

EPHEMERIDES

3 5.9

3 6.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>32605</b>	Lucy		3 5.9 285°90	2.5/ 3.4 18			<b>499814</b>	2011 CT <sub>112</sub>		3 6.0 310°90	2.8/ 8.4 17		
2 1	11 29.33	+11 5.1	2.184	3.023	11.5	18.9	2 1	11 28.71	- 3 21.8	1.742	2.551	15.3	21.4
2 11	11 24.73	+11 47.0	2.088	3.002	8.5	18.7	2 11	11 24.65	- 3 19.5	1.651	2.540	12.0	21.1
2 21	11 18.21	+12 35.3	2.018	2.982	5.2	18.4	2 21	11 18.34	- 2 58.6	1.582	2.530	8.1	20.9
3 2	11 10.33	+13 24.6	1.975	2.961	2.6	18.2	3 2	11 10.42	- 2 20.7	1.539	2.520	4.1	20.6
3 12	11 1.90	+14 8.8	1.962	2.939	4.3	18.3	3 12	11 1.87	- 1 30.6	1.523	2.510	3.3	20.5
3 22	10 53.84	+14 42.7	1.977	2.918	7.8	18.5	3 22	10 53.79	- 0 35.0	1.534	2.500	7.1	20.7
4 1	10 47.00	+15 2.5	2.018	2.897	11.3	18.6	4 1	10 47.20	+ 0 19.0	1.570	2.491	11.3	21.0
4 11	10 42.05	+15 6.5	2.081	2.876	14.3	18.8	4 11	10 42.88	+ 1 4.9	1.629	2.482	15.0	21.2
<b>155596</b>	2000 CB <sub>42</sub>		3 5.9 63°48	3°0/ 8.2 18			<b>463138</b>	2011 WZ <sub>108</sub>		3 6.0 141°81	1°8/ 4.3 18		
2 1	11 31.64	- 3 39.4	1.273	2.097	19.0	19.8	2 1	11 34.27	+ 8 0.1	1.909	2.739	13.3	22.3
2 11	11 27.22	- 3 27.0	1.211	2.108	14.8	19.6	2 11	11 28.35	+ 8 49.4	1.842	2.751	9.8	22.1
2 21	11 19.98	- 2 49.5	1.169	2.120	9.8	19.3	2 21	11 20.32	+ 9 47.4	1.800	2.763	5.8	21.8
3 2	11 10.85	- 1 50.5	1.150	2.133	4.7	19.1	3 2	11 10.94	+10 48.0	1.787	2.774	2.1	21.6
3 12	11 1.22	- 0 38.2	1.157	2.145	3.7	19.0	3 12	11 1.21	+11 44.0	1.803	2.785	3.9	21.8
3 22	10 52.52	+ 0 37.2	1.189	2.157	8.4	19.3	3 22	10 52.18	+12 29.3	1.847	2.794	7.8	22.0
4 1	10 45.98	+ 1 45.8	1.245	2.170	13.2	19.6	4 1	10 44.75	+13 0.0	1.919	2.803	11.5	22.3
4 11	10 42.34	+ 2 40.0	1.321	2.183	17.3	19.9	4 11	10 39.53	+13 14.5	2.012	2.811	14.6	22.5
<b>147235</b>	2002 XD <sub>52</sub>		3 5.9 38°29	2°9/ 3.7 18			<b>58725</b>	1998 DZ <sub>18</sub>		3 6.0 240°48	1°1/ 4.8 18		
2 1	11 30.89	+10 6.8	1.532	2.384	14.9	19.8	2 1	11 29.99	+ 6 14.8	2.380	3.203	11.3	20.8
2 11	11 26.30	+10 55.2	1.469	2.390	10.9	19.6	2 11	11 25.07	+ 7 1.3	2.281	3.186	8.3	20.6
2 21	11 19.27	+11 52.1	1.429	2.396	6.5	19.4	2 21	11 18.36	+ 7 57.6	2.207	3.169	5.0	20.3
3 2	11 10.62	+12 49.9	1.415	2.402	3.0	19.2	3 2	11 10.40	+ 8 59.2	2.162	3.151	1.5	20.1
3 12	11 1.56	+13 40.0	1.429	2.409	5.1	19.3	3 12	11 1.93	+10 0.4	2.148	3.132	3.0	20.1
3 22	10 53.29	+14 15.7	1.468	2.416	9.4	19.6	3 22	10 53.78	+10 55.4	2.164	3.113	6.7	20.3
4 1	10 46.87	+14 33.0	1.531	2.423	13.5	19.8	4 1	10 46.74	+11 39.8	2.207	3.093	10.1	20.5
4 11	10 42.97	+14 31.0	1.615	2.430	16.9	20.1	4 11	10 41.44	+12 10.6	2.273	3.073	13.1	20.7
<b>48274</b>	2002 CY <sub>235</sub>		3 5.9 224°25	2°3/ 3.6 18			<b>198579</b>	2004 YR <sub>11</sub>		3 6.0 15°36	2°0/ 4.2 18		
2 1	11 30.83	+10 26.9	2.263	3.097	11.4	19.8	2 1	11 28.25	+ 8 22.5	1.687	2.534	14.0	19.7
2 11	11 25.70	+11 13.5	2.176	3.088	8.4	19.6	2 11	11 24.20	+ 9 7.7	1.619	2.537	10.2	19.4
2 21	11 18.71	+12 6.4	2.115	3.078	5.0	19.4	2 21	11 17.96	+10 2.5	1.575	2.541	6.0	19.2
3 2	11 10.46	+13 0.3	2.083	3.069	2.4	19.2	3 2	11 10.28	+11 0.4	1.557	2.544	2.3	18.9
3 12	11 1.75	+13 49.3	2.081	3.058	4.0	19.3	3 12	11 2.18	+11 53.8	1.566	2.549	4.2	19.1
3 22	10 53.48	+14 28.1	2.107	3.048	7.5	19.5	3 22	10 54.75	+12 35.9	1.602	2.554	8.4	19.3
4 1	10 46.44	+14 53.3	2.161	3.037	10.8	19.7	4 1	10 48.92	+13 2.4	1.663	2.559	12.3	19.6
4 11	10 41.26	+15 3.2	2.237	3.025	13.7	19.8	4 11	10 45.34	+13 11.3	1.745	2.565	15.7	19.8
<b>364646</b>	2007 TY <sub>148</sub>		3 6.0 105°60	0°1/ 6.1 18			<b>186140</b>	2001 TX <sub>214</sub>		3 6.0 254°67	1°5/ 4.9 17		
2 1	11 33.17	+ 2 15.9	1.720	2.542	14.9	22.0	2 1	11 35.92	+ 9 23.0	1.850	2.682	13.6	19.7
2 11	11 27.64	+ 2 53.9	1.659	2.561	11.1	21.8	2 11	11 29.82	+ 9 29.5	1.765	2.674	10.1	19.4
2 21	11 19.91	+ 3 46.5	1.620	2.580	6.7	21.6	2 21	11 21.37	+ 9 42.0	1.704	2.666	6.1	19.2
3 2	11 10.79	+ 4 48.1	1.609	2.598	2.0	21.3	3 2	11 11.29	+ 9 55.9	1.670	2.658	2.0	18.9
3 12	11 1.36	+ 5 51.6	1.627	2.615	2.8	21.4	3 12	11 0.65	+10 6.2	1.666	2.650	3.7	19.0
3 22	10 52.72	+ 6 49.6	1.672	2.632	7.3	21.8	3 22	10 50.60	+10 8.5	1.690	2.642	8.0	19.2
4 1	10 45.80	+ 7 36.5	1.744	2.649	11.4	22.0	4 1	10 42.19	+ 9 59.9	1.741	2.634	12.0	19.4
4 11	10 41.20	+ 8 8.6	1.839	2.665	14.7	22.3	4 11	10 36.16	+ 9 39.1	1.813	2.626	15.5	19.6
<b>424828</b>	2008 UK <sub>210</sub>		3 6.0 137°02	0°6/ 5.4 17			<b>295405</b>	2008 JU <sub>15</sub>		3 6.0 293°24	0°2/ 6.2 17		
2 1	11 29.79	+ 5 15.3	2.202	3.026	12.0	21.7	2 1	11 29.98	+ 2 34.1	1.712	2.541	14.7	21.3
2 11	11 24.85	+ 5 46.6	2.126	3.032	8.9	21.5	2 11	11 25.54	+ 3 2.6	1.632	2.538	11.0	21.1
2 21	11 18.14	+ 6 27.4	2.076	3.037	5.3	21.3	2 21	11 18.83	+ 3 46.2	1.574	2.534	6.8	20.8
3 2	11 10.28	+ 7 13.3	2.053	3.042	1.5	21.1	3 2	11 10.56	+ 4 40.0	1.543	2.531	2.1	20.5
3 12	11 2.09	+ 7 58.9	2.060	3.047	2.7	21.2	3 12	11 1.75	+ 5 37.5	1.539	2.528	2.8	20.5
3 22	10 54.40	+ 8 39.3	2.096	3.052	6.4	21.4	3 22	10 53.52	+ 6 31.4	1.563	2.525	7.5	20.8
4 1	10 47.99	+ 9 10.4	2.160	3.056	9.9	21.6	4 1	10 46.87	+ 7 15.4	1.613	2.522	11.8	21.1
4 11	10 43.41	+ 9 29.5	2.246	3.061	12.8	21.8	4 11	10 42.52	+ 7 45.2	1.684	2.519	15.5	21.3
<b>298295</b>	2003 BW <sub>18</sub>		3 6.0 357°46	9°2/13.8 17			<b>423571</b>	2005 UM <sub>511</sub>		3 6.0 50°09	1°2/ 7.0 17		
2 1	11 31.28	-18 46.0	2.002	2.714	16.8	19.8	2 1	11 29.84	+ 0 27.2	1.718	2.540	14.9	21.4
2 11	11 26.44	-20 6.1	1.914	2.712	14.6	19.6	2 11	11 25.32	+ 0 45.3	1.646	2.546	11.3	21.2
2 21	11 19.39	-21 3.9	1.845	2.710	12.3	19.4	2 21	11 18.63	+ 1 19.4	1.597	2.553	7.1	21.0
3 2	11 10.72	-21 35.5	1.800	2.709	10.3	19.3	3 2	11 10.48	+ 2 5.4	1.573	2.560	2.7	20.7
3 12	11 1.39	-21 40.0	1.780	2.708	9.2	19.2	3 12	11 1.91	+ 2 57.3	1.578	2.567	2.6	20.7
3 22	10 52.46	-21 19.6	1.784	2.708	9.7	19.3	3 22	10 53.98	+ 3 48.2	1.609	2.574	7.0	21.0
4 1	10 44.95	-20 40.2	1.814	2.709	11.5	19.4	4 1	10 47.66	+ 4 31.9	1.667	2.581	11.2	21.3
4 11	10 39.64	-19 49.5	1.866	2.710	13.8	19.5	4 11	10 43.58	+ 5 3.9	1.747	2.589	14.7	21.5
<b>287824</b>	2003 SK <sub>195</sub>		3 6.0 132°21	1°8/ 7.6 18			<b>289106</b>	2004 TK <sub>322</sub>		3 6.0 135°85	2°5/ 8.2 18		
2 1	11 33.85	- 1 6.8	1.842	2.647	14.8	21.1	2 1	11 32.58	- 3 36.8	1.733	2.535	15.7	20.9
2 11	11 28.13	- 0 58.3	1.768	2.658	11.3	20.9	2 11	11 27.35	- 3 19.1	1.659	2.544	12.2	20.7
2 21	11 20.24	- 0 34.0	1.718	2.669	7.3	20.6	2 21	11 19.85	- 2 41.8	1.607	2.553	8.1	20.4
3 2	11 10.92	+ 0 2.9	1.695	2.679	3.2	20.4	3 2	11 10.84	- 1 47.9	1.581	2.562	3.9	20.2
3 12	11 1.19	+ 0 47.4	1.700	2.688	2.7	20.4	3 12	11 1.38	- 0 43.5	1.583	2.570	3.1	20.2
3 22	10 52.13	+ 1 33.3	1.734	2.698	6.7	20.7	3 22	10 52.59	+ 0 24.0	1.613	2.578	7.0	20.4
4 1	10 44.68	+ 2 14.8	1.795	2.706	10.7	20.9	4 1	10 45.46	+ 1 27.0	1.670	2.585	11.1	20.7
4 11	10 39.49	+ 2 47.1	1.879	2.714	14.1	21.1	4 11	10 40.66	+ 2 19.4	1.749	2.592	14.6	20.9
<b>208714</b>	2002 JF <sub>95</sub>		3 6.0 299°36	1°3/ 5.1 18			<b>28714</b>	Gandall		3 6.0 208°82	2°0/ 4.3 18		
2 1	11 31.29	+ 6 29.8	1.457	2.303	15.8	20.1							

EPHEMERIDES

3 6.0

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>139589</b>	2001 <i>QT</i> <sub>111</sub>		3 6.0 71°02'	6°7/12.0	18		<b>310988</b>	2003 <i>WM</i> <sub>39</sub>		3 6.0 157°51'	3°0/ 8.8	18	
2 1	11 31.66	-13 8.4	1.734	2.491	17.4	19.7	2 1	11 32.50	- 4 55.2	1.921	2.710	14.8	21.2
2 11	11 26.68	-13 38.2	1.665	2.508	14.4	19.5	2 11	11 27.16	- 4 49.6	1.840	2.716	11.6	21.0
2 21	11 19.45	-13 42.8	1.616	2.525	11.1	19.3	2 21	11 19.71	- 4 25.5	1.781	2.722	8.0	20.8
3 2	11 10.72	-13 21.5	1.591	2.541	8.1	19.2	3 2	11 10.82	- 3 45.0	1.749	2.726	4.3	20.6
3 12	11 1.57	-12 37.4	1.592	2.558	6.7	19.2	3 12	11 1.47	- 2 52.6	1.745	2.731	3.4	20.5
3 22	10 53.13	-11 36.7	1.620	2.575	8.0	19.3	3 22	10 52.69	- 1 54.6	1.770	2.734	6.6	20.7
4 1	10 46.37	-10 27.7	1.673	2.592	10.9	19.5	4 1	10 45.40	- 0 57.8	1.823	2.738	10.3	20.9
4 11	10 41.95	- 9 19.2	1.750	2.608	13.9	19.7	4 11	10 40.27	- 0 8.1	1.898	2.740	13.7	21.2
<b>345532</b>	2006 <i>PF</i> <sub>4</sub>		3 6.0 172°54'	2°4/ 2.6	18		<b>409868</b>	2006 <i>SD</i> <sub>224</sub>		3 6.0 103°35'	1°6/ 7.7	18	
2 1	11 27.87	+12 43.4	3.046	3.877	8.8	22.0	2 1	11 32.35	- 2 34.9	2.062	2.858	13.8	22.2
2 11	11 23.05	+13 39.1	2.970	3.881	6.4	21.8	2 11	11 26.70	- 1 58.6	2.001	2.885	10.5	22.1
2 21	11 16.92	+14 38.0	2.922	3.883	4.0	21.6	2 21	11 19.22	- 1 6.3	1.964	2.912	6.7	21.9
3 2	11 9.95	+15 35.6	2.905	3.886	2.4	21.5	3 2	11 10.63	- 0 2.1	1.954	2.938	2.9	21.7
3 12	11 2.72	+16 27.4	2.918	3.888	3.7	21.6	3 12	11 1.82	+ 1 8.1	1.975	2.963	2.4	21.7
3 22	10 55.84	+17 9.6	2.962	3.889	6.2	21.8	3 22	10 53.70	+ 2 17.7	2.025	2.988	6.0	22.0
4 1	10 49.88	+17 39.9	3.033	3.890	8.6	21.9	4 1	10 47.03	+ 3 20.6	2.103	3.012	9.5	22.2
4 11	10 45.26	+17 57.0	3.128	3.890	10.7	22.1	4 11	10 42.32	+ 4 12.4	2.206	3.035	12.5	22.5
<b>379693</b>	2011 <i>FY</i> <sub>60</sub>		3 6.0 325°10'	5°1/11.2	17		<b>505952</b>	2015 <i>FF</i> <sub>175</sub>		3 6.0 219°23'	0°8/ 4.9	17	
2 1	11 26.21	-11 11.2	1.832	2.606	16.1	21.0	2 1	11 25.76	+ 4 37.8	2.500	3.324	10.8	21.8
2 11	11 22.71	-11 3.8	1.741	2.599	13.1	20.7	2 11	11 21.79	+ 5 38.5	2.415	3.321	7.9	21.6
2 21	11 17.13	-10 31.3	1.671	2.593	9.8	20.5	2 21	11 16.31	+ 6 49.6	2.356	3.318	4.7	21.4
3 2	11 10.07	- 9 34.3	1.625	2.587	6.6	20.3	3 2	11 9.81	+ 8 6.5	2.326	3.315	1.3	21.1
3 12	11 2.47	- 8 16.8	1.605	2.582	5.1	20.2	3 12	11 2.97	+ 9 23.3	2.326	3.312	2.7	21.2
3 22	10 55.33	- 6 46.3	1.612	2.576	7.1	20.3	3 22	10 56.49	+10 34.2	2.356	3.308	6.1	21.4
4 1	10 49.59	- 5 11.6	1.646	2.571	10.5	20.5	4 1	10 51.04	+11 34.5	2.414	3.304	9.2	21.6
4 11	10 45.96	- 3 42.0	1.704	2.567	14.0	20.7	4 11	10 47.12	+12 21.0	2.496	3.301	11.9	21.8
<b>36913</b>	2000 <i>SR</i> <sub>188</sub>		3 6.0 152°88'	0°2/ 5.8	18		<b>107347</b>	2001 <i>CG</i> <sub>25</sub>		3 6.0 130°18'	3°3/ 2.5	18	
2 1	11 31.22	+ 4 13.7	2.093	2.914	12.7	19.8	2 1	11 29.92	+12 51.5	2.074	2.917	11.9	19.6
2 11	11 26.01	+ 4 38.9	2.016	2.918	9.4	19.6	2 11	11 25.08	+13 52.7	2.007	2.923	8.7	19.4
2 21	11 18.91	+ 5 14.7	1.963	2.923	5.7	19.3	2 21	11 18.36	+14 58.6	1.965	2.928	5.4	19.2
3 2	11 10.55	+ 5 56.8	1.938	2.927	1.6	19.1	3 2	11 10.41	+16 2.4	1.952	2.933	3.3	19.1
3 12	11 1.82	+ 6 40.0	1.942	2.930	2.6	19.2	3 12	11 2.12	+16 57.1	1.968	2.938	5.1	19.2
3 22	10 53.63	+ 7 18.9	1.976	2.934	6.6	19.4	3 22	10 54.40	+17 37.7	2.011	2.943	8.3	19.4
4 1	10 46.80	+ 7 49.3	2.037	2.937	10.2	19.6	4 1	10 48.07	+18 1.1	2.080	2.948	11.5	19.6
4 11	10 41.91	+ 8 8.2	2.120	2.939	13.3	19.8	4 11	10 43.70	+18 6.6	2.171	2.952	14.3	19.8
<b>292266</b>	2006 <i>SZ</i> <sub>106</sub>		3 6.0 38°44'	2°1/ 8.5	17		<b>200577</b>	2001 <i>QT</i> <sub>61</sub>		3 6.0 255°06'	0°7/ 5.4	17	
2 1	11 25.88	- 4 11.5	2.307	3.101	12.5	21.4	2 1	11 31.32	+ 3 17.2	1.627	2.458	15.2	20.7
2 11	11 21.97	- 3 40.7	2.221	3.102	9.7	21.2	2 11	11 26.87	+ 4 15.6	1.532	2.441	11.4	20.5
2 21	11 16.45	- 2 53.6	2.158	3.103	6.5	21.0	2 21	11 19.86	+ 5 32.8	1.460	2.422	6.9	20.2
3 2	11 9.84	- 1 52.9	2.123	3.104	3.2	20.8	3 2	11 10.95	+ 7 2.7	1.414	2.403	1.9	19.8
3 12	11 2.87	- 0 43.6	2.117	3.105	2.5	20.8	3 12	11 1.21	+ 8 36.1	1.396	2.383	3.6	19.9
3 22	10 56.31	+ 0 28.6	2.140	3.105	5.5	21.0	3 22	10 51.88	+10 3.0	1.407	2.363	8.8	20.1
4 1	10 50.87	+ 1 37.5	2.191	3.106	8.8	21.2	4 1	10 44.19	+11 14.8	1.442	2.342	13.5	20.3
4 11	10 47.07	+ 2 38.0	2.267	3.107	11.8	21.4	4 11	10 39.02	+12 6.2	1.499	2.321	17.7	20.5
<b>288893</b>	2004 <i>RJ</i> <sub>290</sub>		3 6.0 154°71'	2°3/ 3.4	18		<b>414759</b>	2010 <i>JP</i>		3 6.0 240°75'	3°4/ 2.8	17	
2 1	11 30.35	+10 28.0	2.313	3.146	11.2	21.1	2 1	11 34.04	+12 10.3	1.957	2.794	12.7	22.1
2 11	11 25.21	+11 23.8	2.242	3.153	8.2	20.9	2 11	11 28.50	+13 11.1	1.864	2.776	9.4	21.9
2 21	11 18.35	+12 25.5	2.197	3.160	4.9	20.7	2 21	11 20.66	+14 19.2	1.796	2.758	5.9	21.6
3 2	11 10.38	+13 27.3	2.181	3.166	2.4	20.6	3 2	11 11.14	+15 27.6	1.756	2.739	3.4	21.4
3 12	11 2.10	+14 23.3	2.195	3.171	4.0	20.7	3 12	11 0.95	+16 28.2	1.746	2.718	5.4	21.5
3 22	10 54.32	+15 8.3	2.238	3.176	7.2	20.9	3 22	10 51.17	+17 14.4	1.764	2.697	9.2	21.7
4 1	10 47.79	+15 39.3	2.309	3.181	10.3	21.1	4 1	10 42.86	+17 41.8	1.808	2.675	13.0	21.9
4 11	10 43.04	+15 54.7	2.401	3.185	13.0	21.3	4 11	10 36.80	+17 49.2	1.873	2.652	16.2	22.1
<b>346008</b>	2007 <i>TB</i> <sub>223</sub>		3 6.0 131°14'	3°2/10.0	17		<b>353942</b>	1998 <i>SR</i> <sub>176</sub>		3 6.0 172°74'	1°8/ 4.3	18	
2 1	11 26.01	- 8 40.6	2.313	3.084	13.2	20.9	2 1	11 33.05	+ 6 23.3	1.903	2.732	13.4	21.5
2 11	11 22.08	- 8 7.4	2.225	3.087	10.5	20.8	2 11	11 27.58	+ 7 34.4	1.827	2.736	9.9	21.2
2 21	11 16.51	- 7 14.6	2.160	3.090	7.4	20.6	2 21	11 19.97	+ 8 57.6	1.777	2.740	5.8	21.0
3 2	11 9.85	- 6 4.2	2.122	3.093	4.4	20.4	3 2	11 10.90	+10 26.0	1.755	2.743	2.0	20.8
3 12	11 2.85	- 4 41.2	2.114	3.096	3.3	20.3	3 12	11 1.38	+11 50.8	1.762	2.744	3.9	20.9
3 22	10 56.27	- 3 12.0	2.134	3.099	5.6	20.5	3 22	10 52.45	+13 4.6	1.799	2.745	8.1	21.1
4 1	10 50.81	- 1 43.4	2.183	3.102	8.7	20.6	4 1	10 45.04	+14 1.7	1.862	2.745	11.9	21.4
4 11	10 47.01	- 0 22.1	2.258	3.104	11.6	20.8	4 11	10 39.84	+14 39.4	1.948	2.744	15.1	21.6
<b>482836</b>	2014 <i>AR</i> <sub>16</sub>		3 6.0 126°65'	8°5/10.3	18		<b>219763</b>	2001 <i>YH</i> <sub>86</sub>		3 6.0 74°93'	0°7/ 6.6	18	
2 1	11 43.79	-10 0.5	1.316	2.091	21.1	20.8	2 1	11 30.91	+ 1 46.4	1.782	2.605	14.5	20.6
2 11	11 36.56	-11 34.4	1.244	2.100	17.5	20.6	2 11	11 26.01	+ 2 6.6	1.714	2.615	10.9	20.4
2 21	11 25.88	-12 44.8	1.192	2.109	13.4	20.4	2 21	11 19.00	+ 2 40.9	1.668	2.626	6.7	20.2
3 2	11 12.70	-13 26.6	1.163	2.118	9.8	20.2	3 2	11 10.61	+ 3 25.0	1.650	2.637	2.2	19.9
3 12	10 58.64	-13 38.7	1.160	2.126	8.6	20.1	3 12	11 1.85	+ 4 13.0	1.659	2.648	2.6	20.0
3 22	10 45.50	-13 25.3	1.182	2.133	10.8	20.3	3 22	10 53.77	+ 4 58.5	1.696	2.659	6.9	20.3
4 1	10 34.89	-12 54.9	1.229	2.140	14.5	20.5	4 1	10 47.27	+ 5 35.9	1.760	2.670	10.9	20.5
4 11	10 27.79	-12 18.4	1.296	2.147	18.3	20.8	4 11	10 42.97	+ 6 1.6	1.846	2.681	14.3	20.8
<b>522626</b>	2016 <i>FS</i> <sub>66</sub>		3 6.0 56°97'	0°1/ 5.8	18		<b>522494</b>	2016 <i>EH</i> <sub>231</sub>		3 6.0 222°58'	6°5/28.2		

