 9.4 257°99	5°0/ 5.1 18		
2 1	11 39.03	-11 51.7	1.915	2.658	16.5	21.2	2 1	11 46.88	+14 21.8	1.673	2.499	15.1	20.5
2 11	11 36.33	-11 40.1	1.810	2.646	13.8	21.0	2 11	11 42.67	+15 18.8	1.591	2.490	11.7	20.3
2 21	11 31.45	-11 3.5	1.726	2.634	10.5	20.8	2 21	11 35.75	+16 22.0	1.531	2.481	8.0	20.1
3 2	11 24.86	-10 1.6	1.665	2.622	7.1	20.5	3 2	11 26.75	+17 23.0	1.497	2.472	5.3	19.9
3 12	11 17.38	- 8 38.1	1.631	2.610	4.7	20.3	3 12	11 16.75	+18 12.7	1.490	2.463	6.1	19.9
3 22	11 9.97	- 6 59.5	1.624	2.599	5.8	20.4	3 22	11 7.00	+18 43.8	1.510	2.454	9.6	20.1
4 1	11 3.61	- 5 14.9	1.645	2.588	9.2	20.6	4 1	10 58.71	+18 52.3	1.555	2.445	13.4	20.3
4 11	10 59.12	- 3 34.2	1.691	2.576	12.9	20.8	4 11	10 52.78	+18 37.9	1.621	2.435	16.9	20.5
<b>502293</b>	2015 <i>BK</i> <sub>142</sub>		3 9.4 216°30	3°8/ 5.4 17			<b>57712</b>	2001 <i>UJ</i> <sub>123</sub>		3 9.4 243°65	0°8/ 8.5 18		
2 1	11 42.91	+12 24.5	2.042	2.861	13.0	21.6	2 1	11 43.45	+ 3 34.5	2.080	2.875	13.6	19.6
2 11	11 39.01	+13 24.1	1.963	2.860	9.9	21.4	2 11	11 39.50	+ 4 13.0	1.979	2.863	10.6	19.3
2 21	11 33.01	+14 30.0	1.908	2.859	6.6	21.2	2 21	11 33.42	+ 5 4.7	1.902	2.850	7.0	19.1
3 2	11 25.45	+15 35.7	1.880	2.857	4.0	21.0	3 2	11 25.70	+ 6 5.5	1.853	2.837	2.9	18.8
3 12	11 17.20	+16 33.6	1.881	2.856	4.7	21.1	3 12	11 17.13	+ 7 9.2	1.832	2.823	1.7	18.7
3 22	11 9.18	+17 17.7	1.909	2.855	7.7	21.2	3 22	11 8.65	+ 8 9.2	1.840	2.809	5.9	18.9
4 1	11 2.30	+17 44.1	1.964	2.853	11.1	21.4	4 1	11 1.18	+ 8 59.6	1.876	2.794	9.8	19.1
4 11	10 57.25	+17 51.3	2.041	2.852	14.0	21.6	4 11	10 55.51	+ 9 36.0	1.935	2.780	13.4	19.3
<b>247947</b>	2003 <i>YP</i> <sub>20</sub>		3 9.4 13°08	5°0/ 3.9 18			<b>118168</b>	1981 <i>EQ</i> <sub>37</sub>		3 9.4 76°19	1°2/10.4 18		
2 1	11 41.88	+15 56.2	2.016	2.842	12.8	20.8	2 1	11 44.42	- 0 37.9	1.819	2.607	15.6	19.8
2 11	11 38.25	+17 5.7	1.944	2.843	9.9	20.7	2 11	11 40.34	- 0 30.4	1.740	2.614	12.3	19.6
2 21	11 32.50	+18 18.7	1.896	2.844	6.9	20.5	2 21	11 33.97	- 0 7.4	1.681	2.622	8.4	19.4
3 2	11 25.23	+19 27.7	1.875	2.845	5.1	20.4	3 2	11 25.90	+ 0 28.5	1.649	2.629	4.0	19.2
3 12	11 17.29	+20 25.0	1.883	2.847	6.0	20.4	3 12	11 17.08	+ 1 12.0	1.644	2.636	1.4	19.0
3 22	11 9.61	+21 4.8	1.917	2.848	8.7	20.6	3 22	11 8.55	+ 1 57.2	1.667	2.643	5.4	19.3
4 1	11 3.11	+21 23.8	1.977	2.850	11.7	20.8	4 1	11 1.30	+ 2 37.8	1.717	2.651	9.6	19.5
4 11	10 58.47	+21 21.7	2.058	2.852	14.5	21.0	4 11	10 56.08	+ 3 9.0	1.791	2.658	13.2	19.8
<b>488637</b>	2002 <i>XD</i> <sub>69</sub>		3 9.4 51°41	6°1/ 5.4 15			<b>136063</b>	2002 <i>XC</i> <sub>78</sub>		3 9.4 199°98	6°2/16.4 18		
2 1	12 0.06	+22 19.4	1.841	2.643	14.9	20.7	2 1	11 42.56	-17 7.7	2.502	3.185	14.5	20.2
2 11	11 51.69	+22 36.6	1.804	2.684	11.6	20.5	2 11	11 38.52	-17 40.2	2.400	3.183	12.5	20.1
2 21	11 40.88	+22 47.8	1.790	2.724	8.4	20.4	2 21	11 32.62	-17 53.4	2.318	3.181	10.2	19.9
3 2	11 28.61	+22 46.1	1.805	2.765	6.3	20.4	3 2	11 25.31	-17 45.9	2.260	3.179	7.9	19.7
3 12	11 16.17	+22 26.8	1.849	2.805	6.7	20.5	3 12	11 17.30	-17 18.1	2.229	3.177	6.4	19.6
3 22	11 4.76	+21 48.9	1.921	2.846	9.1	20.7	3 22	11 9.37	-16 32.9	2.225	3.175	6.5	19.6
4 1	10 55.34	+20 54.0	2.021	2.886	11.9	20.9	4 1	11 2.31	-15 35.4	2.249	3.173	8.2	19.7
4 11	10 48.46	+19 45.6	2.143	2.925	14.4	21.2	4 11	10 56.80	-14 31.9	2.299	3.170	10.5	19.9
<b>396717</b>	2002 <i>VJ</i> <sub>147</sub>		3 9.4 95°72	2°3/11.1 18			<b>431463</b>	2007 <i>RZ</i> <sub>287</sub>		3 9.4 165°63	0°7/10.3 17		
2 1	11 47.16	- 3 46.4	1.435	2.223	19.0	21.4	2 1	11 40.30	- 1 57.4	2.535	3.305	12.2	22.2
2 11	11 42.95	- 3 35.1	1.367	2.239	15.2	21.2	2 11	11 36.57	- 1 16.9	2.443	3.308	9.6	22.1
2 21	11 35.91	- 3 1.1	1.318	2.254	10.5	20.9	2 21	11 31.21	- 0 22.3	2.374	3.311	6.5	21.9
3 2	11 26.76	- 2 7.3	1.292	2.269	5.5	20.7	3 2	11 24.65	+ 0 43.4	2.334	3.314	3.1	21.7
3 12	11 16.75	- 1 0.5	1.293	2.284	2.3	20.5	3 12	11 17.55	+ 1 55.4	2.323	3.316	1.0	21.5
3 22	11 7.20	+ 0 10.3	1.321	2.299	6.3	20.8	3 22	11 10.60	+ 3 8.0	2.343	3.318	4.2	21.7
4 1	10 59.36	+ 1 16.1	1.374	2.313	11.0	21.1	4 1	11 4.50	+ 4 15.8	2.392	3.319	7.6	21.9
4 11	10 54.09	+ 2 9.5	1.451	2.327	15.2	21.4	4 11	10 59.80	+ 5 14.1	2.466	3.320	10.5	22.1
<b>501609</b>	2014 <i>QU</i> <sub>403</sub>		3 9.4 262°48	3°8/12.4 17			<b>380086</b>	2013 <i>SE</i> <sub>51</sub>		3 9.4 167°78	0°7/10.2 17		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>367912</b>	2012 <i>BN</i> <sub>94</sub>		3 9.4 318°52	0°6/ 9.8 17			<b>404282</b>	2013 <i>EH</i> <sub>92</sub>		3 9.4 353°04	1°6/10.5 18		
2 1	11 42.24	+ 0 45.4	1.474	2.284	17.5	20.9	2 1	11 44.29	- 0 27.4	1.314	2.125	19.2	20.2
2 11	11 39.42	+ 0 57.3	1.383	2.272	13.9	20.6	2 11	11 41.23	- 0 33.5	1.235	2.122	15.3	19.9
2 21	11 33.82	+ 1 27.6	1.313	2.260	9.4	20.3	2 21	11 35.11	- 0 20.0	1.175	2.120	10.5	19.6
3 2	11 26.01	+ 2 13.2	1.266	2.249	4.3	20.0	3 2	11 26.59	+ 0 10.8	1.137	2.119	5.2	19.3
3 12	11 17.04	+ 3 7.6	1.245	2.238	1.3	19.7	3 12	11 16.90	+ 0 53.0	1.125	2.117	1.8	19.1
3 22	11 8.19	+ 4 2.8	1.250	2.227	6.7	20.0	3 22	11 7.48	+ 1 38.5	1.138	2.117	6.9	19.4
4 1	11 0.77	+ 4 50.5	1.280	2.217	11.8	20.3	4 1	10 59.76	+ 2 19.0	1.175	2.117	12.1	19.7
4 11	10 55.79	+ 5 24.2	1.332	2.208	16.3	20.5	4 11	10 54.77	+ 2 47.7	1.233	2.117	16.8	20.0
<b>415073</b>	2012 <i>BZ</i> <sub>67</sub>		3 9.4 108°41	0°1/ 9.3 18			<b>444379</b>	2005 <i>YO</i> <sub>92</sub>		3 9.4 99°32	4°2/12.9 18		
2 1	11 44.16	+ 1 15.3	1.692	2.492	16.1	21.8	2 1	11 49.98	- 8 25.2	1.650	2.402	18.4	22.2
2 11	11 40.31	+ 1 51.7	1.615	2.499	12.5	21.6	2 11	11 44.73	- 8 35.3	1.583	2.428	15.0	22.1
2 21	11 34.03	+ 2 45.0	1.560	2.507	8.3	21.3	2 21	11 36.88	- 8 22.6	1.536	2.452	11.0	21.9
3 2	11 25.96	+ 3 50.3	1.531	2.514	3.6	21.1	3 2	11 27.18	- 7 47.9	1.513	2.477	6.9	21.7
3 12	11 17.09	+ 5 0.4	1.529	2.522	1.4	20.9	3 12	11 16.75	- 6 55.4	1.517	2.500	4.2	21.6
3 22	11 8.54	+ 6 7.1	1.555	2.529	6.1	21.3	3 22	11 6.82	- 5 52.4	1.549	2.523	6.1	21.7
4 1	11 1.37	+ 7 3.4	1.608	2.536	10.5	21.5	4 1	10 58.50	- 4 47.0	1.608	2.545	9.8	22.0
4 11	10 56.35	+ 7 44.3	1.684	2.542	14.3	21.8	4 11	10 52.56	- 3 47.2	1.692	2.567	13.5	22.3
<b>377153</b>	2003 <i>SR</i> <sub>137</sub>		3 9.4 110°57	2°1/ 7.3 18			<b>217047</b>	2001 <i>QX</i> <sub>189</sub>		3 9.4 159°66	5°5/15.4 16		
2 1	11 45.82	+ 9 19.1	2.178	2.982	12.8	20.9	2 1	11 45.05	-14 57.6	2.353	3.050	14.9	21.0
2 11	11 40.99	+ 9 46.1	2.103	2.992	9.8	20.7	2 11	11 40.46	-15 15.2	2.258	3.057	12.7	20.8
2 21	11 34.18	+10 19.4	2.051	3.001	6.4	20.5	2 21	11 33.90	-15 12.5	2.184	3.063	10.1	20.7
3 2	11 25.95	+10 54.4	2.027	3.010	3.0	20.3	3 2	11 25.89	-14 48.8	2.134	3.068	7.4	20.5
3 12	11 17.14	+11 25.7	2.033	3.019	2.8	20.3	3 12	11 17.18	-14 5.5	2.112	3.073	5.6	20.4
3 22	11 8.63	+11 48.8	2.068	3.028	6.1	20.6	3 22	11 8.63	-13 6.7	2.118	3.078	6.0	20.4
4 1	11 1.27	+12 0.3	2.130	3.036	9.5	20.8	4 1	11 1.08	-11 58.4	2.152	3.082	8.2	20.6
4 11	10 55.69	+11 58.8	2.216	3.045	12.5	21.0	4 11	10 55.20	-10 47.7	2.213	3.085	10.9	20.8
<b>437033</b>	2012 <i>TH</i> <sub>306</sub>		3 9.4 96°97	1°2/ 8.2 17			<b>101698</b>	1999 <i>CZ</i> <sub>137</sub>		3 9.4 303°42	0°0/ 9.2 17		
2 1	11 45.24	+ 7 11.5	2.261	3.059	12.6	20.9	2 1	11 41.22	+ 1 57.4	2.109	2.903	13.5	20.8
2 11	11 40.51	+ 7 25.9	2.180	3.065	9.7	20.8	2 11	11 37.71	+ 2 20.0	2.014	2.895	10.6	20.6
2 21	11 33.85	+ 7 47.5	2.123	3.071	6.3	20.6	2 21	11 32.20	+ 2 55.6	1.942	2.887	7.0	20.4
3 2	11 25.81	+ 8 12.7	2.093	3.077	2.7	20.3	3 2	11 25.18	+ 3 40.7	1.897	2.880	3.1	20.1
3 12	11 17.19	+ 8 36.7	2.093	3.083	1.9	20.3	3 12	11 17.43	+ 4 30.3	1.880	2.872	1.1	19.9
3 22	11 8.83	+ 8 55.4	2.123	3.089	5.4	20.5	3 22	11 9.80	+ 5 18.8	1.891	2.865	5.2	20.2
4 1	11 1.54	+ 9 5.5	2.180	3.095	8.9	20.7	4 1	11 3.18	+ 6 0.6	1.931	2.858	9.1	20.4
4 11	10 55.95	+ 9 5.0	2.262	3.101	11.9	21.0	4 11	10 58.25	+ 6 31.5	1.994	2.851	12.5	20.6
<b>461531</b>	2003 <i>SY</i> <sub>359</sub>		3 9.4 81°20	2°5/ 7.5 18			<b>140998</b>	2001 <i>WE</i> <sub>29</sub>		3 9.4 114°26	2°6/ 6.1 18		
2 1	11 49.08	+ 8 58.2	1.552	2.369	16.5	21.7	2 1	11 41.52	+10 24.5	2.542	3.349	11.1	20.0
2 11	11 44.25	+ 9 23.2	1.484	2.379	12.7	21.5	2 11	11 37.46	+11 18.0	2.469	3.360	8.4	19.9
2 21	11 36.68	+ 9 57.1	1.438	2.390	8.3	21.3	2 21	11 31.76	+12 17.1	2.421	3.371	5.5	19.7
3 2	11 27.11	+10 33.7	1.417	2.401	3.8	21.0	3 2	11 24.91	+13 16.9	2.402	3.382	2.9	19.6
3 12	11 16.74	+11 5.7	1.424	2.412	3.4	21.0	3 12	11 17.58	+14 11.9	2.413	3.393	3.3	19.6
3 22	11 6.85	+11 26.7	1.458	2.422	7.7	21.3	3 22	11 10.48	+14 57.2	2.453	3.403	5.9	19.8
4 1	10 58.64	+11 32.8	1.518	2.433	12.0	21.6	4 1	11 4.30	+15 29.5	2.521	3.413	8.8	20.0
4 11	10 52.92	+11 22.5	1.599	2.443	15.7	21.8	4 11	10 59.57	+15 47.3	2.613	3.423	11.3	20.2
<b>496353</b>	2013 <i>QR</i> <sub>65</sub>		3 9.4 187°10	5°3/15.3 17			<b>89102</b>	2001 <i>TS</i> <sub>199</sub>		3 9.4 233°39	5°1/ 4.8 18		
2 1	11 44.26	-14 40.1	2.459	3.156	14.4	22.5	2 1	11 46.67	+15 48.5	1.812	2.635	14.2	19.7
2 11	11 39.81	-14 57.1	2.357	3.155	12.2	22.3	2 11	11 42.24	+16 43.5	1.736	2.633	11.0	19.5
2 21	11 33.47	-14 54.9	2.275	3.154	9.7	22.1	2 21	11 35.32	+17 42.2	1.683	2.631	7.7	19.3
3 2	11 25.70	-14 32.5	2.218	3.153	7.1	21.9	3 2	11 26.56	+18 36.6	1.656	2.628	5.3	19.1
3 12	11 17.21	-13 51.4	2.189	3.151	5.4	21.8	3 12	11 16.98	+19 18.6	1.657	2.626	6.1	19.2
3 22	11 8.82	-12 55.3	2.188	3.148	5.8	21.9	3 22	11 7.70	+19 42.3	1.685	2.623	9.2	19.3
4 1	11 1.35	-11 49.6	2.216	3.145	8.0	22.0	4 1	10 59.82	+19 44.8	1.738	2.620	12.6	19.5
4 11	10 55.46	-10 41.2	2.270	3.141	10.6	22.1	4 11	10 54.12	+19 26.0	1.812	2.618	15.7	19.7
<b>53343</b>	1999 <i>JO</i> <sub>54</sub>		3 9.4 289°12	7°2/15.9 18			<b>136993</b>	1998 <i>ST</i> <sub>49</sub>		3 9.4 25°92	23°9/19.1 13 C		
2 1	11 41.95	-15 50.0	1.898	2.613	17.5	17.6	2 1	14 26.17	+57 30.9	0.502	1.239	48.9	18.5
2 11	11 38.76	-16 25.7	1.792	2.599	15.1	17.4	2 11	13 30.59	+56 55.2	0.522	1.320	40.9	18.5
2 21	11 33.19	-16 37.8	1.704	2.586	12.3	17.2	2 21	12 33.75	+54 19.2	0.554	1.403	33.4	18.5
3 2	11 25.71	-16 23.4	1.639	2.572	9.4	16.9	3 2	11 45.86	+49 43.9	0.604	1.486	27.6	18.7
3 12	11 17.18	-15 42.8	1.599	2.558	7.4	16.8	3 12	11 12.01	+44 0.3	0.678	1.570	24.4	19.0
3 22	11 8.64	-14 39.7	1.585	2.544	7.7	16.8	3 22	10 50.97	+38 7.1	0.775	1.653	24.0	19.4
4 1	11 1.19	-13 21.1	1.596	2.531	10.1	16.9	4 1	10 39.62	+32 39.1	0.894	1.735	25.0	19.8
4 11	10 55.73	-11 56.7	1.632	2.517	13.3	17.0	4 11	10 35.11	+27 49.1	1.032	1.816	26.3	20.3
<b>498778</b>	2008 <i>UA</i> <sub>135</sub>		3 9.4 134°63	0°4/ 9.8 17			<b>210186</b>	2006 <i>VC</i> <sub>45</sub>		3 9.4 240°73	2°7/ 6.2 18		
2 1	11 42.44	+ 0 25.0	2.232	3.014	13.2	22.3	2 1	11 42.01	+11 11.4	2.579	3.386	11.0	21.2
2 11	11 38.43	+ 0 50.5	2.146	3.020	10.3	22.1	2 11	11 37.95	+11 55.0	2.486	3.377	8.4	21.0
2 21	11 32.53	+ 1 29.1	2.084	3.025	6.9	21.9	2 21	11 32.17	+12 44.1	2.419	3.369	5.5	20.8
3 2	11 25.27	+ 2 17.6	2.049	3.031	3.1	21.7	3 2	11 25.13	+13 34.1	2.380	3.360	3.0	20.6
3 12	11 17.39	+ 3 11.0	2.043	3.036	1.0	21.5	3 12	11 17.49	+14 19.6	2.370	3.350	3.4	20.6
3 22	11 9.73	+ 4 4.0	2.066	3.040	4.8	21.8	3 22	11 9.97	+14 56.1	2.390	3.341	6.1	20.8
4 1	11 3.07	+ 4 51.2	2.118	3.045	8.4	22.0	4 1	11 3.31	+15 20.1	2.438	3.331	9.0	21.0
4 11	10 58.04	+ 5 28.5	2.194	3.050	11.6	22.2	4 11	10 58.10	+15 30.0	2.510	3.321	11.7	21.1
<b>212460</b>	2006 <i>QD</i> <sub>28</sub>		3 9.4 257°09	1°9/ 7.7 17			<b>409228</b>	2003 <i>YU</i> <sub>97</sub>		3 9.4 135°48			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>93786</b>	2000 WS <sub>34</sub>		3 9.4 102°40	2°0/ 7.3 18			<b>133771</b>	2003 WW <sub>76</sub>		3 9.4 217°30	3°9/ 4.6 18		
2 1	11 43.16	+ 6 45.2	2.010	2.817	13.6	19.8	2 1	11 40.59	+11 56.6	2.159	2.979	12.4	20.0
2 11	11 39.14	+ 7 39.2	1.938	2.829	10.4	19.7	2 11	11 37.18	+13 20.3	2.080	2.978	9.4	19.8
2 21	11 33.06	+ 8 43.6	1.890	2.841	6.7	19.5	2 21	11 31.83	+14 51.6	2.025	2.976	6.3	19.6
3 2	11 25.52	+ 9 52.4	1.869	2.853	3.0	19.2	3 2	11 25.03	+16 23.3	1.999	2.975	4.0	19.4
3 12	11 17.37	+10 58.7	1.877	2.864	2.8	19.2	3 12	11 17.57	+17 47.3	2.001	2.973	4.9	19.5
3 22	11 9.53	+11 55.8	1.914	2.875	6.4	19.5	3 22	11 10.29	+18 56.9	2.032	2.971	7.8	19.7
4 1	11 2.86	+12 38.8	1.978	2.886	10.0	19.7	4 1	11 4.03	+19 47.3	2.090	2.969	10.9	19.8
4 11	10 58.01	+13 5.3	2.065	2.897	13.1	20.0	4 11	10 59.45	+20 16.6	2.169	2.967	13.7	20.0
<b>114820</b>	2003 OS <sub>12</sub>		3 9.4 212°32	10°9/21.9 18			<b>240817</b>	2006 AC <sub>19</sub>		3 9.4 44°00	3°0/11.6 18		
2 1	11 46.47	-30 51.6	2.488	3.058	16.7	20.2	2 1	11 44.25	- 4 23.7	1.331	2.128	19.8	20.6
2 11	11 41.95	-32 10.8	2.385	3.054	15.5	20.1	2 11	11 41.07	- 4 26.3	1.258	2.135	15.9	20.3
2 21	11 35.17	-33 7.4	2.298	3.049	14.0	19.9	2 21	11 34.92	- 4 4.9	1.204	2.141	11.3	20.1
3 2	11 26.57	-33 36.1	2.231	3.043	12.5	19.8	3 2	11 26.51	- 3 21.2	1.172	2.148	6.2	19.8
3 12	11 16.94	-33 34.2	2.185	3.038	11.4	19.7	3 12	11 17.05	- 2 21.2	1.166	2.156	3.0	19.6
3 22	11 7.27	-33 1.9	2.163	3.032	10.9	19.7	3 22	11 7.97	- 1 13.9	1.184	2.164	6.6	19.8
4 1	10 58.57	-32 3.1	2.165	3.026	11.4	19.7	4 1	11 0.60	- 0 9.0	1.228	2.172	11.5	20.1
4 11	10 51.70	-30 45.0	2.190	3.019	12.6	19.7	4 11	10 55.89	+ 0 45.0	1.293	2.180	16.0	20.4
<b>54654</b>	2000 SW <sub>355</sub>		3 9.4 276°63	7°1/ 1.0 18			<b>458896</b>	2011 UZ <sub>198</sub>		3 9.4 122°80	1°5/ 8.0 18		
2 1	11 46.69	+26 20.9	2.385	3.198	11.6	19.3	2 1	11 47.57	+ 5 8.7	1.821	2.622	15.1	22.1
2 11	11 41.86	+27 22.3	2.303	3.182	9.5	19.2	2 11	11 42.70	+ 5 54.4	1.751	2.638	11.6	21.9
2 21	11 34.89	+28 19.4	2.245	3.165	7.8	19.0	2 21	11 35.49	+ 6 52.3	1.704	2.653	7.5	21.7
3 2	11 26.35	+29 4.8	2.214	3.149	7.2	18.9	3 2	11 26.60	+ 7 56.7	1.684	2.668	3.2	21.5
3 12	11 17.07	+29 32.0	2.211	3.132	8.1	19.0	3 12	11 17.04	+ 9 0.0	1.693	2.683	2.4	21.5
3 22	11 8.00	+29 37.1	2.234	3.116	10.1	19.1	3 22	11 7.88	+ 9 55.3	1.731	2.697	6.5	21.7
4 1	11 0.05	+29 18.8	2.282	3.099	12.4	19.2	4 1	11 0.11	+10 37.0	1.795	2.710	10.5	22.0
4 11	10 53.93	+28 38.8	2.350	3.083	14.6	19.3	4 11	10 54.45	+11 2.3	1.883	2.722	13.9	22.2
<b>429761</b>	2012 BP <sub>134</sub>		3 9.4 170°36	3°5/ 5.9 18			<b>140957</b>	2001 VJ <sub>103</sub>		3 9.4 215°59	5°3/ 2.2 18		
2 1	11 43.31	+ 0 51.0	1.222	2.044	19.8	20.8	2 1	11 45.42	+23 7.2	2.897	3.704	9.9	20.8
2 11	11 40.70	+ 3 31.3	1.146	2.047	15.1	20.5	2 11	11 40.42	+24 3.1	2.815	3.696	7.9	20.6
2 21	11 34.89	+ 6 47.1	1.093	2.049	9.7	20.2	2 21	11 33.72	+24 56.8	2.759	3.687	6.1	20.5
3 2	11 26.56	+10 24.1	1.066	2.051	4.4	19.9	3 2	11 25.80	+25 42.8	2.732	3.679	5.3	20.4
3 12	11 16.97	+14 0.6	1.068	2.052	5.3	19.9	3 12	11 17.32	+26 15.8	2.734	3.669	6.1	20.5
3 22	11 7.68	+17 14.2	1.098	2.053	10.9	20.2	3 22	11 9.02	+26 32.4	2.765	3.659	7.9	20.6
4 1	11 0.18	+19 49.1	1.152	2.053	16.2	20.5	4 1	11 1.60	+26 31.3	2.822	3.649	10.0	20.7
4 11	10 55.55	+21 39.0	1.226	2.052	20.6	20.8	4 11	10 55.64	+26 12.7	2.901	3.638	12.0	20.8
<b>10738</b>	Marcoaldo		3 9.4 34°09	2°5/11.5 18			<b>364397</b>	2006 VH <sub>62</sub>		3 9.4 167°56	0°2/ 9.1 18		
2 1	11 41.77	- 5 7.0	1.401	2.195	19.1	17.5	2 1	11 44.39	+ 1 34.2	2.168	2.952	13.5	21.6
2 11	11 39.03	- 4 47.6	1.324	2.199	15.4	17.3	2 11	11 40.02	+ 2 15.8	2.081	2.957	10.5	21.4
2 21	11 33.52	- 4 2.4	1.266	2.203	10.8	17.0	2 21	11 33.66	+ 3 11.0	2.017	2.961	6.9	21.2
3 2	11 25.88	- 2 53.9	1.231	2.208	5.9	16.7	3 2	11 25.82	+ 4 15.9	1.981	2.964	3.0	20.9
3 12	11 17.25	- 1 29.4	1.222	2.213	2.5	16.5	3 12	11 17.32	+ 5 24.4	1.975	2.967	1.2	20.8
3 22	11 8.93	+ 0 1.2	1.238	2.218	6.3	16.8	3 22	11 9.02	+ 6 30.2	1.998	2.969	5.3	21.1
4 1	11 2.17	+ 1 26.9	1.280	2.223	11.2	17.1	4 1	11 1.77	+ 7 27.3	2.050	2.971	9.0	21.3
4 11	10 57.88	+ 2 38.8	1.344	2.229	15.6	17.3	4 11	10 56.26	+ 8 11.7	2.126	2.972	12.3	21.5
<b>247023</b>	1999 XG <sub>238</sub>		3 9.4 158°50	1°6/ 7.7 18			<b>499382</b>	2010 AR <sub>73</sub>		3 9.4 98°87	4°5/ 4.3 18		
2 1	11 46.65	+ 6 17.9	2.140	2.936	13.3	21.7	2 1	11 46.02	+15 40.3	2.224	3.037	12.3	21.4
2 11	11 41.73	+ 7 2.4	2.059	2.944	10.2	21.5	2 11	11 41.05	+16 53.0	2.171	3.063	9.4	21.2
2 21	11 34.76	+ 7 56.8	2.003	2.951	6.6	21.3	2 21	11 34.15	+18 7.7	2.143	3.088	6.5	21.1
3 2	11 26.28	+ 8 56.2	1.974	2.957	2.9	21.0	3 2	11 25.96	+19 17.1	2.144	3.113	4.6	21.0
3 12	11 17.14	+ 9 54.2	1.975	2.963	2.4	21.0	3 12	11 17.30	+20 14.7	2.174	3.137	5.4	21.1
3 22	11 8.26	+10 44.7	2.005	2.968	6.0	21.2	3 22	11 9.06	+20 55.6	2.233	3.161	7.8	21.3
4 1	11 0.53	+11 23.2	2.064	2.972	9.6	21.5	4 1	11 2.02	+21 17.5	2.318	3.184	10.5	21.5
4 11	10 54.61	+11 46.9	2.147	2.976	12.8	21.7	4 11	10 56.76	+21 20.5	2.425	3.206	12.9	21.7
<b>154344</b>	2002 WN <sub>10</sub>		3 9.4 130°91	0°9/ 8.7 18			<b>117650</b>	2005 EO <sub>151</sub>		3 9.4 289°69	0°4/ 9.1 17		
2 1	11 45.66	+ 2 22.6	1.489	2.298	17.5	20.3	2 1	11 41.33	+ 1 2.4	1.597	2.405	16.5	20.6
2 11	11 41.84	+ 3 10.1	1.414	2.304	13.5	20.0	2 11	11 38.53	+ 1 48.1	1.504	2.393	13.0	20.3
2 21	11 35.26	+ 4 16.2	1.361	2.311	8.9	19.8	2 21	11 33.17	+ 2 54.1	1.431	2.380	8.6	20.1
3 2	11 26.61	+ 5 34.9	1.332	2.317	3.7	19.5	3 2	11 25.77	+ 4 15.7	1.384	2.368	3.7	19.7
3 12	11 17.01	+ 6 56.8	1.331	2.322	2.0	19.4	3 12	11 17.31	+ 5 44.7	1.363	2.356	1.6	19.5
3 22	11 7.77	+ 8 12.2	1.356	2.328	7.2	19.7	3 22	11 8.94	+ 7 11.2	1.370	2.343	6.8	19.8
4 1	11 0.12	+ 9 12.9	1.408	2.333	11.9	20.0	4 1	11 1.87	+ 8 26.0	1.402	2.331	11.7	20.1
4 11	10 54.92	+ 9 54.0	1.481	2.338	16.0	20.3	4 11	10 57.02	+ 9 22.4	1.456	2.319	15.9	20.3
<b>53733</b>	2000 EA <sub>45</sub>		3 9.4 121°35	1°7/10.8 18			<b>387296</b>	2012 VX <sub>2</sub>		3 9.4 140°62	2°8/ 5.8 17		
2 1	11 45.03	- 3 18.2	1.520	2.309	18.1	19.9	2 1	11 40.88	+10 30.2	2.525	3.334	11.1	21.4
2 11	11 41.32	- 2 54.7	1.442	2.316	14.4	19.6	2 11	11 37.05	+11 34.4	2.448	3.341	8.4	21.2
2 21	11 34.91	- 2 8.8	1.384	2.323	10.0	19.4	2 21	11 31.55	+12 44.9	2.396	3.347	5.5	21.1
3 2	11 26.46	- 1 3.7	1.351	2.330	5.0	19.1	3 2	11 24.87	+13 56.4	2.373	3.352	3.1	20.9
3 12	11 17.06	+ 0 13.7	1.344	2.336	1.8	18.9	3 12	11 17.67	+15 2.7	2.380	3.358	3.5	21.0
3 22	11 7.99	+ 1 34.0	1.364	2.342	6.2	19.2	3 22	11 10.67	+15 58.7	2.416	3.363	6.2	21.1
4 1	11 0.45	+ 2 48.0	1.410	2.348	10.9	19.5	4 1	11 4.56	+16 40.5	2.479	3.368	9.1	21.3
4 11	10 55.31	+ 3 48.3	1.479	2.353	15.1	19.7	4 11	10 59.89	+17 6.4	2.567	3.373	11.6	21.5
<b>368751</b>	2005 UG <sub>456</sub>		3 9.4 192°86	0°4/ 9.8 16			<b>243019</b>	2006 UL <sub>181</sub>		3 9.4 144°28	4°1/ 3.9 18		
2 1	11 43.71	- 0 5.4	2.521	3.292	12.2	22.							

EPHEMERIDES

3 9.4

3 9.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>352732</b>	2008 <i>SK</i> <sub>294</sub>		3 9.4 207°89	2°3/ 7.2 18			<b>84326</b>	2002 <i>TZ</i> <sub>49</sub>		3 9.4 135°43	2°8/12.8 18		
2 1	11 46.07	+ 5 52.5	1.818	2.623	14.9	21.7	2 1	11 40.63	- 8 4.5	2.453	3.195	13.3	19.7
2 11	11 41.84	+ 7 0.9	1.727	2.617	11.5	21.5	2 11	11 36.94	- 7 46.9	2.361	3.202	10.8	19.6
2 21	11 35.16	+ 8 24.3	1.660	2.611	7.5	21.2	2 21	11 31.53	- 7 12.2	2.292	3.208	7.9	19.4
3 2	11 26.58	+ 9 55.8	1.620	2.604	3.4	21.0	3 2	11 24.89	- 6 21.6	2.249	3.214	4.8	19.2
3 12	11 17.04	+11 26.5	1.609	2.596	3.3	20.9	3 12	11 17.69	- 5 19.0	2.234	3.219	2.8	19.1
3 22	11 7.65	+12 47.4	1.627	2.587	7.5	21.2	3 22	11 10.66	- 4 9.5	2.249	3.225	4.3	19.2
4 1	10 59.51	+13 51.2	1.671	2.577	11.7	21.4	4 1	11 4.51	- 2 58.9	2.293	3.230	7.3	19.4
4 11	10 53.48	+14 34.1	1.738	2.567	15.3	21.6	4 11	10 59.82	- 1 53.0	2.364	3.235	10.3	19.6
<b>82214</b>	2001 <i>HZ</i> <sub>52</sub>		3 9.4 201°80	4°1/ 5.6 18			<b>423261</b>	2004 <i>TO</i> <sub>317</sub>		3 9.4 200°32	1°9/ 7.3 17		
2 1	11 49.57	+12 20.2	1.904	2.714	14.2	20.2	2 1	11 46.12	+ 9 1.0	2.538	3.332	11.5	22.1
2 11	11 44.44	+13 22.5	1.818	2.709	10.9	19.9	2 11	11 41.11	+ 9 33.1	2.444	3.328	8.8	21.9
2 21	11 36.81	+14 32.3	1.755	2.704	7.3	19.7	2 21	11 34.27	+10 11.6	2.376	3.323	5.8	21.7
3 2	11 27.27	+15 42.2	1.721	2.698	4.4	19.5	3 2	11 26.09	+10 52.3	2.336	3.318	2.7	21.5
3 12	11 16.81	+16 43.8	1.715	2.690	5.0	19.5	3 12	11 17.27	+11 30.2	2.326	3.312	2.6	21.5
3 22	11 6.56	+17 29.8	1.738	2.682	8.4	19.7	3 22	11 8.61	+12 1.0	2.347	3.305	5.6	21.7
4 1	10 57.62	+17 56.0	1.787	2.673	12.1	19.9	4 1	11 0.87	+12 21.2	2.396	3.298	8.8	21.9
4 11	10 50.84	+18 1.1	1.858	2.663	15.4	20.1	4 11	10 54.67	+12 28.9	2.471	3.290	11.6	22.1
<b>364447</b>	2006 <i>XS</i> <sub>62</sub>		3 9.4 130°60	2°5/ 6.7 18			<b>501531</b>	2014 <i>FP</i> <sub>19</sub>		3 9.4 75°24	0°5/10.1 18		
2 1	11 46.19	+ 9 1.5	2.235	3.036	12.6	21.4	2 1	11 38.91	- 2 22.4	2.327	3.103	13.0	20.8
2 11	11 41.22	+ 9 56.4	2.165	3.053	9.6	21.2	2 11	11 35.63	- 1 21.8	2.248	3.117	10.1	20.6
2 21	11 34.32	+10 58.7	2.119	3.068	6.2	21.0	2 21	11 30.66	- 0 5.1	2.192	3.131	6.8	20.4
3 2	11 26.07	+12 2.7	2.102	3.084	3.1	20.9	3 2	11 24.50	+ 1 23.4	2.164	3.145	3.1	20.2
3 12	11 17.27	+13 1.9	2.115	3.098	3.2	20.9	3 12	11 17.84	+ 2 57.6	2.167	3.159	0.9	20.0
3 22	11 8.79	+13 50.9	2.158	3.112	6.3	21.1	3 22	11 11.40	+ 4 30.4	2.199	3.173	4.5	20.3
4 1	11 1.44	+14 25.6	2.228	3.125	9.6	21.3	4 1	11 5.90	+ 5 55.5	2.260	3.187	8.0	20.5
4 11	10 55.83	+14 44.5	2.323	3.138	12.4	21.6	4 11	11 1.87	+ 7 7.7	2.347	3.201	11.0	20.8
<b>131294</b>	2001 <i>FM</i> <sub>115</sub>		3 9.4 326°36	0°7/10.0 17			<b>241073</b>	2006 <i>TB</i> <sub>39</sub>		3 9.4 218°01	1°2/ 7.8 17		
2 1	11 41.24	+ 0 8.5	1.854	2.649	15.1	20.0	2 1	11 41.96	+ 6 36.9	2.902	3.693	10.3	21.9
2 11	11 38.03	+ 0 26.7	1.762	2.642	11.9	19.8	2 11	11 37.72	+ 7 10.5	2.803	3.684	7.9	21.7
2 21	11 32.58	+ 1 0.6	1.692	2.636	8.0	19.5	2 21	11 31.95	+ 7 51.4	2.728	3.676	5.1	21.5
3 2	11 25.44	+ 1 47.3	1.648	2.630	3.7	19.2	3 2	11 25.06	+ 8 36.0	2.683	3.666	2.2	21.3
3 12	11 17.46	+ 2 41.2	1.631	2.624	1.1	19.0	3 12	11 17.63	+ 9 20.3	2.668	3.657	1.8	21.3
3 22	11 9.62	+ 3 35.8	1.642	2.618	5.5	19.3	3 22	11 10.30	+10 0.1	2.684	3.647	4.7	21.5
4 1	11 2.93	+ 4 24.6	1.679	2.613	9.8	19.5	4 1	11 3.69	+10 31.9	2.729	3.637	7.6	21.6
4 11	10 58.16	+ 5 2.1	1.741	2.608	13.5	19.8	4 11	10 58.35	+10 53.3	2.799	3.626	10.2	21.8
<b>109523</b>	2001 <i>QM</i> <sub>244</sub>		3 9.4 29°79	2°4/ 7.9 18			<b>155619</b>	2000 <i>EF</i> <sub>100</sub>		3 9.4 214°93	0°5/ 9.8 18		
2 1	11 49.71	+ 9 54.1	1.516	2.336	16.7	19.2	2 1	11 49.09	+ 1 12.4	1.860	2.644	15.5	20.2
2 11	11 44.87	+ 9 55.9	1.446	2.342	12.9	19.0	2 11	11 44.16	+ 1 24.5	1.762	2.636	12.2	20.0
2 21	11 37.19	+10 4.4	1.396	2.348	8.4	18.8	2 21	11 36.71	+ 1 51.0	1.686	2.628	8.2	19.7
3 2	11 27.42	+10 14.5	1.372	2.355	3.9	18.5	3 2	11 27.28	+ 2 29.0	1.637	2.619	3.8	19.4
3 12	11 16.79	+10 19.9	1.375	2.363	3.2	18.5	3 12	11 16.83	+ 3 13.4	1.616	2.609	1.2	19.2
3 22	11 6.64	+10 15.7	1.404	2.371	7.6	18.8	3 22	11 6.49	+ 3 57.9	1.624	2.598	5.9	19.5
4 1	10 58.20	+ 9 59.1	1.459	2.380	12.0	19.0	4 1	10 57.40	+ 4 36.3	1.660	2.587	10.3	19.7
4 11	10 52.33	+ 9 28.9	1.537	2.389	15.8	19.3	4 11	10 50.45	+ 5 3.8	1.720	2.575	14.3	19.9
<b>279581</b>	2011 <i>DR</i> <sub>23</sub>		3 9.4 40°95	3°1/ 6.4 17			<b>78675</b>	2002 <i>TH</i> <sub>118</sub>		3 9.4 91°31	4°5/14.2 18		
2 1	11 43.24	+10 0.7	1.894	2.712	13.9	20.9	2 1	11 42.22	-11 1.6	2.237	2.967	14.8	19.3
2 11	11 39.44	+10 51.5	1.816	2.713	10.6	20.7	2 11	11 38.38	-11 17.0	2.146	2.971	12.3	19.2
2 21	11 33.42	+11 50.7	1.762	2.715	7.0	20.5	2 21	11 32.61	-11 13.7	2.075	2.976	9.4	19.0
3 2	11 25.76	+12 51.9	1.735	2.716	3.6	20.3	3 2	11 25.40	-10 51.6	2.029	2.981	6.5	18.8
3 12	11 17.37	+13 47.5	1.736	2.718	3.9	20.3	3 12	11 17.52	-10 12.8	2.011	2.985	4.6	18.7
3 22	11 9.25	+14 31.3	1.764	2.720	7.4	20.5	3 22	11 9.80	- 9 21.7	2.021	2.990	5.4	18.7
4 1	11 2.36	+14 58.6	1.819	2.721	11.1	20.8	4 1	11 3.07	- 8 24.1	2.058	2.994	8.1	18.9
4 11	10 57.41	+15 7.7	1.896	2.723	14.3	21.0	4 11	10 57.99	- 7 26.5	2.121	2.999	11.0	19.1
<b>409981</b>	2006 <i>VZ</i> <sub>100</sub>		3 9.4 99°55	0°4/ 9.0 18			<b>44123</b>	1998 <i>HC</i> <sub>36</sub>		3 9.4 167°49	1°3/ 8.3 18		
2 1	11 45.64	+ 1 51.1	1.914	2.705	14.8	21.7	2 1	11 47.77	+ 3 59.0	1.618	2.422	16.5	19.5
2 11	11 41.05	+ 2 35.1	1.848	2.727	11.4	21.5	2 11	11 43.33	+ 4 43.4	1.538	2.426	12.8	19.3
2 21	11 34.32	+ 3 33.2	1.804	2.750	7.5	21.3	2 21	11 36.20	+ 5 43.5	1.480	2.430	8.4	19.0
3 2	11 26.09	+ 4 40.5	1.788	2.771	3.1	21.1	3 2	11 27.04	+ 6 53.3	1.448	2.433	3.5	18.7
3 12	11 17.28	+ 5 49.9	1.800	2.792	1.4	21.0	3 12	11 16.94	+ 8 4.7	1.444	2.435	2.3	18.6
3 22	11 8.88	+ 6 54.5	1.842	2.813	5.6	21.3	3 22	11 7.15	+ 9 8.8	1.468	2.436	7.1	18.9
4 1	11 1.78	+ 7 48.4	1.911	2.833	9.5	21.6	4 1	10 58.85	+ 9 58.7	1.518	2.437	11.7	19.2
4 11	10 56.62	+ 8 27.8	2.005	2.853	12.8	21.8	4 11	10 52.92	+10 30.3	1.590	2.438	15.6	19.4
<b>212468</b>	2006 <i>QL</i> <sub>43</sub>		3 9.4 131°73	0°8/ 8.5 17			<b>308263</b>	2005 <i>GB</i> <sub>100</sub>		3 9.4 25°39	1°4/ 8.4 18		
2 1	11 44.14	+ 5 40.4	2.544	3.334	11.6	20.7	2 1	11 43.90	+ 4 55.0	1.307	2.135	18.4	21.0
2 11	11 39.48	+ 5 56.9	2.460	3.341	8.9	20.5	2 11	11 40.80	+ 5 21.8	1.240	2.141	14.2	20.7
2 21	11 33.12	+ 6 21.0	2.401	3.347	5.8	20.3	2 21	11 34.73	+ 6 4.4	1.193	2.147	9.3	20.5
3 2	11 25.55	+ 6 49.3	2.370	3.354	2.4	20.1	3 2	11 26.43	+ 6 56.5	1.169	2.154	3.9	20.2
3 12	11 17.46	+ 7 17.8	2.369	3.360	1.5	20.0	3 12	11 17.17	+ 7 49.4	1.170	2.161	2.5	20.1
3 22	11 9.59	+ 7 42.7	2.398	3.366	4.8	20.2	3 22	11 8.36	+ 8 34.4	1.197	2.170	7.7	20.4
4 1	11 2.64	+ 8 0.5	2.456	3.372	7.9	20.5	4 1	11 1.29	+ 9 4.5	1.248	2.178	12.7	20.7
4 11	10 57.17	+ 8 8.9	2.539	3.378	10.7	20.6	4 11	10 56.88	+ 9 16.1	1.319	2.188	16.9	21.0
<b>291287</b>	2006 <i>BP</i> <sub>126</sub>		3 9.4 175°36	1°0/10.3 17			<b>307169</b>	2002 <i>EN</i> <sub>16</sub>		3 9.4 319°33	4°2/13.1 18		</

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>473136</b>	2015 <i>KD</i> <sub>3</sub>		3 9.4 230°74	6°2/18.2	17		<b>473088</b>	2015 <i>HT</i> <sub>149</sub>		3 9.4 332°22	0°7/10.1	17	
2 1	11 39.82	-21 7.4	2.883	3.532	13.3	21.6	2 1	11 41.56	+0 38.5	2.127	2.915	13.6	21.1
2 11	11 36.26	-21 20.2	2.771	3.524	11.7	21.5	2 11	11 37.97	+0 48.0	2.033	2.909	10.7	20.9
2 21	11 31.10	-21 13.2	2.678	3.517	9.8	21.3	2 21	11 32.41	+1 10.2	1.963	2.904	7.2	20.7
3 2	11 24.74	-20 45.0	2.609	3.509	7.9	21.2	3 2	11 25.36	+1 42.7	1.918	2.900	3.4	20.5
3 12	11 17.78	-19 56.2	2.566	3.500	6.5	21.1	3 12	11 17.60	+2 21.1	1.903	2.895	1.0	20.3
3 22	11 10.87	-18 49.9	2.551	3.492	6.3	21.0	3 22	11 9.98	+3 0.3	1.915	2.891	4.9	20.5
4 1	11 4.69	-17 30.7	2.564	3.483	7.5	21.1	4 1	11 3.36	+3 35.2	1.955	2.887	8.7	20.8
4 11	10 59.83	-16 5.1	2.603	3.474	9.5	21.2	4 11	10 58.43	+4 1.5	2.020	2.883	12.1	21.0
<b>262838</b>	2007 <i>BM</i> <sub>4</sub>		3 9.4 80°97	3°6/ 6.1	18		<b>268445</b>	2005 <i>WU</i> <sub>36</sub>		3 9.4 139°50	0°4/ 8.9	18	
2 1	11 47.28	+10 53.9	1.787	2.603	14.7	20.6	2 1	11 44.47	+2 52.4	2.214	3.001	13.2	21.5
2 11	11 42.39	+11 57.0	1.735	2.630	11.1	20.4	2 11	11 40.00	+3 27.3	2.133	3.012	10.2	21.3
2 21	11 35.21	+13 6.7	1.707	2.658	7.3	20.2	2 21	11 33.61	+4 14.1	2.076	3.021	6.7	21.1
3 2	11 26.48	+14 15.3	1.706	2.685	4.0	20.1	3 2	11 25.83	+5 8.5	2.047	3.030	2.8	20.9
3 12	11 17.22	+15 14.8	1.733	2.712	4.5	20.2	3 12	11 17.46	+6 5.1	2.047	3.039	1.3	20.8
3 22	11 8.51	+15 59.1	1.788	2.738	7.8	20.4	3 22	11 9.33	+6 58.1	2.077	3.047	5.2	21.0
4 1	11 1.28	+16 24.6	1.869	2.764	11.2	20.7	4 1	11 2.26	+7 42.6	2.135	3.055	8.8	21.3
4 11	10 56.16	+16 30.8	1.973	2.790	14.2	20.9	4 11	10 56.89	+8 15.1	2.218	3.062	11.9	21.5
<b>98340</b>	2000 <i>SU</i> <sub>296</sub>		3 9.4 59°89	4°7/13.1	18		<b>325479</b>	2009 <i>RF</i> <sub>2</sub>		3 9.4 159°21	4°7/ 4.1	18	
2 1	11 44.72	- 8 16.8	1.467	2.239	19.4	19.7	2 1	11 48.38	+18 32.1	2.511	3.317	11.3	21.0
2 11	11 41.23	- 8 34.3	1.391	2.247	16.0	19.4	2 11	11 42.80	+19 25.5	2.439	3.325	8.8	20.8
2 21	11 34.94	- 8 27.1	1.334	2.256	11.8	19.2	2 21	11 35.34	+20 19.0	2.393	3.332	6.3	20.7
3 2	11 26.54	- 7 55.0	1.299	2.264	7.5	19.0	3 2	11 26.56	+21 6.4	2.376	3.339	4.7	20.6
3 12	11 17.16	- 7 2.2	1.289	2.272	4.7	18.8	3 12	11 17.23	+21 42.2	2.388	3.345	5.4	20.7
3 22	11 8.10	- 5 55.9	1.305	2.281	6.6	19.0	3 22	11 8.20	+22 2.3	2.430	3.350	7.7	20.8
4 1	11 0.62	- 4 45.7	1.346	2.290	10.7	19.2	4 1	11 0.25	+22 5.1	2.498	3.355	10.2	21.0
4 11	10 55.62	- 3 40.9	1.410	2.299	14.8	19.5	4 11	10 53.99	+21 50.9	2.590	3.359	12.5	21.1
<b>215278</b>	2001 <i>QW</i> <sub>82</sub>		3 9.4 226°02	2°3/12.3	17		<b>430075</b>	2013 <i>SP</i> <sub>43</sub>		3 9.4 135°33	4°2/ 4.8	17	
2 1	11 43.11	- 8 0.3	2.586	3.320	12.9	21.9	2 1	11 45.85	+15 17.3	2.267	3.080	12.1	21.4
2 11	11 38.91	- 7 21.2	2.468	3.306	10.5	21.7	2 11	11 41.03	+16 13.8	2.198	3.090	9.3	21.3
2 21	11 32.93	- 6 23.4	2.374	3.290	7.6	21.5	2 21	11 34.26	+17 13.0	2.154	3.100	6.4	21.1
3 2	11 25.57	- 5 8.4	2.306	3.274	4.5	21.3	3 2	11 26.10	+18 8.5	2.137	3.109	4.3	21.0
3 12	11 17.49	- 3 40.2	2.269	3.257	2.3	21.1	3 12	11 17.39	+18 54.0	2.150	3.118	5.0	21.1
3 22	11 9.43	- 2 4.7	2.263	3.239	4.3	21.2	3 22	11 8.98	+19 24.8	2.192	3.127	7.6	21.2
4 1	11 2.15	- 0 28.7	2.288	3.219	7.6	21.4	4 1	11 1.70	+19 38.4	2.260	3.135	10.4	21.4
4 11	10 56.30	+ 1 1.2	2.340	3.200	10.8	21.5	4 11	10 56.17	+19 34.4	2.351	3.143	13.0	21.6
<b>187097</b>	2005 <i>QV</i> <sub>15</sub>		3 9.4 308°78	1°0/10.3	17		<b>239311</b>	2007 <i>QZ</i> <sub>9</sub>		3 9.4 256°04	1°5/ 8.2	17	
2 1	11 42.24	- 1 2.9	1.695	2.490	16.3	20.6	2 1	11 46.59	+4 59.5	1.760	2.564	15.4	21.3
2 11	11 39.03	- 0 41.5	1.606	2.485	12.9	20.4	2 11	11 42.52	+5 37.9	1.656	2.545	12.0	21.0
2 21	11 33.38	- 0 1.6	1.537	2.480	8.8	20.1	2 21	11 35.82	+6 31.0	1.575	2.525	7.9	20.8
3 2	11 25.86	+ 0 53.8	1.494	2.475	4.2	19.8	3 2	11 27.01	+7 33.8	1.520	2.504	3.4	20.4
3 12	11 17.40	+ 1 58.5	1.478	2.470	1.3	19.6	3 12	11 17.01	+8 38.9	1.493	2.483	2.4	20.3
3 22	11 9.11	+ 3 4.8	1.489	2.466	5.9	19.9	3 22	11 7.01	+9 38.3	1.494	2.462	7.1	20.6
4 1	11 2.08	+ 4 5.0	1.526	2.461	10.4	20.1	4 1	10 58.21	+10 24.8	1.521	2.439	11.8	20.8
4 11	10 57.17	+ 4 52.6	1.586	2.457	14.4	20.4	4 11	10 51.62	+10 53.9	1.572	2.416	15.9	21.0
<b>502789</b>	2015 <i>DP</i> <sub>99</sub>		3 9.4 302°43	1°8/ 7.5	17		<b>37183</b>	2000 <i>WH</i> <sub>50</sub>		3 9.4 148°48	1°9/ 7.2	18	
2 1	11 41.26	+ 6 48.9	2.125	2.933	13.0	21.5	2 1	11 42.10	+5 39.6	2.251	3.051	12.6	18.8
2 11	11 37.74	+ 7 32.5	2.037	2.929	9.9	21.3	2 11	11 38.20	+6 50.3	2.171	3.059	9.6	18.6
2 21	11 32.24	+ 8 26.1	1.973	2.924	6.4	21.1	2 21	11 32.45	+8 12.3	2.116	3.066	6.2	18.4
3 2	11 25.27	+ 9 24.9	1.936	2.920	2.9	20.9	3 2	11 25.35	+9 39.9	2.088	3.072	2.8	18.2
3 12	11 17.62	+10 22.6	1.928	2.916	2.6	20.8	3 12	11 17.64	+11 5.9	2.091	3.078	2.7	18.2
3 22	11 10.13	+11 13.1	1.948	2.911	6.1	21.0	3 22	11 10.15	+12 23.5	2.124	3.084	6.0	18.5
4 1	11 3.66	+11 51.5	1.995	2.907	9.7	21.3	4 1	11 3.66	+13 27.2	2.185	3.089	9.4	18.7
4 11	10 58.88	+12 14.9	2.066	2.903	12.9	21.4	4 11	10 58.78	+14 13.9	2.270	3.093	12.4	18.9
<b>208664</b>	2002 <i>GN</i> <sub>11</sub>		3 9.4 252°48	0°6/ 8.9	16		<b>55960</b>	1998 <i>HX</i> <sub>133</sub>		3 9.4 94°72	5°0/ 3.9	18	
2 1	11 44.25	+ 2 12.5	1.813	2.612	15.3	20.8	2 1	11 45.12	+19 1.3	2.333	3.149	11.7	18.9
2 11	11 40.55	+ 2 54.2	1.712	2.596	11.9	20.6	2 11	11 40.49	+19 48.7	2.260	3.151	9.1	18.8
2 21	11 34.41	+ 3 52.8	1.633	2.580	7.9	20.3	2 21	11 33.92	+20 35.9	2.212	3.153	6.6	18.6
3 2	11 26.34	+ 5 4.0	1.580	2.564	3.4	20.0	3 2	11 25.97	+21 16.7	2.191	3.155	5.0	18.5
3 12	11 17.22	+ 6 20.7	1.555	2.547	1.6	19.8	3 12	11 17.44	+21 45.2	2.199	3.157	5.8	18.6
3 22	11 8.13	+ 7 34.6	1.559	2.530	6.4	20.1	3 22	11 9.20	+21 57.7	2.235	3.158	8.1	18.7
4 1	11 0.20	+ 8 37.9	1.589	2.513	11.0	20.3	4 1	11 2.05	+21 52.2	2.297	3.160	10.7	18.9
4 11	10 54.33	+ 9 25.2	1.643	2.494	15.0	20.5	4 11	10 56.63	+21 29.2	2.381	3.162	13.1	19.1
<b>206330</b>	2003 <i>OO</i> <sub>6</sub>		3 9.4 280°61	4°1/ 5.9	17		<b>284898</b>	2009 <i>TC</i> <sub>5</sub>		3 9.4 189°55	1°2/ 8.0	15	
2 1	11 44.75	+10 8.4	1.574	2.401	15.9	20.6	2 1	11 45.81	+6 16.4	2.634	3.420	11.4	22.6
2 11	11 41.42	+11 12.7	1.477	2.378	12.3	20.3	2 11	11 40.81	+6 50.4	2.540	3.419	8.7	22.4
2 21	11 35.27	+12 30.3	1.402	2.356	8.2	20.0	2 21	11 34.06	+7 32.5	2.471	3.417	5.7	22.2
3 2	11 26.80	+13 53.4	1.352	2.333	4.6	19.7	3 2	11 26.04	+8 18.8	2.431	3.414	2.5	22.0
3 12	11 17.04	+15 11.6	1.329	2.309	5.2	19.7	3 12	11 17.41	+9 4.6	2.421	3.411	1.9	21.9
3 22	11 7.27	+16 14.8	1.332	2.286	9.5	19.8	3 22	11 8.94	+9 45.3	2.443	3.406	5.1	22.1
4 1	10 58.84	+16 55.7	1.360	2.263	14.0	20.0	4 1	11 1.33	+10 17.3	2.493	3.401	8.2	22.3
4 11	10 52.85	+17 11.2	1.408	2.239	18.2	20.2	4 11	10 55.20	+10 37.8	2.569	3.395	11.0	22.5
<b>134228</b>	2005 <i>XU</i> <sub>83</sub>		3 9.4 16°67	6°6/14.0	18		<b>469934</b>	2006 <i>AZ</i> <sub>59</sub>		3 9.4 175°51	4°2/15.3	18	
2 1	11 45.96	- 9											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>189042</b>	2000 <i>OV</i> <sub>32</sub>		3 9.4 288°65	5°2/13.7	17		<b>489970</b>	2008 <i>SR</i> <sub>56</sub>		3 9.4 166°58	1°2/ 8.1	17	
2 1	11 43.69	-10 22.9	1.894	2.637	16.6	20.6	2 1	11 44.57	+ 6 9.9	2.348	3.142	12.3	21.7
2 11	11 40.29	-10 45.3	1.771	2.606	14.1	20.3	2 11	11 40.03	+ 6 39.7	2.262	3.145	9.5	21.5
2 21	11 34.41	-10 47.0	1.668	2.576	10.9	20.0	2 21	11 33.63	+ 7 18.1	2.201	3.148	6.1	21.3
3 2	11 26.45	-10 26.0	1.589	2.545	7.5	19.8	3 2	11 25.88	+ 8 1.1	2.167	3.151	2.6	21.1
3 12	11 17.20	- 9 43.4	1.536	2.513	5.3	19.6	3 12	11 17.52	+ 8 43.6	2.163	3.153	1.9	21.0
3 22	11 7.74	- 8 43.1	1.510	2.481	6.6	19.6	3 22	11 9.37	+ 9 20.9	2.189	3.155	5.4	21.2
4 1	10 59.23	- 7 32.3	1.511	2.449	10.2	19.7	4 1	11 2.20	+ 9 48.7	2.243	3.156	8.8	21.4
4 11	10 52.71	- 6 19.8	1.535	2.417	14.2	19.9	4 11	10 56.65	+10 4.7	2.322	3.157	11.7	21.6
<b>416252</b>	Manuelherrera		3 9.4 322°59	0°7/ 9.0	17		<b>405180</b>	2002 <i>WF</i> <sub>2</sub>		3 9.4 86°24	3°4/ 6.4	18	
2 1	11 48.67	+ 6 56.7	1.499	2.314	17.1	20.2	2 1	11 48.48	+10 31.4	1.795	2.607	14.8	21.9
2 11	11 44.57	+ 6 34.8	1.400	2.294	13.4	19.9	2 11	11 43.32	+11 28.0	1.742	2.635	11.2	21.7
2 21	11 37.42	+ 6 20.7	1.323	2.274	9.0	19.6	2 21	11 35.85	+12 31.5	1.712	2.662	7.3	21.5
3 2	11 27.78	+ 6 11.3	1.270	2.255	3.9	19.2	3 2	11 26.81	+13 34.5	1.709	2.689	3.9	21.4
3 12	11 16.76	+ 6 1.9	1.244	2.236	1.8	19.0	3 12	11 17.25	+14 29.1	1.735	2.716	4.2	21.4
3 22	11 5.78	+ 5 48.0	1.245	2.219	7.2	19.3	3 22	11 8.23	+15 9.5	1.789	2.742	7.6	21.7
4 1	10 56.30	+ 5 25.9	1.270	2.202	12.4	19.6	4 1	11 0.72	+15 32.1	1.870	2.767	11.1	22.0
4 11	10 49.44	+ 4 53.0	1.317	2.186	16.9	19.8	4 11	10 55.35	+15 36.4	1.973	2.792	14.1	22.2
<b>246662</b>	2008 <i>YV</i> <sub>92</sub>		3 9.4 149°41	0°4/ 9.9	17		<b>434930</b>	2006 <i>TV</i> <sub>117</sub>		3 9.4 180°18	3°6/ 4.6	17	
2 1	11 42.81	+ 0 56.6	2.400	3.179	12.5	21.4	2 1	11 41.01	+13 53.1	2.611	3.425	10.7	21.8
2 11	11 38.64	+ 1 15.6	2.311	3.183	9.8	21.2	2 11	11 37.18	+14 58.9	2.532	3.425	8.1	21.7
2 21	11 32.69	+ 1 46.1	2.247	3.187	6.5	21.0	2 21	11 31.70	+16 8.8	2.478	3.426	5.5	21.5
3 2	11 25.45	+ 2 25.3	2.210	3.191	3.0	20.7	3 2	11 25.04	+17 17.2	2.452	3.426	3.7	21.4
3 12	11 17.63	+ 3 8.9	2.202	3.195	0.9	20.6	3 12	11 17.83	+18 18.2	2.457	3.426	4.4	21.4
3 22	11 9.99	+ 3 52.2	2.224	3.198	4.5	20.9	3 22	11 10.80	+19 6.9	2.490	3.425	6.8	21.6
4 1	11 3.28	+ 4 30.7	2.274	3.201	7.9	21.1	4 1	11 4.62	+19 40.2	2.551	3.425	9.4	21.7
4 11	10 58.10	+ 5 0.5	2.350	3.204	11.0	21.3	4 11	10 59.85	+19 56.7	2.635	3.424	11.8	21.9
<b>501398</b>	2013 <i>YF</i> <sub>90</sub>		3 9.4 67°16	2°5/ 6.4	17		<b>453398</b>	2009 <i>DM</i> <sub>51</sub>		3 9.4 58°62	2°6/ 7.7	18	
2 1	11 40.03	+ 8 31.5	2.240	3.052	12.2	21.2	2 1	11 50.47	+ 8 22.9	1.310	2.135	18.6	21.3
2 11	11 36.62	+ 9 36.8	2.167	3.061	9.3	21.0	2 11	11 45.59	+ 8 49.8	1.260	2.159	14.2	21.1
2 21	11 31.39	+10 50.7	2.118	3.070	6.0	20.8	2 21	11 37.68	+ 9 27.1	1.230	2.184	9.2	20.9
3 2	11 24.89	+12 7.2	2.097	3.079	3.0	20.7	3 2	11 27.67	+10 7.5	1.225	2.209	4.1	20.6
3 12	11 17.83	+13 9.5	2.106	3.088	3.3	20.7	3 12	11 16.99	+10 42.4	1.246	2.234	3.5	20.7
3 22	11 11.01	+14 21.6	2.143	3.097	6.4	20.9	3 22	11 7.08	+11 5.0	1.293	2.260	8.1	21.0
4 1	11 5.18	+15 9.0	2.207	3.106	9.5	21.1	4 1	11 0.59	+11 11.3	1.365	2.285	12.6	21.3
4 11	11 0.92	+15 39.4	2.295	3.115	12.4	21.3	4 11	10 54.09	+11 0.2	1.457	2.310	16.5	21.6
<b>9977</b>	Kentakunimoto		3 9.4 216°19	0°7/ 8.6	18		<b>116833</b>	2004 <i>FB</i> <sub>35</sub>		3 9.4 194°19	2°5/ 12.4	18	
2 1	11 41.83	+ 3 42.9	2.326	3.119	12.5	18.1	2 1	11 43.08	- 7 31.7	2.308	3.052	14.0	19.7
2 11	11 38.01	+ 4 18.7	2.234	3.116	9.6	17.9	2 11	11 39.04	- 7 2.2	2.206	3.050	11.3	19.5
2 21	11 32.35	+ 5 5.6	2.165	3.112	6.3	17.7	2 21	11 33.09	- 6 13.6	2.128	3.047	8.2	19.3
3 2	11 25.33	+ 5 59.7	2.124	3.108	2.7	17.5	3 2	11 25.71	- 5 7.5	2.075	3.043	4.8	19.1
3 12	11 17.67	+ 6 55.8	2.113	3.105	1.5	17.4	3 12	11 17.62	- 3 48.3	2.052	3.039	2.5	18.9
3 22	11 10.16	+ 7 48.4	2.131	3.100	5.1	17.6	3 22	11 9.64	- 2 22.3	2.058	3.035	4.6	19.1
4 1	11 3.57	+ 8 32.6	2.177	3.096	8.7	17.8	4 1	11 2.61	- 0 56.3	2.094	3.029	8.0	19.3
4 11	10 58.53	+ 9 4.8	2.248	3.092	11.8	18.0	4 11	10 57.17	+ 0 22.7	2.157	3.023	11.3	19.5
<b>497611</b>	2006 <i>PT</i> <sub>13</sub>		3 9.4 156°20	0°6/ 10.3	17		<b>369343</b>	2009 <i>SN</i> <sub>332</sub>		3 9.4 184°14	0°2/ 9.6	17	
2 1	11 41.09	- 0 59.4	3.122	3.883	10.3	23.0	2 1	11 48.19	+ 2 35.1	2.448	3.221	12.5	21.5
2 11	11 36.88	- 0 29.6	3.031	3.891	8.1	22.8	2 11	11 42.77	+ 2 42.0	2.352	3.221	9.7	21.3
2 21	11 31.33	+ 0 10.7	2.965	3.899	5.4	22.7	2 21	11 35.44	+ 2 58.5	2.281	3.221	6.5	21.1
3 2	11 24.81	+ 0 58.9	2.927	3.907	2.6	22.5	3 2	11 26.70	+ 3 22.1	2.239	3.220	2.9	20.9
3 12	11 17.88	+ 1 51.5	2.921	3.913	0.8	22.3	3 12	11 17.29	+ 3 48.9	2.226	3.219	0.9	20.7
3 22	11 11.09	+ 2 44.6	2.945	3.919	3.5	22.6	3 22	11 8.05	+ 4 15.0	2.244	3.217	4.7	21.0
4 1	11 4.99	+ 3 34.2	3.000	3.925	6.3	22.7	4 1	10 59.78	+ 4 36.4	2.292	3.214	8.2	21.2
4 11	11 0.05	+ 4 17.2	3.082	3.930	8.8	22.9	4 11	10 53.13	+ 4 50.0	2.366	3.210	11.2	21.4
<b>81951</b>	2000 <i>PS</i> <sub>10</sub>		3 9.4 220°09	4°6/ 2.6	18		<b>38781</b>	2000 <i>RN</i> <sub>31</sub>		3 9.4 173°69	2°1/ 11.5	18	
2 1	11 41.18	+17 55.2	2.748	3.563	10.1	20.3	2 1	11 46.44	- 4 25.6	1.968	2.731	15.4	20.0
2 11	11 37.32	+19 16.3	2.664	3.556	7.9	20.1	2 11	11 41.91	- 4 11.1	1.877	2.734	12.4	19.8
2 21	11 31.81	+20 39.7	2.607	3.548	5.7	20.0	2 21	11 35.12	- 3 38.4	1.808	2.737	8.7	19.6
3 2	11 25.08	+21 59.2	2.580	3.540	4.6	19.9	3 2	11 26.63	- 2 49.4	1.765	2.739	4.8	19.3
3 12	11 17.77	+23 8.4	2.582	3.532	5.5	19.9	3 12	11 17.32	- 1 48.8	1.750	2.740	2.1	19.2
3 22	11 10.58	+24 2.6	2.612	3.523	7.6	20.1	3 22	11 8.20	- 0 43.0	1.764	2.741	5.2	19.4
4 1	11 4.19	+24 38.8	2.669	3.514	10.0	20.2	4 1	11 0.26	+ 0 21.0	1.807	2.741	9.2	19.6
4 11	10 59.18	+24 56.0	2.749	3.504	12.2	20.4	4 11	10 54.27	+ 1 16.7	1.874	2.740	12.8	19.8
<b>367749</b>	2010 <i>VU</i> <sub>99</sub>		3 9.4 21°87	6°8/ 14.9	18		<b>14844</b>	1988 <i>VT</i> <sub>3</sub>		3 9.4 53°98	3°3/ 11.9	18	
2 1	11 43.53	-12 15.8	1.535	2.287	19.6	20.1	2 1	11 44.79	- 5 22.8	1.291	2.085	20.4	17.6
2 11	11 40.33	-13 1.9	1.455	2.290	16.5	19.9	2 11	11 41.56	- 5 25.8	1.223	2.097	16.5	17.3
2 21	11 34.40	-13 23.0	1.392	2.295	13.0	19.7	2 21	11 35.31	- 5 3.2	1.173	2.108	11.8	17.1
3 2	11 26.37	-13 16.7	1.351	2.299	9.4	19.5	3 2	11 26.79	- 4 16.6	1.146	2.120	6.7	16.8
3 12	11 17.31	-12 44.3	1.334	2.305	7.0	19.4	3 12	11 17.27	- 3 12.5	1.143	2.133	3.3	16.7
3 22	11 8.48	-11 51.2	1.343	2.310	7.7	19.4	3 22	11 8.20	- 2 0.1	1.166	2.145	6.6	16.9
4 1	11 1.12	-10 45.8	1.376	2.317	10.8	19.6	4 1	11 0.91	- 0 49.8	1.213	2.158	11.5	17.2
4 11	10 56.16	- 9 38.2	1.432	2.324	14.4	19.8	4 11	10 56.33	+ 0 9.3	1.282	2.171	15.9	17.5
<b>269974</b>	2000 <i>TU</i> <sub>7</sub>		3 9.4 88°19	0°5/ 9.9	18		<b>61505</b>	2000 <i>QX</i> <sub>53</sub>		3 9.4 234°59	0°9/ 8.7	18	
2 1	11 44.13												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>104748</b>	2000 <i>HO</i> <sub>12</sub>		3 9.4 331°46	0°1/ 9.6 17			<b>410409</b>	2007 <i>YK</i> <sub>9</sub>		3 9.4 163°96	3°5/ 5.7 18		
2 1	11 41.23	+ 1 53.8	1.848	2.650	14.9	19.7	2 1	11 48.46	+12 41.1	2.266	3.070	12.4	21.9
2 11	11 38.10	+ 2 9.0	1.755	2.640	11.6	19.4	2 11	11 43.09	+13 37.2	2.189	3.077	9.5	21.7
2 21	11 32.72	+ 2 38.3	1.684	2.631	7.8	19.2	2 21	11 35.68	+14 38.2	2.137	3.084	6.4	21.5
3 2	11 25.62	+ 3 18.4	1.639	2.622	3.5	18.9	3 2	11 26.81	+15 38.1	2.113	3.090	3.8	21.3
3 12	11 17.66	+ 4 4.0	1.621	2.614	1.1	18.7	3 12	11 17.30	+16 30.2	2.120	3.095	4.3	21.4
3 22	11 9.84	+ 4 48.8	1.630	2.606	5.7	19.0	3 22	11 8.06	+17 9.3	2.156	3.099	7.1	21.5
4 1	11 3.15	+ 5 26.8	1.666	2.598	9.9	19.2	4 1	10 59.96	+17 32.1	2.219	3.102	10.2	21.7
4 11	10 58.38	+ 5 53.3	1.726	2.592	13.7	19.4	4 11	10 53.66	+17 37.7	2.306	3.104	13.0	21.9
<b>502740</b>	2015 <i>DH</i> <sub>40</sub>		3 9.4 180°81	4°0/ 4.7 17			<b>326681</b>	2002 <i>VK</i> <sub>140</sub>		3 9.4 44°30	2°9/11.5 18		
2 1	11 42.80	+14 10.6	2.318	3.134	11.8	21.0	2 1	11 46.76	- 2 54.9	1.480	2.270	18.5	20.6
2 11	11 38.77	+15 14.7	2.240	3.135	9.0	20.8	2 11	11 42.70	- 3 18.8	1.410	2.282	14.8	20.4
2 21	11 32.87	+16 23.3	2.187	3.135	6.2	20.7	2 21	11 35.87	- 3 24.0	1.360	2.295	10.4	20.1
3 2	11 25.59	+17 29.9	2.162	3.135	4.1	20.5	3 2	11 26.99	- 3 11.7	1.334	2.309	5.8	19.9
3 12	11 17.69	+18 27.9	2.166	3.135	4.8	20.6	3 12	11 17.24	- 2 46.1	1.333	2.323	2.9	19.8
3 22	11 10.01	+19 12.0	2.198	3.134	7.5	20.7	3 22	11 7.91	- 2 13.3	1.359	2.337	6.1	20.0
4 1	11 3.32	+19 38.8	2.257	3.134	10.3	20.9	4 1	11 0.20	- 1 40.2	1.410	2.352	10.6	20.3
4 11	10 58.27	+19 47.4	2.339	3.133	13.0	21.1	4 11	10 54.97	- 1 13.2	1.485	2.367	14.6	20.5
<b>433818</b>	2015 <i>BH</i> <sub>164</sub>		3 9.4 84°05	0°5/ 9.9 18 R			<b>343569</b>	2010 <i>FU</i> <sub>83</sub>		3 9.5 65°22	2°7/ 6.9 18		
2 1	11 45.56	+ 0 59.3	1.972	2.759	14.6	21.2	2 1	11 44.57	+10 19.7	2.052	2.863	13.2	20.8
2 11	11 41.02	+ 1 13.2	1.901	2.776	11.4	21.0	2 11	11 40.24	+10 54.5	1.981	2.875	10.1	20.6
2 21	11 34.37	+ 1 40.4	1.852	2.794	7.6	20.8	2 21	11 33.85	+11 35.5	1.935	2.886	6.6	20.4
3 2	11 26.23	+ 2 17.3	1.829	2.811	3.5	20.6	3 2	11 26.02	+12 17.2	1.916	2.897	3.3	20.2
3 12	11 17.49	+ 2 59.1	1.835	2.828	1.0	20.4	3 12	11 17.60	+12 53.8	1.925	2.909	3.4	20.3
3 22	11 9.10	+ 3 40.0	1.870	2.845	5.1	20.8	3 22	11 9.51	+13 20.3	1.963	2.920	6.6	20.5
4 1	11 1.94	+ 4 14.9	1.933	2.862	9.0	21.0	4 1	11 2.62	+13 33.3	2.027	2.932	10.0	20.7
4 11	10 56.68	+ 4 40.1	2.020	2.878	12.3	21.3	4 11	10 57.55	+13 31.5	2.115	2.943	13.0	20.9
<b>475528</b>	2006 <i>SX</i> <sub>398</sub>		3 9.4 265°73	0°2/ 9.7 17			<b>81598</b>	2000 <i>HJ</i> <sub>55</sub>		3 9.5 275°40	0°7/10.0 18		
2 1	11 43.49	+ 1 54.4	2.505	3.285	12.1	22.2	2 1	11 44.91	+ 0 44.8	1.781	2.574	15.7	20.0
2 11	11 39.30	+ 2 9.5	2.391	3.263	9.5	22.0	2 11	11 41.08	+ 0 52.9	1.686	2.565	12.4	19.7
2 21	11 33.27	+ 2 35.4	2.301	3.242	6.4	21.8	2 21	11 34.79	+ 1 16.0	1.612	2.555	8.4	19.5
3 2	11 25.81	+ 3 9.7	2.238	3.220	2.9	21.5	3 2	11 26.58	+ 1 51.6	1.563	2.545	3.9	19.2
3 12	11 17.59	+ 3 48.4	2.205	3.198	0.9	21.3	3 12	11 17.38	+ 2 34.4	1.542	2.535	1.2	18.9
3 22	11 9.37	+ 4 27.1	2.202	3.175	4.6	21.5	3 22	11 8.29	+ 3 18.3	1.549	2.525	5.8	19.2
4 1	11 1.94	+ 5 1.4	2.227	3.152	8.2	21.7	4 1	11 0.42	+ 3 56.8	1.583	2.515	10.3	19.5
4 11	10 55.97	+ 5 27.3	2.278	3.128	11.4	21.9	4 11	10 54.64	+ 4 24.7	1.639	2.505	14.3	19.7
<b>201478</b>	2003 <i>GT</i> <sub>37</sub>		3 9.4 322°55	2°2/11.3 18			<b>251404</b>	2007 <i>YO</i> <sub>31</sub>		3 9.5 85°54	0°6/ 9.9 18		
2 1	11 42.18	- 4 17.7	1.413	2.209	18.9	20.4	2 1	11 46.57	+ 0 8.4	1.652	2.445	16.7	20.7
2 11	11 39.50	- 3 58.7	1.329	2.206	15.2	20.2	2 11	11 42.20	+ 0 28.5	1.584	2.463	13.1	20.5
2 21	11 33.99	- 3 14.5	1.263	2.202	10.7	19.9	2 21	11 35.35	+ 1 5.4	1.537	2.480	8.7	20.3
3 2	11 26.27	- 2 7.5	1.221	2.199	5.7	19.6	3 2	11 26.72	+ 1 55.0	1.515	2.497	4.0	20.1
3 12	11 17.43	- 0 44.4	1.204	2.195	2.3	19.4	3 12	11 17.37	+ 2 50.7	1.521	2.514	1.2	19.9
3 22	11 8.79	+ 0 44.7	1.213	2.192	6.4	19.6	3 22	11 8.45	+ 3 45.3	1.555	2.531	5.8	20.2
4 1	11 1.65	+ 2 9.0	1.247	2.190	11.5	19.9	4 1	11 1.01	+ 4 32.0	1.616	2.548	10.2	20.5
4 11	10 57.01	+ 3 19.4	1.303	2.187	16.1	20.1	4 11	10 55.80	+ 5 6.1	1.700	2.564	13.9	20.8
<b>415055</b>	2012 <i>BC</i>		3 9.4 335°08	2°0/ 7.9 17			<b>61258</b>	2000 <i>OD</i> <sub>26</sub>		3 9.5 238°44	0°7/ 8.8 17		
2 1	11 41.47	+ 5 44.1	1.344	2.176	17.7	20.7	2 1	11 47.01	+ 3 13.9	1.878	2.672	15.0	20.3
2 11	11 39.11	+ 6 20.4	1.262	2.166	13.8	20.4	2 11	11 42.66	+ 3 47.7	1.775	2.657	11.7	20.1
2 21	11 33.82	+ 7 13.1	1.200	2.156	9.0	20.1	2 21	11 35.84	+ 4 36.3	1.695	2.642	7.8	19.8
3 2	11 26.22	+ 8 15.8	1.162	2.147	3.9	19.7	3 2	11 27.06	+ 5 35.5	1.641	2.625	3.3	19.5
3 12	11 17.45	+ 9 19.3	1.149	2.139	3.1	19.7	3 12	11 17.21	+ 6 38.7	1.616	2.608	1.7	19.3
3 22	11 8.89	+10 13.8	1.161	2.132	8.2	19.9	3 22	11 7.39	+ 7 38.7	1.620	2.590	6.4	19.6
4 1	11 1.90	+10 51.5	1.197	2.125	13.3	20.2	4 1	10 58.73	+ 8 28.5	1.651	2.572	10.8	19.8
4 11	10 57.50	+11 7.9	1.253	2.120	17.7	20.4	4 11	10 52.12	+ 9 3.4	1.705	2.552	14.7	20.0
<b>390638</b>	2002 <i>LZ</i> <sub>62</sub>		3 9.4 258°00	1°5/ 8.3 17			<b>459474</b>	2013 <i>CJ</i> <sub>18</sub>		3 9.5 90°80	3°0/ 6.8 18		
2 1	11 50.14	+ 5 21.5	1.656	2.458	16.3	22.4	2 1	11 44.62	+ 6 53.7	1.464	2.288	17.0	20.7
2 11	11 45.61	+ 5 50.4	1.547	2.434	12.8	22.1	2 11	11 41.11	+ 8 5.5	1.397	2.297	13.0	20.5
2 21	11 38.12	+ 6 33.8	1.460	2.409	8.5	21.8	2 21	11 34.86	+ 9 32.2	1.351	2.306	8.4	20.2
3 2	11 28.16	+ 7 27.0	1.399	2.383	3.7	21.5	3 2	11 26.58	+11 5.2	1.331	2.315	4.0	20.0
3 12	11 16.75	+ 8 22.6	1.365	2.356	2.5	21.3	3 12	11 17.42	+12 33.4	1.338	2.323	4.1	20.0
3 22	11 5.20	+ 9 12.5	1.360	2.328	7.6	21.5	3 22	11 8.66	+13 46.9	1.371	2.332	8.5	20.3
4 1	10 54.93	+ 9 49.4	1.381	2.300	12.7	21.8	4 1	11 1.51	+14 39.0	1.429	2.340	12.9	20.6
4 11	10 47.11	+10 8.6	1.424	2.270	17.2	22.0	4 11	10 56.79	+15 6.7	1.508	2.349	16.7	20.8
<b>441414</b>	2008 <i>GU</i> <sub>36</sub>		3 9.4 219°67	0°5/10.2 17			<b>253275</b>	2003 <i>AK</i> <sub>94</sub>		3 9.5 50°90	11°5/ 2.4 18		
2 1	11 38.54	- 0 50.1	2.902	3.673	10.8	21.5	2 1	12 0.33	+32 47.9	1.504	2.314	17.3	19.5
2 11	11 35.14	- 0 14.8	2.803	3.670	8.4	21.3	2 11	11 53.07	+33 41.6	1.466	2.333	14.6	19.4
2 21	11 30.31	+ 0 32.1	2.728	3.666	5.7	21.2	2 21	11 42.46	+34 19.3	1.449	2.353	12.4	19.3
3 2	11 24.45	+ 1 28.1	2.682	3.662	2.7	20.9	3 2	11 29.69	+34 29.5	1.456	2.373	11.5	19.3
3 12	11 18.10	+ 2 29.2	2.665	3.658	0.8	20.8	3 12	11 16.44	+34 5.1	1.486	2.394	12.3	19.4
3 22	11 11.84	+ 3 30.7	2.679	3.654	3.8	21.0	3 22	11 4.40	+33 6.0	1.541	2.415	14.3	19.6
4 1	11 6.28	+ 4 28.2	2.722	3.649	6.8	21.2	4 1	10 54.85	+31 36.7	1.618	2.436	16.6	19.8
4 11	11 1.89	+ 5 18.0	2.792	3.645	9.5	21.4	4 11	10 48.49	+29 45.3	1.714	2.457	18.9	20.0
<b>228352</b>	2000 <i>SX</i> <sub>303</sub>		3 9.4 172°53	1°1/10.7 16			<b>325868</b>	2010 <i>TN</i> <sub>147</sub>		3 9.5 98°09	2°3/12.1 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>83788</b>	2001 TV <sub>204</sub>		3 9.5 109°74	4.6/ 3.3	18		<b>106700</b>	2000 WX <sub>167</sub>		3 9.5 181°35	19°2/21.5	18	
2 1	11 41.64	+16 23.9	2.488	3.305	11.0	19.7	2 1	12 3.87	+44 1.4	1.226	2.025	21.1	19.4
2 11	11 37.71	+17 48.9	2.425	3.319	8.4	19.5	2 11	11 57.99	+46 29.8	1.195	2.026	19.7	19.3
2 21	11 32.07	+19 16.1	2.388	3.332	6.0	19.4	2 21	11 46.95	+48 30.2	1.183	2.027	19.2	19.3
3 2	11 25.23	+20 38.9	2.380	3.345	4.6	19.3	3 2	11 32.01	+49 43.1	1.188	2.027	19.6	19.3
3 12	11 17.89	+21 50.4	2.401	3.358	5.4	19.4	3 12	11 15.68	+49 56.3	1.211	2.026	20.9	19.4
3 22	11 10.80	+22 45.8	2.451	3.370	7.7	19.5	3 22	11 0.76	+49 8.7	1.251	2.025	22.7	19.5
4 1	11 4.66	+23 22.3	2.528	3.382	10.2	19.7	4 1	10 49.48	+47 28.4	1.305	2.024	24.6	19.7
4 11	11 0.03	+23 39.3	2.626	3.394	12.4	19.9	4 11	10 42.84	+45 8.5	1.370	2.023	26.4	19.8
<b>333606</b>	2007 JW <sub>35</sub>		3 9.5 245°71	4.3/ 4.1	17		<b>187446</b>	2005 WV <sub>115</sub>		3 9.5 57°15	2°6/ 6.1	17	
2 1	11 44.09	+15 10.1	2.440	3.253	11.4	21.3	2 1	11 39.55	+ 9 48.5	2.425	3.237	11.4	20.3
2 11	11 39.86	+16 20.4	2.343	3.235	8.8	21.1	2 11	11 36.15	+10 49.2	2.352	3.246	8.7	20.1
2 21	11 33.68	+17 35.8	2.271	3.216	6.1	20.9	2 21	11 31.08	+11 56.7	2.305	3.256	5.6	19.9
3 2	11 26.02	+18 49.7	2.227	3.197	4.4	20.7	3 2	11 24.83	+13 5.4	2.285	3.266	3.0	19.8
3 12	11 17.59	+19 55.3	2.213	3.177	5.2	20.8	3 12	11 18.09	+14 9.4	2.295	3.276	3.4	19.8
3 22	11 9.22	+20 46.6	2.228	3.157	7.8	20.9	3 22	11 11.57	+15 3.4	2.335	3.286	6.1	20.0
4 1	11 1.73	+21 19.8	2.270	3.136	10.7	21.0	4 1	11 5.95	+15 43.6	2.401	3.296	9.0	20.2
4 11	10 55.84	+21 33.6	2.334	3.114	13.4	21.2	4 11	11 1.79	+16 7.9	2.491	3.306	11.6	20.4
<b>18885</b>	2000 AH <sub>80</sub>		3 9.5 152°77	0°3/ 9.7	18		<b>464417</b>	2016 BH <sub>25</sub>		3 9.5 50°94	0°0/ 9.3	18	
2 1	11 47.36	- 0 15.3	1.706	2.494	16.5	18.7	2 1	11 43.85	+ 1 11.3	1.399	2.212	18.2	21.1
2 11	11 42.89	+ 0 22.2	1.626	2.502	12.9	18.5	2 11	11 40.56	+ 1 44.2	1.334	2.225	14.1	20.9
2 21	11 35.90	+ 1 18.2	1.567	2.510	8.7	18.3	2 21	11 34.51	+ 2 36.2	1.290	2.239	9.3	20.6
3 2	11 27.02	+ 2 28.2	1.535	2.517	3.9	18.0	3 2	11 26.45	+ 3 41.8	1.270	2.254	4.1	20.4
3 12	11 17.29	+ 3 44.8	1.530	2.523	1.2	17.8	3 12	11 17.55	+ 4 52.4	1.275	2.268	1.4	20.2
3 22	11 7.85	+ 4 59.7	1.554	2.528	6.0	18.1	3 22	11 9.12	+ 5 58.7	1.308	2.283	6.7	20.6
4 1	10 59.82	+ 6 5.0	1.605	2.533	10.5	18.4	4 1	11 2.33	+ 6 52.6	1.365	2.298	11.5	20.9
4 11	10 54.02	+ 6 55.2	1.680	2.537	14.4	18.7	4 11	10 58.00	+ 7 29.1	1.443	2.314	15.6	21.2
<b>109278</b>	2001 QP <sub>116</sub>		3 9.5 165°84	2°3/11.9	18		<b>118085</b>	2019 T-3		3 9.5 120°04	2°9/13.2	18	
2 1	11 45.76	- 5 23.3	2.418	3.164	13.4	20.9	2 1	11 42.67	- 8 8.8	2.834	3.563	12.0	19.5
2 11	11 40.95	- 5 17.6	2.324	3.170	10.8	20.7	2 11	11 38.28	- 8 12.6	2.747	3.577	9.8	19.4
2 21	11 34.28	- 4 56.9	2.253	3.175	7.7	20.5	2 21	11 32.37	- 8 2.6	2.682	3.590	7.2	19.2
3 2	11 26.24	- 4 22.5	2.210	3.179	4.4	20.3	3 2	11 25.38	- 7 39.6	2.645	3.604	4.6	19.1
3 12	11 17.56	- 3 37.7	2.195	3.183	2.3	20.2	3 12	11 17.93	- 7 5.9	2.636	3.617	3.0	19.0
3 22	11 9.04	- 2 47.2	2.211	3.186	4.4	20.3	3 22	11 10.64	- 6 25.1	2.658	3.630	4.0	19.1
4 1	11 1.48	- 1 56.2	2.256	3.188	7.7	20.5	4 1	11 4.16	- 5 41.4	2.709	3.642	6.5	19.3
4 11	10 55.51	- 1 9.7	2.327	3.190	10.7	20.7	4 11	10 58.99	- 4 59.2	2.786	3.654	9.0	19.4
<b>496902</b>	2001 QB <sub>143</sub>		3 9.5 165°98	5°3/29.7	18		<b>458297</b>	2010 UV <sub>96</sub>		3 9.5 71°02	9°1/ 4.8	16	
2 1	11 44.67	+26 2.3	3.442	4.243	8.6	23.1	2 1	12 10.30	+29 23.4	1.680	2.468	16.7	20.9
2 11	11 39.61	+27 8.1	3.378	4.249	7.0	23.0	2 11	12 0.11	+29 46.5	1.635	2.497	13.7	20.7
2 21	11 33.13	+28 10.2	3.340	4.255	5.7	22.9	2 21	11 46.77	+29 56.1	1.614	2.526	10.8	20.6
3 2	11 25.66	+29 3.5	3.332	4.261	5.3	22.9	3 2	11 31.49	+29 42.7	1.619	2.555	9.2	20.6
3 12	11 17.78	+29 43.8	3.353	4.265	6.0	22.9	3 12	11 15.96	+29 0.8	1.652	2.583	9.7	20.7
3 22	11 10.08	+30 8.4	3.403	4.269	7.4	23.0	3 22	11 1.80	+27 51.0	1.714	2.611	11.8	20.9
4 1	11 3.16	+30 16.1	3.478	4.273	9.0	23.2	4 1	10 50.22	+26 18.1	1.803	2.639	14.4	21.1
4 11	10 57.48	+30 7.6	3.576	4.275	10.5	23.3	4 11	10 41.88	+24 29.2	1.913	2.667	16.8	21.3
<b>459904</b>	2014 MD <sub>12</sub>		3 9.5 240°05	1°9/11.0	17		<b>238437</b>	2004 PS <sub>25</sub>		3 9.5 143°71	0°4/ 9.8	18	
2 1	11 47.47	- 2 48.1	1.820	2.594	16.1	22.4	2 1	11 49.66	+ 1 10.8	1.811	2.595	15.8	21.1
2 11	11 43.15	- 2 41.3	1.714	2.579	13.0	22.2	2 11	11 44.50	+ 1 25.6	1.732	2.606	12.4	20.9
2 21	11 36.25	- 2 16.4	1.629	2.563	9.1	21.9	2 21	11 36.88	+ 1 54.8	1.675	2.616	8.3	20.7
3 2	11 27.29	- 1 34.8	1.570	2.547	4.8	21.6	3 2	11 27.45	+ 2 35.0	1.643	2.625	3.7	20.4
3 12	11 17.17	- 0 41.0	1.538	2.529	2.0	21.4	3 12	11 17.23	+ 3 20.5	1.641	2.634	1.1	20.2
3 22	11 7.04	+ 0 18.5	1.535	2.511	5.8	21.6	3 22	11 7.33	+ 4 5.0	1.668	2.642	5.7	20.6
4 1	10 58.07	+ 1 16.3	1.559	2.493	10.4	21.8	4 1	10 58.82	+ 4 42.6	1.722	2.649	10.0	20.8
4 11	10 51.24	+ 2 5.4	1.607	2.473	14.5	22.0	4 11	10 52.49	+ 5 9.0	1.800	2.656	13.7	21.1
<b>140966</b>	2001 VV <sub>112</sub>		3 9.5 79°00	1°9/ 7.4	18		<b>99351</b>	2001 XV <sub>119</sub>		3 9.5 357°13	5°0/ 5.6	18	
2 1	11 43.67	+ 8 27.8	2.315	3.118	12.2	19.9	2 1	11 45.70	+12 40.2	1.391	2.228	17.0	18.8
2 11	11 39.28	+ 9 1.5	2.246	3.135	9.3	19.8	2 11	11 42.24	+13 39.9	1.321	2.226	13.1	18.5
2 21	11 33.11	+ 9 41.9	2.201	3.151	6.0	19.6	2 21	11 35.80	+14 48.4	1.272	2.226	8.8	18.3
3 2	11 25.69	+10 24.4	2.185	3.168	2.8	19.4	3 2	11 27.09	+15 56.0	1.247	2.225	5.4	18.1
3 12	11 17.79	+11 3.8	2.198	3.184	2.6	19.4	3 12	11 17.34	+16 52.1	1.248	2.225	6.1	18.1
3 22	11 10.19	+11 35.5	2.240	3.200	5.6	19.6	3 22	11 7.98	+17 28.4	1.274	2.225	10.1	18.3
4 1	11 3.64	+11 56.3	2.309	3.217	8.8	19.9	4 1	11 0.33	+17 40.1	1.323	2.226	14.4	18.6
4 11	10 58.69	+12 4.3	2.403	3.233	11.6	20.1	4 11	10 55.33	+17 26.8	1.392	2.226	18.1	18.8
<b>52371</b>	1993 FV <sub>49</sub>		3 9.5 144°95	0°4/ 9.9	18		<b>202897</b>	1995 DE <sub>9</sub>		3 9.5 117°28	0°7/ 8.8	18	
2 1	11 42.06	+ 0 33.2	2.782	3.554	11.2	20.0	2 1	11 49.16	+ 3 37.4	1.776	2.571	15.7	21.3
2 11	11 37.82	+ 0 57.3	2.695	3.563	8.7	19.8	2 11	11 44.05	+ 4 8.8	1.707	2.589	12.1	21.1
2 21	11 32.07	+ 1 31.7	2.632	3.571	5.8	19.6	2 21	11 36.52	+ 4 53.5	1.660	2.606	7.9	20.8
3 2	11 25.24	+ 2 14.0	2.598	3.579	2.7	19.4	3 2	11 27.26	+ 5 46.2	1.639	2.623	3.3	20.6
3 12	11 17.93	+ 3 0.0	2.593	3.586	0.8	19.3	3 12	11 17.31	+ 6 40.3	1.647	2.639	1.7	20.5
3 22	11 10.80	+ 3 45.8	2.619	3.593	4.0	19.5	3 22	11 7.79	+ 7 28.8	1.684	2.655	6.1	20.8
4 1	11 4.46	+ 4 27.2	2.675	3.600	7.0	19.7	4 1	10 59.71	+ 8 6.4	1.748	2.669	10.3	21.1
4 11	10 59.42	+ 5 1.0	2.757	3.606	9.7	19.9	4 11	10 53.82	+ 8 29.7	1.836	2.684	13.8	21.4
<b>420818</b>	2013 HW <sub>73</sub>		3 9.5 230°80	2°3/11.6	14 C		<b>420804</b>	2013 HD <sub>12</sub>		3 9.5 286°09	3°4/ 6.2	17	
2 1	11 45.19	- 4 39.9	1.959	2.724	15.4	22.5							

EPHEMERIDES

3 9.5

3 9.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>93908</b>	2000 WE <sub>154</sub>		3 9.5 88°74	2°2/11.5 18			<b>178963</b>	2001 QO <sub>213</sub>		3 9.5 225°82	0°2/ 9.7 17		
2 1	11 46.87	- 3 4.9	1.966	2.734	15.3	19.9	2 1	11 44.28	+ 0 28.0	2.159	2.940	13.7	21.6
2 11	11 42.12	- 3 14.2	1.889	2.749	12.2	19.7	2 11	11 40.18	+ 0 59.5	2.057	2.930	10.8	21.4
2 21	11 35.19	- 3 8.1	1.834	2.764	8.6	19.5	2 21	11 34.01	+ 1 45.7	1.978	2.920	7.2	21.1
3 2	11 26.69	- 2 48.3	1.805	2.779	4.7	19.3	3 2	11 26.24	+ 2 43.2	1.927	2.909	3.3	20.9
3 12	11 17.51	- 2 18.5	1.805	2.794	2.3	19.2	3 12	11 17.66	+ 3 46.8	1.905	2.897	1.0	20.7
3 22	11 8.66	- 1 43.7	1.833	2.809	5.0	19.4	3 22	11 9.15	+ 4 50.3	1.912	2.885	5.2	20.9
4 1	11 1.05	- 1 9.3	1.888	2.823	8.8	19.6	4 1	11 1.63	+ 5 47.3	1.947	2.873	9.1	21.1
4 11	10 55.38	- 0 40.2	1.969	2.838	12.1	19.9	4 11	10 55.83	+ 6 33.1	2.007	2.860	12.6	21.3
<b>378699</b>	2008 LE <sub>17</sub>		3 9.5 254°63	1°6/ 7.7 17			<b>31493</b>	Fernando-Peiris		3 9.5 306°67	3°9/ 6.5 18		
2 1	11 43.37	+ 5 23.6	2.093	2.894	13.4	22.0	2 1	11 45.57	+ 11 43.7	1.620	2.446	15.5	18.7
2 11	11 39.60	+ 6 15.3	1.990	2.877	10.4	21.8	2 11	11 41.96	+ 12 19.6	1.528	2.428	12.0	18.5
2 21	11 33.70	+ 7 19.9	1.910	2.860	6.8	21.5	2 21	11 35.60	+ 13 3.6	1.457	2.410	8.1	18.2
3 2	11 26.13	+ 8 32.5	1.858	2.842	3.0	21.2	3 2	11 27.06	+ 13 48.8	1.412	2.392	4.5	17.9
3 12	11 17.67	+ 9 46.2	1.835	2.823	2.5	21.1	3 12	11 17.37	+ 14 27.0	1.393	2.375	4.8	17.9
3 22	11 9.24	+ 10 53.9	1.840	2.804	6.4	21.4	3 22	11 7.79	+ 14 51.0	1.401	2.358	8.7	18.1
4 1	11 1.80	+ 11 49.4	1.874	2.785	10.3	21.5	4 1	10 59.59	+ 14 56.0	1.433	2.341	13.1	18.3
4 11	10 56.12	+ 12 28.5	1.930	2.765	13.8	21.7	4 11	10 53.76	+ 14 40.5	1.486	2.325	17.0	18.5
<b>304547</b>	2006 UC <sub>314</sub>		3 9.5 218°50	3°1/ 5.6 17			<b>497634</b>	2006 QV <sub>184</sub>		3 9.5 144°67	0°6/10.3 18		
2 1	11 42.20	+ 12 52.9	2.574	3.384	10.9	21.0	2 1	11 41.25	- 0 40.5	3.028	3.792	10.5	22.6
2 11	11 38.16	+ 13 41.0	2.488	3.380	8.3	20.8	2 11	11 37.09	- 0 11.4	2.941	3.803	8.2	22.4
2 21	11 32.43	+ 14 33.5	2.428	3.377	5.6	20.6	2 21	11 31.56	+ 0 28.1	2.878	3.813	5.5	22.3
3 2	11 25.46	+ 15 25.2	2.396	3.373	3.4	20.5	3 2	11 25.04	+ 1 15.5	2.843	3.823	2.6	22.1
3 12	11 17.93	+ 16 10.9	2.394	3.369	3.8	20.5	3 12	11 18.10	+ 2 7.2	2.840	3.832	0.8	21.9
3 22	11 10.55	+ 16 46.0	2.421	3.365	6.4	20.6	3 22	11 11.32	+ 2 59.1	2.867	3.841	3.6	22.2
4 1	11 4.05	+ 17 7.5	2.475	3.361	9.2	20.8	4 1	11 5.26	+ 3 47.3	2.924	3.849	6.4	22.3
4 11	10 59.00	+ 17 13.9	2.553	3.357	11.7	21.0	4 11	11 0.39	+ 4 28.4	3.008	3.857	8.9	22.5
<b>87830</b>	2000 SL <sub>173</sub>		3 9.5 111°95	6°5/16.2 18			<b>92997</b>	2000 RH <sub>78</sub>		3 9.5 99°38	1°6/10.9 18		
2 1	11 43.96	- 16 7.9	2.050	2.754	16.7	19.4	2 1	11 46.08	- 3 39.7	1.679	2.458	17.1	19.1
2 11	11 40.03	- 16 37.1	1.962	2.761	14.3	19.2	2 11	11 41.82	- 3 8.2	1.610	2.478	13.5	18.9
2 21	11 33.93	- 16 43.5	1.892	2.768	11.5	19.0	2 21	11 35.13	- 2 16.0	1.562	2.497	9.3	18.7
3 2	11 26.19	- 16 25.3	1.846	2.775	8.7	18.8	3 2	11 26.70	- 1 6.8	1.538	2.516	4.7	18.4
3 12	11 17.67	- 15 43.8	1.825	2.782	6.8	18.7	3 12	11 17.56	+ 0 12.4	1.543	2.535	1.7	18.3
3 22	11 9.33	- 14 43.3	1.831	2.789	7.0	18.8	3 22	11 8.83	+ 1 33.0	1.576	2.553	5.6	18.6
4 1	11 2.11	- 13 30.6	1.864	2.796	9.1	18.9	4 1	11 1.54	+ 2 46.8	1.636	2.571	9.9	18.9
4 11	10 56.77	- 12 14.1	1.922	2.802	11.9	19.1	4 11	10 56.44	+ 3 47.4	1.720	2.588	13.6	19.1
<b>348925</b>	2006 TR <sub>28</sub>		3 9.5 205°91	0°6/ 8.7 17			<b>502185</b>	2015 BK <sub>66</sub>		3 9.5 151°76	0°6/10.1 17		
2 1	11 41.87	+ 4 19.4	2.842	3.626	10.7	22.3	2 1	11 45.07	+ 0 53.0	2.123	2.905	13.9	21.7
2 11	11 37.75	+ 4 49.8	2.744	3.621	8.2	22.2	2 11	11 40.69	+ 1 1.3	2.035	2.908	10.9	21.5
2 21	11 32.09	+ 5 28.9	2.672	3.616	5.4	22.0	2 21	11 34.26	+ 1 22.1	1.970	2.910	7.3	21.3
3 2	11 25.30	+ 6 13.3	2.628	3.611	2.3	21.7	3 2	11 26.32	+ 1 52.6	1.932	2.913	3.4	21.1
3 12	11 17.99	+ 6 59.0	2.614	3.605	1.3	21.6	3 12	11 17.67	+ 2 28.5	1.922	2.915	1.0	20.9
3 22	11 10.78	+ 7 41.9	2.631	3.599	4.4	21.9	3 22	11 9.23	+ 3 4.8	1.942	2.917	4.9	21.2
4 1	11 4.31	+ 8 18.1	2.677	3.593	7.4	22.1	4 1	11 1.86	+ 3 36.6	1.989	2.919	8.7	21.4
4 11	10 59.12	+ 8 44.8	2.749	3.586	10.1	22.2	4 11	10 56.26	+ 3 59.9	2.062	2.921	12.1	21.6
<b>135065</b>	2001 PF <sub>18</sub>		3 9.5 117°14	0°3/ 9.2 18			<b>358013</b>	2006 DR <sub>137</sub>		3 9.5 56°65	2°6/ 7.4 18		
2 1	11 46.82	+ 4 36.9	2.474	3.257	12.1	19.6	2 1	11 44.36	+ 5 21.9	1.270	2.101	18.7	21.3
2 11	11 41.63	+ 4 41.5	2.393	3.268	9.4	19.4	2 11	11 41.17	+ 6 27.7	1.214	2.117	14.3	21.1
2 21	11 34.65	+ 4 54.0	2.336	3.280	6.1	19.2	2 21	11 35.02	+ 7 50.8	1.178	2.134	9.2	20.8
3 2	11 26.40	+ 5 11.4	2.308	3.291	2.6	19.0	3 2	11 26.71	+ 9 21.8	1.166	2.151	4.1	20.6
3 12	11 17.63	+ 5 30.2	2.309	3.301	1.1	18.9	3 12	11 17.56	+ 10 49.0	1.180	2.168	3.7	20.6
3 22	11 9.12	+ 5 46.7	2.341	3.312	4.6	19.1	3 22	11 8.99	+ 12 1.6	1.219	2.186	8.5	20.9
4 1	11 1.60	+ 5 57.6	2.402	3.322	7.9	19.4	4 1	11 2.25	+ 12 52.3	1.283	2.204	13.2	21.2
4 11	10 55.66	+ 6 0.7	2.488	3.332	10.8	19.6	4 11	10 58.16	+ 13 18.3	1.366	2.222	17.2	21.5
<b>66823</b>	1999 UA <sub>25</sub>		3 9.5 229°86	4°5/14.3 18			<b>6275</b>	Kiryu		3 9.5 309°94	0°8/ 8.7 18		
2 1	11 42.16	- 11 41.2	2.216	2.942	15.0	19.6	2 1	11 43.22	+ 4 27.5	2.087	2.886	13.5	17.5
2 11	11 38.52	- 11 46.0	2.113	2.937	12.5	19.4	2 11	11 39.33	+ 4 53.3	2.000	2.885	10.4	17.3
2 21	11 32.90	- 11 30.8	2.031	2.931	9.6	19.2	2 21	11 33.40	+ 5 30.0	1.936	2.884	6.8	17.0
3 2	11 25.75	- 10 55.1	1.974	2.925	6.6	19.0	3 2	11 25.96	+ 6 13.7	1.899	2.883	2.9	16.8
3 12	11 17.83	- 10 1.3	1.944	2.919	4.6	18.9	3 12	11 17.82	+ 6 58.9	1.891	2.883	1.6	16.7
3 22	11 9.98	- 8 54.3	1.942	2.913	5.5	18.9	3 22	11 9.87	+ 7 40.1	1.911	2.882	5.5	17.0
4 1	11 3.09	- 7 40.5	1.969	2.906	8.3	19.1	4 1	11 2.99	+ 8 12.5	1.959	2.881	9.3	17.2
4 11	10 57.86	- 6 27.2	2.021	2.899	11.4	19.2	4 11	10 57.85	+ 8 32.5	2.031	2.880	12.6	17.4
<b>189258</b>	2004 VQ <sub>54</sub>		3 9.5 156°87	4°3/14.1 17			<b>412920</b>	2014 QX <sub>144</sub>		3 9.5 107°96	0°0/ 9.3 18		
2 1	11 45.60	- 11 4.1	2.444	3.160	14.0	20.6	2 1	11 44.43	+ 0 20.7	1.714	2.509	16.1	21.6
2 11	11 40.88	- 11 23.0	2.349	3.166	11.7	20.5	2 11	11 40.59	+ 1 6.1	1.640	2.521	12.5	21.4
2 21	11 34.28	- 11 24.8	2.277	3.172	8.9	20.3	2 21	11 34.37	+ 2 9.4	1.587	2.532	8.3	21.2
3 2	11 26.30	- 11 9.3	2.229	3.178	6.2	20.1	3 2	11 26.41	+ 3 25.6	1.560	2.543	3.6	20.9
3 12	11 17.65	- 10 38.4	2.210	3.183	4.4	20.0	3 12	11 17.69	+ 4 46.7	1.562	2.554	1.2	20.8
3 22	11 9.15	- 9 55.6	2.221	3.187	5.2	20.1	3 22	11 9.29	+ 6 4.5	1.591	2.565	6.0	21.1
4 1	11 1.60	- 9 6.2	2.260	3.191	7.7	20.2	4 1	11 2.26	+ 7 11.2	1.647	2.575	10.3	21.4
4 11	10 55.63	- 8 15.8	2.325	3.195	10.5	20.4	4 11	10 57.33	+ 8 1.6	1.727	2.585	14.1	21.6
<b>372597</b>	2009 UN <sub>145</sub>		3 9.5 156°58	6°0/ 2.7 17			<b>208213</b>	2000 SW <sub>83</sub>		3 9.5 142°42	1°0/ 8.5 18		
2 1	11 46.24	+ 20 13.7	2.195	3.013									



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>215885</b>	2005 <i>EW</i> <sub>323</sub>		3 9.5	1 <sup>o</sup> 79	0 <sup>o</sup> 7/10.0	18	<b>78832</b>	2003 <i>QN</i> <sub>26</sub>		3 9.5	202 <sup>o</sup> 42	0 <sup>o</sup> 9/10.6	18
2 1	11 39.01	- 1 11.0	1.268	2.088	19.3	20.0	2 1	11 42.28	- 2 6.3	2.589	3.353	12.1	20.6
2 11	11 37.28	- 0 38.3	1.193	2.087	15.2	19.7	2 11	11 38.26	- 1 34.4	2.487	3.348	9.6	20.4
2 21	11 32.67	+ 0 19.3	1.137	2.086	10.3	19.4	2 21	11 32.55	- 0 48.6	2.410	3.344	6.6	20.2
3 2	11 25.81	+ 1 37.2	1.103	2.086	4.8	19.1	3 2	11 25.58	+ 0 8.4	2.360	3.338	3.2	20.0
3 12	11 17.88	+ 3 6.1	1.094	2.087	1.3	18.9	3 12	11 18.00	+ 1 12.4	2.340	3.332	1.0	19.8
3 22	11 10.23	+ 4 34.6	1.110	2.089	7.0	19.2	3 22	11 10.52	+ 2 18.1	2.350	3.326	4.2	20.0
4 1	11 4.20	+ 5 51.7	1.150	2.092	12.3	19.5	4 1	11 3.84	+ 3 20.3	2.390	3.319	7.5	20.2
4 11	11 0.73	+ 6 49.3	1.211	2.096	16.9	19.8	4 11	10 58.56	+ 4 14.4	2.456	3.311	10.5	20.4
<b>92449</b>	2000 <i>KU</i> <sub>10</sub>		3 9.5	269 <sup>o</sup> 62	6 <sup>o</sup> 6/14.9	17	<b>81991</b>	2000 <i>QN</i> <sub>162</sub>		3 9.5	206 <sup>o</sup> 04	3 <sup>o</sup> 7/13.7	18
2 1	11 43.63	-13 23.0	1.612	2.353	19.2	20.8	2 1	11 41.19	- 9 41.0	2.402	3.136	13.8	19.9
2 11	11 40.62	-13 45.9	1.508	2.337	16.4	20.5	2 11	11 37.57	- 9 45.1	2.304	3.135	11.4	19.7
2 21	11 34.86	-13 42.1	1.421	2.322	12.9	20.3	2 21	11 32.17	- 9 31.9	2.229	3.135	8.6	19.5
3 2	11 26.83	-13 8.5	1.357	2.305	9.3	20.0	3 2	11 25.44	- 9 1.8	2.178	3.135	5.7	19.3
3 12	11 17.50	-12 6.3	1.317	2.289	6.7	19.8	3 12	11 18.05	- 8 17.2	2.155	3.134	3.8	19.2
3 22	11 8.10	-10 41.0	1.303	2.273	7.6	19.8	3 22	11 10.79	- 7 22.6	2.161	3.134	4.8	19.3
4 1	11 05.96	- 9 2.4	1.314	2.256	11.1	19.9	4 1	11 4.41	- 6 23.3	2.196	3.133	7.6	19.4
4 11	10 54.18	- 7 22.5	1.348	2.239	15.2	20.1	4 11	10 59.52	- 5 25.4	2.256	3.132	10.5	19.6
<b>53977</b>	2000 <i>GM</i> <sub>70</sub>		3 9.5	315 <sup>o</sup> 72	3 <sup>o</sup> 6/12.2	18	<b>424980</b>	2009 <i>BY</i> <sub>121</sub>		3 9.5	144 <sup>o</sup> 24	2 <sup>o</sup> 4/12.1	17
2 1	11 40.36	- 6 18.0	1.297	2.095	20.2	18.5	2 1	11 44.54	- 4 41.4	2.542	3.291	12.7	21.6
2 11	11 38.51	- 6 16.1	1.206	2.081	16.5	18.2	2 11	11 39.96	- 4 51.1	2.449	3.296	10.2	21.4
2 21	11 33.67	- 5 46.3	1.132	2.067	12.1	17.9	2 21	11 33.64	- 4 47.9	2.380	3.301	7.3	21.2
3 2	11 26.35	- 4 48.6	1.080	2.054	7.1	17.6	3 2	11 26.05	- 4 32.6	2.337	3.306	4.3	21.0
3 12	11 17.66	- 3 28.1	1.052	2.042	3.6	17.3	3 12	11 17.86	- 4 7.9	2.324	3.311	2.4	20.9
3 22	11 9.02	- 1 54.6	1.049	2.030	6.9	17.5	3 22	11 9.84	- 3 37.4	2.341	3.316	4.2	21.0
4 1	11 1.89	- 0 20.6	1.070	2.018	12.2	17.7	4 1	11 2.70	- 3 5.3	2.387	3.320	7.3	21.2
4 11	10 57.45	+ 1 2.2	1.111	2.008	17.2	18.0	4 11	10 57.04	- 2 35.8	2.458	3.324	10.1	21.4
<b>455583</b>	2004 <i>RH</i> <sub>299</sub>		3 9.5	239 <sup>o</sup> 99	0 <sup>o</sup> 2/ 9.7	17	<b>494679</b>	2003 <i>SZ</i> <sub>197</sub>		3 9.5	213 <sup>o</sup> 74	1 <sup>o</sup> 6/ 7.9	17
2 1	11 45.50	- 0 12.8	1.816	2.603	15.7	22.5	2 1	11 47.18	+ 6 0.7	2.077	2.873	13.7	22.7
2 11	11 41.63	+ 0 26.8	1.712	2.589	12.4	22.3	2 11	11 42.51	+ 6 43.0	1.981	2.865	10.6	22.4
2 21	11 35.27	+ 1 25.5	1.631	2.573	8.4	22.0	2 21	11 35.61	+ 7 36.6	1.908	2.856	6.9	22.2
3 2	11 26.92	+ 2 39.6	1.575	2.557	3.8	21.7	3 2	11 27.00	+ 8 36.6	1.863	2.847	3.0	21.9
3 12	11 17.49	+ 4 2.4	1.547	2.540	1.2	21.4	3 12	11 17.53	+ 9 36.6	1.847	2.836	2.4	21.9
3 22	11 8.07	+ 5 25.5	1.548	2.522	6.1	21.7	3 22	11 8.16	+10 29.9	1.861	2.825	6.3	22.1
4 1	10 59.79	+ 6 40.3	1.577	2.504	10.8	22.0	4 1	10 59.89	+11 11.2	1.903	2.813	10.2	22.3
4 11	10 53.59	+ 7 40.4	1.629	2.485	14.9	22.2	4 11	10 53.49	+11 37.1	1.968	2.801	13.6	22.5
<b>100919</b>	1998 <i>KU</i> <sub>54</sub>		3 9.5	263 <sup>o</sup> 34	0 <sup>o</sup> 3/ 9.2	17	<b>508669</b>	2017 <i>UV</i> <sub>10</sub>		3 9.5	245 <sup>o</sup> 68	0 <sup>o</sup> 8/ 8.7	17
2 1	11 42.92	+ 0 19.3	1.863	2.656	15.1	19.8	2 1	11 44.66	+ 4 16.2	2.208	3.000	13.1	22.2
2 11	11 39.61	+ 1 14.3	1.754	2.635	11.9	19.5	2 11	11 40.47	+ 4 45.9	2.105	2.986	10.2	21.9
2 21	11 33.93	+ 2 29.4	1.668	2.614	8.0	19.3	2 21	11 34.22	+ 5 27.0	2.025	2.971	6.7	21.7
3 2	11 26.34	+ 4 0.3	1.608	2.592	3.5	18.9	3 2	11 26.39	+ 6 15.6	1.973	2.956	2.9	21.4
3 12	11 17.68	+ 5 39.6	1.577	2.569	1.4	18.7	3 12	11 17.73	+ 7 6.5	1.950	2.941	1.6	21.3
3 22	11 8.99	+ 7 18.1	1.574	2.547	6.3	19.0	3 22	11 9.13	+ 7 53.9	1.956	2.925	5.5	21.5
4 1	11 1.34	+ 8 46.7	1.599	2.523	10.9	19.2	4 1	11 1.49	+ 8 32.7	1.990	2.909	9.4	21.7
4 11	10 55.66	+ 9 58.3	1.648	2.500	14.9	19.4	4 11	10 55.54	+ 8 59.2	2.049	2.892	12.8	21.9
<b>293703</b>	2007 <i>PL</i> <sub>49</sub>		3 9.5	296 <sup>o</sup> 21	0 <sup>o</sup> 8/10.0	14	<b>221062</b>	2005 <i>QX</i> <sub>160</sub>		3 9.5	76 <sup>o</sup> 45	0 <sup>o</sup> 9/ 8.5	18
2 1	11 45.89	+ 1 4.8	1.414	2.222	18.3	20.9	2 1	11 41.24	+ 1 1.7	1.753	2.555	15.5	20.3
2 11	11 42.86	+ 1 4.6	1.306	2.193	14.7	20.6	2 11	11 38.09	+ 2 18.6	1.681	2.567	12.0	20.1
2 21	11 36.67	+ 1 22.4	1.217	2.164	10.1	20.3	2 21	11 32.71	+ 3 54.2	1.631	2.580	7.8	19.9
3 2	11 27.76	+ 1 56.2	1.151	2.134	4.8	19.9	3 2	11 25.71	+ 5 41.7	1.608	2.592	3.2	19.6
3 12	11 17.15	+ 2 40.7	1.111	2.104	1.4	19.5	3 12	11 18.00	+ 7 31.6	1.613	2.605	1.9	19.5
3 22	11 6.28	+ 3 28.1	1.097	2.074	7.3	19.8	3 22	11 10.61	+ 9 14.1	1.647	2.617	6.4	19.9
4 1	10 56.75	+ 4 9.6	1.107	2.045	13.1	20.0	4 1	11 4.47	+10 41.1	1.708	2.629	10.5	20.1
4 11	10 49.89	+ 4 37.9	1.137	2.015	18.4	20.2	4 11	11 0.30	+11 47.4	1.793	2.641	14.1	20.4
<b>310992</b>	2003 <i>WH</i> <sub>90</sub>		3 9.5	36 <sup>o</sup> 67	1 <sup>o</sup> 4/ 8.4	18	<b>498364</b>	2007 <i>VS</i> <sub>324</sub>		3 9.5	123 <sup>o</sup> 97	6 <sup>o</sup> 6/17.9	17
2 1	11 43.26	+ 4 5.5	1.364	2.188	18.0	20.3	2 1	11 42.51	-20 4.0	2.591	3.250	14.5	21.8
2 11	11 40.25	+ 4 46.3	1.298	2.197	13.9	20.1	2 11	11 38.51	-20 30.5	2.498	3.260	12.6	21.7
2 21	11 34.42	+ 5 44.0	1.253	2.206	9.0	19.8	2 21	11 32.75	-20 36.4	2.424	3.268	10.5	21.6
3 2	11 26.50	+ 6 52.1	1.231	2.216	3.8	19.5	3 2	11 25.69	-20 20.3	2.373	3.277	8.4	21.4
3 12	11 17.69	+ 8 1.0	1.235	2.226	2.4	19.5	3 12	11 18.01	-19 42.9	2.349	3.285	6.8	21.3
3 22	11 9.30	+ 9 1.4	1.265	2.237	7.5	19.8	3 22	11 10.47	-18 47.3	2.352	3.294	6.7	21.3
4 1	11 2.58	+ 9 45.9	1.320	2.249	12.3	20.1	4 1	11 3.83	-17 38.8	2.382	3.301	8.0	21.4
4 11	10 58.36	+10 10.6	1.395	2.260	16.4	20.4	4 11	10 58.68	-16 24.1	2.439	3.309	10.0	21.6
<b>5609</b>	<i>Stroncone</i>		3 9.5	247 <sup>o</sup> 89	0 <sup>o</sup> 1/ 9.3	18	<b>183442</b>	2003 <i>AL</i> <sub>90</sub>		3 9.5	42 <sup>o</sup> 06	6 <sup>o</sup> 6/ 2.4	18
2 1	11 42.08	+ 2 38.3	2.572	3.356	11.7	18.2	2 1	11 44.27	+21 44.8	2.019	2.845	12.9	19.8
2 11	11 38.14	+ 3 2.3	2.469	3.344	9.1	18.0	2 11	11 40.21	+22 55.2	1.961	2.854	10.2	19.6
2 21	11 32.49	+ 3 36.7	2.390	3.333	6.0	17.8	2 21	11 33.98	+24 3.5	1.926	2.862	7.8	19.5
3 2	11 25.56	+ 4 18.6	2.338	3.321	2.6	17.5	3 2	11 26.22	+25 1.6	1.918	2.871	6.6	19.4
3 12	11 17.99	+ 5 3.7	2.316	3.309	1.0	17.4	3 12	11 17.85	+25 42.2	1.937	2.880	7.6	19.5
3 22	11 10.49	+ 5 47.4	2.324	3.296	4.5	17.6	3 22	11 9.87	+26 1.1	1.983	2.890	9.9	19.6
4 1	11 3.78	+ 6 25.5	2.361	3.284	7.9	17.8	4 1	11 3.16	+25 56.7	2.052	2.900	12.5	19.8
4 11	10 58.48	+ 6 54.4	2.423	3.271	10.9	18.0	4 11	10 58.39	+25 30.5	2.142	2.909	14.8	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>172647</b>	2003 YC <sub>56</sub>		3 9.5	22°67'	5°4/4.9	18	<b>323757</b>	2005 OU <sub>10</sub>		3 9.5	203°45'	2°7/7.0	18
2 1	11 44.58	+13 32.2	1.507	2.342	16.0	19.8	2 1	11 47.24	+9 52.6	2.013	2.819	13.6	21.1
2 11	11 41.17	+14 45.7	1.439	2.344	12.3	19.6	2 11	11 42.56	+10 29.9	1.926	2.817	10.5	20.8
2 21	11 35.01	+16 6.8	1.393	2.346	8.4	19.4	2 21	11 35.63	+11 14.8	1.864	2.813	6.9	20.6
3 2	11 26.79	+17 25.9	1.372	2.348	5.6	19.2	3 2	11 27.01	+12 1.8	1.828	2.810	3.5	20.4
3 12	11 17.65	+18 32.3	1.377	2.350	6.5	19.2	3 12	11 17.60	+12 44.3	1.822	2.806	3.5	20.4
3 22	11 8.88	+19 17.9	1.409	2.353	10.0	19.5	3 22	11 8.39	+13 16.5	1.844	2.801	6.9	20.6
4 1	11 1.68	+19 38.1	1.463	2.355	13.9	19.7	4 1	11 0.38	+13 34.5	1.893	2.797	10.6	20.8
4 11	10 56.92	+19 32.9	1.538	2.359	17.4	19.9	4 11	10 54.31	+13 36.4	1.965	2.791	13.9	21.0
<b>355905</b>	2008 WA <sub>104</sub>		3 9.5	32°47'	3°9/12.3	18	<b>125323</b>	2001 VL <sub>41</sub>		3 9.5	2°79'	6°0/5.1	18
2 1	11 45.26	-5 29.5	1.332	2.122	20.1	20.8	2 1	11 42.57	+12 53.6	1.149	2.002	18.7	18.3
2 11	11 42.03	-5 50.6	1.257	2.127	16.4	20.5	2 11	11 40.38	+14 3.9	1.086	2.001	14.4	18.0
2 21	11 35.78	-5 48.1	1.200	2.132	11.9	20.3	2 21	11 34.88	+15 24.7	1.043	2.000	9.8	17.7
3 2	11 27.20	-5 22.3	1.166	2.138	7.0	20.0	3 2	11 26.84	+16 44.2	1.022	2.001	6.3	17.5
3 12	11 17.50	-4 37.7	1.156	2.144	3.9	19.8	3 12	11 17.65	+17 49.3	1.025	2.002	7.3	17.6
3 22	11 8.14	-3 41.8	1.171	2.150	6.8	20.0	3 22	11 8.92	+18 29.7	1.052	2.005	11.5	17.8
4 1	11 0.47	-2 44.2	1.211	2.157	11.5	20.3	4 1	11 2.14	+18 40.3	1.099	2.008	16.1	18.1
4 11	10 55.49	-1 53.8	1.273	2.164	15.9	20.6	4 11	10 58.31	+18 21.4	1.165	2.012	20.1	18.4
<b>430605</b>	2002 TF <sub>367</sub>		3 9.5	130°78'	2°4/6.6	17	<b>207360</b>	2005 JD <sub>138</sub>		3 9.5	115°86'	3°8/4.8	17
2 1	11 41.91	+8 45.5	2.332	3.139	12.0	21.5	2 1	11 41.73	+13 9.5	2.322	3.138	11.7	20.5
2 11	11 38.08	+9 43.7	2.254	3.145	9.1	21.4	2 11	11 37.98	+14 20.1	2.249	3.145	8.9	20.4
2 21	11 32.46	+10 49.9	2.201	3.151	5.9	21.2	2 21	11 32.41	+15 35.7	2.202	3.151	6.0	20.2
3 2	11 25.55	+11 58.6	2.175	3.157	3.0	21.0	3 2	11 25.54	+16 50.0	2.182	3.156	3.9	20.1
3 12	11 18.07	+13 3.5	2.180	3.163	3.2	21.0	3 12	11 18.10	+17 56.1	2.192	3.162	4.6	20.1
3 22	11 10.80	+13 59.0	2.213	3.168	6.2	21.2	3 22	11 10.88	+18 48.6	2.230	3.168	7.2	20.3
4 1	11 4.50	+14 40.8	2.274	3.173	9.3	21.4	4 1	11 4.65	+19 23.9	2.295	3.173	10.1	20.5
4 11	10 59.75	+15 6.7	2.359	3.178	12.1	21.6	4 11	11 0.00	+19 40.8	2.382	3.179	12.7	20.6
<b>8927</b>	Ryojiro		3 9.5	263°18'	1°7/8.0	18 R	<b>350395</b>	2012 VR <sub>18</sub>		3 9.5	27°02'	2°9/12.9	17
2 1	11 46.40	+6 12.2	1.767	2.574	15.2	18.2	2 1	11 39.35	-7 45.9	2.216	2.970	14.2	20.9
2 11	11 42.40	+6 45.6	1.667	2.557	11.8	18.0	2 11	11 36.27	-7 30.4	2.126	2.973	11.6	20.7
2 21	11 35.83	+7 31.6	1.590	2.540	7.8	17.7	2 21	11 31.37	-6 56.2	2.057	2.977	8.4	20.5
3 2	11 27.21	+8 25.3	1.539	2.523	3.4	17.4	3 2	11 25.11	-6 4.9	2.014	2.980	5.1	20.3
3 12	11 17.48	+9 19.5	1.516	2.505	2.6	17.3	3 12	11 18.24	-5 0.5	1.998	2.984	2.9	20.2
3 22	11 7.79	+10 6.8	1.520	2.487	7.1	17.5	3 22	11 11.52	-3 48.6	2.012	2.988	4.6	20.3
4 1	10 59.33	+10 41.0	1.551	2.469	11.6	17.7	4 1	11 5.75	-2 35.8	2.053	2.993	7.8	20.5
4 11	10 53.03	+10 58.3	1.604	2.450	15.6	17.9	4 11	11 1.54	-1 28.4	2.120	2.997	11.0	20.7
<b>82030</b>	2000 SG <sub>93</sub>		3 9.5	217°93'	4°0/14.9	18	<b>496484</b>	2014 SD <sub>314</sub>		3 9.5	251°48'	0°3/9.8	17
2 1	11 39.85	-13 9.4	2.669	3.378	13.1	20.0	2 1	11 44.46	-0 39.7	1.830	2.617	15.6	22.7
2 11	11 36.41	-12 58.8	2.563	3.374	11.0	19.9	2 11	11 40.84	+0 0.8	1.724	2.600	12.3	22.4
2 21	11 31.35	-12 29.7	2.478	3.369	8.5	19.7	2 21	11 34.78	+1 1.0	1.639	2.582	8.4	22.1
3 2	11 25.09	-11 42.1	2.419	3.365	6.0	19.5	3 2	11 26.76	+2 17.3	1.581	2.563	3.8	21.8
3 12	11 18.23	-10 38.7	2.388	3.360	4.2	19.4	3 12	11 17.65	+3 43.1	1.551	2.544	1.1	21.5
3 22	11 11.45	-9 23.6	2.386	3.354	4.7	19.4	3 22	11 8.52	+5 9.9	1.549	2.524	6.0	21.8
4 1	11 5.44	-8 2.8	2.413	3.349	7.0	19.6	4 1	11 0.50	+6 29.1	1.575	2.504	10.7	22.1
4 11	10 07.78	-6 42.4	2.467	3.343	9.7	19.7	4 11	10 54.51	+7 33.6	1.624	2.483	14.8	22.3
<b>212513</b>	2006 RB <sub>31</sub>		3 9.5	169°12'	0°5/10.0	18	<b>489588</b>	2007 TD <sub>126</sub>		3 9.5	171°33'	0°2/9.7	17
2 1	11 44.18	+1 27.2	2.655	3.428	11.6	20.7	2 1	11 46.94	+0 43.5	2.062	2.841	14.3	23.0
2 11	11 39.61	+1 34.2	2.562	3.430	9.1	20.5	2 11	11 42.23	+1 14.4	1.974	2.846	11.2	22.8
2 21	11 33.38	+1 50.8	2.493	3.432	6.1	20.3	2 21	11 35.36	+1 59.9	1.908	2.849	7.5	22.6
3 2	11 25.94	+2 14.6	2.453	3.434	2.8	20.1	3 2	11 26.88	+2 56.1	1.870	2.852	3.3	22.4
3 12	11 17.95	+2 42.4	2.442	3.435	0.8	20.0	3 12	11 17.66	+3 57.4	1.861	2.854	1.0	22.2
3 22	11 10.12	+3 10.3	2.462	3.436	4.1	20.2	3 22	11 8.63	+4 57.5	1.882	2.855	5.3	22.5
4 1	11 3.12	+3 34.7	2.511	3.437	7.3	20.4	4 1	11 0.74	+5 50.2	1.931	2.856	9.3	22.7
4 11	10 57.53	+3 52.5	2.586	3.438	10.2	20.6	4 11	10 54.71	+6 31.0	2.005	2.856	12.7	22.9
<b>180592</b>	2004 FK <sub>49</sub>		3 9.5	292°25'	1°0/10.2	17	<b>289461</b>	2005 EZ <sub>63</sub>		3 9.5	298°38'	0°0/9.3	17
2 1	11 46.64	+1 8.6	1.693	2.487	16.3	20.4	2 1	11 43.05	+1 21.5	1.524	2.333	17.1	21.4
2 11	11 42.64	+1 1.2	1.596	2.476	12.9	20.1	2 11	11 40.19	+1 45.1	1.427	2.316	13.5	21.1
2 21	11 36.01	+1 7.8	1.521	2.464	8.9	19.9	2 21	11 34.58	+2 27.3	1.351	2.299	9.1	20.8
3 2	11 27.29	+1 26.3	1.471	2.452	4.2	19.6	3 2	11 26.74	+3 24.8	1.300	2.283	4.1	20.4
3 12	11 17.47	+1 52.2	1.448	2.441	1.3	19.3	3 12	11 17.68	+4 30.3	1.274	2.267	1.4	20.2
3 22	11 7.73	+2 20.0	1.453	2.429	6.0	19.6	3 22	11 8.64	+5 35.2	1.275	2.251	6.8	20.5
4 1	10 59.28	+2 43.8	1.483	2.418	10.7	19.8	4 1	11 0.95	+6 30.9	1.301	2.235	11.9	20.7
4 11	10 53.08	+2 58.5	1.537	2.407	14.9	20.1	4 11	10 55.63	+7 10.7	1.348	2.219	16.5	21.0
<b>96550</b>	1998 SH <sub>68</sub>		3 9.5	144°16'	5°3/15.6	17	<b>140947</b>	2001 VM <sub>95</sub>		3 9.5	30°51'	7°6/29.2	17
2 1	11 45.18	-14 41.9	2.547	3.239	14.0	20.4	2 1	11 42.68	+24 51.4	2.115	2.942	12.3	19.4
2 11	11 40.54	-15 9.4	2.454	3.248	11.9	20.2	2 11	11 39.03	+26 23.8	2.057	2.946	10.0	19.3
2 21	11 34.08	-15 18.8	2.381	3.256	9.5	20.1	2 21	11 33.25	+27 52.6	2.024	2.950	8.2	19.2
3 2	11 26.28	-15 9.4	2.333	3.264	7.1	19.9	3 2	11 25.95	+29 8.8	2.017	2.954	7.6	19.1
3 12	11 17.84	-14 42.2	2.313	3.272	5.5	19.8	3 12	11 17.99	+30 4.9	2.037	2.958	8.7	19.2
3 22	11 9.54	-14 0.5	2.322	3.279	5.8	19.9	3 22	11 10.35	+30 36.3	2.083	2.963	10.8	19.3
4 1	11 2.16	-13 9.2	2.359	3.286	7.7	20.0	4 1	11 3.91	+30 41.5	2.151	2.967	13.1	19.5
4 11	10 56.31	-12 14.1	2.422	3.292	10.1	20.2	4 11	10 59.33	+30 22.4	2.239	2.972	15.2	19.7
<b>368714</b>	2005 TO <sub>106</sub>		3 9.5	179°90'	1°6/11.1	18	<b>323744</b>	2005 MQ <sub>48</sub>		3 9.5	210°80'	1°8/11.3	17
2 1	11 49.47	-1 49.8	2.606	3.355	12.4	21.4	2 1	11 43.70	-3 56.6	2.014	2.783	14.9	21.8