EPHEMERIDES

3 6.0

3 6.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>464144</b>	2014 <i>XC</i> <sub>16</sub>		3 6.0 317°76	3°9/ 2.5 16			<b>455716</b>	2005 <i>GC</i> <sub>25</sub>		3 6.0 283°55	1°9/ 4.7 16		
2 1	11 30.81	+13 10.0	1.726	2.577	13.5	21.5	2 1	11 33.75	+ 8 45.0	1.584	2.426	15.0	21.7
2 11	11 26.15	+14 10.6	1.656	2.575	10.0	21.3	2 11	11 28.62	+ 9 8.0	1.501	2.416	11.1	21.4
2 21	11 19.19	+15 16.9	1.610	2.574	6.2	21.1	2 21	11 20.86	+ 9 40.1	1.441	2.406	6.7	21.1
3 2	11 10.69	+16 20.9	1.591	2.572	3.9	20.9	3 2	11 11.24	+10 15.6	1.408	2.396	2.3	20.8
3 12	11 1.73	+17 14.2	1.600	2.571	5.9	21.0	3 12	11 0.94	+10 47.2	1.402	2.386	4.2	20.9
3 22	10 53.41	+17 50.7	1.635	2.570	9.7	21.3	3 22	10 51.27	+11 8.8	1.422	2.376	9.0	21.2
4 1	10 46.76	+18 7.0	1.695	2.569	13.3	21.5	4 1	10 43.41	+11 16.0	1.468	2.366	13.5	21.4
4 11	10 42.46	+18 2.7	1.775	2.568	16.5	21.7	4 11	10 38.19	+11 7.0	1.534	2.357	17.3	21.6
<b>55573</b>	2002 <i>CQ</i> <sub>172</sub>		3 6.0 238°50	4°0/ 2.4 18			<b>281991</b>	2011 <i>HM</i> <sub>26</sub>		3 6.0 251°83	0°8/ 5.3 17		
2 1	11 33.71	+13 23.8	1.824	2.667	13.3	19.8	2 1	11 30.10	+ 5 59.4	2.080	2.908	12.5	20.7
2 11	11 28.35	+14 26.6	1.739	2.654	9.8	19.6	2 11	11 25.31	+ 6 28.6	1.993	2.901	9.2	20.5
2 21	11 20.60	+15 35.8	1.678	2.640	6.2	19.3	2 21	11 18.59	+ 7 7.5	1.932	2.894	5.5	20.3
3 2	11 11.14	+16 43.5	1.645	2.626	4.0	19.1	3 2	11 10.53	+ 7 51.7	1.898	2.887	1.6	20.0
3 12	11 1.02	+17 41.2	1.641	2.611	6.0	19.2	3 12	11 2.01	+ 8 35.6	1.893	2.879	2.9	20.1
3 22	10 51.43	+18 22.0	1.664	2.595	9.8	19.4	3 22	10 53.95	+ 9 13.7	1.917	2.872	6.9	20.3
4 1	10 43.43	+18 42.3	1.712	2.579	13.6	19.6	4 1	10 47.20	+ 9 41.8	1.967	2.864	10.6	20.5
4 11	10 37.83	+18 41.4	1.781	2.562	16.9	19.8	4 11	10 42.41	+ 9 57.0	2.041	2.857	13.8	20.7
<b>15385</b>	Dallolmo		3 6.0 61°56	3°3/ 2.3 18			<b>94531</b>	2001 <i>UZ</i> <sub>152</sub>		3 6.0 74°20	0°2/ 5.9 18		
2 1	11 27.26	+11 26.0	1.994	2.842	12.1	18.5	2 1	11 34.11	+ 3 15.1	1.365	2.202	17.2	19.7
2 11	11 23.19	+12 45.8	1.930	2.849	8.8	18.3	2 11	11 28.77	+ 3 51.2	1.313	2.224	12.8	19.5
2 21	11 17.25	+14 12.3	1.892	2.856	5.4	18.1	2 21	11 20.79	+ 4 43.5	1.283	2.245	7.7	19.2
3 2	11 10.10	+15 37.8	1.882	2.864	3.3	18.0	3 2	11 11.15	+ 5 45.2	1.278	2.267	2.2	19.0
3 12	11 2.62	+16 54.4	1.900	2.871	5.2	18.1	3 12	11 1.22	+ 6 47.3	1.300	2.288	3.4	19.1
3 22	10 55.69	+17 55.7	1.947	2.879	8.5	18.3	3 22	10 52.32	+ 7 41.3	1.348	2.309	8.5	19.5
4 1	10 50.13	+18 38.0	2.018	2.887	11.7	18.5	4 1	10 45.56	+ 8 21.2	1.421	2.330	13.1	19.8
4 11	10 46.51	+19 0.2	2.111	2.895	14.5	18.7	4 11	10 41.56	+ 8 43.7	1.514	2.351	16.8	20.1
<b>399588</b>	2003 <i>TE</i> <sub>13</sub>		3 6.0 141°12	3°1/ 3.2 18			<b>245947</b>	2006 <i>SK</i> <sub>16</sub>		3 6.0 94°56	2°6/ 9.2 17		
2 1	11 36.31	+12 56.1	2.027	2.860	12.5	21.9	2 1	11 26.59	- 5 52.3	2.402	3.184	12.4	20.4
2 11	11 29.75	+13 38.7	1.963	2.873	9.2	21.7	2 11	11 22.42	- 5 30.0	2.321	3.193	9.7	20.2
2 21	11 21.14	+14 24.9	1.924	2.886	5.6	21.5	2 21	11 16.69	- 4 51.6	2.264	3.201	6.7	20.0
3 2	11 11.22	+15 8.2	1.915	2.897	3.1	21.3	3 2	11 9.95	- 3 59.2	2.234	3.209	3.7	19.8
3 12	11 1.01	+15 42.6	1.935	2.908	4.8	21.5	3 12	11 2.91	- 2 57.2	2.233	3.218	2.8	19.8
3 22	10 51.53	+16 3.6	1.984	2.918	8.2	21.7	3 22	10 56.30	- 1 51.0	2.261	3.226	5.3	20.0
4 1	10 43.65	+16 9.1	2.059	2.928	11.5	21.9	4 1	10 50.79	- 0 46.2	2.318	3.234	8.4	20.2
4 11	10 37.96	+15 59.0	2.157	2.937	14.4	22.1	4 11	10 46.88	+ 0 12.0	2.400	3.242	11.2	20.3
<b>217890</b>	2001 <i>RG</i> <sub>105</sub>		3 6.0 221°40	0°2/ 5.9 17			<b>336870</b>	2011 <i>FQ</i> <sub>151</sub>		3 6.0 321°97	1°9/ 6.7 17		
2 1	11 35.57	+ 5 45.8	1.821	2.645	14.1	20.4	2 1	11 43.72	+ 5 36.4	1.505	2.326	16.7	19.6
2 11	11 29.57	+ 5 44.3	1.738	2.643	10.6	20.2	2 11	11 36.68	+ 4 19.7	1.395	2.295	13.0	19.3
2 21	11 21.23	+ 5 51.8	1.680	2.640	6.4	19.9	2 21	11 26.21	+ 3 4.6	1.308	2.264	8.4	18.9
3 2	11 11.30	+ 6 4.7	1.649	2.638	1.8	19.6	3 2	11 12.95	+ 1 50.7	1.247	2.234	3.3	18.5
3 12	11 0.83	+ 6 18.4	1.646	2.635	2.9	19.7	3 12	10 58.27	+ 0 38.0	1.216	2.204	3.7	18.5
3 22	10 50.98	+ 6 28.1	1.673	2.631	7.4	20.0	3 22	10 43.86	- 0 33.2	1.214	2.175	9.2	18.7
4 1	10 42.78	+ 6 30.3	1.725	2.628	11.5	20.2	4 1	10 31.44	- 1 43.1	1.238	2.147	14.6	18.9
4 11	10 36.95	+ 6 22.5	1.801	2.625	15.1	20.4	4 11	10 22.25	- 2 52.8	1.284	2.121	19.2	19.2
<b>469138</b>	2015 <i>FL</i> <sub>96</sub>		3 6.0 257°07	2°0/ 8.0 17			<b>27508</b>	2000 <i>GS</i> <sub>142</sub>		3 6.0 174°84	3°9/ 1.1 18		
2 1	11 30.13	- 1 39.6	2.326	3.122	12.4	21.3	2 1	11 28.70	+16 23.7	2.467	3.309	10.3	17.8
2 11	11 25.17	- 1 43.7	2.231	3.114	9.6	21.1	2 11	11 23.99	+17 32.7	2.397	3.311	7.6	17.6
2 21	11 18.43	- 1 35.3	2.159	3.106	6.3	20.9	2 21	11 17.65	+18 43.3	2.355	3.312	5.1	17.5
3 2	11 10.47	- 1 16.1	2.116	3.098	3.1	20.7	3 2	11 10.24	+19 49.4	2.341	3.313	4.0	17.4
3 12	11 2.05	- 0 49.3	2.102	3.089	2.5	20.6	3 12	11 2.51	+20 44.9	2.357	3.314	5.5	17.5
3 22	10 53.99	- 0 19.0	2.117	3.081	5.7	20.8	3 22	10 55.23	+21 25.4	2.401	3.314	8.1	17.7
4 1	10 47.09	+ 0 10.3	2.160	3.072	9.1	21.0	4 1	10 49.11	+21 48.8	2.471	3.314	10.7	17.8
4 11	10 41.95	+ 0 34.5	2.227	3.063	12.2	21.2	4 11	10 44.67	+21 54.5	2.562	3.314	13.1	18.0
<b>368225</b>	2001 <i>TE</i> <sub>159</sub>		3 6.0 213°06	1°3/ 7.5 13 C			<b>522737</b>	2016 <i>LC</i> <sub>64</sub>		3 6.0 243°28	5°8/ 26.6 18		
2 1	11 30.31	- 1 34.6	2.448	3.242	11.9	23.0	2 1	11 26.93	+21 48.3	2.472	3.321	10.0	21.1
2 11	11 25.24	- 1 3.1	2.349	3.233	9.1	23.2	2 11	11 22.82	+23 34.5	2.405	3.315	7.8	21.0
2 21	11 18.45	- 0 17.3	2.275	3.224	5.9	22.8	2 21	11 17.02	+25 19.9	2.366	3.309	6.1	20.8
3 2	11 10.47	+ 0 39.7	2.229	3.213	2.5	22.5	3 2	11 10.08	+26 56.5	2.356	3.304	5.9	20.8
3 12	11 2.04	+ 1 43.4	2.213	3.202	2.2	22.5	3 12	11 2.73	+28 17.2	2.374	3.298	7.5	20.9
3 22	10 53.94	+ 2 48.3	2.229	3.190	5.6	22.7	3 22	10 55.78	+29 17.0	2.420	3.292	9.8	21.0
4 1	10 46.93	+ 3 48.8	2.272	3.177	9.0	22.9	4 1	10 49.97	+29 54.0	2.489	3.285	12.1	21.2
4 11	10 41.61	+ 4 40.5	2.341	3.164	12.1	23.1	4 11	10 45.85	+30 8.5	2.578	3.279	14.2	21.3
<b>38894</b>	2000 <i>SC</i> <sub>152</sub>		3 6.0 100°40	0°2/ 6.3 18			<b>259807</b>	2004 <i>BT</i> <sub>99</sub>		3 6.0 54°44	2°8/ 3.6 18		
2 1	11 30.33	+ 1 50.9	2.039	2.855	13.1	19.3	2 1	11 30.15	+ 9 8.5	1.554	2.404	14.8	20.2
2 11	11 25.30	+ 2 30.8	1.974	2.873	9.8	19.1	2 11	11 25.77	+10 10.9	1.491	2.411	10.8	20.0
2 21	11 18.45	+ 3 23.6	1.933	2.891	5.9	18.9	2 21	11 19.01	+11 23.5	1.452	2.418	6.4	19.7
3 2	11 10.44	+ 4 24.6	1.921	2.909	1.8	18.7	3 2	11 10.67	+12 38.1	1.439	2.425	2.9	19.5
3 12	11 2.16	+ 5 27.6	1.938	2.926	2.4	18.7	3 12	11 1.91	+13 45.4	1.453	2.433	5.0	19.7
3 22	10 54.51	+ 6 26.5	1.984	2.943	6.4	19.0	3 22	10 53.91	+14 37.6	1.494	2.440	9.3	19.9
4 1	10 48.25	+ 7 16.0	2.057	2.960	9.9	19.3	4 1	10 47.70	+15 10.3	1.558	2.448	13.4	20.2
4 11	10 43.93	+ 7 52.7	2.154	2.976	13.0	19.5	4 11	10 43.95	+15 21.9	1.643	2.456	16.8	20.4
<b>498079</b>	2007 <i>RJ</i> <sub>203</sub>		3 6.0 108°62	0°3/ 6.4 17			<b>375085</b>	2007 <i>RR</i> <sub>189</sub>		3 6.0 72°38	0°6/ 5.5 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>358084</b>	2006 <i>JD</i> <sub>26</sub>		3 6.0 329°55	4.9/ 8.9	17		<b>245918</b>	2006 <i>QF</i> <sub>185</sub>		3 6.0 29°76	0°9/ 7.1	18	
2 1	11 28.74	- 4 10.2	1.183	2.014	19.7	20.3	2 1	11 25.55	- 0 54.8	2.078	2.892	13.0	20.1
2 11	11 25.72	- 4 48.0	1.097	1.996	15.8	20.0	2 11	11 21.89	- 0 8.8	2.000	2.897	9.8	19.9
2 21	11 19.57	- 5 3.1	1.030	1.979	11.2	19.6	2 21	11 16.50	+ 0 53.3	1.946	2.901	6.2	19.6
3 2	11 10.98	- 4 54.3	0.984	1.962	6.5	19.3	3 2	11 9.94	+ 2 7.0	1.919	2.906	2.3	19.4
3 12	11 1.30	- 4 24.9	0.962	1.947	5.3	19.2	3 12	11 3.04	+ 3 26.2	1.921	2.911	2.2	19.4
3 22	10 52.15	- 3 41.9	0.962	1.933	9.5	19.4	3 22	10 56.61	+ 4 43.8	1.952	2.916	6.1	19.7
4 1	10 45.12	- 2 55.1	0.985	1.920	14.7	19.6	4 1	10 51.41	+ 5 53.4	2.010	2.921	9.7	19.9
4 11	10 41.31	- 2 14.1	1.026	1.909	19.6	19.8	4 11	10 48.00	+ 6 50.3	2.092	2.927	12.8	20.1
<b>504213</b>	2006 <i>UG</i> <sub>52</sub>		3 6.0 195°67	1.4/ 7.9	17		<b>306535</b>	1999 <i>XG</i> <sub>210</sub>		3 6.0 99°79	2°7/ 8.3	18	
2 1	11 26.59	- 2 35.8	2.811	3.601	10.6	22.9	2 1	11 36.52	- 2 59.5	1.847	2.639	15.2	20.4
2 11	11 22.26	- 2 5.4	2.718	3.599	8.2	22.7	2 11	11 30.01	- 3 7.5	1.784	2.663	11.8	20.2
2 21	11 16.56	- 1 22.3	2.650	3.596	5.3	22.5	2 21	11 21.35	- 2 59.2	1.744	2.687	7.8	20.0
3 2	11 9.93	- 0 29.0	2.611	3.593	2.4	22.3	3 2	11 11.34	- 2 36.7	1.731	2.710	4.0	19.8
3 12	11 2.99	+ 0 30.4	2.602	3.590	2.0	22.3	3 12	11 1.06	- 2 4.4	1.747	2.733	3.2	19.8
3 22	10 56.36	+ 1 31.4	2.623	3.586	4.8	22.5	3 22	10 51.57	- 1 27.9	1.792	2.755	6.6	20.1
4 1	10 50.65	+ 2 29.4	2.674	3.582	7.7	22.7	4 1	10 43.78	- 0 52.7	1.864	2.776	10.3	20.3
4 11	10 46.32	+ 3 20.4	2.749	3.578	10.3	22.8	4 11	10 38.30	- 0 23.9	1.960	2.797	13.5	20.6
<b>462334</b>	2008 <i>KO</i> <sub>34</sub>		3 6.0 268°08	3°0/ 2.8	17		<b>114622</b>	2003 <i>EZ</i> <sub>7</sub>		3 6.0 38°18	1°8/ 7.9	18	
2 1	11 27.50	+ 8 32.0	1.824	2.669	13.2	20.9	2 1	11 26.02	- 4 41.8	1.614	2.427	16.2	19.5
2 11	11 23.70	+ 10 7.3	1.741	2.660	9.6	20.7	2 11	11 22.68	- 3 36.8	1.539	2.432	12.5	19.3
2 21	11 17.77	+ 11 55.6	1.684	2.650	5.8	20.4	2 21	11 17.16	- 2 6.5	1.487	2.439	8.1	19.1
3 2	11 10.34	+ 13 48.5	1.655	2.640	3.0	20.2	3 2	11 10.17	- 0 16.3	1.461	2.445	3.5	18.8
3 12	11 2.35	+ 15 35.7	1.655	2.630	5.2	20.3	3 12	11 2.72	+ 1 44.3	1.462	2.452	2.7	18.8
3 22	10 54.82	+ 17 8.0	1.682	2.620	9.2	20.5	3 22	10 55.90	+ 3 44.2	1.492	2.459	7.2	19.0
4 1	10 48.72	+ 18 19.0	1.735	2.610	13.0	20.7	4 1	10 50.66	+ 5 32.9	1.547	2.466	11.5	19.3
4 11	10 44.76	+ 19 5.9	1.809	2.600	16.3	20.9	4 11	10 47.66	+ 7 2.9	1.625	2.473	15.3	19.6
<b>350872</b>	2002 <i>PG</i> <sub>43</sub>		3 6.0 163°95	0°0/ 5.9	18		<b>259649</b>	2003 <i>WU</i> <sub>92</sub>		3 6.0 78°62	2°6/ 8.2	18	
2 1	11 37.13	+ 3 36.4	2.200	3.005	12.7	23.2	2 1	11 32.48	- 2 46.6	1.573	2.384	16.6	20.6
2 11	11 30.29	+ 4 6.9	2.120	3.015	9.5	23.0	2 11	11 27.45	- 2 42.7	1.506	2.397	12.8	20.3
2 21	11 21.48	+ 4 48.0	2.067	3.023	5.7	22.7	2 21	11 20.02	- 2 19.3	1.460	2.409	8.5	20.1
3 2	11 11.38	+ 5 35.7	2.042	3.031	1.7	22.5	3 2	11 10.99	- 1 39.3	1.440	2.422	4.1	19.9
3 12	11 0.89	+ 6 24.5	2.049	3.037	2.5	22.5	3 12	11 1.54	- 0 48.6	1.447	2.435	3.3	19.9
3 22	10 50.99	+ 7 9.0	2.087	3.042	6.5	22.8	3 22	10 52.87	+ 0 5.4	1.481	2.448	7.3	20.1
4 1	10 42.52	+ 7 44.8	2.153	3.045	10.1	23.0	4 1	10 46.00	+ 0 55.5	1.541	2.460	11.5	20.4
4 11	10 36.09	+ 8 9.1	2.243	3.047	13.1	23.2	4 11	10 41.63	+ 1 35.6	1.622	2.473	15.2	20.7
<b>512975</b>	2017 <i>TA</i> <sub>14</sub>		3 6.0 183°83	2°5/ 9.3	18		<b>110498</b>	2001 <i>TG</i> <sub>65</sub>		3 6.0 128°51	0°8/ 5.3	18	
2 1	11 28.47	- 5 33.9	3.051	3.819	10.4	22.2	2 1	11 30.79	+ 5 9.4	1.938	2.767	13.2	20.0
2 11	11 23.54	- 5 30.8	2.957	3.819	8.2	22.0	2 11	11 25.84	+ 5 52.0	1.867	2.775	9.8	19.8
2 21	11 17.28	- 5 15.8	2.887	3.819	5.7	21.9	2 21	11 18.90	+ 6 45.9	1.820	2.782	5.8	19.6
3 2	11 10.14	- 4 49.9	2.846	3.818	3.3	21.7	3 2	11 10.65	+ 7 45.6	1.801	2.789	1.6	19.3
3 12	11 2.70	- 4 15.9	2.835	3.817	2.6	21.7	3 12	11 2.04	+ 8 44.5	1.810	2.797	3.1	19.4
3 22	10 55.56	- 3 37.0	2.854	3.815	4.6	21.8	3 22	10 54.02	+ 9 36.3	1.848	2.803	7.2	19.7
4 1	10 49.29	- 2 57.1	2.903	3.813	7.1	21.9	4 1	10 47.46	+ 10 16.0	1.913	2.810	10.9	19.9
4 11	10 44.35	- 2 20.0	2.978	3.811	9.5	22.1	4 11	10 42.96	+ 10 41.1	2.000	2.816	14.1	20.2
<b>148092</b>	1999 <i>FW</i> <sub>13</sub>		3 6.0 102°54	0°7/ 5.5	18		<b>332374</b>	2007 <i>EL</i> <sub>103</sub>		3 6.0 334°83	7°7/ 10.9	18	
2 1	11 32.20	+ 5 33.6	1.816	2.646	13.9	20.6	2 1	11 28.78	- 10 18.6	1.427	2.219	18.9	19.5
2 11	11 26.98	+ 6 0.4	1.746	2.654	10.3	20.4	2 11	11 25.35	- 11 22.9	1.336	2.202	15.8	19.2
2 21	11 19.61	+ 6 37.9	1.700	2.662	6.1	20.2	2 21	11 19.17	- 12 4.4	1.263	2.186	12.3	18.9
3 2	11 10.85	+ 7 21.1	1.681	2.670	1.7	19.9	3 2	11 10.86	- 12 19.5	1.212	2.170	9.0	18.7
3 12	11 1.70	+ 8 3.6	1.691	2.678	3.1	20.0	3 12	11 1.59	- 12 8.2	1.186	2.156	7.7	18.6
3 22	10 53.22	+ 8 39.7	1.729	2.686	7.4	20.3	3 22	10 52.74	- 11 34.8	1.183	2.143	9.7	18.7
4 1	10 46.33	+ 9 4.9	1.793	2.693	11.3	20.5	4 1	10 45.69	- 10 47.2	1.203	2.131	13.4	18.8
4 11	10 41.67	+ 9 16.7	1.879	2.701	14.6	20.7	4 11	10 41.43	- 9 55.3	1.244	2.120	17.2	19.0
<b>31970</b>	2000 <i>HD</i> <sub>9</sub>		3 6.0 225°52	4°7/ 11.2	18 R		<b>458407</b>	2010 <i>XU</i> <sub>69</sub>		3 6.0 52°55	19°5/ 9.7	16	
2 1	11 29.32	- 11 58.3	2.279	3.027	14.0	19.9	2 1	11 50.13	+ 59 31.7	1.592	2.326	19.7	19.9
2 11	11 24.71	- 11 47.3	2.175	3.017	11.5	19.7	2 11	11 42.39	+ 61 40.9	1.609	2.344	19.5	20.0
2 21	11 18.26	- 11 14.9	2.092	3.006	8.7	19.5	2 21	11 29.55	+ 63 7.6	1.641	2.363	19.8	20.0
3 2	11 10.48	- 10 21.4	2.036	2.994	5.9	19.3	3 2	11 13.70	+ 63 42.4	1.688	2.382	20.3	20.1
3 12	11 2.18	- 9 9.9	2.008	2.982	4.7	19.2	3 12	10 57.96	+ 63 23.2	1.749	2.401	21.1	20.2
3 22	10 54.21	- 7 46.2	2.009	2.969	6.3	19.3	3 22	10 45.07	+ 62 15.3	1.821	2.421	21.8	20.4
4 1	10 47.40	- 6 17.6	2.039	2.955	9.3	19.4	4 1	10 36.64	+ 60 28.0	1.904	2.441	22.5	20.5
4 11	10 42.40	- 4 51.5	2.094	2.941	12.4	19.6	4 11	10 32.97	+ 58 12.0	1.995	2.461	23.1	20.7
<b>112269</b>	2002 <i>LM</i> <sub>21</sub>		3 6.0 252°33	0°0/ 5.8	17		<b>366902</b>	2005 <i>UC</i> <sub>18</sub>		3 6.0 138°83	1°0/ 7.1	16	
2 1	11 30.97	+ 2 45.7	1.823	2.647	14.1	20.0	2 1	11 31.02	- 0 12.7	2.294	3.095	12.4	22.5
2 11	11 26.33	+ 3 23.7	1.729	2.633	10.6	19.8	2 11	11 25.71	+ 0 17.1	2.219	3.108	9.3	22.3
2 21	11 19.41	+ 4 17.0	1.658	2.618	6.5	19.5	2 21	11 18.70	+ 0 59.9	2.168	3.121	5.9	22.1
3 2	11 10.85	+ 5 21.1	1.614	2.603	1.9	19.1	3 2	11 10.58	+ 1 52.2	2.146	3.132	2.2	21.9
3 12	11 1.62	+ 6 29.1	1.599	2.587	2.9	19.2	3 12	11 2.16	+ 2 49.1	2.154	3.143	2.1	21.9
3 22	10 52.81	+ 7 33.3	1.612	2.571	7.6	19.4	3 22	10 54.26	+ 3 44.9	2.192	3.154	5.7	22.2
4 1	10 45.47	+ 8 27.1	1.651	2.554	11.9	19.6	4 1	10 47.60	+ 4 34.8	2.259	3.164	9.1	22.4
4 11	10 40.37	+ 9 5.8	1.712	2.538	15.7	19.8	4 11	10 42.73	+ 5 15.0	2.349	3.173	12.0	22.6