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>207617</b>	2006 <i>RJ</i> <sub>43</sub>		3 9.5 190°04	1.1°/ 8.1 18			<b>170217</b>	2003 <i>QK</i> <sub>7</sub>		3 9.5 167°25	0°0/ 9.6 18		
2 1	11 43.06	+ 6 26.0	2.768	3.557	10.8	21.2	2 1	11 47.40	+ 1 19.2	2.038	2.819	14.4	21.7
2 11	11 38.71	+ 6 54.4	2.675	3.556	8.3	21.1	2 11	11 42.61	+ 1 46.8	1.951	2.825	11.2	21.5
2 21	11 32.78	+ 7 30.0	2.608	3.555	5.4	20.9	2 21	11 35.63	+ 2 28.2	1.888	2.829	7.5	21.3
3 2	11 25.69	+ 8 9.4	2.570	3.553	2.3	20.7	3 2	11 27.03	+ 3 19.7	1.851	2.833	3.3	21.0
3 12	11 18.08	+ 8 48.4	2.562	3.551	1.7	20.6	3 12	11 17.68	+ 4 15.8	1.843	2.836	1.1	20.9
3 22	11 10.60	+ 9 22.9	2.584	3.549	4.7	20.8	3 22	11 8.54	+ 5 10.3	1.865	2.838	5.3	21.2
4 1	11 3.92	+ 9 49.6	2.635	3.546	7.7	21.0	4 1	11 0.57	+ 5 57.3	1.915	2.840	9.3	21.4
4 11	10 58.58	+ 10 6.1	2.711	3.543	10.4	21.2	4 11	10 54.49	+ 6 32.5	1.990	2.841	12.8	21.6
<b>293707</b>	Govoradloanatoly		3 9.5 241°54	2°6/11.8 17			<b>34701</b>	2001 <i>OZ</i> <sub>57</sub>		3 9.5 97°43	1°8/ 7.8 18		
2 1	11 44.72	- 5 30.7	1.728	2.499	17.0	21.3	2 1	11 45.24	+ 6 6.5	1.842	2.649	14.7	18.7
2 11	11 41.15	- 5 16.5	1.628	2.488	13.8	21.0	2 11	11 41.06	+ 6 52.2	1.772	2.662	11.3	18.5
2 21	11 35.04	- 4 40.2	1.548	2.477	9.9	20.8	2 21	11 34.62	+ 7 49.2	1.725	2.675	7.3	18.3
3 2	11 26.89	- 3 43.0	1.492	2.465	5.6	20.5	3 2	11 26.57	+ 8 51.7	1.704	2.688	3.2	18.0
3 12	11 17.65	- 2 29.8	1.463	2.453	2.6	20.3	3 12	11 17.85	+ 9 52.4	1.711	2.700	2.6	18.0
3 22	11 8.45	- 1 8.2	1.463	2.441	5.8	20.4	3 22	11 9.47	+ 10 44.4	1.747	2.712	6.5	18.3
4 1	11 0.46	+ 0 12.7	1.489	2.428	10.3	20.7	4 1	11 2.39	+ 11 22.7	1.810	2.724	10.4	18.5
4 11	10 54.64	+ 1 24.4	1.539	2.414	14.5	20.9	4 11	10 57.31	+ 11 44.4	1.895	2.736	13.7	18.8
<b>399545</b>	2003 <i>QA</i> <sub>14</sub>		3 9.5 138°85	4°9/13.9 18			<b>52718</b>	1998 <i>FL</i> <sub>126</sub>		3 9.5 288°21	2°6/12.8 17		
2 1	11 49.33	- 10 42.0	2.028	2.753	16.2	21.9	2 1	11 38.57	- 8 35.7	2.349	3.095	13.7	19.3
2 11	11 44.13	- 11 7.5	1.942	2.765	13.5	21.7	2 11	11 35.72	- 7 59.5	2.236	3.079	11.2	19.1
2 21	11 36.65	- 11 13.4	1.878	2.777	10.3	21.5	2 21	11 31.09	- 7 2.8	2.144	3.063	8.2	18.9
3 2	11 27.47	- 10 59.0	1.837	2.789	7.1	21.4	3 2	11 25.07	- 5 46.9	2.079	3.046	5.0	18.6
3 12	11 17.50	- 10 26.3	1.825	2.799	5.0	21.3	3 12	11 18.32	- 4 16.1	2.043	3.030	2.6	18.4
3 22	11 7.77	- 9 39.9	1.841	2.809	6.0	21.3	3 22	11 11.61	- 2 36.6	2.036	3.013	4.5	18.5
4 1	10 59.27	- 8 46.1	1.886	2.819	8.9	21.5	4 1	11 5.71	- 0 56.2	2.058	2.997	7.9	18.7
4 11	10 52.75	- 7 52.1	1.955	2.827	12.1	21.7	4 11	11 1.28	+ 0 37.9	2.106	2.980	11.2	18.9
<b>350923</b>	2002 <i>TS</i> <sub>28</sub>		3 9.5 147°62	4°8/ 3.7 18			<b>316848</b>	2000 <i>GW</i> <sub>19</sub>		3 9.5 7°05	2°2/11.4 17		
2 1	11 48.01	+ 20 46.3	2.772	3.575	10.4	21.0	2 1	11 38.77	- 4 3.0	1.314	2.123	19.4	20.4
2 11	11 42.44	+ 21 32.1	2.703	3.585	8.2	20.9	2 11	11 37.02	- 3 45.7	1.239	2.123	15.5	20.2
2 21	11 35.16	+ 22 16.0	2.660	3.594	6.0	20.8	2 21	11 32.49	- 3 2.6	1.183	2.124	10.9	19.9
3 2	11 26.70	+ 22 52.9	2.647	3.603	4.8	20.7	3 2	11 25.80	- 1 56.5	1.148	2.127	5.8	19.6
3 12	11 17.78	+ 23 17.8	2.662	3.611	5.4	20.8	3 12	11 18.09	- 0 34.9	1.139	2.131	2.2	19.4
3 22	11 9.15	+ 23 27.7	2.707	3.619	7.4	20.9	3 22	11 10.67	+ 0 51.9	1.154	2.135	6.4	19.6
4 1	11 1.52	+ 23 21.4	2.780	3.627	9.6	21.0	4 1	11 4.80	+ 2 12.7	1.194	2.141	11.5	19.9
4 11	10 55.43	+ 22 59.4	2.875	3.633	11.6	21.2	4 11	11 1.40	+ 3 18.6	1.255	2.147	16.0	20.2
<b>216002</b>	2005 <i>TL</i> <sub>7</sub>		3 9.5 306°09	9°4/22.1 18			<b>406429</b>	2007 <i>TL</i> <sub>218</sub>		3 9.5 176°14	0°0/ 9.3 17		
2 1	11 38.70	- 28 48.7	2.368	2.976	16.8	19.5	2 1	11 47.32	+ 1 34.5	2.065	2.846	14.2	22.8
2 11	11 36.08	- 29 11.3	2.251	2.958	15.3	19.4	2 11	11 42.55	+ 2 3.6	1.976	2.849	11.1	22.5
2 21	11 31.46	- 29 6.8	2.150	2.941	13.5	19.2	2 21	11 35.60	+ 2 46.3	1.909	2.851	7.4	22.3
3 2	11 25.26	- 28 31.2	2.068	2.924	11.7	19.0	3 2	11 27.03	+ 3 39.0	1.871	2.853	3.3	22.1
3 12	11 18.21	- 27 23.2	2.008	2.907	10.1	18.9	3 12	11 17.69	+ 4 36.0	1.861	2.854	1.1	21.9
3 22	11 11.17	- 25 45.2	1.974	2.890	9.4	18.8	3 22	11 8.55	+ 5 31.1	1.881	2.854	5.4	22.2
4 1	11 5.05	- 23 43.2	1.966	2.873	10.1	18.8	4 1	11 0.54	+ 6 18.6	1.929	2.853	9.3	22.4
4 11	11 0.61	- 21 26.8	1.983	2.857	11.8	18.9	4 11	10 54.41	+ 6 54.2	2.002	2.851	12.8	22.6
<b>155771</b>	2000 <i>SK</i> <sub>238</sub>		3 9.5 199°21	0°4/ 9.2 17			<b>263897</b>	2009 <i>FO</i> <sub>19</sub>		3 9.5 342°09	0°6/ 9.9 18		
2 1	11 45.69	+ 3 26.6	2.121	2.911	13.6	21.1	2 1	11 46.07	+ 1 27.6	1.458	2.265	17.9	21.0
2 11	11 41.26	+ 3 46.4	2.030	2.909	10.6	20.9	2 11	11 42.50	+ 1 28.7	1.376	2.263	14.1	20.8
2 21	11 34.73	+ 4 17.5	1.962	2.906	7.0	20.7	2 21	11 36.05	+ 1 46.4	1.314	2.260	9.5	20.5
3 2	11 26.63	+ 4 56.4	1.921	2.904	3.0	20.4	3 2	11 27.38	+ 2 17.5	1.275	2.258	4.4	20.2
3 12	11 17.78	+ 5 38.0	1.909	2.901	1.2	20.3	3 12	11 17.60	+ 2 56.0	1.263	2.256	1.3	20.0
3 22	11 9.10	+ 6 17.0	1.926	2.898	5.3	20.6	3 22	11 8.05	+ 3 34.7	1.277	2.254	6.6	20.3
4 1	11 1.49	+ 6 48.5	1.971	2.894	9.2	20.8	4 1	11 0.06	+ 4 6.5	1.316	2.253	11.6	20.6
4 11	10 55.66	+ 7 9.0	2.041	2.890	12.6	21.0	4 11	10 54.59	+ 4 26.1	1.377	2.252	15.9	20.8
<b>38930</b>	2000 <i>SW</i> <sub>230</sub>		3 9.5 71°75	0°6/10.1 18			<b>244265</b>	2002 <i>CV</i> <sub>303</sub>		3 9.5 254°39	1°1/ 8.5 17		
2 1	11 43.21	- 0 3.7	1.852	2.643	15.3	19.5	2 1	11 43.88	+ 2 46.9	1.698	2.503	15.8	21.0
2 11	11 39.56	+ 0 20.9	1.772	2.649	11.9	19.3	2 11	11 40.53	+ 3 39.6	1.602	2.491	12.4	20.7
2 21	11 33.69	+ 1 1.4	1.713	2.656	8.0	19.1	2 21	11 34.65	+ 4 50.6	1.528	2.477	8.2	20.5
3 2	11 26.18	+ 1 54.3	1.681	2.662	3.7	18.8	3 2	11 26.76	+ 6 14.5	1.480	2.464	3.5	20.1
3 12	11 17.94	+ 2 53.6	1.676	2.669	1.1	18.6	3 12	11 17.79	+ 7 43.1	1.459	2.450	2.1	20.0
3 22	11 9.96	+ 3 52.5	1.700	2.676	5.4	18.9	3 22	11 8.89	+ 9 6.8	1.466	2.436	6.9	20.3
4 1	11 3.18	+ 4 44.5	1.750	2.682	9.5	19.2	4 1	11 1.22	+ 10 17.1	1.500	2.422	11.6	20.5
4 11	10 58.34	+ 5 24.6	1.824	2.689	13.1	19.4	4 11	10 55.71	+ 11 8.3	1.556	2.407	15.7	20.7
<b>468167</b>	2014 <i>WF</i> <sub>426</sub>		3 9.5 68°09	5°4/ 5.2 18			<b>226644</b>	2004 <i>FO</i> <sub>69</sub>		3 9.5 249°86	1°5/11.2 17		
2 1	11 49.86	+ 17 34.5	1.799	2.618	14.5	21.2	2 1	11 43.45	- 4 24.1	2.294	3.053	13.6	21.6
2 11	11 44.65	+ 18 15.1	1.737	2.631	11.2	21.0	2 11	11 39.59	- 3 49.4	2.176	3.032	11.0	21.4
2 21	11 36.97	+ 18 56.0	1.700	2.644	7.9	20.8	2 21	11 33.73	- 2 56.3	2.081	3.010	7.7	21.1
3 2	11 27.56	+ 19 29.8	1.688	2.658	5.5	20.7	3 2	11 26.29	- 1 47.0	2.012	2.988	4.1	20.9
3 12	11 17.52	+ 19 49.5	1.704	2.671	6.1	20.8	3 12	11 17.96	- 0 25.9	1.973	2.965	1.6	20.6
3 22	11 7.99	+ 19 50.8	1.747	2.684	9.0	21.0	3 22	11 9.59	+ 1 0.5	1.964	2.941	4.7	20.8
4 1	11 0.00	+ 19 32.3	1.816	2.698	12.2	21.2	4 1	11 2.06	+ 2 25.1	1.985	2.916	8.6	21.0
4 11	10 54.26	+ 18 55.5	1.906	2.711	15.1	21.4	4 11	10 56.12	+ 3 41.0	2.031	2.891	12.2	21.2
<b>386538</b>	2009 <i>CW</i> <sub>56</sub>		3 9.5 25°67	3°9/ 7.4 18			<b>315379</b>	2007 <i>VU</i> <sub>54</sub>		3 9.5 13			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>269474</b>	2009 <i>TG</i> <sub>27</sub>		3 9.5 156°89	5°9/ 3.0 18			<b>466873</b>	2015 <i>CN</i> <sub>29</sub>		3 9.5 231°61	3°3/ 5.6 17		
2 1	11 45.27	+18 34.8	2.054	2.876	12.8	20.6	2 1	11 42.65	+11 9.7	2.284	3.096	12.1	21.4
2 11	11 41.04	+19 55.8	1.986	2.880	10.0	20.4	2 11	11 38.86	+12 17.4	2.194	3.088	9.2	21.2
2 21	11 34.62	+21 18.5	1.942	2.883	7.3	20.3	2 21	11 33.15	+13 32.7	2.129	3.079	6.1	21.0
3 2	11 26.61	+22 34.4	1.925	2.886	5.9	20.2	3 2	11 25.99	+14 49.7	2.092	3.070	3.6	20.8
3 12	11 17.90	+23 35.4	1.937	2.889	6.9	20.3	3 12	11 18.11	+16 1.1	2.084	3.061	4.2	20.8
3 22	11 9.47	+24 16.0	1.976	2.891	9.4	20.4	3 22	11 10.35	+17 0.6	2.106	3.051	7.1	21.0
4 1	11 2.26	+24 33.4	2.039	2.894	12.2	20.6	4 1	11 3.54	+17 43.8	2.154	3.041	10.3	21.1
4 11	10 56.97	+24 28.1	2.124	2.895	14.8	20.8	4 11	10 58.34	+18 8.5	2.226	3.031	13.2	21.3
<b>221178</b>	2005 <i>UE</i> <sub>18</sub>		3 9.5 117°29	0°6/10.1 18			<b>377782</b>	2005 <i>YD</i> <sub>228</sub>		3 9.5 340°91	1°8/10.9 17		
2 1	11 44.80	+ 0 5.6	1.950	2.735	14.8	21.2	2 1	11 45.09	- 1 1.5	1.759	2.546	16.1	20.8
2 11	11 40.67	+ 0 27.3	1.869	2.743	11.6	21.0	2 11	11 41.28	- 1 13.2	1.670	2.543	12.8	20.6
2 21	11 34.39	+ 1 3.8	1.810	2.751	7.8	20.7	2 21	11 35.02	- 1 9.8	1.601	2.539	8.9	20.3
3 2	11 26.51	+ 1 51.8	1.777	2.759	3.6	20.5	3 2	11 26.89	- 0 52.9	1.558	2.536	4.6	20.1
3 12	11 17.93	+ 2 45.9	1.773	2.766	1.0	20.3	3 12	11 17.82	- 0 26.5	1.542	2.533	1.8	19.9
3 22	11 9.61	+ 3 39.6	1.798	2.774	5.2	20.6	3 22	11 8.92	+ 0 4.1	1.553	2.531	5.5	20.1
4 1	11 2.46	+ 4 27.1	1.850	2.781	9.2	20.9	4 1	11 1.28	+ 0 33.1	1.591	2.529	9.9	20.4
4 11	10 57.20	+ 5 3.7	1.927	2.788	12.7	21.1	4 11	10 55.74	+ 0 55.2	1.652	2.527	13.7	20.6
<b>232312</b>	2002 <i>TS</i> <sub>73</sub>		3 9.5 105°69	0°9/10.2 18			<b>146244</b>	2000 <i>XO</i> <sub>3</sub>		3 9.5 158°21	7°3/20.9 18		
2 1	11 52.55	+ 0 34.5	1.544	2.332	17.9	21.0	2 1	11 42.77	-27 3.3	3.221	3.808	13.0	20.8
2 11	11 47.05	+ 0 38.8	1.478	2.353	14.0	20.8	2 11	11 38.51	-27 38.1	3.121	3.814	11.7	20.7
2 21	11 38.75	+ 0 59.5	1.432	2.373	9.5	20.6	2 21	11 32.69	-27 54.1	3.039	3.820	10.2	20.6
3 2	11 28.44	+ 1 33.1	1.411	2.392	4.4	20.3	3 2	11 25.73	-27 49.0	2.978	3.825	8.8	20.5
3 12	11 17.32	+ 2 13.3	1.418	2.411	1.3	20.2	3 12	11 18.21	-27 22.7	2.943	3.830	7.6	20.4
3 22	11 6.73	+ 2 53.4	1.454	2.429	6.2	20.5	3 22	11 10.77	-26 37.0	2.933	3.834	7.3	20.4
4 1	10 57.88	+ 3 27.0	1.515	2.447	10.8	20.8	4 1	11 4.07	-25 35.5	2.951	3.839	7.8	20.4
4 11	10 51.57	+ 3 49.3	1.600	2.464	14.7	21.1	4 11	10 58.64	-24 23.8	2.995	3.842	9.0	20.5
<b>93193</b>	2000 <i>SC</i> <sub>112</sub>		3 9.5 234°78	2°1/ 7.6 17			<b>353845</b>	2012 <i>VU</i> <sub>37</sub>		3 9.5 173°56	4°7/15.7 18		
2 1	11 47.12	+ 8 46.8	2.036	2.840	13.6	19.8	2 1	11 41.31	-14 53.4	2.805	3.497	12.9	21.1
2 11	11 42.51	+ 9 12.3	1.945	2.834	10.5	19.6	2 11	11 37.47	-15 0.7	2.703	3.498	10.9	21.0
2 21	11 35.65	+ 9 45.5	1.878	2.827	6.9	19.3	2 21	11 32.05	-14 50.5	2.623	3.500	8.7	20.8
3 2	11 27.10	+10 21.7	1.837	2.820	3.2	19.1	3 2	11 25.46	-14 22.5	2.568	3.501	6.4	20.7
3 12	11 17.73	+10 55.1	1.825	2.813	2.9	19.0	3 12	11 18.31	-13 38.3	2.540	3.502	4.8	20.6
3 22	11 8.53	+11 20.4	1.843	2.805	6.5	19.3	3 22	11 11.25	-12 41.4	2.542	3.502	5.1	20.6
4 1	11 0.48	+11 33.6	1.887	2.798	10.3	19.5	4 1	11 4.96	-11 36.6	2.572	3.503	6.9	20.7
4 11	10 54.34	+11 32.5	1.955	2.790	13.6	19.7	4 11	10 59.98	-10 29.7	2.629	3.503	9.3	20.8
<b>305446</b>	2008 <i>CP</i> <sub>195</sub>		3 9.5 294°26	0°3/ 9.2 17			<b>18165</b>	2000 <i>PN</i> <sub>20</sub>		3 9.5 106°24	1°9/ 7.8 18		
2 1	11 41.38	+ 3 13.3	2.397	3.187	12.2	21.0	2 1	11 48.59	+ 5 57.9	1.700	2.505	15.8	19.8
2 11	11 37.75	+ 3 35.9	2.300	3.180	9.5	20.8	2 11	11 43.76	+ 6 47.8	1.636	2.525	12.1	19.6
2 21	11 32.34	+ 4 9.0	2.227	3.172	6.3	20.6	2 21	11 36.47	+ 7 49.9	1.595	2.544	7.8	19.4
3 2	11 25.61	+ 4 49.4	2.181	3.164	2.7	20.4	3 2	11 27.42	+ 8 57.6	1.580	2.563	3.4	19.2
3 12	11 18.22	+ 5 32.6	2.164	3.157	1.1	20.2	3 12	11 17.69	+10 2.6	1.593	2.582	2.8	19.2
3 22	11 10.95	+ 6 13.8	2.177	3.149	4.8	20.5	3 22	11 8.43	+10 57.5	1.635	2.600	6.9	19.5
4 1	11 4.54	+ 6 48.6	2.218	3.142	8.3	20.7	4 1	11 0.67	+11 37.0	1.703	2.617	11.0	19.7
4 11	10 59.61	+ 7 13.4	2.283	3.134	11.3	20.9	4 11	10 55.14	+11 58.6	1.795	2.634	14.5	20.0
<b>203583</b>	2002 <i>CN</i> <sub>233</sub>		3 9.5 113°69	1°7/10.9 18			<b>94801</b>	2001 <i>XY</i> <sub>156</sub>		3 9.5 81°62	0°9/ 8.8 18		
2 1	11 47.44	- 2 49.9	1.687	2.466	17.0	20.8	2 1	11 49.55	+ 3 2.6	1.478	2.283	17.8	20.2
2 11	11 42.99	- 2 33.7	1.613	2.481	13.5	20.6	2 11	11 44.72	+ 3 42.3	1.423	2.310	13.7	20.0
2 21	11 36.05	- 1 58.3	1.559	2.495	9.3	20.4	2 21	11 37.17	+ 4 37.9	1.388	2.337	8.9	19.8
3 2	11 27.27	- 1 6.6	1.531	2.509	4.7	20.1	3 2	11 27.72	+ 5 42.9	1.379	2.363	3.8	19.5
3 12	11 17.69	- 0 4.8	1.530	2.522	1.8	20.0	3 12	11 17.61	+ 6 48.7	1.398	2.390	1.9	19.4
3 22	11 8.48	+ 0 59.6	1.557	2.535	5.6	20.2	3 22	11 8.12	+ 7 46.8	1.444	2.415	6.8	19.8
4 1	11 0.71	+ 1 59.2	1.612	2.547	10.0	20.5	4 1	11 0.38	+ 8 31.0	1.515	2.441	11.3	20.1
4 11	10 55.17	+ 2 47.6	1.690	2.559	13.8	20.8	4 11	10 55.13	+ 8 57.6	1.610	2.465	15.1	20.4
<b>16648</b>	1993 <i>SH</i> <sub>7</sub>		3 9.5 284°73	0°0/ 9.4 18			<b>457361</b>	2008 <i>SX</i> <sub>269</sub>		3 9.5 270°92	9°3/ 1.4 17		
2 1	11 43.02	+ 0 20.6	1.506	2.312	17.4	18.4	2 1	11 56.83	+31 11.6	2.029	2.827	13.8	21.0
2 11	11 40.18	+ 0 55.7	1.413	2.300	13.8	18.1	2 11	11 50.18	+32 2.5	1.956	2.819	11.7	20.8
2 21	11 34.59	+ 1 51.7	1.341	2.288	9.3	17.9	2 21	11 40.76	+32 43.4	1.906	2.810	10.0	20.7
3 2	11 26.79	+ 3 4.7	1.293	2.276	4.2	17.5	3 2	11 29.33	+33 5.0	1.882	2.800	9.3	20.6
3 12	11 17.81	+ 4 26.9	1.271	2.264	1.3	17.3	3 12	11 17.07	+33 0.1	1.885	2.791	10.2	20.7
3 22	11 8.91	+ 5 48.3	1.276	2.252	6.8	17.6	3 22	11 5.30	+32 25.7	1.914	2.782	12.2	20.8
4 1	11 1.39	+ 6 59.3	1.306	2.240	11.9	17.9	4 1	10 55.23	+31 23.1	1.966	2.773	14.5	20.9
4 11	10 56.25	+ 7 52.8	1.358	2.228	16.4	18.1	4 11	10 47.67	+29 56.8	2.039	2.764	16.8	21.0
<b>203796</b>	2002 <i>TY</i> <sub>94</sub>		3 9.5 237°75	0°4/10.0 17			<b>312201</b>	2007 <i>VU</i> <sub>208</sub>		3 9.5 129°44	0°9/ 8.6 18		
2 1	11 42.56	+ 0 32.9	2.282	3.064	13.0	20.8	2 1	11 48.08	+ 3 41.4	2.082	2.869	13.9	21.9
2 11	11 38.75	+ 0 54.5	2.186	3.058	10.2	20.6	2 11	11 42.96	+ 4 25.6	2.009	2.887	10.7	21.7
2 21	11 33.05	+ 1 29.0	2.112	3.053	6.9	20.4	2 21	11 35.76	+ 5 21.7	1.960	2.905	7.0	21.5
3 2	11 25.93	+ 2 13.5	2.066	3.047	3.2	20.1	3 2	11 27.08	+ 6 24.8	1.939	2.922	2.9	21.3
3 12	11 18.12	+ 3 3.5	2.048	3.041	0.9	19.9	3 12	11 17.81	+ 7 28.5	1.948	2.939	1.7	21.2
3 22	11 10.43	+ 3 53.7	2.060	3.035	4.7	20.2	3 22	11 8.87	+ 8 26.4	1.986	2.954	5.6	21.5
4 1	11 3.66	+ 4 38.8	2.100	3.029	8.4	20.4	4 1	11 1.14	+ 9 13.3	2.053	2.969	9.3	21.7
4 11	10 58.47	+ 5 14.6	2.166	3.023	11.6	20.6	4 11	10 55.28	+ 9 46.2	2.144	2.982	12.5	22.0
<b>302818</b>	2003 <i>BV</i> <sub>91</sub>		3 9.5 269°44	4°7/13.1 17			<b>413845</b>	2006 <i>SN</i> <sub>235</sub>		3 9.5 183°95	0°2/ 9.3		