<b>167646</b>	2004 <i>DS</i> <sub>31</sub>		3 6.0 75°49	1°4/ 7.7	18		<b>341373</b>	2007 <i>TR</i> <sub>107</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>289334</b>	2005 <i>AG</i> <sub>72</sub>		3 6.1	2 <sup>o</sup> 16	1 <sup>o</sup> 7/ 4.9	18	<b>406482</b>	2007 <i>UG</i> <sub>99</sub>		3 6.1	194 <sup>o</sup> .74	3 <sup>o</sup> 3/ 3.1	17
2 1	11 28.09	+ 6 32.2	1.151	2.016	17.9	20.3	2 1	11 33.70	+12 0.8	1.852	2.693	13.2	22.0
2 11	11 24.98	+ 7 9.0	1.088	2.014	13.2	20.0	2 11	11 28.21	+12 56.4	1.777	2.691	9.7	21.7
2 21	11 18.90	+ 8 1.6	1.044	2.013	7.9	19.7	2 21	11 20.45	+13 58.3	1.726	2.689	6.0	21.5
3 2	11 10.75	+ 9 2.1	1.024	2.013	2.4	19.3	3 2	11 11.16	+14 59.3	1.703	2.686	3.3	21.3
3 12	11 1.95	+ 9 59.9	1.028	2.015	4.7	19.5	3 12	11 1.38	+15 51.6	1.709	2.683	5.2	21.4
3 22	10 54.05	+10 45.5	1.056	2.017	10.3	19.8	3 22	10 52.21	+16 29.3	1.743	2.680	9.0	21.7
4 1	10 48.36	+11 12.1	1.105	2.021	15.4	20.1	4 1	10 44.65	+16 48.7	1.802	2.675	12.7	21.9
4 11	10 45.71	+11 16.8	1.173	2.026	19.6	20.4	4 11	10 39.39	+16 49.2	1.882	2.671	15.9	22.1
<b>267439</b>	2002 <i>CE</i> <sub>198</sub>		3 6.1	105 <sup>o</sup> .72	0 <sup>o</sup> 7/ 6.7	18	<b>54473</b>	2000 <i>OK</i> <sub>13</sub>		3 6.1	247 <sup>o</sup> .26	3 <sup>o</sup> 3/ 9.5	18
2 1	11 31.42	+ 1 55.9	1.934	2.751	13.7	21.0	2 1	11 28.94	- 6 14.0	2.379	3.156	12.7	18.5
2 11	11 26.32	+ 2 12.0	1.860	2.759	10.3	20.8	2 11	11 24.30	- 6 21.1	2.285	3.151	10.1	18.3
2 21	11 19.20	+ 2 40.8	1.809	2.766	6.4	20.6	2 21	11 17.94	- 6 13.0	2.214	3.146	7.2	18.1
3 2	11 10.77	+ 3 18.8	1.786	2.774	2.2	20.3	3 2	11 10.42	- 5 50.6	2.170	3.141	4.3	18.0
3 12	11 1.95	+ 4 0.6	1.792	2.781	2.4	20.4	3 12	11 2.46	- 5 16.8	2.155	3.136	3.4	17.9
3 22	10 53.72	+ 4 40.5	1.826	2.788	6.6	20.6	3 22	10 54.86	- 4 35.7	2.169	3.131	5.7	18.0
4 1	10 46.97	+ 5 13.6	1.887	2.795	10.4	20.9	4 1	10 48.38	- 3 52.4	2.210	3.126	8.7	18.2
4 11	10 42.29	+ 5 36.2	1.971	2.802	13.7	21.1	4 11	10 43.59	- 3 11.9	2.277	3.121	11.6	18.4
<b>245654</b>	2005 <i>YB</i> <sub>156</sub>		3 6.1	40 <sup>o</sup> .19	3 <sup>o</sup> 8/ 8.6	18	<b>306077</b>	2010 <i>GJ</i> <sub>123</sub>		3 6.1	242 <sup>o</sup> .91	1 <sup>o</sup> 7/ 7.5	17
2 1	11 32.73	- 3 35.2	1.262	2.085	19.2	19.9	2 1	11 32.42	- 1 15.1	1.727	2.539	15.4	21.9
2 11	11 28.19	- 3 52.8	1.197	2.092	15.1	19.6	2 11	11 27.55	- 0 54.3	1.632	2.525	11.9	21.6
2 21	11 20.74	- 3 47.4	1.151	2.100	10.2	19.4	2 21	11 20.25	- 0 14.8	1.559	2.512	7.7	21.3
3 2	11 11.27	- 3 20.4	1.128	2.109	5.4	19.1	3 2	11 11.16	+ 0 40.4	1.512	2.497	3.2	21.0
3 12	11 1.21	- 2 37.8	1.131	2.117	4.3	19.1	3 12	11 1.33	+ 1 45.2	1.493	2.482	2.8	20.9
3 22	10 52.05	- 1 47.7	1.158	2.127	8.5	19.3	3 22	10 51.92	+ 2 52.1	1.502	2.467	7.5	21.2
4 1	10 45.09	- 0 59.1	1.209	2.136	13.3	19.6	4 1	10 44.08	+ 3 53.3	1.538	2.451	12.0	21.4
4 11	10 41.12	- 0 19.9	1.280	2.146	17.5	19.9	4 11	10 38.64	+ 4 42.5	1.595	2.434	16.0	21.6
<b>379135</b>	2009 <i>CR</i> <sub>55</sub>		3 6.1	35 <sup>o</sup> .37	0 <sup>o</sup> 2/ 6.3	18	<b>373326</b>	2012 <i>JX</i> <sub>20</sub>		3 6.1	255 <sup>o</sup> .93	1 <sup>o</sup> 4/ 4.7	17
2 1	11 25.18	- 4 2.0	1.496	2.317	16.8	19.5	2 1	11 30.81	+ 7 19.2	1.917	2.751	13.1	21.3
2 11	11 21.96	- 1 47.3	1.448	2.349	12.5	19.3	2 11	11 26.04	+ 7 56.5	1.832	2.743	9.7	21.0
2 21	11 16.62	+ 0 52.9	1.423	2.382	7.6	19.1	2 21	11 19.16	+ 8 43.6	1.771	2.734	5.8	20.8
3 2	11 9.99	+ 3 47.2	1.427	2.416	2.3	18.8	3 2	11 10.80	+ 9 35.3	1.737	2.725	1.9	20.5
3 12	11 3.15	+ 6 40.7	1.461	2.450	2.9	19.0	3 12	11 1.91	+10 25.0	1.732	2.716	3.6	20.6
3 22	10 57.15	+ 9 19.4	1.524	2.484	7.8	19.3	3 22	10 53.51	+11 6.5	1.755	2.707	7.7	20.8
4 1	10 52.83	+11 33.0	1.613	2.520	12.0	19.7	4 1	10 46.55	+11 35.2	1.804	2.698	11.6	21.0
4 11	10 50.70	+13 16.7	1.726	2.555	15.4	20.0	4 11	10 41.71	+11 48.7	1.875	2.689	15.0	21.2
<b>384826</b>	2012 <i>RM</i> <sub>23</sub>		3 6.1	93 <sup>o</sup> .26	1 <sup>o</sup> 0/ 7.3	18	<b>337851</b>	2001 <i>VM</i> <sub>102</sub>		3 6.1	182 <sup>o</sup> .57	3 <sup>o</sup> 9/ 10.6	18
2 1	11 26.47	- 1 15.5	2.337	3.142	12.0	20.9	2 1	11 27.56	- 9 24.0	2.496	3.257	12.6	20.6
2 11	11 22.38	- 0 33.6	2.260	3.151	9.1	20.7	2 11	11 23.19	- 9 23.8	2.405	3.257	10.2	20.4
2 21	11 16.71	+ 0 22.4	2.207	3.160	5.8	20.5	2 21	11 17.23	- 9 6.6	2.336	3.257	7.5	20.2
3 2	11 10.02	+ 1 29.0	2.183	3.168	2.3	20.3	3 2	11 10.21	- 8 33.3	2.294	3.257	4.9	20.1
3 12	11 3.04	+ 2 40.6	2.188	3.177	2.0	20.3	3 12	11 2.81	- 7 46.8	2.280	3.256	3.9	20.0
3 22	10 56.50	+ 3 51.3	2.223	3.186	5.5	20.5	3 22	10 55.77	- 6 51.4	2.296	3.256	5.6	20.1
4 1	10 51.08	+ 4 55.6	2.285	3.194	8.8	20.7	4 1	10 49.79	- 5 52.8	2.339	3.256	8.3	20.3
4 11	10 47.29	+ 5 49.3	2.372	3.203	11.7	20.9	4 11	10 45.41	- 4 56.2	2.408	3.255	11.0	20.5
<b>110673</b>	2001 <i>TC</i> <sub>195</sub>		3 6.1	63 <sup>o</sup> .70	2 <sup>o</sup> 2/ 3.7	18	<b>184669</b>	2005 <i>SF</i> <sub>61</sub>		3 6.1	191 <sup>o</sup> .06	0 <sup>o</sup> 4/ 6.5	17
2 1	11 27.68	+ 5 32.9	1.617	2.461	14.6	19.5	2 1	11 30.06	+ 1 41.6	1.942	2.761	13.6	21.0
2 11	11 23.82	+ 7 14.7	1.559	2.476	10.6	19.3	2 11	11 25.40	+ 2 14.6	1.860	2.761	10.2	20.8
2 21	11 17.79	+ 9 11.1	1.526	2.492	6.2	19.1	2 21	11 18.72	+ 3 2.0	1.802	2.760	6.3	20.6
3 2	11 10.36	+11 12.4	1.520	2.507	2.4	18.9	3 2	11 10.66	+ 3 59.4	1.771	2.759	2.0	20.3
3 12	11 2.57	+13 7.3	1.542	2.523	4.6	19.1	3 12	11 2.15	+ 5 0.6	1.769	2.758	2.5	20.3
3 22	10 55.52	+14 45.9	1.593	2.539	8.9	19.3	3 22	10 54.14	+ 5 59.1	1.795	2.756	6.8	20.6
4 1	10 50.10	+16 1.9	1.668	2.555	12.8	19.6	4 1	10 47.54	+ 6 49.0	1.848	2.755	10.7	20.8
4 11	10 46.94	+16 52.9	1.765	2.571	16.0	19.9	4 11	10 42.99	+ 7 26.1	1.924	2.753	14.1	21.0
<b>493525</b>	2015 <i>FZ</i> <sub>38</sub>		3 6.1	47 <sup>o</sup> .56	1 <sup>o</sup> 9/ 8.3	18	<b>122861</b>	2000 <i>SZ</i> <sub>133</sub>		3 6.1	102 <sup>o</sup> .98	4 <sup>o</sup> 4/ 10.1	18
2 1	11 25.97	- 3 46.3	2.183	2.982	13.0	21.1	2 1	11 30.25	- 8 12.2	1.907	2.686	15.3	20.1
2 11	11 22.15	- 3 10.7	2.101	2.986	10.0	20.9	2 11	11 25.60	- 8 22.6	1.823	2.688	12.3	19.9
2 21	11 16.64	- 2 18.1	2.043	2.990	6.6	20.7	2 21	11 18.88	- 8 12.8	1.762	2.690	8.9	19.7
3 2	11 10.02	- 1 11.8	2.012	2.994	3.1	20.5	3 2	11 10.72	- 7 43.4	1.725	2.693	5.7	19.5
3 12	11 3.04	+ 0 2.9	2.011	2.999	2.4	20.5	3 12	11 2.07	- 6 57.9	1.716	2.695	4.5	19.4
3 22	10 56.51	+ 1 19.5	2.038	3.003	5.7	20.7	3 22	10 53.94	- 6 2.1	1.735	2.698	6.8	19.6
4 1	10 51.17	+ 2 31.5	2.093	3.008	9.1	20.9	4 1	10 47.25	- 5 3.0	1.780	2.700	10.2	19.8
4 11	10 47.55	+ 3 33.7	2.172	3.013	12.2	21.1	4 11	10 42.67	- 4 7.6	1.849	2.702	13.5	20.0
<b>246943</b>	1999 <i>RF</i> <sub>106</sub>		3 6.1	125 <sup>o</sup> .10	2 <sup>o</sup> 2/ 7.9	18	<b>138444</b>	2000 <i>JS</i> <sub>1</sub>		3 6.1	317 <sup>o</sup> .09	7 <sup>o</sup> 3/ 28.9	18
2 1	11 33.78	- 2 5.1	1.809	2.612	15.1	20.5	2 1	11 33.81	+21 56.2	1.597	2.453	14.2	19.6
2 11	11 28.17	- 1 59.0	1.736	2.623	11.6	20.3	2 11	11 28.69	+23 5.4	1.533	2.447	11.0	19.4
2 21	11 20.37	- 1 36.1	1.686	2.635	7.6	20.1	2 21	11 20.91	+24 11.6	1.491	2.442	8.2	19.2
3 2	11 11.12	- 0 59.3	1.663	2.646	3.5	19.9	3 2	11 11.33	+25 4.6	1.476	2.436	7.4	19.1
3 12	11 1.46	- 0 13.7	1.668	2.656	2.9	19.8	3 12	11 1.23	+25 35.5	1.486	2.431	9.3	19.2
3 22	10 52.47	+ 0 34.5	1.702	2.666	6.8	20.1	3 22	10 51.93	+25 39.5	1.521	2.426	12.5	19.4
4 1	10 45.10	+ 1 19.0	1.762	2.676	10.7	20.3	4 1	10 44.61	+25 16.2	1.579	2.421	15.8	19.6
4 11	10 40.01	+ 1 54.7	1.845	2.685	14.1	20.6	4 11	10 39.99	+24 28.6	1.6			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>83679</b>	2001 <i>TB</i> <sub>48</sub>		3 6.1 256°95	0°6/ 6.7 18			<b>460098</b>	2014 <i>PJ</i>		3 6.1 156°29	3°0/ 8.6 18		
2 1	11 27.53	- 0 43.9	1.864	2.681	14.1	19.7	2 1	11 33.88	- 3 58.2	1.818	2.612	15.4	21.7
2 11	11 23.69	+ 0 18.2	1.774	2.673	10.7	19.5	2 11	11 28.36	- 3 59.0	1.738	2.618	12.0	21.5
2 21	11 17.79	+ 1 40.1	1.707	2.664	6.7	19.2	2 21	11 20.58	- 3 41.8	1.680	2.623	8.1	21.3
3 2	11 10.44	+ 3 16.8	1.667	2.655	2.2	18.9	3 2	11 11.27	- 3 8.4	1.649	2.627	4.3	21.1
3 12	11 2.53	+ 5 0.2	1.657	2.646	2.6	18.9	3 12	11 1.45	- 2 23.4	1.645	2.631	3.4	21.0
3 22	10 55.06	+ 6 41.1	1.675	2.637	7.1	19.1	3 22	10 52.24	- 1 32.9	1.671	2.635	6.8	21.2
4 1	10 48.96	+ 8 11.2	1.720	2.627	11.3	19.4	4 1	10 44.62	- 0 43.6	1.723	2.638	10.8	21.5
4 11	10 44.93	+ 9 24.5	1.787	2.618	14.9	19.6	4 11	10 39.30	- 0 1.5	1.798	2.641	14.3	21.7
<b>265637</b>	2005 <i>SV</i> <sub>289</sub>		3 6.1 195°57	1°5/ 7.6 18			<b>24024</b>	Lynnejohnson		3 6.1 110°20	2°0/ 4.1 18		
2 1	11 29.96	- 1 21.9	2.058	2.863	13.4	21.0	2 1	11 31.73	+ 7 0.9	1.724	2.561	14.2	18.6
2 11	11 25.25	- 0 56.8	1.971	2.861	10.3	20.8	2 11	11 26.72	+ 8 11.9	1.663	2.576	10.4	18.4
2 21	11 18.62	- 0 16.0	1.908	2.859	6.6	20.6	2 21	11 19.53	+ 9 34.1	1.627	2.591	6.1	18.2
3 2	11 10.66	+ 0 37.4	1.873	2.857	2.8	20.3	3 2	11 10.94	+ 11 0.0	1.618	2.605	2.3	18.0
3 12	11 2.24	+ 1 37.9	1.866	2.855	2.4	20.3	3 12	11 2.00	+ 12 20.3	1.638	2.619	4.2	18.1
3 22	10 54.29	+ 2 39.4	1.888	2.852	6.2	20.5	3 22	10 53.80	+ 13 27.5	1.686	2.633	8.4	18.4
4 1	10 47.64	+ 3 35.7	1.938	2.849	10.0	20.8	4 1	10 47.26	+ 14 16.5	1.759	2.646	12.2	18.7
4 11	10 42.95	+ 4 21.9	2.011	2.846	13.3	21.0	4 11	10 43.01	+ 14 45.5	1.854	2.659	15.4	18.9
<b>32291</b>	2000 <i>QP</i> <sub>8</sub>		3 6.1 353°46	2°0/ 7.3 18			<b>135213</b>	2001 <i>RE</i> <sub>82</sub>		3 6.1 114°53	3°3/ 9.8 18		
2 1	11 35.24	+ 1 50.7	1.526	2.350	16.4	17.6	2 1	11 29.48	- 6 52.0	2.451	3.222	12.5	19.6
2 11	11 29.77	+ 1 14.6	1.446	2.347	12.6	17.3	2 11	11 24.57	- 6 56.3	2.370	3.232	10.0	19.5
2 21	11 21.63	+ 0 50.7	1.389	2.344	8.1	17.0	2 21	11 18.06	- 6 45.3	2.312	3.241	7.1	19.3
3 2	11 11.58	+ 0 37.7	1.357	2.342	3.5	16.7	3 2	11 10.49	- 6 20.1	2.281	3.251	4.3	19.1
3 12	11 0.89	+ 0 32.2	1.352	2.341	3.2	16.7	3 12	11 2.61	- 5 44.0	2.280	3.260	3.4	19.1
3 22	10 50.88	+ 0 30.2	1.374	2.340	7.9	17.0	3 22	10 55.16	- 5 1.1	2.308	3.269	5.4	19.2
4 1	10 42.78	+ 0 27.0	1.422	2.340	12.4	17.3	4 1	10 48.85	- 4 16.3	2.364	3.278	8.3	19.4
4 11	10 37.41	+ 0 18.6	1.490	2.340	16.3	17.5	4 11	10 44.18	- 3 34.5	2.445	3.287	11.0	19.6
<b>52704</b>	1998 <i>FX</i> <sub>74</sub>		3 6.1 247°90	2°0/ 3.8 18			<b>499798</b>	2011 <i>CL</i> <sub>78</sub>		3 6.1 331°62	1°2/ 7.2 17		
2 1	11 30.19	+ 11 18.2	2.553	3.384	10.3	18.0	2 1	11 28.98	- 0 16.1	1.802	2.620	14.5	21.8
2 11	11 25.10	+ 11 47.2	2.464	3.374	7.6	17.8	2 11	11 24.77	+ 0 7.7	1.720	2.618	11.1	21.6
2 21	11 18.39	+ 12 20.5	2.402	3.364	4.6	17.6	2 21	11 18.44	+ 0 48.1	1.661	2.617	7.0	21.3
3 2	11 10.58	+ 12 53.6	2.368	3.354	2.1	17.4	3 2	11 10.65	+ 1 41.4	1.629	2.615	2.7	21.0
3 12	11 2.38	+ 13 22.2	2.365	3.343	3.5	17.5	3 12	11 2.36	+ 2 41.6	1.624	2.613	2.5	21.0
3 22	10 54.57	+ 13 42.3	2.391	3.333	6.6	17.7	3 22	10 54.60	+ 3 41.6	1.647	2.612	6.9	21.3
4 1	10 47.84	+ 13 51.4	2.444	3.322	9.6	17.9	4 1	10 48.31	+ 4 34.8	1.696	2.610	11.0	21.5
4 11	10 42.75	+ 13 48.3	2.521	3.311	12.3	18.0	4 11	10 44.18	+ 5 16.2	1.767	2.609	14.5	21.7
<b>285741</b>	2000 <i>TH</i> <sub>23</sub>		3 6.1 157°66	1°7/ 8.2 18			<b>312011</b>	2007 <i>RW</i> <sub>2</sub>		3 6.1 151°82	0°0/ 5.9 18		
2 1	11 26.17	- 3 18.1	2.550	3.342	11.5	20.5	2 1	11 33.10	+ 2 38.9	1.947	2.763	13.7	22.4
2 11	11 22.10	- 2 45.2	2.463	3.345	8.9	20.3	2 11	11 27.58	+ 3 22.0	1.873	2.773	10.2	22.2
2 21	11 16.55	- 1 58.1	2.401	3.347	5.8	20.1	2 21	11 20.01	+ 4 18.6	1.823	2.782	6.2	22.0
3 2	11 10.03	- 0 59.4	2.367	3.348	2.8	19.9	3 2	11 11.09	+ 5 23.6	1.801	2.790	1.8	21.7
3 12	11 3.19	+ 0 6.4	2.362	3.350	2.1	19.8	3 12	11 1.78	+ 6 30.4	1.809	2.797	2.7	21.8
3 22	10 56.71	+ 1 13.9	2.387	3.352	5.1	20.0	3 22	10 53.07	+ 7 32.0	1.846	2.804	6.9	22.1
4 1	10 51.25	+ 2 18.0	2.441	3.353	8.2	20.2	4 1	10 45.86	+ 8 23.0	1.910	2.810	10.8	22.3
4 11	10 47.29	+ 3 14.1	2.520	3.355	10.9	20.4	4 11	10 40.76	+ 8 59.7	1.998	2.815	14.0	22.5
<b>148786</b>	2001 <i>UD</i> <sub>32</sub>		3 6.1 32°32	0°9/ 5.3 18			<b>462201</b>	2007 <i>VF</i> <sub>58</sub>		3 6.1 189°90	0°0/ 5.9 17		
2 1	11 28.02	+ 4 9.2	1.399	2.247	16.3	19.1	2 1	11 32.02	+ 2 4.6	2.081	2.894	13.0	22.8
2 11	11 24.38	+ 5 1.3	1.340	2.257	12.0	18.8	2 11	11 26.78	+ 2 49.9	1.995	2.893	9.8	22.5
2 21	11 18.28	+ 6 9.6	1.303	2.269	7.1	18.6	2 21	11 19.56	+ 3 49.0	1.933	2.891	6.0	22.3
3 2	11 10.57	+ 7 26.7	1.292	2.281	2.0	18.3	3 2	11 10.98	+ 4 57.5	1.900	2.889	1.8	22.0
3 12	11 2.46	+ 8 42.7	1.307	2.294	3.7	18.4	3 12	11 1.93	+ 6 8.9	1.897	2.885	2.5	22.1
3 22	10 55.17	+ 9 48.6	1.347	2.308	8.7	18.8	3 22	10 53.35	+ 7 16.5	1.924	2.881	6.7	22.3
4 1	10 49.75	+ 10 37.6	1.412	2.322	13.1	19.0	4 1	10 46.11	+ 8 14.3	1.978	2.877	10.5	22.5
4 11	10 46.86	+ 11 6.5	1.497	2.336	16.8	19.3	4 11	10 40.87	+ 8 58.4	2.055	2.871	13.8	22.7
<b>375343</b>	2008 <i>SJ</i> <sub>30</sub>		3 6.1 153°00	0°6/ 6.8 16			<b>162481</b>	2000 <i>OM</i> <sub>56</sub>		3 6.1 238°20	1°1/ 5.2 17		
2 1	11 28.75	+ 0 10.1	2.473	3.276	11.5	21.8	2 1	11 34.97	+ 6 25.5	1.848	2.675	13.8	21.5
2 11	11 24.00	+ 0 55.3	2.393	3.284	8.7	21.7	2 11	11 29.34	+ 6 56.3	1.754	2.660	10.3	21.3
2 21	11 17.69	+ 1 53.1	2.338	3.292	5.4	21.5	2 21	11 21.32	+ 7 38.2	1.683	2.645	6.2	20.9
3 2	11 10.36	+ 2 59.8	2.312	3.299	1.9	21.2	3 2	11 11.55	+ 8 26.0	1.640	2.629	1.9	20.6
3 12	11 2.73	+ 4 10.1	2.316	3.305	2.0	21.3	3 12	11 1.07	+ 9 13.3	1.626	2.612	3.5	20.7
3 22	10 55.53	+ 5 18.4	2.351	3.311	5.5	21.5	3 22	10 51.03	+ 9 53.5	1.641	2.594	8.0	20.9
4 1	10 49.42	+ 6 19.6	2.414	3.317	8.7	21.7	4 1	10 42.53	+ 10 21.5	1.682	2.576	12.3	21.1
4 11	10 44.93	+ 7 9.9	2.503	3.322	11.5	21.9	4 11	10 36.37	+ 10 34.4	1.745	2.557	16.0	21.3
<b>351630</b>	2005 <i>XQ</i> <sub>64</sub>		3 6.1 125°96	3°0/ 3.4 18			<b>503736</b>	2016 <i>LH</i> <sub>24</sub>		3 6.1 229°23	4°2/ 29.9 17		
2 1	11 35.60	+ 10 3.7	1.754	2.591	14.0	21.3	2 1	11 29.19	+ 16 26.3	2.384	3.228	10.5	21.7
2 11	11 29.50	+ 11 15.1	1.697	2.610	10.2	21.1	2 11	11 24.54	+ 17 38.2	2.306	3.219	7.8	21.5
2 21	11 21.16	+ 12 34.2	1.665	2.628	6.1	20.9	2 21	11 18.14	+ 18 52.6	2.253	3.211	5.3	21.3
3 2	11 11.39	+ 13 52.7	1.661	2.646	3.1	20.7	3 2	11 10.55	+ 20 2.9	2.230	3.202	4.2	21.2
3 12	11 1.31	+ 15 1.9	1.687	2.663	5.0	20.9	3 12	11 2.56	+ 21 2.5	2.236	3.193	5.8	21.3
3 22	10 52.07	+ 15 55.4	1.740	2.679	8.9	21.1	3 22	10 54.97	+ 21 46.5	2.271	3.183	8.5	21.5
4 1	10 44.60	+ 16 29.3	1.819	2.694	12.5	21.4	4 1	10 48.56	+ 22 12.1	2.330	3.174	11.3	21.6
4 11	10 39.52	+ 16 43.2	1.920	2.708	15.6	21.6	4 11	10 43.90	+ 22 19.1	2.412	3.164	13.8	21.8
<b>209906</b>	2005 <i>NM</i> <sub>4</sub>		3 6.1 299°20	1°6/ 7.8 17			<b>298813</b>	2004 <i>RS</i> <sub>57</sub>		3 6.1 94°91</			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>312126</b>	2007 TU <sub>239</sub>	3 6.1 36°40	1°0/ 5.4 18				<b>368792</b>	2005 XZ <sub>49</sub>	3 6.1 81°75	3°1/ 8.9 18			
2 1	11 31.73	+ 5 37.2	1.364	2.211	16.7	21.0	2 1	11 32.10	- 4 36.3	1.881	2.673	15.0	20.8
2 11	11 27.26	+ 6 6.7	1.301	2.218	12.3	20.7	2 11	11 26.84	- 4 37.2	1.814	2.692	11.7	20.7
2 21	11 20.11	+ 6 50.0	1.260	2.225	7.4	20.5	2 21	11 19.56	- 4 20.2	1.770	2.711	8.0	20.5
3 2	11 11.17	+ 7 40.8	1.244	2.233	2.1	20.2	3 2	11 10.98	- 3 47.5	1.752	2.729	4.3	20.3
3 12	11 1.74	+ 8 30.4	1.254	2.241	3.8	20.3	3 12	11 2.08	- 3 3.8	1.762	2.747	3.4	20.3
3 22	10 53.18	+ 9 11.1	1.290	2.250	8.9	20.6	3 22	10 53.85	- 2 15.0	1.801	2.766	6.4	20.5
4 1	10 46.66	+ 9 37.1	1.349	2.259	13.6	20.9	4 1	10 47.16	- 1 27.3	1.866	2.783	10.0	20.7
4 11	10 42.88	+ 9 45.7	1.429	2.269	17.5	21.2	4 11	10 42.60	- 0 46.2	1.955	2.801	13.2	21.0
<b>462855</b>	2010 UY <sub>95</sub>	3 6.1 131°68	5°6/29.9 18				<b>9615</b>	Hemerijckx	3 6.1 131°02	1°0/ 6.9 18			
2 1	11 36.61	+20 32.8	2.007	2.847	12.4	21.0	2 1	11 33.02	- 0 33.8	1.623	2.439	15.9	17.9
2 11	11 30.10	+21 28.5	1.951	2.859	9.4	20.9	2 11	11 27.86	+ 0 8.1	1.553	2.451	12.1	17.6
2 21	11 21.47	+22 21.1	1.920	2.871	6.7	20.7	2 21	11 20.34	+ 1 9.1	1.506	2.462	7.6	17.4
3 2	11 11.52	+23 3.3	1.918	2.882	5.6	20.7	3 2	11 11.24	+ 2 24.1	1.486	2.473	2.7	17.1
3 12	11 1.29	+23 28.6	1.943	2.892	7.1	20.8	3 12	11 1.69	+ 3 44.8	1.493	2.483	2.7	17.1
3 22	10 51.87	+23 33.9	1.997	2.902	9.9	21.0	3 22	10 52.88	+ 5 2.4	1.529	2.492	7.5	17.4
4 1	10 44.13	+23 18.8	2.075	2.912	12.8	21.2	4 1	10 45.83	+ 6 9.4	1.591	2.501	11.9	17.7
4 11	10 38.67	+22 45.1	2.174	2.921	15.2	21.4	4 11	10 41.24	+ 7 0.4	1.674	2.509	15.5	18.0
<b>296245</b>	2009 DQ <sub>12</sub>	3 6.1 233°11	1°5/ 7.4 16				<b>24702</b>	1991 OR	3 6.1 148°75	8°9/26.1 18			
2 1	11 33.33	- 0 30.8	1.970	2.774	14.0	21.2	2 1	11 32.54	+16 7.8	1.212	2.081	16.8	17.7
2 11	11 27.98	- 0 18.9	1.872	2.762	10.8	20.9	2 11	11 28.44	+19 39.8	1.162	2.088	12.6	17.5
2 21	11 20.43	+ 0 8.2	1.797	2.748	7.0	20.7	2 21	11 21.14	+23 20.8	1.137	2.093	9.4	17.3
3 2	11 11.29	+ 0 47.8	1.750	2.735	2.9	20.4	3 2	11 11.55	+26 48.2	1.140	2.099	9.4	17.3
3 12	11 1.49	+ 1 35.1	1.732	2.720	2.6	20.3	3 12	11 1.20	+29 40.7	1.170	2.103	12.5	17.5
3 22	10 52.09	+ 2 24.2	1.742	2.705	6.8	20.6	3 22	10 51.78	+31 45.9	1.223	2.107	16.5	17.7
4 1	10 44.08	+ 3 9.1	1.780	2.690	10.9	20.8	4 1	10 44.75	+33 1.0	1.297	2.111	20.2	18.0
4 11	10 38.22	+ 3 44.6	1.841	2.673	14.5	21.0	4 11	10 40.99	+33 31.0	1.385	2.114	23.2	18.2
<b>154744</b>	2004 OV <sub>2</sub>	3 6.1 230°62	0°2/ 6.3 17				<b>226710</b>	2004 OM <sub>11</sub>	3 6.1 148°84	5°5/28.3 18			
2 1	11 29.84	+ 2 14.8	1.993	2.812	13.3	20.7	2 1	11 32.15	+21 43.0	2.397	3.238	10.6	20.5
2 11	11 25.27	+ 2 49.2	1.905	2.807	10.0	20.5	2 11	11 26.63	+23 3.8	2.341	3.247	8.1	20.4
2 21	11 18.71	+ 3 37.4	1.842	2.801	6.1	20.2	2 21	11 19.33	+24 21.9	2.312	3.257	6.1	20.3
3 2	11 10.76	+ 4 35.2	1.806	2.794	1.9	19.9	3 2	11 10.90	+25 30.1	2.312	3.266	5.6	20.2
3 12	11 2.31	+ 5 36.5	1.799	2.788	2.5	20.0	3 12	11 2.19	+26 22.1	2.341	3.274	7.1	20.3
3 22	10 54.31	+ 6 34.9	1.821	2.781	6.8	20.2	3 22	10 54.04	+26 54.4	2.397	3.281	9.4	20.5
4 1	10 47.66	+ 7 24.4	1.869	2.774	10.7	20.4	4 1	10 47.22	+27 5.7	2.478	3.288	11.7	20.7
4 11	10 43.01	+ 8 1.0	1.941	2.767	14.0	20.6	4 11	10 42.25	+26 57.4	2.579	3.295	13.8	20.8
<b>425829</b>	2011 ER <sub>16</sub>	3 6.1 44°65	3°1/ 3.7 18				<b>376208</b>	2011 DH <sub>15</sub>	3 6.1 292°78	0°9/ 6.9 17			
2 1	11 33.91	+12 32.0	1.644	2.491	14.3	20.7	2 1	11 29.88	+ 0 55.8	1.847	2.666	14.2	21.7
2 11	11 28.44	+12 58.5	1.585	2.502	10.5	20.5	2 11	11 25.41	+ 1 16.3	1.764	2.663	10.7	21.4
2 21	11 20.61	+13 29.1	1.548	2.512	6.4	20.2	2 21	11 18.84	+ 1 51.7	1.704	2.660	6.7	21.2
3 2	11 11.29	+13 57.3	1.539	2.523	3.2	20.1	3 2	11 10.81	+ 2 38.4	1.671	2.658	2.4	20.9
3 12	11 1.63	+14 16.7	1.557	2.535	5.0	20.2	3 12	11 2.28	+ 3 30.6	1.665	2.655	2.5	20.9
3 22	10 52.83	+14 22.8	1.601	2.547	9.0	20.5	3 22	10 54.26	+ 4 21.8	1.688	2.652	6.9	21.2
4 1	10 45.87	+14 13.3	1.671	2.559	12.7	20.7	4 1	10 47.70	+ 5 6.1	1.737	2.649	10.9	21.4
4 11	10 41.37	+13 48.4	1.762	2.571	16.0	20.9	4 11	10 43.27	+ 5 38.9	1.809	2.647	14.4	21.6
<b>148550</b>	2001 QA <sub>152</sub>	3 6.1 194°71	12°8/19.2 18				<b>333065</b>	2011 UX <sub>17</sub>	3 6.1 77°61	1°3/ 7.1 18			
2 1	11 37.34	-33 20.7	2.340	2.913	17.7	19.7	2 1	11 32.69	- 0 13.4	1.469	2.293	16.9	20.8
2 11	11 31.20	-35 2.4	2.248	2.911	16.4	19.6	2 11	11 27.74	+ 0 10.7	1.408	2.309	12.8	20.6
2 21	11 22.55	-36 18.6	2.172	2.909	15.1	19.4	2 21	11 20.30	+ 0 53.7	1.368	2.324	8.1	20.4
3 2	11 11.97	-37 3.1	2.115	2.906	13.8	19.3	3 2	11 11.22	+ 1 50.8	1.354	2.340	3.0	20.1
3 12	11 0.46	-37 12.5	2.080	2.903	13.0	19.3	3 12	11 1.75	+ 2 54.2	1.366	2.356	2.9	20.1
3 22	10 49.21	-36 47.2	2.067	2.900	12.8	19.2	3 22	10 53.14	+ 3 55.7	1.406	2.371	7.7	20.5
4 1	10 39.41	-35 51.9	2.076	2.896	13.4	19.3	4 1	10 46.46	+ 4 47.6	1.470	2.387	12.2	20.8
4 11	10 31.97	-34 35.2	2.107	2.891	14.5	19.3	4 11	10 42.38	+ 5 25.2	1.556	2.402	16.0	21.0
<b>198162</b>	2004 TG <sub>73</sub>	3 6.1 278°52	3°9/ 2.7 18				<b>284324</b>	2006 QM <sub>166</sub>	3 6.1 169°20	2°9/ 9.3 17			
2 1	11 32.97	+14 45.4	1.897	2.742	12.8	20.2	2 1	11 31.15	- 5 32.3	2.761	3.528	11.4	20.9
2 11	11 27.73	+15 25.6	1.816	2.731	9.5	20.0	2 11	11 25.69	- 5 47.0	2.670	3.531	9.0	20.8
2 21	11 20.25	+16 9.0	1.759	2.721	6.1	19.8	2 21	11 18.72	- 5 49.2	2.603	3.534	6.3	20.6
3 2	11 11.22	+16 48.8	1.730	2.710	3.9	19.6	3 2	11 10.74	- 5 39.8	2.565	3.536	3.8	20.4
3 12	11 1.66	+17 18.3	1.729	2.699	5.6	19.7	3 12	11 2.41	- 5 21.1	2.557	3.538	3.1	20.4
3 22	10 52.66	+17 32.4	1.755	2.689	9.2	19.9	3 22	10 54.44	- 4 56.2	2.579	3.539	5.1	20.5
4 1	10 45.22	+17 28.8	1.807	2.678	12.8	20.1	4 1	10 47.47	- 4 29.0	2.630	3.540	7.8	20.7
4 11	10 40.03	+17 7.4	1.879	2.668	15.9	20.3	4 11	10 42.03	- 4 3.2	2.707	3.541	10.3	20.9
<b>437095</b>	2012 UJ <sub>88</sub>	3 6.1 170°74	0°7/ 6.9 17				<b>426487</b>	2013 RA <sub>22</sub>	3 6.1 138°48	1°3/ 4.7 17			
2 1	11 28.14	+ 0 56.4	2.722	3.524	10.6	22.2	2 1	11 30.02	+ 6 41.1	2.106	2.936	12.3	21.1
2 11	11 23.47	+ 1 21.0	2.636	3.527	8.0	22.0	2 11	11 25.21	+ 7 28.5	2.033	2.942	9.0	20.9
2 21	11 17.37	+ 1 56.0	2.576	3.529	5.0	21.8	2 21	11 18.56	+ 8 25.2	1.985	2.948	5.3	20.7
3 2	11 10.32	+ 2 38.5	2.545	3.531	1.8	21.6	3 2	11 10.70	+ 9 25.9	1.965	2.954	1.7	20.4
3 12	11 2.98	+ 3 24.4	2.544	3.533	1.8	21.6	3 12	11 2.49	+10 24.2	1.975	2.959	3.2	20.6
3 22	10 55.99	+ 4 9.7	2.573	3.534	5.0	21.8	3 22	10 54.82	+11 14.5	2.014	2.965	7.0	20.8
4 1	10 49.99	+ 4 50.3	2.631	3.535	8.0	22.0	4 1	10 48.47	+11 52.4	2.079	2.970	10.5	21.0
4 11	10 45.44	+ 5 22.9	2.714	3.535	10.6	22.2	4 11	10 44.01	+12 15.5	2.167	2.974	13.4	21.2
<b>412518</b>	2014 MD <sub>17</sub>	3 6.1 264°63	1°4/ 4.9 17				<b>188078</b>	2001 XA <sub>64</sub>	3 6.1 151°45	5°8/12.6 18			
2 1	11 31.08	+ 5 19.5	1.561	2.401	15.3								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>319973</b>	2007 CQ <sub>15</sub>		3 6.1 135°36	1°0/ 5.1 18			<b>502589</b>	2015 CS <sub>5</sub>		3 6.1 118°08	2°1/ 3.9 17		
2 1	11 30.95	+ 5 36.6	1.918	2.748	13.3	21.2	2 1	11 29.11	+ 8 16.4	1.984	2.822	12.6	21.6
2 11	11 26.05	+ 6 22.3	1.846	2.755	9.8	21.0	2 11	11 24.67	+ 9 17.0	1.913	2.827	9.2	21.4
2 21	11 19.14	+ 7 19.1	1.798	2.761	5.8	20.7	2 21	11 18.31	+10 26.9	1.867	2.831	5.4	21.2
3 2	11 10.89	+ 8 21.5	1.778	2.767	1.7	20.5	3 2	11 10.68	+11 39.5	1.849	2.836	2.2	21.0
3 12	11 2.25	+ 9 22.4	1.787	2.773	3.2	20.6	3 12	11 2.67	+12 47.4	1.859	2.840	4.0	21.1
3 22	10 54.20	+10 15.6	1.824	2.778	7.3	20.9	3 22	10 55.20	+13 44.3	1.898	2.844	7.7	21.3
4 1	10 47.62	+10 56.0	1.888	2.783	11.1	21.1	4 1	10 49.12	+14 25.8	1.963	2.848	11.3	21.5
4 11	10 43.12	+11 21.0	1.974	2.788	14.3	21.3	4 11	10 45.01	+14 49.7	2.050	2.852	14.3	21.7
<b>95510</b>	2002 EL <sub>51</sub>		3 6.1 123°43	0°4/ 5.7 18			<b>111039</b>	2001 VJ <sub>23</sub>		3 6.1 63°82	2°5/ 8.3 18		
2 1	11 30.02	+ 4 3.6	2.023	2.847	12.9	20.4	2 1	11 30.84	- 3 3.3	1.673	2.482	15.9	19.5
2 11	11 25.26	+ 4 43.8	1.950	2.855	9.6	20.2	2 11	11 26.16	- 2 51.9	1.607	2.497	12.2	19.3
2 21	11 18.62	+ 5 35.6	1.901	2.862	5.7	19.9	2 21	11 19.28	- 2 21.6	1.564	2.513	8.1	19.0
3 2	11 10.73	+ 6 34.2	1.880	2.869	1.6	19.7	3 2	11 10.97	- 1 35.3	1.546	2.528	3.9	18.8
3 12	11 2.48	+ 7 33.2	1.888	2.875	2.7	19.8	3 12	11 2.29	- 0 39.3	1.556	2.544	3.0	18.8
3 22	10 54.78	+ 8 26.7	1.925	2.882	6.7	20.0	3 22	10 54.34	+ 0 19.4	1.593	2.560	6.9	19.1
4 1	10 48.44	+ 9 9.6	1.988	2.888	10.4	20.3	4 1	10 48.05	+ 1 13.6	1.656	2.576	10.9	19.3
4 11	10 44.07	+ 9 38.8	2.075	2.894	13.5	20.5	4 11	10 44.05	+ 1 57.8	1.742	2.592	14.4	19.6
<b>456874</b>	2007 VM <sub>68</sub>		3 6.1 85°44	0°9/ 6.9 18			<b>236672</b>	2006 PK <sub>35</sub>		3 6.1 179°27	4°1/29.7 17	R	
2 1	11 33.40	+ 0 19.5	1.602	2.421	16.0	21.7	2 1	11 28.22	+16 40.6	2.522	3.364	10.0	20.6
2 11	11 28.03	+ 0 50.5	1.544	2.444	12.0	21.5	2 11	11 23.72	+17 59.2	2.452	3.365	7.5	20.4
2 21	11 20.35	+ 1 38.4	1.509	2.466	7.4	21.3	2 21	11 17.62	+19 19.5	2.409	3.366	5.1	20.3
3 2	11 11.23	+ 2 38.2	1.501	2.488	2.6	21.0	3 2	11 10.47	+20 35.2	2.396	3.366	4.1	20.2
3 12	11 1.81	+ 3 42.4	1.520	2.509	2.7	21.1	3 12	11 2.98	+21 40.0	2.413	3.366	5.6	20.3
3 22	10 53.26	+ 4 43.1	1.567	2.530	7.3	21.4	3 22	10 55.92	+22 29.4	2.457	3.366	8.2	20.5
4 1	10 46.52	+ 5 34.0	1.640	2.551	11.5	21.7	4 1	10 49.96	+23 0.7	2.528	3.365	10.7	20.6
4 11	10 42.21	+ 6 10.7	1.735	2.572	15.0	22.0	4 11	10 45.64	+23 13.8	2.620	3.364	13.0	20.8
<b>200610</b>	2001 RB <sub>156</sub>		3 6.1 147°38	1°6/ 4.5 18			<b>74616</b>	1999 RJ <sub>22</sub>		3 6.1 179°97	0°1/ 5.9 18		
2 1	11 32.98	+ 5 30.3	1.917	2.742	13.5	20.8	2 1	11 32.71	+ 3 15.4	2.086	2.902	12.9	21.1
2 11	11 27.53	+ 6 46.5	1.848	2.755	9.9	20.6	2 11	11 27.29	+ 3 53.5	2.004	2.903	9.6	20.9
2 21	11 20.02	+ 8 15.2	1.804	2.766	5.8	20.4	2 21	11 19.89	+ 4 43.9	1.946	2.904	5.8	20.6
3 2	11 11.14	+ 9 49.1	1.789	2.777	1.9	20.1	3 2	11 11.16	+ 5 42.0	1.916	2.905	1.7	20.3
3 12	11 1.90	+11 19.6	1.804	2.787	3.7	20.3	3 12	11 1.99	+ 6 41.9	1.917	2.904	2.6	20.4
3 22	10 53.28	+12 39.0	1.848	2.796	7.8	20.5	3 22	10 53.32	+ 7 37.3	1.946	2.903	6.7	20.7
4 1	10 46.18	+13 41.6	1.920	2.804	11.5	20.8	4 1	10 46.02	+ 8 23.1	2.003	2.902	10.4	20.9
4 11	10 41.24	+14 24.8	2.013	2.811	14.6	21.0	4 11	10 40.71	+ 8 55.8	2.084	2.899	13.6	21.1
<b>361167</b>	2006 KY <sub>64</sub>		3 6.1 319°12	1°5/ 7.1 16			<b>223644</b>	2004 MG		3 6.1 215°51	3°7/10.5 17		
2 1	11 29.06	+ 0 25.1	1.290	2.130	17.8	21.0	2 1	11 29.86	- 9 42.2	2.505	3.259	12.7	21.5
2 11	11 25.77	+ 0 33.7	1.203	2.113	13.8	20.7	2 11	11 25.02	- 9 27.7	2.401	3.250	10.3	21.3
2 21	11 19.56	+ 1 3.1	1.137	2.097	8.8	20.4	2 21	11 18.48	- 8 54.8	2.319	3.240	7.5	21.1
3 2	11 11.15	+ 1 50.1	1.094	2.081	3.4	20.0	3 2	11 10.75	- 8 4.5	2.265	3.229	4.8	20.9
3 12	11 1.79	+ 2 47.6	1.075	2.065	3.3	20.0	3 12	11 2.56	- 7 0.1	2.240	3.218	3.8	20.8
3 22	10 52.97	+ 3 46.3	1.082	2.050	9.0	20.2	3 22	10 54.66	- 5 46.6	2.245	3.206	5.6	20.9
4 1	10 46.11	+ 4 37.0	1.111	2.037	14.4	20.5	4 1	10 47.83	- 4 30.3	2.279	3.193	8.6	21.1
4 11	10 42.21	+ 5 12.6	1.159	2.023	19.1	20.7	4 11	10 42.63	- 3 17.4	2.338	3.179	11.5	21.3
<b>314181</b>	2005 GO <sub>136</sub>		3 6.1 348°56	0°2/ 5.8 17			<b>77149</b>	2001 ER <sub>7</sub>		3 6.1 57°37	3°0/ 4.1 18		
2 1	11 23.55	+ 3 21.2	2.416	3.242	11.0	20.1	2 1	11 33.65	+ 8 51.1	1.191	2.050	17.8	19.3
2 11	11 20.32	+ 4 3.9	2.330	3.236	8.2	19.9	2 11	11 29.04	+ 9 44.6	1.135	2.058	13.1	19.0
2 21	11 15.59	+ 4 57.5	2.269	3.230	4.9	19.6	2 21	11 21.36	+10 50.6	1.100	2.067	7.8	18.7
3 2	11 9.85	+ 5 58.1	2.236	3.225	1.4	19.4	3 2	11 11.63	+11 59.4	1.088	2.076	3.2	18.5
3 12	11 3.77	+ 7 0.4	2.232	3.220	2.2	19.4	3 12	11 1.39	+12 59.6	1.102	2.085	5.6	18.7
3 22	10 58.04	+ 7 59.0	2.257	3.216	5.8	19.7	3 22	10 52.21	+13 42.5	1.141	2.094	10.8	19.0
4 1	10 53.32	+ 8 49.3	2.309	3.212	9.0	19.9	4 1	10 45.39	+14 3.0	1.202	2.104	15.6	19.3
4 11	10 50.12	+ 9 27.9	2.385	3.209	11.8	20.0	4 11	10 41.69	+14 0.4	1.281	2.113	19.6	19.5
<b>207172</b>	2005 CX <sub>62</sub>		3 6.1 324°81	3°2/ 3.6 18			<b>380105</b>	2013 TS <sub>23</sub>		3 6.1 210°41	1°1/ 7.2 17		
2 1	11 31.11	+10 12.6	1.427	2.282	15.6	20.0	2 1	11 30.69	+ 0 14.7	2.182	2.988	12.7	21.3
2 11	11 26.91	+11 5.0	1.354	2.275	11.5	19.7	2 11	11 25.76	+ 0 31.4	2.093	2.984	9.7	21.1
2 21	11 20.02	+12 7.7	1.303	2.270	7.0	19.5	2 21	11 18.97	+ 1 1.2	2.027	2.980	6.2	20.9
3 2	11 11.23	+13 12.5	1.278	2.264	3.3	19.2	3 2	11 10.90	+ 1 41.2	1.990	2.976	2.4	20.6
3 12	11 1.79	+14 9.4	1.279	2.259	5.6	19.4	3 12	11 2.38	+ 2 26.8	1.982	2.971	2.2	20.6
3 22	10 53.06	+14 50.6	1.306	2.254	10.2	19.6	3 22	10 54.27	+ 3 12.7	2.003	2.966	6.0	20.8
4 1	10 46.27	+15 11.0	1.355	2.249	14.7	19.8	4 1	10 47.42	+ 3 53.8	2.052	2.960	9.7	21.1
4 11	10 42.22	+15 9.3	1.425	2.245	18.5	20.1	4 11	10 42.42	+ 4 26.0	2.124	2.954	12.9	21.2
<b>412637</b>	2014 OA <sub>180</sub>		3 6.1 79°62	0°3/ 5.9 18			<b>312186</b>	2007 VZ <sub>63</sub>		3 6.1 346°75	6°3/11.1 18		
2 1	11 35.51	+ 4 35.9	1.587	2.417	15.6	21.3	2 1	11 30.25	-10 28.0	1.509	2.293	18.4	20.0
2 11	11 29.57	+ 4 57.9	1.533	2.440	11.5	21.1	2 11	11 26.22	-10 54.1	1.427	2.291	15.1	19.8
2 21	11 21.27	+ 5 32.1	1.501	2.463	6.9	20.9	2 21	11 19.62	-10 54.2	1.365	2.289	11.4	19.6
3 2	11 11.51	+ 6 13.0	1.497	2.485	2.0	20.6	3 2	11 11.16	-10 27.2	1.325	2.287	7.8	19.4
3 12	11 1.50	+ 6 53.8	1.520	2.508	3.1	20.7	3 12	11 1.99	- 9 36.3	1.310	2.286	6.3	19.3
3 22	10 52.42	+ 7 28.3	1.571	2.530	7.7	21.0	3 22	10 53.41	- 8 28.6	1.321	2.285	8.4	19.4
4 1	10 45.26	+ 7 51.8	1.647	2.552	11.9	21.3	4 1	10 46.61	- 7 13.5	1.357	2.284	12.2	19.6
4 11	10 40.61	+ 8 1.8	1.746	2.574	15.3	21.6	4 11	10 42.43	- 6 1.2	1.414	2.283	16.0	19.8
<b>243487</b>	2009 TB <sub>38</sub>		3 6.1 18°24	8°3/13.8 18			<b>162712</b>	2000 UY <sub>85</sub>		3 6.1 116°44	0°2/ 5.9 18		
2 1	11 26.62	-16 17.0	1.511	2.271	19.5								