EPHEMERIDES

3 9.5

3 9.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>325181</b>	2008 <i>FT</i> <sub>76</sub>		3 9.5 197°29	0°3/ 9.8 16			<b>303233</b>	2004 <i>PD</i> <sub>26</sub>		3 9.6 220°89	0°4/ 9.9 17		
2 1	11 45.06	+ 0 37.9	2.021	2.805	14.4	21.8	2 1	11 47.76	+ 0 12.7	1.950	2.730	15.0	23.4
2 11	11 40.92	+ 1 4.8	1.929	2.803	11.3	21.6	2 11	11 43.22	+ 0 39.5	1.848	2.719	11.9	23.1
2 21	11 34.61	+ 1 46.3	1.859	2.801	7.6	21.3	2 21	11 36.30	+ 1 22.4	1.768	2.708	8.0	22.9
3 2	11 26.67	+ 2 39.2	1.816	2.798	3.4	21.1	3 2	11 27.50	+ 2 18.3	1.714	2.696	3.7	22.6
3 12	11 17.93	+ 3 37.9	1.802	2.795	1.0	20.9	3 12	11 17.70	+ 3 21.5	1.690	2.683	1.1	22.3
3 22	11 9.34	+ 4 36.0	1.817	2.791	5.3	21.2	3 22	11 7.95	+ 4 25.0	1.695	2.669	5.6	22.6
4 1	11 1.84	+ 5 27.4	1.860	2.787	9.4	21.4	4 1	10 59.32	+ 5 22.0	1.728	2.654	10.0	22.9
4 11	10 56.20	+ 6 7.2	1.927	2.783	12.9	21.6	4 11	10 52.67	+ 6 6.9	1.785	2.639	13.9	23.1
<b>499497</b>	2010 <i>MA</i> <sub>94</sub>		3 9.5 291°45	8°6/14.8 17			<b>472982</b>	2015 <i>HP</i> <sub>11</sub>		3 9.6 335°13	6°5/ 3.3 17		
2 1	11 47.54	-13 47.3	1.629	2.360	19.4	20.9	2 1	11 44.03	+20 14.5	1.882	2.711	13.5	20.2
2 11	11 44.00	-15 1.5	1.513	2.332	16.9	20.6	2 11	11 40.41	+21 12.1	1.804	2.701	10.7	20.0
2 21	11 37.45	-15 55.8	1.415	2.303	13.8	20.4	2 21	11 34.41	+22 9.7	1.749	2.690	8.0	19.8
3 2	11 28.25	-16 24.9	1.339	2.275	10.7	20.1	3 2	11 26.62	+22 59.1	1.720	2.680	6.5	19.7
3 12	11 17.32	-16 25.9	1.286	2.246	8.7	19.9	3 12	11 18.01	+23 32.5	1.717	2.671	7.4	19.7
3 22	11 5.97	-15 59.5	1.259	2.217	9.4	19.9	3 22	11 9.64	+23 44.5	1.741	2.662	10.1	19.9
4 1	10 55.73	-15 11.3	1.256	2.188	12.5	19.9	4 1	11 2.55	+23 33.0	1.788	2.654	13.1	20.0
4 11	10 47.93	-14 11.1	1.275	2.159	16.4	20.1	4 11	10 57.53	+22 58.8	1.856	2.647	16.0	20.2
<b>500490</b>	2012 <i>TS</i> <sub>261</sub>		3 9.6 3°79	3°7/ 6.2 17			<b>241708</b>	2000 <i>SD</i> <sub>352</sub>		3 9.6 147°79	5°8/ 1.1 18		
2 1	11 45.34	+13 29.4	1.967	2.785	13.5	21.1	2 1	11 46.48	+26 45.4	3.073	3.875	9.5	21.0
2 11	11 41.14	+14 1.4	1.890	2.785	10.4	20.9	2 11	11 41.22	+27 44.0	3.014	3.885	7.8	20.9
2 21	11 34.73	+14 37.5	1.836	2.785	7.0	20.7	2 21	11 34.38	+28 37.8	2.980	3.894	6.3	20.8
3 2	11 26.70	+15 11.7	1.808	2.786	4.1	20.5	3 2	11 26.45	+29 21.4	2.974	3.903	5.8	20.8
3 12	11 17.95	+15 37.8	1.809	2.787	4.5	20.5	3 12	11 18.10	+29 50.2	2.998	3.911	6.5	20.8
3 22	11 9.50	+15 50.9	1.837	2.788	7.5	20.7	3 22	11 10.01	+30 1.7	3.049	3.919	8.0	21.0
4 1	11 2.26	+15 48.2	1.891	2.790	10.9	20.9	4 1	11 2.84	+29 55.2	3.125	3.927	9.8	21.1
4 11	10 56.97	+15 29.1	1.968	2.791	14.0	21.1	4 11	10 57.09	+29 31.7	3.224	3.934	11.4	21.2
<b>361134</b>	2006 <i>GX</i> <sub>44</sub>		3 9.6 251°77	1°1/10.5 17			<b>278223</b>	2007 <i>EJ</i> <sub>81</sub>		3 9.6 32°63	2°8/ 7.6 18		
2 1	11 44.12	- 2 19.4	1.731	2.517	16.4	21.6	2 1	11 50.73	+11 12.4	1.699	2.512	15.5	20.3
2 11	11 40.72	- 1 47.7	1.630	2.503	13.1	21.3	2 11	11 45.60	+11 19.3	1.623	2.515	12.0	20.1
2 21	11 34.80	- 0 55.0	1.550	2.489	9.0	21.0	2 21	11 37.83	+11 31.5	1.569	2.519	7.9	19.8
3 2	11 26.88	+ 0 15.9	1.495	2.475	4.4	20.7	3 2	11 28.11	+11 43.4	1.542	2.524	3.9	19.6
3 12	11 17.85	+ 1 38.7	1.468	2.460	1.3	20.5	3 12	11 17.55	+11 49.4	1.542	2.528	3.5	19.6
3 22	11 8.86	+ 3 4.7	1.468	2.445	5.9	20.7	3 22	11 7.38	+11 44.9	1.570	2.533	7.4	19.8
4 1	11 1.05	+ 4 25.0	1.495	2.430	10.7	21.0	4 1	10 58.75	+11 27.2	1.624	2.537	11.5	20.1
4 11	10 55.37	+ 5 31.9	1.546	2.414	14.9	21.2	4 11	10 52.47	+10 55.8	1.701	2.543	15.0	20.3
<b>276768</b>	2004 <i>GR</i> <sub>71</sub>		3 9.6 300°56	2°5/ 6.9 17			<b>244306</b>	2002 <i>GM</i> <sub>88</sub>		3 9.6 287°53	5°8/ 3.6 17		
2 1	11 41.75	+ 8 40.9	2.124	2.936	12.8	20.8	2 1	11 44.88	+17 31.7	1.961	2.785	13.3	20.3
2 11	11 38.48	+ 9 28.1	2.015	2.909	9.9	20.6	2 11	11 41.12	+18 41.6	1.866	2.762	10.4	20.0
2 21	11 33.10	+10 25.5	1.930	2.881	6.5	20.3	2 21	11 34.97	+19 55.7	1.795	2.739	7.6	19.8
3 2	11 26.07	+11 27.8	1.872	2.854	3.3	20.1	3 2	11 26.94	+21 6.1	1.750	2.716	5.9	19.6
3 12	11 18.12	+12 28.5	1.842	2.827	3.3	20.0	3 12	11 17.90	+22 3.8	1.733	2.692	6.9	19.7
3 22	11 10.15	+13 20.8	1.840	2.799	6.9	20.2	3 22	11 8.90	+22 42.0	1.743	2.669	9.8	19.8
4 1	11 3.09	+13 59.5	1.866	2.772	10.6	20.3	4 1	11 1.05	+22 56.7	1.778	2.645	13.1	19.9
4 11	10 57.73	+14 21.0	1.914	2.745	14.0	20.5	4 11	10 55.19	+22 47.3	1.833	2.622	16.2	20.1
<b>182584</b>	2001 <i>TO</i> <sub>207</sub>		3 9.6 146°95	0°1/ 9.4 17			<b>473435</b>	2015 <i>WE</i> <sub>12</sub>		3 9.6 124°08	4°2/ 5.8 18		
2 1	11 42.87	+ 2 35.1	2.531	3.313	11.9	21.2	2 1	11 49.41	+11 8.5	1.654	2.471	15.7	21.9
2 11	11 38.72	+ 2 58.4	2.443	3.318	9.2	21.1	2 11	11 44.56	+12 22.2	1.591	2.487	12.0	21.7
2 21	11 32.89	+ 3 31.7	2.380	3.323	6.1	20.9	2 21	11 37.11	+13 44.5	1.551	2.502	7.9	21.5
3 2	11 25.84	+ 4 12.0	2.345	3.327	2.6	20.6	3 2	11 27.77	+15 6.4	1.538	2.517	4.6	21.3
3 12	11 18.24	+ 4 55.0	2.339	3.332	0.9	20.5	3 12	11 17.67	+16 18.3	1.553	2.530	5.2	21.4
3 22	11 10.82	+ 5 36.3	2.363	3.336	4.4	20.8	3 22	11 8.04	+17 12.4	1.596	2.544	8.7	21.6
4 1	11 4.27	+ 6 11.5	2.416	3.339	7.7	21.0	4 1	10 59.98	+17 44.3	1.664	2.556	12.5	21.9
4 11	10 59.16	+ 6 37.7	2.495	3.343	10.6	21.2	4 11	10 54.27	+17 53.4	1.753	2.568	15.8	22.1
<b>156469</b>	2002 <i>CV</i> <sub>33</sub>		3 9.6 340°04	2°4/ 7.9 18			<b>252548</b>	2001 <i>VC</i> <sub>72</sub>		3 9.6 113°12	2°3/ 6.9 18		
2 1	11 47.11	+ 9 36.1	1.577	2.398	16.1	19.2	2 1	11 47.23	+ 8 29.8	2.349	3.144	12.3	22.1
2 11	11 43.14	+ 9 44.1	1.493	2.390	12.5	18.9	2 11	11 42.03	+ 9 26.9	2.286	3.171	9.3	21.9
2 21	11 36.42	+ 9 59.7	1.431	2.383	8.2	18.6	2 21	11 35.01	+10 31.1	2.248	3.196	6.0	21.8
3 2	11 27.56	+10 17.7	1.393	2.377	3.9	18.4	3 2	11 26.74	+11 36.7	2.239	3.220	2.9	21.6
3 12	11 17.68	+10 31.6	1.382	2.371	3.2	18.3	3 12	11 18.02	+12 37.8	2.260	3.244	3.0	21.6
3 22	11 8.05	+10 35.9	1.398	2.366	7.6	18.5	3 22	11 9.64	+13 29.0	2.312	3.267	5.9	21.9
4 1	10 59.90	+10 26.7	1.440	2.361	12.0	18.8	4 1	11 2.37	+14 6.6	2.392	3.289	9.0	22.1
4 11	10 54.17	+10 2.5	1.503	2.357	16.0	19.0	4 11	10 56.75	+14 29.1	2.496	3.310	11.7	22.3
<b>403316</b>	2009 <i>CF</i> <sub>45</sub>		3 9.6 53°24	0°2/ 9.8 18			<b>249534</b>	2010 <i>GY</i> <sub>132</sub>		3 9.6 134°06	1°2/11.1 17		
2 1	11 45.03	+ 0 17.4	1.298	2.112	19.3	21.1	2 1	11 40.61	- 3 27.9	2.585	3.347	12.2	21.1
2 11	11 41.70	+ 0 47.6	1.239	2.130	15.0	20.8	2 11	11 36.97	- 2 53.6	2.496	3.354	9.7	20.9
2 21	11 35.45	+ 1 38.8	1.199	2.148	10.0	20.6	2 21	11 31.74	- 2 4.9	2.430	3.361	6.7	20.8
3 2	11 27.08	+ 2 45.3	1.183	2.166	4.5	20.3	3 2	11 25.36	- 1 4.6	2.392	3.368	3.4	20.6
3 12	11 17.87	+ 3 58.1	1.192	2.185	1.3	20.2	3 12	11 18.46	+ 0 3.0	2.383	3.375	1.2	20.4
3 22	11 9.21	+ 5 7.0	1.227	2.204	6.8	20.6	3 22	11 11.72	+ 1 12.6	2.405	3.382	4.0	20.6
4 1	11 2.33	+ 6 3.6	1.287	2.224	11.8	20.9	4 1	11 5.80	+ 2 18.9	2.456	3.388	7.2	20.8
4 11	10 58.06	+ 6 42.3	1.368	2.244	16.0	21.2	4 11	11 1.24	+ 3 17.2	2.533	3.394	10.0	21.0
<b>360733</b>	2004 <i>TM</i> <sub>302</sub>		3 9.6 72°79	3°6/ 6.8 18			<b>159003</b>	2004 <i>SM</i> <sub>50</sub>		3 9.6 135°01	0°4/10.		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>466329</b>	2013 <i>RB</i> <sub>18</sub>		3 9.6 178°30	1°5/11.4 16			<b>224308</b>	2005 <i>UE</i> <sub>12</sub>		3 9.6 178°83	1°6/ 7.9 18		
2 1	11 42.55	- 5 2.3	2.414	3.169	13.2	22.1	2 1	11 45.23	+ 6 17.6	2.210	3.006	12.9	21.5
2 11	11 38.63	- 4 19.4	2.318	3.171	10.5	21.9	2 11	11 40.84	+ 6 59.9	2.123	3.008	9.9	21.3
2 21	11 32.93	- 3 19.3	2.244	3.172	7.3	21.7	2 21	11 34.47	+ 7 52.0	2.061	3.009	6.5	21.1
3 2	11 25.92	- 2 4.4	2.198	3.173	3.9	21.5	3 2	11 26.63	+ 8 49.3	2.026	3.009	2.9	20.8
3 12	11 18.28	- 0 40.0	2.182	3.173	1.5	21.3	3 12	11 18.10	+ 9 45.6	2.020	3.009	2.3	20.8
3 22	11 10.77	+ 0 47.7	2.196	3.173	4.3	21.5	3 22	11 9.76	+10 35.3	2.045	3.009	5.8	21.0
4 1	11 4.15	+ 2 12.1	2.240	3.172	7.8	21.7	4 1	11 2.45	+11 13.7	2.097	3.008	9.4	21.2
4 11	10 59.03	+ 3 27.3	2.310	3.170	10.9	21.9	4 11	10 56.85	+11 37.7	2.173	3.006	12.5	21.4
<b>22910</b>	Ruiwang		3 9.6 200°50	0°5/ 9.9 18			<b>51220</b>	2000 <i>JG</i> <sub>23</sub>		3 9.6 70°62	7°7/17.1 18		
2 1	11 46.38	+ 0 15.4	1.979	2.760	14.7	20.0	2 1	11 44.26	-17 35.3	1.736	2.445	19.1	18.7
2 11	11 42.03	+ 0 39.5	1.885	2.757	11.6	19.8	2 11	11 40.73	-18 11.0	1.657	2.457	16.5	18.5
2 21	11 35.42	+ 1 18.9	1.813	2.754	7.8	19.5	2 21	11 34.71	-18 19.3	1.595	2.469	13.4	18.4
3 2	11 27.09	+ 2 10.3	1.768	2.749	3.6	19.3	3 2	11 26.81	-17 57.8	1.555	2.481	10.3	18.2
3 12	11 17.90	+ 3 8.1	1.752	2.745	1.0	19.1	3 12	11 18.04	-17 7.6	1.539	2.494	8.1	18.1
3 22	11 8.84	+ 4 6.1	1.765	2.739	5.4	19.4	3 22	11 9.52	-15 54.2	1.549	2.506	8.1	18.1
4 1	11 0.92	+ 4 57.7	1.805	2.733	9.6	19.6	4 1	11 2.36	-14 26.2	1.584	2.518	10.2	18.3
4 11	10 54.91	+ 5 37.9	1.870	2.727	13.2	19.8	4 11	10 57.39	-12 54.3	1.644	2.531	13.1	18.5
<b>456837</b>	2007 <i>TK</i> <sub>446</sub>		3 9.6 120°80	1°4/ 8.3 18			<b>523771</b>	2014 <i>XP</i> <sub>40</sub>		3 9.6 357°89	0°4/14.5 18		
2 1	11 47.37	+ 4 37.1	1.841	2.639	15.0	22.2	2 1	11 23.62	- 8 53.8	27.822	28.525	1.4	21.8
2 11	11 42.73	+ 5 25.0	1.770	2.655	11.6	22.0	2 11	11 22.84	- 8 51.7	27.709	28.519	1.1	21.8
2 21	11 35.78	+ 6 25.6	1.722	2.670	7.5	21.8	2 21	11 21.94	- 8 48.1	27.620	28.513	0.9	21.7
3 2	11 27.18	+ 7 33.3	1.701	2.685	3.2	21.5	3 2	11 20.96	- 8 43.2	27.560	28.507	0.6	21.7
3 12	11 17.90	+ 8 40.4	1.709	2.699	2.2	21.5	3 12	11 19.95	- 8 37.2	27.529	28.501	0.4	21.7
3 22	11 8.98	+ 9 39.9	1.746	2.713	6.3	21.8	3 22	11 18.95	- 8 30.5	27.527	28.495	0.5	21.7
4 1	11 1.40	+10 26.1	1.810	2.726	10.3	22.0	4 1	11 17.99	- 8 23.3	27.555	28.489	0.7	21.7
4 11	10 55.88	+10 55.8	1.897	2.739	13.7	22.3	4 11	11 17.14	- 8 15.9	27.611	28.483	1.0	21.7
<b>498259</b>	2007 <i>UG</i> <sub>117</sub>		3 9.6 188°08	3°4/13.6 17			<b>15230</b>	Alona		3 9.6 92°22	0°0/ 9.4 18		
2 1	11 41.47	- 9 28.9	2.492	3.224	13.4	22.1	2 1	11 46.42	+ 0 6.1	1.505	2.304	17.8	18.2
2 11	11 37.79	- 9 22.8	2.392	3.223	11.0	21.9	2 11	11 42.45	+ 0 54.6	1.440	2.323	13.8	18.0
2 21	11 32.39	- 8 59.5	2.315	3.223	8.2	21.7	2 21	11 35.82	+ 2 3.1	1.396	2.341	9.1	17.8
3 2	11 25.69	- 8 19.6	2.263	3.222	5.4	21.6	3 2	11 27.26	+ 3 25.5	1.376	2.359	4.0	17.5
3 12	11 18.37	- 7 26.0	2.240	3.221	3.4	21.4	3 12	11 17.92	+ 4 52.8	1.385	2.377	1.3	17.4
3 22	11 11.16	- 6 23.3	2.246	3.220	4.5	21.5	3 22	11 9.04	+ 6 15.2	1.420	2.395	6.5	17.8
4 1	11 4.80	- 5 17.1	2.281	3.218	7.3	21.7	4 1	11 1.76	+ 7 24.4	1.482	2.412	11.1	18.1
4 11	10 59.87	- 4 13.2	2.342	3.217	10.2	21.8	4 11	10 56.85	+ 8 15.0	1.566	2.428	15.1	18.3
<b>438800</b>	2008 <i>YN</i> <sub>38</sub>		3 9.6 179°13	14°3/18.8 18			<b>100826</b>	1998 <i>HH</i> <sub>2</sub>		3 9.6 51°53	0°4/ 9.9 18		
2 1	11 55.47	-24 24.5	1.465	2.128	23.8	21.1	2 1	11 44.93	+ 0 15.6	1.327	2.139	19.1	19.8
2 11	11 50.60	-26 30.8	1.380	2.130	21.5	20.9	2 11	11 41.64	+ 0 41.3	1.264	2.154	14.9	19.6
2 21	11 42.05	-28 9.2	1.310	2.132	19.0	20.7	2 21	11 35.45	+ 1 27.5	1.222	2.169	10.0	19.4
3 2	11 30.36	-29 9.7	1.259	2.132	16.4	20.5	3 2	11 27.14	+ 2 29.1	1.202	2.185	4.5	19.1
3 12	11 16.79	-29 25.3	1.228	2.132	14.7	20.4	3 12	11 17.96	+ 3 37.5	1.208	2.201	1.3	18.9
3 22	11 3.11	-28 55.3	1.220	2.131	14.3	20.4	3 22	11 9.28	+ 4 43.1	1.241	2.218	6.7	19.3
4 1	10 51.21	-27 46.7	1.233	2.129	15.7	20.5	4 1	11 2.33	+ 5 37.4	1.297	2.235	11.7	19.6
4 11	10 42.53	-26 13.5	1.267	2.127	18.1	20.6	4 11	10 57.96	+ 6 14.9	1.376	2.252	15.9	19.9
<b>422488</b>	2014 <i>SR</i> <sub>337</sub>		3 9.6 216°89	1°7/ 7.9 17			<b>502788</b>	2015 <i>DT</i> <sub>98</sub>		3 9.6 222°54	1°0/ 8.3 17		
2 1	11 47.03	+ 5 58.7	2.055	2.851	13.8	22.7	2 1	11 40.80	+ 3 49.7	2.514	3.305	11.7	21.4
2 11	11 42.51	+ 6 43.6	1.958	2.842	10.6	22.5	2 11	11 37.26	+ 4 42.4	2.418	3.300	9.0	21.2
2 21	11 35.74	+ 7 40.3	1.885	2.833	7.0	22.3	2 21	11 32.03	+ 5 46.6	2.347	3.294	5.9	21.0
3 2	11 27.24	+ 8 43.6	1.839	2.823	3.1	22.0	3 2	11 25.55	+ 6 57.9	2.303	3.287	2.5	20.8
3 12	11 17.86	+ 9 47.0	1.823	2.812	2.5	21.9	3 12	11 18.45	+ 8 10.8	2.290	3.281	1.7	20.7
3 22	11 8.58	+10 43.5	1.836	2.800	6.4	22.1	3 22	11 11.46	+ 9 19.5	2.307	3.274	5.0	20.9
4 1	11 0.39	+11 27.6	1.877	2.788	10.3	22.4	4 1	11 5.28	+10 18.8	2.353	3.267	8.3	21.1
4 11	10 54.07	+11 55.8	1.942	2.775	13.8	22.5	4 11	11 0.50	+11 5.1	2.423	3.260	11.3	21.3
<b>307390</b>	2002 <i>TT</i> <sub>21</sub>		3 9.6 88°79	4°4/ 6.2 18			<b>30054</b>	Pereira		3 9.6 287°95	1°4/10.5 18		
2 1	11 53.42	+14 52.7	1.752	2.564	15.1	21.2	2 1	11 45.46	- 0 41.8	1.439	2.241	18.3	18.9
2 11	11 47.37	+15 26.4	1.695	2.586	11.6	21.0	2 11	11 42.40	- 0 38.8	1.339	2.222	14.7	18.6
2 21	11 38.78	+16 2.4	1.661	2.607	7.9	20.8	2 21	11 36.32	- 0 15.9	1.259	2.202	10.2	18.3
3 2	11 28.45	+16 33.6	1.653	2.629	4.8	20.7	3 2	11 27.74	+ 0 24.9	1.202	2.183	5.1	17.9
3 12	11 17.54	+16 53.2	1.674	2.650	5.1	20.8	3 12	11 17.69	+ 1 18.2	1.170	2.163	1.6	17.6
3 22	11 7.24	+16 56.8	1.724	2.671	8.3	21.0	3 22	11 7.57	+ 2 15.9	1.165	2.143	6.8	17.9
4 1	10 58.61	+16 42.8	1.799	2.691	11.7	21.2	4 1	10 58.85	+ 3 8.9	1.184	2.124	12.3	18.1
4 11	10 52.34	+16 12.2	1.897	2.711	14.8	21.5	4 11	10 52.72	+ 3 49.6	1.224	2.104	17.2	18.4
<b>179484</b>	2002 <i>CZ</i> <sub>17</sub>		3 9.6 259°22	3°4/13.0 17			<b>56807</b>	2000 <i>PR</i> <sub>14</sub>		3 9.6 188°97	0°7/ 8.8 17		
2 1	11 44.69	- 7 9.4	2.496	3.234	13.2	20.1	2 1	11 44.25	+ 3 19.8	2.167	2.958	13.3	20.7
2 11	11 40.27	- 7 35.6	2.397	3.233	10.8	19.9	2 11	11 40.15	+ 4 0.2	2.077	2.957	10.3	20.5
2 21	11 34.03	- 7 48.1	2.321	3.231	8.1	19.7	2 21	11 34.06	+ 4 53.0	2.010	2.956	6.8	20.3
3 2	11 26.43	- 7 46.9	2.270	3.230	5.2	19.6	3 2	11 26.47	+ 5 54.1	1.971	2.955	2.9	20.0
3 12	11 18.16	- 7 33.7	2.248	3.228	3.4	19.4	3 12	11 18.16	+ 6 57.5	1.961	2.953	1.5	19.9
3 22	11 9.97	- 7 11.4	2.255	3.227	4.7	19.5	3 22	11 10.02	+ 7 56.8	1.981	2.951	5.4	20.2
4 1	11 2.65	- 6 44.3	2.291	3.225	7.5	19.7	4 1	11 2.89	+ 8 46.7	2.029	2.948	9.2	20.4
4 11	10 56.84	- 6 16.8	2.353	3.224	10.3	19.9	4 11	10 57.47	+ 9 23.3	2.101	2.945	12.5	20.6
<b>244693</b>	2003 <i>QS</i> <sub>3</sub>		3 9.6 162°16	0°8/10.6 17			<b>52066</b>	2002 <i>QF</i> <sub>27</sub>		3 9.6 300°44	2°2/ 7.8 17		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>127194</b>	2002 <i>GF</i> <sub>176</sub>		3 9.6 106°57	1°5/ 8.3 18			<b>204199</b>	2004 <i>BW</i> <sub>143</sub>		3 9.6 179°67	1°1/ 8.2 18		
2 1	11 49.48	+ 7 41.3	2.073	2.869	13.7	20.3	2 1	11 42.92	+ 5 35.1	2.732	3.520	10.9	21.6
2 11	11 44.09	+ 7 54.6	1.999	2.882	10.5	20.1	2 11	11 38.68	+ 6 13.5	2.641	3.521	8.4	21.4
2 21	11 36.56	+ 8 15.2	1.949	2.896	6.9	19.9	2 21	11 32.86	+ 7 0.1	2.576	3.522	5.5	21.2
3 2	11 27.51	+ 8 38.8	1.926	2.909	3.0	19.6	3 2	11 25.89	+ 7 51.4	2.539	3.522	2.4	21.0
3 12	11 17.86	+ 9 0.6	1.933	2.922	2.1	19.6	3 12	11 18.38	+ 8 42.6	2.532	3.522	1.7	21.0
3 22	11 8.55	+ 9 16.0	1.969	2.935	5.8	19.9	3 22	11 11.02	+ 9 29.3	2.556	3.522	4.7	21.2
4 1	11 0.50	+ 9 21.9	2.033	2.948	9.4	20.1	4 1	11 4.45	+10 7.6	2.609	3.520	7.8	21.4
4 11	10 54.37	+ 9 16.5	2.121	2.960	12.6	20.3	4 11	10 59.22	+10 34.8	2.688	3.519	10.4	21.5
<b>490483</b>	2009 <i>SH</i> <sub>353</sub>		3 9.6 70°38	1°8/11.3 18			<b>219845</b>	2002 <i>CZ</i> <sub>178</sub>		3 9.6 67°22	1°0/ 8.7 18		
2 1	11 43.15	- 3 39.0	1.823	2.602	15.9	21.7	2 1	11 45.96	+ 4 29.3	1.726	2.531	15.6	21.3
2 11	11 39.59	- 3 21.2	1.745	2.611	12.7	21.5	2 11	11 41.74	+ 5 0.1	1.662	2.550	12.0	21.1
2 21	11 33.80	- 2 44.6	1.687	2.621	8.8	21.3	2 21	11 35.17	+ 5 43.3	1.620	2.569	7.8	20.9
3 2	11 26.37	- 1 51.9	1.655	2.631	4.7	21.1	3 2	11 26.94	+ 6 33.7	1.604	2.588	3.3	20.6
3 12	11 18.21	- 0 48.7	1.650	2.641	1.9	20.9	3 12	11 18.07	+ 7 24.4	1.615	2.607	1.9	20.5
3 22	11 10.32	+ 0 18.2	1.673	2.651	5.2	21.2	3 22	11 9.62	+ 8 8.8	1.655	2.626	6.2	20.9
4 1	11 3.65	+ 1 21.3	1.724	2.661	9.2	21.4	4 1	11 2.58	+ 8 41.6	1.721	2.645	10.3	21.1
4 11	10 58.94	+ 2 14.5	1.798	2.672	12.9	21.7	4 11	10 57.65	+ 8 59.8	1.811	2.664	13.7	21.4
<b>82028</b>	2000 <i>SF</i> <sub>82</sub>		3 9.6 192°68	2°3/ 6.5 18			<b>192511</b>	1998 <i>QR</i> <sub>73</sub>		3 9.6 142°57	3°6/13.9 18		
2 1	11 42.07	+10 15.1	2.879	3.679	10.1	20.0	2 1	11 42.95	-10 29.9	2.465	3.189	13.7	20.4
2 11	11 37.97	+11 1.5	2.790	3.677	7.7	19.8	2 11	11 38.91	-10 24.9	2.373	3.197	11.3	20.2
2 21	11 32.36	+11 53.3	2.727	3.675	5.1	19.6	2 21	11 33.11	-10 2.0	2.303	3.205	8.5	20.0
3 2	11 25.66	+12 46.4	2.692	3.673	2.7	19.5	3 2	11 26.03	- 9 21.9	2.258	3.213	5.6	19.9
3 12	11 18.44	+13 35.9	2.689	3.670	2.9	19.5	3 12	11 18.36	- 8 27.5	2.242	3.220	3.7	19.7
3 22	11 11.35	+14 17.6	2.715	3.667	5.4	19.6	3 22	11 10.84	- 7 23.4	2.255	3.227	4.7	19.8
4 1	11 5.02	+14 48.4	2.769	3.663	8.0	19.8	4 1	11 4.23	- 6 15.4	2.297	3.234	7.3	20.0
4 11	10 59.95	+15 6.5	2.849	3.659	10.5	20.0	4 11	10 59.12	- 5 9.6	2.366	3.240	10.2	20.2
<b>353416</b>	2011 <i>QG</i> <sub>17</sub>		3 9.6 214°64	0°3/ 9.2 18			<b>334744</b>	2003 <i>QO</i> <sub>33</sub>		3 9.6 197°27	3°1/12.6 17		
2 1	11 40.81	+ 2 4.0	2.820	3.600	10.9	21.5	2 1	11 49.19	- 6 11.2	2.586	3.316	13.0	21.0
2 11	11 37.08	+ 2 46.2	2.720	3.593	8.4	21.3	2 11	11 43.70	- 6 38.9	2.481	3.314	10.6	20.8
2 21	11 31.82	+ 3 39.2	2.644	3.586	5.6	21.1	2 21	11 36.30	- 6 54.2	2.399	3.310	7.8	20.7
3 2	11 25.44	+ 4 39.6	2.596	3.579	2.4	20.9	3 2	11 27.46	- 6 56.8	2.345	3.306	4.9	20.5
3 12	11 18.51	+ 5 43.2	2.579	3.571	1.0	20.8	3 12	11 17.89	- 6 48.4	2.320	3.302	3.1	20.3
3 22	11 11.66	+ 6 44.8	2.593	3.563	4.2	21.0	3 22	11 8.38	- 6 31.7	2.326	3.297	4.6	20.4
4 1	11 5.53	+ 7 40.2	2.636	3.555	7.3	21.2	4 1	10 59.75	- 6 10.3	2.361	3.291	7.5	20.6
4 11	10 0.64	+ 8 25.6	2.704	3.546	10.1	21.4	4 11	10 52.66	- 5 48.8	2.424	3.285	10.4	20.8
<b>372402</b>	2009 <i>RZ</i> <sub>11</sub>		3 9.6 57°11	3°6/ 6.9 18			<b>456879</b>	2007 <i>VX</i> <sub>93</sub>		3 9.6 127°97	0°3/ 9.9 18		
2 1	11 51.11	+13 15.1	1.770	2.583	15.0	20.3	2 1	11 48.56	+ 0 53.5	1.936	2.717	15.0	22.5
2 11	11 45.81	+13 31.8	1.696	2.588	11.5	20.1	2 11	11 43.57	+ 1 16.6	1.860	2.732	11.7	22.3
2 21	11 37.93	+13 52.1	1.644	2.592	7.7	19.9	2 21	11 36.33	+ 1 54.0	1.807	2.747	7.8	22.1
3 2	11 28.19	+14 10.0	1.618	2.597	4.3	19.7	3 2	11 27.46	+ 2 41.8	1.780	2.761	3.5	21.9
3 12	11 17.64	+14 19.4	1.620	2.602	4.3	19.7	3 12	11 17.92	+ 3 34.3	1.782	2.775	1.0	21.7
3 22	11 7.50	+14 15.8	1.651	2.607	7.8	19.9	3 22	11 8.70	+ 4 25.2	1.814	2.788	5.3	22.1
4 1	10 58.87	+13 57.0	1.708	2.612	11.6	20.2	4 1	11 0.76	+ 5 9.0	1.873	2.800	9.4	22.3
4 11	10 52.53	+13 23.0	1.787	2.617	14.9	20.4	4 11	10 54.83	+ 5 41.2	1.957	2.812	12.8	22.6
<b>286027</b>	2001 <i>SG</i> <sub>163</sub>		3 9.6 196°67	1°8/ 8.0 18			<b>139423</b>	2001 <i>OQ</i> <sub>32</sub>		3 9.6 164°72	3°7/ 5.5 18		
2 1	11 50.97	+ 7 5.8	1.968	2.762	14.4	22.1	2 1	11 46.98	+12 58.0	2.232	3.039	12.4	20.1
2 11	11 45.60	+ 7 36.7	1.876	2.759	11.1	21.9	2 11	11 42.16	+13 58.0	2.155	3.045	9.5	19.9
2 21	11 37.81	+ 8 17.5	1.808	2.755	7.3	21.6	2 21	11 35.32	+15 3.1	2.103	3.050	6.4	19.7
3 2	11 28.17	+ 9 3.2	1.767	2.751	3.3	21.4	3 2	11 27.01	+16 7.0	2.079	3.054	4.0	19.6
3 12	11 17.63	+ 9 47.5	1.756	2.745	2.6	21.3	3 12	11 18.05	+17 2.8	2.084	3.058	4.5	19.6
3 22	11 7.26	+10 24.2	1.774	2.739	6.5	21.5	3 22	11 9.34	+17 45.2	2.119	3.061	7.3	19.8
4 1	10 58.14	+10 48.7	1.820	2.731	10.6	21.8	4 1	11 1.73	+18 10.5	2.181	3.063	10.4	20.0
4 11	10 51.09	+10 58.3	1.890	2.723	14.1	22.0	4 11	10 55.88	+18 17.9	2.266	3.065	13.2	20.2
<b>385888</b>	2006 <i>SV</i> <sub>181</sub>		3 9.6 265°18	5°8/ 3.3 17			<b>297421</b>	2000 <i>SP</i> <sub>51</sub>		3 9.6 199°75	2°0/12.3 17		
2 1	11 50.17	+22 46.9	2.505	3.310	11.3	20.8	2 1	11 40.37	- 6 26.3	2.871	3.613	11.6	21.8
2 11	11 44.63	+23 29.9	2.410	3.289	9.1	20.6	2 11	11 36.72	- 5 59.6	2.767	3.610	9.3	21.6
2 21	11 36.99	+24 10.7	2.339	3.269	7.0	20.4	2 21	11 31.58	- 5 18.3	2.687	3.606	6.7	21.4
3 2	11 27.77	+24 42.7	2.296	3.247	5.8	20.3	3 2	11 25.34	- 4 24.0	2.634	3.602	3.9	21.2
3 12	11 17.76	+25 0.1	2.282	3.226	6.6	20.3	3 12	11 18.58	- 3 20.2	2.610	3.598	2.0	21.1
3 22	11 7.89	+24 59.2	2.297	3.204	8.7	20.4	3 22	11 11.90	- 2 11.3	2.617	3.594	3.7	21.2
4 1	10 59.06	+24 38.2	2.338	3.182	11.3	20.6	4 1	11 5.93	- 1 2.5	2.654	3.589	6.6	21.4
4 11	10 51.99	+23 58.4	2.402	3.159	13.7	20.7	4 11	11 1.18	+ 0 1.5	2.718	3.584	9.3	21.6
<b>212693</b>	2007 <i>HD</i> <sub>18</sub>		3 9.6 259°96	3°1/ 6.6 18			<b>91639</b>	1999 <i>TE</i> <sub>85</sub>		3 9.6 288°43	1°3/10.6 18		
2 1	11 44.81	+10 21.2	1.979	2.793	13.6	20.4	2 1	11 47.69	+ 0 36.4	1.896	2.679	15.2	19.6
2 11	11 40.85	+11 6.4	1.892	2.786	10.4	20.2	2 11	11 43.39	+ 0 21.4	1.785	2.657	12.2	19.3
2 21	11 34.65	+11 59.6	1.828	2.778	6.9	19.9	2 21	11 36.59	+ 0 18.7	1.696	2.635	8.5	19.0
3 2	11 26.78	+12 54.9	1.790	2.771	3.7	19.7	3 2	11 27.76	+ 0 26.9	1.633	2.613	4.2	18.7
3 12	11 18.08	+13 45.2	1.781	2.764	3.9	19.7	3 12	11 17.77	+ 0 42.8	1.598	2.590	1.5	18.5
3 22	11 9.55	+14 24.4	1.801	2.756	7.3	19.9	3 22	11 7.71	+ 1 1.7	1.591	2.568	5.6	18.7
4 1	11 2.17	+14 47.9	1.846	2.749	10.9	20.1	4 1	10 58.72	+ 1 18.8	1.612	2.546	10.1	18.9
4 11	10 56.68	+14 53.8	1.914	2.741	14.2	20.3	4 11	10 51.77	+ 1 29.3	1.656	2.523	14.1	19.1
<b>429204</b>	2009 <i>WK</i> <sub>168</sub>		3 9.6 104°69	3°8/13.6 17			<b>160711</b>	2000 <i>QK</i> <sub>73</sub>		3 9.6 124°54	1°1/10.5 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>499632</b>	2010 <i>UW</i> <sub>98</sub>		3 9.6 144°36'	5°5'/15.5 18			<b>305728</b>	2009 <i>CD</i> <sub>38</sub>		3 9.6 25°35'	0°5'/9.2 18		
2 1	11 46.02	-14 28.9	2.195	2.899	15.7	22.2	2 1	11 43.73	+ 3 2.5	1.166	1.997	20.0	20.6
2 11	11 41.54	-14 44.8	2.106	2.909	13.3	22.0	2 11	11 41.14	+ 3 19.9	1.104	2.005	15.5	20.4
2 21	11 35.00	-14 39.3	2.036	2.918	10.5	21.8	2 21	11 35.37	+ 3 56.1	1.061	2.015	10.3	20.1
3 2	11 26.91	-14 11.7	1.990	2.927	7.6	21.7	3 2	11 27.21	+ 4 45.5	1.040	2.025	4.4	19.8
3 12	11 18.09	-13 23.9	1.971	2.936	5.7	21.6	3 12	11 18.03	+ 5 39.1	1.044	2.036	1.8	19.7
3 22	11 9.45	-12 20.3	1.980	2.943	6.1	21.6	3 22	11 9.36	+ 6 27.2	1.072	2.049	7.6	20.1
4 1	11 1.89	-11 7.7	2.018	2.951	8.4	21.8	4 1	11 2.59	+ 7 1.9	1.123	2.062	12.9	20.4
4 11	10 56.11	- 9 53.7	2.082	2.957	11.3	21.9	4 11	10 58.64	+ 7 18.4	1.194	2.076	17.4	20.7
<b>478941</b>	2012 <i>XU</i> <sub>36</sub>		3 9.6 212°79'	4°3'/14.8 17			<b>63718</b>	2001 <i>QT</i> <sub>225</sub>		3 9.6 105°31'	4°1'/14.1 18		
2 1	11 41.53	-12 23.9	2.640	3.351	13.2	21.7	2 1	11 42.84	-10 15.8	2.360	3.089	14.1	19.6
2 11	11 37.81	-12 31.8	2.536	3.348	11.0	21.5	2 11	11 38.94	-10 28.8	2.268	3.094	11.7	19.4
2 21	11 32.40	-12 22.6	2.453	3.344	8.6	21.4	2 21	11 33.21	-10 24.4	2.197	3.099	8.9	19.3
3 2	11 25.74	-11 56.0	2.396	3.341	6.1	21.2	3 2	11 26.11	-10 2.7	2.151	3.104	6.0	19.1
3 12	11 18.46	-11 14.0	2.367	3.337	4.4	21.1	3 12	11 18.37	- 9 25.9	2.133	3.109	4.1	19.0
3 22	11 11.25	-10 20.2	2.366	3.333	4.9	21.1	3 22	11 10.78	- 8 38.1	2.144	3.114	5.0	19.0
4 1	11 4.82	- 9 19.6	2.394	3.329	7.2	21.2	4 1	11 4.11	- 7 44.8	2.183	3.119	7.7	19.2
4 11	10 59.77	- 8 18.0	2.449	3.324	9.8	21.4	4 11	10 58.99	- 6 51.7	2.247	3.124	10.5	19.4
<b>361149</b>	2006 <i>HC</i> <sub>99</sub>		3 9.6 251°55'	1°4'/8.3 16			<b>429632</b>	2011 <i>FU</i> <sub>92</sub>		3 9.6 286°52'	0°0'/9.4 17		
2 1	11 46.60	+ 4 58.1	1.806	2.609	15.1	22.6	2 1	11 43.99	+ 2 7.6	1.997	2.789	14.3	21.6
2 11	11 42.59	+ 5 35.6	1.706	2.593	11.8	22.3	2 11	11 40.38	+ 2 26.9	1.886	2.766	11.2	21.4
2 21	11 36.06	+ 6 27.1	1.628	2.577	7.8	22.1	2 21	11 34.51	+ 3 0.0	1.797	2.742	7.6	21.1
3 2	11 27.51	+ 7 27.9	1.576	2.560	3.4	21.8	3 2	11 26.82	+ 3 43.9	1.735	2.717	3.4	20.8
3 12	11 17.87	+ 8 30.6	1.552	2.542	2.3	21.6	3 12	11 18.11	+ 4 33.5	1.700	2.693	1.1	20.6
3 22	11 8.25	+ 9 27.6	1.556	2.525	6.8	21.9	3 22	11 9.36	+ 5 22.7	1.694	2.668	5.7	20.8
4 1	10 59.82	+10 12.3	1.587	2.506	11.3	22.1	4 1	11 1.57	+ 6 5.3	1.716	2.644	10.0	21.0
4 11	10 53.49	+10 40.3	1.641	2.488	15.3	22.3	4 11	10 55.63	+ 6 36.4	1.761	2.619	13.8	21.2
<b>387033</b>	2012 <i>SO</i> <sub>32</sub>		3 9.6 179°10'	2°3'/12.3 17			<b>122</b>	Gerda		3 9.6 26°57'	0°1'/9.7 18		
2 1	11 43.66	- 5 41.2	2.763	3.503	12.0	22.5	2 1	11 41.14	+ 1 24.0	2.344	3.130	12.6	12.9
2 11	11 39.28	- 5 38.3	2.664	3.505	9.7	22.3	2 11	11 37.61	+ 1 49.9	2.255	3.131	9.8	12.8
2 21	11 33.28	- 5 22.2	2.588	3.506	7.0	22.1	2 21	11 32.31	+ 2 27.7	2.190	3.132	6.5	12.5
3 2	11 26.10	- 4 54.0	2.539	3.506	4.1	21.9	3 2	11 25.72	+ 3 14.2	2.152	3.134	2.9	12.3
3 12	11 18.36	- 4 16.3	2.520	3.506	2.3	21.8	3 12	11 18.53	+ 4 4.9	2.142	3.135	0.9	12.1
3 22	11 10.72	- 3 33.0	2.531	3.506	4.0	21.9	3 22	11 11.50	+ 4 54.4	2.163	3.137	4.6	12.4
4 1	11 3.86	- 2 48.4	2.571	3.505	6.8	22.1	4 1	11 5.36	+ 5 38.1	2.211	3.138	8.1	12.6
4 11	10 58.34	- 2 6.9	2.639	3.503	9.6	22.3	4 11	11 0.73	+ 6 11.9	2.284	3.140	11.2	12.8
<b>76588</b>	2000 <i>GK</i> <sub>142</sub>		3 9.6 248°78'	5°9'/1.9 18 R			<b>96668</b>	1999 <i>JH</i> <sub>24</sub>		3 9.6 223°23'	2°9'/7.1 18		
2 1	11 44.47	+21 40.2	2.508	3.324	11.0	19.2	2 1	11 49.22	+ 9 38.4	1.830	2.638	14.7	18.8
2 11	11 40.24	+22 54.2	2.423	3.309	8.8	19.0	2 11	11 44.50	+10 17.6	1.740	2.630	11.4	18.6
2 21	11 34.10	+24 8.2	2.362	3.295	6.8	18.9	2 21	11 37.24	+11 5.8	1.672	2.622	7.5	18.4
3 2	11 26.52	+25 15.1	2.330	3.280	5.9	18.8	3 2	11 28.01	+11 56.9	1.631	2.613	3.8	18.1
3 12	11 18.22	+26 8.2	2.326	3.264	6.8	18.8	3 12	11 17.79	+12 43.6	1.619	2.603	3.7	18.1
3 22	11 10.04	+26 42.7	2.350	3.249	8.9	18.9	3 22	11 7.72	+13 19.1	1.634	2.593	7.6	18.3
4 1	11 2.79	+26 56.2	2.399	3.233	11.4	19.0	4 1	10 58.96	+13 38.7	1.677	2.583	11.6	18.5
4 11	10 57.14	+26 48.7	2.470	3.216	13.6	19.2	4 11	10 52.36	+13 40.3	1.741	2.571	15.2	18.7
<b>503016</b>	2015 <i>FP</i> <sub>112</sub>		3 9.6 268°57'	0°8'/8.8 17			<b>89806</b>	2002 <i>AL</i> <sub>160</sub>		3 9.6 253°45'	1°9'/7.0 18		
2 1	11 45.27	+ 5 35.1	2.282	3.075	12.7	21.0	2 1	11 39.76	+ 6 53.5	2.583	3.384	11.1	19.9
2 11	11 40.87	+ 5 45.9	2.188	3.069	9.8	20.8	2 11	11 36.46	+ 7 55.9	2.487	3.376	8.5	19.7
2 21	11 34.51	+ 6 5.1	2.117	3.063	6.5	20.6	2 21	11 31.53	+ 9 7.8	2.418	3.367	5.5	19.5
3 2	11 26.69	+ 6 29.4	2.074	3.057	2.8	20.3	3 2	11 25.38	+10 24.5	2.376	3.359	2.6	19.3
3 12	11 18.17	+ 6 54.6	2.060	3.051	1.5	20.2	3 12	11 18.63	+11 40.1	2.365	3.350	2.6	19.3
3 22	11 9.78	+ 7 16.2	2.075	3.045	5.2	20.4	3 22	11 11.98	+12 48.8	2.383	3.342	5.5	19.5
4 1	11 2.37	+ 7 30.5	2.119	3.039	8.8	20.6	4 1	11 6.10	+13 45.9	2.430	3.333	8.6	19.6
4 11	10 56.61	+ 7 34.9	2.187	3.033	11.9	20.8	4 11	11 1.56	+14 28.3	2.501	3.324	11.4	19.8
<b>229083</b>	2004 <i>NE</i> <sub>11</sub>		3 9.6 193°09'	3°2'/5.5 17			<b>261392</b>	2005 <i>UJ</i> <sub>413</sub>		3 9.6 266°41'	8°2'/21.2 18		
2 1	11 45.44	+12 48.2	2.652	3.454	10.9	21.4	2 1	11 40.90	-27 49.7	2.841	3.435	14.5	20.7
2 11	11 40.73	+13 46.6	2.564	3.451	8.3	21.2	2 11	11 37.49	-28 14.3	2.718	3.417	13.1	20.5
2 21	11 34.28	+14 49.9	2.502	3.448	5.6	21.0	2 21	11 32.32	-28 16.8	2.613	3.399	11.6	20.4
3 2	11 26.55	+15 52.6	2.469	3.444	3.5	20.9	3 2	11 25.78	-27 54.2	2.528	3.380	9.9	20.2
3 12	11 18.22	+16 49.0	2.466	3.440	3.9	20.9	3 12	11 18.50	-27 5.7	2.467	3.361	8.6	20.1
3 22	11 10.03	+17 34.3	2.494	3.434	6.4	21.1	3 22	11 11.19	-25 53.0	2.432	3.342	8.2	20.0
4 1	11 2.70	+18 5.1	2.549	3.428	9.2	21.2	4 1	11 4.63	-24 20.7	2.424	3.323	8.8	20.0
4 11	10 56.84	+18 20.1	2.629	3.422	11.7	21.4	4 11	10 59.47	-22 35.7	2.442	3.303	10.4	20.1
<b>466440</b>	2013 <i>TW</i> <sub>70</sub>		3 9.6 157°61'	3°1'/6.6 17			<b>249354</b>	2008 <i>YX</i> <sub>7</sub>		3 9.6 59°82'	6°1'/2.7 17		
2 1	11 49.44	+12 50.4	2.297	3.098	12.3	21.8	2 1	11 43.42	+19 19.4	2.040	2.866	12.7	19.9
2 11	11 43.96	+13 19.0	2.218	3.104	9.5	21.6	2 11	11 39.65	+20 40.5	1.978	2.874	10.0	19.7
2 21	11 36.46	+13 51.2	2.162	3.109	6.3	21.4	2 21	11 33.77	+22 2.1	1.941	2.882	7.4	19.6
3 2	11 27.51	+14 21.9	2.136	3.114	3.6	21.3	3 2	11 26.37	+23 15.9	1.931	2.890	6.1	19.5
3 12	11 17.94	+14 45.9	2.139	3.118	3.7	21.3	3 12	11 18.34	+24 14.1	1.948	2.898	7.1	19.6
3 22	11 8.64	+14 59.1	2.171	3.122	6.6	21.5	3 22	11 10.63	+24 51.4	1.993	2.906	9.5	19.7
4 1	11 0.48	+14 58.9	2.232	3.125	9.7	21.7	4 1	11 4.11	+25 5.6	2.061	2.914	12.2	19.9
4 11	10 54.10	+14 44.7	2.316	3.128	12.5	21.8	4 11	10 59.46	+24 57.2	2.151	2.923	14.6	20.1
<b>465684</b>	2009 <i>SA</i> <sub>213</sub>		3 9.6 261°57'	4°8'/5.5 17			<b>315537</b>	2008 <i>BY</i> <sub>15</sub>		3 9.6 352°58'	2°5'/11.3 18		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>415070</b>	2012 <i>BS</i> <sub>59</sub>		3 9.6 68°18'	0°7/ 9.0 18			<b>126970</b>	2002 <i>FZ</i> <sub>21</sub>		3 9.6 289°75'	3°2/ 6.2 18		
2 1	11 47.99	+ 3 45.2	1.506	2.314	17.4	21.4	2 1	11 41.61	+ 8 52.9	1.897	2.715	13.9	19.5
2 11	11 43.65	+ 4 7.7	1.444	2.333	13.4	21.2	2 11	11 38.60	+10 2.5	1.802	2.699	10.7	19.2
2 21	11 36.62	+ 4 44.7	1.402	2.351	8.8	21.0	2 21	11 33.34	+11 24.2	1.731	2.683	7.0	19.0
3 2	11 27.67	+ 5 30.8	1.386	2.370	3.8	20.7	3 2	11 26.32	+12 51.3	1.686	2.668	3.7	18.7
3 12	11 17.96	+ 6 18.6	1.396	2.388	1.7	20.6	3 12	11 18.39	+14 15.0	1.670	2.652	4.2	18.7
3 22	11 8.75	+ 7 0.8	1.434	2.407	6.6	21.0	3 22	11 10.51	+15 27.1	1.682	2.636	7.8	18.9
4 1	11 1.19	+ 7 31.4	1.497	2.426	11.1	21.3	4 1	11 3.71	+16 21.2	1.719	2.620	11.7	19.1
4 11	10 56.05	+ 7 47.0	1.583	2.444	15.0	21.6	4 11	10 58.81	+16 53.7	1.779	2.605	15.2	19.3
<b>371206</b>	2006 <i>AO</i> <sub>39</sub>		3 9.6 122°62'	0°7/10.3 17			<b>194271</b>	2001 <i>UN</i> <sub>12</sub>		3 9.6 95°29'	4°6/13.3 18		
2 1	11 45.20	+ 0 5.7	2.069	2.850	14.2	21.7	2 1	11 46.49	- 8 42.0	1.515	2.279	19.3	20.4
2 11	11 40.93	+ 0 21.7	1.987	2.858	11.2	21.5	2 11	11 42.76	- 8 56.3	1.437	2.287	15.8	20.1
2 21	11 34.60	+ 0 51.4	1.926	2.866	7.5	21.3	2 21	11 36.25	- 8 45.9	1.377	2.296	11.8	19.9
3 2	11 26.75	+ 1 31.9	1.893	2.873	3.5	21.0	3 2	11 27.63	- 8 10.8	1.340	2.304	7.5	19.7
3 12	11 18.23	+ 2 18.2	1.888	2.881	1.0	20.8	3 12	11 18.00	- 7 14.7	1.329	2.312	4.7	19.5
3 22	11 9.94	+ 3 4.8	1.912	2.888	4.9	21.1	3 22	11 8.66	- 6 5.2	1.344	2.320	6.5	19.7
4 1	11 2.77	+ 3 46.3	1.964	2.895	8.8	21.4	4 1	11 0.86	- 4 51.7	1.385	2.328	10.5	19.9
4 11	10 57.38	+ 4 18.3	2.041	2.901	12.1	21.6	4 11	10 55.49	- 3 43.5	1.449	2.336	14.6	20.2
<b>6796</b>	Sundsvall		3 9.6 222°16'	1°5/11.2 18			<b>52422</b>	LPL		3 9.6 21°43'	10°9/18.9 18		
2 1	11 42.68	- 3 7.6	2.105	2.877	14.3	18.3	2 1	11 49.23	-23 2.3	1.990	2.640	18.6	18.4
2 11	11 39.08	- 2 45.9	2.010	2.873	11.4	18.1	2 11	11 44.63	-24 55.6	1.906	2.646	16.7	18.2
2 21	11 33.45	- 2 7.4	1.936	2.870	7.9	17.9	2 21	11 37.44	-26 26.7	1.839	2.654	14.6	18.1
3 2	11 26.29	- 1 14.5	1.889	2.866	4.1	17.6	3 2	11 28.19	-27 29.7	1.794	2.662	12.6	17.9
3 12	11 18.38	- 0 11.9	1.870	2.862	1.5	17.4	3 12	11 17.81	-28 1.4	1.772	2.670	11.2	17.9
3 22	11 10.58	+ 0 54.2	1.881	2.858	4.8	17.7	3 22	11 7.46	-28 2.0	1.774	2.680	11.0	17.9
4 1	11 3.79	+ 1 57.3	1.919	2.854	8.6	17.9	4 1	10 58.33	-27 36.0	1.801	2.689	11.9	17.9
4 11	10 58.70	+ 2 51.7	1.982	2.849	12.1	18.1	4 11	10 51.37	-26 51.3	1.850	2.700	13.7	18.1
<b>388296</b>	2006 <i>SZ</i> <sub>118</sub>		3 9.6 142°13'	0°7/10.3 18			<b>495999</b>	2007 <i>VM</i> <sub>152</sub>		3 9.6 136°39'	3°3/14.1 17		
2 1	11 49.94	+ 1 57.5	2.711	3.472	11.7	20.9	2 1	11 42.68	-10 33.2	2.894	3.607	12.1	21.8
2 11	11 44.03	+ 1 41.4	2.619	3.479	9.2	20.7	2 11	11 38.43	-10 28.9	2.803	3.620	10.0	21.7
2 21	11 36.38	+ 1 33.1	2.552	3.486	6.2	20.5	2 21	11 32.69	-10 9.3	2.734	3.633	7.5	21.5
3 2	11 27.49	+ 1 31.0	2.514	3.493	3.0	20.3	3 2	11 25.88	- 9 35.2	2.692	3.644	5.0	21.4
3 12	11 18.03	+ 1 32.6	2.507	3.500	0.9	20.2	3 12	11 18.59	- 8 49.0	2.679	3.656	3.4	21.3
3 22	11 8.76	+ 1 35.4	2.532	3.506	4.1	20.4	3 22	11 11.45	- 7 54.6	2.696	3.667	4.1	21.3
4 1	11 0.41	+ 1 36.5	2.587	3.512	7.2	20.6	4 1	11 5.09	- 6 56.4	2.743	3.677	6.4	21.5
4 11	10 53.55	+ 1 33.6	2.669	3.518	10.0	20.8	4 11	11 0.00	- 5 59.5	2.817	3.687	8.8	21.7
<b>500993</b>	2013 <i>RA</i> <sub>18</sub>		3 9.6 239°73'	1°4/10.9 17			<b>456722</b>	2007 <i>RK</i> <sub>322</sub>		3 9.6 133°50'	1°8/ 7.9 18		
2 1	11 47.94	- 1 12.2	2.213	2.979	13.9	22.5	2 1	11 49.20	+ 6 32.4	1.898	2.696	14.7	22.3
2 11	11 43.17	- 1 14.0	2.103	2.964	11.1	22.3	2 11	11 44.15	+ 7 13.2	1.825	2.710	11.3	22.1
2 21	11 36.22	- 1 2.7	2.015	2.948	7.7	22.0	2 21	11 36.78	+ 8 4.5	1.775	2.723	7.3	21.9
3 2	11 27.56	- 0 39.8	1.955	2.932	4.0	21.8	3 2	11 27.74	+ 9 0.6	1.752	2.736	3.3	21.6
3 12	11 17.97	- 0 8.8	1.923	2.915	1.5	21.5	3 12	11 18.01	+ 9 54.6	1.759	2.748	2.6	21.6
3 22	11 8.38	+ 0 25.9	1.922	2.898	4.9	21.7	3 22	11 8.62	+10 40.2	1.794	2.759	6.5	21.9
4 1	10 59.74	+ 0 59.2	1.949	2.880	8.8	21.9	4 1	11 0.57	+11 12.5	1.857	2.769	10.3	22.1
4 11	10 52.85	+ 1 26.5	2.001	2.861	12.4	22.1	4 11	10 54.58	+11 29.2	1.943	2.779	13.7	22.3
<b>425228</b>	2009 <i>VT</i> <sub>90</sub>		3 9.6 78°74'	0°5/ 9.2 18			<b>491676</b>	2012 <i>UD</i> <sub>31</sub>		3 9.6 113°84'	0°7/ 8.8 17		
2 1	11 47.18	+ 3 49.8	1.918	2.712	14.7	21.7	2 1	11 43.03	+ 4 22.6	2.675	3.460	11.2	22.3
2 11	11 42.46	+ 4 8.7	1.851	2.733	11.3	21.5	2 11	11 38.75	+ 4 54.3	2.598	3.475	8.6	22.2
2 21	11 35.57	+ 4 39.0	1.807	2.753	7.4	21.3	2 21	11 32.90	+ 5 34.5	2.545	3.490	5.6	22.0
3 2	11 27.16	+ 5 16.4	1.790	2.773	3.2	21.1	3 2	11 25.97	+ 6 19.7	2.521	3.505	2.4	21.8
3 12	11 18.15	+ 5 55.3	1.801	2.793	1.3	21.0	3 12	11 18.58	+ 7 5.4	2.527	3.519	1.3	21.7
3 22	11 9.54	+ 6 30.3	1.841	2.813	5.5	21.3	3 22	11 11.40	+ 7 47.5	2.564	3.532	4.4	22.0
4 1	11 2.23	+ 6 56.7	1.908	2.833	9.4	21.6	4 1	11 5.08	+ 8 22.1	2.629	3.546	7.5	22.2
4 11	10 56.88	+ 7 11.5	2.000	2.852	12.7	21.8	4 11	11 0.12	+ 8 46.7	2.720	3.559	10.1	22.4
<b>246364</b>	2007 <i>TS</i> <sub>385</sub>		3 9.6 111°42'	1°6/11.4 17			<b>338307</b>	2002 <i>VO</i> <sub>10</sub>		3 9.6 151°31'	3°6/13.8 17		
2 1	11 42.36	- 3 28.4	2.361	3.125	13.2	21.3	2 1	11 41.83	- 9 57.2	2.412	3.143	13.8	20.6
2 11	11 38.51	- 3 11.2	2.275	3.133	10.5	21.1	2 11	11 38.17	- 9 53.6	2.317	3.146	11.4	20.4
2 21	11 32.89	- 2 39.3	2.212	3.142	7.3	20.9	2 21	11 32.72	- 9 32.1	2.243	3.149	8.6	20.2
3 2	11 25.99	- 1 55.0	2.175	3.150	3.9	20.7	3 2	11 25.96	- 8 53.3	2.195	3.152	5.6	20.1
3 12	11 18.51	- 1 2.5	2.167	3.158	1.6	20.6	3 12	11 18.57	- 8 0.1	2.175	3.154	3.6	19.9
3 22	11 11.22	- 0 6.8	2.189	3.166	4.3	20.8	3 22	11 11.31	- 6 57.2	2.184	3.157	4.7	20.0
4 1	11 4.86	+ 0 46.9	2.240	3.174	7.6	21.0	4 1	11 4.94	- 5 50.5	2.221	3.159	7.5	20.2
4 11	11 0.02	+ 1 33.6	2.316	3.182	10.7	21.2	4 11	11 0.06	- 4 45.9	2.285	3.161	10.4	20.4
<b>517026</b>	2012 <i>UW</i> <sub>179</sub>		3 9.6 263°83'	0°7/10.4 17			<b>221260</b>	2005 <i>UB</i> <sub>303</sub>		3 9.6 155°23'	0°4/ 9.1 18		
2 1	11 41.52	- 0 29.5	2.329	3.108	12.9	21.7	2 1	11 44.57	+ 2 8.1	2.354	3.136	12.7	21.4
2 11	11 37.99	- 0 5.9	2.231	3.101	10.1	21.5	2 11	11 40.22	+ 2 51.2	2.269	3.144	9.8	21.2
2 21	11 32.64	+ 0 31.2	2.156	3.095	6.9	21.2	2 21	11 34.04	+ 3 46.5	2.208	3.151	6.5	21.0
3 2	11 25.92	+ 1 19.2	2.108	3.088	3.3	21.0	3 2	11 26.52	+ 4 50.0	2.175	3.158	2.8	20.8
3 12	11 18.52	+ 2 13.6	2.088	3.081	0.9	20.8	3 12	11 18.41	+ 5 56.0	2.172	3.164	1.2	20.7
3 22	11 11.22	+ 3 9.0	2.098	3.074	4.5	21.0	3 22	11 10.49	+ 6 58.9	2.199	3.170	4.9	20.9
4 1	11 4.80	+ 4 0.1	2.137	3.067	8.1	21.3	4 1	11 3.54	+ 7 53.5	2.255	3.175	8.4	21.2
4 11	10 59.89	+ 4 42.2	2.200	3.061	11.4	21.4	4 11	10 58.15	+ 8 35.9	2.336	3.179	11.4	21.4
<b>303205</b>	2004 <i>GQ</i> <sub>83</sub>		3 9.6 276°07'	5°6/15.7 17			<b>475686</b>	2006 <i>VA</i> <sub>88</sub>		3 9.6 250°47'	3°7/13.9 17		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>300272</b>	2007 <i>JK</i> <sub>28</sub>		3 9.6 233°37	2°5/11.7 17			<b>227893</b>	2007 <i>EZ</i> <sub>79</sub>		3 9.6 271°45	2°2/11.7 18		
2 1	11 45.93	- 4 55.7	1.706	2.479	17.1	21.9	2 1	11 42.84	- 4 28.1	2.007	2.776	15.0	21.1
2 11	11 42.23	- 4 42.8	1.607	2.469	13.9	21.7	2 11	11 39.45	- 4 16.2	1.902	2.762	12.1	20.8
2 21	11 35.93	- 4 8.3	1.529	2.459	9.9	21.4	2 21	11 33.88	- 3 46.0	1.818	2.748	8.6	20.6
3 2	11 27.55	- 3 13.4	1.475	2.449	5.5	21.1	3 2	11 26.60	- 2 59.1	1.759	2.733	4.8	20.3
3 12	11 18.06	- 2 3.3	1.448	2.438	2.5	20.9	3 12	11 18.41	- 1 59.6	1.729	2.719	2.2	20.1
3 22	11 8.61	- 0 45.4	1.448	2.427	5.8	21.1	3 22	11 10.24	- 0 53.5	1.726	2.704	5.1	20.3
4 1	11 0.40	+ 0 31.3	1.476	2.415	10.4	21.3	4 1	11 3.06	+ 0 12.1	1.752	2.690	9.1	20.5
4 11	10 54.39	+ 1 38.4	1.527	2.402	14.6	21.5	4 11	10 57.68	+ 1 10.5	1.801	2.675	12.8	20.7
<b>408856</b>	2001 <i>SL</i> <sub>217</sub>		3 9.6 66°93	1°4/ 8.5 18			<b>37681</b>	1995 <i>FB</i> <sub>7</sub>		3 9.6 231°79	1°6/ 8.2 18		
2 1	11 47.87	+ 5 47.3	1.648	2.455	16.1	21.0	2 1	11 47.77	+ 5 49.9	1.870	2.670	14.8	20.6
2 11	11 43.33	+ 6 13.6	1.586	2.476	12.4	20.8	2 11	11 43.40	+ 6 27.0	1.773	2.659	11.5	20.4
2 21	11 36.31	+ 6 51.3	1.547	2.496	8.0	20.6	2 21	11 36.57	+ 7 16.5	1.699	2.648	7.6	20.1
3 2	11 27.55	+ 7 34.8	1.533	2.517	3.5	20.4	3 2	11 27.81	+ 8 13.5	1.652	2.635	3.3	19.8
3 12	11 18.12	+ 8 17.3	1.547	2.538	2.2	20.3	3 12	11 18.04	+ 9 11.0	1.633	2.623	2.4	19.7
3 22	11 9.18	+ 8 52.3	1.589	2.558	6.5	20.6	3 22	11 8.35	+10 1.9	1.643	2.609	6.7	20.0
4 1	11 1.77	+ 9 15.1	1.656	2.579	10.7	20.9	4 1	10 59.85	+10 40.1	1.679	2.595	11.0	20.2
4 11	10 56.59	+ 9 23.1	1.747	2.599	14.2	21.2	4 11	10 53.41	+11 2.1	1.739	2.581	14.8	20.4
<b>123676</b>	2000 <i>YN</i> <sub>91</sub>		3 9.6 108°34	3°9/ 5.6 18			<b>196601</b>	2003 <i>QY</i> <sub>68</sub>		3 9.6 270°04	0°1/ 9.6 18		
2 1	11 44.48	+12 33.5	1.972	2.790	13.4	19.9	2 1	12 9.58	+ 9 28.9	1.054	1.864	23.1	19.5
2 11	11 40.55	+13 33.2	1.897	2.793	10.3	19.7	2 11	12 2.44	+ 8 12.9	0.972	1.860	18.4	19.1
2 21	11 34.45	+14 39.1	1.846	2.796	6.9	19.5	2 21	11 50.42	+ 6 57.1	0.908	1.856	12.6	18.8
3 2	11 26.76	+15 44.2	1.823	2.800	4.2	19.3	3 2	11 34.29	+ 5 38.7	0.868	1.851	5.7	18.4
3 12	11 18.36	+16 40.9	1.827	2.803	4.8	19.4	3 12	11 15.99	+ 4 16.2	0.854	1.847	1.8	18.1
3 22	11 10.21	+17 23.2	1.860	2.806	7.8	19.5	3 22	10 58.10	+ 2 50.5	0.867	1.843	9.2	18.5
4 1	11 3.26	+17 47.2	1.918	2.809	11.2	19.8	4 1	10 43.10	+ 1 23.3	0.905	1.838	15.9	18.9
4 11	10 58.20	+17 51.7	1.998	2.812	14.2	20.0	4 11	10 32.57	- 0 4.3	0.964	1.834	21.5	19.2
<b>107907</b>	2001 <i>FZ</i> <sub>97</sub>		3 9.6 303°99	3°8/ 6.2 18			<b>91557</b>	1999 <i>RW</i> <sub>222</sub>		3 9.6 145°96	3°3/13.5 18		
2 1	11 41.82	+ 8 32.4	1.508	2.339	16.2	19.1	2 1	11 44.00	- 9 17.1	2.429	3.159	13.7	20.3
2 11	11 39.37	+ 9 45.9	1.419	2.323	12.5	18.8	2 11	11 39.78	- 9 12.0	2.338	3.168	11.3	20.1
2 21	11 34.19	+11 15.1	1.352	2.307	8.3	18.5	2 21	11 33.77	- 8 49.5	2.269	3.176	8.4	20.0
3 2	11 26.83	+12 51.8	1.310	2.292	4.4	18.3	3 2	11 26.44	- 8 10.4	2.225	3.184	5.4	19.8
3 12	11 18.31	+14 24.7	1.294	2.277	4.9	18.3	3 12	11 18.50	- 7 17.9	2.210	3.191	3.4	19.7
3 22	11 9.86	+15 43.0	1.304	2.262	9.2	18.5	3 22	11 10.73	- 6 16.6	2.225	3.198	4.6	19.8
4 1	11 2.77	+16 38.7	1.339	2.247	13.8	18.7	4 1	11 3.88	- 5 12.2	2.268	3.205	7.4	19.9
4 11	10 58.05	+17 7.9	1.393	2.233	17.8	18.9	4 11	10 58.56	- 4 10.7	2.338	3.211	10.3	20.1
<b>281112</b>	2007 <i>AN</i> <sub>14</sub>		3 9.6 84°28	1°7/10.9 18			<b>412280</b>	2013 <i>JL</i> <sub>11</sub>		3 9.6 183°72	3°3/ 6.6 17		
2 1	11 48.32	- 2 3.2	1.330	2.128	19.8	21.1	2 1	11 48.31	+10 49.2	1.953	2.762	13.9	22.0
2 11	11 44.39	- 1 54.5	1.262	2.141	15.7	20.8	2 11	11 43.58	+11 37.9	1.871	2.762	10.7	21.7
2 21	11 37.42	- 1 23.7	1.214	2.155	10.8	20.6	2 21	11 36.51	+12 34.2	1.813	2.762	7.1	21.5
3 2	11 28.17	- 0 34.1	1.188	2.168	5.4	20.3	3 2	11 27.71	+13 31.6	1.782	2.762	3.9	21.3
3 12	11 17.93	+ 0 27.2	1.189	2.181	1.8	20.1	3 12	11 18.10	+14 22.8	1.780	2.761	4.1	21.3
3 22	11 8.15	+ 1 31.0	1.215	2.194	6.5	20.4	3 22	11 8.73	+15 1.6	1.806	2.759	7.5	21.5
4 1	11 0.17	+ 2 28.2	1.267	2.207	11.6	20.7	4 1	11 0.61	+15 23.8	1.859	2.757	11.1	21.7
4 11	10 54.91	+ 3 11.7	1.340	2.220	16.0	21.0	4 11	10 54.49	+15 27.9	1.935	2.754	14.3	21.9
<b>418305</b>	2008 <i>FU</i> <sub>51</sub>		3 9.6 166°17	2°4/ 7.4 16			<b>224340</b>	2005 <i>UR</i> <sub>73</sub>		3 9.6 14°52	7°0/16.5 18		
2 1	11 47.72	+ 8 54.8	2.054	2.856	13.6	21.8	2 1	11 39.68	-15 56.8	1.602	2.336	19.5	19.6
2 11	11 42.95	+ 9 31.3	1.972	2.860	10.4	21.6	2 11	11 37.48	-16 13.5	1.518	2.339	16.7	19.3
2 21	11 36.00	+10 15.7	1.914	2.863	6.8	21.4	2 21	11 32.78	-16 0.5	1.452	2.342	13.4	19.1
3 2	11 27.45	+11 2.8	1.884	2.866	3.3	21.2	3 2	11 26.15	-15 15.9	1.406	2.346	9.9	18.9
3 12	11 18.17	+11 46.2	1.882	2.868	3.1	21.2	3 12	11 18.59	-14 2.2	1.385	2.351	7.3	18.8
3 22	11 9.13	+12 20.4	1.910	2.870	6.5	21.4	3 22	11 11.23	-12 26.3	1.388	2.356	7.5	18.8
4 1	11 1.27	+12 41.4	1.964	2.871	10.1	21.6	4 1	11 5.19	-10 38.6	1.418	2.362	10.2	19.0
4 11	10 55.31	+12 47.2	2.043	2.872	13.3	21.8	4 11	11 1.33	- 8 51.0	1.470	2.369	13.7	19.2
<b>498035</b>	2007 <i>HR</i> <sub>40</sub>		3 9.6 225°09	5°9/ 3.3 17			<b>199324</b>	2006 <i>BD</i> <sub>122</sub>		3 9.6 151°85	2°0/11.5 17		
2 1	11 48.26	+20 47.1	2.280	3.092	12.1	21.5	2 1	11 47.42	- 2 35.7	2.226	2.986	14.0	21.0
2 11	11 43.31	+21 46.1	2.198	3.084	9.6	21.3	2 11	11 42.58	- 2 46.7	2.135	2.991	11.2	20.8
2 21	11 36.23	+22 44.7	2.140	3.076	7.2	21.1	2 21	11 35.71	- 2 44.5	2.067	2.995	7.9	20.6
3 2	11 27.55	+23 35.7	2.111	3.067	5.9	21.0	3 2	11 27.33	- 2 30.4	2.026	2.999	4.3	20.4
3 12	11 18.13	+24 12.2	2.109	3.058	6.7	21.1	3 12	11 18.24	- 2 7.4	2.013	3.003	2.0	20.2
3 22	11 8.92	+24 29.7	2.136	3.048	9.0	21.2	3 22	11 9.32	- 1 39.7	2.031	3.007	4.6	20.4
4 1	11 0.82	+24 26.2	2.188	3.038	11.7	21.3	4 1	11 1.45	- 1 11.7	2.076	3.010	8.2	20.6
4 11	10 54.56	+24 2.4	2.262	3.028	14.2	21.5	4 11	10 55.30	- 0 48.1	2.148	3.013	11.4	20.9
<b>209042</b>	2003 <i>OR</i> <sub>18</sub>		3 9.6 244°96	7°4/13.9 16			<b>135496</b>	2001 <i>XZ</i> <sub>58</sub>		3 9.6 39°47	1°2/ 8.5 18		
2 1	11 56.01	-11 31.8	1.844	2.559	18.0	20.5	2 1	11 42.51	+ 4 37.6	1.804	2.613	14.9	18.8
2 11	11 50.18	-12 59.1	1.736	2.547	15.4	20.3	2 11	11 39.00	+ 5 15.9	1.746	2.636	11.4	18.6
2 21	11 41.37	-14 11.0	1.648	2.534	12.3	20.0	2 21	11 33.37	+ 6 6.1	1.710	2.661	7.4	18.4
3 2	11 30.08	-15 2.8	1.584	2.521	9.3	19.8	3 2	11 26.26	+ 7 2.5	1.701	2.685	3.1	18.2
3 12	11 17.28	-15 32.0	1.548	2.508	7.4	19.7	3 12	11 18.60	+ 7 58.4	1.719	2.710	2.0	18.2
3 22	11 4.28	-15 39.1	1.539	2.494	8.4	19.7	3 22	11 11.36	+ 8 47.3	1.766	2.736	5.9	18.5
4 1	10 52.50	-15 28.0	1.558	2.480	11.3	19.8	4 1	11 5.40	+ 9 24.3	1.838	2.762	9.7	18.8
4 11	10 43.10	-15 6.1	1.602	2.465	14.7	20.0	4 11	11 1.34	+ 9 46.3	1.934	2.788	13.0	19.0
<b>254607</b>	2005 <i>GC</i> <sub>139</sub>		3 9.6 311°77	0°5/10.0 17			<b>21319</b>	1996 <i>XX</i> <sub>26</sub>		3 9.6 318°95	8°7/		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>245192</b>	2004 TA <sub>288</sub>		3 9.6 168°35	0°1/ 9.5 18			<b>267764</b>	2003 QX <sub>30</sub>		3 9.6 255°63	1°7/ 7.5 17		
2 1	11 47.21	+ 1 16.4	1.849	2.637	15.4	21.6	2 1	11 40.73	+ 2 22.6	2.111	2.907	13.4	20.5
2 11	11 42.83	+ 1 53.3	1.764	2.642	12.0	21.4	2 11	11 37.69	+ 4 0.5	2.011	2.896	10.4	20.3
2 21	11 36.09	+ 2 46.1	1.702	2.645	8.0	21.1	2 21	11 32.65	+ 5 56.9	1.936	2.885	6.7	20.0
3 2	11 27.56	+ 3 50.5	1.665	2.648	3.5	20.9	3 2	11 26.06	+ 8 5.4	1.890	2.874	2.9	19.8
3 12	11 18.19	+ 4 59.7	1.658	2.650	1.2	20.7	3 12	11 18.67	+10 17.0	1.875	2.863	2.6	19.7
3 22	11 9.04	+ 6 6.2	1.679	2.652	5.8	21.0	3 22	11 11.34	+12 21.7	1.890	2.851	6.4	19.9
4 1	11 1.15	+ 7 3.2	1.728	2.653	10.1	21.3	4 1	11 4.93	+14 11.0	1.933	2.839	10.3	20.2
4 11	10 55.30	+ 7 45.9	1.800	2.654	13.8	21.5	4 11	11 0.18	+15 39.1	2.001	2.828	13.7	20.3
<b>246235</b>	2007 RK <sub>256</sub>		3 9.6 204°27	5°8/ 4.4 18			<b>209899</b>	2005 MZ <sub>29</sub>		3 9.6 230°00	1°0/ 10.9 17		
2 1	11 47.72	+15 19.8	1.666	2.492	15.2	20.4	2 1	11 41.49	- 2 4.7	2.759	3.522	11.5	21.3
2 11	11 43.60	+16 37.4	1.591	2.490	11.8	20.2	2 11	11 37.72	- 1 42.3	2.653	3.513	9.1	21.2
2 21	11 36.78	+18 1.0	1.539	2.487	8.3	20.0	2 21	11 32.38	- 1 7.6	2.571	3.503	6.3	21.0
3 2	11 27.91	+19 21.0	1.513	2.484	5.9	19.8	3 2	11 25.87	- 0 22.4	2.516	3.494	3.2	20.7
3 12	11 18.08	+20 27.2	1.515	2.481	6.9	19.9	3 12	11 18.76	+ 0 29.5	2.492	3.484	1.1	20.6
3 22	11 8.52	+21 12.0	1.543	2.478	10.1	20.1	3 22	11 11.70	+ 1 23.8	2.497	3.473	3.9	20.7
4 1	11 0.44	+21 31.2	1.595	2.474	13.7	20.3	4 1	11 5.37	+ 2 15.8	2.532	3.463	7.0	20.9
4 11	10 54.70	+21 24.9	1.668	2.470	17.0	20.5	4 11	11 0.31	+ 3 1.4	2.593	3.452	9.9	21.1
<b>375010</b>	2007 GW <sub>19</sub>		3 9.6 7°62	6°2/ 16.0 17			<b>361552</b>	2007 QJ <sub>8</sub>		3 9.6 136°70	1°3/ 8.5 18		
2 1	11 40.88	-15 16.8	1.838	2.562	17.7	20.2	2 1	11 49.77	+ 5 27.8	1.928	2.722	14.7	21.6
2 11	11 38.11	-15 26.4	1.747	2.562	15.1	20.0	2 11	11 44.59	+ 6 1.0	1.853	2.735	11.3	21.4
2 21	11 33.06	-15 9.6	1.674	2.563	12.0	19.8	2 21	11 37.11	+ 6 45.2	1.801	2.748	7.4	21.2
3 2	11 26.26	-14 25.3	1.623	2.564	8.8	19.6	3 2	11 27.97	+ 7 35.3	1.777	2.760	3.2	21.0
3 12	11 18.59	-13 15.8	1.597	2.565	6.4	19.5	3 12	11 18.13	+ 8 24.8	1.781	2.771	2.1	20.9
3 22	11 11.07	-11 47.1	1.598	2.566	6.7	19.5	3 22	11 8.62	+ 9 7.7	1.815	2.782	6.1	21.2
4 1	11 4.71	-10 8.0	1.626	2.567	9.4	19.6	4 1	11 0.42	+ 9 39.1	1.876	2.792	10.0	21.4
4 11	11 0.30	- 8 28.8	1.678	2.569	12.7	19.8	4 11	10 54.26	+ 9 56.3	1.961	2.801	13.4	21.7
<b>308743</b>	2006 JY <sub>30</sub>		3 9.6 324°45	1°6/ 8.6 17			<b>492633</b>	2014 OU <sub>304</sub>		3 9.6 259°67	0°0/ 9.4 17		
2 1	11 43.89	+ 5 40.6	1.248	2.081	18.8	20.5	2 1	11 48.11	+ 1 51.5	1.674	2.469	16.5	22.8
2 11	11 41.55	+ 5 56.4	1.161	2.064	14.7	20.2	2 11	11 44.14	+ 2 12.8	1.567	2.448	13.0	22.5
2 21	11 35.99	+ 6 28.0	1.093	2.049	9.8	19.9	2 21	11 37.38	+ 2 50.9	1.483	2.427	8.8	22.2
3 2	11 27.77	+ 7 10.2	1.048	2.034	4.3	19.5	3 2	11 28.33	+ 3 42.6	1.423	2.405	4.0	21.8
3 12	11 18.10	+ 7 54.5	1.028	2.019	2.6	19.4	3 12	11 17.95	+ 4 41.5	1.390	2.383	1.3	21.6
3 22	11 8.50	+ 8 31.8	1.032	2.006	8.3	19.7	3 22	11 7.48	+ 5 39.8	1.386	2.360	6.6	21.9
4 1	11 0.57	+ 8 54.3	1.058	1.993	13.9	19.9	4 1	10 58.23	+ 6 29.7	1.408	2.337	11.6	22.1
4 11	10 55.48	+ 8 57.3	1.104	1.982	18.8	20.2	4 11	10 51.29	+ 7 5.1	1.452	2.313	16.1	22.3
<b>262487</b>	2006 US <sub>200</sub>		3 9.6 44°73	2°7/ 11.8 18			<b>130536</b>	2000 QV <sub>208</sub>		3 9.6 90°09	2°6/ 7.5 18		
2 1	11 44.82	- 4 1.7	1.451	2.242	18.8	20.4	2 1	11 48.38	+ 7 28.1	1.554	2.369	16.6	19.9
2 11	11 41.42	- 4 4.6	1.384	2.257	15.0	20.2	2 11	11 43.96	+ 8 19.7	1.492	2.386	12.7	19.7
2 21	11 35.33	- 3 45.9	1.337	2.272	10.6	20.0	2 21	11 36.88	+ 9 23.0	1.452	2.404	8.2	19.5
3 2	11 27.24	- 3 7.7	1.313	2.288	5.8	19.8	3 2	11 27.90	+10 30.5	1.438	2.421	3.8	19.3
3 12	11 18.32	- 2 15.7	1.315	2.305	2.7	19.6	3 12	11 18.17	+11 33.3	1.452	2.439	3.5	19.3
3 22	11 9.81	- 1 17.9	1.343	2.322	6.0	19.8	3 22	11 8.93	+12 23.5	1.492	2.455	7.7	19.6
4 1	11 2.89	- 0 22.5	1.396	2.340	10.4	20.1	4 1	11 1.30	+12 56.1	1.558	2.472	11.8	19.8
4 11	10 58.36	+ 0 23.3	1.472	2.357	14.5	20.4	4 11	10 56.05	+13 8.8	1.647	2.488	15.4	20.1
<b>287188</b>	2002 SE		3 9.6 258°88	2°5/ 7.3 17			<b>40552</b>	1999 RX <sub>114</sub>		3 9.6 133°57	2°9/ 12.4 18		
2 1	11 46.53	+10 19.5	2.145	2.950	12.9	20.4	2 1	11 45.60	- 5 28.2	2.103	2.858	14.8	18.9
2 11	11 42.00	+10 43.9	2.058	2.947	10.0	20.2	2 11	11 41.33	- 5 37.5	2.013	2.863	12.0	18.7
2 21	11 35.38	+11 14.3	1.995	2.944	6.6	19.9	2 21	11 34.98	- 5 30.5	1.945	2.867	8.7	18.5
3 2	11 27.21	+11 45.8	1.960	2.941	3.3	19.7	3 2	11 27.07	- 5 8.3	1.903	2.871	5.2	18.3
3 12	11 18.32	+12 13.1	1.953	2.938	3.1	19.7	3 12	11 18.41	- 4 33.8	1.889	2.876	2.9	18.2
3 22	11 9.63	+12 31.5	1.976	2.935	6.4	19.9	3 22	11 9.92	- 3 51.9	1.903	2.879	4.9	18.3
4 1	11 2.04	+12 37.6	2.025	2.932	9.9	20.1	4 1	11 2.51	- 3 8.2	1.946	2.883	8.4	18.5
4 11	10 56.24	+12 29.9	2.098	2.929	13.0	20.3	4 11	10 56.87	- 2 28.1	2.014	2.887	11.7	18.7
<b>372662</b>	2009 WS <sub>74</sub>		3 9.6 135°90	0°6/ 9.0 17			<b>290995</b>	2005 XJ <sub>74</sub>		3 9.6 222°82	0°0/ 9.5 17		
2 1	11 43.95	+ 2 50.0	2.068	2.861	13.8	21.6	2 1	11 45.90	+ 2 18.0	2.123	2.908	13.8	21.3
2 11	11 40.04	+ 3 27.6	1.986	2.866	10.7	21.4	2 11	11 41.60	+ 2 33.3	2.027	2.903	10.8	21.1
2 21	11 34.09	+ 4 18.1	1.926	2.872	7.0	21.1	2 21	11 35.19	+ 3 0.7	1.955	2.897	7.2	20.9
3 2	11 26.64	+ 5 17.2	1.893	2.877	3.0	20.9	3 2	11 27.18	+ 3 37.0	1.909	2.891	3.2	20.6
3 12	11 18.51	+ 6 18.8	1.890	2.882	1.4	20.8	3 12	11 18.37	+ 4 17.5	1.892	2.885	1.0	20.4
3 22	11 10.59	+ 7 16.7	1.915	2.886	5.4	21.1	3 22	11 9.68	+ 4 56.8	1.904	2.878	5.2	20.7
4 1	11 3.75	+ 8 5.1	1.968	2.891	9.2	21.3	4 1	11 2.03	+ 5 30.0	1.944	2.871	9.1	20.9
4 11	10 58.67	+ 8 40.4	2.045	2.895	12.5	21.5	4 11	10 56.14	+ 5 53.1	2.009	2.864	12.5	21.1
<b>225607</b>	2000 YS <sub>49</sub>		3 9.6 86°57	5°6/ 3.3 18			<b>362437</b>	2010 RK <sub>52</sub>		3 9.6 198°22	0°8/ 10.4 17		
2 1	11 44.84	+16 38.2	1.968	2.792	13.3	20.4	2 1	11 46.61	- 0 50.0	2.125	2.898	14.2	22.0
2 11	11 40.75	+18 13.4	1.915	2.811	10.2	20.2	2 11	11 42.15	- 0 26.3	2.028	2.894	11.2	21.7
2 21	11 34.53	+19 51.0	1.887	2.831	7.3	20.1	2 21	11 35.56	+ 0 12.4	1.954	2.891	7.6	21.5
3 2	11 26.79	+21 21.9	1.886	2.851	5.6	20.0	3 2	11 27.34	+ 1 3.4	1.906	2.886	3.7	21.2
3 12	11 18.48	+22 37.6	1.914	2.870	6.6	20.1	3 12	11 18.32	+ 2 1.7	1.888	2.881	1.0	21.0
3 22	11 10.55	+23 32.2	1.969	2.889	9.2	20.3	3 22	11 9.40	+ 3 1.2	1.900	2.875	5.0	21.3
4 1	11 3.89	+24 3.0	2.049	2.908	12.0	20.5	4 1	11 1.53	+ 3 55.9	1.939	2.869	8.9	21.5
4 11	10 59.15	+24 10.3	2.150	2.926	14.5	20.7	4 11	10 55.44	+ 4 40.5	2.004	2.861	12.5	21.7
<b>246210</b>	2007 RF <sub>150</sub>		3 9.6 207°23	4°3/ 14.5 18			<b>179094</b>	2001 SA <sub>189</sub>		3 9.6 216°29	1°2/ 8.3 17		
2 1	11 43.59	-11 33.6	2.532	3.247	13.6								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>63952</b>	2001 <i>SU</i> <sub>64</sub>		3 9.6 38°32'	4.1/13.9	18		<b>225008</b>	2007 <i>EL</i> <sub>167</sub>		3 9.7 308°48'	5.3/5.0	17	
2 1	11 40.37	-10 56.6	1.666	2.422	18.1	18.6	2 1	11 46.96	+16 7.7	1.782	2.606	14.4	19.8
2 11	11 37.82	-10 33.9	1.583	2.428	14.9	18.4	2 11	11 42.86	+16 58.5	1.703	2.600	11.2	19.6
2 21	11 32.91	-9 43.6	1.519	2.435	11.2	18.1	2 21	11 36.23	+17 52.9	1.647	2.594	7.9	19.4
3 2	11 26.21	-8 26.8	1.479	2.442	7.1	17.9	3 2	11 27.70	+18 42.8	1.616	2.588	5.5	19.3
3 12	11 18.68	-6 49.1	1.465	2.449	4.2	17.8	3 12	11 18.27	+19 20.3	1.613	2.582	6.2	19.3
3 22	11 11.38	-4 59.4	1.478	2.456	5.7	17.9	3 22	11 9.10	+19 39.3	1.637	2.577	9.3	19.4
4 1	11 5.36	-3 8.6	1.518	2.464	9.6	18.1	4 1	11 1.29	+19 36.9	1.685	2.571	12.8	19.6
4 11	11 1.39	-1 26.8	1.582	2.471	13.4	18.3	4 11	10 55.67	+19 13.1	1.755	2.566	15.9	19.8
<b>358085</b>	2006 <i>JG</i> <sub>26</sub>		3 9.6 259°70'	1.4/8.6	18		<b>199203</b>	2006 <i>AZ</i> <sub>17</sub>		3 9.7 48°99'	4.6/6.7	18	
2 1	11 48.98	+6 11.0	1.656	2.462	16.1	20.7	2 1	11 49.25	+11 19.9	1.168	2.007	19.4	19.4
2 11	11 44.69	+6 28.6	1.562	2.450	12.6	20.5	2 11	11 45.34	+12 7.7	1.119	2.026	14.8	19.2
2 21	11 37.63	+6 57.9	1.490	2.439	8.3	20.2	2 21	11 38.11	+13 4.5	1.089	2.045	9.8	19.0
3 2	11 28.39	+7 34.4	1.443	2.427	3.7	19.9	3 2	11 28.51	+14 0.2	1.083	2.064	5.4	18.8
3 12	11 17.98	+8 11.3	1.423	2.414	2.3	19.7	3 12	11 18.07	+14 44.1	1.101	2.084	5.6	18.9
3 22	11 7.68	+8 41.9	1.432	2.402	7.0	20.0	3 22	11 8.39	+15 8.3	1.144	2.104	9.9	19.1
4 1	10 58.74	+9 0.6	1.466	2.389	11.7	20.2	4 1	11 0.85	+15 9.3	1.210	2.125	14.4	19.5
4 11	10 52.16	+9 4.0	1.523	2.376	15.9	20.5	4 11	10 56.28	+14 47.6	1.295	2.146	18.3	19.8
<b>402950</b>	2007 <i>TV</i> <sub>366</sub>		3 9.6 174°18'	0.6/10.3	18		<b>104794</b>	2000 <i>HP</i> <sub>38</sub>		3 9.7 28°45'	3.3/13.1	18	
2 1	11 48.42	+0 0.8	2.075	2.848	14.4	22.3	2 1	11 39.76	-8 24.7	1.854	2.616	16.3	18.9
2 11	11 43.53	+0 19.5	1.985	2.852	11.4	22.1	2 11	11 37.08	-8 6.9	1.772	2.623	13.3	18.7
2 21	11 36.45	+0 52.5	1.917	2.855	7.7	21.8	2 21	11 32.29	-7 26.5	1.710	2.631	9.7	18.5
3 2	11 27.72	+1 36.7	1.876	2.857	3.6	21.6	3 2	11 25.92	-6 25.3	1.672	2.639	6.0	18.3
3 12	11 18.22	+2 27.1	1.865	2.858	1.0	21.4	3 12	11 18.84	-5 8.2	1.661	2.648	3.3	18.1
3 22	11 8.90	+3 17.9	1.883	2.858	5.1	21.7	3 22	11 11.97	-3 42.5	1.678	2.657	5.1	18.3
4 1	11 0.70	+4 3.3	1.930	2.858	9.1	21.9	4 1	11 6.24	-2 16.7	1.722	2.666	8.8	18.5
4 11	10 54.38	+4 38.9	2.002	2.857	12.5	22.1	4 11	11 2.33	-0 58.6	1.791	2.676	12.3	18.7
<b>467684</b>	2008 <i>UH</i> <sub>290</sub>		3 9.7 144°55'	5.3/3.3	17		<b>160185</b>	2001 <i>XF</i> <sub>117</sub>		3 9.7 115°63'	1.7/10.9	18	
2 1	11 45.29	+19 7.2	2.339	3.155	11.7	21.6	2 1	11 50.00	-1 12.1	1.621	2.404	17.4	19.8
2 11	11 40.88	+20 16.8	2.271	3.161	9.1	21.4	2 11	11 45.27	-1 16.8	1.544	2.414	13.8	19.5
2 21	11 34.55	+21 26.8	2.228	3.166	6.7	21.2	2 21	11 37.86	-1 4.6	1.487	2.424	9.6	19.3
3 2	11 26.83	+22 30.3	2.212	3.172	5.4	21.2	3 2	11 28.43	-0 37.7	1.456	2.434	4.9	19.1
3 12	11 18.52	+23 20.6	2.226	3.177	6.2	21.2	3 12	11 18.09	-0 1.1	1.451	2.443	1.8	18.9
3 22	11 10.46	+23 53.1	2.267	3.182	8.4	21.4	3 22	11 8.08	+0 38.9	1.474	2.452	5.8	19.2
4 1	11 3.48	+24 5.7	2.334	3.187	11.0	21.5	4 1	11 0.59	+1 15.6	1.524	2.461	10.4	19.4
4 11	10 58.18	+23 58.6	2.423	3.191	13.3	21.7	4 11	10 53.46	+1 43.4	1.598	2.469	14.3	19.7
<b>30587</b>	2001 <i>PC</i> <sub>33</sub>		3 9.7 137°71'	1.2/8.6	18		<b>210171</b>	2006 <i>TB</i> <sub>40</sub>		3 9.7 223°12'	3.3/5.9	18	
2 1	11 51.07	+6 47.7	2.159	2.947	13.5	18.5	2 1	11 44.45	+13 38.9	2.502	3.310	11.2	20.6
2 11	11 45.34	+7 0.7	2.080	2.959	10.4	18.3	2 11	11 40.14	+14 18.8	2.417	3.307	8.6	20.4
2 21	11 37.50	+7 21.4	2.025	2.970	6.8	18.1	2 21	11 34.04	+15 2.3	2.357	3.304	5.8	20.2
3 2	11 28.13	+7 45.9	1.998	2.981	3.0	17.9	3 2	11 26.64	+15 44.3	2.324	3.300	3.6	20.1
3 12	11 18.12	+8 9.5	2.000	2.991	1.8	17.8	3 12	11 18.64	+16 19.5	2.322	3.297	4.0	20.1
3 22	11 8.41	+8 27.7	2.033	3.000	5.5	18.1	3 22	11 10.81	+16 43.8	2.348	3.293	6.5	20.2
4 1	10 59.92	+8 37.1	2.094	3.009	9.2	18.3	4 1	11 3.91	+16 54.4	2.402	3.289	9.4	20.4
4 11	10 53.30	+8 35.8	2.180	3.018	12.3	18.5	4 11	10 58.52	+16 50.1	2.479	3.285	12.0	20.6
<b>174725</b>	2003 <i>UL</i> <sub>162</sub>		3 9.7 211°89'	1.6/8.1	18		<b>269820</b>	1999 <i>WQ</i> <sub>18</sub>		3 9.7 136°28'	2.8/6.8	18	
2 1	11 46.64	+5 25.0	1.977	2.775	14.2	21.0	2 1	11 45.73	+10 24.0	2.174	2.981	12.8	20.9
2 11	11 42.36	+6 11.9	1.883	2.768	11.0	20.8	2 11	11 41.31	+11 7.3	2.097	2.987	9.8	20.7
2 21	11 35.80	+7 11.3	1.814	2.762	7.2	20.5	2 21	11 34.90	+11 57.1	2.044	2.993	6.4	20.5
3 2	11 27.49	+8 18.2	1.771	2.754	3.2	20.3	3 2	11 27.03	+12 47.9	2.018	2.999	3.4	20.3
3 12	11 18.30	+9 25.6	1.757	2.746	2.4	20.2	3 12	11 18.53	+13 33.6	2.022	3.004	3.5	20.4
3 22	11 9.22	+10 26.1	1.772	2.738	6.4	20.4	3 22	11 10.28	+14 8.9	2.054	3.010	6.6	20.6
4 1	11 1.27	+11 14.0	1.815	2.728	10.4	20.6	4 1	11 3.12	+14 30.3	2.114	3.015	9.8	20.8
4 11	10 55.24	+11 45.4	1.881	2.718	14.0	20.8	4 11	10 57.71	+14 36.1	2.197	3.019	12.8	21.0
<b>283575</b>	2001 <i>XB</i> <sub>32</sub>		3 9.7 133°44'	0.0/9.6	17		<b>419042</b>	2009 <i>RZ</i> <sub>17</sub>		3 9.7 335°54'	4.2/6.4	17	
2 1	11 42.89	+2 10.2	2.700	3.477	11.3	21.6	2 1	11 48.98	+13 46.4	1.754	2.572	14.8	20.5
2 11	11 38.70	+2 36.6	2.615	3.487	8.8	21.4	2 11	11 44.39	+14 17.5	1.675	2.570	11.5	20.3
2 21	11 32.96	+3 12.8	2.555	3.496	5.8	21.2	2 21	11 37.23	+14 53.0	1.619	2.568	7.8	20.0
3 2	11 26.10	+3 55.8	2.523	3.506	2.6	21.0	3 2	11 28.15	+15 26.2	1.589	2.567	4.6	19.9
3 12	11 18.75	+4 41.4	2.522	3.515	0.8	20.9	3 12	11 18.19	+15 49.8	1.587	2.565	4.9	19.9
3 22	11 11.58	+5 25.3	2.550	3.523	4.1	21.1	3 22	11 8.53	+15 58.5	1.611	2.564	8.3	20.1
4 1	11 5.23	+6 3.6	2.608	3.531	7.2	21.4	4 1	11 0.29	+15 49.5	1.662	2.562	12.1	20.3
4 11	11 0.22	+6 33.1	2.692	3.539	9.9	21.5	4 11	10 54.31	+15 22.5	1.734	2.561	15.4	20.5
<b>160236</b>	2002 <i>JH</i> <sub>56</sub>		3 9.7 308°24'	5.2/5.0	17		<b>328319</b>	2008 <i>JK</i> <sub>7</sub>		3 9.7 256°04'	5.1/4.2	17	
2 1	11 45.30	+15 21.3	1.743	2.570	14.5	19.5	2 1	11 44.78	+14 46.1	1.974	2.795	13.3	21.3
2 11	11 41.80	+16 13.2	1.650	2.550	11.3	19.2	2 11	11 41.05	+16 5.0	1.885	2.781	10.3	21.1
2 21	11 35.69	+17 10.6	1.580	2.529	7.9	19.0	2 21	11 35.02	+17 30.8	1.820	2.767	7.2	20.8
3 2	11 27.53	+18 5.6	1.536	2.509	5.4	18.8	3 2	11 27.20	+18 55.2	1.782	2.753	5.2	20.7
3 12	11 18.29	+18 49.4	1.518	2.489	6.2	18.8	3 12	11 18.46	+20 9.3	1.772	2.738	6.1	20.7
3 22	11 9.12	+19 15.0	1.527	2.469	9.5	18.9	3 22	11 9.81	+21 5.8	1.790	2.723	9.1	20.9
4 1	11 1.23	+19 18.3	1.560	2.450	13.3	19.1	4 1	11 2.28	+21 39.9	1.833	2.708	12.5	21.0
4 11	10 55.54	+18 58.6	1.613	2.431	16.8	19.3	4 11	10 56.69	+21 50.3	1.898	2.692	15.5	21.2
<b>134243</b>	2005 <i>YN</i> <sub>275</sub>		3 9.7 24°04'	0.7/10.2	18		<b>196460</b>	2003 <i>HF</i> <sub>53</sub>		3 9.7 285°65'	4.5/6.1	18	
2 1	11 48.09	+2 28.1	1.728	2.523									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>284990</b>	2010 <i>JF</i> <sub>76</sub>		3 9.7 183°84	3°3/ 5.2 18			<b>258211</b>	2001 <i>SR</i> <sub>351</sub>		3 9.7 68°14	5°2/ 4.8 18		
2 1	11 42.50	+13 26.6	2.787	3.594	10.3	21.7	2 1	11 45.67	+13 53.7	1.661	2.489	15.1	20.2
2 11	11 38.46	+14 26.6	2.704	3.594	7.8	21.5	2 11	11 41.77	+15 13.5	1.606	2.506	11.5	20.0
2 21	11 32.85	+15 30.7	2.647	3.594	5.3	21.3	2 21	11 35.41	+16 38.7	1.574	2.524	7.9	19.9
3 2	11 26.10	+16 33.6	2.619	3.593	3.4	21.2	3 2	11 27.30	+17 59.8	1.568	2.542	5.3	19.7
3 12	11 18.82	+17 30.2	2.621	3.592	3.9	21.2	3 12	11 18.52	+19 7.6	1.590	2.560	6.1	19.8
3 22	11 11.69	+18 15.8	2.653	3.591	6.2	21.4	3 22	11 10.20	+19 55.0	1.638	2.578	9.3	20.0
4 1	11 5.34	+18 47.3	2.712	3.589	8.8	21.5	4 1	11 3.37	+20 18.6	1.711	2.595	12.7	20.3
4 11	11 0.32	+19 3.6	2.795	3.587	11.1	21.7	4 11	10 58.73	+20 18.8	1.804	2.613	15.7	20.5
<b>384181</b>	2009 <i>BH</i> <sub>70</sub>		3 9.7 86°54	1°4/11.0 17			<b>380591</b>	2004 <i>RP</i> <sub>312</sub>		3 9.7 217°73	2°4/ 7.3 17		
2 1	11 45.58	- 0 59.8	2.222	2.993	13.7	20.5	2 1	11 49.51	+10 38.6	2.341	3.136	12.3	21.4
2 11	11 41.17	- 1 4.6	2.136	3.000	10.8	20.3	2 11	11 44.22	+11 3.2	2.245	3.128	9.5	21.2
2 21	11 34.80	- 0 56.8	2.073	3.007	7.5	20.1	2 21	11 36.87	+11 33.1	2.173	3.120	6.3	20.9
3 2	11 27.00	- 0 38.5	2.037	3.014	3.8	19.9	3 2	11 27.97	+12 3.8	2.130	3.111	3.2	20.7
3 12	11 18.55	- 0 13.2	2.029	3.020	1.5	19.7	3 12	11 18.31	+12 30.3	2.117	3.101	3.0	20.7
3 22	11 10.31	+ 0 15.1	2.050	3.027	4.5	20.0	3 22	11 8.78	+12 48.1	2.133	3.091	6.2	20.9
4 1	11 3.08	+ 0 41.7	2.100	3.034	8.1	20.2	4 1	11 0.27	+12 54.1	2.178	3.080	9.5	21.1
4 11	10 57.54	+ 1 2.6	2.175	3.041	11.3	20.4	4 11	10 53.49	+12 46.8	2.248	3.069	12.6	21.2
<b>495881</b>	2004 <i>RT</i> <sub>217</sub>		3 9.7 203°46	4°6/15.2 17			<b>408450</b>	2013 <i>HG</i> <sub>26</sub>		3 9.7 339°54	3°0/12.2 18		
2 1	11 44.99	-13 53.2	2.743	3.435	13.1	22.6	2 1	11 41.28	- 6 23.9	1.411	2.200	19.3	20.9
2 11	11 40.53	-14 2.3	2.632	3.429	11.1	22.5	2 11	11 39.07	- 6 6.5	1.326	2.196	15.7	20.7
2 21	11 34.33	-13 54.2	2.542	3.422	8.8	22.3	2 21	11 34.09	- 5 21.8	1.259	2.192	11.3	20.4
3 2	11 26.81	-13 28.1	2.478	3.415	6.4	22.1	3 2	11 26.91	- 4 11.3	1.215	2.189	6.4	20.1
3 12	11 18.61	-12 45.7	2.442	3.407	4.7	22.0	3 12	11 18.62	- 2 41.5	1.196	2.186	3.0	19.9
3 22	11 10.44	-11 50.1	2.436	3.399	5.1	22.0	3 22	11 10.48	- 1 2.4	1.202	2.183	6.3	20.1
4 1	11 3.04	-10 46.4	2.459	3.390	7.2	22.1	4 1	11 3.79	+ 0 34.3	1.234	2.181	11.2	20.3
4 11	10 57.03	- 9 40.5	2.509	3.380	9.8	22.3	4 11	10 59.53	+ 1 58.1	1.288	2.179	15.8	20.6
<b>291711</b>	2006 <i>JY</i> <sub>16</sub>		3 9.7 259°57	4°0/ 6.2 16			<b>313577</b>	2003 <i>EG</i> <sub>33</sub>		3 9.7 281°32	0°6/ 8.9 17		
2 1	11 47.52	+11 11.6	1.704	2.522	15.2	21.7	2 1	11 41.15	+ 0 49.3	1.870	2.668	14.9	20.3
2 11	11 43.56	+12 6.8	1.611	2.507	11.8	21.4	2 11	11 38.37	+ 1 51.0	1.767	2.650	11.7	20.1
2 21	11 36.91	+13 11.9	1.541	2.492	7.9	21.2	2 21	11 33.34	+ 3 12.4	1.686	2.633	7.8	19.8
3 2	11 28.12	+14 19.5	1.496	2.476	4.5	20.9	3 2	11 26.53	+ 4 48.7	1.632	2.616	3.4	19.5
3 12	11 18.19	+15 20.5	1.479	2.459	4.9	20.9	3 12	11 18.74	+ 6 32.0	1.606	2.598	1.6	19.3
3 22	11 8.34	+16 6.9	1.490	2.443	8.8	21.1	3 22	11 10.97	+ 8 13.1	1.609	2.581	6.2	19.6
4 1	11 0.97	+16 32.9	1.525	2.426	12.9	21.3	4 1	11 4.23	+ 9 42.9	1.639	2.563	10.6	19.8
4 11	10 53.53	+16 36.6	1.582	2.409	16.7	21.5	4 11	10 59.37	+10 54.8	1.692	2.546	14.5	20.0
<b>88166</b>	2000 <i>XN</i> <sub>24</sub>		3 9.7 126°79	0°3/ 9.3 18			<b>331803</b>	2003 <i>RS</i> <sub>15</sub>		3 9.7 237°55	3°6/13.3 17		
2 1	11 48.10	+ 3 45.9	2.294	3.075	13.0	20.0	2 1	11 45.13	- 8 10.0	2.315	3.051	14.1	20.8
2 11	11 42.95	+ 4 0.8	2.215	3.089	10.1	19.8	2 11	11 40.97	- 8 22.7	2.207	3.041	11.7	20.6
2 21	11 35.89	+ 4 25.2	2.160	3.102	6.6	19.6	2 21	11 34.82	- 8 19.0	2.120	3.030	8.8	20.4
3 2	11 27.46	+ 4 55.9	2.133	3.115	2.9	19.4	3 2	11 27.11	- 7 58.9	2.059	3.019	5.7	20.2
3 12	11 18.44	+ 5 28.4	2.136	3.128	1.1	19.3	3 12	11 18.58	- 7 24.5	2.027	3.008	3.6	20.1
3 22	11 9.70	+ 5 58.2	2.168	3.140	4.8	19.6	3 22	11 10.06	- 6 39.7	2.023	2.996	5.0	20.1
4 1	11 2.03	+ 6 21.4	2.230	3.152	8.3	19.8	4 1	11 2.42	- 5 50.0	2.047	2.984	8.1	20.3
4 11	10 56.05	+ 6 35.1	2.317	3.163	11.4	20.0	4 11	10 56.40	- 5 1.1	2.098	2.971	11.3	20.5
<b>259077</b>	2002 <i>VC</i> <sub>23</sub>		3 9.7 80°13	1°3/ 8.6 18			<b>146060</b>	2000 <i>EH</i> <sub>196</sub>		3 9.7 210°58	0°9/10.5 18		
2 1	11 47.96	+ 5 9.2	1.689	2.493	15.9	21.1	2 1	11 46.45	- 0 13.9	1.885	2.668	15.3	20.6
2 11	11 43.43	+ 5 40.1	1.625	2.512	12.2	20.9	2 11	11 42.32	- 0 4.4	1.793	2.665	12.1	20.3
2 21	11 36.46	+ 6 23.1	1.582	2.531	8.0	20.7	2 21	11 35.85	+ 0 20.3	1.724	2.663	8.3	20.1
3 2	11 27.75	+ 7 12.8	1.566	2.550	3.4	20.4	3 2	11 27.60	+ 0 57.4	1.680	2.660	4.0	19.8
3 12	11 18.36	+ 8 1.9	1.578	2.569	2.1	20.4	3 12	11 18.45	+ 1 42.2	1.664	2.656	1.2	19.6
3 22	11 9.41	+ 8 43.8	1.617	2.587	6.4	20.7	3 22	11 9.45	+ 2 28.6	1.676	2.653	5.4	19.9
4 1	11 1.93	+ 9 13.5	1.683	2.605	10.5	21.0	4 1	11 1.62	+ 3 10.5	1.716	2.649	9.6	20.1
4 11	10 56.65	+ 9 28.1	1.772	2.623	14.1	21.2	4 11	10 55.78	+ 3 42.7	1.780	2.645	13.4	20.3
<b>159559</b>	2001 <i>TF</i> <sub>70</sub>		3 9.7 122°49	1°3/ 8.5 18			<b>365140</b>	2009 <i>DF</i> <sub>55</sub>		3 9.7 271°92	1°4/ 8.5 17		
2 1	11 49.16	+ 4 8.4	1.729	2.527	15.9	21.2	2 1	11 45.54	+ 4 30.5	1.675	2.483	15.9	21.4
2 11	11 44.37	+ 4 54.6	1.660	2.544	12.2	21.0	2 11	11 42.09	+ 5 9.2	1.575	2.465	12.4	21.1
2 21	11 37.10	+ 5 54.7	1.612	2.560	8.0	20.7	2 21	11 36.00	+ 6 3.6	1.497	2.447	8.2	20.8
3 2	11 28.06	+ 7 2.8	1.591	2.575	3.4	20.5	3 2	11 27.78	+ 7 8.7	1.444	2.429	3.6	20.5
3 12	11 18.26	+ 8 10.9	1.599	2.590	2.1	20.4	3 12	11 18.37	+ 8 16.9	1.419	2.410	2.3	20.3
3 22	11 8.86	+ 9 11.3	1.635	2.604	6.5	20.7	3 22	11 8.95	+ 9 19.6	1.421	2.391	7.1	20.6
4 1	11 0.91	+ 9 58.2	1.698	2.617	10.7	21.0	4 1	11 0.77	+10 9.3	1.449	2.372	11.9	20.8
4 11	10 55.16	+10 27.9	1.785	2.630	14.3	21.3	4 11	10 54.81	+10 40.9	1.500	2.353	16.1	21.0
<b>85078</b>	1509 <i>T</i> <sub>2</sub>		3 9.7 185°08	0°7/10.2 18			<b>248153</b>	2004 <i>TR</i> <sub>235</sub>		3 9.7 268°75	2°4/ 7.8 17		
2 1	11 50.72	+ 0 42.7	1.682	2.467	16.8	20.5	2 1	11 47.58	+ 7 1.6	1.584	2.398	16.4	21.3
2 11	11 45.90	+ 0 51.6	1.594	2.468	13.3	20.2	2 11	11 43.85	+ 7 39.4	1.488	2.381	12.8	21.0
2 21	11 38.36	+ 1 16.3	1.527	2.468	9.0	20.0	2 21	11 37.27	+ 8 30.9	1.412	2.364	8.5	20.7
3 2	11 28.72	+ 1 53.8	1.486	2.467	4.2	19.7	3 2	11 28.37	+ 9 30.3	1.362	2.346	3.9	20.4
3 12	11 18.03	+ 2 38.6	1.473	2.466	1.2	19.5	3 12	11 18.19	+10 29.2	1.339	2.327	3.3	20.3
3 22	11 7.55	+ 3 23.7	1.488	2.464	6.0	19.8	3 22	11 8.01	+11 18.9	1.342	2.309	7.9	20.5
4 1	10 58.48	+ 4 2.7	1.530	2.461	10.7	20.1	4 1	10 59.19	+11 52.7	1.371	2.290	12.8	20.7
4 11	10 51.76	+ 4 30.2	1.595	2.457	14.8	20.3	4 11	10 52.79	+12 6.5	1.422	2.271	17.0	20.9
<b>369574</b>	2011 <i>BL</i> <sub>81</sub>		3 9.7 117°32	1°9/11.5 18			<b>156814</b>	2003 <i>BC</i> <sub>52</sub>		3 9.7 267°89	2°2/11.4 17	</	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>144810</b>	2004 HE <sub>74</sub>		3 9.7 136°56	2°2/ 7.2 18			<b>330031</b>	2005 UE <sub>191</sub>		3 9.7 64°80	8°0/ 2.9 18		
2 1	11 44.27	+ 9 55.2	2.474	3.276	11.5	20.2	2 1	11 51.14	+24 5.6	1.760	2.581	14.7	20.2
2 11	11 39.98	+10 27.2	2.391	3.279	8.8	20.0	2 11	11 46.06	+25 7.9	1.701	2.588	11.8	20.0
2 21	11 33.94	+11 4.9	2.334	3.282	5.8	19.8	2 21	11 38.30	+26 5.5	1.665	2.595	9.3	19.9
3 2	11 26.64	+11 43.8	2.304	3.285	2.9	19.6	3 2	11 28.63	+26 48.9	1.655	2.602	8.0	19.8
3 12	11 18.77	+12 19.1	2.304	3.288	2.8	19.6	3 12	11 18.23	+27 10.3	1.670	2.610	8.9	19.9
3 22	11 11.09	+12 46.6	2.333	3.291	5.7	19.8	3 22	11 8.34	+27 5.4	1.712	2.617	11.3	20.1
4 1	11 4.34	+13 2.9	2.390	3.294	8.7	20.0	4 1	11 0.09	+26 34.1	1.777	2.624	14.1	20.2
4 11	10 59.09	+13 6.5	2.472	3.296	11.4	20.2	4 11	10 54.25	+25 39.7	1.862	2.632	16.7	20.4
<b>500642</b>	2012 VD <sub>4</sub>		3 9.7 109°95	5°1/ 3.1 17			<b>345583</b>	2006 SS <sub>38</sub>		3 9.7 98°89	1°6/ 11.6 17		
2 1	11 43.89	+19 17.8	2.508	3.324	11.0	21.7	2 1	11 42.81	- 3 14.5	2.467	3.228	12.7	21.6
2 11	11 39.68	+20 29.5	2.446	3.336	8.6	21.5	2 11	11 38.85	- 3 3.8	2.382	3.238	10.1	21.4
2 21	11 33.71	+21 41.1	2.410	3.348	6.3	21.4	2 21	11 33.20	- 2 39.7	2.320	3.248	7.1	21.2
3 2	11 26.51	+22 46.1	2.402	3.360	5.1	21.4	3 2	11 26.32	- 2 4.2	2.284	3.259	3.8	21.0
3 12	11 18.81	+23 38.5	2.423	3.371	5.9	21.4	3 12	11 18.91	- 1 20.8	2.278	3.269	1.6	20.9
3 22	11 11.37	+24 14.1	2.471	3.383	8.0	21.6	3 22	11 11.67	- 0 34.1	2.302	3.279	4.1	21.1
4 1	11 4.91	+24 30.7	2.546	3.394	10.3	21.7	4 1	11 5.32	+ 0 11.1	2.354	3.289	7.3	21.3
4 11	10 59.99	+24 28.7	2.643	3.405	12.4	21.9	4 11	11 0.43	+ 0 50.5	2.432	3.298	10.2	21.5
<b>464948</b>	2005 VE <sub>37</sub>		3 9.7 127°41	5°6/ 4.6 18			<b>424413</b>	2008 AJ <sub>60</sub>		3 9.7 98°24	2°5/ 6.6 17		
2 1	11 50.59	+18 47.2	1.971	2.786	13.6	21.3	2 1	11 41.26	+ 9 10.4	2.411	3.219	11.6	21.2
2 11	11 45.30	+19 36.3	1.903	2.793	10.6	21.1	2 11	11 37.75	+10 8.8	2.331	3.223	8.9	21.0
2 21	11 37.65	+20 25.3	1.859	2.800	7.7	20.9	2 21	11 32.52	+11 14.8	2.276	3.227	5.8	20.8
3 2	11 28.31	+21 6.8	1.842	2.807	5.7	20.8	3 2	11 26.04	+12 23.0	2.249	3.230	3.0	20.6
3 12	11 18.27	+21 33.7	1.853	2.813	6.4	20.9	3 12	11 18.99	+13 27.4	2.252	3.234	3.2	20.6
3 22	11 8.64	+21 41.5	1.892	2.820	9.0	21.0	3 22	11 12.12	+14 22.4	2.284	3.238	6.0	20.8
4 1	11 0.39	+21 28.9	1.956	2.826	12.0	21.2	4 1	11 6.15	+15 4.0	2.343	3.242	9.1	21.0
4 11	10 54.25	+20 56.8	2.042	2.832	14.7	21.4	4 11	11 1.64	+15 30.0	2.426	3.246	11.8	21.2
<b>158229</b>	2001 SG <sub>239</sub>		3 9.7 129°48	4°2/ 6.2 18			<b>108943</b>	2001 PO <sub>26</sub>		3 9.7 187°58	1°0/ 8.4 18		
2 1	11 51.66	+12 33.7	1.709	2.522	15.4	20.5	2 1	11 43.58	+ 5 40.2	2.843	3.628	10.6	20.9
2 11	11 46.38	+13 28.7	1.643	2.536	11.8	20.3	2 11	11 39.26	+ 6 12.8	2.749	3.627	8.2	20.8
2 21	11 38.49	+14 29.9	1.601	2.549	7.9	20.1	2 21	11 33.40	+ 6 53.0	2.681	3.626	5.3	20.6
3 2	11 28.71	+15 29.4	1.584	2.561	4.7	19.9	3 2	11 26.40	+ 7 37.6	2.641	3.625	2.3	20.4
3 12	11 18.16	+16 18.6	1.596	2.573	5.1	20.0	3 12	11 18.88	+ 8 22.3	2.632	3.623	1.5	20.3
3 22	11 8.05	+16 51.2	1.636	2.584	8.5	20.2	3 22	11 11.48	+ 9 3.0	2.654	3.620	4.5	20.5
4 1	10 59.52	+17 3.8	1.701	2.595	12.2	20.5	4 1	11 4.83	+ 9 36.0	2.705	3.617	7.5	20.7
4 11	10 53.33	+16 56.2	1.788	2.605	15.5	20.7	4 11	10 59.47	+ 9 59.0	2.781	3.614	10.1	20.9
<b>340799</b>	2006 TL <sub>66</sub>		3 9.7 70°36	4°1/ 5.7 18			<b>411359</b>	2010 UK <sub>87</sub>		3 9.7 76°20	3°2/ 6.9 18		
2 1	11 48.21	+16 23.8	2.278	3.087	12.2	20.3	2 1	11 47.22	+ 9 22.6	1.652	2.469	15.7	21.7
2 11	11 43.12	+16 52.3	2.205	3.094	9.4	20.1	2 11	11 42.97	+10 14.8	1.591	2.486	11.9	21.5
2 21	11 36.04	+17 21.6	2.157	3.101	6.5	19.9	2 21	11 36.23	+11 16.2	1.552	2.504	7.8	21.3
3 2	11 27.56	+17 46.4	2.136	3.108	4.3	19.8	3 2	11 27.72	+12 19.3	1.539	2.521	4.0	21.1
3 12	11 18.51	+18 1.4	2.145	3.115	4.7	19.8	3 12	11 18.50	+13 15.8	1.554	2.538	4.0	21.1
3 22	11 9.77	+18 3.1	2.182	3.123	7.2	20.0	3 22	11 9.75	+13 58.7	1.596	2.555	7.7	21.4
4 1	11 2.19	+17 49.8	2.246	3.130	10.1	20.2	4 1	11 2.48	+14 23.7	1.664	2.572	11.6	21.7
4 11	10 56.37	+17 21.7	2.334	3.137	12.7	20.4	4 11	10 57.45	+14 29.4	1.754	2.589	14.9	21.9
<b>284354</b>	2006 SK <sub>60</sub>		3 9.7 155°52	3°1/ 5.5 18			<b>236692</b>	2006 SS <sub>291</sub>		3 9.7 129°37	6°0/ 29.7 17		
2 1	11 44.72	+14 41.7	2.985	3.786	9.8	21.5	2 1	11 42.89	+22 50.5	2.674	3.490	10.4	20.2
2 11	11 40.01	+15 24.6	2.908	3.794	7.5	21.4	2 11	11 38.91	+24 27.3	2.615	3.500	8.3	20.1
2 21	11 33.80	+16 9.6	2.856	3.801	5.1	21.2	2 21	11 33.23	+26 2.3	2.583	3.510	6.6	20.0
3 2	11 26.53	+16 52.3	2.834	3.807	3.3	21.1	3 2	11 26.34	+27 28.3	2.580	3.520	6.0	20.0
3 12	11 18.82	+17 28.3	2.842	3.813	3.7	21.1	3 12	11 18.91	+28 38.9	2.606	3.529	6.9	20.0
3 22	11 11.29	+17 54.0	2.881	3.819	5.8	21.3	3 22	11 11.69	+29 29.9	2.659	3.538	8.8	20.2
4 1	11 4.57	+18 7.4	2.947	3.824	8.2	21.4	4 1	11 5.37	+29 59.4	2.737	3.547	10.8	20.3
4 11	10 59.14	+18 7.7	3.038	3.828	10.4	21.6	4 11	11 0.53	+30 7.8	2.836	3.555	12.6	20.5
<b>470458</b>	2007 YV <sub>68</sub>		3 9.7 352°22	1°7/ 11.2 16			<b>53396</b>	1999 JL <sub>104</sub>		3 9.7 51°10	3°1/ 6.1 18		
2 1	11 43.85	- 1 7.8	2.001	2.782	14.6	21.2	2 1	11 41.47	+ 9 53.2	2.143	2.958	12.6	18.8
2 11	11 40.17	- 1 20.2	1.910	2.778	11.7	21.0	2 11	11 38.14	+10 59.6	2.067	2.962	9.6	18.6
2 21	11 34.35	- 1 19.3	1.840	2.775	8.1	20.8	2 21	11 32.89	+12 14.2	2.015	2.966	6.3	18.4
3 2	11 26.92	- 1 6.6	1.796	2.773	4.3	20.6	3 2	11 26.23	+13 30.7	1.990	2.970	3.5	18.2
3 12	11 18.69	- 0 45.4	1.780	2.771	1.7	20.4	3 12	11 18.94	+14 41.9	1.995	2.975	3.9	18.2
3 22	11 10.61	- 0 20.1	1.792	2.770	4.9	20.6	3 22	11 11.85	+15 41.3	2.028	2.979	6.9	18.4
4 1	11 3.59	+ 0 4.2	1.831	2.769	8.8	20.8	4 1	11 5.79	+16 24.5	2.087	2.984	10.1	18.6
4 11	10 58.38	+ 0 23.0	1.894	2.768	12.3	21.0	4 11	11 1.37	+16 49.4	2.169	2.988	13.0	18.8
<b>72216</b>	2001 AG <sub>5</sub>		3 9.7 1°95	1°2/ 10.6 18			<b>506395</b>	2017 SQ		3 9.7 298°74	0°8/ 8.7 17		
2 1	11 41.24	- 1 20.8	1.276	2.092	19.5	18.7	2 1	11 40.31	+ 2 55.4	2.347	3.140	12.4	21.3
2 11	11 39.23	- 1 5.8	1.201	2.091	15.4	18.4	2 11	11 37.10	+ 3 46.6	2.257	3.139	9.5	21.1
2 21	11 34.29	- 0 27.5	1.144	2.090	10.6	18.2	2 21	11 32.15	+ 4 50.2	2.191	3.138	6.3	20.9
3 2	11 27.04	+ 0 30.5	1.109	2.090	5.2	17.9	3 2	11 25.90	+ 6 1.9	2.153	3.137	2.7	20.6
3 12	11 18.66	+ 1 40.5	1.099	2.091	1.5	17.6	3 12	11 19.04	+ 7 15.9	2.144	3.136	1.5	20.5
3 22	11 10.54	+ 2 52.6	1.113	2.093	6.7	17.9	3 22	11 12.31	+ 8 26.0	2.165	3.135	5.1	20.8
4 1	11 4.04	+ 3 56.6	1.152	2.096	12.0	18.2	4 1	11 6.45	+ 9 26.6	2.214	3.134	8.5	21.0
4 11	10 59.14	+ 4 44.6	1.211	2.100	16.7	18.5	4 11	11 2.06	+10 14.0	2.287	3.133	11.5	21.2
<b>106744</b>	2000 WP <sub>190</sub>		3 9.7 336°93	5°2/ 13.6 18			<b>272306</b>	2005 SM <sub>33</sub>		3 9.7 176°35	1°7/ 7.9 16		
2 1	11 40.42	- 8 52.2	1.309	2.096	20.6	19.0	2 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>162735</b>	2000 VL <sub>48</sub>		3 9.7 76°62	0°6/10.1	18		<b>318086</b>	2004 GQ <sub>48</sub>		3 9.7 7°95	1°0/ 9.1	18	
2 1	11 48.66	+ 0 14.7	1.506	2.302	17.9	20.5	2 1	11 45.74	+ 4 19.0	1.119	1.953	20.4	20.6
2 11	11 44.26	+ 0 34.3	1.444	2.324	14.0	20.3	2 11	11 43.13	+ 4 31.0	1.050	1.953	16.0	20.3
2 21	11 37.17	+ 1 11.8	1.403	2.346	9.4	20.1	2 21	11 37.08	+ 5 0.9	1.000	1.954	10.6	20.0
3 2	11 28.16	+ 2 2.6	1.386	2.368	4.3	19.9	3 2	11 28.35	+ 5 43.1	0.971	1.956	4.6	19.7
3 12	11 18.39	+ 2 59.6	1.396	2.389	1.1	19.7	3 12	11 18.33	+ 6 28.6	0.966	1.958	2.1	19.5
3 22	11 9.13	+ 3 54.9	1.434	2.410	6.1	20.1	3 22	11 8.70	+ 7 7.9	0.985	1.962	8.1	19.9
4 1	11 1.52	+ 4 41.2	1.497	2.431	10.7	20.4	4 1	11 1.05	+ 7 33.0	1.027	1.966	13.8	20.2
4 11	10 56.32	+ 5 13.8	1.583	2.452	14.6	20.7	4 11	10 56.44	+ 7 39.3	1.088	1.971	18.6	20.5
<b>379589</b>	2011 BT <sub>115</sub>		3 9.7 258°31	6°0/ 2.8	17		<b>491202</b>	2011 UQ <sub>117</sub>		3 9.7 98°62	5°3/ 5.2	18	
2 1	11 43.69	+16 28.9	1.958	2.784	13.2	21.0	2 1	11 50.85	+14 44.2	1.630	2.451	15.7	21.3
2 11	11 40.29	+18 8.8	1.874	2.771	10.3	20.7	2 11	11 45.80	+15 54.8	1.576	2.472	12.0	21.1
2 21	11 34.58	+19 55.0	1.814	2.758	7.5	20.5	2 21	11 38.11	+17 9.6	1.544	2.492	8.3	20.9
3 2	11 27.09	+21 38.3	1.781	2.745	6.0	20.4	3 2	11 28.55	+18 19.1	1.539	2.512	5.6	20.8
3 12	11 18.67	+23 8.7	1.776	2.731	7.1	20.5	3 12	11 18.31	+19 14.1	1.561	2.531	6.3	20.9
3 22	11 10.35	+24 18.2	1.799	2.718	10.0	20.6	3 22	11 8.63	+19 48.5	1.611	2.550	9.4	21.1
4 1	11 3.14	+25 2.0	1.846	2.704	13.2	20.8	4 1	11 0.61	+19 59.4	1.685	2.568	12.9	21.3
4 11	10 57.87	+25 19.3	1.914	2.690	16.1	20.9	4 11	10 54.99	+19 47.7	1.780	2.586	15.9	21.6
<b>488503</b>	2000 SO <sub>173</sub>		3 9.7 177°63	4°6/16.7	18		<b>43430</b>	2000 YA <sub>23</sub>		3 9.7 303°43	7°2/ 1.5	18	
2 1	11 41.94	-17 3.8	3.286	3.951	11.6	22.0	2 1	11 43.07	+20 7.1	1.847	2.680	13.6	18.8
2 11	11 37.89	-17 10.1	3.180	3.953	9.9	21.8	2 11	11 39.92	+21 48.6	1.774	2.672	10.8	18.6
2 21	11 32.45	-17 0.4	3.095	3.954	8.0	21.7	2 21	11 34.38	+23 32.5	1.725	2.664	8.3	18.4
3 2	11 25.99	-16 34.3	3.036	3.955	6.1	21.6	3 2	11 27.01	+25 8.5	1.702	2.656	7.3	18.3
3 12	11 19.03	-15 53.1	3.004	3.955	4.8	21.5	3 12	11 18.74	+26 26.6	1.706	2.648	8.5	18.4
3 22	11 12.16	-14 59.6	3.002	3.955	4.8	21.5	3 22	11 10.66	+27 19.5	1.735	2.640	11.2	18.5
4 1	11 5.92	-13 57.7	3.029	3.955	6.2	21.6	4 1	11 3.83	+27 43.8	1.788	2.633	14.1	18.7
4 11	11 0.81	-12 52.4	3.084	3.954	8.2	21.7	4 11	10 59.06	+27 40.3	1.860	2.626	16.8	18.8
<b>148500</b>	2001 MP <sub>15</sub>		3 9.7 170°62	1°3/11.2	18		<b>23862</b>	1998 RU <sub>59</sub>		3 9.7 263°16	0°4/ 9.9	18	
2 1	11 46.80	- 2 28.0	2.482	3.238	12.8	20.8	2 1	11 50.36	+ 2 47.3	1.830	2.618	15.5	18.7
2 11	11 41.96	- 2 13.5	2.388	3.243	10.2	20.6	2 11	11 45.62	+ 2 39.9	1.726	2.602	12.3	18.4
2 21	11 35.30	- 1 45.6	2.317	3.247	7.1	20.4	2 21	11 38.26	+ 2 43.9	1.644	2.586	8.4	18.1
3 2	11 27.29	- 1 6.5	2.274	3.250	3.7	20.2	3 2	11 28.80	+ 2 57.2	1.588	2.570	3.9	17.8
3 12	11 18.65	- 0 20.0	2.261	3.253	1.4	20.0	3 12	11 18.18	+ 3 15.5	1.560	2.553	1.1	17.6
3 22	11 10.15	+ 0 29.3	2.278	3.254	4.2	20.2	3 22	11 7.55	+ 3 33.8	1.561	2.536	5.9	17.9
4 1	11 2.56	+ 1 16.4	2.325	3.255	7.6	20.4	4 1	10 58.12	+ 3 47.1	1.589	2.519	10.5	18.1
4 11	10 56.51	+ 1 57.0	2.398	3.256	10.6	20.6	4 11	10 50.85	+ 3 51.4	1.641	2.502	14.5	18.3
<b>34794</b>	2001 SS <sub>25</sub>		3 9.7 109°54	0°5/ 9.1	18 R		<b>61999</b>	2000 RT <sub>35</sub>		3 9.7 196°06	3°4/ 13.6	18	
2 1	11 43.12	+ 3 22.3	2.434	3.220	12.2	19.0	2 1	11 42.64	-10 1.2	2.228	2.962	14.7	20.2
2 11	11 39.10	+ 3 53.8	2.353	3.231	9.4	18.8	2 11	11 39.08	- 9 39.2	2.128	2.961	12.1	20.0
2 21	11 33.37	+ 4 35.4	2.297	3.241	6.2	18.6	2 21	11 33.57	- 8 56.3	2.049	2.958	9.0	19.8
3 2	11 26.41	+ 5 23.5	2.269	3.252	2.6	18.4	3 2	11 26.59	- 7 53.5	1.995	2.956	5.7	19.6
3 12	11 18.92	+ 6 13.3	2.270	3.262	1.2	18.3	3 12	11 18.87	- 6 34.7	1.970	2.953	3.4	19.5
3 22	11 11.63	+ 6 59.9	2.300	3.271	4.7	18.6	3 22	11 11.26	- 5 6.0	1.974	2.950	4.8	19.5
4 1	11 5.26	+ 7 38.9	2.360	3.281	8.0	18.8	4 1	11 4.60	- 3 34.9	2.007	2.946	8.0	19.7
4 11	11 0.37	+ 8 7.3	2.444	3.291	10.8	19.0	4 11	10 59.55	- 2 8.7	2.066	2.942	11.3	19.9
<b>33702</b>	Spencergreen		3 9.7 320°97	4°0/12.5	18		<b>431562</b>	2007 UR <sub>42</sub>		3 9.7 186°01	3°7/14.2	17	
2 1	11 42.75	- 5 37.1	1.337	2.132	19.9	18.5	2 1	11 42.85	-10 33.3	2.599	3.319	13.1	21.5
2 11	11 40.55	- 5 58.3	1.245	2.117	16.3	18.2	2 11	11 38.94	-10 36.1	2.498	3.319	10.9	21.4
2 21	11 35.34	- 5 55.7	1.171	2.103	12.0	17.9	2 21	11 33.33	-10 22.2	2.419	3.318	8.3	21.2
3 2	11 27.62	- 5 28.9	1.118	2.090	7.3	17.6	3 2	11 26.44	- 9 51.9	2.365	3.317	5.6	21.0
3 12	11 18.50	- 4 41.2	1.089	2.077	4.0	17.3	3 12	11 18.93	- 9 7.5	2.340	3.316	3.8	20.9
3 22	11 9.37	- 3 39.8	1.085	2.065	6.9	17.5	3 22	11 11.51	- 8 12.9	2.344	3.315	4.6	21.0
4 1	11 1.71	- 2 34.6	1.105	2.054	11.9	17.7	4 1	11 4.89	- 7 13.4	2.377	3.313	7.1	21.1
4 11	10 56.70	- 1 35.9	1.146	2.043	16.7	17.9	4 11	10 59.68	- 6 14.4	2.437	3.311	9.9	21.3
<b>136506</b>	2005 KF <sub>1</sub>		3 9.7 197°88	0°5/ 9.1	17		<b>380013</b>	2013 PX <sub>28</sub>		3 9.7 237°50	0°3/ 9.9	17	
2 1	11 41.86	+ 2 49.5	2.705	3.487	11.2	21.5	2 1	11 45.02	+ 0 35.3	1.988	2.773	14.6	21.7
2 11	11 38.05	+ 3 30.4	2.609	3.484	8.7	21.3	2 11	11 41.18	+ 1 2.0	1.889	2.764	11.5	21.5
2 21	11 32.67	+ 4 21.8	2.538	3.481	5.7	21.1	2 21	11 35.13	+ 1 43.9	1.813	2.754	7.8	21.2
3 2	11 26.12	+ 5 20.3	2.495	3.478	2.5	20.9	3 2	11 27.34	+ 2 37.9	1.763	2.745	3.6	21.0
3 12	11 19.00	+ 6 21.1	2.483	3.474	1.1	20.7	3 12	11 18.67	+ 3 38.4	1.742	2.735	1.0	20.7
3 22	11 11.99	+ 7 19.3	2.500	3.471	4.4	21.0	3 22	11 10.07	+ 4 38.8	1.749	2.724	5.4	21.0
4 1	11 5.74	+ 8 10.4	2.547	3.466	7.6	21.2	4 1	11 2.52	+ 5 32.6	1.784	2.713	9.6	21.3
4 11	11 0.80	+ 8 51.0	2.620	3.462	10.4	21.3	4 11	10 56.82	+ 6 14.6	1.843	2.702	13.3	21.5
<b>175994</b>	2000 QM <sub>155</sub>		3 9.7 158°55	2°8/13.6	18		<b>365194</b>	2009 FY <sub>38</sub>		3 9.7 336°78	2°2/ 7.9	18	
2 1	11 42.85	- 8 48.7	3.132	3.850	11.1	21.0	2 1	11 42.75	+ 5 34.2	1.340	2.170	17.9	20.5
2 11	11 38.57	- 8 47.7	3.034	3.857	9.1	20.9	2 11	11 40.38	+ 6 18.1	1.260	2.162	13.9	20.3
2 21	11 32.88	- 8 33.5	2.960	3.863	6.8	20.7	2 21	11 35.07	+ 7 19.1	1.200	2.155	9.1	20.0
3 2	11 26.17	- 8 7.0	2.913	3.869	4.4	20.5	3 2	11 27.44	+ 8 30.5	1.164	2.149	4.1	19.7
3 12	11 18.99	- 7 30.2	2.895	3.875	2.8	20.4	3 12	11 18.64	+ 9 42.4	1.154	2.143	3.2	19.6
3 22	11 11.93	- 6 46.4	2.908	3.880	3.8	20.5	3 22	11 10.03	+10 44.6	1.168	2.138	8.2	19.9
4 1	11 5.54	- 5 59.5	2.951	3.884	6.0	20.7	4 1	11 3.00	+11 28.7	1.206	2.134	13.3	20.1
4 11	11 0.32	- 5 13.6	3.021	3.888	8.4	20.8	4 11	10 58.55	+11 50.4	1.265	2.130	17.7	20.4
<b>380101</b>	2013 TP <sub>11</sub>		3 9.7 145°45	2°0/ 7.6	18 R		<b>64560</b>	2001 WB <sub>30</sub>		3 9.7 291°77	4°0/ 6.6	18	
2 1	11 44.21	+ 6 58.7	2.152	2.954	13.0	20.8							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>192366</b>	1995 <i>XP</i> <sub>3</sub>		3 9.7 175°04	5°1/ 2.9 17			<b>182513</b>	2001 <i>SM</i> <sub>269</sub>		3 9.7 276°54	1°0/10.6 17		
2 1	11 46.37	+19 39.6	2.652	3.460	10.7	20.8	2 1	11 43.82	- 1 14.4	1.794	2.582	15.8	20.7
2 11	11 41.59	+20 52.3	2.578	3.463	8.4	20.6	2 11	11 40.43	- 0 52.4	1.704	2.579	12.5	20.5
2 21	11 35.03	+22 5.3	2.530	3.465	6.2	20.5	2 21	11 34.71	- 0 12.5	1.636	2.576	8.6	20.2
3 2	11 27.19	+23 12.2	2.511	3.466	5.1	20.4	3 2	11 27.18	+ 0 42.0	1.593	2.573	4.2	19.9
3 12	11 18.76	+24 6.8	2.521	3.467	5.9	20.5	3 12	11 18.76	+ 1 45.6	1.577	2.570	1.2	19.7
3 22	11 10.51	+24 44.9	2.560	3.468	7.9	20.6	3 22	11 10.49	+ 2 50.8	1.589	2.567	5.5	20.0
4 1	11 3.21	+25 4.1	2.626	3.467	10.2	20.8	4 1	11 3.40	+ 3 50.3	1.628	2.564	9.9	20.2
4 11	10 57.42	+25 4.5	2.714	3.466	12.4	20.9	4 11	10 58.31	+ 4 38.2	1.691	2.561	13.7	20.5
<b>55535</b>	2001 <i>WD</i> <sub>27</sub>		3 9.7 282°10	1°6/ 8.2 18			<b>297127</b>	2010 <i>RD</i> <sub>179</sub>		3 9.7 179°58	1°2/ 8.5 16		
2 1	11 43.64	+ 4 57.5	1.812	2.620	14.9	19.2	2 1	11 48.57	+ 5 26.5	2.153	2.942	13.5	22.2
2 11	11 40.23	+ 5 45.8	1.729	2.619	11.5	19.0	2 11	11 43.63	+ 5 58.5	2.065	2.944	10.4	22.0
2 21	11 34.52	+ 6 47.7	1.668	2.618	7.5	18.7	2 21	11 36.58	+ 6 40.7	2.000	2.945	6.8	21.8
3 2	11 27.07	+ 7 57.8	1.633	2.617	3.3	18.5	3 2	11 27.94	+ 7 28.8	1.963	2.946	3.0	21.5
3 12	11 18.78	+ 9 8.4	1.626	2.616	2.4	18.4	3 12	11 18.55	+ 8 17.1	1.955	2.945	1.9	21.4
3 22	11 10.68	+10 11.7	1.647	2.615	6.6	18.7	3 22	11 9.35	+ 9 0.0	1.977	2.945	5.7	21.7
4 1	11 3.78	+11 1.5	1.694	2.614	10.7	18.9	4 1	11 1.24	+ 9 32.8	2.028	2.943	9.4	21.9
4 11	10 58.86	+11 33.9	1.765	2.613	14.3	19.1	4 11	10 54.94	+ 9 52.5	2.103	2.941	12.7	22.1
<b>102916</b>	1999 <i>XG</i> <sub>24</sub>		3 9.7 235°77	9°9/20.5 17			<b>109235</b>	2001 <i>QH</i> <sub>94</sub>		3 9.7 214°34	0°5/10.1 17		
2 1	11 45.64	-26 45.5	2.176	2.795	17.9	19.9	2 1	11 47.50	+ 1 16.7	2.041	2.822	14.4	20.4
2 11	11 41.89	-27 25.4	2.062	2.782	16.2	19.7	2 11	11 43.01	+ 1 26.0	1.945	2.817	11.3	20.2
2 21	11 35.76	-27 38.5	1.964	2.768	14.2	19.5	2 21	11 36.29	+ 1 48.2	1.872	2.812	7.7	20.0
3 2	11 27.71	-27 20.1	1.886	2.753	12.1	19.3	3 2	11 27.87	+ 2 20.6	1.825	2.806	3.6	19.7
3 12	11 18.55	-26 28.1	1.830	2.737	10.4	19.2	3 12	11 18.59	+ 2 58.5	1.807	2.800	0.9	19.5
3 22	11 9.32	-25 4.5	1.800	2.721	9.9	19.1	3 22	11 9.42	+ 3 36.7	1.819	2.794	5.2	19.8
4 1	11 1.11	-23 15.5	1.796	2.704	10.9	19.1	4 1	11 1.34	+ 4 9.7	1.858	2.787	9.2	20.0
4 11	10 54.84	-21 11.3	1.817	2.686	13.0	19.2	4 11	10 55.13	+ 4 33.5	1.921	2.780	12.8	20.2
<b>266416</b>	2007 <i>FE</i> <sub>39</sub>		3 9.7 306°89	7°5/16.7 18			<b>505923</b>	2015 <i>EL</i> <sub>60</sub>		3 9.7 203°15	5°1/ 1.9 17		
2 1	11 40.65	-16 49.0	1.793	2.510	18.3	19.6	2 1	11 43.88	+22 2.4	3.002	3.811	9.5	21.7
2 11	11 38.33	-17 18.3	1.681	2.488	16.0	19.4	2 11	11 39.56	+23 14.9	2.924	3.806	7.6	21.6
2 21	11 33.57	-17 21.4	1.587	2.467	13.1	19.1	2 21	11 33.65	+24 26.6	2.872	3.801	5.9	21.5
3 2	11 26.78	-16 54.7	1.514	2.446	10.1	18.9	3 2	11 26.59	+25 31.6	2.849	3.795	5.1	21.4
3 12	11 18.82	-15 58.2	1.465	2.425	7.9	18.7	3 12	11 18.99	+26 24.5	2.855	3.788	5.9	21.4
3 22	11 10.75	-14 35.9	1.442	2.404	7.9	18.7	3 22	11 11.50	+27 1.7	2.890	3.782	7.7	21.5
4 1	11 3.74	-12 55.8	1.444	2.384	10.5	18.7	4 1	11 4.79	+27 20.9	2.950	3.774	9.7	21.7
4 11	10 58.77	-11 9.2	1.469	2.364	13.9	18.9	4 11	10 59.40	+27 22.2	3.033	3.766	11.6	21.8
<b>168197</b>	2006 <i>JV</i> <sub>10</sub>		3 9.7 88°21	1°6/ 8.5 18			<b>462934</b>	2011 <i>BP</i> <sub>62</sub>		3 9.7 86°69	8°3/28.4 18		
2 1	11 49.19	+ 5 51.2	1.537	2.347	17.0	20.5	2 1	11 43.52	+22 16.7	1.829	2.661	13.7	20.4
2 11	11 44.77	+ 6 18.0	1.468	2.359	13.1	20.3	2 11	11 40.26	+24 35.6	1.774	2.668	11.0	20.3
2 21	11 37.61	+ 6 57.4	1.421	2.370	8.6	20.0	2 21	11 34.59	+26 54.0	1.744	2.674	8.9	20.1
3 2	11 28.43	+ 7 43.6	1.398	2.382	3.7	19.8	3 2	11 27.12	+28 59.8	1.741	2.681	8.4	20.1
3 12	11 18.40	+ 8 29.0	1.403	2.393	2.4	19.7	3 12	11 18.83	+30 41.9	1.766	2.687	9.8	20.2
3 22	11 8.78	+ 9 6.5	1.434	2.404	7.0	20.0	3 22	11 10.82	+31 53.4	1.816	2.693	12.3	20.4
4 1	11 0.77	+ 9 30.5	1.492	2.415	11.5	20.3	4 1	11 4.14	+32 31.9	1.888	2.700	14.8	20.6
4 11	10 55.19	+ 9 38.3	1.571	2.426	15.4	20.6	4 11	10 59.56	+32 39.2	1.978	2.706	17.1	20.7
<b>495413</b>	2014 <i>RG</i> <sub>55</sub>		3 9.7 194°39	0°6/ 9.2 17			<b>45280</b>	2000 <i>AE</i> <sub>16</sub>		3 9.7 115°50	0°4/10.1 18		
2 1	11 48.67	+ 3 13.3	2.051	2.836	14.2	22.6	2 1	11 48.05	+ 0 34.2	1.876	2.659	15.4	20.1
2 11	11 43.87	+ 3 42.9	1.958	2.834	11.1	22.4	2 11	11 43.40	+ 0 57.3	1.801	2.675	12.0	19.9
2 21	11 36.83	+ 4 25.1	1.887	2.831	7.3	22.2	2 21	11 36.47	+ 1 35.3	1.749	2.690	8.1	19.7
3 2	11 28.08	+ 5 16.0	1.844	2.827	3.2	21.9	3 2	11 27.90	+ 2 24.3	1.723	2.704	3.7	19.5
3 12	11 18.48	+ 6 9.8	1.830	2.823	1.4	21.8	3 12	11 18.62	+ 3 18.5	1.726	2.718	1.0	19.3
3 22	11 9.02	+ 7 0.4	1.846	2.817	5.6	22.0	3 22	11 9.66	+ 4 11.4	1.757	2.732	5.3	19.6
4 1	11 0.68	+ 7 42.1	1.890	2.811	9.6	22.3	4 1	11 2.00	+ 4 57.1	1.816	2.745	9.4	19.9
4 11	10 54.23	+ 8 11.0	1.959	2.805	13.2	22.5	4 11	10 56.35	+ 5 31.0	1.899	2.758	13.0	20.2
<b>296472</b>	2009 <i>HA</i> <sub>94</sub>		3 9.7 281°19	3°5/ 6.7 17			<b>386182</b>	2007 <i>VH</i> <sub>66</sub>		3 9.7 171°52	2°0/12.2 17		
2 1	11 45.83	+ 9 34.6	1.660	2.480	15.5	21.0	2 1	11 41.90	- 5 40.5	2.634	3.381	12.3	21.9
2 11	11 42.41	+10 27.8	1.563	2.461	12.0	20.8	2 11	11 38.15	- 5 18.4	2.537	3.384	9.9	21.7
2 21	11 36.28	+11 33.0	1.489	2.441	8.0	20.5	2 21	11 32.78	- 4 41.3	2.464	3.386	7.1	21.5
3 2	11 27.98	+12 43.3	1.439	2.421	4.2	20.2	3 2	11 26.22	- 3 51.1	2.417	3.387	4.0	21.3
3 12	11 18.48	+13 49.6	1.417	2.400	4.5	20.2	3 12	11 19.10	- 2 51.3	2.400	3.388	2.0	21.2
3 22	11 8.98	+14 43.1	1.422	2.380	8.5	20.3	3 22	11 12.10	- 1 46.7	2.412	3.389	3.9	21.3
4 1	11 0.75	+15 17.4	1.452	2.360	13.0	20.5	4 1	11 5.88	- 0 42.7	2.454	3.390	7.0	21.5
4 11	10 54.79	+15 29.3	1.503	2.339	16.9	20.7	4 11	11 1.01	+ 0 15.8	2.523	3.390	9.8	21.7
<b>377900</b>	2006 <i>DQ</i> <sub>106</sub>		3 9.7 215°37	0°7/ 9.0 17			<b>227606</b>	2006 <i>AQ</i> <sub>70</sub>		3 9.7 5°45	1°3/ 8.5 17		
2 1	11 46.41	+ 4 52.5	2.072	2.866	13.7	21.6	2 1	11 42.63	+ 4 13.7	1.803	2.611	14.9	20.8
2 11	11 42.06	+ 5 6.9	1.983	2.865	10.7	21.3	2 11	11 39.46	+ 4 58.5	1.721	2.611	11.5	20.6
2 21	11 35.58	+ 5 31.4	1.917	2.863	7.1	21.1	2 21	11 34.02	+ 5 57.4	1.662	2.611	7.6	20.3
3 2	11 27.50	+ 6 2.3	1.878	2.862	3.1	20.9	3 2	11 26.87	+ 7 5.0	1.628	2.612	3.3	20.1
3 12	11 18.67	+ 6 34.5	1.868	2.860	1.4	20.7	3 12	11 18.92	+ 8 14.1	1.622	2.613	2.1	20.0
3 22	11 10.00	+ 7 3.2	1.887	2.859	5.5	21.0	3 22	11 11.17	+ 9 16.8	1.644	2.613	6.3	20.3
4 1	11 2.44	+ 7 23.8	1.934	2.857	9.3	21.2	4 1	11 4.60	+10 7.0	1.692	2.614	10.5	20.5
4 11	10 56.68	+ 7 33.3	2.004	2.855	12.7	21.4	4 11	10 59.99	+10 40.4	1.763	2.616	14.1	20.7
<b>43222</b>	2000 <i>AG</i> <sub>155</sub>		3 9.7 222°79	0°4/ 9.3 18			<b>81955</b>	2000 <i>PT</i> <sub>18</sub>		3 9.7 214°47	0°4/ 9.2 18		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>175502</b>	2006 <i>RU</i> <sub>95</sub>		3 9.7 130°66	0°4/10.2	17		<b>138615</b>	2000 <i>QY</i> <sub>197</sub>		3 9.7 213°40	0°1/ 9.9	18	
2 1	11 42.20	+ 0 13.5	2.554	3.329	12.0	21.1	2 1	11 45.51	+ 2 41.6	2.689	3.463	11.5	20.2
2 11	11 38.38	+ 0 39.1	2.466	3.335	9.4	20.9	2 11	11 40.90	+ 2 48.0	2.589	3.458	9.0	20.1
2 21	11 32.93	+ 1 16.3	2.402	3.340	6.3	20.7	2 21	11 34.61	+ 3 3.1	2.513	3.453	6.0	19.9
3 2	11 26.29	+ 2 2.4	2.365	3.346	2.9	20.5	3 2	11 27.06	+ 3 24.7	2.466	3.447	2.7	19.6
3 12	11 19.10	+ 2 53.0	2.358	3.351	0.8	20.3	3 12	11 18.91	+ 3 49.3	2.449	3.441	0.8	19.5
3 22	11 12.07	+ 3 43.4	2.381	3.357	4.1	20.6	3 22	11 10.84	+ 4 13.3	2.462	3.435	4.2	19.7
4 1	11 5.88	+ 4 29.1	2.433	3.362	7.4	20.8	4 1	11 3.58	+ 4 33.2	2.504	3.429	7.4	19.9
4 11	11 1.07	+ 5 6.4	2.511	3.367	10.3	21.0	4 11	10 57.70	+ 4 46.3	2.573	3.423	10.3	20.1
<b>172967</b>	2005 <i>NK</i> <sub>55</sub>		3 9.7 250°40	1°6/11.3	18		<b>31147</b>	Miriquidi		3 9.7 321°87	2°9/11.9	18	
2 1	11 44.70	- 1 47.9	2.406	3.171	12.9	20.0	2 1	11 44.77	- 4 25.0	1.436	2.226	19.0	17.6
2 11	11 40.50	- 1 52.6	2.307	3.167	10.3	19.8	2 11	11 41.83	- 4 29.5	1.349	2.221	15.4	17.3
2 21	11 34.45	- 1 45.2	2.231	3.162	7.2	19.6	2 21	11 36.02	- 4 11.4	1.282	2.216	11.0	17.1
3 2	11 27.01	- 1 27.3	2.182	3.157	3.8	19.3	3 2	11 27.92	- 3 31.8	1.237	2.212	6.2	16.8
3 12	11 18.88	- 1 1.7	2.162	3.153	1.6	19.2	3 12	11 18.63	- 2 35.4	1.218	2.208	2.9	16.5
3 22	11 10.84	- 0 32.4	2.171	3.148	4.3	19.4	3 22	11 9.48	- 1 30.3	1.224	2.204	6.3	16.7
4 1	11 3.68	- 0 3.7	2.209	3.143	7.7	19.6	4 1	11 1.80	- 0 25.9	1.255	2.200	11.2	17.0
4 11	10 58.04	+ 0 20.2	2.273	3.138	10.8	19.7	4 11	10 56.62	+ 0 29.2	1.309	2.197	15.7	17.3
<b>373429</b>	1999 <i>TN</i> <sub>44</sub>		3 9.7 166°12	0°6/10.3	17		<b>40307</b>	1999 <i>JN</i> <sub>115</sub>		3 9.7 248°11	1°8/ 8.2	18	
2 1	11 45.21	+ 0 13.7	2.283	3.058	13.2	21.9	2 1	11 47.70	+ 5 58.8	1.810	2.613	15.1	20.3
2 11	11 40.93	+ 0 30.7	2.193	3.061	10.4	21.7	2 11	11 43.60	+ 6 37.8	1.711	2.598	11.8	20.1
2 21	11 34.74	+ 1 0.3	2.126	3.063	7.0	21.5	2 21	11 36.96	+ 7 30.0	1.634	2.582	7.8	19.8
3 2	11 27.13	+ 1 39.7	2.086	3.066	3.3	21.3	3 2	11 28.30	+ 8 30.1	1.583	2.566	3.5	19.5
3 12	11 18.85	+ 2 24.6	2.075	3.068	0.9	21.1	3 12	11 18.53	+ 9 30.9	1.560	2.549	2.6	19.4
3 22	11 10.73	+ 3 9.9	2.094	3.069	4.6	21.3	3 22	11 8.78	+ 10 24.8	1.566	2.532	7.0	19.6
4 1	11 3.59	+ 3 50.7	2.141	3.071	8.2	21.6	4 1	11 0.21	+ 11 5.3	1.598	2.514	11.4	19.8
4 11	10 58.06	+ 4 22.9	2.214	3.072	11.4	21.8	4 11	10 53.76	+ 11 28.4	1.653	2.496	15.3	20.0
<b>500400</b>	2012 <i>TN</i> <sub>97</sub>		3 9.7 266°71	5°0/ 4.9	17		<b>207606</b>	2006 <i>QK</i> <sub>122</sub>		3 9.7 198°07	1°6/11.4	17	
2 1	11 48.98	+ 18 50.9	2.250	3.061	12.3	21.4	2 1	11 44.92	- 2 15.5	2.628	3.385	12.1	21.0
2 11	11 43.90	+ 19 26.3	2.171	3.058	9.6	21.2	2 11	11 40.50	- 2 17.3	2.528	3.383	9.7	20.8
2 21	11 36.71	+ 20 1.3	2.116	3.056	6.9	21.1	2 21	11 34.37	- 2 7.5	2.452	3.381	6.8	20.6
3 2	11 28.00	+ 20 29.8	2.088	3.054	5.1	20.9	3 2	11 26.97	- 1 47.6	2.404	3.378	3.6	20.4
3 12	11 18.61	+ 20 46.1	2.089	3.051	5.7	21.0	3 12	11 18.95	- 1 20.5	2.385	3.375	1.6	20.2
3 22	11 9.49	+ 20 46.3	2.119	3.049	8.1	21.1	3 22	11 11.03	- 0 49.7	2.396	3.372	4.0	20.4
4 1	11 1.52	+ 20 28.9	2.174	3.046	10.9	21.3	4 1	11 3.92	- 0 19.4	2.436	3.369	7.2	20.6
4 11	10 55.39	+ 19 54.5	2.253	3.044	13.5	21.5	4 11	10 58.21	+ 0 6.6	2.503	3.365	10.1	20.8
<b>41219</b>	1999 <i>XR</i> <sub>11</sub>		3 9.7 202°89	4°7/ 4.0	18		<b>236731</b>	2007 <i>HZ</i> <sub>32</sub>		3 9.7 212°66	0°4/ 9.4	18	
2 1	11 49.37	+ 19 42.1	2.737	3.538	10.6	20.6	2 1	11 48.67	+ 2 53.7	1.537	2.340	17.3	21.3
2 11	11 43.87	+ 20 30.9	2.651	3.532	8.3	20.4	2 11	11 44.63	+ 3 13.1	1.453	2.338	13.6	21.0
2 21	11 36.55	+ 21 19.4	2.591	3.526	6.1	20.3	2 21	11 37.76	+ 3 48.5	1.389	2.335	9.1	20.8
3 2	11 27.90	+ 22 2.0	2.560	3.519	4.8	20.2	3 2	11 28.67	+ 4 35.4	1.349	2.332	4.0	20.5
3 12	11 18.64	+ 22 33.3	2.559	3.511	5.4	20.2	3 12	11 18.46	+ 5 27.0	1.337	2.329	1.5	20.3
3 22	11 9.54	+ 22 49.6	2.587	3.503	7.5	20.3	3 22	11 8.45	+ 6 15.3	1.351	2.326	6.7	20.6
4 1	11 1.37	+ 22 49.1	2.642	3.494	9.9	20.5	4 1	10 59.92	+ 6 53.3	1.392	2.322	11.6	20.9
4 11	10 54.75	+ 22 31.9	2.722	3.485	12.1	20.6	4 11	10 53.86	+ 7 16.1	1.454	2.318	15.9	21.1
<b>389883</b>	2012 <i>SL</i> <sub>59</sub>		3 9.7 103°91	1°2/ 8.4	17		<b>461689</b>	2005 <i>NB</i> <sub>68</sub>		3 9.7 136°92	1°4/11.2	18	
2 1	11 46.92	+ 7 12.9	2.573	3.360	11.6	21.4	2 1	11 46.84	- 2 52.1	2.291	3.049	13.7	22.4
2 11	11 41.87	+ 7 30.2	2.499	3.378	8.9	21.2	2 11	11 42.11	- 2 33.0	2.207	3.063	10.8	22.2
2 21	11 35.14	+ 7 53.8	2.450	3.395	5.8	21.1	2 21	11 35.47	- 1 59.3	2.147	3.077	7.5	22.0
3 2	11 27.23	+ 8 20.2	2.429	3.412	2.5	20.9	3 2	11 27.46	- 1 13.3	2.114	3.090	3.9	21.8
3 12	11 18.86	+ 8 45.3	2.439	3.429	1.7	20.8	3 12	11 18.84	- 0 19.6	2.110	3.102	1.4	21.7
3 22	11 10.76	+ 9 5.5	2.479	3.445	4.8	21.1	3 22	11 10.45	+ 0 36.5	2.137	3.113	4.4	21.9
4 1	11 3.62	+ 9 17.8	2.548	3.461	7.8	21.3	4 1	11 3.09	+ 1 29.6	2.192	3.124	7.9	22.1
4 11	10 57.97	+ 9 20.5	2.642	3.477	10.5	21.5	4 11	10 57.37	+ 2 14.9	2.274	3.134	11.0	22.4
<b>1263</b>	Varsavia		3 9.7 60°03	2°9/ 6.2	18		<b>106403</b>	2000 <i>VN</i> <sub>28</sub>		3 9.7 88°15	0°3/ 9.4	18	
2 1	11 41.67	+ 2 12.6	1.626	2.436	16.2	14.1	2 1	11 46.99	+ 1 30.9	1.574	2.374	17.1	20.1
2 11	11 38.81	+ 4 44.4	1.561	2.455	12.3	13.9	2 11	11 42.99	+ 2 10.4	1.507	2.391	13.3	19.9
2 21	11 33.60	+ 7 37.9	1.522	2.475	7.8	13.6	2 21	11 36.41	+ 3 7.2	1.461	2.407	8.8	19.6
3 2	11 26.68	+ 10 41.2	1.511	2.495	3.6	13.4	3 2	11 27.95	+ 4 15.8	1.441	2.424	3.8	19.4
3 12	11 19.02	+ 13 38.8	1.531	2.515	4.2	13.5	3 12	11 18.71	+ 5 28.1	1.447	2.440	1.4	19.2
3 22	11 11.71	+ 16 16.9	1.581	2.535	8.3	13.8	3 22	11 9.88	+ 6 35.5	1.482	2.456	6.3	19.6
4 1	11 5.74	+ 18 25.8	1.659	2.555	12.3	14.1	4 1	11 2.57	+ 7 30.8	1.543	2.472	10.8	19.9
4 11	11 1.84	+ 20 1.4	1.759	2.575	15.7	14.3	4 11	10 57.53	+ 8 9.3	1.626	2.487	14.6	20.2
<b>207227</b>	2005 <i>EL</i> <sub>147</sub>		3 9.7 248°67	1°3/ 8.3	17		<b>267835</b>	2003 <i>UM</i> <sub>140</sub>		3 9.7 220°47	1°4/ 8.1	18	
2 1	11 44.27	+ 6 9.7	2.323	3.118	12.4	21.2	2 1	11 43.30	+ 5 12.1	2.391	3.185	12.2	20.9
2 11	11 40.26	+ 6 39.3	2.226	3.110	9.6	21.0	2 11	11 39.47	+ 6 2.2	2.295	3.177	9.4	20.7
2 21	11 34.34	+ 7 18.1	2.153	3.101	6.3	20.8	2 21	11 33.81	+ 7 3.1	2.223	3.170	6.1	20.5
3 2	11 26.99	+ 8 2.1	2.108	3.091	2.8	20.6	3 2	11 26.77	+ 8 10.5	2.178	3.162	2.7	20.3
3 12	11 18.91	+ 8 46.2	2.092	3.082	1.9	20.5	3 12	11 19.04	+ 9 18.5	2.164	3.153	2.0	20.2
3 22	11 10.94	+ 9 25.2	2.105	3.072	5.4	20.7	3 22	11 11.40	+ 10 21.1	2.179	3.144	5.4	20.4
4 1	11 3.87	+ 9 54.9	2.147	3.063	8.9	20.9	4 1	11 4.62	+ 11 13.2	2.223	3.135	8.9	20.6
4 11	10 58.38	+ 10 12.4	2.213	3.053	12.1	21.1	4 11	10 59.34	+ 11 51.4	2.291	3.125	11.9	20.8
<b>292493</b>	2006 <i>SS</i> <sub>410</sub>		3 9.7 154°88	2°1/12.5	17		<b>331777</b>	2003 <i>EF</i> <sub>59</sub>		3 9.7 326°74	19°4/11.0	17	