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>267723</b>	2003 <i>ED</i> <sub>3</sub>		3 6.1 349°57	4.2/ 2.8 18			<b>368797</b>	2005 <i>YR</i> <sub>17</sub>		3 6.1 194°20	0.9/ 7.1 17		
2 1	11 26.14	+11 12.4	1.256	2.126	16.2	19.5	2 1	11 30.47	- 0 0.4	2.420	3.220	11.8	22.3
2 11	11 23.50	+12 18.0	1.187	2.117	12.0	19.2	2 11	11 25.43	+ 0 31.3	2.328	3.218	9.0	22.1
2 21	11 18.09	+13 34.9	1.141	2.109	7.3	18.9	2 21	11 18.71	+ 1 15.8	2.262	3.214	5.7	21.9
3 2	11 10.71	+14 52.8	1.118	2.103	4.2	18.7	3 2	11 10.83	+ 2 10.0	2.225	3.211	2.1	21.6
3 12	11 2.67	+16 0.1	1.120	2.097	6.7	18.9	3 12	11 2.55	+ 3 9.2	2.217	3.207	2.1	21.6
3 22	10 55.37	+16 47.5	1.146	2.093	11.4	19.1	3 22	10 54.65	+ 4 7.8	2.240	3.202	5.6	21.8
4 1	10 50.09	+17 9.4	1.193	2.091	16.0	19.4	4 1	10 47.87	+ 5 0.9	2.292	3.196	9.0	22.0
4 11	10 47.64	+17 4.9	1.258	2.089	19.9	19.6	4 11	10 42.77	+ 5 44.4	2.368	3.190	12.0	22.2
<b>186902</b>	2004 <i>LV</i> <sub>6</sub>		3 6.1 211°32	5.8/28.1 17			<b>501844</b>	2014 <i>WQ</i> <sub>160</sub>		3 6.1 245°07	4.8/ 1.5 17		
2 1	11 33.77	+23 1.1	2.450	3.286	10.5	21.3	2 1	11 30.68	+14 37.8	1.732	2.584	13.4	21.7
2 11	11 27.95	+24 13.0	2.376	3.278	8.2	21.1	2 11	11 26.22	+15 59.7	1.661	2.581	9.9	21.5
2 21	11 20.25	+25 22.2	2.329	3.270	6.3	21.0	2 21	11 19.45	+17 27.0	1.615	2.577	6.5	21.3
3 2	11 11.28	+26 21.4	2.310	3.260	5.9	20.9	3 2	11 11.09	+18 50.6	1.597	2.573	4.8	21.2
3 12	11 1.88	+27 4.4	2.321	3.250	7.3	21.0	3 12	11 2.21	+20 0.9	1.606	2.570	6.8	21.3
3 22	10 52.96	+27 27.6	2.359	3.240	9.7	21.1	3 22	10 53.95	+20 51.1	1.641	2.566	10.4	21.5
4 1	10 45.33	+27 29.5	2.422	3.228	12.1	21.3	4 1	10 47.32	+21 17.5	1.701	2.562	14.0	21.7
4 11	10 39.61	+27 11.6	2.505	3.216	14.3	21.4	4 11	10 43.05	+21 20.3	1.780	2.558	17.0	21.9
<b>65859</b>	Mädler		3 6.1 6°67	0.4/ 5.5 18			<b>341360</b>	2007 <i>TB</i> <sub>71</sub>		3 6.1 95°16	3.7/10.4 17		
2 1	11 24.33	+ 4 36.8	2.536	3.362	10.6	18.6	2 1	11 27.95	- 8 33.8	2.324	3.092	13.2	21.0
2 11	11 20.80	+ 5 15.3	2.457	3.363	7.8	18.4	2 11	11 23.60	- 8 28.5	2.242	3.100	10.6	20.8
2 21	11 15.84	+ 6 2.9	2.403	3.365	4.6	18.2	2 21	11 17.60	- 8 5.4	2.182	3.108	7.6	20.6
3 2	11 9.95	+ 6 55.7	2.378	3.367	1.3	18.0	3 2	11 10.50	- 7 25.9	2.149	3.116	4.8	20.4
3 12	11 3.78	+ 7 48.8	2.382	3.369	2.3	18.1	3 12	11 3.07	- 6 33.5	2.144	3.123	3.7	20.4
3 22	10 57.97	+ 8 37.7	2.415	3.372	5.6	18.3	3 22	10 56.06	- 5 33.3	2.168	3.131	5.7	20.5
4 1	10 53.16	+ 9 18.2	2.476	3.375	8.6	18.5	4 1	10 50.21	- 4 31.3	2.220	3.138	8.6	20.7
4 11	10 49.80	+ 9 47.7	2.560	3.379	11.3	18.7	4 11	10 46.05	- 3 33.0	2.297	3.146	11.4	20.9
<b>363381</b>	2002 <i>TT</i> <sub>384</sub>		3 6.1 183°78	2.8/ 3.2 18			<b>293048</b>	2006 <i>WN</i> <sub>103</sub>		3 6.1 170°96	0.0/ 6.2 17		
2 1	11 32.84	+11 27.0	2.214	3.046	11.6	22.4	2 1	11 27.74	+ 3 13.9	3.001	3.809	9.6	22.3
2 11	11 27.30	+12 24.0	2.136	3.047	8.5	22.2	2 11	11 23.09	+ 3 43.1	2.916	3.812	7.1	22.2
2 21	11 19.87	+13 26.8	2.085	3.047	5.2	21.9	2 21	11 17.14	+ 4 20.5	2.857	3.814	4.3	22.0
3 2	11 11.17	+14 29.2	2.063	3.046	2.8	21.8	3 2	11 10.35	+ 5 3.1	2.828	3.817	1.3	21.7
3 12	11 2.06	+15 24.7	2.071	3.045	4.5	21.9	3 12	11 3.29	+ 5 47.2	2.830	3.818	1.8	21.8
3 22	10 53.45	+16 7.9	2.108	3.043	7.8	22.1	3 22	10 56.56	+ 6 29.0	2.863	3.820	4.8	22.0
4 1	10 46.17	+16 35.7	2.171	3.040	11.0	22.3	4 1	10 50.72	+ 7 5.1	2.924	3.821	7.5	22.2
4 11	10 40.82	+16 46.7	2.257	3.036	13.8	22.5	4 11	10 46.19	+ 7 33.0	3.010	3.822	9.9	22.3
<b>290864</b>	2005 <i>WK</i> <sub>52</sub>		3 6.1 169°02	2.0/ 7.7 18			<b>381301</b>	2007 <i>UQ</i> <sub>53</sub>		3 6.1 26°18	9.1/27.3 18		
2 1	11 33.10	- 1 47.9	1.544	2.359	16.7	21.4	2 1	11 35.22	+29 45.3	1.768	2.612	13.6	19.9
2 11	11 28.19	- 1 31.0	1.466	2.361	12.9	21.2	2 11	11 29.43	+30 44.6	1.725	2.621	11.1	19.8
2 21	11 20.72	- 0 53.9	1.410	2.363	8.4	20.9	2 21	11 21.22	+31 31.9	1.706	2.631	9.4	19.7
3 2	11 11.47	- 0 0.1	1.380	2.364	3.6	20.6	3 2	11 11.55	+31 58.3	1.712	2.642	9.2	19.7
3 12	11 1.61	+ 1 3.7	1.376	2.365	3.0	20.6	3 12	11 1.68	+31 57.8	1.743	2.654	10.6	19.8
3 22	10 52.42	+ 2 9.3	1.400	2.366	7.7	20.8	3 22	10 52.84	+31 29.2	1.798	2.666	12.8	20.0
4 1	10 45.04	+ 3 8.4	1.449	2.366	12.3	21.1	4 1	10 45.98	+30 34.7	1.875	2.679	15.2	20.1
4 11	10 40.26	+ 3 54.8	1.519	2.366	16.2	21.4	4 11	10 41.69	+29 19.1	1.971	2.692	17.4	20.3
<b>104315</b>	2000 <i>FO</i>		3 6.1 256°22	0.7/ 6.7 17			<b>145420</b>	2005 <i>PP</i> <sub>17</sub>		3 6.1 188°40	6.3/26.1 18		
2 1	11 30.81	+ 1 19.2	1.862	2.680	14.1	20.5	2 1	11 30.69	+28 5.2	2.830	3.663	9.4	20.5
2 11	11 26.22	+ 1 44.0	1.770	2.669	10.7	20.2	2 11	11 25.46	+29 16.9	2.771	3.662	7.6	20.4
2 21	11 19.44	+ 2 24.0	1.701	2.658	6.7	20.0	2 21	11 18.65	+30 22.4	2.738	3.661	6.4	20.3
3 2	11 11.09	+ 3 15.6	1.659	2.647	2.3	19.7	3 2	11 10.81	+31 15.5	2.734	3.659	6.4	20.3
3 12	11 2.14	+ 4 12.6	1.645	2.635	2.6	19.7	3 12	11 2.67	+31 51.5	2.758	3.657	7.6	20.4
3 22	10 53.61	+ 5 8.4	1.660	2.623	7.1	19.9	3 22	10 54.99	+32 7.8	2.808	3.655	9.4	20.5
4 1	10 46.52	+ 5 56.6	1.701	2.610	11.3	20.1	4 1	10 48.46	+32 4.0	2.882	3.653	11.2	20.6
4 11	10 41.60	+ 6 32.5	1.764	2.598	14.9	20.3	4 11	10 43.58	+31 41.6	2.976	3.650	12.9	20.7
<b>104925</b>	2000 <i>JJ</i> <sub>22</sub>		3 6.1 335°39	1.1/ 5.3 18			<b>35799</b>	1999 <i>JK</i> <sub>32</sub>		3 6.1 317°87	0.1/ 6.2 18		
2 1	11 30.69	+ 6 9.9	1.527	2.370	15.4	19.6	2 1	11 29.60	+ 1 56.6	1.393	2.232	16.8	19.0
2 11	11 26.45	+ 6 38.2	1.450	2.365	11.4	19.4	2 11	11 25.88	+ 2 34.8	1.315	2.226	12.7	18.7
2 21	11 19.70	+ 7 19.1	1.395	2.360	6.9	19.1	2 21	11 19.48	+ 3 32.8	1.257	2.220	7.8	18.4
3 2	11 11.18	+ 8 6.9	1.366	2.355	2.0	18.8	3 2	11 11.16	+ 4 45.1	1.225	2.213	2.4	18.0
3 12	11 2.05	+ 8 53.9	1.363	2.350	3.7	18.9	3 12	11 2.12	+ 6 2.6	1.218	2.208	3.3	18.1
3 22	10 53.56	+ 9 32.9	1.387	2.346	8.6	19.2	3 22	10 53.73	+ 7 15.2	1.238	2.202	8.7	18.4
4 1	10 46.85	+ 9 58.2	1.436	2.343	13.1	19.4	4 1	10 47.21	+ 8 14.4	1.281	2.197	13.7	18.6
4 11	10 42.69	+10 7.0	1.505	2.340	17.0	19.6	4 11	10 43.41	+ 8 54.6	1.345	2.192	17.9	18.9
<b>73654</b>	1981 <i>ET</i> <sub>6</sub>		3 6.1 337°72	1.8/ 8.2 17			<b>500019</b>	2011 <i>QW</i> <sub>78</sub>		3 6.1 159°98	0.2/ 6.4 17		
2 1	11 26.94	- 1 28.8	2.661	3.458	11.0	18.8	2 1	11 31.17	+ 4 3.7	2.700	3.509	10.5	21.7
2 11	11 22.71	- 1 33.7	2.567	3.451	8.5	18.6	2 11	11 25.73	+ 4 9.0	2.617	3.512	7.8	21.6
2 21	11 17.01	- 1 27.8	2.498	3.444	5.6	18.4	2 21	11 18.78	+ 4 21.7	2.559	3.515	4.8	21.4
3 2	11 10.32	- 1 12.8	2.456	3.437	2.7	18.2	3 2	11 10.85	+ 4 39.4	2.530	3.518	1.5	21.1
3 12	11 3.27	- 0 51.3	2.444	3.431	2.2	18.2	3 12	11 2.62	+ 4 58.6	2.532	3.521	1.9	21.2
3 22	10 56.54	- 0 26.8	2.461	3.425	5.0	18.3	3 22	10 54.79	+ 5 16.2	2.565	3.523	5.2	21.4
4 1	10 50.76	- 0 3.0	2.506	3.419	7.9	18.5	4 1	10 48.01	+ 5 29.0	2.626	3.526	8.2	21.6
4 11	10 46.44	+ 0 16.6	2.576	3.414	10.6	18.7	4 11	10 42.77	+ 5 35.0	2.712	3.528	10.8	21.8
<b>308685</b>	2006 <i>DF</i> <sub>102</sub>		3 6.1 281°95	1.6/ 4.8 16			<b>397859</b>	2008 <i>TE</i> <sub>134</sub>		3 6.1 173°90	1.5/ 7.5 18		
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EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>423265</b>	2004 <i>TY</i> <sub>339</sub>		3 6.1 111°71	0°9/ 7.0 17			<b>53758</b>	2000 <i>ED</i> <sub>76</sub>		3 6.1 177°52	2°8/ 3.7 18		
2 1	11 29.68	+ 0 15.2	2.044	2.855	13.3	21.7	2 1	11 34.23	+ 9 17.6	1.704	2.543	14.3	18.9
2 11	11 25.03	+ 0 46.8	1.969	2.865	10.0	21.5	2 11	11 28.83	+10 21.6	1.631	2.545	10.5	18.7
2 21	11 18.52	+ 1 32.7	1.919	2.874	6.3	21.3	2 21	11 21.04	+11 35.7	1.582	2.546	6.3	18.4
3 2	11 10.79	+ 2 29.0	1.896	2.882	2.3	21.0	3 2	11 11.60	+12 51.9	1.561	2.547	2.9	18.2
3 12	11 2.71	+ 3 29.9	1.902	2.891	2.3	21.1	3 12	11 1.64	+14 1.3	1.569	2.547	4.9	18.3
3 22	10 55.17	+ 4 29.2	1.936	2.899	6.2	21.3	3 22	10 52.35	+14 56.4	1.604	2.547	9.1	18.6
4 1	10 48.96	+ 5 21.1	1.998	2.907	9.9	21.6	4 1	10 44.78	+15 32.5	1.664	2.546	13.1	18.8
4 11	10 44.67	+ 6 1.7	2.084	2.915	13.0	21.8	4 11	10 39.66	+15 48.1	1.745	2.544	16.5	19.0
<b>101684</b>	1999 <i>CZ</i> <sub>111</sub>		3 6.1 12°01	7°4/11.9 18			<b>387592</b>	2001 <i>WV</i> <sub>21</sub>		3 6.1 105°44	5°9/27.2 18		
2 1	11 30.45	-12 18.4	1.526	2.300	18.7	18.4	2 1	11 31.06	+25 16.3	2.622	3.460	9.9	21.1
2 11	11 26.35	-13 6.7	1.449	2.302	15.6	18.2	2 11	11 25.70	+26 33.3	2.580	3.479	7.8	21.0
2 21	11 19.69	-13 29.1	1.391	2.304	12.1	18.0	2 21	11 18.76	+27 44.5	2.566	3.499	6.2	20.9
3 2	11 11.21	-13 23.6	1.355	2.307	8.9	17.8	3 2	11 10.85	+28 43.5	2.579	3.518	6.0	21.0
3 12	11 2.07	-12 52.0	1.344	2.311	7.4	17.7	3 12	11 2.76	+29 25.5	2.622	3.537	7.3	21.1
3 22	10 53.54	-12 0.0	1.357	2.315	9.0	17.8	3 22	10 55.24	+29 47.8	2.691	3.555	9.2	21.2
4 1	10 46.81	-10 56.4	1.395	2.319	12.2	18.0	4 1	10 48.97	+29 50.1	2.784	3.573	11.2	21.4
4 11	10 42.67	- 9 51.2	1.455	2.324	15.6	18.2	4 11	10 44.40	+29 34.2	2.898	3.591	12.9	21.5
<b>26665</b>	Sidjena		3 6.1 126°01	0°4/ 5.8 18			<b>307940</b>	2004 <i>EX</i> <sub>85</sub>		3 6.1 7°08	5°0/ 3.1 18		
2 1	11 32.94	+ 3 24.6	1.807	2.630	14.3	19.7	2 1	11 31.33	+14 38.1	1.144	2.016	17.3	19.7
2 11	11 27.61	+ 4 9.5	1.739	2.643	10.6	19.5	2 11	11 27.49	+15 11.8	1.087	2.016	12.9	19.5
2 21	11 20.15	+ 5 7.9	1.696	2.656	6.4	19.3	2 21	11 20.53	+15 49.3	1.052	2.019	8.2	19.2
3 2	11 11.28	+ 6 14.3	1.680	2.668	1.8	19.0	3 2	11 11.47	+16 20.9	1.039	2.022	5.0	19.0
3 12	11 2.06	+ 7 21.0	1.693	2.680	2.9	19.1	3 12	11 1.88	+16 37.2	1.051	2.027	7.2	19.2
3 22	10 53.51	+ 8 21.3	1.734	2.692	7.3	19.4	3 22	10 53.36	+16 32.4	1.085	2.033	11.8	19.4
4 1	10 46.58	+ 9 9.3	1.802	2.702	11.3	19.6	4 1	10 47.24	+16 4.9	1.141	2.041	16.3	19.7
4 11	10 41.87	+ 9 41.8	1.892	2.713	14.6	19.9	4 11	10 44.26	+15 16.4	1.215	2.050	20.2	20.0
<b>422524</b>	2014 <i>TZ</i> <sub>10</sub>		3 6.1 272°20	1°9/ 7.5 16			<b>496897</b>	2001 <i>BZ</i> <sub>15</sub>		3 6.1 0°10	20°0/12.7 18		
2 1	11 33.76	- 0 20.2	1.634	2.449	15.9	21.5	2 1	11 20.39	+21 19.8	0.486	1.413	23.2	19.4
2 11	11 28.85	- 0 21.5	1.535	2.430	12.3	21.2	2 11	11 22.12	+30 27.5	0.466	1.412	20.0	19.2
2 21	11 21.30	- 0 6.0	1.457	2.410	8.1	20.9	2 21	11 18.81	+39 18.6	0.472	1.412	21.7	19.3
3 2	11 11.74	+ 0 24.2	1.406	2.390	3.5	20.6	3 2	11 11.25	+46 32.4	0.498	1.411	26.6	19.5
3 12	11 1.27	+ 1 4.1	1.381	2.370	3.1	20.5	3 12	11 2.03	+51 28.7	0.541	1.412	31.8	19.9
3 22	10 51.18	+ 1 47.3	1.384	2.349	7.8	20.7	3 22	10 54.39	+54 12.2	0.594	1.412	36.2	20.2
4 1	10 42.72	+ 2 26.7	1.412	2.328	12.6	20.9	4 1	10 51.10	+55 7.4	0.652	1.413	39.4	20.5
4 11	10 36.85	+ 2 56.3	1.462	2.307	16.9	21.1	4 11	10 53.30	+54 42.5	0.711	1.414	41.8	20.7
<b>322781</b>	2001 <i>OD</i> <sub>17</sub>		3 6.1 164°74	1°0/ 5.0 18			<b>132255</b>	2002 <i>EC</i> <sub>105</sub>		3 6.1 31°23	4°9/ 3.1 18		
2 1	11 31.62	+ 5 52.0	2.346	3.165	11.5	21.9	2 1	11 33.50	+13 40.9	1.089	1.959	18.2	19.1
2 11	11 26.27	+ 6 39.9	2.268	3.172	8.5	21.7	2 11	11 29.05	+14 26.7	1.043	1.972	13.4	18.8
2 21	11 19.20	+ 7 36.9	2.216	3.177	5.0	21.5	2 21	11 21.40	+15 17.5	1.019	1.985	8.3	18.6
3 2	11 11.00	+ 8 38.3	2.194	3.182	1.5	21.2	3 2	11 11.71	+16 2.6	1.017	2.000	5.0	18.5
3 12	11 2.45	+ 9 38.3	2.201	3.186	2.8	21.3	3 12	11 1.66	+16 31.7	1.039	2.016	7.2	18.6
3 22	10 54.38	+10 31.6	2.239	3.190	6.4	21.6	3 22	10 52.88	+16 38.7	1.085	2.032	11.9	18.9
4 1	10 47.52	+11 13.8	2.305	3.193	9.7	21.8	4 1	10 46.67	+16 22.0	1.151	2.050	16.4	19.2
4 11	10 42.43	+11 42.7	2.394	3.195	12.5	22.0	4 11	10 43.68	+15 43.4	1.236	2.068	20.1	19.5
<b>91121</b>	1998 <i>HS</i> <sub>105</sub>		3 6.1 215°26	5°7/28.7 18			<b>229602</b>	2006 <i>CO</i>		3 6.1 64°93	1°5/ 7.7 18		
2 1	11 32.86	+21 43.9	2.256	3.097	11.1	19.2	2 1	11 28.31	- 2 36.1	1.790	2.601	14.9	20.3
2 11	11 27.40	+22 52.5	2.184	3.091	8.6	19.0	2 11	11 24.21	- 1 52.2	1.723	2.616	11.4	20.1
2 21	11 19.98	+23 59.0	2.139	3.085	6.4	18.9	2 21	11 18.11	- 0 49.3	1.680	2.632	7.3	19.9
3 2	11 11.25	+24 56.0	2.121	3.078	5.8	18.8	3 2	11 10.71	+ 0 28.1	1.663	2.647	3.1	19.6
3 12	11 2.09	+25 37.0	2.132	3.071	7.3	18.9	3 12	11 2.99	+ 1 52.6	1.674	2.663	2.5	19.6
3 22	10 53.46	+25 57.8	2.171	3.063	9.9	19.1	3 22	10 55.90	+ 3 15.9	1.713	2.679	6.6	19.9
4 1	10 46.20	+25 57.3	2.233	3.055	12.5	19.2	4 1	10 50.30	+ 4 30.6	1.779	2.695	10.5	20.2
4 11	10 40.95	+25 36.6	2.317	3.046	14.9	19.4	4 11	10 46.77	+ 5 31.4	1.868	2.710	13.8	20.4
<b>430658</b>	2003 <i>SO</i> <sub>353</sub>		3 6.1 116°06	0°8/ 6.9 17			<b>386131</b>	2007 <i>TJ</i> <sub>21</sub>		3 6.1 145°44	0°1/ 6.3 17		
2 1	11 34.17	+ 2 23.8	2.260	3.066	12.4	21.6	2 1	11 29.15	+ 2 55.5	2.663	3.471	10.6	22.5
2 11	11 28.13	+ 2 22.0	2.186	3.078	9.3	21.5	2 11	11 24.26	+ 3 26.7	2.584	3.480	7.9	22.3
2 21	11 20.30	+ 2 29.9	2.137	3.091	5.8	21.3	2 21	11 17.92	+ 4 7.2	2.532	3.489	4.8	22.1
3 2	11 11.31	+ 2 45.0	2.117	3.103	2.1	21.0	3 2	11 10.64	+ 4 53.6	2.509	3.497	1.5	21.9
3 12	11 2.03	+ 3 3.5	2.127	3.115	2.2	21.1	3 12	11 3.09	+ 5 41.6	2.517	3.505	2.0	22.0
3 22	10 53.31	+ 3 21.5	2.166	3.127	5.8	21.3	3 22	10 55.95	+ 6 26.9	2.554	3.512	5.2	22.2
4 1	10 45.92	+ 3 35.5	2.234	3.139	9.2	21.5	4 1	10 49.83	+ 7 5.6	2.620	3.519	8.2	22.4
4 11	10 40.41	+ 3 42.8	2.326	3.150	12.1	21.8	4 11	10 45.22	+ 7 34.9	2.711	3.526	10.8	22.6
<b>239547</b>	2008 <i>SZ</i> <sub>101</sub>		3 6.1 324°84	0°6/ 5.5 17			<b>30913</b>	1993 <i>FO</i> <sub>77</sub>		3 6.1 235°30	4°4/12.1 18		
2 1	11 29.93	+ 5 26.8	1.921	2.752	13.2	20.8	2 1	11 25.90	-13 42.6	2.528	3.265	13.1	19.7
2 11	11 25.42	+ 5 53.8	1.841	2.749	9.8	20.6	2 11	11 22.10	-13 12.8	2.427	3.260	10.8	19.6
2 21	11 18.87	+ 6 31.6	1.784	2.746	5.9	20.3	2 21	11 16.74	-12 21.5	2.348	3.255	8.2	19.4
3 2	11 10.94	+ 7 15.4	1.754	2.743	1.7	20.0	3 2	11 10.32	-11 9.7	2.296	3.249	5.7	19.2
3 12	11 2.54	+ 7 59.3	1.753	2.740	2.9	20.1	3 12	11 3.52	- 9 41.0	2.272	3.244	4.4	19.1
3 22	10 54.66	+ 8 37.7	1.780	2.737	7.1	20.4	3 22	10 57.05	- 8 1.4	2.278	3.238	5.6	19.2
4 1	10 48.19	+ 9 5.8	1.832	2.735	11.0	20.6	4 1	10 51.59	- 6 17.9	2.313	3.232	8.2	19.3
4 11	10 43.77	+ 9 20.6	1.908	2.732	14.3	20.8	4 11	10 47.68	- 4 37.7	2.374	3.226	10.9	19.5
<b>264578</b>	2001 <i>TX</i> <sub>120</sub>		3 6.1 96°71	0°5/ 6.6 18			<b>301029</b>	2008 <i>SW</i> <sub>205</sub>		3 6.1 279°96	6°1/ 1.4 17		

EPHEMERIDES

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3 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>501144</b>	2013 <i>TT</i> <sub>55</sub>		3 6.1 239°04	1°6/ 7.7 17			<b>178289</b>	1989 <i>TH</i> <sub>3</sub>		3 6.2 210°61	1°1/ 5.1 18		
2 1	11 31.63	- 1 15.0	2.251	3.048	12.7	22.1	2 1	11 33.00	+ 5 34.6	2.024	2.847	13.0	21.4
2 11	11 26.55	- 1 0.7	2.148	3.033	9.8	21.9	2 11	11 27.70	+ 6 24.3	1.935	2.840	9.6	21.1
2 21	11 19.56	- 0 32.3	2.069	3.017	6.4	21.7	2 21	11 20.31	+ 7 25.8	1.870	2.832	5.8	20.9
3 2	11 11.20	+ 0 7.9	2.018	3.001	2.8	21.4	3 2	11 11.45	+ 8 33.7	1.835	2.823	1.7	20.6
3 12	11 2.27	+ 0 55.7	1.996	2.985	2.4	21.3	3 12	11 2.04	+ 9 41.0	1.829	2.814	3.3	20.7
3 22	10 53.65	+ 1 45.7	2.004	2.968	6.0	21.5	3 22	10 53.07	+10 41.0	1.852	2.804	7.4	20.9
4 1	10 46.20	+ 2 32.7	2.041	2.950	9.7	21.7	4 1	10 45.48	+11 28.4	1.902	2.793	11.3	21.1
4 11	10 40.60	+ 3 11.9	2.101	2.931	13.0	21.9	4 11	10 39.97	+11 59.9	1.975	2.781	14.6	21.3
<b>29169</b>	1990 <i>OC</i> <sub>1</sub>		3 6.1 244°63	4°8/11.6 18			<b>321874</b>	2010 <i>RC</i> <sub>179</sub>		3 6.2 212°74	0°0/ 5.9 17		
2 1	11 28.02	-11 59.4	2.435	3.181	13.3	18.4	2 1	11 32.69	+ 3 1.0	2.058	2.873	13.1	22.2
2 11	11 23.74	-12 5.8	2.336	3.174	11.0	18.2	2 11	11 27.44	+ 3 34.8	1.967	2.866	9.8	22.0
2 21	11 17.78	-11 53.5	2.259	3.167	8.4	18.1	2 21	11 20.13	+ 4 21.5	1.900	2.858	6.0	21.7
3 2	11 10.65	-11 22.6	2.207	3.160	5.9	17.9	3 2	11 11.40	+ 5 16.8	1.861	2.850	1.8	21.4
3 12	11 3.06	-10 35.3	2.184	3.153	4.8	17.8	3 12	11 2.12	+ 6 14.8	1.852	2.841	2.6	21.5
3 22	10 55.80	- 9 36.1	2.189	3.146	6.1	17.9	3 22	10 53.27	+ 7 9.2	1.873	2.831	6.8	21.7
4 1	10 49.61	+ 1 45.7	2.222	3.138	8.7	18.0	4 1	10 45.76	+ 7 54.7	1.920	2.821	10.7	21.9
4 11	10 45.07	- 7 25.5	2.280	3.131	11.4	18.2	4 11	10 40.28	+ 8 27.3	1.991	2.809	14.0	22.1
<b>26365</b>	1999 <i>AK</i> <sub>21</sub>		3 6.1 162°28	4°1/ 1.1 18			<b>415760</b>	2000 <i>RD</i> <sub>103</sub>		3 6.2 181°50	2°7/ 8.9 17		
2 1	11 31.21	+14 46.5	2.254	3.094	11.2	18.5	2 1	11 33.35	- 5 34.0	2.240	3.015	13.4	22.1
2 11	11 26.10	+16 17.8	2.187	3.100	8.2	18.3	2 11	11 27.73	- 5 16.7	2.149	3.017	10.6	21.9
2 21	11 19.18	+17 52.8	2.148	3.106	5.4	18.2	2 21	11 20.22	- 4 42.1	2.082	3.018	7.3	21.7
3 2	11 11.04	+19 23.9	2.138	3.111	4.1	18.1	3 2	11 11.40	- 3 52.3	2.042	3.018	3.9	21.5
3 12	11 2.55	+20 43.3	2.158	3.116	5.8	18.2	3 12	11 2.13	- 2 51.4	2.032	3.017	3.0	21.4
3 22	10 54.55	+21 45.5	2.207	3.120	8.7	18.4	3 22	10 53.28	- 1 45.4	2.052	3.015	5.9	21.6
4 1	10 47.85	+22 27.4	2.281	3.123	11.6	18.6	4 1	10 45.71	- 0 40.6	2.101	3.012	9.3	21.8
4 11	10 43.02	+22 48.7	2.377	3.126	14.0	18.8	4 11	10 40.04	+ 0 17.5	2.175	3.008	12.5	22.0
<b>64814</b>	2001 <i>XM</i> <sub>227</sub>		3 6.1 188°63	1°4/ 4.9 18			<b>73390</b>	2002 <i>LE</i> <sub>14</sub>		3 6.2 286°50	4°5/10.4 18		
2 1	11 31.32	+ 6 58.7	1.905	2.738	13.2	20.2	2 1	11 30.17	- 8 29.6	2.010	2.784	14.8	19.3
2 11	11 26.46	+ 7 37.6	1.828	2.738	9.8	19.9	2 11	11 25.63	- 8 45.8	1.919	2.780	12.0	19.1
2 21	11 19.52	+ 8 26.5	1.774	2.738	5.8	19.7	2 21	11 19.07	- 8 43.0	1.851	2.776	8.8	18.9
3 2	11 11.17	+ 9 19.9	1.748	2.737	1.9	19.4	3 2	11 11.08	- 8 21.3	1.807	2.773	5.7	18.7
3 12	11 2.37	+10 11.0	1.751	2.736	3.5	19.5	3 12	11 2.56	- 7 43.5	1.792	2.769	4.6	18.6
3 22	10 54.12	+10 54.0	1.783	2.735	7.6	19.8	3 22	10 54.47	- 6 54.6	1.804	2.766	6.7	18.7
4 1	10 47.33	+11 24.1	1.840	2.734	11.4	20.0	4 1	10 47.71	- 6 1.2	1.842	2.762	9.9	18.9
4 11	10 42.67	+11 39.0	1.919	2.733	14.7	20.2	4 11	10 42.96	- 5 9.7	1.905	2.759	13.2	19.1
<b>55947</b>	1998 <i>HQ</i> <sub>42</sub>		3 6.1 229°25	8°8/23.2 18			<b>229185</b>	2004 <i>TH</i> <sub>210</sub>		3 6.2 145°55	0°3/ 6.5 18		
2 1	11 33.16	+35 9.2	2.455	3.278	11.0	18.6	2 1	11 31.80	+ 2 53.2	2.210	3.023	12.4	20.8
2 11	11 27.64	+36 29.5	2.407	3.276	9.6	18.5	2 11	11 26.51	+ 3 13.3	2.133	3.030	9.3	20.6
2 21	11 20.13	+37 37.8	2.383	3.273	8.8	18.5	2 21	11 19.42	+ 3 44.3	2.080	3.037	5.7	20.4
3 2	11 11.33	+38 26.6	2.385	3.271	9.1	18.5	3 2	11 11.15	+ 4 22.4	2.055	3.043	1.8	20.1
3 12	11 2.21	+38 50.7	2.412	3.269	10.3	18.5	3 12	11 2.52	+ 5 2.9	2.060	3.049	2.2	20.1
3 22	10 53.74	+38 48.3	2.464	3.266	12.0	18.7	3 22	10 54.40	+ 5 40.8	2.094	3.054	6.1	20.4
4 1	10 46.76	+38 20.4	2.536	3.264	13.7	18.8	4 1	10 47.57	+ 6 12.0	2.156	3.059	9.6	20.6
4 11	10 41.86	+37 30.5	2.625	3.261	15.2	18.9	4 11	10 42.59	+ 6 33.2	2.242	3.064	12.6	20.8
<b>240768</b>	2005 <i>OJ</i> <sub>1</sub>		3 6.1 209°06	4°1/29.1 17			<b>522690</b>	2016 <i>KN</i> <sub>5</sub>		3 6.2 295°46	0°2/ 6.4 16		
2 1	11 30.20	+21 6.7	3.230	4.063	8.3	21.1	2 1	11 26.09	+ 0 29.7	2.029	2.848	13.1	21.5
2 11	11 24.93	+21 58.1	3.152	4.056	6.4	20.9	2 11	11 22.65	+ 1 30.3	1.928	2.829	9.9	21.2
2 21	11 18.30	+22 47.8	3.102	4.048	4.6	20.8	2 21	11 17.30	+ 2 48.7	1.852	2.810	6.1	21.0
3 2	11 10.78	+23 31.1	3.081	4.039	4.1	20.7	3 2	11 10.57	+ 4 20.4	1.803	2.791	1.9	20.6
3 12	11 2.97	+24 4.0	3.090	4.030	5.2	20.8	3 12	11 3.27	+ 5 58.1	1.783	2.772	2.5	20.6
3 22	10 55.50	+24 23.6	3.129	4.021	7.2	20.9	3 22	10 56.28	+ 7 33.7	1.792	2.753	6.8	20.9
4 1	10 48.94	+24 28.6	3.194	4.011	9.2	21.1	4 1	10 50.49	+ 8 59.3	1.828	2.734	10.8	21.1
4 11	10 43.75	+24 19.3	3.281	4.001	11.0	21.2	4 11	10 46.58	+10 9.2	1.887	2.715	14.3	21.3
<b>302166</b>	2001 <i>TM</i> <sub>3</sub>		3 6.1 198°78	1°1/ 7.2 17			<b>76614</b>	2000 <i>GY</i> <sub>167</sub>		3 6.2 207°32	4°6/ 1.1 18		
2 1	11 33.31	- 0 42.5	1.906	2.712	14.3	22.6	2 1	11 32.21	+19 15.5	2.409	3.249	10.6	19.7
2 11	11 28.02	- 0 8.5	1.817	2.708	11.0	22.3	2 11	11 26.78	+20 5.0	2.336	3.246	8.0	19.6
2 21	11 20.54	+ 0 42.7	1.751	2.704	7.0	22.1	2 21	11 19.57	+20 53.4	2.290	3.242	5.6	19.4
3 2	11 11.52	+ 1 47.3	1.713	2.699	2.7	21.8	3 2	11 11.20	+21 34.9	2.271	3.239	4.6	19.3
3 12	11 1.92	+ 2 58.9	1.704	2.694	2.5	21.8	3 12	11 2.47	+22 3.9	2.282	3.235	6.0	19.4
3 22	10 52.80	+ 4 10.1	1.724	2.687	6.9	22.0	3 22	10 54.25	+22 17.1	2.321	3.231	8.5	19.6
4 1	10 45.15	+ 5 13.9	1.772	2.679	11.0	22.3	4 1	10 47.29	+22 12.9	2.386	3.226	11.2	19.7
4 11	10 39.69	+ 6 5.1	1.842	2.671	14.6	22.5	4 11	10 42.15	+21 52.1	2.472	3.222	13.5	19.9
<b>270641</b>	2002 <i>PP</i> <sub>95</sub>		3 6.2 273°34	2°2/ 4.4 18			<b>377878</b>	2006 <i>DQ</i> <sub>19</sub>		3 6.2 17°39	0°8/ 6.8 17		
2 1	11 32.16	+ 6 27.8	1.382	2.229	16.5	20.3	2 1	11 34.67	+ 3 14.7	1.889	2.706	14.0	20.3
2 11	11 28.08	+ 7 29.6	1.292	2.210	12.3	20.0	2 11	11 28.97	+ 3 2.5	1.808	2.706	10.6	20.1
2 21	11 21.06	+ 8 49.4	1.224	2.190	7.4	19.7	2 21	11 21.07	+ 3 0.7	1.750	2.707	6.6	19.9
3 2	11 11.77	+10 19.6	1.181	2.170	2.6	19.3	3 2	11 11.68	+ 3 6.6	1.720	2.708	2.3	19.6
3 12	11 1.48	+11 48.7	1.165	2.149	5.0	19.4	3 12	11 1.80	+ 3 16.4	1.719	2.708	2.5	19.6
3 22	10 51.66	+13 5.6	1.175	2.129	10.5	19.7	3 22	10 52.51	+ 3 25.7	1.747	2.709	6.8	19.9
4 1	10 43.76	+14 1.5	1.208	2.108	15.7	19.9	4 1	10 44.76	+ 3 30.7	1.801	2.710	10.8	20.1
4 11	10 38.80	+14 32.4	1.260	2.086	20.1	20.1	4 11	10 39.24	+ 3 28.4	1.878	2.712	14.2	20.3
<b>186094</b>	2001 <i>SG</i> <sub>336</sub>		3 6.2 155°68	0°8/ 6.9 18			<b>221902</b>	2008 <i>KL</i> <sub>38</sub>		3 6.2 157°82	0°4/ 5.8 16		