EPHEMERIDES

3 9.7

3 9.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>179985</b>	2002 <i>XX</i> <sub>55</sub>		3 9.7 116°48	2°0/11.8	18		<b>126998</b>	2002 <i>FO</i> <sub>35</sub>		3 9.7 247°83	4°0/13.8	18	
2 1	11 47.24	- 4 41.6	2.174	2.927	14.5	20.4	2 1	11 45.64	- 9 37.1	2.415	3.140	13.9	20.1
2 11	11 42.47	- 4 24.3	2.097	2.948	11.5	20.3	2 11	11 41.43	- 9 51.6	2.298	3.123	11.6	19.9
2 21	11 35.73	- 3 50.5	2.043	2.968	8.1	20.1	2 21	11 35.24	- 9 49.6	2.203	3.106	8.9	19.7
3 2	11 27.57	- 3 2.5	2.015	2.987	4.5	19.9	3 2	11 27.49	- 9 30.6	2.133	3.088	6.0	19.5
3 12	11 18.83	- 2 5.0	2.016	3.006	2.0	19.7	3 12	11 18.87	- 8 56.3	2.092	3.069	4.0	19.3
3 22	11 10.38	- 1 3.7	2.047	3.024	4.5	20.0	3 22	11 10.19	- 8 10.1	2.079	3.051	5.1	19.3
4 1	11 3.04	- 0 4.5	2.107	3.042	8.0	20.2	4 1	11 2.31	- 7 17.4	2.096	3.031	8.0	19.5
4 11	10 57.44	+ 0 47.2	2.193	3.058	11.2	20.4	4 11	10 55.99	- 6 24.1	2.138	3.011	11.1	19.6
<b>36754</b>	2000 <i>RL</i> <sub>70</sub>		3 9.7 231°25	0°2/ 9.5	18		<b>327897</b>	2007 <i>BH</i> <sub>74</sub>		3 9.8 292°31	7°3/ 1.6	18	
2 1	11 46.80	+ 3 8.2	2.110	2.897	13.8	19.4	2 1	11 42.94	+18 33.7	1.739	2.574	14.2	20.3
2 11	11 42.43	+ 3 23.4	2.013	2.889	10.8	19.2	2 11	11 40.07	+20 26.4	1.661	2.562	11.2	20.0
2 21	11 35.92	+ 3 50.1	1.938	2.882	7.2	19.0	2 21	11 34.68	+22 24.4	1.607	2.550	8.5	19.8
3 2	11 27.76	+ 4 25.0	1.891	2.873	3.2	18.7	3 2	11 27.32	+24 16.8	1.580	2.538	7.3	19.7
3 12	11 18.76	+ 5 3.3	1.872	2.865	1.1	18.5	3 12	11 18.93	+25 51.7	1.579	2.525	8.7	19.8
3 22	11 9.85	+ 5 39.8	1.883	2.856	5.3	18.8	3 22	11 10.68	+27 0.5	1.604	2.514	11.7	19.9
4 1	11 1.99	+ 6 9.5	1.922	2.847	9.2	19.0	4 1	11 3.70	+27 38.5	1.652	2.502	14.9	20.1
4 11	10 55.90	+ 6 28.7	1.985	2.838	12.7	19.2	4 11	10 58.88	+27 46.0	1.719	2.490	17.8	20.3
<b>466754</b>	2015 <i>AZ</i> <sub>118</sub>		3 9.7 269°17	0°6/ 9.1	17		<b>82478</b>	2001 <i>OS</i> <sub>25</sub>		3 9.8 174°29	4°7/15.5	18	
2 1	11 43.04	+ 2 34.5	1.950	2.747	14.4	21.6	2 1	11 44.09	-13 59.1	2.732	3.425	13.1	19.9
2 11	11 39.66	+ 3 14.1	1.860	2.743	11.2	21.3	2 11	11 39.88	-14 16.7	2.630	3.427	11.1	19.8
2 21	11 34.13	+ 4 8.3	1.793	2.739	7.4	21.1	2 21	11 33.99	-14 17.4	2.550	3.429	8.8	19.6
3 2	11 26.97	+ 5 12.5	1.752	2.735	3.2	20.8	3 2	11 26.85	-14 0.8	2.496	3.430	6.5	19.5
3 12	11 18.99	+ 6 20.4	1.739	2.731	1.4	20.7	3 12	11 19.09	-13 28.0	2.468	3.431	4.9	19.4
3 22	11 11.16	+ 7 24.8	1.755	2.727	5.7	21.0	3 22	11 11.41	-12 42.4	2.470	3.432	5.2	19.4
4 1	11 4.40	+ 8 19.4	1.798	2.723	9.8	21.2	4 1	11 4.51	-11 48.4	2.501	3.432	7.1	19.5
4 11	10 59.47	+ 8 59.5	1.865	2.719	13.3	21.4	4 11	10 58.99	-10 51.6	2.559	3.432	9.5	19.6
<b>376442</b>	2012 <i>HM</i> <sub>40</sub>		3 9.7 305°44	1°6/10.7	17		<b>461700</b>	2005 <i>QW</i> <sub>174</sub>		3 9.8 112°89	2°9/13.3	18	
2 1	11 49.73	+ 1 8.4	1.657	2.447	16.8	20.2	2 1	11 45.33	- 9 15.7	2.285	3.017	14.4	21.4
2 11	11 45.44	+ 0 38.7	1.557	2.432	13.5	20.0	2 11	11 40.93	- 8 48.3	2.207	3.039	11.7	21.2
2 21	11 38.35	+ 0 20.9	1.478	2.417	9.4	19.7	2 21	11 34.69	- 8 1.7	2.150	3.061	8.6	21.1
3 2	11 28.99	+ 0 14.1	1.423	2.403	4.7	19.4	3 2	11 27.13	- 6 57.6	2.119	3.082	5.3	20.9
3 12	11 18.37	+ 0 15.1	1.396	2.388	1.7	19.1	3 12	11 19.03	- 5 40.6	2.118	3.102	3.0	20.8
3 22	11 7.75	+ 0 19.8	1.397	2.374	6.0	19.4	3 22	11 11.20	- 4 16.9	2.146	3.122	4.5	20.9
4 1	10 58.43	+ 0 23.4	1.423	2.361	10.8	19.6	4 1	11 4.41	- 2 53.4	2.204	3.141	7.6	21.1
4 11	10 51.46	+ 0 21.2	1.473	2.347	15.1	19.8	4 11	10 59.24	- 1 36.5	2.289	3.160	10.6	21.4
<b>196196</b>	2003 <i>AU</i> <sub>57</sub>		3 9.7 352°82	5°9/ 5.4	18		<b>417059</b>	2005 <i>UL</i> <sub>202</sub>		3 9.8 121°68	3°5/ 6.2	18	
2 1	11 44.60	+12 36.9	1.189	2.036	18.6	19.7	2 1	11 47.86	+12 13.3	2.071	2.879	13.2	21.2
2 11	11 42.19	+13 48.2	1.122	2.033	14.4	19.4	2 11	11 43.10	+13 4.1	2.001	2.892	10.1	21.1
2 21	11 36.48	+15 10.6	1.074	2.030	9.8	19.1	2 21	11 36.23	+14 0.3	1.956	2.904	6.8	20.9
3 2	11 28.18	+16 32.8	1.050	2.028	6.2	18.9	3 2	11 27.84	+14 55.4	1.939	2.916	3.9	20.7
3 12	11 18.64	+17 41.5	1.050	2.027	7.1	19.0	3 12	11 18.83	+15 42.8	1.950	2.928	4.3	20.8
3 22	11 9.48	+18 26.3	1.073	2.026	11.3	19.2	3 22	11 10.14	+16 17.0	1.990	2.939	7.2	21.0
4 1	11 2.20	+18 41.5	1.118	2.026	15.9	19.4	4 1	11 2.66	+16 34.9	2.057	2.949	10.5	21.2
4 11	10 57.84	+18 27.1	1.182	2.027	20.0	19.7	4 11	10 57.05	+16 35.4	2.147	2.960	13.3	21.4
<b>108921</b>	2001 <i>PY</i> <sub>15</sub>		3 9.7 163°73	1°3/ 8.4	18		<b>87401</b>	2000 <i>QS</i> <sub>74</sub>		3 9.8 260°98	0°5/10.2	17	
2 1	11 48.04	+ 5 56.1	2.212	3.001	13.1	20.3	2 1	11 45.38	+ 0 20.7	2.058	2.839	14.3	20.4
2 11	11 43.16	+ 6 27.0	2.127	3.007	10.1	20.1	2 11	11 41.52	+ 0 40.1	1.950	2.822	11.3	20.2
2 21	11 36.25	+ 7 7.2	2.066	3.012	6.6	19.9	2 21	11 35.46	+ 1 14.2	1.864	2.804	7.7	19.9
3 2	11 27.84	+ 7 52.5	2.033	3.016	2.9	19.6	3 2	11 27.64	+ 2 0.4	1.804	2.785	3.6	19.7
3 12	11 18.76	+ 8 37.3	2.030	3.020	1.9	19.6	3 12	11 18.85	+ 2 53.8	1.773	2.766	0.9	19.4
3 22	11 9.88	+ 9 16.5	2.056	3.023	5.5	19.8	3 22	11 10.04	+ 3 48.4	1.771	2.747	5.2	19.7
4 1	11 2.08	+ 9 45.7	2.111	3.026	9.1	20.0	4 1	11 2.20	+ 4 38.0	1.797	2.727	9.4	19.9
4 11	10 56.02	+10 2.3	2.190	3.027	12.3	20.2	4 11	10 56.15	+ 5 17.2	1.847	2.707	13.2	20.1
<b>478162</b>	2011 <i>UN</i> <sub>175</sub>		3 9.7 251°36	3°7/14.3	17		<b>235520</b>	2004 <i>CC</i> <sub>3</sub>		3 9.8 102°12	0°8/10.7	18	R
2 1	11 42.37	-10 54.1	2.809	3.523	12.4	21.8	2 1	11 41.64	- 2 16.0	2.268	3.040	13.4	20.5
2 11	11 38.58	-11 0.1	2.692	3.508	10.4	21.6	2 11	11 38.19	- 1 35.6	2.183	3.049	10.5	20.3
2 21	11 33.16	-10 50.7	2.596	3.492	8.0	21.4	2 21	11 32.95	- 0 39.5	2.122	3.058	7.2	20.1
3 2	11 26.49	-10 25.6	2.527	3.476	5.5	21.3	3 2	11 26.39	+ 0 28.9	2.087	3.066	3.5	19.9
3 12	11 19.14	- 9 46.7	2.486	3.460	3.8	21.1	3 12	11 19.25	+ 1 44.1	2.082	3.074	0.9	19.7
3 22	11 11.79	- 8 57.1	2.474	3.444	4.5	21.1	3 22	11 12.28	+ 2 59.9	2.106	3.083	4.4	20.0
4 1	11 5.11	- 8 1.5	2.492	3.427	6.9	21.3	4 1	11 6.26	+ 4 10.1	2.159	3.091	8.0	20.2
4 11	10 59.71	- 7 5.1	2.536	3.410	9.6	21.4	4 11	11 1.77	+ 5 9.6	2.237	3.099	11.1	20.4
<b>303211</b>	2004 <i>HZ</i> <sub>63</sub>		3 9.7 276°21	6°8/18.9	17		<b>372804</b>	2010 <i>SH</i> <sub>41</sub>		3 9.8 197°77	2°3/ 7.8	18	
2 1	11 40.33	-22 33.4	2.571	3.218	14.8	21.0	2 1	11 48.14	+ 7 51.5	1.786	2.593	15.1	21.3
2 11	11 37.29	-22 31.9	2.450	3.201	13.1	20.8	2 11	11 43.81	+ 8 26.7	1.702	2.592	11.6	21.0
2 21	11 32.45	-22 6.3	2.347	3.184	11.1	20.7	2 21	11 37.00	+ 9 12.1	1.641	2.590	7.7	20.8
3 2	11 26.22	-21 14.5	2.267	3.166	8.9	20.5	3 2	11 28.29	+10 2.2	1.606	2.589	3.6	20.5
3 12	11 19.23	-19 57.3	2.212	3.149	7.2	20.3	3 12	11 18.69	+10 49.6	1.599	2.587	3.0	20.5
3 22	11 12.24	-18 18.1	2.185	3.131	6.9	20.3	3 22	11 9.29	+11 27.8	1.620	2.585	7.0	20.7
4 1	11 6.04	-16 23.4	2.186	3.113	8.2	20.3	4 1	11 1.21	+11 51.8	1.668	2.582	11.1	21.0
4 11	11 1.29	-14 21.8	2.215	3.095	10.5	20.4	4 11	10 55.27	+11 58.9	1.738	2.579	14.8	21.2
<b>125152</b>	2001 <i>UO</i> <sub>83</sub>		3 9.7 64°58	3°9/ 6.8	18		<b>100897</b>	Piatra Neamt		3 9.8 231°85	0°1/ 9.6	18	

EPHEMERIDES

3 9.8

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>136834</b>	1997 <i>UD</i> <sub>1</sub>		3 9.8 102°61	4°9/14.4	18		<b>310321</b>	2011 <i>UW</i> <sub>157</sub>		3 9.8 56°15	0°8/ 9.2	18	
2 1	11 46.07	-10 59.9	1.908	2.642	16.8	20.1	2 1	11 47.48	+ 3 31.2	1.384	2.199	18.3	21.0
2 11	11 42.05	-11 19.6	1.824	2.652	14.0	19.9	2 11	11 43.72	+ 3 55.5	1.321	2.213	14.2	20.7
2 21	11 35.74	-11 17.9	1.759	2.661	10.7	19.7	2 21	11 37.09	+ 4 35.8	1.279	2.229	9.3	20.5
3 2	11 27.71	-10 54.4	1.718	2.671	7.4	19.5	3 2	11 28.35	+ 5 26.5	1.260	2.244	4.0	20.2
3 12	11 18.87	-10 11.5	1.704	2.680	5.1	19.4	3 12	11 18.75	+ 6 19.5	1.268	2.260	1.7	20.1
3 22	11 10.24	- 9 14.4	1.718	2.689	6.0	19.5	3 22	11 9.63	+ 7 6.5	1.302	2.276	6.9	20.5
4 1	11 2.80	- 8 10.4	1.759	2.698	9.0	19.7	4 1	11 2.23	+ 7 40.7	1.360	2.292	11.7	20.8
4 11	10 57.34	- 7 7.1	1.824	2.706	12.3	19.9	4 11	10 57.37	+ 7 58.4	1.441	2.309	15.8	21.1
<b>160821</b>	2000 <i>WH</i> <sub>133</sub>		3 9.8 189°89	0°6/10.2	18		<b>85329</b>	1995 <i>PQ</i>		3 9.8 116°30	4°1/ 4.5	18	
2 1	11 49.88	+ 0 59.4	1.881	2.662	15.4	20.3	2 1	11 46.68	+14 50.8	2.558	3.362	11.1	20.4
2 11	11 45.06	+ 1 7.2	1.790	2.661	12.2	20.1	2 11	11 41.76	+16 11.6	2.500	3.387	8.5	20.2
2 21	11 37.80	+ 1 28.9	1.721	2.660	8.3	19.9	2 21	11 35.14	+17 35.2	2.468	3.411	5.9	20.1
3 2	11 28.66	+ 2 1.8	1.678	2.658	3.9	19.6	3 2	11 27.33	+18 54.9	2.466	3.435	4.1	20.0
3 12	11 18.59	+ 2 40.9	1.663	2.656	1.0	19.4	3 12	11 19.06	+20 4.4	2.494	3.457	4.8	20.1
3 22	11 8.68	+ 3 20.4	1.677	2.653	5.5	19.7	3 22	11 11.08	+20 58.9	2.553	3.479	7.1	20.3
4 1	11 0.00	+ 3 54.6	1.720	2.650	9.8	19.9	4 1	11 4.10	+21 35.7	2.638	3.500	9.5	20.5
4 11	10 53.40	+ 4 18.8	1.786	2.646	13.6	20.2	4 11	10 58.65	+21 54.3	2.747	3.520	11.8	20.6
<b>186611</b>	2003 <i>EH</i> <sub>14</sub>		3 9.8 266°69	4°9/ 4.5	18		<b>427229</b>	2014 <i>WP</i> <sub>48</sub>		3 9.8 160°48	0°5/ 9.2	17	
2 1	11 43.24	+12 51.1	1.813	2.639	14.1	20.0	2 1	11 46.19	+ 2 26.5	2.109	2.894	13.8	22.1
2 11	11 40.07	+14 21.9	1.734	2.634	10.9	19.8	2 11	11 41.87	+ 3 6.8	2.024	2.900	10.7	21.9
2 21	11 34.54	+16 1.7	1.679	2.629	7.5	19.6	2 21	11 35.49	+ 4 0.3	1.962	2.905	7.1	21.7
3 2	11 27.22	+17 41.7	1.650	2.624	5.1	19.4	3 2	11 27.59	+ 5 2.8	1.927	2.910	3.1	21.5
3 12	11 19.01	+19 11.6	1.649	2.618	6.0	19.4	3 12	11 18.97	+ 6 8.1	1.922	2.914	1.3	21.3
3 22	11 10.97	+20 23.0	1.676	2.613	9.2	19.6	3 22	11 10.55	+ 7 9.9	1.947	2.918	5.3	21.6
4 1	11 4.14	+21 10.6	1.727	2.608	12.8	19.8	4 1	11 3.20	+ 8 2.3	1.999	2.921	9.1	21.8
4 11	10 59.31	+21 32.7	1.799	2.603	15.9	20.0	4 11	10 57.62	+ 8 41.4	2.076	2.924	12.5	22.1
<b>231975</b>	2001 <i>QX</i> <sub>129</sub>		3 9.8 268°84	4°5/12.8	17		<b>379989</b>	2012 <i>UH</i> <sub>134</sub>		3 9.8 103°33	4°4/14.3	17	
2 1	11 49.41	- 6 40.9	1.626	2.388	18.2	21.1	2 1	11 45.80	-10 16.3	2.403	3.124	14.1	20.8
2 11	11 45.50	- 7 11.3	1.515	2.366	15.2	20.8	2 11	11 41.38	-10 45.8	2.311	3.131	11.7	20.6
2 21	11 38.66	- 7 22.2	1.422	2.343	11.4	20.5	2 21	11 35.09	-10 59.2	2.241	3.138	9.0	20.4
3 2	11 29.29	- 7 12.1	1.353	2.319	7.2	20.2	3 2	11 27.39	-10 56.1	2.196	3.145	6.2	20.3
3 12	11 18.37	- 6 42.3	1.310	2.295	4.5	20.0	3 12	11 19.02	-10 38.0	2.179	3.152	4.4	20.2
3 22	11 7.20	- 5 57.5	1.294	2.270	6.8	20.0	3 22	11 10.78	-10 8.0	2.191	3.159	5.2	20.2
4 1	10 57.22	- 5 5.1	1.304	2.245	11.3	20.2	4 1	11 3.48	- 9 30.9	2.231	3.165	7.7	20.4
4 11	10 49.63	- 4 14.1	1.337	2.219	15.9	20.4	4 11	10 57.74	- 8 52.1	2.297	3.172	10.4	20.6
<b>70733</b>	1999 <i>VV</i> <sub>6</sub>		3 9.8 152°69	1°7/ 8.0	18		<b>107300</b>	2001 <i>CZ</i> <sub>5</sub>		3 9.8 90°75	2°8/ 7.3	18	
2 1	11 48.35	+ 6 19.9	2.090	2.883	13.7	19.8	2 1	11 48.51	+ 7 31.0	1.654	2.465	15.9	19.7
2 11	11 43.51	+ 7 3.6	2.010	2.893	10.5	19.6	2 11	11 43.99	+ 8 33.9	1.596	2.488	12.1	19.5
2 21	11 36.55	+ 7 57.5	1.954	2.901	6.9	19.4	2 21	11 36.99	+ 9 48.0	1.560	2.511	7.9	19.3
3 2	11 28.03	+ 8 56.4	1.926	2.909	3.1	19.2	3 2	11 28.23	+11 5.5	1.551	2.533	3.8	19.1
3 12	11 18.82	+ 9 53.9	1.927	2.916	2.4	19.1	3 12	11 18.81	+12 17.5	1.569	2.555	3.6	19.2
3 22	11 9.86	+10 43.7	1.958	2.922	6.0	19.4	3 22	11 9.87	+13 16.1	1.616	2.576	7.5	19.4
4 1	11 2.06	+11 21.3	2.017	2.928	9.7	19.6	4 1	11 2.44	+13 56.4	1.689	2.597	11.4	19.7
4 11	10 56.09	+11 43.8	2.100	2.933	12.9	19.8	4 11	10 57.25	+14 16.4	1.784	2.618	14.8	20.0
<b>9146</b>	Tulikov		3 9.8 306°33	4°6/ 6.0	18		<b>150911</b>	2001 <i>TO</i> <sub>26</sub>		3 9.8 230°06	0°2/ 9.5	17	
2 1	11 47.54	+12 48.3	1.584	2.410	15.8	17.2	2 1	11 47.68	+ 2 47.9	2.396	3.172	12.6	21.9
2 11	11 43.70	+13 39.5	1.506	2.406	12.2	16.9	2 11	11 42.95	+ 3 10.8	2.287	3.157	9.9	21.6
2 21	11 37.11	+14 38.2	1.451	2.402	8.3	16.7	2 21	11 36.22	+ 3 44.9	2.201	3.142	6.6	21.4
3 2	11 28.41	+15 36.2	1.420	2.398	5.0	16.5	3 2	11 27.95	+ 4 27.1	2.144	3.126	2.9	21.1
3 12	11 18.70	+16 24.4	1.417	2.395	5.5	16.5	3 12	11 18.85	+ 5 12.9	2.117	3.109	1.0	20.9
3 22	11 9.26	+16 55.4	1.439	2.391	9.1	16.7	3 22	11 9.76	+ 5 57.3	2.120	3.092	4.9	21.2
4 1	11 1.30	+17 5.0	1.487	2.388	13.2	16.9	4 1	11 1.53	+ 6 35.3	2.152	3.073	8.6	21.4
4 11	10 55.75	+16 52.4	1.555	2.385	16.8	17.1	4 11	10 54.90	+ 7 3.2	2.209	3.054	11.9	21.6
<b>522286</b>	2016 <i>BC</i> <sub>97</sub>		3 9.8 284°15	5°9/14.6	17		<b>293248</b>	2007 <i>CS</i> <sub>1</sub>		3 9.8 274°83	2°9/11.9	17	
2 1	11 44.51	-11 36.6	1.680	2.425	18.4	21.6	2 1	11 48.12	- 3 33.6	1.899	2.665	15.8	20.6
2 11	11 41.41	-12 4.1	1.580	2.414	15.5	21.4	2 11	11 43.84	- 3 58.9	1.797	2.654	12.9	20.3
2 21	11 35.70	-12 7.8	1.498	2.402	12.1	21.1	2 21	11 37.12	- 4 9.3	1.715	2.642	9.3	20.1
3 2	11 27.86	-11 45.7	1.439	2.391	8.5	20.9	3 2	11 28.44	- 4 5.0	1.658	2.630	5.4	19.8
3 12	11 18.83	-10 59.2	1.404	2.379	6.0	20.7	3 12	11 18.70	- 3 48.5	1.629	2.618	2.9	19.6
3 22	11 9.78	- 9 53.4	1.396	2.368	7.0	20.7	3 22	11 8.96	- 3 23.8	1.629	2.606	5.5	19.8
4 1	11 1.93	- 8 36.6	1.413	2.356	10.4	20.9	4 1	11 0.33	- 2 56.4	1.655	2.593	9.5	20.0
4 11	10 56.30	- 7 19.0	1.454	2.345	14.3	21.1	4 11	10 53.71	- 2 31.9	1.706	2.581	13.4	20.2
<b>243783</b>	2000 <i>SO</i> <sub>54</sub>		3 9.8 198°48	0°9/10.7	17		<b>153945</b>	2001 <i>YP</i> <sub>127</sub>		3 9.8 168°56	0°9/10.8	18	
2 1	11 46.76	- 2 16.9	2.063	2.832	14.7	22.5	2 1	11 47.04	- 1 3.8	2.663	3.420	12.0	21.2
2 11	11 42.48	- 1 41.9	1.965	2.828	11.6	22.2	2 11	11 42.08	- 0 46.9	2.569	3.425	9.5	21.0
2 21	11 36.01	- 0 49.3	1.890	2.824	8.0	22.0	2 21	11 35.41	- 0 18.4	2.499	3.430	6.5	20.9
3 2	11 27.87	+ 0 18.0	1.840	2.819	3.9	21.7	3 2	11 27.50	+ 0 19.5	2.457	3.435	3.2	20.7
3 12	11 18.86	+ 1 34.3	1.820	2.813	1.1	21.5	3 12	11 19.00	+ 1 3.1	2.446	3.438	1.0	20.5
3 22	11 9.94	+ 2 52.5	1.830	2.807	5.1	21.8	3 22	11 10.65	+ 1 48.1	2.465	3.441	4.0	20.7
4 1	11 2.08	+ 4 5.5	1.869	2.799	9.1	22.0	4 1	11 3.14	+ 2 30.1	2.515	3.443	7.2	20.9
4 11	10 56.03	+ 5 7.1	1.932	2.791	12.8	22.2	4 11	10 57.06	+ 3 5.4	2.591	3.444	10.1	21.1
<b>276926</b>	2004 <i>TL</i> <sub>133</sub>		3 9.8 85°51	4°4/14.8	18		<b>421609</b>	2014 <i>OS</i> <sub>234</sub>		3 9.8 166°12	0°8/10.5	16	
2 1													

EPHEMERIDES

3 9.8

3 9.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>362038</b>	2009 AG <sub>2</sub>		3 9.8 66°08	5°6/ 5.4	18		<b>87169</b>	2000 OP <sub>2</sub>		3 9.8 159°44	0°0/ 9.6	17	
2 1	11 48.60	+14 9.8	1.423	2.255	16.9	20.7	2 1	11 44.90	+ 0 38.5	2.767	3.533	11.4	21.2
2 11	11 44.66	+15 15.3	1.361	2.263	13.1	20.5	2 11	11 40.36	+ 1 23.1	2.677	3.542	8.8	21.0
2 21	11 37.77	+16 27.2	1.320	2.271	9.0	20.3	2 21	11 34.24	+ 2 19.1	2.613	3.551	5.9	20.8
3 2	11 28.69	+17 35.5	1.304	2.279	5.9	20.1	3 2	11 26.98	+ 3 23.3	2.577	3.558	2.6	20.6
3 12	11 18.67	+18 29.4	1.314	2.287	6.6	20.2	3 12	11 19.20	+ 4 30.8	2.572	3.565	0.8	20.4
3 22	11 9.14	+19 1.6	1.350	2.296	10.2	20.4	3 22	11 11.57	+ 5 36.7	2.599	3.571	4.1	20.7
4 1	11 1.35	+19 8.3	1.409	2.304	14.1	20.7	4 1	11 4.74	+ 6 36.2	2.656	3.577	7.2	20.9
4 11	10 56.18	+18 50.4	1.488	2.313	17.6	20.9	4 11	10 59.25	+ 7 25.7	2.739	3.581	10.0	21.1
<b>123502</b>	2000 WV <sub>180</sub>		3 9.8 121°72	3°8/13.9	18		<b>464964</b>	2005 WJ <sub>133</sub>		3 9.8 98°74	2°3/ 7.6	16	
2 1	11 46.28	- 9 59.0	2.314	3.038	14.5	20.5	2 1	11 45.82	+ 7 52.2	1.882	2.691	14.4	21.9
2 11	11 41.74	-10 5.0	2.229	3.054	11.9	20.4	2 11	11 41.83	+ 8 33.6	1.805	2.696	11.0	21.7
2 21	11 35.29	- 9 53.0	2.166	3.069	9.0	20.2	2 21	11 35.58	+ 9 24.8	1.751	2.701	7.2	21.5
3 2	11 27.47	- 9 23.5	2.129	3.084	5.9	20.1	3 2	11 27.67	+10 20.0	1.723	2.706	3.4	21.3
3 12	11 19.02	- 8 39.4	2.120	3.098	3.9	19.9	3 12	11 19.00	+11 12.2	1.724	2.711	3.0	21.3
3 22	11 10.79	- 7 45.1	2.140	3.112	4.9	20.0	3 22	11 10.58	+11 55.1	1.752	2.715	6.7	21.5
4 1	11 3.56	- 6 46.6	2.188	3.125	7.7	20.2	4 1	11 3.40	+12 23.9	1.807	2.720	10.5	21.7
4 11	10 57.98	- 5 49.7	2.263	3.137	10.6	20.4	4 11	10 58.17	+12 36.1	1.885	2.725	13.9	21.9
<b>114277</b>	2002 XS <sub>18</sub>		3 9.8 88°84	7°7/29.6	18		<b>269309</b>	2008 SV <sub>151</sub>		3 9.8 276°46	4°6/14.3	17	
2 1	11 47.14	+27 5.5	2.274	3.088	12.0	20.0	2 1	11 43.57	-11 11.9	2.102	2.832	15.6	20.3
2 11	11 42.51	+28 26.5	2.225	3.102	9.9	19.8	2 11	11 40.23	-11 19.6	1.983	2.809	13.1	20.1
2 21	11 35.81	+29 41.4	2.201	3.116	8.2	19.8	2 21	11 34.70	-11 6.6	1.884	2.786	10.1	19.9
3 2	11 27.67	+30 42.2	2.204	3.130	7.7	19.7	3 2	11 27.39	-10 31.7	1.809	2.762	7.0	19.6
3 12	11 18.98	+31 22.5	2.233	3.144	8.6	19.8	3 12	11 19.04	- 9 36.9	1.761	2.738	4.7	19.4
3 22	11 10.67	+31 38.8	2.288	3.158	10.4	20.0	3 22	11 10.58	- 8 26.5	1.741	2.714	5.7	19.4
4 1	11 3.60	+31 30.8	2.367	3.172	12.4	20.1	4 1	11 3.00	- 7 7.6	1.749	2.689	9.0	19.6
4 11	10 58.38	+31 0.7	2.466	3.186	14.3	20.3	4 11	10 57.16	- 5 48.4	1.782	2.665	12.5	19.7
<b>500035</b>	2011 SM <sub>108</sub>		3 9.8 174°91	1°1/11.3	18		<b>134002</b>	2004 VS <sub>9</sub>		3 9.8 148°67	0°2/10.0	18	
2 1	11 43.27	- 2 6.4	3.300	4.049	10.0	22.5	2 1	11 43.48	- 0 18.2	2.309	3.084	13.1	20.8
2 11	11 38.87	- 1 55.1	3.201	4.052	8.0	22.3	2 11	11 39.61	+ 0 24.3	2.222	3.091	10.2	20.6
2 21	11 33.15	- 1 34.1	3.127	4.054	5.5	22.2	2 21	11 33.91	+ 1 21.1	2.159	3.098	6.9	20.4
3 2	11 26.46	- 1 5.0	3.081	4.056	2.9	22.0	3 2	11 26.88	+ 2 28.4	2.123	3.104	3.1	20.2
3 12	11 19.33	- 0 30.5	3.066	4.057	1.1	21.8	3 12	11 19.23	+ 3 40.7	2.117	3.110	0.8	20.0
3 22	11 12.28	+ 0 6.2	3.082	4.058	3.3	22.0	3 22	11 11.75	+ 4 52.0	2.140	3.115	4.6	20.3
4 1	11 5.87	+ 0 41.8	3.128	4.058	5.9	22.2	4 1	11 5.21	+ 5 56.3	2.193	3.120	8.2	20.5
4 11	11 0.55	+ 1 13.1	3.202	4.058	8.3	22.3	4 11	11 0.22	+ 6 49.3	2.271	3.124	11.3	20.8
<b>272284</b>	2005 SE <sub>6</sub>		3 9.8 234°85	0°1/ 9.9	17		<b>463968</b>	2014 VQ <sub>32</sub>		3 9.8 230°08	1°3/ 8.5	16	
2 1	11 47.24	+ 1 49.4	2.165	2.944	13.7	21.8	2 1	11 46.32	+ 4 33.1	2.018	2.812	14.0	21.7
2 11	11 42.81	+ 2 5.6	2.060	2.932	10.8	21.6	2 11	11 42.25	+ 5 16.9	1.919	2.802	10.9	21.4
2 21	11 36.23	+ 2 34.2	1.979	2.920	7.3	21.3	2 21	11 35.94	+ 6 13.9	1.844	2.790	7.2	21.2
3 2	11 27.99	+ 3 12.3	1.925	2.907	3.3	21.1	3 2	11 27.89	+ 7 19.4	1.795	2.779	3.2	20.9
3 12	11 18.86	+ 3 55.4	1.900	2.893	0.9	20.8	3 12	11 18.92	+ 8 26.7	1.776	2.766	2.0	20.8
3 22	11 9.77	+ 4 38.1	1.905	2.879	5.1	21.1	3 22	11 10.01	+ 9 28.8	1.785	2.753	6.1	21.0
4 1	11 1.65	+ 5 15.1	1.938	2.865	9.1	21.3	4 1	11 2.14	+10 19.5	1.823	2.740	10.2	21.2
4 11	10 55.28	+ 5 42.2	1.995	2.849	12.6	21.5	4 11	10 56.13	+10 54.6	1.884	2.726	13.8	21.4
<b>431470</b>	2007 RE <sub>319</sub>		3 9.8 99°99	3°2/13.6	18		<b>125472</b>	2001 WM <sub>14</sub>		3 9.8 231°74	1°5/11.0	17	
2 1	11 42.86	- 8 55.2	2.353	3.089	14.0	21.3	2 1	11 49.85	- 1 53.4	1.966	2.733	15.3	20.2
2 11	11 39.10	- 8 47.9	2.267	3.101	11.4	21.1	2 11	11 45.16	- 1 46.2	1.858	2.719	12.3	20.0
2 21	11 33.55	- 8 22.9	2.203	3.113	8.5	21.0	2 21	11 38.01	- 1 22.9	1.771	2.703	8.6	19.7
3 2	11 26.70	- 7 41.3	2.164	3.125	5.4	20.8	3 2	11 28.88	- 0 45.1	1.710	2.687	4.5	19.4
3 12	11 19.27	- 6 46.4	2.154	3.136	3.3	20.7	3 12	11 18.64	+ 0 2.8	1.678	2.670	1.6	19.2
3 22	11 12.02	- 5 43.4	2.173	3.148	4.5	20.8	3 22	11 8.35	+ 0 55.1	1.675	2.652	5.4	19.4
4 1	11 5.70	- 4 38.0	2.220	3.159	7.4	21.0	4 1	10 59.14	+ 1 45.2	1.700	2.633	9.7	19.6
4 11	11 0.91	- 3 36.2	2.293	3.170	10.3	21.2	4 11	10 51.91	+ 2 27.1	1.750	2.613	13.7	19.8
<b>151187</b>	2001 XB <sub>217</sub>		3 9.8 146°89	4°9/ 4.0	18		<b>174461</b>	2002 YO <sub>11</sub>		3 9.8 17°88	19°1/24.9	18	
2 1	11 47.05	+16 48.0	2.273	3.085	12.1	20.3	2 1	11 46.22	-29 54.8	1.142	1.818	28.8	19.4
2 11	11 42.40	+18 2.7	2.205	3.094	9.4	20.1	2 11	11 44.43	-32 32.6	1.075	1.819	26.8	19.2
2 21	11 35.75	+19 19.7	2.162	3.103	6.7	19.9	2 21	11 38.72	-34 33.3	1.019	1.822	24.5	19.0
3 2	11 27.68	+20 31.8	2.147	3.112	5.0	19.8	3 2	11 29.58	-35 43.9	0.976	1.825	22.1	18.8
3 12	11 18.99	+21 31.9	2.161	3.120	5.8	19.9	3 12	11 18.39	-35 54.7	0.948	1.829	20.1	18.7
3 22	11 10.56	+22 14.8	2.204	3.128	8.2	20.1	3 22	11 7.17	-35 4.0	0.937	1.833	19.1	18.6
4 1	11 3.24	+22 37.8	2.273	3.135	10.9	20.2	4 1	10 58.05	-33 19.7	0.943	1.838	19.4	18.7
4 11	10 57.65	+22 40.7	2.365	3.141	13.4	20.4	4 11	10 52.63	-30 59.4	0.966	1.844	20.8	18.8
<b>366161</b>	2012 FB <sub>23</sub>		3 9.8 168°72	6°2/ 2.3	18		<b>15909</b>	1997 TM <sub>17</sub>		3 9.8 263°02	4°9/13.6	18	
2 1	11 47.98	+20 41.5	2.264	3.077	12.1	21.0	2 1	11 46.29	- 9 15.7	1.662	2.417	18.2	18.4
2 11	11 43.22	+22 9.8	2.196	3.082	9.6	20.9	2 11	11 42.88	- 9 35.0	1.559	2.402	15.2	18.1
2 21	11 36.37	+23 38.1	2.153	3.086	7.3	20.7	2 21	11 36.77	- 9 31.4	1.474	2.387	11.6	17.8
3 2	11 27.98	+24 58.2	2.138	3.089	6.2	20.7	3 2	11 28.41	- 9 3.5	1.412	2.372	7.7	17.6
3 12	11 18.90	+26 2.5	2.152	3.092	7.2	20.7	3 12	11 18.77	- 8 13.5	1.375	2.357	5.0	17.4
3 22	11 10.06	+26 45.7	2.194	3.094	9.4	20.9	3 22	11 9.05	- 7 7.0	1.366	2.341	6.6	17.4
4 1	11 2.35	+27 5.5	2.261	3.096	11.9	21.0	4 1	11 0.55	- 5 52.6	1.382	2.325	10.6	17.6
4 11	10 56.46	+27 2.6	2.349	3.097	14.2	21.2	4 11	10 54.31	- 4 40.0	1.422	2.309	14.8	17.8
<b>401983</b>	2002 VE <sub>73</sub>		3 9.8 100°48	1°1/10.9	18		<b>166734</b>	2002 TC <sub>274</sub>		3 9.8 192°57	4°1/15.9	18	
2 1	11 47.68	- 2 33.6	2.012	2.779	15.0</								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>437004</b>	2012 <i>TG</i> <sub>236</sub>		3 9.8 101°79	4.7/ 4.5 17			<b>345128</b>	2005 <i>QH</i> <sub>169</sub>		3 9.8 158°06	2.9/ 7.4 18		
2 1	11 45.99	+17 37.8	2.331	3.144	11.8	21.5	2 1	11 52.20	+ 9 4.2	1.777	2.579	15.3	21.4
2 11	11 41.52	+18 30.6	2.262	3.152	9.1	21.4	2 11	11 46.92	+ 9 49.9	1.700	2.588	11.8	21.1
2 21	11 35.14	+19 24.2	2.218	3.160	6.5	21.2	2 21	11 39.06	+10 45.1	1.647	2.595	7.8	20.9
3 2	11 27.42	+20 12.4	2.202	3.168	4.8	21.1	3 2	11 29.29	+11 42.9	1.620	2.601	3.9	20.7
3 12	11 19.12	+20 49.4	2.215	3.176	5.4	21.2	3 12	11 18.65	+12 35.7	1.622	2.607	3.7	20.7
3 22	11 11.11	+21 10.8	2.256	3.184	7.8	21.3	3 22	11 8.33	+13 16.5	1.653	2.612	7.5	20.9
4 1	11 4.16	+21 14.6	2.323	3.191	10.4	21.5	4 1	10 59.46	+13 40.8	1.710	2.616	11.5	21.2
4 11	10 58.88	+21 0.9	2.412	3.199	12.8	21.7	4 11	10 52.85	+13 46.8	1.790	2.619	14.9	21.4
<b>401002</b>	2011 <i>QC</i> <sub>31</sub>		3 9.8 217°85	2.4/ 7.6 17			<b>94942</b>	2001 <i>YF</i> <sub>79</sub>		3 9.8 127°73	2.7/ 11.9 18		
2 1	11 48.70	+ 6 47.0	1.826	2.628	15.0	22.3	2 1	11 50.13	- 4 7.3	1.695	2.463	17.4	19.9
2 11	11 44.36	+ 7 41.0	1.732	2.619	11.6	22.1	2 11	11 45.45	- 4 16.3	1.614	2.473	14.0	19.7
2 21	11 37.48	+ 8 48.1	1.661	2.610	7.7	21.8	2 21	11 38.17	- 4 6.6	1.555	2.483	10.0	19.5
3 2	11 28.63	+10 2.2	1.618	2.600	3.6	21.6	3 2	11 28.92	- 3 39.5	1.519	2.492	5.6	19.2
3 12	11 18.74	+11 15.2	1.602	2.589	3.2	21.5	3 12	11 18.76	- 2 59.3	1.512	2.501	2.7	19.1
3 22	11 8.94	+12 18.8	1.616	2.578	7.3	21.7	3 22	11 8.87	- 2 12.2	1.532	2.509	5.6	19.3
4 1	11 0.36	+13 6.6	1.656	2.566	11.5	21.9	4 1	11 0.40	- 1 25.2	1.579	2.518	9.9	19.5
4 11	10 53.90	+13 35.0	1.719	2.552	15.3	22.2	4 11	10 54.21	- 0 44.8	1.650	2.525	13.7	19.8
<b>251020</b>	2006 <i>QV</i> <sub>34</sub>		3 9.8 229°79	1.6/ 8.3 16			<b>375928</b>	2009 <i>WU</i> <sub>62</sub>		3 9.8 43°84	0.7/ 10.5 17		
2 1	11 47.64	+ 5 46.6	1.948	2.746	14.4	21.5	2 1	11 42.72	- 1 13.6	1.803	2.593	15.7	21.1
2 11	11 43.37	+ 6 24.9	1.851	2.736	11.2	21.2	2 11	11 39.57	- 0 43.2	1.722	2.598	12.3	20.9
2 21	11 36.74	+ 7 15.2	1.777	2.725	7.4	21.0	2 21	11 34.18	+ 0 5.1	1.663	2.604	8.4	20.7
3 2	11 28.28	+ 8 12.7	1.730	2.713	3.3	20.7	3 2	11 27.11	+ 1 7.6	1.629	2.609	4.0	20.4
3 12	11 18.86	+ 9 10.7	1.712	2.702	2.3	20.6	3 12	11 19.27	+ 2 18.0	1.622	2.615	1.0	20.2
3 22	11 9.51	+10 2.4	1.722	2.689	6.4	20.8	3 22	11 11.65	+ 3 28.6	1.643	2.621	5.3	20.5
4 1	11 1.28	+10 41.8	1.760	2.676	10.5	21.0	4 1	11 5.21	+ 4 32.2	1.692	2.627	9.5	20.8
4 11	10 55.00	+11 5.5	1.821	2.663	14.2	21.2	4 11	11 0.70	+ 5 23.0	1.764	2.634	13.2	21.0
<b>401020</b>	2011 <i>SZ</i> <sub>36</sub>		3 9.8 99°44	0.4/ 9.4 18			<b>284605</b>	2007 <i>TX</i> <sub>426</sub>		3 9.8 163°43	3.1/ 13.3 17		
2 1	11 45.49	+ 0 29.5	1.565	2.365	17.2	21.5	2 1	11 43.85	- 7 46.0	2.480	3.217	13.3	20.9
2 11	11 41.97	+ 1 22.4	1.493	2.376	13.4	21.3	2 11	11 39.86	- 7 51.0	2.384	3.219	10.9	20.7
2 21	11 35.88	+ 2 35.1	1.442	2.388	8.9	21.1	2 21	11 34.10	- 7 40.5	2.310	3.221	8.1	20.5
3 2	11 27.87	+ 4 1.8	1.416	2.399	3.9	20.8	3 2	11 27.02	- 7 15.2	2.261	3.223	5.1	20.3
3 12	11 19.00	+ 5 33.3	1.417	2.410	1.4	20.7	3 12	11 19.30	- 6 37.5	2.242	3.224	3.1	20.2
3 22	11 10.46	+ 6 59.9	1.446	2.421	6.4	21.0	3 22	11 11.69	- 5 51.6	2.251	3.226	4.4	20.3
4 1	11 3.38	+ 8 13.1	1.502	2.431	11.0	21.3	4 1	11 4.93	- 5 2.4	2.290	3.227	7.3	20.5
4 11	10 58.55	+ 9 7.2	1.580	2.441	15.0	21.6	4 11	10 59.64	- 4 15.2	2.354	3.228	10.2	20.7
<b>296330</b>	2009 <i>EF</i> <sub>20</sub>		3 9.8 35°50	2.9/ 6.3 17			<b>371659</b>	2007 <i>CG</i> <sub>3</sub>		3 9.8 122°97	8.3/ 16.2 17		
2 1	11 41.06	+ 9 3.4	2.132	2.946	12.7	20.0	2 1	11 52.83	-16 35.8	1.985	2.670	17.7	21.1
2 11	11 37.94	+10 12.9	2.055	2.950	9.7	19.8	2 11	11 47.51	-18 1.5	1.893	2.675	15.4	21.0
2 21	11 32.90	+11 31.4	2.003	2.954	6.4	19.6	2 21	11 39.59	-19 7.6	1.821	2.680	12.7	20.8
3 2	11 26.47	+12 52.7	1.977	2.958	3.4	19.5	3 2	11 29.62	-19 49.9	1.771	2.684	10.2	20.6
3 12	11 19.40	+14 9.3	1.981	2.962	3.7	19.5	3 12	11 18.54	-20 6.4	1.748	2.688	8.5	20.5
3 22	11 12.52	+15 14.7	2.013	2.967	6.8	19.7	3 22	11 7.49	-19 58.3	1.751	2.692	8.7	20.6
4 1	11 6.63	+16 3.9	2.072	2.971	10.1	19.9	4 1	10 57.66	-19 30.5	1.781	2.696	10.5	20.7
4 11	11 2.38	+16 34.5	2.154	2.976	13.0	20.1	4 11	10 49.98	-18 50.8	1.836	2.700	13.1	20.8
<b>428345</b>	2007 <i>LQ</i> <sub>4</sub>		3 9.8 234°51	4.7/ 4.2 17			<b>300170</b>	2006 <i>VB</i> <sub>151</sub>		3 9.8 69°53	4.9/ 15.5 18		
2 1	11 45.79	+16 28.4	2.351	3.163	11.7	21.3	2 1	11 42.90	-13 20.0	2.417	3.127	14.3	20.4
2 11	11 41.56	+17 35.5	2.261	3.151	9.1	21.1	2 11	11 39.19	-13 39.9	2.327	3.135	12.0	20.2
2 21	11 35.33	+18 46.2	2.197	3.139	6.5	20.9	2 21	11 33.67	-13 41.3	2.258	3.143	9.5	20.1
3 2	11 27.58	+19 53.8	2.160	3.127	4.8	20.8	3 2	11 26.83	-13 23.9	2.213	3.152	6.9	19.9
3 12	11 19.08	+20 51.3	2.153	3.114	5.6	20.8	3 12	11 19.36	-12 49.3	2.195	3.161	5.1	19.8
3 22	11 10.67	+21 33.2	2.174	3.101	8.1	20.9	3 22	11 12.03	-12 1.2	2.205	3.169	5.4	19.9
4 1	11 3.23	+21 56.1	2.222	3.087	10.9	21.1	4 1	11 5.59	-11 5.0	2.243	3.178	7.6	20.0
4 11	10 57.43	+21 59.1	2.291	3.073	13.6	21.2	4 11	11 0.66	-10 6.8	2.307	3.186	10.2	20.2
<b>305701</b>	2009 <i>BV</i> <sub>166</sub>		3 9.8 96°35	1.9/ 8.2 18			<b>219373</b>	2000 <i>SR</i> <sub>45</sub>		3 9.8 175°29	4.0/ 14.9 17		
2 1	11 50.17	+ 6 6.5	1.637	2.442	16.3	21.8	2 1	11 45.26	-12 40.5	2.722	3.421	13.1	21.1
2 11	11 45.35	+ 6 46.5	1.574	2.462	12.5	21.6	2 11	11 40.81	-12 38.1	2.620	3.425	10.9	20.9
2 21	11 37.96	+ 7 38.4	1.533	2.482	8.2	21.4	2 21	11 34.66	-12 18.2	2.539	3.428	8.5	20.8
3 2	11 28.74	+ 8 35.9	1.518	2.502	3.6	21.1	3 2	11 27.26	-11 41.0	2.485	3.429	5.9	20.6
3 12	11 18.80	+ 9 31.1	1.531	2.521	2.6	21.1	3 12	11 19.24	-10 48.6	2.459	3.431	4.1	20.5
3 22	11 9.33	+10 16.9	1.572	2.540	6.9	21.4	3 22	11 11.31	- 9 45.1	2.463	3.431	4.7	20.5
4 1	11 1.41	+10 48.0	1.640	2.558	11.0	21.7	4 1	11 4.19	- 8 35.7	2.497	3.431	7.0	20.7
4 11	10 55.80	+11 2.1	1.730	2.576	14.6	22.0	4 11	10 58.46	- 7 26.4	2.558	3.430	9.6	20.8
<b>280427</b>	2003 <i>YH</i> <sub>56</sub>		3 9.8 117°65	1.9/ 7.7 17			<b>258870</b>	2002 <i>PD</i> <sub>179</sub>		3 9.8 235°88	4.2/ 13.9 14 C		
2 1	11 44.22	+ 7 14.3	2.250	3.051	12.6	21.1	2 1	11 46.20	-10 31.4	2.171	2.898	15.2	22.6
2 11	11 40.22	+ 7 58.2	2.172	3.059	9.6	20.9	2 11	11 42.15	-10 32.5	2.057	2.883	12.7	22.4
2 21	11 34.34	+ 8 50.8	2.118	3.066	6.3	20.7	2 21	11 35.92	-10 13.3	1.964	2.867	9.7	22.2
3 2	11 27.10	+ 9 47.2	2.091	3.074	2.9	20.5	3 2	11 27.96	- 9 33.3	1.895	2.851	6.5	22.0
3 12	11 19.26	+10 41.6	2.094	3.081	2.5	20.5	3 12	11 19.01	- 8 35.0	1.854	2.834	4.2	21.8
3 22	11 11.63	+11 28.4	2.126	3.088	5.7	20.7	3 22	11 10.02	- 7 23.3	1.843	2.816	5.4	21.8
4 1	11 5.01	+12 3.4	2.185	3.095	9.1	21.0	4 1	11 1.94	- 6 5.0	1.859	2.797	8.7	22.0
4 11	11 0.00	+12 24.2	2.269	3.102	12.0	21.2	4 11	10 55.60	- 4 48.0	1.902	2.778	12.2	22.1
<b>458919</b>	2011 <i>UO</i> <sub>278</sub>		3 9.8 87°30	0.1/ 9.7 18			<b>275679</b>	2000 <i>RP</i> <sub>64</sub>		3 9.8 182°06	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>362632</b>	2011 <i>SC</i> <sub>134</sub>		3 9.8 103°80	1.5°/ 8.5 18			<b>236164</b>	2005 <i>UU</i> <sub>445</sub>		3 9.8 295°42	8°1/ 3.4 18		
2 1	11 49.13	+ 4 40.9	1.666	2.468	16.2	21.5	2 1	11 49.11	+18 57.7	1.362	2.201	17.2	20.2
2 11	11 44.56	+ 5 25.1	1.600	2.486	12.5	21.3	2 11	11 45.54	+20 21.8	1.293	2.195	13.6	19.9
2 21	11 37.46	+ 6 22.8	1.556	2.504	8.2	21.1	2 21	11 38.71	+21 49.3	1.244	2.189	10.2	19.7
3 2	11 28.56	+ 7 28.0	1.538	2.521	3.5	20.9	3 2	11 29.33	+23 7.8	1.220	2.183	8.2	19.6
3 12	11 18.91	+ 8 32.4	1.548	2.538	2.3	20.8	3 12	11 18.73	+24 4.7	1.221	2.178	9.4	19.6
3 22	11 9.68	+ 9 28.6	1.586	2.555	6.6	21.1	3 22	11 8.47	+24 31.6	1.245	2.172	12.7	19.8
4 1	11 1.94	+10 10.7	1.651	2.571	10.8	21.4	4 1	11 0.03	+24 25.3	1.292	2.167	16.5	20.0
4 11	10 56.44	+10 35.4	1.739	2.587	14.5	21.7	4 11	10 54.46	+23 48.4	1.356	2.162	20.0	20.2
<b>90622</b>	1155 <i>T</i> <sub>-2</sub>		3 9.8 119°14	0°7/10.5 18			<b>182748</b>	2001 <i>XJ</i> <sub>110</sub>		3 9.8 185°01	2°4/ 7.0 16		
2 1	11 45.03	- 1 2.3	2.154	2.928	13.9	19.6	2 1	11 46.86	+ 9 14.9	2.443	3.238	11.9	22.0
2 11	11 40.91	- 0 31.7	2.074	2.941	10.9	19.4	2 11	11 42.20	+10 5.2	2.354	3.239	9.1	21.8
2 21	11 34.84	+ 0 13.6	2.017	2.954	7.4	19.2	2 21	11 35.67	+11 2.8	2.291	3.238	6.0	21.6
3 2	11 27.35	+ 1 10.3	1.987	2.967	3.5	19.0	3 2	11 27.76	+12 2.8	2.256	3.237	3.1	21.4
3 12	11 19.24	+ 2 13.1	1.986	2.979	0.9	18.8	3 12	11 19.19	+12 59.2	2.252	3.235	3.0	21.4
3 22	11 11.37	+ 3 15.9	2.014	2.990	4.7	19.1	3 22	11 10.77	+13 46.8	2.277	3.233	6.0	21.6
4 1	11 4.54	+ 4 12.8	2.071	3.002	8.4	19.3	4 1	11 3.28	+14 21.5	2.331	3.229	9.2	21.8
4 11	10 59.40	+ 4 59.2	2.152	3.012	11.6	19.6	4 11	10 57.36	+14 41.2	2.409	3.225	12.0	22.0
<b>258692</b>	2002 <i>FB</i> <sub>38</sub>		3 9.8 324°38	5°2/ 6.4 18			<b>284341</b>	2006 <i>RK</i> <sub>44</sub>		3 9.8 169°21	0°7/ 8.8 18		
2 1	11 46.35	+12 55.7	1.253	2.095	18.2	19.6	2 1	11 43.41	+ 4 42.4	3.042	3.822	10.1	22.0
2 11	11 43.69	+13 34.6	1.170	2.078	14.2	19.3	2 11	11 39.13	+ 5 13.4	2.952	3.826	7.8	21.8
2 21	11 37.70	+14 22.4	1.107	2.062	9.7	19.0	2 21	11 33.43	+ 5 52.1	2.886	3.829	5.1	21.6
3 2	11 28.96	+15 10.2	1.067	2.046	5.8	18.8	3 2	11 26.70	+ 6 35.2	2.849	3.832	2.2	21.4
3 12	11 18.75	+15 47.2	1.051	2.032	6.2	18.7	3 12	11 19.50	+ 7 19.1	2.844	3.835	1.2	21.4
3 22	11 8.67	+16 4.3	1.059	2.018	10.6	18.9	3 22	11 12.42	+ 7 59.8	2.869	3.837	4.1	21.6
4 1	11 0.33	+15 56.4	1.089	2.005	15.5	19.1	4 1	11 6.04	+ 8 34.0	2.923	3.839	6.9	21.8
4 11	10 54.94	+15 22.8	1.137	1.993	20.0	19.4	4 11	11 0.86	+ 8 59.2	3.004	3.840	9.3	21.9
<b>91132</b>	1998 <i>HL</i> <sub>150</sub>		3 9.8 245°46	2°1/ 7.8 17			<b>274550</b>	2008 <i>SL</i> <sub>255</sub>		3 9.8 237°37	1°7/ 8.0 17		
2 1	11 45.59	+ 7 40.6	1.978	2.784	13.9	20.0	2 1	11 44.74	+ 6 40.1	2.192	2.991	12.9	21.0
2 11	11 41.68	+ 8 18.8	1.890	2.779	10.7	19.8	2 11	11 40.83	+ 7 18.2	2.099	2.985	10.0	20.8
2 21	11 35.55	+ 9 6.8	1.825	2.774	7.0	19.5	2 21	11 34.91	+ 8 6.1	2.030	2.978	6.6	20.6
3 2	11 27.75	+ 9 59.4	1.787	2.770	3.3	19.3	3 2	11 27.47	+ 8 59.2	1.987	2.970	3.0	20.4
3 12	11 19.12	+10 50.0	1.777	2.765	2.8	19.3	3 12	11 19.27	+ 9 51.7	1.974	2.963	2.3	20.3
3 22	11 10.65	+11 32.4	1.796	2.760	6.5	19.5	3 22	11 11.18	+10 37.8	1.990	2.955	5.9	20.5
4 1	11 3.29	+12 1.8	1.841	2.755	10.3	19.7	4 1	11 4.07	+11 12.7	2.034	2.947	9.5	20.7
4 11	10 57.81	+12 15.3	1.910	2.749	13.7	19.9	4 11	10 58.63	+11 33.4	2.101	2.939	12.7	20.9
<b>423532</b>	2005 <i>UC</i> <sub>169</sub>		3 9.8 150°25	0°2/10.1 16			<b>68684</b>	2002 <i>CC</i> <sub>142</sub>		3 9.8 235°63	9°8/16.1 18		
2 1	11 46.68	+ 0 49.2	2.370	3.142	12.9	23.4	2 1	11 55.44	-18 29.7	1.930	2.601	18.5	19.8
2 11	11 42.02	+ 1 15.1	2.284	3.151	10.1	23.2	2 11	11 49.97	-20 9.1	1.823	2.590	16.4	19.6
2 21	11 35.51	+ 1 53.1	2.222	3.160	6.8	23.0	2 21	11 41.59	-21 29.8	1.734	2.579	13.9	19.3
3 2	11 27.65	+ 2 40.1	2.188	3.169	3.1	22.8	3 2	11 30.71	-22 25.8	1.667	2.567	11.5	19.2
3 12	11 19.17	+ 3 31.3	2.184	3.177	0.8	22.6	3 12	11 18.30	-22 53.0	1.626	2.555	9.9	19.0
3 22	11 10.89	+ 4 21.6	2.210	3.184	4.5	22.9	3 22	11 5.61	-22 50.9	1.612	2.542	10.1	19.0
4 1	11 3.58	+ 5 6.1	2.264	3.190	8.0	23.2	4 1	10 54.05	-22 23.7	1.623	2.529	12.0	19.1
4 11	10 57.86	+ 5 41.1	2.345	3.196	11.1	23.4	4 11	10 44.79	-21 39.5	1.659	2.515	14.6	19.2
<b>50988</b>	2000 <i>GF</i> <sub>94</sub>		3 9.8 200°82	4°8/ 3.8 18			<b>1665</b>	Gaby		3 9.8 45°15	8°7/ 2.9 18		
2 1	11 44.19	+17 16.4	2.460	3.275	11.2	19.4	2 1	11 47.13	+19 4.9	1.216	2.065	18.2	14.8
2 11	11 40.18	+18 27.2	2.382	3.272	8.7	19.3	2 11	11 43.86	+20 49.9	1.177	2.084	14.2	14.6
2 21	11 34.34	+19 40.3	2.328	3.270	6.3	19.1	2 21	11 37.36	+22 34.7	1.159	2.105	10.6	14.5
3 2	11 27.15	+20 49.3	2.303	3.267	4.8	19.0	3 2	11 28.58	+24 5.2	1.164	2.126	8.7	14.4
3 12	11 19.32	+21 47.6	2.306	3.264	5.6	19.0	3 12	11 19.01	+25 8.7	1.193	2.147	10.0	14.5
3 22	11 11.65	+22 30.2	2.338	3.260	7.9	19.2	3 22	11 10.17	+25 38.6	1.246	2.169	13.1	14.8
4 1	11 4.90	+22 54.2	2.397	3.256	10.5	19.3	4 1	11 3.40	+25 34.0	1.320	2.192	16.5	15.0
4 11	10 59.71	+22 59.0	2.477	3.252	12.8	19.5	4 11	10 59.45	+24 59.0	1.411	2.215	19.5	15.3
<b>50877</b>	2000 <i>GF</i> <sub>29</sub>		3 9.8 74°30	0°5/10.3 18			<b>204264</b>	2004 <i>FL</i> <sub>31</sub>		3 9.8 257°19	20°7/19.4 18		
2 1	11 43.88	+ 0 20.5	2.117	2.900	13.9	18.7	2 1	12 7.38	+47 6.8	1.204	1.992	22.0	19.5
2 11	11 40.11	+ 0 39.0	2.033	2.905	10.9	18.5	2 11	12 1.80	+49 31.5	1.169	1.985	21.0	19.4
2 21	11 34.38	+ 1 11.0	1.971	2.911	7.4	18.3	2 21	11 50.52	+51 26.3	1.150	1.977	20.7	19.3
3 2	11 27.18	+ 1 53.4	1.936	2.917	3.5	18.1	3 2	11 34.77	+52 31.1	1.148	1.969	21.3	19.3
3 12	11 19.31	+ 2 41.3	1.929	2.922	0.9	17.9	3 12	11 17.27	+52 32.3	1.163	1.961	22.6	19.4
3 22	11 11.64	+ 3 29.2	1.952	2.928	4.8	18.2	3 22	11 1.20	+51 28.1	1.192	1.953	24.3	19.5
4 1	11 4.99	+ 4 11.8	2.002	2.934	8.5	18.4	4 1	10 49.09	+49 26.8	1.235	1.945	26.2	19.6
4 11	11 0.04	+ 4 44.8	2.077	2.940	11.8	18.6	4 11	10 42.06	+46 42.7	1.289	1.937	28.0	19.7
<b>490042</b>	2008 <i>TM</i> <sub>36</sub>		3 9.8 175°57	0°2/10.0 17			<b>88956</b>	2001 <i>TF</i> <sub>43</sub>		3 9.8 52°36	2°9/11.6 18		
2 1	11 45.62	+ 1 22.7	2.316	3.094	13.0	22.1	2 1	11 52.55	- 1 41.9	1.256	2.053	20.8	18.3
2 11	11 41.32	+ 1 41.3	2.225	3.095	10.2	21.9	2 11	11 47.93	- 2 19.0	1.197	2.073	16.6	18.1
2 21	11 35.12	+ 2 11.7	2.157	3.096	6.8	21.7	2 21	11 40.07	- 2 36.8	1.156	2.093	11.6	17.8
3 2	11 27.51	+ 2 50.9	2.116	3.097	3.1	21.5	3 2	11 29.84	- 2 36.2	1.138	2.114	6.3	17.6
3 12	11 19.23	+ 3 34.5	2.105	3.098	0.8	21.3	3 12	11 18.64	- 2 21.7	1.145	2.136	2.9	17.4
3 22	11 11.09	+ 4 17.4	2.123	3.098	4.6	21.6	3 22	11 8.06	- 1 59.5	1.178	2.158	6.6	17.7
4 1	11 3.90	+ 4 55.1	2.170	3.098	8.2	21.8	4 1	10 59.49	- 1 37.0	1.236	2.180	11.5	18.1
4 11	10 58.30	+ 5 23.6	2.242	3.097	11.4	22.0	4 11	10 53.84	- 1 20.6	1.315	2.202	15.8	18.4
<b>183453</b>	2003 <i>BK</i> <sub>22</sub>		3 9.8 174°29	4°8/ 4.2 18			<b>373090</b>	2011 <i>FD</i> <sub>134</sub>		3 9.8 66°20	0°4/10.2 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>127049</b>	2002 <i>GJ</i> <sub>44</sub>		3 9.8 212°08	0°9/ 8.7 18			<b>274524</b>	2008 <i>SF</i> <sub>196</sub>		3 9.8 167°58	1°0/ 8.7 17		
2 1	11 47.18	+ 5 51.6	2.823	3.601	10.9	20.4	2 1	11 45.13	+ 4 57.7	2.271	3.063	12.8	21.4
2 11	11 42.23	+ 6 15.0	2.719	3.592	8.4	20.2	2 11	11 40.98	+ 5 29.1	2.184	3.065	9.9	21.2
2 21	11 35.60	+ 6 45.7	2.640	3.583	5.6	20.0	2 21	11 34.93	+ 6 10.6	2.121	3.067	6.5	21.0
3 2	11 27.72	+ 7 20.8	2.590	3.573	2.4	19.8	3 2	11 27.47	+ 6 58.0	2.085	3.068	2.8	20.7
3 12	11 19.21	+ 7 56.1	2.571	3.562	1.5	19.7	3 12	11 19.34	+ 7 46.1	2.079	3.070	1.6	20.6
3 22	11 10.76	+ 8 27.9	2.583	3.550	4.6	19.9	3 22	11 11.38	+ 8 29.7	2.102	3.071	5.2	20.9
4 1	11 3.08	+ 8 52.5	2.625	3.538	7.6	20.1	4 1	11 4.40	+ 9 4.2	2.153	3.072	8.8	21.1
4 11	10 56.74	+ 9 7.6	2.693	3.525	10.4	20.2	4 11	10 59.03	+ 9 26.6	2.228	3.072	11.9	21.3
<b>459924</b>	2014 <i>MF</i> <sub>50</sub>		3 9.8 168°95	7°4/29.4 18			<b>387243</b>	2012 <i>UK</i> <sub>58</sub>		3 9.8 149°08	0°5/ 9.1 17		
2 1	11 48.67	+22 3.2	2.125	2.941	12.7	21.7	2 1	11 44.08	+ 4 4.3	2.804	3.583	10.9	22.2
2 11	11 44.04	+24 10.4	2.062	2.947	10.2	21.6	2 11	11 39.76	+ 4 31.8	2.717	3.591	8.4	22.0
2 21	11 37.12	+26 17.7	2.025	2.951	8.1	21.4	2 21	11 33.90	+ 5 7.6	2.656	3.599	5.5	21.8
3 2	11 28.47	+28 14.6	2.016	2.955	7.4	21.4	3 2	11 26.95	+ 5 48.6	2.623	3.606	2.4	21.6
3 12	11 19.01	+29 51.3	2.037	2.958	8.7	21.5	3 12	11 19.50	+ 6 30.8	2.620	3.612	1.1	21.5
3 22	11 9.75	+31 1.3	2.084	2.961	10.9	21.6	3 22	11 12.20	+ 7 10.1	2.648	3.618	4.2	21.8
4 1	11 1.69	+31 42.1	2.155	2.962	13.4	21.8	4 1	11 5.69	+ 7 42.9	2.705	3.624	7.2	22.0
4 11	10 55.60	+31 54.9	2.247	2.963	15.6	22.0	4 11	11 0.48	+ 8 6.6	2.789	3.630	9.8	22.2
<b>8597</b>	Sandvicensis		3 9.8 277°67	2°0/ 8.2 18			<b>59731</b>	1999 <i>LL</i> <sub>2</sub>		3 9.8 256°95	2°8/12.8 18		
2 1	11 49.86	+ 8 55.9	1.940	2.741	14.3	17.6	2 1	11 42.98	- 7 40.9	2.127	2.877	14.9	20.1
2 11	11 45.17	+ 9 7.0	1.840	2.726	11.1	17.4	2 11	11 39.68	- 7 19.7	2.016	2.861	12.2	19.8
2 21	11 38.03	+ 9 25.2	1.762	2.710	7.4	17.1	2 21	11 34.30	- 6 37.9	1.927	2.846	8.9	19.6
3 2	11 28.95	+ 9 46.4	1.712	2.694	3.5	16.9	3 2	11 27.29	- 5 36.4	1.862	2.830	5.4	19.3
3 12	11 18.85	+10 4.8	1.690	2.679	2.7	16.8	3 12	11 19.37	- 4 19.4	1.826	2.813	2.8	19.1
3 22	11 8.82	+10 15.6	1.697	2.663	6.6	17.0	3 22	11 11.44	- 2 52.9	1.819	2.797	4.9	19.2
4 1	10 59.94	+10 14.9	1.730	2.647	10.7	17.2	4 1	11 4.42	- 1 24.9	1.840	2.780	8.6	19.4
4 11	10 53.09	+10 0.7	1.788	2.631	14.4	17.4	4 11	10 59.08	- 0 2.9	1.886	2.763	12.2	19.6
<b>62551</b>	2000 <i>SP</i> <sub>263</sub>		3 9.8 359°61	3°2/13.5 18			<b>411180</b>	2010 <i>GM</i> <sub>98</sub>		3 9.8 271°15	2°1/ 8.3 17		
2 1	11 38.36	- 9 23.0	1.971	2.726	15.7	18.7	2 1	11 48.53	+ 6 43.5	1.499	2.314	17.1	21.8
2 11	11 36.12	- 8 56.2	1.878	2.724	12.9	18.5	2 11	11 44.79	+ 7 12.2	1.411	2.304	13.3	21.5
2 21	11 31.89	- 8 6.4	1.806	2.724	9.5	18.3	2 21	11 38.12	+ 7 54.3	1.344	2.295	8.8	21.2
3 2	11 26.14	- 6 54.9	1.758	2.723	5.9	18.1	3 2	11 29.11	+ 8 43.9	1.301	2.285	4.0	20.9
3 12	11 19.66	- 5 26.7	1.738	2.723	3.3	17.9	3 12	11 18.86	+ 9 33.0	1.285	2.275	2.9	20.8
3 22	11 13.30	- 3 48.9	1.745	2.724	4.9	18.0	3 22	11 8.74	+10 13.3	1.296	2.265	7.7	21.1
4 1	11 7.95	- 2 10.4	1.780	2.725	8.4	18.2	4 1	11 0.10	+10 38.5	1.331	2.255	12.6	21.3
4 11	11 4.28	- 0 39.3	1.840	2.727	12.0	18.4	4 11	10 53.98	+10 45.0	1.388	2.245	16.9	21.6
<b>302034</b>	2000 <i>SA</i> <sub>285</sub>		3 9.8 135°54	3°0/12.4 18			<b>307488</b>	2002 <i>XL</i> <sub>62</sub>		3 9.8 161°51	2°0/11.9 18		
2 1	11 49.10	- 5 35.7	1.785	2.545	16.9	20.7	2 1	11 46.17	- 4 37.5	2.111	2.869	14.7	20.7
2 11	11 44.57	- 5 41.8	1.702	2.554	13.7	20.5	2 11	11 41.96	- 4 21.5	2.021	2.874	11.8	20.5
2 21	11 37.57	- 5 28.6	1.639	2.563	9.9	20.3	2 21	11 35.67	- 3 48.2	1.952	2.879	8.4	20.3
3 2	11 28.70	- 4 57.1	1.602	2.571	5.8	20.0	3 2	11 27.84	- 2 59.7	1.910	2.883	4.6	20.1
3 12	11 18.94	- 4 11.5	1.592	2.579	3.1	19.9	3 12	11 19.25	- 2 0.3	1.896	2.886	2.0	19.9
3 22	11 9.43	- 3 17.8	1.610	2.587	5.5	20.0	3 22	11 10.83	- 0 56.0	1.912	2.889	4.7	20.1
4 1	11 1.23	- 2 23.1	1.655	2.594	9.5	20.3	4 1	11 3.46	+ 0 6.6	1.956	2.892	8.4	20.3
4 11	10 55.18	- 1 34.4	1.725	2.600	13.2	20.5	4 11	10 57.84	+ 1 1.9	2.025	2.894	11.8	20.6
<b>268518</b>	2005 <i>YW</i> <sub>106</sub>		3 9.8 74°72	0°7/10.5 18			<b>59215</b>	1999 <i>BC</i> <sub>15</sub>		3 9.8 253°43	2°8/ 7.3 18		
2 1	11 45.33	+ 0 0.0	1.878	2.664	15.3	21.7	2 1	11 45.41	+ 6 25.2	1.591	2.408	16.2	19.0
2 11	11 41.50	+ 0 14.8	1.797	2.671	12.0	21.5	2 11	11 42.21	+ 7 32.0	1.502	2.398	12.5	18.7
2 21	11 35.44	+ 0 44.6	1.738	2.678	8.2	21.3	2 21	11 36.32	+ 8 55.1	1.435	2.387	8.3	18.4
3 2	11 27.72	+ 1 26.3	1.704	2.684	3.9	21.1	3 2	11 28.28	+10 27.4	1.394	2.377	4.0	18.2
3 12	11 19.23	+ 2 14.7	1.698	2.691	1.0	20.9	3 12	11 19.12	+11 58.7	1.380	2.366	3.8	18.1
3 22	11 10.97	+ 3 3.6	1.720	2.698	5.2	21.2	3 22	11 10.04	+13 18.8	1.392	2.355	8.2	18.3
4 1	11 3.90	+ 3 46.8	1.770	2.704	9.3	21.4	4 1	11 2.29	+14 19.5	1.431	2.344	12.7	18.6
4 11	10 58.75	+ 4 19.7	1.844	2.711	12.9	21.7	4 11	10 56.84	+14 56.7	1.490	2.332	16.8	18.8
<b>271601</b>	2004 <i>OC</i> <sub>6</sub>		3 9.8 197°43	5°7/ 3.2 17			<b>167005</b>	2003 <i>PY</i> <sub>8</sub>		3 9.8 237°16	0°9/10.6 17		
2 1	11 47.10	+19 0.0	2.247	3.061	12.1	21.0	2 1	11 47.99	- 0 44.6	1.931	2.707	15.2	21.1
2 11	11 42.64	+20 16.5	2.170	3.058	9.5	20.8	2 11	11 43.79	- 0 26.9	1.826	2.693	12.2	20.9
2 21	11 36.10	+21 34.4	2.118	3.055	7.1	20.7	2 21	11 37.17	+ 0 7.2	1.742	2.679	8.4	20.6
3 2	11 28.00	+22 46.3	2.093	3.052	5.7	20.6	3 2	11 28.63	+ 0 55.1	1.684	2.664	4.1	20.3
3 12	11 19.16	+23 44.5	2.098	3.048	6.6	20.6	3 12	11 19.02	+ 1 52.0	1.655	2.648	1.1	20.1
3 22	11 10.51	+24 23.7	2.130	3.044	8.9	20.8	3 22	11 9.40	+ 2 51.1	1.655	2.631	5.4	20.3
4 1	11 2.94	+24 41.2	2.187	3.039	11.6	20.9	4 1	11 0.85	+ 3 45.8	1.682	2.614	9.9	20.6
4 11	10 57.15	+24 37.1	2.267	3.033	14.1	21.1	4 11	10 54.26	+ 4 29.9	1.734	2.596	13.8	20.8
<b>147554</b>	2004 <i>EE</i> <sub>96</sub>		3 9.8 62°30	4°3/ 4.9 18			<b>378768</b>	2008 <i>RQ</i> <sub>140</sub>		3 9.8 121°81	1°3/11.2 17		
2 1	11 41.58	+ 7 24.2	1.622	2.447	15.6	19.3	2 1	11 44.85	- 2 21.6	2.183	2.951	14.0	21.5
2 11	11 38.98	+ 9 39.3	1.554	2.455	11.8	19.1	2 11	11 40.83	- 2 5.2	2.098	2.959	11.1	21.4
2 21	11 33.95	+12 11.1	1.510	2.464	7.7	18.9	2 21	11 34.85	- 1 33.9	2.035	2.968	7.7	21.2
3 2	11 27.10	+14 48.0	1.493	2.473	4.6	18.7	3 2	11 27.45	- 0 50.2	1.999	2.976	4.0	20.9
3 12	11 19.42	+17 16.1	1.506	2.481	5.6	18.8	3 12	11 19.39	+ 0 1.4	1.992	2.984	1.4	20.8
3 22	11 11.98	+19 23.1	1.547	2.490	9.3	19.0	3 22	11 11.52	+ 0 55.6	2.014	2.992	4.5	21.0
4 1	11 5.87	+21 1.1	1.613	2.500	13.2	19.3	4 1	11 4.67	+ 1 46.5	2.064	2.999	8.1	21.2
4 11	11 1.85	+22 7.1	1.700	2.509	16.5	19.5	4 11	10 59.48	+ 2 29.4	2.140	3.006	11.4	21.4
<b>337421</b>	2001 <i>QY</i> <sub>333</sub>		3 9.8 125°58	2°0/ 7.2 17			<b>31983</b>	2000 <i>HS</i> <sub>21</sub>		3 9.8 270°05	6°1/15.6 18		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>97803</b>	2000 <i>OQ</i> <sub>6</sub>		3 9.8 236°99	1.3/10.9	18		<b>76234</b>	2000 <i>EQ</i> <sub>79</sub>		3 9.8 189°14	1.5/8.2	18	
2 1	11 47.25	- 2 12.4	1.846	2.621	15.9	20.4	2 1	11 44.47	+ 6 17.9	2.318	3.113	12.4	19.8
2 11	11 43.33	- 1 51.0	1.742	2.608	12.7	20.1	2 11	11 40.48	+ 6 54.7	2.229	3.113	9.6	19.6
2 21	11 36.92	- 1 11.0	1.659	2.594	8.9	19.9	2 21	11 34.61	+ 7 40.6	2.165	3.112	6.3	19.4
3 2	11 28.54	- 0 14.5	1.602	2.580	4.5	19.6	3 2	11 27.36	+ 8 31.5	2.128	3.112	2.8	19.2
3 12	11 19.06	+ 0 53.0	1.573	2.565	1.4	19.3	3 12	11 19.46	+ 9 21.8	2.121	3.110	2.1	19.1
3 22	11 9.56	+ 2 4.4	1.572	2.549	5.5	19.6	3 22	11 11.70	+10 6.2	2.143	3.109	5.4	19.4
4 1	11 1.17	+ 3 11.8	1.599	2.533	10.1	19.8	4 1	11 4.87	+10 40.5	2.193	3.108	8.8	19.6
4 11	10 54.82	+ 4 8.3	1.650	2.516	14.2	20.0	4 11	10 59.62	+11 1.8	2.268	3.106	11.9	19.8
<b>251565</b>	2009 <i>DQ</i> <sub>130</sub>		3 9.8 221°06	0°3/10.1	16		<b>240595</b>	2004 <i>TQ</i> <sub>349</sub>		3 9.8 129°29	2°5/7.6	18	
2 1	11 48.12	+ 1 1.1	1.899	2.682	15.2	21.6	2 1	11 50.78	+ 8 0.4	1.857	2.658	14.9	21.1
2 11	11 43.83	+ 1 17.3	1.802	2.675	12.0	21.3	2 11	11 45.66	+ 8 49.0	1.788	2.674	11.4	20.9
2 21	11 37.15	+ 1 48.3	1.728	2.668	8.2	21.1	2 21	11 38.17	+ 9 47.2	1.741	2.689	7.5	20.7
3 2	11 28.59	+ 2 30.8	1.679	2.660	3.8	20.8	3 2	11 28.96	+10 48.8	1.722	2.704	3.6	20.5
3 12	11 19.07	+ 3 19.7	1.659	2.652	0.9	20.6	3 12	11 19.04	+11 46.0	1.732	2.718	3.2	20.5
3 22	11 9.62	+ 4 8.6	1.668	2.643	5.5	20.9	3 22	11 9.48	+12 32.5	1.770	2.731	6.9	20.7
4 1	11 1.33	+ 4 51.3	1.704	2.634	9.9	21.1	4 1	11 1.30	+13 3.5	1.836	2.744	10.7	21.0
4 11	10 55.02	+ 5 22.9	1.764	2.624	13.7	21.3	4 11	10 55.23	+13 17.2	1.925	2.755	14.0	21.2
<b>69689</b>	1998 <i>HV</i> <sub>28</sub>		3 9.8 195°96	0°3/10.1	18		<b>277238</b>	2005 <i>RD</i> <sub>8</sub>		3 9.8 78°84	0°4/10.2	18	
2 1	11 45.86	- 0 37.3	1.955	2.736	14.9	20.5	2 1	11 47.91	- 1 27.8	1.994	2.765	15.0	21.3
2 11	11 41.96	+ 0 3.4	1.862	2.734	11.8	20.3	2 11	11 43.06	- 0 34.9	1.938	2.804	11.6	21.2
2 21	11 35.82	+ 1 1.5	1.791	2.731	8.0	20.0	2 21	11 36.20	+ 0 33.8	1.905	2.842	7.8	21.0
3 2	11 27.97	+ 2 13.2	1.747	2.728	3.7	19.7	3 2	11 27.99	+ 1 53.4	1.899	2.879	3.6	20.8
3 12	11 19.25	+ 3 32.1	1.731	2.724	0.9	19.5	3 12	11 19.32	+ 3 16.9	1.923	2.916	0.8	20.7
3 22	11 10.65	+ 4 50.7	1.745	2.720	5.4	19.8	3 22	11 11.11	+ 4 36.8	1.977	2.952	4.9	21.0
4 1	11 3.16	+ 6 1.5	1.786	2.715	9.6	20.1	4 1	11 4.16	+ 5 47.0	2.060	2.987	8.6	21.3
4 11	10 57.53	+ 6 58.8	1.852	2.710	13.3	20.3	4 11	10 59.07	+ 6 43.0	2.168	3.022	11.8	21.6
<b>168050</b>	2006 <i>BD</i> <sub>56</sub>		3 9.8 234°43	0°9/10.5	18		<b>6011</b>	Tozzi		3 9.8 227°16	0°5/10.4	18	
2 1	11 49.00	- 0 3.3	1.773	2.556	16.2	21.0	2 1	11 44.58	- 0 17.2	2.277	3.051	13.3	17.9
2 11	11 44.75	+ 0 6.3	1.674	2.546	12.9	20.7	2 11	11 40.69	+ 0 8.8	2.175	3.043	10.5	17.7
2 21	11 37.91	+ 0 32.0	1.596	2.535	8.9	20.4	2 21	11 34.85	+ 0 48.8	2.097	3.034	7.1	17.4
3 2	11 28.99	+ 1 11.4	1.543	2.523	4.3	20.1	3 2	11 27.51	+ 1 40.0	2.045	3.025	3.4	17.2
3 12	11 18.95	+ 1 59.3	1.518	2.511	1.1	19.9	3 12	11 19.41	+ 2 37.7	2.023	3.016	0.8	17.0
3 22	11 8.94	+ 2 49.2	1.522	2.499	5.8	20.2	3 22	11 11.37	+ 3 36.3	2.030	3.006	4.7	17.2
4 1	11 0.13	+ 3 34.2	1.552	2.486	10.4	20.4	4 1	11 4.22	+ 4 30.0	2.065	2.995	8.4	17.4
4 11	10 53.49	+ 4 8.5	1.606	2.472	14.5	20.6	4 11	10 58.66	+ 5 14.1	2.126	2.985	11.8	17.6
<b>128728</b>	2004 <i>RB</i> <sub>144</sub>		3 9.8 129°59	2°1/7.5	18		<b>84</b>	Klio		3 9.8 191°47	2°0/11.6	18	
2 1	11 43.82	+ 6 20.9	2.049	2.853	13.5	20.2	2 1	11 50.55	- 3 1.3	2.165	2.919	14.5	14.1
2 11	11 40.18	+ 7 21.4	1.970	2.858	10.4	20.0	2 11	11 45.38	- 3 3.9	2.066	2.918	11.6	13.9
2 21	11 34.50	+ 8 33.2	1.914	2.864	6.8	19.8	2 21	11 38.01	- 2 51.9	1.989	2.915	8.2	13.7
3 2	11 27.32	+ 9 50.5	1.886	2.869	3.1	19.6	3 2	11 28.95	- 2 26.8	1.939	2.912	4.5	13.5
3 12	11 19.45	+11 6.0	1.887	2.874	2.8	19.6	3 12	11 19.02	- 1 51.9	1.918	2.909	2.0	13.3
3 22	11 11.78	+12 12.6	1.916	2.879	6.3	19.8	3 22	11 9.17	- 1 11.9	1.927	2.904	4.8	13.5
4 1	11 5.18	+13 4.9	1.973	2.883	9.9	20.0	4 1	11 0.38	- 0 32.2	1.965	2.898	8.6	13.7
4 11	10 0.32	+13 39.8	2.053	2.888	13.1	20.2	4 11	10 53.42	+ 0 2.1	2.029	2.892	12.1	13.9
<b>383667</b>	2007 <i>TY</i> <sub>167</sub>		3 9.8 78°38	1°9/8.0	18		<b>364226</b>	2006 <i>SQ</i> <sub>31</sub>		3 9.8 234°24	0°2/9.7	17	
2 1	11 47.60	+ 8 39.3	2.190	2.989	12.9	20.9	2 1	11 49.34	+ 2 37.0	2.203	2.980	13.6	22.1
2 11	11 42.83	+ 8 59.7	2.119	3.004	9.9	20.8	2 11	11 44.53	+ 2 56.8	2.093	2.964	10.7	21.8
2 21	11 36.09	+ 9 26.4	2.071	3.019	6.5	20.6	2 21	11 37.52	+ 3 28.7	2.007	2.947	7.2	21.6
3 2	11 27.97	+ 9 55.3	2.051	3.034	3.0	20.4	3 2	11 28.77	+ 4 9.6	1.948	2.930	3.2	21.3
3 12	11 19.29	+10 21.3	2.060	3.048	2.4	20.4	3 12	11 19.06	+ 4 54.8	1.918	2.911	1.0	21.1
3 22	11 10.91	+10 40.2	2.099	3.063	5.7	20.6	3 22	11 9.33	+ 5 38.7	1.919	2.892	5.3	21.4
4 1	11 3.65	+10 48.8	2.165	3.078	9.0	20.8	4 1	11 0.54	+ 6 16.1	1.949	2.872	9.3	21.6
4 11	10 58.14	+10 45.5	2.256	3.092	12.0	21.0	4 11	10 53.51	+ 6 42.8	2.003	2.851	12.8	21.7
<b>329489</b>	2002 <i>QT</i> <sub>116</sub>		3 9.8 162°79	0°5/10.3	16		<b>124746</b>	2001 <i>SN</i> <sub>211</sub>		3 9.8 56°96	0°5/9.5	18	
2 1	11 49.69	+ 1 6.2	2.007	2.784	14.7	22.4	2 1	11 47.12	+ 2 1.7	1.270	2.087	19.5	19.9
2 11	11 44.78	+ 1 13.5	1.920	2.789	11.6	22.2	2 11	11 43.77	+ 2 33.3	1.210	2.102	15.1	19.7
2 21	11 37.60	+ 1 33.7	1.855	2.793	7.9	21.9	2 21	11 37.37	+ 3 24.3	1.168	2.118	10.0	19.4
3 2	11 28.74	+ 2 4.0	1.817	2.797	3.7	21.7	3 2	11 28.71	+ 4 28.8	1.150	2.134	4.4	19.1
3 12	11 19.06	+ 2 39.7	1.807	2.800	0.9	21.5	3 12	11 19.12	+ 5 37.2	1.157	2.150	1.6	19.0
3 22	11 9.59	+ 3 15.6	1.827	2.803	5.1	21.8	3 22	11 10.03	+ 6 39.8	1.190	2.167	7.1	19.4
4 1	11 1.28	+ 3 46.5	1.875	2.805	9.2	22.0	4 1	11 2.77	+ 7 28.2	1.248	2.183	12.2	19.7
4 11	10 54.91	+ 4 8.3	1.948	2.807	12.7	22.2	4 11	10 58.19	+ 7 57.8	1.326	2.200	16.5	20.0
<b>416855</b>	2005 <i>MX</i> <sub>17</sub>		3 9.8 238°00	5°0/4.5	17		<b>194410</b>	2001 <i>VA</i> <sub>38</sub>		3 9.8 43°89	1°5/8.8	18	
2 1	11 44.82	+13 15.1	1.881	2.702	13.9	21.0	2 1	11 46.43	+ 4 15.9	1.229	2.055	19.4	20.4
2 11	11 41.33	+14 44.2	1.798	2.695	10.7	20.8	2 11	11 43.36	+ 4 50.2	1.168	2.067	15.0	20.1
2 21	11 35.50	+16 22.0	1.738	2.687	7.4	20.6	2 21	11 37.16	+ 5 42.1	1.127	2.080	9.9	19.9
3 2	11 27.85	+17 59.7	1.706	2.679	5.1	20.4	3 2	11 28.64	+ 6 44.6	1.108	2.093	4.3	19.6
3 12	11 19.30	+19 27.6	1.702	2.670	6.0	20.5	3 12	11 19.14	+ 7 47.9	1.115	2.107	2.4	19.5
3 22	11 10.86	+20 37.4	1.725	2.661	9.1	20.6	3 22	11 10.13	+ 8 42.1	1.147	2.121	7.8	19.9
4 1	11 3.59	+21 23.9	1.774	2.652	12.6	20.8	4 1	11 2.98	+ 9 19.8	1.202	2.135	12.8	20.2
4 11	10 58.30	+21 45.3	1.844	2.643	15.7	21.0	4 11	10 58.58	+ 9 37.1	1.278	2.150	17.1	20.5
<b>160115</b>	2000 <i>ST</i> <sub>237</sub>		3 9.8 193°18	2°3/7.4	18		<b>456861</b>	2007 <i>VB</i> <sub>4</sub>		3 9.8 122°20	2°1/11.7	18	
2 1	11 48.19	+ 7 11.0											