EPHEMERIDES

3 6.2

3 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>160701</b>	2000 <i>OD</i> <sub>50</sub>		3 6.2 159°91	0°8/ 6.9 18			<b>264690</b>	2002 <i>AC</i> <sub>35</sub>		3 6.2 86°73	3°3/ 9.1 18		
2 1	11 35.04	+ 1 7.8	2.011	2.817	13.7	20.8	2 1	11 36.19	- 4 48.0	1.953	2.735	14.9	20.5
2 11	11 29.08	+ 1 28.4	1.933	2.825	10.3	20.5	2 11	11 29.81	- 5 2.7	1.892	2.763	11.6	20.3
2 21	11 21.07	+ 2 2.4	1.878	2.832	6.5	20.3	2 21	11 21.42	- 5 0.7	1.854	2.790	8.0	20.1
3 2	11 11.67	+ 2 46.1	1.852	2.838	2.3	20.1	3 2	11 11.77	- 4 43.4	1.843	2.817	4.5	20.0
3 12	11 1.86	+ 3 34.1	1.855	2.844	2.4	20.1	3 12	11 1.88	- 4 14.9	1.861	2.844	3.5	20.0
3 22	10 52.62	+ 4 20.7	1.888	2.849	6.5	20.3	3 22	10 52.74	- 3 40.0	1.907	2.870	6.3	20.2
4 1	10 44.85	+ 5 0.6	1.948	2.852	10.3	20.6	4 1	10 45.20	- 3 4.5	1.982	2.895	9.7	20.4
4 11	10 39.20	+ 5 29.9	2.032	2.855	13.6	20.8	4 11	10 39.82	- 2 33.4	2.080	2.920	12.7	20.7
<b>169522</b>	2002 <i>EF</i> <sub>40</sub>		3 6.2 341°29	1°3/ 7.1 18			<b>60248</b>	1999 <i>VW</i> <sub>197</sub>		3 6.2 123°54	1°7/ 7.9 18		
2 1	11 26.26	+ 0 20.5	1.143	1.995	18.9	19.3	2 1	11 31.22	- 3 42.7	1.937	2.733	14.5	19.6
2 11	11 23.92	+ 0 38.0	1.066	1.982	14.5	18.9	2 11	11 26.28	- 2 52.1	1.865	2.749	11.1	19.4
2 21	11 18.60	+ 1 19.3	1.009	1.971	9.2	18.6	2 21	11 19.37	- 1 42.2	1.817	2.765	7.2	19.2
3 2	11 11.06	+ 2 20.2	0.974	1.961	3.4	18.2	3 2	11 11.19	- 0 17.5	1.796	2.780	3.2	19.0
3 12	11 2.65	+ 3 31.8	0.962	1.952	3.4	18.2	3 12	11 2.66	+ 1 14.9	1.805	2.794	2.5	19.0
3 22	10 54.91	+ 4 42.9	0.974	1.945	9.3	18.5	3 22	10 54.74	+ 2 46.8	1.844	2.808	6.3	19.3
4 1	10 49.28	+ 5 42.8	1.008	1.939	14.9	18.8	4 1	10 48.28	+ 4 10.6	1.909	2.821	10.1	19.5
4 11	10 46.72	+ 6 23.8	1.060	1.934	19.7	19.0	4 11	10 43.86	+ 5 20.8	2.000	2.834	13.4	19.7
<b>192209</b>	2007 <i>JL</i> <sub>38</sub>		3 6.2 142°90	0°9/ 7.2 17			<b>210475</b>	1995 <i>SC</i> <sub>64</sub>		3 6.2 41°33	0°0/ 6.3 18		
2 1	11 29.72	- 0 15.7	2.222	3.027	12.6	21.3	2 1	11 28.57	+ 3 8.4	1.975	2.801	13.1	20.9
2 11	11 24.99	+ 0 17.0	2.143	3.034	9.5	21.1	2 11	11 24.28	+ 3 34.7	1.908	2.813	9.8	20.7
2 21	11 18.52	+ 1 3.5	2.088	3.041	6.0	20.9	2 21	11 18.14	+ 4 12.6	1.865	2.825	5.9	20.5
3 2	11 10.91	+ 2 0.2	2.061	3.047	2.3	20.6	3 2	11 10.82	+ 4 58.1	1.849	2.838	1.8	20.2
3 12	11 2.94	+ 3 1.8	2.064	3.054	2.1	20.6	3 12	11 3.19	+ 5 45.4	1.862	2.851	2.4	20.3
3 22	10 55.45	+ 4 2.4	2.097	3.060	5.8	20.9	3 22	10 56.13	+ 6 28.9	1.903	2.864	6.4	20.6
4 1	10 49.19	+ 4 56.6	2.157	3.065	9.3	21.1	4 1	10 50.44	+ 7 3.8	1.970	2.878	10.1	20.8
4 11	10 44.70	+ 5 40.4	2.242	3.070	12.3	21.3	4 11	10 46.67	+ 7 27.1	2.060	2.892	13.1	21.0
<b>465156</b>	2007 <i>DU</i> <sub>11</sub>		3 6.2 50°34	1°8/ 4.6 16			<b>296029</b>	2008 <i>YS</i> <sub>160</sub>		3 6.2 46°91	0°4/ 5.8 17		
2 1	11 30.90	+ 7 0.5	1.484	2.331	15.6	21.5	2 1	11 30.98	+ 5 51.6	2.183	3.007	12.1	20.5
2 11	11 26.45	+ 7 51.6	1.430	2.348	11.4	21.3	2 11	11 25.94	+ 6 3.0	2.107	3.012	9.0	20.3
2 21	11 19.60	+ 8 54.4	1.399	2.365	6.7	21.1	2 21	11 19.12	+ 6 22.4	2.056	3.017	5.4	20.1
3 2	11 11.23	+ 10 1.1	1.394	2.382	2.3	20.9	3 2	11 11.12	+ 6 46.4	2.033	3.022	1.6	19.8
3 12	11 2.54	+ 11 2.9	1.416	2.400	4.2	21.0	3 12	11 2.78	+ 7 10.4	2.040	3.028	2.5	19.9
3 22	10 54.72	+ 11 52.3	1.464	2.419	8.7	21.3	3 22	10 54.95	+ 7 30.3	2.075	3.033	6.3	20.2
4 1	10 48.76	+ 12 24.5	1.537	2.437	12.9	21.6	4 1	10 48.42	+ 7 42.6	2.137	3.039	9.7	20.4
4 11	10 45.28	+ 12 37.6	1.630	2.456	16.3	21.9	4 11	10 43.73	+ 7 45.1	2.223	3.044	12.7	20.6
<b>28211</b>	1998 <i>XJ</i> <sub>64</sub>		3 6.2 176°86	3°5/ 2.8 18			<b>508573</b>	2017 <i>NL</i> <sub>4</sub>		3 6.2 226°85	3°2/ 2.4 17		
2 1	11 35.90	+ 12 35.1	1.957	2.792	12.9	19.2	2 1	11 29.74	+ 11 30.9	2.215	3.053	11.4	21.7
2 11	11 29.84	+ 13 39.0	1.884	2.795	9.5	19.0	2 11	11 25.19	+ 12 53.0	2.130	3.043	8.4	21.4
2 21	11 21.58	+ 14 48.5	1.837	2.798	5.9	18.8	2 21	11 18.77	+ 14 22.7	2.071	3.033	5.2	21.2
3 2	11 11.85	+ 15 56.1	1.818	2.799	3.5	18.7	3 2	11 11.05	+ 15 53.1	2.041	3.022	3.2	21.1
3 12	11 1.65	+ 16 54.1	1.829	2.800	5.3	18.8	3 12	11 2.83	+ 17 16.4	2.041	3.011	5.0	21.2
3 22	10 52.08	+ 17 36.6	1.868	2.799	8.9	19.0	3 22	10 54.99	+ 18 25.8	2.070	2.999	8.3	21.3
4 1	10 44.08	+ 18 0.4	1.933	2.798	12.4	19.2	4 1	10 48.36	+ 19 17.1	2.126	2.987	11.5	21.5
4 11	10 38.33	+ 18 5.0	2.020	2.796	15.3	19.4	4 11	10 43.59	+ 19 48.4	2.203	2.974	14.4	21.7
<b>235253</b>	2003 <i>SU</i> <sub>321</sub>		3 6.2 159°67	0°5/ 6.8 18			<b>285940</b>	2001 <i>QE</i> <sub>330</sub>		3 6.2 181°52	5°1/ 12.2 18		
2 1	11 28.05	+ 0 19.4	2.257	3.067	12.2	20.8	2 1	11 29.03	- 14 11.5	2.154	2.894	15.0	21.2
2 11	11 23.77	+ 1 6.0	2.175	3.070	9.2	20.6	2 11	11 24.68	- 13 48.0	2.061	2.895	12.4	21.0
2 21	11 17.80	+ 2 6.6	2.117	3.072	5.7	20.4	2 21	11 18.46	- 12 59.7	1.989	2.895	9.5	20.8
3 2	11 10.70	+ 3 17.2	2.088	3.075	2.0	20.2	3 2	11 10.95	- 11 47.3	1.942	2.895	6.6	20.6
3 12	11 3.24	+ 4 31.8	2.088	3.077	2.1	20.2	3 12	11 2.99	- 10 14.9	1.923	2.895	5.1	20.6
3 22	10 56.21	+ 5 44.1	2.118	3.079	5.9	20.4	3 22	10 55.45	- 8 29.5	1.934	2.894	6.5	20.6
4 1	10 50.34	+ 6 48.4	2.176	3.081	9.4	20.7	4 1	10 49.18	- 6 39.8	1.973	2.892	9.4	20.8
4 11	10 46.19	+ 7 40.6	2.258	3.083	12.4	20.9	4 11	10 44.79	- 4 54.4	2.037	2.890	12.4	21.0
<b>184085</b>	2004 <i>GS</i> <sub>39</sub>		3 6.2 181°57	10°1/ 23.9 18			<b>230127</b>	2001 <i>NK</i> <sub>7</sub>		3 6.2 200°66	3°5/ 1.9 17		
2 1	11 46.69	+ 40 32.1	2.452	3.238	12.1	20.3	2 1	11 28.94	+ 14 14.6	2.375	3.216	10.6	20.7
2 11	11 37.62	+ 41 36.5	2.404	3.240	10.8	20.2	2 11	11 24.41	+ 15 21.2	2.300	3.214	7.8	20.5
2 21	11 26.13	+ 42 23.6	2.381	3.240	10.1	20.2	2 21	11 18.20	+ 16 31.5	2.251	3.212	5.0	20.3
3 2	11 13.14	+ 42 45.5	2.384	3.240	10.3	20.2	3 2	11 10.85	+ 17 39.2	2.232	3.209	3.5	20.2
3 12	10 59.95	+ 42 37.5	2.413	3.239	11.3	20.3	3 12	11 3.14	+ 18 38.0	2.242	3.207	5.1	20.3
3 22	10 47.81	+ 41 59.2	2.466	3.238	12.8	20.4	3 22	10 55.86	+ 19 23.0	2.280	3.204	7.9	20.5
4 1	10 37.73	+ 40 54.0	2.541	3.236	14.4	20.5	4 1	10 49.75	+ 19 51.4	2.345	3.201	10.8	20.7
4 11	10 30.32	+ 39 27.3	2.634	3.233	15.8	20.6	4 11	10 45.34	+ 20 2.3	2.431	3.198	13.3	20.8
<b>269025</b>	2007 <i>ER</i> <sub>222</sub>		3 6.2 340°04	4°0/ 10.2 18			<b>44945</b>	1999 <i>VG</i> <sub>59</sub>		3 6.2 21°78	6°0/ 11.3 18		
2 1	11 27.21	- 8 30.2	1.752	2.540	16.1	20.2	2 1	11 28.24	- 10 50.5	1.410	2.201	19.2	18.9
2 11	11 23.68	- 8 11.0	1.666	2.537	12.9	20.0	2 11	11 24.85	- 10 58.0	1.337	2.205	15.7	18.7
2 21	11 18.00	- 7 27.2	1.600	2.534	9.2	19.8	2 21	11 18.89	- 10 36.0	1.282	2.210	11.7	18.5
3 2	11 10.82	- 6 20.6	1.560	2.532	5.6	19.5	3 2	11 11.12	- 9 44.6	1.250	2.215	7.8	18.3
3 12	11 3.09	- 4 56.7	1.546	2.530	4.1	19.4	3 12	11 2.75	- 8 28.8	1.242	2.220	6.0	18.2
3 22	10 55.86	- 3 23.5	1.560	2.528	6.9	19.6	3 22	10 55.07	- 6 57.9	1.260	2.227	8.3	18.3
4 1	10 50.09	- 1 50.5	1.600	2.526	10.7	19.8	4 1	10 49.24	- 5 23.2	1.302	2.233	12.2	18.5
4 11	10 46.49	- 0 26.3	1.664	2.525	14.4	20.0	4 11	10 46.03	- 3 55.5	1.366	2.241	16.0	18.8
<b>298805</b>	2004 <i>RZ</i> <sub>14</sub>		3 6.2 230°05	0°1/ 6.3 17			<b>473050</b>	2					