EPHEMERIDES

3 9.8

3 9.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>60692</b>	2000 GC <sub>40</sub>		3	9.8 353°54	0°6/ 9.4 18		<b>208185</b>	2000 QW <sub>139</sub>		3	9.9 186°56	2°3/ 6.9 18	
2 1	11 46.26	+ 3 2.2	1.298	2.117	19.0	18.8	2 1	11 46.90	+11 58.7	2.998	3.790	10.0	20.6
2 11	11 43.32	+ 3 23.1	1.221	2.115	14.9	18.5	2 11	11 41.88	+12 24.1	2.908	3.789	7.7	20.5
2 21	11 37.27	+ 4 2.4	1.163	2.114	10.0	18.2	2 21	11 35.31	+12 52.6	2.843	3.788	5.1	20.3
3 2	11 28.78	+ 4 54.9	1.129	2.113	4.4	17.9	3 2	11 27.63	+13 20.8	2.808	3.787	2.8	20.1
3 12	11 19.08	+ 5 52.4	1.120	2.112	1.7	17.7	3 12	11 19.45	+13 44.5	2.804	3.785	2.8	20.1
3 22	11 9.63	+ 6 45.3	1.136	2.112	7.4	18.0	3 22	11 11.40	+14 0.8	2.830	3.783	5.1	20.3
4 1	11 1.86	+ 7 25.5	1.176	2.112	12.7	18.3	4 1	11 4.13	+14 7.1	2.886	3.780	7.7	20.4
4 11	10 56.81	+ 7 47.7	1.236	2.113	17.3	18.6	4 11	10 58.15	+14 2.4	2.967	3.777	10.1	20.6
<b>436979</b>	2012 TW <sub>196</sub>		3	9.8 131°94	2°9/ 6.6 17		<b>348238</b>	2004 SL <sub>18</sub>		3	9.9 197°89	3°7/ 5.3 17	
2 1	11 45.80	+12 14.5	2.524	3.327	11.3	21.6	2 1	11 45.94	+13 22.2	2.501	3.306	11.3	21.5
2 11	11 41.28	+12 50.0	2.446	3.333	8.7	21.4	2 11	11 41.54	+14 27.1	2.415	3.303	8.7	21.3
2 21	11 35.02	+13 29.5	2.392	3.339	5.8	21.3	2 21	11 35.30	+15 37.1	2.353	3.299	6.0	21.1
3 2	11 27.51	+14 8.4	2.367	3.345	3.3	21.1	3 2	11 27.70	+16 46.3	2.320	3.294	3.9	21.0
3 12	11 19.46	+14 41.5	2.371	3.351	3.4	21.1	3 12	11 19.43	+17 48.3	2.318	3.289	4.4	21.0
3 22	11 11.62	+15 5.0	2.405	3.356	6.0	21.3	3 22	11 11.28	+18 37.8	2.344	3.283	6.9	21.1
4 1	11 4.71	+15 16.1	2.467	3.361	8.9	21.5	4 1	11 4.03	+19 11.1	2.399	3.276	9.8	21.3
4 11	10 59.30	+15 13.7	2.553	3.367	11.4	21.7	4 11	10 58.30	+19 27.0	2.476	3.269	12.4	21.5
<b>458814</b>	2011 SY <sub>256</sub>		3	9.8 107°47	5°2/14.4 18		<b>521137</b>	2015 FD <sub>43</sub>		3	9.9 314°84	3°8/14.2 17	
2 1	11 51.78	-11 11.7	1.840	2.565	17.7	21.8	2 1	11 39.24	-10 59.7	2.091	2.831	15.3	20.9
2 11	11 46.52	-11 38.1	1.766	2.588	14.7	21.6	2 11	11 36.84	-10 40.8	1.983	2.818	12.8	20.7
2 21	11 38.80	-11 42.6	1.712	2.610	11.2	21.4	2 21	11 32.44	-9 58.8	1.895	2.804	9.7	20.5
3 2	11 29.28	-11 24.6	1.681	2.632	7.7	21.3	3 2	11 26.50	-8 54.2	1.832	2.791	6.4	20.2
3 12	11 18.98	-10 46.5	1.678	2.653	5.3	21.2	3 12	11 19.74	-7 30.5	1.796	2.778	3.9	20.1
3 22	11 9.03	-9 53.8	1.704	2.673	6.2	21.3	3 22	11 13.00	-5 54.0	1.788	2.765	5.1	20.1
4 1	11 0.48	-8 53.8	1.756	2.692	9.2	21.5	4 1	11 7.16	-4 13.1	1.808	2.753	8.4	20.3
4 11	10 54.10	-7 54.3	1.834	2.711	12.5	21.7	4 11	11 2.97	-2 36.3	1.854	2.741	11.9	20.5
<b>375821</b>	2009 UC <sub>47</sub>		3	9.8 58°53	2°1/ 7.9 18		<b>266329</b>	2007 DB <sub>24</sub>		3	9.9 0°63	0°0/ 9.7 17	
2 1	11 46.60	+ 7 22.1	1.729	2.541	15.3	21.2	2 1	11 44.37	+ 1 59.5	1.590	2.396	16.7	20.6
2 11	11 42.56	+ 7 58.6	1.666	2.557	11.7	21.0	2 11	11 41.27	+ 2 15.0	1.509	2.395	13.1	20.4
2 21	11 36.16	+ 8 45.1	1.624	2.574	7.7	20.8	2 21	11 35.59	+ 2 46.3	1.448	2.394	8.8	20.1
3 2	11 28.08	+ 9 35.7	1.609	2.592	3.5	20.5	3 2	11 27.95	+ 3 29.5	1.411	2.394	4.0	19.8
3 12	11 19.32	+10 23.2	1.621	2.609	2.8	20.5	3 12	11 19.35	+ 4 18.4	1.402	2.395	1.1	19.6
3 22	11 10.96	+11 1.3	1.661	2.627	6.7	20.8	3 22	11 10.96	+ 5 5.6	1.419	2.396	6.1	19.9
4 1	11 3.98	+11 25.3	1.727	2.644	10.6	21.1	4 1	11 3.92	+ 5 44.2	1.461	2.397	10.8	20.2
4 11	10 59.08	+11 33.2	1.815	2.662	14.0	21.3	4 11	10 59.09	+ 6 9.4	1.526	2.399	14.8	20.4
<b>333712</b>	2009 DW <sub>16</sub>		3	9.8 129°67	2°8/13.2 18		<b>284376</b>	2006 SP <sub>286</sub>		3	9.9 111°81	5°8/17.6 17	
2 1	11 48.78	- 7 13.1	3.005	3.722	11.6	20.7	2 1	11 45.02	-18 45.4	2.848	3.504	13.4	21.2
2 11	11 43.26	- 7 32.0	2.916	3.739	9.5	20.5	2 11	11 40.59	-19 12.6	2.760	3.522	11.5	21.0
2 21	11 36.18	- 7 38.9	2.851	3.755	7.0	20.4	2 21	11 34.54	-19 21.5	2.693	3.539	9.5	20.9
3 2	11 28.01	- 7 34.3	2.813	3.771	4.5	20.2	3 2	11 27.32	-19 11.3	2.649	3.556	7.5	20.8
3 12	11 19.34	- 7 19.8	2.806	3.786	2.9	20.1	3 12	11 19.55	-18 42.8	2.633	3.573	6.0	20.7
3 22	11 10.83	- 6 58.3	2.830	3.801	3.9	20.2	3 22	11 11.94	-17 58.9	2.645	3.589	5.9	20.8
4 1	11 3.12	- 6 33.0	2.885	3.815	6.3	20.4	4 1	11 5.14	-17 3.9	2.685	3.605	7.2	20.9
4 11	10 56.72	- 6 7.8	2.967	3.829	8.7	20.6	4 11	10 59.71	-16 3.6	2.751	3.620	9.1	21.0
<b>60010</b>	1999 TK <sub>18</sub>		3	9.8 216°12	2°3/12.7 18		<b>131072</b>	2000 YH <sub>01</sub>		3	9.9 150°29	0°0/ 9.7 18	
2 1	11 45.78	- 6 23.3	2.859	3.590	11.8	20.7	2 1	11 48.82	+ 1 16.3	1.995	2.775	14.7	20.9
2 11	11 41.23	- 6 16.9	2.745	3.579	9.6	20.5	2 11	11 44.09	+ 1 45.1	1.913	2.785	11.5	20.7
2 21	11 35.03	- 5 56.9	2.654	3.568	7.0	20.3	2 21	11 37.14	+ 2 28.0	1.853	2.793	7.7	20.5
3 2	11 27.57	- 5 24.1	2.590	3.556	4.2	20.1	3 2	11 28.55	+ 3 21.1	1.820	2.802	3.5	20.3
3 12	11 19.44	- 4 41.2	2.557	3.543	2.3	19.9	3 12	11 19.21	+ 4 18.7	1.816	2.809	0.9	20.1
3 22	11 11.33	- 3 51.7	2.554	3.529	3.9	20.0	3 22	11 10.11	+ 5 14.3	1.842	2.816	5.3	20.4
4 1	11 3.91	- 3 0.4	2.581	3.514	6.8	20.2	4 1	11 2.19	+ 6 2.0	1.895	2.822	9.3	20.7
4 11	10 57.77	- 2 11.7	2.635	3.499	9.6	20.4	4 11	10 56.18	+ 6 37.7	1.974	2.827	12.8	20.9
<b>14929</b>	1994 WP <sub>1</sub>		3	9.9 37°90	2°9/12.1 18		<b>11606</b>	Almary		3	9.9 156°00	0°8/10.6 18	
2 1	11 45.35	- 4 11.7	1.422	2.212	19.1	18.1	2 1	11 49.48	+ 0 1.0	2.030	2.802	14.7	21.6
2 11	11 42.17	- 4 20.8	1.353	2.225	15.3	17.8	2 11	11 44.59	+ 0 11.2	1.943	2.809	11.6	21.4
2 21	11 36.23	- 4 8.1	1.304	2.238	10.9	17.6	2 21	11 37.48	+ 0 35.2	1.880	2.816	7.9	21.2
3 2	11 28.21	- 3 35.3	1.277	2.251	6.1	17.4	3 2	11 28.71	+ 1 10.2	1.842	2.822	3.8	20.9
3 12	11 19.28	- 2 47.8	1.276	2.266	2.9	17.2	3 12	11 19.17	+ 1 51.6	1.834	2.827	1.0	20.7
3 22	11 10.72	- 1 53.1	1.301	2.281	6.0	17.4	3 22	11 9.83	+ 2 34.0	1.855	2.832	5.0	21.0
4 1	11 3.74	- 0 59.8	1.351	2.296	10.5	17.7	4 1	11 1.66	+ 3 11.8	1.905	2.836	9.0	21.3
4 11	10 59.18	- 0 15.3	1.423	2.312	14.6	18.0	4 11	10 55.38	+ 3 40.6	1.979	2.839	12.5	21.5
<b>330671</b>	2008 GV <sub>130</sub>		3	9.9 252°49	1°7/ 7.9 17		<b>243181</b>	2007 TC <sub>169</sub>		3	9.9 16°43	0°7/ 9.2 17	
2 1	11 45.08	+ 5 33.3	2.201	2.997	13.0	22.0	2 1	11 46.99	+ 5 25.2	2.181	2.973	13.2	20.6
2 11	11 41.26	+ 6 27.1	2.094	2.977	10.1	21.7	2 11	11 42.54	+ 5 33.9	2.093	2.973	10.3	20.4
2 21	11 35.36	+ 7 33.5	2.010	2.957	6.7	21.5	2 21	11 36.05	+ 5 51.3	2.028	2.973	6.8	20.2
3 2	11 27.81	+ 8 47.7	1.954	2.937	3.0	21.2	3 2	11 28.06	+ 6 14.0	1.990	2.973	3.0	20.0
3 12	11 19.36	+10 3.1	1.927	2.916	2.4	21.1	3 12	11 19.36	+ 6 37.7	1.981	2.973	1.4	19.8
3 22	11 10.89	+11 12.7	1.930	2.894	6.1	21.3	3 22	11 10.82	+ 6 57.8	2.002	2.973	5.2	20.1
4 1	11 3.30	+12 10.3	1.961	2.872	9.9	21.5	4 1	11 3.33	+ 7 10.7	2.050	2.973	8.9	20.3
4 11	10 57.38	+12 51.9	2.016	2.849	13.3	21.7	4 11	10 57.56	+ 7 13.5	2.123	2.974	12.1	20.5
<b>466545</b>	2014 SM <sub>233</sub>		3	9.9 58°08	0°2/ 9.6 18		<b>254642</b>	2005 JL <sub>114</sub>		3	9.9 2°49	2°7/ 7.9 18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>431153</b>	2006 QE <sub>162</sub>		3 9.9 187°43	1°3/ 8.2 17			<b>372458</b>	2009 SR <sub>135</sub>		3 9.9 155°84	2°4/ 7.4 16		
2 1	11 43.37	+ 6 15.2	2.835	3.623	10.6	22.1	2 1	11 50.06	+10 25.0	2.311	3.106	12.5	21.8
2 11	11 39.29	+ 6 54.0	2.743	3.622	8.1	22.0	2 11	11 44.73	+10 54.0	2.230	3.113	9.6	21.6
2 21	11 33.68	+ 7 40.6	2.676	3.621	5.3	21.8	2 21	11 37.41	+11 28.4	2.174	3.119	6.3	21.4
3 2	11 26.94	+ 8 31.2	2.637	3.620	2.4	21.6	3 2	11 28.65	+12 3.5	2.145	3.125	3.2	21.3
3 12	11 19.67	+ 9 21.4	2.629	3.618	1.8	21.5	3 12	11 19.25	+12 34.1	2.147	3.131	3.0	21.2
3 22	11 12.51	+10 6.8	2.651	3.616	4.6	21.7	3 22	11 10.08	+12 55.7	2.178	3.136	6.0	21.4
4 1	11 6.09	+10 43.8	2.702	3.613	7.5	21.9	4 1	11 2.00	+13 5.4	2.238	3.141	9.3	21.7
4 11	11 0.93	+11 9.7	2.779	3.610	10.1	22.1	4 11	10 55.65	+13 1.8	2.322	3.144	12.2	21.8
<b>337045</b>	1996 RR <sub>18</sub>		3 9.9 179°10	0°1/10.0 17			<b>202782</b>	2007 VM <sub>299</sub>		3 9.9 72°19	2°2/ 7.2 18		
2 1	11 43.63	+ 1 22.6	2.321	3.103	12.8	21.7	2 1	11 41.96	+ 6 53.8	2.176	2.981	12.8	19.9
2 11	11 39.85	+ 1 45.6	2.230	3.103	10.0	21.5	2 11	11 38.60	+ 8 2.3	2.104	2.994	9.7	19.7
2 21	11 34.22	+ 2 20.5	2.162	3.103	6.7	21.3	2 21	11 33.39	+ 9 21.0	2.057	3.007	6.3	19.5
3 2	11 27.24	+ 3 4.3	2.122	3.103	3.1	21.1	3 2	11 26.85	+10 43.6	2.038	3.020	3.0	19.4
3 12	11 19.59	+ 3 52.4	2.110	3.103	0.8	20.9	3 12	11 19.74	+12 3.2	2.048	3.033	2.9	19.4
3 22	11 12.08	+ 4 39.8	2.128	3.103	4.6	21.2	3 22	11 12.85	+13 13.1	2.087	3.046	6.1	19.6
4 1	11 5.48	+ 5 21.4	2.174	3.103	8.1	21.4	4 1	11 6.96	+14 8.3	2.153	3.059	9.4	19.8
4 11	11 0.42	+ 5 53.4	2.245	3.103	11.3	21.6	4 11	11 2.67	+14 46.1	2.243	3.072	12.3	20.0
<b>48776</b>	1997 QT		3 9.9 265°68	0°2/10.1 18			<b>75315</b>	1999 XK <sub>42</sub>		3 9.9 229°03	3°7/ 6.5 18		
2 1	11 42.53	- 0 9.3	2.289	3.068	13.1	20.0	2 1	11 49.21	+11 34.9	1.879	2.689	14.3	19.7
2 11	11 39.18	+ 0 28.7	2.180	3.051	10.3	19.8	2 11	11 44.75	+12 22.9	1.790	2.681	11.1	19.5
2 21	11 33.91	+ 1 21.8	2.094	3.034	7.0	19.5	2 21	11 37.81	+13 18.6	1.724	2.672	7.5	19.3
3 2	11 27.16	+ 2 27.0	2.035	3.016	3.3	19.3	3 2	11 28.96	+14 15.4	1.684	2.663	4.2	19.0
3 12	11 19.60	+ 3 39.0	2.005	2.998	0.8	19.0	3 12	11 19.14	+15 5.4	1.673	2.653	4.5	19.0
3 22	11 12.04	+ 4 51.6	2.005	2.980	4.8	19.3	3 22	11 9.45	+15 42.0	1.690	2.643	7.9	19.2
4 1	11 5.31	+ 5 58.5	2.033	2.962	8.6	19.5	4 1	11 1.00	+16 0.7	1.733	2.632	11.7	19.4
4 11	11 0.10	+ 6 54.3	2.086	2.943	12.0	19.7	4 11	10 54.63	+16 0.0	1.799	2.621	15.2	19.6
<b>518120</b>	2016 CO <sub>287</sub>		3 9.9 169°70	3°9/ 5.1 17			<b>89421</b>	2001 WS <sub>29</sub>		3 9.9 135°74	0°9/ 8.8 18		
2 1	11 44.20	+11 49.3	2.249	3.059	12.3	21.2	2 1	11 46.25	+ 3 42.9	2.275	3.060	12.9	20.3
2 11	11 40.38	+13 14.9	2.170	3.062	9.4	21.0	2 11	11 41.80	+ 4 29.2	2.196	3.073	10.0	20.1
2 21	11 34.62	+14 48.0	2.117	3.065	6.3	20.8	2 21	11 35.47	+ 5 26.9	2.142	3.086	6.5	19.9
3 2	11 27.42	+16 21.4	2.092	3.067	4.0	20.7	3 2	11 27.78	+ 6 31.3	2.116	3.099	2.8	19.7
3 12	11 19.55	+17 47.2	2.097	3.069	4.7	20.7	3 12	11 19.49	+ 7 36.5	2.119	3.110	1.6	19.6
3 22	11 11.84	+18 58.7	2.131	3.070	7.5	20.9	3 22	11 11.42	+ 8 36.6	2.153	3.121	5.2	19.9
4 1	11 5.11	+19 51.4	2.192	3.071	10.5	21.1	4 1	11 4.38	+ 9 26.6	2.215	3.132	8.6	20.1
4 11	11 0.01	+20 23.4	2.276	3.072	13.2	21.3	4 11	10 58.96	+10 3.2	2.302	3.142	11.7	20.3
<b>309826</b>	2009 BO <sub>157</sub>		3 9.9 13°56	0°9/ 9.1 18			<b>432772</b>	2011 FW <sub>29</sub>		3 9.9 325°58	0°0/ 9.9 17		
2 1	11 43.53	+ 3 3.4	1.258	2.085	19.1	20.7	2 1	11 49.00	+ 4 38.1	1.606	2.411	16.6	20.7
2 11	11 41.19	+ 3 34.8	1.188	2.087	14.9	20.4	2 11	11 45.08	+ 4 15.4	1.509	2.394	13.2	20.5
2 21	11 35.83	+ 4 25.4	1.137	2.090	9.9	20.1	2 21	11 38.34	+ 4 2.3	1.432	2.378	8.9	20.2
3 2	11 28.14	+ 5 29.4	1.109	2.093	4.3	19.8	3 2	11 29.31	+ 3 56.5	1.380	2.363	4.1	19.8
3 12	11 19.34	+ 6 37.3	1.106	2.098	1.9	19.7	3 12	11 19.03	+ 3 54.0	1.355	2.348	1.1	19.6
3 22	11 10.88	+ 7 39.0	1.127	2.103	7.5	20.0	3 22	11 8.76	+ 3 50.3	1.357	2.334	6.3	19.9
4 1	11 4.10	+ 8 25.7	1.172	2.109	12.7	20.3	4 1	10 59.83	+ 3 41.2	1.384	2.320	11.2	20.1
4 11	10 59.97	+ 8 52.5	1.238	2.116	17.2	20.6	4 11	10 53.28	+ 3 23.3	1.435	2.308	15.5	20.4
<b>341348</b>	2007 TC <sub>51</sub>		3 9.9 192°01	0°3/10.2 17			<b>34854</b>	Paquifrutos		3 9.9 68°56	6°2/17.8 18		
2 1	11 43.86	+ 0 49.8	2.380	3.157	12.7	21.6	2 1	11 42.58	-18 44.5	2.291	2.970	15.7	18.2
2 11	11 39.98	+ 1 11.5	2.286	3.156	9.9	21.4	2 11	11 39.08	-18 53.2	2.211	2.990	13.5	18.1
2 21	11 34.30	+ 1 45.3	2.217	3.156	6.7	21.2	2 21	11 33.71	-18 38.5	2.149	3.010	11.0	17.9
3 2	11 27.27	+ 2 28.2	2.174	3.155	3.1	21.0	3 2	11 27.00	-17 59.7	2.111	3.030	8.4	17.8
3 12	11 19.59	+ 3 16.0	2.160	3.153	0.8	20.8	3 12	11 19.71	-16 59.1	2.099	3.050	6.5	17.7
3 22	11 12.03	+ 4 3.5	2.177	3.152	4.4	21.1	3 22	11 12.64	-15 41.4	2.114	3.070	6.4	17.7
4 1	11 5.35	+ 4 46.0	2.221	3.151	8.0	21.3	4 1	11 6.57	-14 13.3	2.157	3.089	8.0	17.9
4 11	11 0.18	+ 5 19.5	2.291	3.149	11.1	21.5	4 11	11 2.11	-12 42.9	2.226	3.109	10.3	18.1
<b>258332</b>	2001 VW <sub>67</sub>		3 9.9 132°74	2°7/12.6 18			<b>288260</b>	2003 YF <sub>138</sub>		3 9.9 146°41	0°4/ 9.5 18		
2 1	11 47.65	- 6 3.3	2.236	2.980	14.4	21.4	2 1	11 48.52	+ 2 30.2	2.065	2.847	14.2	21.5
2 11	11 42.95	- 6 2.2	2.151	2.993	11.6	21.3	2 11	11 43.78	+ 3 0.7	1.983	2.857	11.0	21.3
2 21	11 36.27	- 5 44.8	2.088	3.006	8.4	21.1	2 21	11 36.91	+ 3 43.8	1.925	2.867	7.3	21.0
3 2	11 28.15	- 5 12.5	2.051	3.018	5.0	20.9	3 2	11 28.46	+ 4 35.6	1.893	2.876	3.2	20.8
3 12	11 19.36	- 4 28.6	2.043	3.030	2.7	20.7	3 12	11 19.31	+ 5 30.3	1.892	2.884	1.1	20.7
3 22	11 10.78	- 3 38.1	2.065	3.041	4.6	20.9	3 22	11 10.39	+ 6 21.9	1.919	2.892	5.3	21.0
4 1	11 3.25	- 2 46.6	2.115	3.052	7.9	21.1	4 1	11 2.62	+ 7 4.9	1.975	2.899	9.1	21.2
4 11	10 57.41	- 1 59.6	2.192	3.062	11.0	21.3	4 11	10 56.69	+ 7 35.6	2.055	2.905	12.5	21.4
<b>296357</b>	2009 FN <sub>23</sub>		3 9.9 297°17	0°5/10.3 17			<b>32497</b>	2000 XF <sub>18</sub>		3 9.9 240°95	4°2/13.6 18		
2 1	11 44.36	+ 0 7.8	1.531	2.334	17.4	21.2	2 1	11 48.36	- 8 43.1	2.273	3.001	14.6	17.7
2 11	11 41.71	+ 0 25.9	1.426	2.309	13.9	20.9	2 11	11 43.77	- 9 12.6	2.162	2.989	12.2	17.5
2 21	11 36.26	+ 1 3.8	1.340	2.285	9.6	20.6	2 21	11 37.05	- 9 26.4	2.072	2.976	9.3	17.3
3 2	11 28.44	+ 1 59.1	1.278	2.260	4.6	20.2	3 2	11 28.62	- 9 23.7	2.008	2.963	6.2	17.1
3 12	11 19.22	+ 3 5.4	1.242	2.235	1.1	19.9	3 12	11 19.25	- 9 5.7	1.972	2.949	4.2	16.9
3 22	11 9.85	+ 4 14.2	1.233	2.211	6.6	20.2	3 22	11 9.83	- 8 35.6	1.965	2.935	5.4	16.9
4 1	11 1.70	+ 5 16.2	1.248	2.187	11.9	20.4	4 1	11 1.31	- 7 58.3	1.986	2.921	8.4	17.1
4 11	10 55.90	+ 6 3.7	1.286	2.163	16.7	20.6	4 11	10 54.47	- 7 19.5	2.033	2.906	11.6	17.3
<b>286373</b>	2001 XR <sub>220</sub>		3 9.9 63°43	2°6/ 7.1 17			<b>467682</b>	2008 UB <sub>275</sub>		3 9.9 228°26	4°9/16.0 18		
2 1	11 45.11	+10 8.8	2.175	2.982	12.7	20.9	2 1	11 44.45					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>412620</b>	2014 OT <sub>103</sub>		3 9.9 80°39'	2°0/11.3	18		<b>415996</b>	2002 AT <sub>69</sub>		3 9.9 168°70'	4°4/15.4	17	
2 1	11 50.20	- 1 25.9	1.571	2.355	17.8	21.0	2 1	11 47.46	-13 50.6	2.860	3.544	12.8	22.0
2 11	11 45.78	- 1 41.6	1.494	2.364	14.2	20.7	2 11	11 42.49	-13 59.6	2.758	3.550	10.8	21.8
2 21	11 38.60	- 1 40.5	1.436	2.372	9.9	20.5	2 21	11 35.86	-13 52.1	2.678	3.556	8.5	21.7
3 2	11 29.33	- 1 24.3	1.404	2.380	5.2	20.3	3 2	11 27.99	-13 27.6	2.625	3.560	6.1	21.5
3 12	11 19.08	- 0 57.2	1.397	2.389	2.1	20.1	3 12	11 19.51	-12 47.8	2.600	3.564	4.5	21.4
3 22	11 9.14	- 0 25.3	1.419	2.397	5.8	20.3	3 22	11 11.12	-11 56.0	2.605	3.567	4.9	21.5
4 1	11 0.71	+ 0 4.9	1.466	2.406	10.4	20.6	4 1	11 3.52	-10 56.8	2.640	3.569	6.9	21.6
4 11	10 54.69	+ 0 27.9	1.537	2.414	14.4	20.9	4 11	10 57.28	- 9 55.8	2.702	3.570	9.2	21.7
<b>371208</b>	2006 AU <sub>46</sub>		3 9.9 157°49'	4°9/ 3.8	18		<b>456906</b>	2007 VU <sub>239</sub>		3 9.9 120°26'	4°5/ 5.6	18	
2 1	11 45.31	+15 47.4	2.256	3.070	12.1	21.6	2 1	11 51.14	+14 1.1	1.943	2.751	14.0	22.3
2 11	11 41.24	+17 15.3	2.184	3.076	9.3	21.5	2 11	11 45.86	+15 6.2	1.881	2.771	10.7	22.2
2 21	11 35.19	+18 47.1	2.138	3.081	6.6	21.3	2 21	11 38.28	+16 15.6	1.844	2.789	7.3	22.0
3 2	11 27.70	+20 15.2	2.120	3.086	5.0	21.2	3 2	11 29.07	+17 21.4	1.834	2.807	4.8	21.9
3 12	11 19.54	+21 31.9	2.132	3.091	5.8	21.3	3 12	11 19.23	+18 16.0	1.854	2.825	5.3	21.9
3 22	11 11.58	+22 31.1	2.171	3.094	8.3	21.4	3 22	11 9.80	+18 53.7	1.901	2.841	8.2	22.1
4 1	11 4.66	+23 9.4	2.237	3.098	11.1	21.6	4 1	11 1.75	+19 11.4	1.975	2.857	11.3	22.4
4 11	10 59.42	+23 26.1	2.325	3.101	13.6	21.8	4 11	10 55.75	+19 9.3	2.072	2.872	14.2	22.6
<b>39206</b>	2000 XO <sub>20</sub>		3 9.9 180°69'	1°0/11.0	18		<b>17334</b>	2275 T <sub>-2</sub>		3 9.9 17°25'	0°1/ 9.9	18	
2 1	11 47.42	- 1 14.1	2.783	3.535	11.6	20.6	2 1	11 40.56	+ 0 56.6	1.645	2.452	16.2	17.2
2 11	11 42.44	- 1 3.1	2.683	3.537	9.2	20.4	2 11	11 38.14	+ 1 23.4	1.573	2.460	12.6	17.0
2 21	11 35.81	- 0 41.0	2.608	3.538	6.4	20.2	2 21	11 33.41	+ 2 6.9	1.523	2.469	8.5	16.8
3 2	11 27.94	- 0 9.8	2.561	3.538	3.2	20.0	3 2	11 26.97	+ 3 2.6	1.497	2.479	3.8	16.5
3 12	11 19.48	+ 0 27.3	2.545	3.537	1.1	19.8	3 12	11 19.78	+ 4 3.9	1.497	2.490	1.0	16.3
3 22	11 11.12	+ 1 6.3	2.560	3.536	3.8	20.0	3 22	11 12.87	+ 5 3.0	1.525	2.502	5.7	16.7
4 1	11 3.55	+ 1 43.2	2.605	3.534	7.0	20.2	4 1	11 7.22	+ 5 53.0	1.578	2.515	10.0	16.9
4 11	10 57.34	+ 2 14.4	2.677	3.531	9.8	20.4	4 11	11 3.56	+ 6 29.0	1.654	2.529	13.7	17.2
<b>346805</b>	2009 CH <sub>2</sub>		3 9.9 111°21'	1°0/11.1	17		<b>17748</b>	Uedashoji		3 9.9 100°93'	1°6/ 8.4	18	
2 1	11 46.92	- 1 5.0	2.716	3.472	11.8	22.3	2 1	11 49.20	+ 4 32.3	1.679	2.479	16.2	19.4
2 11	11 41.94	- 0 56.1	2.639	3.494	9.3	22.1	2 11	11 44.65	+ 5 24.6	1.615	2.501	12.4	19.2
2 21	11 35.37	- 0 36.4	2.585	3.516	6.4	22.0	2 21	11 37.62	+ 6 30.8	1.574	2.521	8.1	19.0
3 2	11 27.70	- 0 8.1	2.560	3.537	3.2	21.8	3 2	11 28.82	+ 7 44.2	1.558	2.542	3.5	18.7
3 12	11 19.57	+ 0 25.4	2.565	3.557	1.1	21.7	3 12	11 19.30	+ 8 56.5	1.572	2.562	2.4	18.7
3 22	11 11.66	+ 1 0.4	2.601	3.577	3.8	21.9	3 22	11 10.22	+ 9 59.7	1.613	2.581	6.6	19.0
4 1	11 4.64	+ 1 32.9	2.667	3.597	6.8	22.1	4 1	11 2.60	+10 47.7	1.681	2.600	10.8	19.3
4 11	10 59.02	+ 1 59.7	2.759	3.616	9.4	22.3	4 11	10 57.20	+11 17.5	1.772	2.618	14.3	19.5
<b>333003</b>	2011 HP <sub>58</sub>		3 9.9 138°33'	0°0/ 9.7	17		<b>406337</b>	2007 RT <sub>46</sub>		3 9.9 223°25'	1°7/11.5	17	
2 1	11 42.70	- 0 0.0	2.289	3.068	13.1	21.1	2 1	11 46.89	- 4 0.1	1.964	2.728	15.4	22.8
2 11	11 39.14	+ 0 50.1	2.202	3.074	10.2	20.9	2 11	11 42.92	- 3 34.8	1.860	2.718	12.4	22.6
2 21	11 33.76	+ 1 54.8	2.140	3.080	6.8	20.7	2 21	11 36.62	- 2 50.1	1.777	2.707	8.8	22.3
3 2	11 27.06	+ 3 10.1	2.104	3.086	3.1	20.5	3 2	11 28.49	- 1 48.0	1.720	2.696	4.7	22.0
3 12	11 19.74	+ 4 29.9	2.099	3.092	0.8	20.3	3 12	11 19.37	- 0 33.7	1.692	2.684	1.7	21.8
3 22	11 12.57	+ 5 47.9	2.123	3.097	4.7	20.6	3 22	11 10.25	+ 0 45.9	1.693	2.671	5.2	22.0
4 1	11 6.33	+ 6 57.9	2.176	3.102	8.3	20.8	4 1	11 2.18	+ 2 2.7	1.721	2.657	9.4	22.2
4 11	11 1.62	+ 7 55.4	2.254	3.107	11.4	21.0	4 11	10 56.01	+ 3 9.8	1.775	2.643	13.3	22.4
<b>12414</b>	Bure		3 9.9 190°10'	1°2/ 8.7	18		<b>31214</b>	1998 BZ <sub>9</sub>		3 9.9 9°66'	0°7/ 9.3	18	
2 1	11 48.08	+ 4 39.7	2.112	2.900	13.7	19.4	2 1	11 42.58	+ 2 22.1	1.505	2.319	17.1	19.0
2 11	11 43.55	+ 5 17.4	2.018	2.897	10.6	19.2	2 11	11 40.02	+ 2 58.3	1.428	2.320	13.3	18.8
2 21	11 36.85	+ 6 6.9	1.948	2.893	7.0	19.0	2 21	11 34.85	+ 3 52.3	1.372	2.322	8.9	18.5
3 2	11 28.51	+ 7 3.7	1.905	2.888	3.1	18.7	3 2	11 27.70	+ 4 58.7	1.340	2.324	3.9	18.2
3 12	11 19.34	+ 8 1.7	1.892	2.883	1.8	18.6	3 12	11 19.61	+ 6 9.5	1.335	2.327	1.6	18.1
3 22	11 10.28	+ 8 54.7	1.908	2.877	5.7	18.9	3 22	11 11.75	+ 7 15.7	1.355	2.331	6.6	18.4
4 1	11 2.28	+ 9 37.3	1.953	2.870	9.6	19.1	4 1	11 5.28	+ 8 9.4	1.401	2.335	11.3	18.7
4 11	10 56.08	+10 5.9	2.021	2.862	13.0	19.3	4 11	11 1.07	+ 8 45.4	1.469	2.339	15.4	18.9
<b>500263</b>	2012 KJ <sub>51</sub>		3 9.9 228°81'	5°2/ 2.9	17		<b>42068</b>	2000 YA <sub>133</sub>		3 9.9 247°10'	1°3/ 8.3	18	
2 1	11 45.46	+17 21.0	2.436	3.248	11.4	22.0	2 1	11 43.89	+ 7 30.7	2.792	3.582	10.7	18.7
2 11	11 41.39	+18 54.2	2.346	3.235	8.9	22.0	2 11	11 39.77	+ 7 52.6	2.695	3.576	8.2	18.5
2 21	11 35.37	+20 31.7	2.282	3.221	6.5	21.8	2 21	11 34.07	+ 8 20.8	2.623	3.569	5.4	18.3
3 2	11 27.84	+22 5.9	2.247	3.207	5.2	21.7	3 2	11 27.20	+ 8 52.0	2.579	3.561	2.5	18.1
3 12	11 19.52	+23 29.1	2.242	3.192	6.2	21.8	3 12	11 19.76	+ 9 22.4	2.565	3.554	1.8	18.0
3 22	11 11.24	+24 34.9	2.265	3.177	8.6	21.9	3 22	11 12.41	+ 9 48.0	2.582	3.547	4.7	18.2
4 1	11 3.84	+25 19.4	2.315	3.161	11.3	22.0	4 1	11 5.80	+10 5.9	2.627	3.540	7.6	18.4
4 11	10 58.03	+25 41.5	2.386	3.144	13.7	22.2	4 11	11 0.50	+10 13.8	2.697	3.532	10.3	18.6
<b>310981</b>	2003 UP <sub>328</sub>		3 9.9 80°97'	3°8/12.9	18		<b>60166</b>	1999 UC <sub>31</sub>		3 9.9 255°27'	1°1/ 8.5	17	
2 1	11 46.17	- 7 5.0	1.595	2.363	18.3	21.0	2 1	11 42.85	+ 5 38.4	2.659	3.449	11.2	20.7
2 11	11 42.73	- 7 12.6	1.511	2.366	15.0	20.8	2 11	11 39.10	+ 6 11.5	2.557	3.437	8.6	20.5
2 21	11 36.64	- 6 57.6	1.447	2.370	11.0	20.6	2 21	11 33.71	+ 6 53.2	2.479	3.425	5.7	20.3
3 2	11 28.50	- 6 20.5	1.405	2.373	6.7	20.3	3 2	11 27.07	+ 7 40.1	2.429	3.412	2.5	20.1
3 12	11 19.35	- 5 25.2	1.390	2.376	3.8	20.1	3 12	11 19.79	+ 8 27.7	2.410	3.400	1.6	20.0
3 22	11 10.38	- 4 19.0	1.401	2.380	5.9	20.3	3 22	11 12.56	+ 9 11.2	2.420	3.387	4.8	20.2
4 1	11 2.79	- 3 10.5	1.439	2.383	10.1	20.5	4 1	11 6.08	+ 9 46.7	2.458	3.374	8.0	20.4
4 11	10 57.48	- 2 8.2	1.500	2.386	14.2	20.8	4 11	11 0.93	+10 11.3	2.522	3.361	10.8	20.5
<b>348492</b>	2005 SS <sub>238</sub>		3 9.9 19°49'	1°9/ 8.8	18		<b>239679</b>	2008 YA <sub>55</sub>		3 9.9 131°33'	4°2/ 4.8	18	
2 1	11 51.00	+ 7 11.7	1.230	2.055	19.5	20.4	2 1	11 43.67	+14 30.8				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>120685</b>	1997 <i>CM</i> <sub>9</sub>		3 9.9 129°42'	0°8/10.7	18		<b>333444</b>	2003 <i>UG</i> <sub>1</sub>		3 9.9 235°56'	3°0/13.2	17	
2 1	11 48.35	- 0 3.8	2.365	3.130	13.1	21.0	2 1	11 45.21	- 7 40.0	2.498	3.232	13.3	21.9
2 11	11 43.36	+ 0 3.7	2.282	3.144	10.3	20.8	2 11	11 41.12	- 7 41.8	2.385	3.219	10.9	21.7
2 21	11 36.50	+ 0 23.0	2.223	3.157	7.0	20.7	2 21	11 35.18	- 7 27.8	2.295	3.206	8.1	21.5
3 2	11 28.29	+ 0 51.4	2.192	3.170	3.4	20.4	3 2	11 27.80	- 6 58.5	2.230	3.192	5.1	21.3
3 12	11 19.49	+ 1 25.3	2.190	3.183	1.0	20.3	3 12	11 19.63	- 6 16.4	2.194	3.178	3.1	21.1
3 22	11 10.91	+ 2 0.2	2.219	3.195	4.3	20.5	3 22	11 11.46	- 5 25.3	2.188	3.163	4.5	21.2
4 1	11 3.33	+ 2 31.7	2.276	3.206	7.8	20.8	4 1	11 4.07	- 4 30.5	2.211	3.148	7.5	21.4
4 11	10 57.37	+ 2 56.1	2.360	3.217	10.8	21.0	4 11	10 58.14	- 3 37.7	2.260	3.132	10.6	21.5
<b>109535</b>	2001 <i>QP</i> <sub>250</sub>		3 9.9 109°35'	4°5/5.2	18		<b>375042</b>	2007 <i>JC</i> <sub>5</sub>		3 9.9 299°07'	19°3/27.6	17	
2 1	11 46.35	+12 48.2	1.877	2.695	14.0	19.7	2 1	12 11.47	+41 40.7	1.096	1.900	22.8	20.3
2 11	11 42.35	+14 7.2	1.812	2.707	10.7	19.5	2 11	12 4.78	+43 23.5	1.051	1.896	20.9	20.1
2 21	11 36.07	+15 32.7	1.770	2.719	7.3	19.3	2 21	11 52.43	+44 40.3	1.023	1.891	19.5	20.0
3 2	11 28.15	+16 56.6	1.756	2.730	4.7	19.2	3 2	11 35.77	+45 9.5	1.012	1.887	19.3	20.0
3 12	11 19.53	+18 9.9	1.769	2.741	5.4	19.3	3 12	11 17.58	+44 36.5	1.019	1.883	20.4	20.0
3 22	11 11.21	+19 5.9	1.811	2.752	8.4	19.5	3 22	11 0.98	+42 59.7	1.045	1.880	22.4	20.1
4 1	11 4.17	+19 40.5	1.878	2.763	11.7	19.7	4 1	10 48.36	+40 29.0	1.088	1.876	24.8	20.3
4 11	10 59.10	+19 52.8	1.967	2.773	14.7	19.9	4 11	10 40.78	+37 20.7	1.144	1.872	27.2	20.5
<b>413199</b>	2002 <i>YB</i>		3 9.9 52°12'	6°1/3.6	16		<b>89668</b>	2001 <i>YE</i> <sub>13</sub>		3 9.9 307°42'	3°2/7.1	17	
2 1	11 49.74	+ 8 52.2	1.361	2.186	18.0	19.4	2 1	11 45.17	+ 9 21.3	1.705	2.525	15.2	19.8
2 11	11 45.24	+12 8.1	1.337	2.237	13.4	19.3	2 11	11 41.87	+10 7.9	1.619	2.515	11.7	19.6
2 21	11 37.98	+15 32.0	1.338	2.289	8.9	19.1	2 21	11 36.05	+11 5.0	1.555	2.506	7.8	19.3
3 2	11 28.92	+18 45.9	1.367	2.340	6.1	19.1	3 2	11 28.28	+12 6.1	1.516	2.498	4.0	19.1
3 12	11 19.37	+21 32.8	1.427	2.390	7.5	19.3	3 12	11 19.51	+13 2.8	1.504	2.489	4.0	19.0
3 22	11 10.63	+23 42.2	1.514	2.440	11.0	19.6	3 22	11 10.88	+13 47.7	1.520	2.481	7.8	19.2
4 1	11 3.78	+25 10.9	1.625	2.489	14.3	19.9	4 1	11 3.52	+14 15.3	1.561	2.472	12.0	19.5
4 11	10 59.44	+26 1.8	1.757	2.538	17.1	20.3	4 11	10 58.29	+14 22.8	1.623	2.464	15.6	19.7
<b>79002</b>	2774 <i>P-L</i>		3 9.9 95°58'	1°5/8.6	18		<b>423855</b>	2006 <i>QG</i> <sub>133</sub>		3 9.9 193°36'	0°8/9.1	17	
2 1	11 49.08	+ 5 24.3	1.712	2.515	15.8	20.0	2 1	11 49.20	+ 4 20.6	2.309	3.090	12.9	23.2
2 11	11 44.56	+ 6 1.4	1.646	2.532	12.2	19.8	2 11	11 44.23	+ 4 49.5	2.214	3.087	10.1	23.0
2 21	11 37.58	+ 6 50.6	1.601	2.549	8.0	19.6	2 21	11 37.23	+ 5 28.8	2.142	3.084	6.7	22.8
3 2	11 28.84	+ 7 46.3	1.582	2.566	3.5	19.4	3 2	11 28.70	+ 6 14.7	2.098	3.081	2.9	22.6
3 12	11 19.36	+ 8 41.0	1.592	2.582	2.3	19.3	3 12	11 19.42	+ 7 2.2	2.084	3.076	1.4	22.4
3 22	11 10.28	+ 9 27.7	1.629	2.598	6.5	19.6	3 22	11 10.24	+ 7 45.9	2.101	3.070	5.2	22.7
4 1	11 2.63	+10 1.3	1.693	2.614	10.6	19.9	4 1	11 2.04	+ 8 21.2	2.146	3.064	8.8	22.9
4 11	10 57.16	+10 18.9	1.780	2.629	14.1	20.2	4 11	10 55.52	+ 8 44.9	2.217	3.057	12.0	23.1
<b>520109</b>	2014 <i>AG</i> <sub>43</sub>		3 9.9 9°25'	1°2/8.7	17		<b>69061</b>	2002 <i>YN</i> <sub>28</sub>		3 9.9 11°89'	4°5/5.4	17	
2 1	11 43.32	+ 4 57.6	1.936	2.741	14.2	21.5	2 1	11 42.00	+12 58.9	1.757	2.587	14.3	19.5
2 11	11 40.00	+ 5 29.2	1.854	2.741	11.0	21.3	2 11	11 39.20	+14 2.4	1.688	2.590	11.0	19.3
2 21	11 34.54	+ 6 12.5	1.794	2.743	7.2	21.1	2 21	11 34.10	+15 12.5	1.643	2.594	7.5	19.1
3 2	11 27.50	+ 7 2.9	1.760	2.744	3.2	20.8	3 2	11 27.32	+16 21.3	1.623	2.599	4.8	18.9
3 12	11 19.71	+ 7 54.1	1.755	2.746	1.9	20.7	3 12	11 19.79	+17 20.3	1.630	2.604	5.4	19.0
3 22	11 12.10	+ 8 40.0	1.777	2.748	5.8	21.0	3 22	11 12.54	+18 2.8	1.663	2.610	8.5	19.2
4 1	11 5.60	+ 9 15.2	1.826	2.751	9.7	21.2	4 1	11 6.53	+18 24.8	1.721	2.617	12.0	19.4
4 11	11 0.91	+ 9 36.4	1.899	2.753	13.2	21.5	4 11	11 2.49	+18 25.2	1.801	2.625	15.1	19.6
<b>153387</b>	2001 <i>QR</i> <sub>52</sub>		3 9.9 274°72'	3°5/7.0	18		<b>406557</b>	2007 <i>YO</i> <sub>42</sub>		3 9.9 61°89'	1°2/8.9	18	
2 1	11 46.21	+ 7 42.9	1.455	2.279	17.1	20.2	2 1	11 48.23	+ 4 5.8	1.459	2.270	17.7	21.1
2 11	11 43.25	+ 8 45.9	1.364	2.263	13.3	19.9	2 11	11 44.23	+ 4 39.8	1.401	2.291	13.6	20.9
2 21	11 37.33	+10 5.3	1.293	2.247	8.8	19.6	2 21	11 37.51	+ 5 28.7	1.363	2.313	8.9	20.7
3 2	11 28.98	+11 33.7	1.248	2.230	4.5	19.3	3 2	11 28.84	+ 6 26.2	1.350	2.334	3.9	20.5
3 12	11 19.28	+12 59.9	1.228	2.214	4.5	19.3	3 12	11 19.42	+ 7 24.1	1.364	2.356	2.0	20.4
3 22	11 9.59	+14 13.1	1.235	2.197	9.1	19.5	3 22	11 10.50	+ 8 14.4	1.405	2.377	6.8	20.7
4 1	11 1.31	+15 4.6	1.266	2.180	14.0	19.7	4 1	11 3.24	+ 8 50.8	1.471	2.399	11.3	21.0
4 11	10 55.57	+15 30.4	1.317	2.163	18.3	19.9	4 11	10 58.39	+ 9 10.0	1.559	2.421	15.1	21.3
<b>94387</b>	2001 <i>SP</i> <sub>108</sub>		3 9.9 123°04'	0°5/10.3	18		<b>222266</b>	2000 <i>QH</i> <sub>193</sub>		3 9.9 158°82'	2°5/6.8	18	
2 1	11 50.86	+ 0 49.9	1.657	2.444	16.9	19.5	2 1	11 44.79	+ 7 46.1	2.322	3.121	12.3	20.7
2 11	11 46.12	+ 1 1.7	1.582	2.456	13.3	19.3	2 11	11 40.77	+ 8 59.8	2.241	3.127	9.4	20.6
2 21	11 38.75	+ 1 29.3	1.527	2.468	9.0	19.1	2 21	11 34.88	+10 23.1	2.185	3.133	6.1	20.4
3 2	11 29.42	+ 2 9.1	1.498	2.479	4.2	18.8	3 2	11 27.62	+11 50.2	2.158	3.138	3.1	20.2
3 12	11 19.21	+ 2 55.2	1.496	2.489	1.0	18.6	3 12	11 19.73	+13 13.8	2.160	3.143	3.2	20.2
3 22	11 9.32	+ 3 40.8	1.523	2.499	5.8	19.0	3 22	11 12.00	+14 27.4	2.193	3.148	6.2	20.4
4 1	11 0.91	+ 4 19.2	1.576	2.509	10.3	19.2	4 1	11 5.23	+15 26.0	2.254	3.151	9.5	20.6
4 11	10 54.80	+ 4 45.9	1.653	2.518	14.2	19.5	4 11	11 0.02	+16 7.0	2.339	3.155	12.3	20.8
<b>321248</b>	2009 <i>BU</i> <sub>149</sub>		3 9.9 104°21'	0°3/10.3	17		<b>203813</b>	2002 <i>TL</i> <sub>216</sub>		3 9.9 103°11'	4°2/4.9	18	
2 1	11 43.79	+ 0 44.5	2.381	3.159	12.7	21.3	2 1	11 45.15	+14 51.4	2.334	3.146	11.8	20.2
2 11	11 39.90	+ 1 7.0	2.297	3.167	9.9	21.2	2 11	11 40.96	+15 57.7	2.270	3.161	9.1	20.1
2 21	11 34.24	+ 1 41.4	2.237	3.176	6.7	21.0	2 21	11 34.94	+17 7.2	2.230	3.175	6.3	19.9
3 2	11 27.30	+ 2 24.7	2.204	3.184	3.1	20.7	3 2	11 27.61	+18 13.4	2.219	3.190	4.3	19.8
3 12	11 19.79	+ 3 12.3	2.200	3.193	0.7	20.6	3 12	11 19.74	+19 9.8	2.237	3.204	4.9	19.9
3 22	11 12.45	+ 3 59.4	2.225	3.201	4.3	20.8	3 22	11 12.14	+19 51.6	2.283	3.218	7.3	20.1
4 1	11 6.02	+ 4 41.3	2.279	3.209	7.8	21.1	4 1	11 5.57	+20 15.9	2.356	3.231	10.0	20.3
4 11	11 1.09	+ 5 14.1	2.359	3.217	10.8	21.3	4 11	11 0.60	+20 22.1	2.452	3.245	12.5	20.4
<b>238335</b>	2004 <i>BF</i> <sub>46</sub>		3 9.9 20°18'	2°9/6.6	18		<b>9049</b>	1991 <i>RQ</i> <sub>27</sub>		3 9.9 214°11'	2°0/7.8	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>147415</b>	2003 <i>FG</i> <sub>99</sub>		3 9.9 204°84	1°5/ 7.9 18			<b>330042</b>	2005 <i>UN</i> <sub>286</sub>		3 9.9 255°35	3°4/ 6.7 17		
2 1	11 43.74	+ 7 42.5	2.826	3.617	10.5	20.2	2 1	11 46.70	+10 42.4	1.897	2.710	14.1	21.4
2 11	11 39.64	+ 8 15.6	2.732	3.613	8.1	20.0	2 11	11 42.81	+11 31.9	1.808	2.701	10.9	21.1
2 21	11 33.99	+ 8 55.2	2.663	3.610	5.3	19.9	2 21	11 36.57	+12 29.9	1.743	2.692	7.3	20.9
3 2	11 27.20	+ 9 37.9	2.623	3.605	2.5	19.6	3 2	11 28.51	+13 30.0	1.704	2.683	4.0	20.7
3 12	11 19.85	+10 19.2	2.613	3.601	2.0	19.6	3 12	11 19.53	+14 24.5	1.693	2.674	4.2	20.7
3 22	11 12.61	+10 55.1	2.634	3.596	4.8	19.8	3 22	11 10.67	+15 6.7	1.710	2.665	7.6	20.8
4 1	11 6.11	+11 22.3	2.683	3.591	7.7	20.0	4 1	11 2.98	+15 31.7	1.753	2.656	11.4	21.0
4 11	11 0.89	+11 38.5	2.757	3.586	10.3	20.1	4 11	10 57.27	+15 37.6	1.819	2.646	14.8	21.2
<b>453315</b>	2008 <i>VG</i> <sub>41</sub>		3 9.9 177°64	2°6/12.3 18			<b>307454</b>	2002 <i>VW</i> <sub>30</sub>		3 9.9 142°59	5°7/16.5 18		
2 1	11 50.26	- 5 29.8	2.011	2.760	15.6	23.0	2 1	11 46.99	-16 36.0	2.314	2.998	15.5	21.7
2 11	11 45.37	- 5 24.6	1.916	2.763	12.7	22.8	2 11	11 42.55	-16 45.3	2.224	3.011	13.2	21.5
2 21	11 38.17	- 5 1.3	1.844	2.765	9.1	22.5	2 21	11 36.12	-16 32.7	2.153	3.022	10.6	21.3
3 2	11 29.19	- 4 21.1	1.796	2.766	5.3	22.3	3 2	11 28.22	-15 57.2	2.105	3.034	7.9	21.2
3 12	11 19.32	- 3 28.0	1.778	2.766	2.6	22.1	3 12	11 19.62	-15 0.7	2.085	3.044	5.9	21.1
3 22	11 9.57	- 2 27.8	1.789	2.766	5.1	22.3	3 22	11 11.18	-13 47.9	2.094	3.054	6.1	21.1
4 1	11 0.96	- 1 27.3	1.828	2.764	8.9	22.5	4 1	11 3.76	-12 25.3	2.131	3.063	8.1	21.2
4 11	10 54.30	- 0 33.0	1.893	2.762	12.5	22.7	4 11	10 58.02	-11 0.7	2.194	3.071	10.7	21.4
<b>281063</b>	2006 <i>KH</i> <sub>46</sub>		3 9.9 221°50	1°3/ 8.5 17			<b>378739</b>	2008 <i>RK</i> <sub>33</sub>		3 9.9 204°69	1°3/11.3 17		
2 1	11 44.06	+ 5 10.9	2.238	3.033	12.8	21.5	2 1	11 44.41	- 2 27.0	2.156	2.926	14.1	22.1
2 11	11 40.33	+ 5 49.7	2.147	3.030	9.9	21.3	2 11	11 40.69	- 2 8.6	2.062	2.924	11.2	21.9
2 21	11 34.67	+ 6 39.2	2.080	3.027	6.5	21.1	2 21	11 34.97	- 1 34.7	1.989	2.922	7.8	21.7
3 2	11 27.57	+ 7 34.9	2.040	3.023	2.9	20.8	3 2	11 27.73	- 0 47.5	1.943	2.920	4.0	21.4
3 12	11 19.76	+ 8 31.3	2.029	3.020	1.9	20.8	3 12	11 19.74	+ 0 8.4	1.925	2.917	1.3	21.2
3 22	11 12.07	+ 9 22.6	2.048	3.016	5.4	21.0	3 22	11 11.85	+ 1 7.4	1.936	2.914	4.6	21.5
4 1	11 5.33	+10 3.8	2.094	3.012	9.0	21.2	4 1	11 4.93	+ 2 3.3	1.976	2.911	8.4	21.7
4 11	11 0.18	+10 31.7	2.165	3.008	12.2	21.4	4 11	10 59.67	+ 2 50.9	2.040	2.908	11.8	21.9
<b>123753</b>	2001 <i>AP</i> <sub>32</sub>		3 9.9 311°66	6°2/ 3.7 18			<b>208500</b>	2001 <i>WW</i> <sub>8</sub>		3 9.9 241°45	2°7/ 6.3 17		
2 1	11 45.59	+17 58.3	1.811	2.639	14.0	19.0	2 1	11 43.94	+11 10.9	2.737	3.538	10.6	20.7
2 11	11 42.09	+19 10.2	1.733	2.631	11.0	18.8	2 11	11 39.95	+12 2.4	2.637	3.523	8.2	20.5
2 21	11 36.14	+20 25.3	1.679	2.622	8.1	18.6	2 21	11 34.30	+12 59.8	2.562	3.508	5.4	20.3
3 2	11 28.31	+21 34.6	1.650	2.614	6.3	18.5	3 2	11 27.39	+13 58.6	2.515	3.493	3.1	20.1
3 12	11 19.56	+22 29.2	1.648	2.607	7.2	18.5	3 12	11 19.84	+14 53.4	2.499	3.477	3.3	20.1
3 22	11 11.00	+23 2.3	1.672	2.599	10.1	18.6	3 22	11 12.32	+15 39.3	2.512	3.461	5.9	20.3
4 1	11 3.73	+23 10.7	1.721	2.592	13.3	18.8	4 1	11 5.54	+16 12.7	2.554	3.445	8.8	20.4
4 11	10 58.55	+22 54.6	1.790	2.585	16.3	19.0	4 11	11 0.09	+16 31.6	2.620	3.428	11.4	20.6
<b>237045</b>	2008 <i>SE</i> <sub>125</sub>		3 9.9 142°35	0°4/10.4 17			<b>375951</b>	2009 <i>WX</i> <sub>166</sub>		3 9.9 275°70	2°9/ 6.9 17		
2 1	11 45.13	+ 0 23.0	2.292	3.067	13.2	21.8	2 1	11 44.77	+ 9 17.0	1.951	2.763	13.8	20.6
2 11	11 41.04	+ 0 45.3	2.205	3.073	10.3	21.6	2 11	11 41.17	+10 9.2	1.868	2.761	10.6	20.4
2 21	11 35.07	+ 1 20.3	2.141	3.079	7.0	21.4	2 21	11 35.38	+11 10.7	1.808	2.759	7.0	20.2
3 2	11 27.72	+ 2 5.0	2.105	3.085	3.3	21.2	3 2	11 27.94	+12 15.2	1.775	2.756	3.6	20.0
3 12	11 19.73	+ 2 54.7	2.097	3.090	0.8	21.0	3 12	11 19.69	+13 15.5	1.771	2.754	3.7	20.0
3 22	11 11.91	+ 3 44.2	2.120	3.095	4.5	21.3	3 22	11 11.63	+14 4.9	1.794	2.752	7.1	20.2
4 1	11 5.04	+ 4 28.5	2.170	3.100	8.1	21.5	4 1	11 4.68	+14 38.4	1.844	2.750	10.7	20.4
4 11	10 59.76	+ 5 3.5	2.246	3.105	11.2	21.7	4 11	10 59.59	+14 53.7	1.916	2.748	14.0	20.6
<b>105912</b>	2000 <i>SD</i> <sub>205</sub>		3 9.9 135°90	2°1/12.7 18			<b>121343</b>	1999 <i>TH</i> <sub>37</sub>		3 9.9 134°75	1°6/ 8.1 18		
2 1	11 41.58	- 6 28.9	2.627	3.372	12.5	19.9	2 1	11 47.70	+ 7 39.5	2.499	3.288	11.8	20.6
2 11	11 38.09	- 6 6.5	2.534	3.377	10.1	19.7	2 11	11 42.77	+ 8 12.5	2.422	3.301	9.1	20.4
2 21	11 33.01	- 5 28.8	2.463	3.382	7.2	19.5	2 21	11 36.08	+ 8 52.4	2.369	3.315	5.9	20.2
3 2	11 26.77	- 4 37.3	2.419	3.387	4.2	19.3	3 2	11 28.14	+ 9 35.1	2.345	3.327	2.7	20.1
3 12	11 19.99	- 3 35.9	2.403	3.391	2.1	19.2	3 12	11 19.66	+10 15.7	2.351	3.339	2.2	20.0
3 22	11 13.32	- 2 29.2	2.418	3.396	3.8	19.3	3 22	11 11.42	+10 49.7	2.388	3.351	5.2	20.2
4 1	11 7.42	- 1 22.8	2.462	3.400	6.8	19.5	4 1	11 4.13	+11 13.8	2.453	3.362	8.3	20.5
4 11	11 2.86	- 0 21.5	2.533	3.404	9.7	19.7	4 11	10 58.37	+11 26.0	2.543	3.372	11.0	20.7
<b>203791</b>	2002 <i>TD</i> <sub>62</sub>		3 9.9 96°56	2°9/13.0 18			<b>325779</b>	2010 <i>OT</i> <sub>76</sub>		3 9.9 55°72	3°7/13.6 18		
2 1	11 45.44	- 6 40.0	2.309	3.053	14.0	21.0	2 1	11 42.68	- 9 54.1	1.573	2.335	18.7	20.9
2 11	11 41.24	- 6 44.8	2.226	3.067	11.3	20.9	2 11	11 39.95	- 9 28.4	1.500	2.350	15.3	20.7
2 21	11 35.17	- 6 33.8	2.164	3.080	8.3	20.7	2 21	11 34.72	- 8 34.9	1.446	2.365	11.3	20.5
3 2	11 27.76	- 6 8.1	2.129	3.094	5.1	20.5	3 2	11 27.66	- 7 15.5	1.415	2.380	7.0	20.3
3 12	11 19.73	- 5 30.7	2.122	3.107	2.9	20.4	3 12	11 19.79	- 5 36.9	1.410	2.396	3.8	20.1
3 22	11 11.90	- 4 45.9	2.144	3.120	4.4	20.5	3 22	11 12.22	- 3 48.8	1.432	2.412	5.6	20.2
4 1	11 5.04	- 3 59.2	2.194	3.133	7.5	20.7	4 1	11 6.04	- 2 2.1	1.481	2.428	9.7	20.5
4 11	10 59.77	- 3 15.7	2.271	3.145	10.5	20.9	4 11	11 2.01	- 0 26.7	1.554	2.444	13.6	20.8
<b>66833</b>	1999 <i>UP</i> <sub>45</sub>		3 9.9 318°20	4°8/14.2 18			<b>136958</b>	1998 <i>RN</i> <sub>9</sub>		3 9.9 297°46	0°0/ 9.7 17		
2 1	11 44.11	- 9 49.7	1.877	2.623	16.7	18.4	2 1	11 45.49	+ 1 58.8	1.573	2.378	16.9	20.4
2 11	11 40.90	-10 14.6	1.779	2.615	13.9	18.1	2 11	11 42.45	+ 2 15.9	1.476	2.362	13.4	20.1
2 21	11 35.36	-10 19.3	1.700	2.608	10.7	17.9	2 21	11 36.69	+ 2 49.8	1.400	2.346	9.1	19.8
3 2	11 27.99	-10 2.8	1.645	2.601	7.3	17.7	3 2	11 28.71	+ 3 37.2	1.348	2.331	4.1	19.5
3 12	11 19.64	- 9 27.0	1.616	2.594	4.9	17.5	3 12	11 19.49	+ 4 31.6	1.322	2.315	1.2	19.2
3 22	11 11.32	- 8 36.4	1.614	2.587	6.0	17.6	3 22	11 10.27	+ 5 25.1	1.323	2.300	6.5	19.5
4 1	11 4.08	- 7 38.0	1.638	2.581	9.3	17.7	4 1	11 2.33	+ 6 9.9	1.350	2.285	11.5	19.8
4 11	10 58.77	- 6 39.5	1.687	2.575	12.8	17.9	4 11	10 56.69	+ 6 40.3	1.398	2.270	15.9	20.0
<b>63645</b>	2001 <i>QY</i> <sub>101</sub>		3 9.9 99°63	1°3/ 8.8 18									

EPHEMERIDES

3 9.9

3 9.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>259230</b>	2003 <i>BS</i> <sub>36</sub>		3 9.9 69°67'	3:7/12.9	18		<b>46851</b>	1998 <i>QN</i> <sub>39</sub>		3 9.9 206°66'	1°3/8.7	18	
2 1	11 49.65	- 5 59.5	1.690	2.452	17.7	20.2	2 1	11 48.13	+ 5 7.3	2.141	2.930	13.5	20.2
2 11	11 45.11	- 6 23.9	1.620	2.471	14.3	20.0	2 11	11 43.63	+ 5 43.6	2.045	2.925	10.5	20.0
2 21	11 38.04	- 6 29.0	1.570	2.490	10.4	19.8	2 21	11 36.99	+ 6 31.1	1.974	2.919	6.9	19.7
3 2	11 29.13	- 6 15.3	1.543	2.510	6.4	19.6	3 2	11 28.71	+ 7 25.4	1.929	2.912	3.1	19.5
3 12	11 19.43	- 5 46.4	1.544	2.529	3.7	19.5	3 12	11 19.59	+ 8 20.6	1.914	2.905	1.9	19.4
3 22	11 10.08	- 5 7.7	1.572	2.549	5.7	19.7	3 22	11 10.56	+ 9 10.7	1.929	2.897	5.7	19.6
4 1	11 2.18	- 4 25.9	1.627	2.568	9.4	19.9	4 1	11 2.56	+ 9 50.3	1.971	2.888	9.6	19.8
4 11	10 56.49	- 3 47.8	1.706	2.587	13.0	20.2	4 11	10 56.34	+10 16.1	2.039	2.879	12.9	20.0
<b>109056</b>	2001 <i>QX</i> <sub>16</sub>		3 9.9 85°96'	0°5/10.4	18		<b>374072</b>	2004 <i>RY</i> <sub>127</sub>		3 9.9 270°08'	0°7/10.5	17	
2 1	11 47.07	- 0 23.7	1.818	2.602	15.8	20.5	2 1	11 45.58	+ 0 10.1	1.910	2.695	15.1	21.6
2 11	11 42.88	+ 0 6.1	1.750	2.622	12.3	20.3	2 11	11 41.89	+ 0 23.6	1.818	2.692	11.9	21.4
2 21	11 36.44	+ 0 52.1	1.703	2.643	8.3	20.1	2 21	11 35.95	+ 0 52.0	1.748	2.688	8.1	21.1
3 2	11 28.37	+ 1 50.2	1.683	2.663	3.9	19.9	3 2	11 28.26	+ 1 32.5	1.704	2.684	3.9	20.9
3 12	11 19.65	+ 2 54.0	1.690	2.683	0.9	19.7	3 12	11 19.71	+ 2 20.0	1.688	2.681	0.9	20.6
3 22	11 11.27	+ 3 56.4	1.726	2.703	5.2	20.1	3 22	11 11.27	+ 3 8.5	1.700	2.677	5.2	20.9
4 1	11 4.20	+ 4 50.9	1.790	2.722	9.3	20.4	4 1	11 3.93	+ 3 51.8	1.739	2.673	9.4	21.2
4 11	10 59.11	+ 5 32.7	1.878	2.742	12.8	20.6	4 11	10 58.50	+ 4 25.0	1.802	2.670	13.1	21.4
<b>269218</b>	2008 <i>NP</i> <sub>1</sub>		3 9.9 351°96'	0°9/8.9	17		<b>138575</b>	2000 <i>QG</i> <sub>114</sub>		3 9.9 103°67'	0°8/8.9	18	
2 1	11 40.30	- 1 6.9	1.760	2.556	15.7	19.8	2 1	11 44.93	+ 5 4.5	2.588	3.373	11.6	20.3
2 11	11 37.96	+ 0 31.0	1.672	2.555	12.3	19.6	2 11	11 40.60	+ 5 31.1	2.511	3.388	8.9	20.2
2 21	11 33.39	+ 2 32.8	1.607	2.553	8.1	19.3	2 21	11 34.64	+ 6 5.9	2.459	3.403	5.8	20.0
3 2	11 27.10	+ 4 51.9	1.569	2.553	3.5	19.0	3 2	11 27.53	+ 6 45.3	2.435	3.418	2.5	19.8
3 12	11 19.96	+ 7 17.5	1.560	2.552	1.8	18.9	3 12	11 19.93	+ 7 24.8	2.441	3.432	1.4	19.7
3 22	11 12.95	+ 9 37.3	1.581	2.551	6.4	19.2	3 22	11 12.54	+ 8 0.4	2.477	3.447	4.5	20.0
4 1	11 7.06	+11 40.7	1.629	2.551	10.8	19.5	4 1	11 6.03	+ 8 28.5	2.542	3.461	7.6	20.2
4 11	11 3.07	+13 20.2	1.701	2.551	14.6	19.7	4 11	11 0.93	+ 8 46.5	2.632	3.474	10.3	20.4
<b>3495</b>	Colchagua		3 9.9 309°07'	0°9/8.9	18		<b>10337</b>	1991 <i>RO</i> <sub>1</sub>		3 9.9 161°84'	0°9/11.0	18	
2 1	11 42.10	+ 4 15.3	2.244	3.040	12.8	16.6	2 1	11 45.18	- 0 55.5	2.862	3.619	11.2	18.6
2 11	11 38.88	+ 4 47.7	2.146	3.029	9.9	16.4	2 11	11 40.71	- 0 42.7	2.768	3.625	8.9	18.4
2 21	11 33.77	+ 5 31.4	2.072	3.019	6.6	16.2	2 21	11 34.70	- 0 19.3	2.699	3.630	6.1	18.2
3 2	11 27.23	+ 6 22.4	2.025	3.008	2.9	15.9	3 2	11 27.57	+ 0 12.5	2.658	3.635	3.1	18.0
3 12	11 19.95	+ 7 15.5	2.007	2.998	1.5	15.8	3 12	11 19.91	+ 0 49.6	2.647	3.639	0.9	17.9
3 22	11 12.74	+ 8 5.0	2.017	2.988	5.2	16.0	3 22	11 12.38	+ 1 28.1	2.667	3.643	3.7	18.1
4 1	11 6.41	+ 8 45.9	2.055	2.979	8.9	16.2	4 1	11 5.60	+ 2 4.4	2.716	3.647	6.7	18.3
4 11	11 1.63	+ 9 14.5	2.118	2.969	12.1	16.4	4 11	11 0.10	+ 2 34.8	2.793	3.650	9.3	18.5
<b>212903</b>	2007 <i>WZ</i> <sub>38</sub>		3 9.9 48°68'	2°1/7.8	18		<b>246949</b>	1999 <i>RE</i> <sub>149</sub>		3 9.9 196°82'	0°4/10.4	17	
2 1	11 45.42	+ 8 28.7	2.016	2.823	13.6	20.4	2 1	11 49.79	+ 0 33.2	2.328	3.093	13.3	22.2
2 11	11 41.43	+ 8 59.7	1.948	2.838	10.4	20.2	2 11	11 44.73	+ 0 51.3	2.227	3.090	10.5	22.0
2 21	11 35.39	+ 9 38.2	1.903	2.853	6.8	20.0	2 21	11 37.64	+ 1 21.8	2.150	3.085	7.1	21.7
3 2	11 27.89	+10 19.3	1.885	2.868	3.2	19.8	3 2	11 28.99	+ 2 2.2	2.100	3.080	3.4	21.5
3 12	11 19.80	+10 57.1	1.896	2.883	2.7	19.8	3 12	11 19.54	+ 2 48.0	2.081	3.074	0.8	21.3
3 22	11 12.02	+11 26.5	1.935	2.899	6.1	20.0	3 22	11 10.17	+ 3 34.2	2.092	3.067	4.7	21.5
4 1	11 5.39	+11 43.7	2.000	2.915	9.6	20.3	4 1	11 1.75	+ 4 15.7	2.132	3.059	8.4	21.8
4 11	11 0.56	+11 47.0	2.089	2.931	12.6	20.5	4 11	10 55.00	+ 4 48.3	2.198	3.050	11.7	21.9
<b>378717</b>	2008 <i>QL</i> <sub>6</sub>		3 9.9 187°43'	4°5/14.8	17		<b>177607</b>	2004 <i>HD</i> <sub>1</sub>		3 9.9 14°34'	15°6/1.9	18	
2 1	11 45.83	-11 56.9	2.405	3.117	14.3	21.7	2 1	12 13.35	+41 52.9	1.425	2.203	19.6	18.6
2 11	11 41.65	-12 11.5	2.304	3.116	12.0	21.5	2 11	12 4.55	+42 41.8	1.377	2.206	17.7	18.4
2 21	11 35.57	-12 8.0	2.224	3.115	9.3	21.3	2 21	11 51.29	+43 5.5	1.348	2.210	16.2	18.3
3 2	11 28.03	-11 46.0	2.169	3.114	6.5	21.1	3 2	11 35.04	+42 49.3	1.340	2.215	15.6	18.3
3 12	11 19.74	-11 7.3	2.141	3.113	4.6	21.0	3 12	11 18.07	+41 44.3	1.355	2.220	16.2	18.4
3 22	11 11.52	-10 15.8	2.142	3.111	5.2	21.1	3 22	11 2.73	+39 51.9	1.392	2.227	17.8	18.5
4 1	11 4.18	- 9 16.8	2.172	3.108	7.7	21.2	4 1	10 50.73	+37 20.7	1.450	2.234	19.8	18.6
4 11	10 58.40	- 8 16.7	2.228	3.105	10.6	21.4	4 11	10 42.85	+34 23.5	1.526	2.242	21.9	18.8
<b>423711</b>	2006 <i>BJ</i> <sub>35</sub>		3 9.9 176°51'	1°5/8.3	17		<b>299238</b>	2005 <i>LP</i> <sub>48</sub>		3 9.9 185°29'	7°2/21.9	18	
2 1	11 44.87	+ 5 20.0	2.175	2.971	13.1	21.2	2 1	11 45.43	-29 22.7	3.660	4.210	12.0	21.4
2 11	11 41.00	+ 6 5.9	2.088	2.972	10.1	21.0	2 11	11 40.86	-30 2.7	3.550	4.210	10.9	21.3
2 21	11 35.16	+ 7 2.8	2.026	2.973	6.6	20.8	2 21	11 34.81	-30 25.7	3.458	4.209	9.7	21.1
3 2	11 27.84	+ 8 6.0	1.990	2.973	3.0	20.6	3 2	11 27.65	-30 29.4	3.388	4.207	8.5	21.1
3 12	11 19.81	+ 9 9.3	1.984	2.974	2.1	20.5	3 12	11 19.90	-30 13.1	3.342	4.205	7.5	21.0
3 22	11 11.93	+10 6.4	2.007	2.974	5.7	20.7	3 22	11 12.15	-29 37.9	3.322	4.203	7.2	21.0
4 1	11 5.05	+10 52.2	2.058	2.973	9.3	21.0	4 1	11 5.02	-28 46.7	3.330	4.200	7.5	21.0
4 11	10 59.84	+11 23.4	2.132	2.973	12.4	21.2	4 11	10 59.02	-27 44.0	3.363	4.196	8.5	21.0
<b>249604</b>	1999 <i>HM</i> <sub>12</sub>		3 9.9 19°58'	15°8/8.3	18		<b>379281</b>	2009 <i>UU</i> <sub>146</sub>		3 9.9 229°21'	4°9/15.3	17	
2 1	12 27.43	+40 30.3	1.060	1.847	24.5	17.6	2 1	11 45.12	-13 24.3	2.299	3.007	15.0	21.9
2 11	12 15.61	+40 17.7	1.019	1.863	21.4	17.4	2 11	11 41.31	-13 31.4	2.188	2.996	12.7	21.7
2 21	11 58.35	+39 31.2	0.993	1.881	18.3	17.3	2 21	11 35.48	-13 18.0	2.098	2.986	10.0	21.5
3 2	11 37.88	+37 54.3	0.989	1.902	16.2	17.2	3 2	11 28.06	-12 43.3	2.031	2.974	7.1	21.3
3 12	11 17.41	+35 21.7	1.009	1.924	15.9	17.3	3 12	11 19.78	-11 49.1	1.992	2.962	5.1	21.2
3 22	10 59.85	+32 3.2	1.053	1.949	17.6	17.5	3 22	11 11.48	-10 39.5	1.982	2.950	5.6	21.2
4 1	10 46.92	+28 17.2	1.122	1.975	20.2	17.7	4 1	11 4.06	- 9 21.1	2.000	2.937	8.2	21.3
4 11	10 39.05	+24 22.6	1.212	2.002	22.8	18.0	4 11	10 58.25	- 8 1.4	2.044	2.924	11.3	21.5
<b>423667</b>	2005 <i>YU</i> <sub>142</sub>		3 9.9 152°63'	1°7/7.9	16		<b>151206</b>	2001 <i>YY</i> <sub>33</sub>		3 9.9 346°62'	1°3/11.0	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>207980</b>	1996 <i>VJ</i> <sub>36</sub>		3 9.9 177°74	1.6°/ 8.1 17			<b>263389</b>	2008 <i>CR</i> <sub>210</sub>		3 9.9 201°65	2.4°/ 7.2 17		
2 1	11 46.09	+ 8 9.2	2.692	3.482	11.0	21.5	2 1	11 47.14	+ 8 29.0	2.409	3.203	12.1	20.9
2 11	11 41.53	+ 8 35.6	2.603	3.483	8.5	21.4	2 11	11 42.64	+ 9 25.3	2.315	3.198	9.3	20.7
2 21	11 35.31	+ 9 8.1	2.539	3.484	5.6	21.2	2 21	11 36.22	+10 30.4	2.246	3.192	6.1	20.5
3 2	11 27.87	+ 9 43.1	2.503	3.485	2.6	21.0	3 2	11 28.35	+11 38.9	2.205	3.186	3.1	20.2
3 12	11 19.87	+10 16.4	2.497	3.485	2.1	20.9	3 12	11 19.76	+12 44.8	2.195	3.178	3.0	20.2
3 22	11 12.01	+10 43.9	2.522	3.485	4.9	21.1	3 22	11 11.25	+13 41.9	2.214	3.170	6.1	20.4
4 1	11 4.98	+11 2.5	2.575	3.484	7.9	21.3	4 1	11 3.64	+14 25.9	2.262	3.161	9.3	20.6
4 11	10 59.33	+11 10.2	2.654	3.484	10.6	21.5	4 11	10 57.61	+14 54.2	2.335	3.152	12.3	20.8
<b>17672</b>	1996 <i>XS</i> <sub>25</sub>		3 9.9 280°21	7.8°/27.8 18			<b>170213</b>	2003 <i>QX</i> <sub>3</sub>		3 9.9 150°19	0°1/10.1 18		
2 1	11 44.27	+26 36.2	2.353	3.171	11.5	18.3	2 1	11 49.11	+ 0 51.1	2.009	2.787	14.7	21.5
2 11	11 40.75	+28 18.2	2.274	3.153	9.6	18.1	2 11	11 44.40	+ 1 19.5	1.926	2.796	11.5	21.3
2 21	11 35.14	+29 57.7	2.221	3.136	8.2	18.0	2 21	11 37.48	+ 2 2.2	1.866	2.805	7.7	21.0
3 2	11 27.91	+31 26.0	2.195	3.118	7.9	17.9	3 2	11 28.93	+ 2 55.6	1.833	2.814	3.6	20.8
3 12	11 19.84	+32 35.3	2.196	3.100	9.0	18.0	3 12	11 19.63	+ 3 53.8	1.828	2.821	0.9	20.6
3 22	11 11.84	+33 20.0	2.222	3.083	11.0	18.1	3 22	11 10.54	+ 4 50.4	1.853	2.828	5.2	20.9
4 1	11 4.82	+33 37.8	2.271	3.065	13.2	18.2	4 1	11 2.63	+ 5 39.6	1.907	2.834	9.2	21.2
4 11	10 59.53	+33 29.8	2.340	3.047	15.3	18.3	4 11	10 56.60	+ 6 17.0	1.985	2.840	12.6	21.4
<b>424983</b>	2009 <i>BR</i> <sub>159</sub>		3 9.9 57°93	2.4°/ 7.0 17			<b>458904</b>	2011 <i>UP</i> <sub>205</sub>		3 9.9 99°02	4.5°/ 6.3 18		
2 1	11 41.66	+ 7 31.9	2.254	3.060	12.4	21.0	2 1	11 50.60	+12 23.4	1.567	2.387	16.2	21.5
2 11	11 38.47	+ 8 38.2	2.172	3.062	9.5	20.8	2 11	11 46.10	+13 19.8	1.503	2.399	12.5	21.3
2 21	11 33.45	+ 9 54.3	2.115	3.065	6.2	20.6	2 21	11 38.85	+14 23.2	1.462	2.411	8.4	21.1
3 2	11 27.08	+11 14.7	2.085	3.067	3.1	20.4	3 2	11 29.58	+15 25.3	1.446	2.423	5.0	20.9
3 12	11 20.08	+12 32.3	2.085	3.070	3.1	20.4	3 12	11 19.47	+16 16.6	1.457	2.435	5.3	21.0
3 22	11 13.23	+13 40.7	2.114	3.072	6.2	20.6	3 22	11 9.80	+16 50.4	1.495	2.446	8.9	21.2
4 1	11 7.29	+14 34.9	2.170	3.075	9.4	20.8	4 1	11 1.75	+17 2.7	1.558	2.458	12.7	21.5
4 11	11 2.90	+15 12.0	2.250	3.077	12.3	21.0	4 11	10 56.13	+16 53.4	1.642	2.469	16.2	21.7
<b>236964</b>	2007 <i>UX</i> <sub>118</sub>		3 9.9 316°22	5°1/ 5.1 17			<b>119982</b>	2002 <i>XX</i> <sub>29</sub>		3 9.9 64°71	5°3/13.9 18		
2 1	11 46.94	+17 8.9	2.015	2.834	13.2	20.0	2 1	11 48.07	- 9 2.2	1.349	2.119	20.9	19.3
2 11	11 42.90	+17 53.2	1.930	2.823	10.3	19.7	2 11	11 44.66	- 9 29.4	1.277	2.130	17.3	19.1
2 21	11 36.59	+18 39.5	1.869	2.813	7.3	19.5	2 21	11 38.21	- 9 30.0	1.223	2.141	13.0	18.9
3 2	11 28.55	+19 21.0	1.835	2.804	5.3	19.4	3 2	11 29.41	- 9 3.3	1.191	2.153	8.5	18.6
3 12	11 19.69	+19 50.8	1.828	2.794	5.9	19.4	3 12	11 19.50	- 8 13.0	1.182	2.165	5.4	18.5
3 22	11 10.99	+20 3.7	1.848	2.785	8.6	19.5	3 22	11 9.92	- 7 6.7	1.199	2.176	7.0	18.6
4 1	11 3.46	+19 57.2	1.894	2.776	11.8	19.7	4 1	11 2.04	- 5 54.6	1.241	2.188	11.1	18.9
4 11	10 57.84	+19 31.1	1.962	2.767	14.7	19.9	4 11	10 56.83	- 4 47.2	1.305	2.200	15.3	19.1
<b>31582</b>	Miraeparker		3 9.9 328°70	0°6/10.5 18			<b>328349</b>	2008 <i>KF</i> <sub>41</sub>		3 9.9 224°53	2°9/13.2 17		
2 1	11 42.77	- 0 29.7	1.612	2.412	16.8	19.0	2 1	11 43.63	- 8 38.2	2.125	2.869	15.0	22.3
2 11	11 40.17	- 0 6.6	1.522	2.404	13.3	18.8	2 11	11 40.25	- 8 11.6	2.021	2.862	12.3	22.0
2 21	11 35.06	+ 0 35.7	1.453	2.396	9.1	18.5	2 21	11 34.81	- 7 23.5	1.939	2.854	9.1	21.8
3 2	11 27.96	+ 1 33.8	1.407	2.389	4.4	18.2	3 2	11 27.78	- 6 15.2	1.881	2.846	5.6	21.6
3 12	11 19.83	+ 2 41.2	1.389	2.382	1.0	18.0	3 12	11 19.92	- 4 50.9	1.852	2.838	3.0	21.4
3 22	11 11.79	+ 3 49.8	1.397	2.375	5.9	18.3	3 22	11 12.10	- 3 17.5	1.852	2.830	4.8	21.5
4 1	11 5.00	+ 4 51.2	1.430	2.369	10.7	18.5	4 1	11 5.23	- 1 42.8	1.880	2.821	8.4	21.7
4 11	11 0.35	+ 5 38.8	1.487	2.364	14.9	18.8	4 11	11 0.04	- 0 14.8	1.935	2.812	11.9	21.9
<b>68007</b>	2000 <i>XD</i> <sub>52</sub>		3 9.9 170°90	0°6/10.4 18			<b>266224</b>	2006 <i>WS</i> <sub>202</sub>		3 9.9 97°30	4°6/ 5.0 18		
2 1	11 50.25	+ 0 49.2	1.888	2.667	15.5	19.7	2 1	11 44.01	+11 43.7	1.810	2.632	14.3	20.5
2 11	11 45.50	+ 0 58.6	1.800	2.670	12.2	19.4	2 11	11 40.79	+13 14.1	1.737	2.635	10.9	20.3
2 21	11 38.34	+ 1 22.1	1.734	2.672	8.3	19.2	2 21	11 35.25	+14 53.8	1.688	2.638	7.4	20.1
3 2	11 29.36	+ 1 56.8	1.694	2.674	3.9	18.9	3 2	11 27.98	+16 34.0	1.665	2.641	4.8	19.9
3 12	11 19.48	+ 2 37.7	1.683	2.676	0.9	18.7	3 12	11 19.89	+18 4.6	1.671	2.644	5.6	20.0
3 22	11 9.78	+ 3 18.9	1.701	2.677	5.4	19.0	3 22	11 12.02	+19 17.5	1.705	2.647	8.8	20.2
4 1	11 1.32	+ 3 54.6	1.746	2.677	9.6	19.3	4 1	11 5.37	+20 7.4	1.763	2.650	12.3	20.4
4 11	10 54.89	+ 4 20.3	1.816	2.677	13.3	19.5	4 11	11 0.69	+20 32.6	1.843	2.653	15.4	20.6
<b>172058</b>	2001 <i>XN</i> <sub>201</sub>		3 9.9 71°73	0°6/ 9.2 18			<b>361708</b>	2007 <i>VG</i> <sub>258</sub>		3 9.9 286°76	0°6/ 9.4 16		
2 1	11 42.90	+ 3 31.1	2.370	3.159	12.4	20.5	2 1	11 43.62	+ 1 11.0	1.556	2.362	17.0	21.0
2 11	11 39.27	+ 4 2.7	2.288	3.167	9.6	20.3	2 11	11 41.02	+ 1 58.7	1.461	2.349	13.4	20.8
2 21	11 33.90	+ 4 44.8	2.230	3.174	6.3	20.1	2 21	11 35.76	+ 3 7.2	1.388	2.335	9.0	20.5
3 2	11 27.26	+ 5 33.6	2.199	3.182	2.8	19.9	3 2	11 28.36	+ 4 32.0	1.339	2.322	4.0	20.1
3 12	11 20.04	+ 6 24.1	2.197	3.189	1.2	19.8	3 12	11 19.77	+ 6 4.4	1.316	2.309	1.5	19.9
3 22	11 13.00	+ 7 11.2	2.225	3.197	4.7	20.1	3 22	11 11.20	+ 7 34.1	1.321	2.296	6.8	20.2
4 1	11 6.87	+ 7 50.6	2.281	3.205	8.1	20.3	4 1	11 3.91	+ 8 51.4	1.351	2.283	11.8	20.5
4 11	11 2.21	+ 8 18.9	2.362	3.213	11.0	20.5	4 11	10 58.87	+ 9 49.3	1.404	2.270	16.2	20.7
<b>338540</b>	2003 <i>SR</i> <sub>10</sub>		3 9.9 239°98	0°7/10.7 17			<b>159279</b>	2006 <i>AB</i> <sub>13</sub>		3 9.9 95°15	1°7/ 8.2 18		
2 1	11 44.85	- 0 43.1	2.327	3.098	13.1	22.0	2 1	11 45.01	+ 5 14.7	1.943	2.745	14.2	20.6
2 11	11 40.98	- 0 22.4	2.221	3.086	10.4	21.7	2 11	11 41.28	+ 6 6.0	1.869	2.755	11.0	20.4
2 21	11 35.19	+ 0 12.0	2.139	3.075	7.2	21.5	2 21	11 35.42	+ 7 9.4	1.817	2.766	7.2	20.2
3 2	11 27.91	+ 0 57.8	2.084	3.063	3.5	21.3	3 2	11 28.00	+ 8 19.1	1.793	2.776	3.2	20.0
3 12	11 19.85	+ 1 50.5	2.057	3.050	0.9	21.0	3 12	11 19.90	+ 9 28.1	1.797	2.787	2.3	20.0
3 22	11 11.82	+ 2 44.9	2.061	3.037	4.5	21.3	3 22	11 12.04	+10 29.4	1.830	2.797	6.1	20.2
4 1	11 4.64	+ 3 35.6	2.093	3.024	8.2	21.5	4 1	11 5.34	+11 17.3	1.889	2.807	9.9	20.5
4 11	10 59.01	+ 4 17.8	2.150	3.011	11.6	21.7	4 11	11 0.47	+11 48.8	1.973	2.817	13.2	20.7
<b>489592</b>	2007 <i>TP</i> <sub>140</sub>		3 9.9 222°03	1°8/ 8.3 17			<b>519458</b>	2012 <i>AN</i> <sub>25</sub>		3 9.9 13°85	0°9/ 9.3 16		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>383692</b>	2007 <i>TW</i> <sub>360</sub>		3 9.9 313°08	3°1/ 6.5	17		<b>194919</b>	2002 <i>AU</i> <sub>122</sub>		3 9.9 100°08	2°3/ 7.9	18	
2 1	11 42.53	+ 9 53.0	2.077	2.891	13.0	20.7	2 1	11 51.18	+ 6 37.3	1.658	2.461	16.2	20.6
2 11	11 39.40	+10 50.9	1.989	2.883	10.0	20.4	2 11	11 46.26	+ 7 28.9	1.598	2.485	12.4	20.4
2 21	11 34.23	+11 57.8	1.925	2.875	6.6	20.2	2 21	11 38.79	+ 8 32.2	1.560	2.508	8.1	20.2
3 2	11 27.51	+13 7.5	1.888	2.868	3.6	20.0	3 2	11 29.52	+ 9 40.1	1.548	2.530	3.7	20.0
3 12	11 20.02	+14 12.8	1.879	2.860	3.8	20.0	3 12	11 19.54	+10 44.2	1.564	2.552	3.0	20.0
3 22	11 12.64	+15 7.1	1.898	2.853	7.0	20.2	3 22	11 10.05	+11 37.1	1.609	2.573	7.0	20.3
4 1	11 6.25	+15 45.6	1.944	2.846	10.5	20.4	4 1	11 2.10	+12 13.7	1.680	2.594	11.1	20.6
4 11	11 1.57	+16 5.7	2.013	2.839	13.6	20.6	4 11	10 56.43	+12 31.6	1.774	2.614	14.6	20.8
<b>39291</b>	2001 <i>DG</i>		3 9.9 285°77	0°1/10.1	18		<b>25899</b>	Namratanand		3 9.9 105°52	0°2/ 9.8	18	
2 1	11 45.44	+ 1 50.3	2.013	2.801	14.3	19.4	2 1	11 48.20	+ 1 7.6	1.725	2.515	16.2	19.3
2 11	11 41.69	+ 2 4.6	1.920	2.796	11.2	19.1	2 11	11 43.96	+ 1 46.1	1.654	2.532	12.6	19.1
2 21	11 35.78	+ 2 31.8	1.849	2.791	7.6	18.9	2 21	11 37.31	+ 2 40.9	1.605	2.548	8.4	18.8
3 2	11 28.22	+ 3 8.9	1.804	2.786	3.5	18.6	3 2	11 28.88	+ 3 47.2	1.582	2.564	3.8	18.6
3 12	11 19.83	+ 3 51.0	1.787	2.780	0.8	18.4	3 12	11 19.70	+ 4 57.6	1.587	2.580	1.1	18.4
3 22	11 11.55	+ 4 32.3	1.799	2.775	5.1	18.7	3 22	11 10.87	+ 6 4.1	1.621	2.595	5.8	18.8
4 1	11 4.31	+ 5 7.6	1.839	2.771	9.2	18.9	4 1	11 3.40	+ 7 0.1	1.681	2.610	10.1	19.1
4 11	10 58.87	+ 5 32.6	1.903	2.766	12.7	19.2	4 11	10 58.05	+ 7 40.9	1.765	2.624	13.8	19.3
<b>134227</b>	2005 <i>XT</i> <sub>80</sub>		3 9.9 256°81	12°1/14.6	18		<b>458738</b>	2011 <i>QB</i> <sub>18</sub>		3 9.9 168°59	1°2/ 8.8	18	
2 1	12 0.13	-13 58.4	1.271	2.002	23.9	19.3	2 1	11 49.89	+ 4 6.8	2.056	2.841	14.1	22.9
2 11	11 55.17	-16 24.3	1.182	1.996	20.9	19.1	2 11	11 45.01	+ 4 52.5	1.971	2.847	11.0	22.7
2 21	11 46.13	-18 32.4	1.109	1.989	17.5	18.8	2 21	11 37.91	+ 5 50.9	1.908	2.852	7.2	22.5
3 2	11 33.43	-20 12.7	1.057	1.982	14.1	18.6	3 2	11 29.16	+ 6 57.0	1.874	2.857	3.2	22.3
3 12	11 18.39	-21 16.7	1.028	1.975	12.2	18.5	3 12	11 19.62	+ 8 4.1	1.869	2.860	1.8	22.2
3 22	11 2.97	-21 41.3	1.023	1.968	12.8	18.5	3 22	11 10.27	+ 9 5.4	1.894	2.862	5.8	22.4
4 1	10 49.38	-21 31.0	1.041	1.961	15.7	18.6	4 1	11 2.07	+ 9 55.2	1.947	2.864	9.7	22.7
4 11	10 39.32	-20 58.1	1.079	1.953	19.4	18.8	4 11	10 55.74	+10 30.0	2.025	2.864	13.1	22.9
<b>126790</b>	2002 <i>EY</i> <sub>19</sub>		3 9.9 55°94	1°2/ 8.9	18		<b>468771</b>	2011 <i>SB</i> <sub>22</sub>		3 9.9 232°29	2°7/13.2	17	
2 1	11 47.19	+ 5 37.6	1.795	2.598	15.2	19.8	2 1	11 42.08	- 7 31.5	2.483	3.224	13.2	22.1
2 11	11 43.16	+ 5 59.0	1.719	2.606	11.7	19.6	2 11	11 38.70	- 7 18.6	2.381	3.220	10.8	21.9
2 21	11 36.77	+ 6 31.4	1.665	2.613	7.7	19.3	2 21	11 33.60	- 6 49.1	2.301	3.216	7.9	21.7
3 2	11 28.65	+ 7 10.1	1.637	2.621	3.4	19.1	3 2	11 27.19	- 6 4.1	2.248	3.212	4.9	21.5
3 12	11 19.74	+ 7 49.0	1.637	2.628	1.9	19.0	3 12	11 20.13	- 5 7.0	2.223	3.208	2.7	21.4
3 22	11 11.11	+ 8 22.0	1.665	2.636	6.1	19.3	3 22	11 13.14	- 4 2.5	2.227	3.204	4.2	21.4
4 1	11 3.76	+ 8 44.3	1.719	2.644	10.2	19.5	4 1	11 6.94	- 2 56.2	2.260	3.200	7.2	21.6
4 11	10 58.45	+ 8 53.0	1.797	2.652	13.7	19.8	4 11	11 2.15	- 1 53.9	2.319	3.196	10.3	21.8
<b>98338</b>	2000 <i>SB</i> <sub>296</sub>		3 9.9 200°42	1°0/10.8	18		<b>425232</b>	2009 <i>VP</i> <sub>113</sub>		3 9.9 138°23	3°2/ 6.9	17	
2 1	11 50.40	- 0 41.6	2.166	2.929	14.2	20.3	2 1	11 47.12	+10 44.0	1.964	2.774	13.8	21.7
2 11	11 45.41	- 0 30.8	2.065	2.925	11.3	20.1	2 11	11 42.97	+11 29.2	1.885	2.777	10.6	21.5
2 21	11 38.22	- 0 6.0	1.987	2.920	7.8	19.9	2 21	11 36.60	+12 21.6	1.830	2.779	7.1	21.3
3 2	11 29.32	+ 0 30.3	1.936	2.914	3.9	19.6	3 2	11 28.58	+13 15.0	1.802	2.782	3.8	21.1
3 12	11 19.55	+ 1 13.9	1.914	2.907	1.1	19.4	3 12	11 19.79	+14 2.7	1.802	2.784	3.9	21.1
3 22	11 9.84	+ 1 59.6	1.923	2.899	4.8	19.6	3 22	11 11.23	+14 38.5	1.831	2.786	7.1	21.3
4 1	11 1.15	+ 2 41.9	1.960	2.891	8.8	19.9	4 1	11 3.85	+14 58.5	1.885	2.788	10.7	21.5
4 11	10 54.26	+ 3 15.9	2.023	2.881	12.3	20.1	4 11	10 58.38	+15 1.1	1.963	2.790	13.9	21.7
<b>34095</b>	2000 <i>PW</i> <sub>11</sub>		3 9.9 266°24	5°9/ 3.2	18		<b>214987</b>	2008 <i>AO</i> <sub>117</sub>		3 9.9 256°59	1°0/ 8.7	17	
2 1	11 44.67	+16 5.4	1.947	2.771	13.4	18.2	2 1	11 43.21	+ 5 23.5	2.610	3.399	11.4	21.5
2 11	11 41.37	+17 42.8	1.858	2.755	10.5	18.0	2 11	11 39.49	+ 5 55.4	2.509	3.388	8.8	21.3
2 21	11 35.74	+19 27.3	1.794	2.739	7.6	17.8	2 21	11 34.08	+ 6 36.2	2.432	3.377	5.8	21.1
3 2	11 28.27	+21 9.8	1.758	2.723	5.9	17.7	3 2	11 27.41	+ 7 22.4	2.383	3.366	2.6	20.9
3 12	11 19.82	+22 40.1	1.749	2.706	7.0	17.7	3 12	11 20.09	+ 8 9.4	2.363	3.354	1.6	20.8
3 22	11 11.40	+23 50.1	1.767	2.689	9.9	17.8	3 22	11 12.82	+ 8 52.6	2.374	3.342	4.8	21.0
4 1	11 4.07	+24 34.6	1.810	2.672	13.2	18.0	4 1	11 6.31	+ 9 27.9	2.413	3.330	8.0	21.2
4 11	10 58.67	+24 52.4	1.874	2.655	16.2	18.2	4 11	11 1.15	+ 9 52.1	2.477	3.318	10.9	21.4
<b>19790</b>	2000 <i>RU</i> <sub>10</sub>		3 9.9 65°72	5°5/ 4.8	18		<b>162210</b>	1999 <i>SM</i> <sub>5</sub>		3 9.9 326°10	2°8/10.9	13	CR
2 1	11 48.24	+16 12.5	1.757	2.580	14.6	17.8	2 1	11 57.33	- 1 30.8	1.284	2.071	20.9	22.3
2 11	11 43.89	+17 22.1	1.706	2.602	11.3	17.6	2 11	11 54.77	- 1 52.7	1.111	1.983	17.9	21.7
2 21	11 37.16	+18 33.9	1.678	2.624	7.9	17.5	2 21	11 47.80	- 1 56.1	0.955	1.892	13.5	21.2
3 2	11 28.76	+19 39.3	1.677	2.645	5.7	17.4	3 2	11 35.51	- 1 36.4	0.820	1.797	7.6	20.5
3 12	11 19.74	+20 29.9	1.702	2.667	6.4	17.5	3 12	11 17.43	- 0 50.8	0.708	1.700	3.0	19.8
3 22	11 11.21	+21 0.4	1.755	2.689	9.1	17.7	3 22	10 54.03	+ 0 19.4	0.622	1.600	11.1	19.8
4 1	11 4.13	+21 8.4	1.832	2.711	12.3	17.9	4 1	10 27.28	+ 1 45.8	0.561	1.496	22.1	19.8
4 11	10 59.20	+20 54.9	1.931	2.733	15.0	18.1	4 11	10 0.30	+ 3 13.2	0.520	1.390	34.0	19.8
<b>297062</b>	2010 <i>JC</i> <sub>29</sub>		3 9.9 197°04	2°4/ 6.9	17		<b>456806</b>	2007 <i>TZ</i> <sub>299</sub>		3 9.9 206°78	0°7/10.6	17	
2 1	11 41.98	+ 8 0.5	2.379	3.183	11.9	20.5	2 1	11 48.57	- 0 46.8	2.100	2.870	14.4	22.5
2 11	11 38.65	+ 9 6.1	2.294	3.183	9.1	20.3	2 11	11 44.09	- 0 21.4	1.999	2.863	11.4	22.3
2 21	11 33.56	+10 20.8	2.233	3.182	6.0	20.1	2 21	11 37.39	+ 0 19.4	1.921	2.857	7.8	22.1
3 2	11 27.16	+11 39.4	2.200	3.181	3.0	19.9	3 2	11 28.98	+ 1 13.0	1.870	2.849	3.8	21.8
3 12	11 20.13	+12 55.2	2.197	3.180	3.1	19.9	3 12	11 19.67	+ 2 14.2	1.847	2.840	0.9	21.5
3 22	11 13.22	+14 2.0	2.223	3.179	6.0	20.1	3 22	11 10.42	+ 3 16.6	1.855	2.831	5.0	21.8
4 1	11 7.18	+14 55.2	2.277	3.178	9.2	20.3	4 1	11 2.18	+ 4 14.0	1.891	2.821	9.1	22.0
4 11	11 2.60	+15 31.9	2.355	3.177	12.0	20.5	4 11	10 55.74	+ 5 0.9	1.952	2.810	12.7	22.2
<b>17921</b>	Aldeobaldia		3 9.9 318°82	4°7/ 5.9	18		<b>128085</b>	2003 <i>OT</i> <sub>29</sub>		3 9.9 255°84	0°7/10.6	17	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>326600</b>	2002 RO <sub>5</sub>		3 9.9 72°56	3°9/12.8	18		<b>94138</b>	2000 YZ <sub>129</sub>		3 9.9 145°93	2°6/ 7.1	18	
2 1	11 56.80	- 5 40.1	1.702	2.450	18.1	20.8	2 1	11 46.04	+ 9 5.2	2.219	3.021	12.7	20.1
2 11	11 50.46	- 6 20.9	1.642	2.485	14.6	20.7	2 11	11 41.86	+ 9 59.0	2.141	3.028	9.7	19.9
2 21	11 41.50	- 6 43.3	1.603	2.519	10.6	20.5	2 21	11 35.73	+11 0.9	2.087	3.035	6.4	19.7
3 2	11 30.73	- 6 47.6	1.589	2.553	6.5	20.3	3 2	11 28.16	+12 5.1	2.060	3.041	3.3	19.5
3 12	11 19.28	- 6 36.4	1.603	2.587	3.9	20.2	3 12	11 19.95	+13 5.1	2.063	3.047	3.3	19.5
3 22	11 8.41	- 6 14.5	1.646	2.620	5.8	20.4	3 22	11 11.94	+13 55.2	2.096	3.052	6.3	19.7
4 1	10 59.20	- 5 48.0	1.716	2.652	9.4	20.7	4 1	11 4.95	+14 31.2	2.156	3.058	9.6	19.9
4 11	10 52.39	- 5 22.9	1.811	2.684	12.8	21.0	4 11	10 59.63	+14 50.9	2.239	3.062	12.5	20.1
<b>157893</b>	1999 SU <sub>22</sub>		3 9.9 198°24	0°3/ 9.6	17		<b>54488</b>	2000 OG <sub>32</sub>		3 9.9 212°65	3°4/13.7	18	
2 1	11 46.46	+ 2 52.9	2.509	3.286	12.1	21.5	2 1	11 44.90	- 8 17.7	2.529	3.259	13.2	19.5
2 11	11 42.02	+ 3 18.1	2.412	3.282	9.5	21.3	2 11	11 40.86	- 8 32.1	2.427	3.256	10.9	19.3
2 21	11 35.78	+ 3 53.8	2.338	3.279	6.3	21.1	2 21	11 35.04	- 8 31.5	2.347	3.254	8.2	19.1
3 2	11 28.18	+ 4 36.7	2.292	3.274	2.8	20.9	3 2	11 27.87	- 8 16.2	2.293	3.251	5.4	18.9
3 12	11 19.91	+ 5 22.4	2.277	3.269	0.9	20.7	3 12	11 20.02	- 7 48.1	2.268	3.248	3.5	18.8
3 22	11 11.74	+ 6 6.2	2.292	3.264	4.5	21.0	3 22	11 12.22	- 7 10.8	2.271	3.245	4.5	18.8
4 1	11 4.41	+ 6 43.7	2.335	3.258	8.0	21.2	4 1	11 5.22	- 6 28.7	2.304	3.241	7.3	19.0
4 11	10 58.55	+ 7 11.4	2.405	3.252	11.0	21.4	4 11	10 59.67	- 5 47.0	2.362	3.238	10.1	19.2
<b>135380</b>	2001 TY <sub>158</sub>		3 9.9 235°43	0°5/ 9.3	17		<b>511625</b>	2015 BZ <sub>88</sub>		3 9.9 68°15	2°0/ 7.9	17	
2 1	11 43.80	+ 3 19.7	2.538	3.321	11.8	20.4	2 1	11 44.10	+ 6 24.3	1.973	2.779	13.9	21.5
2 11	11 39.99	+ 3 50.9	2.437	3.312	9.2	20.2	2 11	11 40.64	+ 7 14.2	1.893	2.782	10.7	21.3
2 21	11 34.44	+ 4 32.6	2.360	3.303	6.1	20.0	2 21	11 35.06	+ 8 15.5	1.836	2.785	7.0	21.1
3 2	11 27.59	+ 5 21.4	2.311	3.294	2.7	19.8	3 2	11 27.91	+ 9 22.4	1.805	2.788	3.2	20.8
3 12	11 20.06	+ 6 12.9	2.292	3.284	1.1	19.6	3 12	11 20.02	+10 27.9	1.803	2.791	2.7	20.8
3 22	11 12.60	+ 7 1.9	2.302	3.274	4.6	19.9	3 22	11 12.32	+11 25.3	1.829	2.794	6.3	21.0
4 1	11 5.92	+ 7 44.1	2.341	3.264	8.0	20.1	4 1	11 5.72	+12 9.1	1.882	2.797	10.0	21.3
4 11	11 0.64	+ 8 15.8	2.406	3.253	11.0	20.3	4 11	11 0.90	+12 36.2	1.958	2.800	13.3	21.5
<b>283027</b>	2007 VQ <sub>321</sub>		3 9.9 140°88	3°1/ 5.7	17		<b>68526</b>	2001 VC <sub>44</sub>		3 9.9 212°84	3°8/ 5.8	18	
2 1	11 43.19	+11 14.1	2.654	3.458	10.8	21.0	2 1	11 48.26	+13 32.2	2.294	3.098	12.2	19.7
2 11	11 39.35	+12 27.2	2.578	3.467	8.2	20.8	2 11	11 43.66	+14 26.7	2.204	3.091	9.5	19.5
2 21	11 33.90	+13 46.2	2.528	3.476	5.5	20.7	2 21	11 37.00	+15 26.4	2.139	3.084	6.5	19.3
3 2	11 27.29	+15 5.5	2.508	3.484	3.3	20.5	3 2	11 28.79	+16 25.0	2.102	3.076	4.1	19.1
3 12	11 20.15	+16 18.9	2.517	3.492	3.7	20.6	3 12	11 19.81	+17 16.1	2.094	3.067	4.5	19.1
3 22	11 13.18	+17 21.3	2.556	3.500	6.2	20.7	3 22	11 10.94	+17 54.1	2.115	3.058	7.3	19.3
4 1	11 7.02	+18 8.9	2.623	3.507	8.8	20.9	4 1	11 3.06	+18 15.5	2.164	3.048	10.4	19.5
4 11	11 2.22	+18 40.0	2.715	3.514	11.2	21.1	4 11	10 56.88	+18 19.1	2.236	3.038	13.2	19.6
<b>208696</b>	2002 HS <sub>2</sub>		3 9.9 250°38	1°0/ 8.9	18		<b>322303</b>	2011 FN <sub>114</sub>		3 9.9 214°36	2°7/12.5	17	
2 1	11 45.10	+ 2 15.0	1.720	2.520	15.9	20.3	2 1	11 45.31	- 5 16.4	2.012	2.772	15.3	20.7
2 11	11 41.91	+ 3 8.6	1.625	2.510	12.4	20.1	2 11	11 41.62	- 5 19.3	1.919	2.772	12.4	20.5
2 21	11 36.22	+ 4 20.6	1.552	2.499	8.3	19.8	2 21	11 35.76	- 5 4.9	1.848	2.771	8.9	20.3
3 2	11 28.54	+ 5 46.0	1.504	2.488	3.6	19.5	3 2	11 28.27	- 4 34.3	1.801	2.771	5.3	20.0
3 12	11 19.80	+ 7 16.4	1.485	2.476	1.8	19.4	3 12	11 19.94	- 3 51.1	1.783	2.771	2.7	19.9
3 22	11 11.11	+ 8 42.5	1.493	2.465	6.6	19.6	3 22	11 11.73	- 3 0.5	1.792	2.770	4.9	20.0
4 1	11 3.59	+ 9 55.7	1.528	2.453	11.2	19.9	4 1	11 4.56	- 2 8.9	1.829	2.770	8.6	20.2
4 11	10 58.16	+10 50.2	1.585	2.441	15.3	20.1	4 11	10 59.20	- 1 22.2	1.891	2.770	12.1	20.4
<b>190376</b>	1999 RE <sub>104</sub>		3 9.9 245°95	4°7/14.2	17		<b>140266</b>	2001 SW <sub>270</sub>		3 9.9 89°64	2°1/11.9	18	
2 1	11 48.66	-10 20.9	2.316	3.033	14.6	20.4	2 1	11 46.94	- 4 0.6	1.867	2.635	16.0	19.6
2 11	11 44.11	-10 55.4	2.202	3.019	12.3	20.1	2 11	11 42.88	- 3 54.0	1.791	2.649	12.8	19.4
2 21	11 37.43	-11 13.8	2.109	3.005	9.6	19.9	2 21	11 36.56	- 3 29.5	1.735	2.664	9.0	19.2
3 2	11 29.04	-11 15.1	2.042	2.990	6.7	19.7	3 2	11 28.59	- 2 49.3	1.704	2.678	5.0	19.0
3 12	11 19.68	-10 59.8	2.002	2.974	4.8	19.6	3 12	11 19.87	- 1 58.1	1.701	2.692	2.1	18.9
3 22	11 10.24	-10 30.7	1.991	2.959	5.6	19.6	3 22	11 11.43	- 1 2.2	1.727	2.705	5.0	19.1
4 1	11 1.66	- 9 52.6	2.009	2.942	8.4	19.7	4 1	11 4.21	- 0 8.2	1.780	2.719	8.9	19.3
4 11	10 54.73	- 9 11.3	2.052	2.926	11.5	19.9	4 11	10 58.94	+ 0 37.9	1.857	2.732	12.4	19.6
<b>82097</b>	2001 FD <sub>7</sub>		3 9.9 236°85	8°7/20.4	18		<b>114695</b>	2003 FS <sub>102</sub>		3 9.9 222°44	1°8/11.6	18	
2 1	11 47.96	-28 5.6	1.894	2.514	20.2	19.8	2 1	11 47.81	- 4 1.5	1.936	2.700	15.7	20.0
2 11	11 44.27	-27 26.9	1.772	2.501	18.2	19.6	2 11	11 43.77	- 3 40.9	1.832	2.690	12.6	19.8
2 21	11 37.89	-26 7.1	1.665	2.487	15.5	19.3	2 21	11 37.36	- 3 1.0	1.750	2.679	9.0	19.6
3 2	11 29.34	-24 0.5	1.578	2.472	12.4	19.1	3 2	11 29.06	- 2 3.7	1.693	2.668	4.8	19.3
3 12	11 19.60	-21 6.8	1.518	2.456	9.7	18.9	3 12	11 19.74	- 0 53.9	1.664	2.656	1.8	19.1
3 22	11 9.87	-17 33.6	1.487	2.440	8.7	18.8	3 22	11 10.41	+ 0 21.5	1.665	2.643	5.2	19.2
4 1	11 1.39	-13 36.1	1.487	2.423	10.6	18.9	4 1	11 2.14	+ 1 34.7	1.693	2.629	9.5	19.5
4 11	10 55.16	- 9 34.4	1.518	2.405	14.0	19.0	4 11	10 55.81	+ 2 38.6	1.746	2.615	13.4	19.7
<b>431548</b>	2007 TU <sub>440</sub>		3 9.9 113°93	0°1/10.1	17		<b>372638</b>	2009 VR <sub>101</sub>		3 9.9 120°01	1°8/ 8.3	18	
2 1	11 47.10	+ 2 29.1	2.470	3.244	12.3	21.4	2 1	11 47.73	+ 7 21.0	1.950	2.751	14.2	20.9
2 11	11 42.40	+ 2 38.9	2.388	3.257	9.6	21.2	2 11	11 43.47	+ 7 47.9	1.868	2.754	11.0	20.6
2 21	11 35.94	+ 2 58.3	2.331	3.270	6.4	21.0	2 21	11 36.96	+ 8 24.0	1.809	2.757	7.2	20.4
3 2	11 28.21	+ 3 24.5	2.301	3.282	2.9	20.8	3 2	11 28.79	+ 9 4.5	1.777	2.760	3.3	20.2
3 12	11 19.93	+ 3 53.6	2.301	3.294	0.7	20.6	3 12	11 19.83	+ 9 43.3	1.773	2.763	2.4	20.1
3 22	11 11.86	+ 4 21.7	2.331	3.306	4.3	20.9	3 22	11 11.10	+10 14.8	1.798	2.765	6.2	20.4
4 1	11 4.72	+ 4 45.0	2.390	3.317	7.6	21.1	4 1	11 3.54	+10 34.5	1.850	2.768	10.0	20.6
4 11	10 59.10	+ 5 0.5	2.475	3.328	10.5	21.3	4 11	10 57.90	+10 40.2	1.925	2.770	13.4	20.8
<b>415368</b>	2013 KO <sub>14</sub>		3 9.9 198°21	4°2/ 6.1	18		<b>22762</b>	1998 YM <sub>12</sub>		3 9.9 151°82	1°1/ 8.7	18	
2 1	11 49.46	+12 37.9	1.878	2.690	14.3	21.							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>206955</b>	2004 RA <sub>324</sub>		3 9.9 130°96	4°1/13.5 18			<b>228031</b>	2008 GS <sub>1</sub>		3 9.9 301°77	2°5/12.1 17		
2 1	11 49.23	- 8 14.1	1.709	2.461	17.9	21.1	2 1	11 42.81	- 4 58.3	1.670	2.450	17.1	20.4
2 11	11 45.00	- 8 27.3	1.626	2.469	14.7	20.8	2 11	11 40.43	- 4 47.7	1.556	2.421	14.0	20.1
2 21	11 38.19	- 8 18.7	1.563	2.478	10.9	20.6	2 21	11 35.48	- 4 14.6	1.461	2.393	10.2	19.8
3 2	11 29.41	- 7 48.4	1.523	2.486	6.9	20.4	3 2	11 28.36	- 3 19.3	1.390	2.364	5.8	19.4
3 12	11 19.67	- 6 59.9	1.510	2.494	4.2	20.3	3 12	11 19.92	- 2 6.2	1.345	2.336	2.5	19.2
3 22	11 10.14	- 5 59.3	1.525	2.501	5.9	20.4	3 22	11 11.27	- 0 42.7	1.327	2.307	5.8	19.3
4 1	11 1.97	- 4 54.8	1.566	2.508	9.7	20.6	4 1	11 3.66	+ 0 41.7	1.335	2.279	10.7	19.5
4 11	10 56.01	- 3 54.4	1.632	2.515	13.5	20.8	4 11	10 58.16	+ 1 57.5	1.366	2.252	15.4	19.7
<b>113330</b>	2002 RU <sub>207</sub>		3 9.9 101°27	0°0/ 9.9 18			<b>330444</b>	2007 DP <sub>96</sub>		3 9.9 63°47	0°2/10.2 18		
2 1	11 44.01	+ 1 26.4	2.232	3.015	13.2	20.2	2 1	11 41.44	- 3 47.7	1.823	2.604	15.8	20.8
2 11	11 40.27	+ 1 59.1	2.150	3.024	10.3	20.0	2 11	11 38.79	- 2 22.6	1.736	2.607	12.5	20.6
2 21	11 34.67	+ 2 44.4	2.092	3.033	6.9	19.8	2 21	11 33.96	- 0 33.1	1.672	2.611	8.5	20.4
3 2	11 27.70	+ 3 38.7	2.060	3.042	3.1	19.6	3 2	11 27.48	+ 1 35.2	1.635	2.615	3.9	20.1
3 12	11 20.12	+ 4 36.7	2.058	3.051	0.8	19.4	3 12	11 20.20	+ 3 52.8	1.626	2.619	0.9	19.9
3 22	11 12.72	+ 5 32.7	2.085	3.059	4.7	19.7	3 22	11 13.08	+ 6 8.6	1.648	2.624	5.6	20.2
4 1	11 6.29	+ 6 21.5	2.140	3.068	8.3	20.0	4 1	11 7.07	+ 8 11.9	1.697	2.628	9.9	20.5
4 11	11 1.45	+ 6 59.0	2.220	3.076	11.4	20.2	4 11	11 2.92	+ 9 55.0	1.772	2.632	13.7	20.7
<b>329793</b>	2004 PZ <sub>62</sub>		3 9.9 259°79	1°8/11.9 17			<b>364711</b>	2007 VL <sub>36</sub>		3 9.9 3°60	4°2/13.4 16		
2 1	11 43.28	- 5 12.1	2.044	2.807	14.9	21.6	2 1	11 42.20	- 7 47.0	1.325	2.112	20.4	21.1
2 11	11 40.15	- 4 37.2	1.935	2.792	12.1	21.4	2 11	11 40.27	- 7 53.7	1.245	2.111	16.8	20.9
2 21	11 34.88	- 3 41.7	1.848	2.776	8.6	21.1	2 21	11 35.43	- 7 32.8	1.183	2.111	12.4	20.6
3 2	11 27.92	- 2 27.5	1.786	2.761	4.7	20.9	3 2	11 28.29	- 6 44.3	1.143	2.112	7.7	20.4
3 12	11 20.04	- 0 59.7	1.753	2.744	1.8	20.6	3 12	11 19.98	- 5 33.3	1.126	2.113	4.3	20.2
3 22	11 12.13	+ 0 34.2	1.749	2.728	4.9	20.8	3 22	11 11.84	- 4 8.8	1.134	2.115	6.5	20.3
4 1	11 5.15	+ 2 5.9	1.773	2.711	9.0	21.0	4 1	11 5.23	- 2 42.2	1.167	2.118	11.2	20.6
4 11	10 59.90	+ 3 27.8	1.822	2.694	12.8	21.2	4 11	11 1.15	- 1 24.5	1.221	2.122	15.7	20.8
<b>86324</b>	1999 WA <sub>2</sub>		3 9.9 176°86	15°6/27.3 18			<b>111181</b>	2001 WB <sub>4</sub>		3 9.9 128°33	2°1/12.5 17		
2 1	12 5.88	-43 33.2	2.387	2.809	19.8	20.8	2 1	11 42.97	- 5 32.1	2.521	3.269	12.8	20.5
2 11	11 58.80	-45 40.1	2.294	2.814	19.0	20.7	2 11	11 39.31	- 5 20.2	2.428	3.274	10.3	20.4
2 21	11 48.11	-47 21.3	2.214	2.818	18.0	20.6	2 21	11 33.97	- 4 53.5	2.358	3.279	7.4	20.2
3 2	11 34.25	-48 27.5	2.149	2.820	17.0	20.5	3 2	11 27.39	- 4 13.6	2.315	3.284	4.3	20.0
3 12	11 18.35	-48 51.7	2.101	2.821	16.2	20.4	3 12	11 20.23	- 3 23.8	2.300	3.288	2.1	19.8
3 22	11 10.77	-48 30.8	2.072	2.820	15.7	20.4	3 22	11 13.18	- 2 28.8	2.315	3.293	4.0	20.0
4 1	10 47.22	-47 27.6	2.064	2.817	15.7	20.4	4 1	11 6.96	- 1 33.7	2.359	3.297	7.1	20.2
4 11	10 35.28	-45 51.0	2.076	2.813	16.1	20.4	4 11	11 2.13	- 0 43.4	2.429	3.301	10.0	20.4
<b>143022</b>	2002 VO <sub>110</sub>		3 9.9 106°31	2°4/ 7.5 18			<b>68783</b>	2002 FZ <sub>9</sub>		3 9.9 287°32	2°6/12.1 18		
2 1	11 50.04	+ 8 29.9	2.097	2.893	13.5	19.8	2 1	11 45.90	- 4 32.1	1.573	2.353	18.0	19.3
2 11	11 44.88	+ 9 19.5	2.034	2.918	10.3	19.6	2 11	11 42.73	- 4 29.1	1.484	2.349	14.6	19.0
2 21	11 37.66	+10 16.8	1.996	2.943	6.8	19.5	2 21	11 36.88	- 4 4.4	1.414	2.346	10.4	18.8
3 2	11 29.01	+11 16.0	1.985	2.966	3.3	19.3	3 2	11 28.91	- 3 19.5	1.368	2.342	5.9	18.5
3 12	11 19.81	+12 10.4	2.004	2.990	3.0	19.3	3 12	11 19.82	- 2 19.3	1.348	2.339	2.6	18.3
3 22	11 10.99	+12 54.7	2.053	3.012	6.2	19.5	3 22	11 10.84	- 1 11.4	1.355	2.335	5.8	18.5
4 1	11 3.39	+13 24.9	2.129	3.034	9.6	19.8	4 1	11 3.19	- 0 4.6	1.388	2.332	10.5	18.7
4 11	10 57.64	+13 39.4	2.230	3.055	12.5	20.0	4 11	10 57.83	+ 0 53.0	1.444	2.328	14.8	19.0
<b>236721</b>	2007 GC <sub>22</sub>		3 9.9 303°59	1°2/10.8 18			<b>505084</b>	2011 UO <sub>168</sub>		3 9.9 227°18	2°1/12.6 17		
2 1	11 44.49	- 1 27.0	1.339	2.145	19.2	21.1	2 1	11 41.44	- 6 25.9	2.582	3.328	12.6	22.5
2 11	11 42.18	- 1 11.1	1.248	2.133	15.4	20.8	2 11	11 38.16	- 5 59.6	2.479	3.323	10.2	22.3
2 21	11 36.83	- 0 32.0	1.177	2.120	10.7	20.5	2 21	11 33.24	- 5 17.2	2.399	3.319	7.4	22.1
3 2	11 28.99	+ 0 27.9	1.128	2.108	5.3	20.1	3 2	11 27.08	- 4 20.2	2.345	3.314	4.3	21.9
3 12	11 19.75	+ 1 41.5	1.104	2.097	1.4	19.8	3 12	11 20.31	- 3 12.6	2.321	3.309	2.1	21.8
3 22	11 10.52	+ 2 58.8	1.105	2.085	6.8	20.1	3 22	11 13.60	- 1 59.3	2.326	3.304	3.9	21.9
4 1	11 2.77	+ 4 9.3	1.130	2.074	12.3	20.4	4 1	11 7.64	- 0 46.1	2.361	3.299	7.0	22.1
4 11	10 57.64	+ 5 4.0	1.177	2.063	17.2	20.6	4 11	11 3.02	+ 0 21.4	2.422	3.294	10.0	22.3
<b>102560</b>	1999 UR <sub>25</sub>		3 9.9 104°96	1°0/ 9.0 18			<b>499170</b>	2009 SP <sub>98</sub>		3 9.9 226°94	4°0/14.0 17		
2 1	11 50.02	+ 4 17.1	1.802	2.596	15.5	20.0	2 1	11 45.37	- 9 57.2	2.115	2.848	15.4	21.8
2 11	11 45.26	+ 4 49.6	1.733	2.614	12.0	19.8	2 11	11 41.68	- 9 58.8	2.011	2.841	12.8	21.6
2 21	11 38.12	+ 5 34.6	1.687	2.632	7.9	19.6	2 21	11 35.86	- 9 40.2	1.927	2.833	9.7	21.4
3 2	11 29.28	+ 6 26.9	1.667	2.650	3.5	19.4	3 2	11 28.36	- 9 1.5	1.868	2.825	6.4	21.2
3 12	11 19.74	+ 7 19.7	1.676	2.667	1.7	19.3	3 12	11 19.97	- 8 5.2	1.836	2.816	4.1	21.0
3 22	11 10.56	+ 8 6.5	1.713	2.684	6.0	19.6	3 22	11 11.60	- 6 56.7	1.833	2.807	5.2	21.1
4 1	11 2.76	+ 8 41.9	1.778	2.701	10.0	19.9	4 1	11 4.19	- 5 42.7	1.857	2.798	8.5	21.3
4 11	10 57.04	+ 9 2.8	1.866	2.716	13.5	20.1	4 11	10 58.52	- 4 30.9	1.908	2.788	11.9	21.5
<b>228372</b>	2000 WB <sub>52</sub>		3 9.9 91°74	4°0/14.2 18			<b>212426</b>	2006 OB		3 9.9 231°60	1°8/ 8.2 16		
2 1	11 45.71	-10 9.6	2.034	2.768	15.9	20.8	2 1	11 47.94	+ 5 56.8	1.999	2.795	14.1	21.5
2 11	11 41.79	-10 11.6	1.954	2.784	13.1	20.6	2 11	11 43.78	+ 6 42.9	1.900	2.783	11.0	21.3
2 21	11 35.78	- 9 53.1	1.894	2.800	9.9	20.5	2 21	11 37.32	+ 7 41.4	1.824	2.771	7.3	21.0
3 2	11 28.23	- 9 14.6	1.859	2.816	6.5	20.3	3 2	11 29.05	+ 8 47.2	1.775	2.758	3.3	20.8
3 12	11 20.00	- 8 19.6	1.852	2.831	4.1	20.2	3 12	11 19.80	+ 9 53.3	1.755	2.744	2.5	20.7
3 22	11 11.99	- 7 13.8	1.872	2.847	5.2	20.3	3 22	11 10.58	+10 52.6	1.764	2.729	6.4	20.9
4 1	11 5.11	- 6 4.1	1.921	2.862	8.2	20.5	4 1	11 2.42	+11 39.1	1.800	2.714	10.5	21.1
4 11	11 0.01	- 4 57.7	1.995	2.876	11.4	20.7	4 11	10 56.13	+12 9.0	1.860	2.698	14.1	21.3
<b>103045</b>	1999 XH <sub>128</sub>		3 9.9 113°95	0°3/10.2 18			<b>110853</b>	2001 UT <sub>76</sub>		3 9.9 17°42	3°2/14.5 18		
2 1	11 49.48	+ 0 45.8	1.884	2.665									

EPHEMERIDES

3 9.9

3 10.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>153377</b>	2001 QY <sub>22</sub>		3 9.9 153°78	0°1/10.1 18			<b>322828</b>	2001 SD <sub>294</sub>		3 9.9 149°07	0°8/10.9 18		
2 1	11 49.46	+ 0 9.6	1.887	2.666	15.5	20.7	2 1	11 47.19	- 1 48.4	2.508	3.265	12.7	22.1
2 11	11 44.87	+ 0 46.2	1.805	2.675	12.2	20.4	2 11	11 42.51	- 1 18.1	2.421	3.278	10.0	21.9
2 21	11 37.95	+ 1 39.1	1.744	2.684	8.2	20.2	2 21	11 36.08	- 0 34.3	2.358	3.289	6.8	21.8
3 2	11 29.27	+ 2 44.3	1.710	2.691	3.8	20.0	3 2	11 28.37	+ 0 20.0	2.323	3.300	3.4	21.6
3 12	11 19.77	+ 3 55.2	1.705	2.698	0.9	19.8	3 12	11 20.08	+ 1 20.5	2.317	3.310	0.9	21.4
3 22	11 10.50	+ 5 4.4	1.729	2.704	5.4	20.1	3 22	11 11.96	+ 2 21.8	2.343	3.319	4.1	21.6
4 1	11 2.46	+ 6 5.0	1.781	2.710	9.7	20.4	4 1	11 4.74	+ 3 18.8	2.398	3.328	7.4	21.8
4 11	10 56.43	+ 6 52.0	1.858	2.714	13.3	20.6	4 11	10 59.01	+ 4 7.2	2.480	3.335	10.4	22.1
<b>110065</b>	2001 SU <sub>109</sub>		3 9.9 51°76	6°5/ 3.7 18			<b>345628</b>	2006 SO <sub>300</sub>		3 9.9 114°37	1°8/ 7.7 17		
2 1	11 53.09	+24 38.5	2.301	3.104	12.3	18.5	2 1	11 44.44	+ 7 59.1	2.744	3.535	10.8	21.9
2 11	11 47.31	+25 16.1	2.229	3.105	9.9	18.3	2 11	11 40.21	+ 8 42.0	2.670	3.552	8.3	21.8
2 21	11 39.35	+25 48.8	2.181	3.105	7.7	18.2	2 21	11 34.44	+ 9 31.4	2.621	3.568	5.4	21.6
3 2	11 29.82	+26 10.0	2.160	3.106	6.6	18.1	3 2	11 27.59	+10 23.0	2.602	3.583	2.6	21.4
3 12	11 19.66	+26 14.1	2.168	3.107	7.2	18.2	3 12	11 20.28	+11 12.1	2.612	3.598	2.2	21.4
3 22	11 9.84	+25 58.0	2.203	3.107	9.2	18.3	3 22	11 13.18	+11 54.5	2.653	3.613	4.9	21.6
4 1	11 1.29	+25 21.5	2.264	3.108	11.6	18.4	4 1	11 6.89	+12 26.8	2.722	3.628	7.7	21.8
4 11	10 54.67	+24 26.7	2.348	3.109	13.9	18.6	4 11	11 1.94	+12 47.1	2.817	3.642	10.2	22.0
<b>289890</b>	2005 MK <sub>32</sub>		3 9.9 210°60	1°2/ 8.5 17			<b>170232</b>	2003 QG <sub>22</sub>		3 9.9 162°29	2°2/12.1 18		
2 1	11 45.06	+ 6 51.7	2.991	3.774	10.2	21.2	2 1	11 47.38	- 5 12.1	1.926	2.686	15.9	20.9
2 11	11 40.68	+ 7 17.9	2.891	3.767	7.9	21.0	2 11	11 43.30	- 4 53.5	1.837	2.691	12.8	20.7
2 21	11 34.78	+ 7 50.5	2.817	3.760	5.2	20.9	2 21	11 36.95	- 4 15.4	1.769	2.695	9.1	20.5
3 2	11 27.76	+ 8 26.6	2.771	3.753	2.3	20.6	3 2	11 28.87	- 3 19.8	1.727	2.699	5.1	20.3
3 12	11 20.19	+ 9 2.1	2.756	3.745	1.6	20.6	3 12	11 19.95	- 2 11.7	1.712	2.703	2.2	20.1
3 22	11 12.69	+ 9 33.4	2.772	3.737	4.4	20.8	3 22	11 11.18	- 0 57.9	1.727	2.706	5.0	20.3
4 1	11 5.88	+ 9 57.5	2.817	3.729	7.2	20.9	4 1	11 3.55	+ 0 13.9	1.769	2.708	9.0	20.5
4 11	11 0.29	+10 11.9	2.888	3.720	9.8	21.1	4 11	10 57.85	+ 1 17.0	1.837	2.710	12.7	20.7
<b>422789</b>	2001 WC <sub>17</sub>		3 9.9 107°02	0°5/ 9.5 18			<b>246037</b>	2006 UB <sub>150</sub>		3 9.9 141°19	4°5/ 3.5 17		
2 1	11 48.48	+ 3 9.6	2.005	2.791	14.4	21.9	2 1	11 43.45	+17 25.9	2.736	3.547	10.3	21.4
2 11	11 43.87	+ 3 37.4	1.932	2.808	11.2	21.7	2 11	11 39.58	+18 43.4	2.666	3.555	8.0	21.2
2 21	11 37.12	+ 4 17.3	1.882	2.825	7.4	21.5	2 21	11 34.11	+20 2.5	2.623	3.562	5.8	21.1
3 2	11 28.85	+ 5 5.0	1.859	2.841	3.3	21.2	3 2	11 27.47	+21 17.3	2.608	3.569	4.5	21.0
3 12	11 19.93	+ 5 54.6	1.865	2.857	1.2	21.1	3 12	11 20.31	+22 21.8	2.622	3.576	5.2	21.1
3 22	11 11.31	+ 6 40.3	1.900	2.873	5.3	21.4	3 22	11 13.32	+23 11.5	2.666	3.582	7.3	21.2
4 1	11 3.88	+ 7 17.2	1.963	2.888	9.1	21.7	4 1	11 7.14	+23 43.8	2.736	3.589	9.5	21.4
4 11	10 58.31	+ 7 41.8	2.050	2.903	12.4	21.9	4 11	11 2.33	+23 58.0	2.829	3.594	11.6	21.5
<b>89549</b>	2001 XS <sub>97</sub>		3 9.9 149°08	0°7/10.7 18			<b>354706</b>	2005 RO <sub>29</sub>		3 9.9 212°11	5°5/18.9 18		
2 1	11 47.62	- 0 26.6	2.382	3.146	13.0	20.2	2 1	11 42.38	-22 7.6	3.313	3.939	12.1	21.5
2 11	11 42.94	- 0 5.5	2.295	3.157	10.3	20.1	2 11	11 38.63	-22 8.2	3.196	3.931	10.6	21.4
2 21	11 36.41	+ 0 28.3	2.232	3.166	7.0	19.9	2 21	11 33.45	-21 50.5	3.097	3.923	8.9	21.2
3 2	11 28.52	+ 1 12.0	2.196	3.175	3.4	19.6	3 2	11 27.19	-21 13.3	3.023	3.914	7.2	21.1
3 12	11 20.01	+ 2 1.2	2.191	3.184	0.8	19.5	3 12	11 20.38	-20 17.6	2.975	3.905	5.9	21.0
3 22	11 11.67	+ 2 50.8	2.215	3.191	4.3	19.7	3 22	11 13.60	-19 6.0	2.956	3.896	5.6	21.0
4 1	11 4.28	+ 3 36.0	2.269	3.198	7.8	20.0	4 1	11 7.43	-17 42.8	2.967	3.886	6.6	21.0
4 11	10 58.48	+ 4 12.7	2.348	3.205	10.9	20.2	4 11	11 2.39	-16 13.6	3.005	3.875	8.4	21.1
<b>284382</b>	2006 SV <sub>352</sub>		3 9.9 108°81	1°5/11.9 18			<b>334629</b>	2002 VU <sub>78</sub>		3 9.9 112°88	0°8/11.1 18		
2 1	11 43.86	- 3 41.9	2.658	3.410	12.1	21.4	2 1	11 44.62	- 2 3.9	2.748	3.504	11.7	21.9
2 11	11 39.84	- 3 27.4	2.574	3.424	9.7	21.3	2 11	11 40.32	- 1 33.3	2.670	3.526	9.2	21.8
2 21	11 34.24	- 3 0.0	2.513	3.438	6.8	21.1	2 21	11 34.51	- 0 50.6	2.616	3.547	6.3	21.6
3 2	11 27.50	- 2 21.6	2.479	3.452	3.7	20.9	3 2	11 27.62	+ 0 1.5	2.590	3.567	3.2	21.4
3 12	11 20.27	- 1 35.8	2.475	3.466	1.5	20.8	3 12	11 20.29	+ 0 58.9	2.594	3.587	0.9	21.3
3 22	11 13.20	- 0 46.8	2.501	3.479	3.7	20.9	3 22	11 13.16	+ 1 56.9	2.629	3.606	3.7	21.5
4 1	11 6.95	+ 0 0.8	2.557	3.492	6.7	21.2	4 1	11 6.84	+ 2 51.0	2.694	3.625	6.7	21.8
4 11	11 2.04	+ 0 42.8	2.639	3.505	9.5	21.4	4 11	11 1.84	+ 3 37.6	2.786	3.643	9.3	22.0
<b>124191</b>	2001 OO <sub>63</sub>		3 9.9 136°88	3°9/ 6.5 18			<b>288683</b>	2004 PG <sub>96</sub>		3 9.9 233°05	0°7/10.6 17		
2 1	11 51.21	+10 44.4	1.730	2.539	15.4	20.5	2 1	11 48.91	- 0 35.1	1.818	2.597	15.9	21.9
2 11	11 46.40	+11 50.3	1.661	2.552	11.8	20.3	2 11	11 44.83	- 0 13.1	1.715	2.585	12.7	21.7
2 21	11 39.03	+13 5.0	1.616	2.564	7.9	20.0	2 21	11 38.22	+ 0 26.5	1.634	2.572	8.8	21.4
3 2	11 29.77	+14 20.3	1.597	2.575	4.5	19.9	3 2	11 29.56	+ 1 20.9	1.578	2.558	4.2	21.1
3 12	11 19.70	+15 27.1	1.607	2.586	4.7	19.9	3 12	11 19.76	+ 2 24.4	1.551	2.544	1.0	20.8
3 22	11 9.98	+16 18.1	1.644	2.596	8.2	20.1	3 22	11 9.95	+ 3 29.8	1.552	2.529	5.7	21.1
4 1	11 1.72	+16 48.7	1.708	2.605	12.0	20.4	4 1	11 1.27	+ 4 29.5	1.580	2.513	10.3	21.4
4 11	10 55.71	+16 57.9	1.793	2.613	15.3	20.6	4 11	10 54.67	+ 5 17.1	1.632	2.497	14.4	21.6
<b>64955</b>	2001 YO <sub>128</sub>		3 9.9 149°87	2°8/ 7.5 18			<b>241557</b>	2010 GL <sub>31</sub>		3 10.0 350°80	5°1/ 6.2 18		
2 1	11 52.22	+ 9 18.4	1.896	2.695	14.6	20.1	2 1	11 45.47	+11 9.2	1.233	2.075	18.4	20.8
2 11	11 46.98	+10 3.6	1.820	2.705	11.3	19.9	2 11	11 43.06	+12 14.9	1.163	2.071	14.3	20.5
2 21	11 39.32	+10 57.4	1.768	2.715	7.5	19.6	2 21	11 37.43	+13 33.1	1.113	2.068	9.6	20.2
3 2	11 29.89	+11 53.3	1.743	2.724	3.8	19.4	3 2	11 29.26	+14 53.6	1.086	2.066	5.7	20.0
3 12	11 19.67	+12 44.1	1.748	2.732	3.5	19.4	3 12	11 19.86	+16 3.8	1.084	2.064	6.2	20.0
3 22	11 9.75	+13 23.5	1.781	2.739	7.0	19.7	3 22	11 10.76	+16 53.1	1.106	2.063	10.5	20.3
4 1	11 1.17	+13 47.3	1.841	2.746	10.8	19.9	4 1	11 3.42	+17 15.4	1.150	2.063	15.2	20.5
4 11	10 54.69	+13 53.7	1.925	2.752	14.1	20.1	4 11	10 58.89	+17 9.5	1.213	2.063	19.3	20.8
<b>157343</b>	2004 TU <sub>61</sub>		3 9.9 157°81	0°3/10.3 18			<b>64430</b>	2001 VK <sub>9</sub>		3 10.0 18°65	2°0/ 8.2 18		
2 1	11 45.04	- 0 1.0	2.256	3.031	13.4	20.9							