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3 6.2

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>208347</b>	2001 <i>QP</i> <sub>333</sub>		3 6.2 74°85	2°9/ 3.8 18			<b>17317</b>	1208 <i>T</i> <sub>-1</sub>		3 6.2 132°73	2°4/ 8.2 18		
2 1	11 39.53	+15 10.6	2.259	3.084	11.7	20.0	2 1	11 32.06	- 3 16.1	1.580	2.390	16.6	18.7
2 11	11 31.95	+15 15.3	2.203	3.108	8.6	19.9	2 11	11 27.42	- 2 55.3	1.505	2.395	12.9	18.4
2 21	11 22.55	+15 19.7	2.174	3.132	5.4	19.7	2 21	11 20.33	- 2 13.2	1.451	2.400	8.5	18.2
3 2	11 12.09	+15 19.5	2.174	3.156	3.0	19.6	3 2	11 11.56	- 1 12.9	1.422	2.404	4.0	17.9
3 12	11 1.53	+15 11.1	2.206	3.180	4.2	19.7	3 12	11 2.25	- 0 1.5	1.420	2.409	3.1	17.9
3 22	10 51.78	+14 52.5	2.267	3.203	7.3	19.9	3 22	10 53.59	+ 1 12.7	1.446	2.413	7.4	18.1
4 1	10 43.61	+14 23.1	2.357	3.227	10.2	20.2	4 1	10 46.68	+ 2 21.0	1.497	2.417	11.8	18.4
4 11	10 37.50	+13 43.7	2.470	3.250	12.7	20.4	4 11	10 42.26	+ 3 16.9	1.571	2.420	15.7	18.7
<b>396614</b>	2001 <i>SR</i> <sub>115</sub>		3 6.2 276°88	3°1/ 8.6 17			<b>53871</b>	2000 <i>FN</i> <sub>31</sub>		3 6.2 111°13	6°3/ 1.2 18		
2 1	11 33.50	- 5 16.1	1.712	2.505	16.2	22.4	2 1	11 38.21	+18 30.9	1.525	2.375	15.0	18.1
2 11	11 28.89	- 4 55.2	1.589	2.469	13.0	22.1	2 11	11 31.91	+19 47.0	1.477	2.391	11.3	17.9
2 21	11 21.57	- 4 9.9	1.488	2.431	9.0	21.8	2 21	11 22.95	+21 2.1	1.452	2.407	7.8	17.8
3 2	11 12.04	- 3 0.9	1.413	2.393	4.7	21.4	3 2	11 12.30	+22 5.7	1.454	2.423	6.3	17.7
3 12	11 1.29	- 1 32.9	1.365	2.353	3.6	21.3	3 12	11 1.34	+22 48.7	1.483	2.438	8.2	17.9
3 22	10 50.57	+ 0 5.6	1.346	2.312	8.0	21.4	3 22	10 51.45	+23 6.4	1.538	2.453	11.7	18.1
4 1	10 41.25	+ 1 44.3	1.353	2.269	13.0	21.6	4 1	10 43.71	+22 58.3	1.615	2.467	15.1	18.3
4 11	10 34.42	+ 3 13.1	1.382	2.226	17.7	21.8	4 11	10 38.77	+22 27.3	1.712	2.480	18.0	18.6
<b>173141</b>	1995 <i>SQ</i> <sub>44</sub>		3 6.2 155°51	0°1/ 6.3 18			<b>206224</b>	2002 <i>VP</i> <sub>74</sub>		3 6.2 111°06	5°4/ 28.9 18		
2 1	11 33.20	+ 2 30.9	2.038	2.851	13.3	21.0	2 1	11 32.03	+21 40.4	2.350	3.191	10.7	20.5
2 11	11 27.72	+ 3 4.3	1.961	2.859	9.9	20.8	2 11	11 26.63	+22 43.7	2.296	3.203	8.2	20.3
2 21	11 20.26	+ 3 50.3	1.909	2.867	6.1	20.6	2 21	11 19.48	+23 43.8	2.269	3.215	6.1	20.2
3 2	11 11.49	+ 4 44.6	1.885	2.873	1.9	20.3	3 2	11 11.24	+24 34.0	2.270	3.227	5.4	20.2
3 12	11 2.32	+ 5 41.2	1.890	2.879	2.4	20.3	3 12	11 2.76	+25 8.9	2.299	3.238	6.8	20.3
3 22	10 53.71	+ 6 34.1	1.925	2.884	6.6	20.6	3 22	10 54.89	+25 25.2	2.356	3.250	9.1	20.4
4 1	10 46.52	+ 7 18.1	1.987	2.889	10.3	20.9	4 1	10 48.36	+25 22.3	2.437	3.261	11.5	20.6
4 11	10 41.35	+ 7 49.7	2.073	2.893	13.5	21.1	4 11	10 43.68	+25 1.4	2.540	3.271	13.6	20.8
<b>101073</b>	1998 <i>RU</i> <sub>18</sub>		3 6.2 113°80	0°9/ 5.4 18			<b>188902</b>	2007 <i>AF</i> <sub>14</sub>		3 6.2 128°36	2°1/ 4.1 18		
2 1	11 34.83	+ 4 16.1	1.578	2.408	15.7	20.0	2 1	11 30.95	+ 7 59.5	1.919	2.755	13.0	21.1
2 11	11 29.29	+ 5 9.5	1.518	2.426	11.6	19.7	2 11	11 26.16	+ 9 1.3	1.851	2.763	9.5	20.9
2 21	11 21.33	+ 6 17.3	1.481	2.443	6.9	19.5	2 21	11 19.36	+10 12.7	1.807	2.771	5.7	20.7
3 2	11 11.81	+ 7 32.5	1.471	2.459	2.0	19.2	3 2	11 11.24	+11 26.9	1.792	2.779	2.3	20.4
3 12	11 1.92	+ 8 46.0	1.489	2.475	3.5	19.4	3 12	11 2.74	+12 36.3	1.806	2.787	4.0	20.6
3 22	10 52.88	+ 9 49.8	1.534	2.491	8.2	19.7	3 22	10 54.85	+13 34.2	1.847	2.794	7.9	20.8
4 1	10 45.71	+10 38.0	1.606	2.505	12.4	20.0	4 1	10 48.41	+14 16.1	1.915	2.801	11.5	21.1
4 11	10 41.07	+11 7.7	1.698	2.519	16.0	20.2	4 11	10 44.05	+14 40.1	2.005	2.807	14.5	21.3
<b>499297</b>	2009 <i>WH</i> <sub>11</sub>		3 6.2 163°53	1°1/ 7.3 17			<b>286014</b>	2001 <i>SE</i> <sub>141</sub>		3 6.2 119°56	0°3/ 5.9 17		
2 1	11 31.95	+ 0 40.3	2.055	2.863	13.3	21.8	2 1	11 29.04	+ 4 9.1	2.665	3.478	10.5	21.5
2 11	11 26.82	+ 0 50.2	1.972	2.866	10.1	21.6	2 11	11 24.20	+ 4 44.9	2.594	3.493	7.7	21.3
2 21	11 19.75	+ 1 13.0	1.914	2.867	6.4	21.4	2 21	11 17.94	+ 5 29.2	2.549	3.508	4.6	21.2
3 2	11 11.35	+ 1 45.9	1.883	2.869	2.5	21.1	3 2	11 10.78	+ 6 18.2	2.534	3.522	1.3	20.9
3 12	11 2.51	+ 2 24.1	1.882	2.871	2.3	21.1	3 12	11 3.39	+ 7 7.5	2.549	3.536	2.1	21.0
3 22	10 54.18	+ 3 2.4	1.909	2.872	6.2	21.4	3 22	10 56.44	+ 7 52.7	2.594	3.550	5.3	21.3
4 1	10 47.20	+ 3 36.0	1.963	2.873	10.0	21.6	4 1	10 50.52	+ 8 30.2	2.668	3.563	8.2	21.5
4 11	10 42.21	+ 4 0.8	2.041	2.874	13.2	21.8	4 11	10 46.09	+ 8 57.6	2.766	3.576	10.8	21.7
<b>415513</b>	2014 <i>PB</i> <sub>63</sub>		3 6.2 260°54	2°1/ 4.4 17			<b>346131</b>	2007 <i>VB</i> <sub>192</sub>		3 6.2 99°86	4°4/ 11.1 17		
2 1	11 31.94	+ 6 35.4	1.578	2.419	15.1	21.9	2 1	11 29.25	-10 11.8	2.432	3.186	13.1	20.9
2 11	11 27.58	+ 7 39.5	1.488	2.403	11.2	21.7	2 11	11 24.62	-10 27.4	2.345	3.191	10.7	20.7
2 21	11 20.61	+ 8 59.4	1.421	2.385	6.7	21.4	2 21	11 18.34	-10 26.0	2.281	3.195	8.0	20.6
3 2	11 11.69	+10 27.7	1.380	2.368	2.4	21.0	3 2	11 10.94	-10 7.8	2.242	3.200	5.5	20.4
3 12	11 1.95	+11 54.6	1.367	2.350	4.6	21.1	3 12	11 3.17	- 9 35.3	2.232	3.204	4.4	20.4
3 22	10 52.65	+13 10.1	1.380	2.331	9.5	21.4	3 22	10 55.78	- 8 52.5	2.251	3.208	5.9	20.5
4 1	10 45.04	+14 6.7	1.419	2.313	14.2	21.6	4 1	10 49.50	- 8 4.4	2.297	3.213	8.5	20.6
4 11	10 40.03	+14 40.7	1.477	2.293	18.2	21.8	4 11	10 44.88	- 7 16.7	2.368	3.217	11.1	20.8
<b>205375</b>	2001 <i>AQ</i> <sub>48</sub>		3 6.2 271°89	14°7/ 12.1 18			<b>141925</b>	2002 <i>PX</i> <sub>85</sub>		3 6.2 213°97	2°7/ 3.5 18		
2 1	11 43.19	-17 51.8	1.198	1.944	24.3	20.6	2 1	11 32.31	+10 4.0	1.957	2.794	12.8	20.9
2 11	11 37.25	-20 30.3	1.118	1.939	21.5	20.3	2 11	11 27.29	+11 6.2	1.875	2.788	9.4	20.7
2 21	11 27.24	-22 43.9	1.056	1.933	18.4	20.1	2 21	11 20.15	+12 16.9	1.818	2.781	5.7	20.5
3 2	11 13.87	-24 20.2	1.013	1.927	15.8	19.9	3 2	11 11.52	+13 29.5	1.789	2.774	2.8	20.3
3 12	10 58.77	-25 10.7	0.992	1.921	14.7	19.8	3 12	11 2.37	+14 35.9	1.789	2.766	4.7	20.4
3 22	10 44.10	-25 14.5	0.993	1.915	15.8	19.9	3 22	10 53.70	+15 29.7	1.818	2.758	8.4	20.6
4 1	10 32.02	-24 39.7	1.014	1.909	18.4	20.0	4 1	10 46.48	+16 6.2	1.872	2.749	12.1	20.8
4 11	10 24.02	-23 41.5	1.054	1.903	21.7	20.2	4 11	10 41.37	+16 23.9	1.948	2.740	15.3	21.0
<b>357350</b>	2003 <i>QH</i> <sub>58</sub>		3 6.2 274°19	0°8/ 5.7 17			<b>506351</b>	2017 <i>OD</i> <sub>64</sub>		3 6.2 215°53	2°2/ 3.7 17		
2 1	11 37.93	+ 6 53.0	1.683	2.510	14.9	20.3	2 1	11 30.00	+ 9 42.3	2.326	3.158	11.2	21.9
2 11	11 32.06	+ 6 57.9	1.578	2.485	11.3	20.0	2 11	11 25.27	+10 37.0	2.242	3.152	8.2	21.7
2 21	11 23.40	+ 7 12.4	1.497	2.458	6.9	19.6	2 21	11 18.78	+11 38.9	2.183	3.146	4.9	21.5
3 2	11 12.57	+ 7 32.3	1.443	2.432	2.1	19.3	3 2	11 11.09	+12 42.4	2.153	3.139	2.3	21.3
3 12	11 0.72	+ 7 51.7	1.417	2.404	3.5	19.3	3 12	11 2.99	+13 41.5	2.153	3.132	3.8	21.4
3 22	10 49.20	+ 8 5.1	1.419	2.376	8.6	19.5	3 22	10 55.28	+14 30.8	2.183	3.124	7.2	21.6
4 1	10 39.36	+ 8 7.8	1.447	2.348	13.4	19.7	4 1	10 48.74	+15 6.4	2.239	3.116	10.4	21.8
4 11	10 32.18	+ 7 57.1	1.496	2.319	17.6	19.9	4 11	10 43.95	+15 26.4	2.318	3.108	13.2	22.0
<b>8621</b>	Jimparsons		3 6.2 238°34	1°4/ 7.9 18			<b>170773</b>	2004 <i>CB</i> <sub>78</sub>		3 6.2 346°76	1°6/ 4.7 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>30608</b>	2573 <i>P-L</i>		3 6.2 203°18	1.4/ 4.8	18		<b>195078</b>	2002 <i>CV</i> <sub>105</sub>		3 6.2 267°84	1.5/ 4.9	18	
2 1	11 32.88	+ 7 45.2	2.297	3.120	11.6	20.1	2 1	11 33.27	+ 8 37.8	1.978	2.809	12.9	20.0
2 11	11 27.40	+ 8 23.1	2.210	3.115	8.6	19.9	2 11	11 28.02	+ 8 58.1	1.889	2.799	9.6	19.7
2 21	11 20.08	+ 9 8.9	2.148	3.110	5.1	19.7	2 21	11 20.63	+ 9 25.7	1.825	2.788	5.8	19.5
3 2	11 11.49	+ 9 57.9	2.116	3.104	1.8	19.4	3 2	11 11.73	+ 9 56.1	1.789	2.777	2.0	19.2
3 12	11 2.45	+10 44.6	2.113	3.097	3.2	19.5	3 12	11 2.29	+10 23.6	1.781	2.766	3.5	19.3
3 22	10 53.84	+11 23.9	2.141	3.089	6.8	19.7	3 22	10 53.31	+10 43.3	1.802	2.754	7.5	19.5
4 1	10 46.46	+11 52.0	2.195	3.081	10.2	19.9	4 1	10 45.76	+10 51.7	1.849	2.743	11.4	19.7
4 11	10 40.92	+12 6.8	2.274	3.072	13.1	20.1	4 11	10 40.33	+10 46.8	1.919	2.732	14.7	19.9
<b>370757</b>	2004 <i>RL</i> <sub>250</sub>		3 6.2 172°87	5.1/13.3	16		<b>310408</b>	1999 <i>TG</i> <sub>43</sub>		3 6.2 61°84	0°3/ 6.5	18	
2 1	11 29.02	-17 33.8	2.398	3.108	14.4	21.3	2 1	11 33.53	+ 2 22.4	1.411	2.244	17.0	20.9
2 11	11 24.51	-16 40.9	2.299	3.111	12.0	21.1	2 11	11 28.53	+ 2 48.1	1.356	2.264	12.7	20.7
2 21	11 18.30	-15 21.4	2.222	3.113	9.3	20.9	2 21	11 20.98	+ 3 30.2	1.324	2.284	7.7	20.5
3 2	11 10.95	-13 36.2	2.171	3.115	6.6	20.8	3 2	11 11.81	+ 4 23.0	1.316	2.304	2.4	20.2
3 12	11 3.22	-11 30.1	2.149	3.116	5.1	20.7	3 12	11 2.30	+ 5 18.3	1.335	2.325	3.0	20.3
3 22	10 55.92	- 9 10.0	2.159	3.117	6.1	20.7	3 22	10 53.74	+ 6 8.3	1.381	2.345	8.0	20.6
4 1	10 49.78	+11 48.9	2.199	3.117	8.7	20.9	4 1	10 47.19	+ 6 46.6	1.451	2.366	12.5	20.9
4 11	10 45.35	- 4 30.7	2.268	3.117	11.5	21.1	4 11	10 43.29	+ 7 9.5	1.543	2.386	16.2	21.2
<b>461090</b>	2015 <i>AE</i> <sub>257</sub>		3 6.2 178°05	3.4/ 2.7	18		<b>273281</b>	2006 <i>QD</i> <sub>166</sub>		3 6.2 162°51	1°6/ 7.7	18	
2 1	11 31.14	+12 59.2	2.095	2.936	11.9	20.9	2 1	11 33.85	- 0 44.1	1.980	2.782	14.0	21.7
2 11	11 26.24	+13 58.6	2.022	2.936	8.7	20.7	2 11	11 28.34	- 0 35.2	1.898	2.786	10.7	21.5
2 21	11 19.41	+15 2.9	1.975	2.937	5.5	20.5	2 21	11 20.75	- 0 11.8	1.840	2.790	6.9	21.3
3 2	11 11.29	+16 5.2	1.956	2.937	3.4	20.3	3 2	11 11.76	+ 0 23.5	1.810	2.794	3.0	21.0
3 12	11 2.78	+16 58.8	1.967	2.938	5.1	20.4	3 12	11 2.31	+ 1 5.7	1.809	2.797	2.5	21.0
3 22	10 54.80	+17 38.4	2.005	2.937	8.3	20.6	3 22	10 53.39	+ 1 49.4	1.836	2.800	6.4	21.2
4 1	10 48.18	+18 0.8	2.069	2.937	11.5	20.8	4 1	10 45.93	+ 2 28.9	1.891	2.802	10.2	21.5
4 11	10 43.52	+18 5.4	2.155	2.936	14.3	21.0	4 11	10 40.56	+ 2 59.9	1.970	2.804	13.6	21.7
<b>402041</b>	2003 <i>SV</i> <sub>270</sub>		3 6.2 113°19	1°8/ 4.5	18		<b>81974</b>	2000 <i>QT</i> <sub>77</sub>		3 6.2 243°42	0°9/ 7.3	17	
2 1	11 34.28	+ 7 32.8	1.802	2.634	13.9	22.1	2 1	11 28.65	+ 0 22.1	2.680	3.480	10.8	20.7
2 11	11 28.64	+ 8 25.4	1.742	2.652	10.2	21.9	2 11	11 24.12	+ 0 44.1	2.578	3.467	8.2	20.5
2 21	11 20.86	+ 9 27.5	1.707	2.670	6.0	21.7	2 21	11 18.06	+ 1 17.2	2.501	3.453	5.2	20.3
3 2	11 11.71	+10 32.3	1.699	2.687	2.2	21.4	3 2	11 10.94	+ 1 59.0	2.453	3.439	2.0	20.1
3 12	11 2.26	+11 32.2	1.721	2.704	3.9	21.6	3 12	11 3.40	+ 2 45.5	2.436	3.425	1.9	20.0
3 22	10 53.56	+12 21.0	1.770	2.720	7.9	21.9	3 22	10 56.13	+ 3 32.4	2.448	3.410	5.1	20.2
4 1	10 46.52	+12 54.3	1.846	2.735	11.7	22.1	4 1	10 49.81	+ 4 15.4	2.489	3.395	8.3	20.4
4 11	10 41.74	+13 10.7	1.944	2.750	14.8	22.4	4 11	10 44.97	+ 4 50.8	2.554	3.379	11.1	20.6
<b>416014</b>	2002 <i>CE</i> <sub>91</sub>		3 6.2 331°42	0°4/ 6.5	17		<b>426386</b>	2013 <i>PC</i> <sub>21</sub>		3 6.2 139°44	2°5/ 2.8	17	
2 1	11 33.85	+ 4 19.4	1.703	2.531	14.8	20.7	2 1	11 31.01	+12 1.4	2.831	3.657	9.6	22.4
2 11	11 28.68	+ 4 11.4	1.620	2.525	11.2	20.5	2 11	11 25.61	+13 7.5	2.767	3.674	7.0	22.3
2 21	11 21.11	+ 4 14.1	1.560	2.519	6.9	20.2	2 21	11 18.81	+14 17.2	2.731	3.691	4.3	22.1
3 2	11 11.85	+ 4 24.3	1.526	2.514	2.2	19.9	3 2	11 11.12	+15 25.4	2.725	3.706	2.5	22.0
3 12	11 1.99	+ 4 37.4	1.520	2.509	2.7	19.9	3 12	11 3.21	+16 26.7	2.751	3.721	3.9	22.1
3 22	10 52.71	+ 4 48.5	1.542	2.505	7.4	20.2	3 22	10 55.73	+17 17.2	2.807	3.735	6.4	22.3
4 1	10 45.09	+ 4 53.4	1.589	2.501	11.8	20.4	4 1	10 49.28	+17 54.2	2.891	3.748	9.0	22.5
4 11	10 39.89	+ 4 48.8	1.658	2.497	15.5	20.6	4 11	10 44.33	+18 16.7	2.998	3.760	11.1	22.7
<b>350114</b>	2011 <i>QM</i> <sub>10</sub>		3 6.2 256°73	1°2/ 7.6	17		<b>271872</b>	2004 <i>TU</i> <sub>335</sub>		3 6.2 335°64	0°9/ 7.1	18	
2 1	11 27.74	- 1 2.3	2.429	3.231	11.7	21.8	2 1	11 29.12	+ 0 33.4	1.839	2.658	14.2	20.5
2 11	11 23.57	- 0 36.1	2.332	3.220	9.0	21.6	2 11	11 25.01	+ 0 58.7	1.756	2.656	10.8	20.2
2 21	11 17.76	+ 0 3.7	2.259	3.209	5.8	21.4	2 21	11 18.82	+ 1 39.7	1.697	2.653	6.8	20.0
3 2	11 10.81	+ 0 54.2	2.214	3.198	2.4	21.1	3 2	11 11.19	+ 2 32.5	1.664	2.651	2.5	19.7
3 12	11 3.44	+ 1 51.0	2.198	3.187	2.0	21.1	3 12	11 3.07	+ 3 31.0	1.659	2.649	2.4	19.7
3 22	10 56.38	+ 2 48.9	2.212	3.176	5.5	21.3	3 22	10 55.44	+ 4 28.6	1.682	2.647	6.8	20.0
4 1	10 50.35	+ 3 42.7	2.254	3.165	8.8	21.5	4 1	10 49.25	+ 5 18.8	1.731	2.645	10.8	20.2
4 11	10 45.93	+ 4 28.1	2.321	3.153	11.8	21.6	4 11	10 45.14	+ 5 56.9	1.803	2.643	14.4	20.4
<b>69700</b>	1998 <i>HL</i> <sub>46</sub>		3 6.2 345°62	0°0/ 6.2	18		<b>113772</b>	2002 <i>TK</i> <sub>183</sub>		3 6.2 116°12	0°5/ 5.8	17	
2 1	11 27.48	+ 2 18.7	1.213	2.065	18.0	18.8	2 1	11 32.55	+ 5 57.6	2.311	3.130	11.7	19.4
2 11	11 24.69	+ 2 49.3	1.139	2.057	13.6	18.5	2 11	11 27.03	+ 6 12.1	2.238	3.140	8.7	19.2
2 21	11 19.04	+ 3 41.0	1.085	2.050	8.4	18.2	2 21	11 19.79	+ 6 34.3	2.190	3.150	5.2	19.0
3 2	11 11.29	+ 4 47.9	1.055	2.043	2.6	17.8	3 2	11 11.44	+ 7 0.5	2.171	3.160	1.5	18.8
3 12	11 2.78	+ 6 0.5	1.048	2.038	3.4	17.9	3 12	11 2.79	+ 7 26.3	2.182	3.169	2.4	18.9
3 22	10 54.97	+ 7 7.9	1.067	2.034	9.3	18.2	3 22	10 54.67	+ 7 47.8	2.222	3.178	6.0	19.1
4 1	10 49.21	+ 8 0.9	1.107	2.031	14.6	18.5	4 1	10 47.81	+ 8 1.8	2.290	3.187	9.3	19.3
4 11	10 46.38	+ 8 33.7	1.167	2.029	19.1	18.7	4 11	10 42.73	+ 8 6.2	2.382	3.196	12.2	19.5
<b>286400</b>	2001 <i>YQ</i> <sub>54</sub>		3 6.2 107°42	3°1/ 9.7	18		<b>284879</b>	2009 <i>DF</i> <sub>93</sub>		3 6.2 56°61	1°3/ 4.6	18	
2 1	11 29.22	- 6 18.7	2.471	3.245	12.4	20.7	2 1	11 26.67	+ 5 57.1	2.213	3.045	11.7	20.4
2 11	11 24.54	- 6 20.6	2.388	3.253	9.8	20.5	2 11	11 22.83	+ 7 1.8	2.140	3.050	8.6	20.2
2 21	11 18.27	- 6 7.6	2.329	3.260	6.9	20.3	2 21	11 17.32	+ 8 16.7	2.092	3.055	5.0	20.0
3 2	11 10.96	- 5 40.9	2.297	3.268	4.1	20.2	3 2	11 10.71	+ 9 36.3	2.072	3.060	1.7	19.7
3 12	11 3.32	- 5 3.8	2.294	3.276	3.2	20.1	3 12	11 3.77	+10 53.8	2.082	3.066	3.2	19.8
3 22	10 56.08	- 4 20.5	2.320	3.283	5.3	20.2	3 22	10 57.27	+12 2.8	2.121	3.071	6.7	20.1
4 1	10 49.44	- 3 35.8	2.375	3.291	8.2	20.4	4 1	10 51.95	+12 58.6	2.187	3.077	10.0	20.3
4 11	10 45.92	- 2 54.5	2.454	3.298	10.9	20.6	4 11	10 48.33	+13 38.4	2.276	3.083	12.9	20.5
<b>93036</b>	2000 <i>RW</i> <sub>103</sub>		3 6.2 216°58	1°3/ 4.9	18	R	<b>154757</b>	2004 <i>PX</i> <sub>9</sub>		3 6.2 166°64	0°9/ 7.1	1	

EPHEMERIDES

3 6.2

3 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>327308</b>	2005 <i>UL</i> <sub>10</sub>		3 6.2 140°37'	6°4/28.5	18		<b>222730</b>	2002 <i>AR</i> <sub>171</sub>		3 6.2 86°52'	0°6/6.7	18	
2 1	11 35.75	+23 55.4	2.164	3.002	11.7	21.4	2 1	11 32.97	+2 13.2	1.851	2.669	14.2	20.8
2 11	11 29.58	+25 4.4	2.110	3.012	9.1	21.2	2 11	11 27.69	+2 28.6	1.784	2.683	10.7	20.6
2 21	11 21.39	+26 8.2	2.082	3.022	7.0	21.1	2 21	11 20.34	+2 56.8	1.741	2.698	6.6	20.4
3 2	11 11.92	+26 59.1	2.082	3.031	6.5	21.1	3 2	11 11.64	+3 33.9	1.724	2.712	2.2	20.1
3 12	11 2.18	+27 30.9	2.111	3.040	7.9	21.2	3 12	11 2.60	+4 14.4	1.736	2.726	2.4	20.1
3 22	10 53.14	+27 40.7	2.166	3.049	10.3	21.4	3 22	10 54.24	+4 52.5	1.777	2.740	6.7	20.4
4 1	10 45.68	+27 28.2	2.245	3.057	12.8	21.5	4 1	10 47.43	+5 23.2	1.844	2.753	10.6	20.7
4 11	10 40.35	+26 55.9	2.345	3.064	15.0	21.7	4 11	10 42.78	+5 43.2	1.934	2.767	13.8	20.9
<b>115957</b>	2003 <i>WS</i> <sub>40</sub>		3 6.2 35°39'	3°1/8.6	18		<b>74658</b>	1999 <i>RT</i> <sub>89</sub>		3 6.2 246°65'	1°6/4.8	16	
2 1	11 31.53	-3 13.7	1.420	2.238	17.7	19.6	2 1	11 33.65	+7 8.4	1.884	2.714	13.5	20.5
2 11	11 27.25	-3 17.6	1.351	2.244	13.8	19.4	2 11	11 28.51	+7 50.6	1.789	2.697	10.1	20.3
2 21	11 20.36	-3 0.1	1.302	2.251	9.3	19.2	2 21	11 21.06	+8 43.9	1.718	2.681	6.1	20.0
3 2	11 11.69	-2 23.5	1.278	2.259	4.7	18.9	3 2	11 11.94	+9 42.8	1.675	2.663	2.0	19.7
3 12	11 2.46	-1 33.8	1.279	2.267	3.6	18.9	3 12	11 2.10	+10 40.1	1.661	2.645	3.7	19.8
3 22	10 53.98	-0 38.9	1.306	2.275	7.7	19.1	3 22	10 52.67	+11 29.1	1.675	2.626	8.1	20.0
4 1	10 47.42	+0 13.0	1.358	2.284	12.3	19.4	4 1	10 44.69	+12 4.3	1.715	2.607	12.2	20.2
4 11	10 43.51	+0 54.8	1.431	2.293	16.2	19.7	4 11	10 38.96	+12 22.9	1.777	2.587	15.8	20.4
<b>206174</b>	2002 <i>TD</i> <sub>278</sub>		3 6.2 154°95'	1°4/7.7	18		<b>298763</b>	2004 <i>JD</i> <sub>29</sub>		3 6.2 245°84'	4°4/11.9	17	
2 1	11 31.37	-0 16.3	2.472	3.269	11.7	20.4	2 1	11 27.11	-12 43.6	2.726	3.462	12.2	20.9
2 11	11 26.12	-0 12.2	2.388	3.274	8.9	20.2	2 11	11 23.02	-12 36.7	2.618	3.450	10.1	20.7
2 21	11 19.25	+0 3.1	2.329	3.278	5.8	20.0	2 21	11 17.43	-12 11.8	2.533	3.438	7.7	20.6
3 2	11 11.29	+0 27.3	2.298	3.282	2.5	19.8	3 2	11 10.79	-11 29.1	2.474	3.425	5.5	20.4
3 12	11 2.99	+0 57.0	2.297	3.286	2.1	19.7	3 12	11 3.72	-10 31.0	2.444	3.413	4.4	20.3
3 22	10 55.11	+1 28.0	2.326	3.289	5.3	20.0	3 22	10 56.91	-9 21.9	2.443	3.400	5.5	20.3
4 1	10 48.35	+1 56.4	2.384	3.292	8.5	20.2	4 1	10 51.03	-8 7.1	2.470	3.386	7.9	20.5
4 11	10 43.24	+2 18.7	2.466	3.295	11.3	20.3	4 11	10 46.60	-6 52.8	2.524	3.373	10.5	20.6
<b>103648</b>	2000 <i>CG</i> <sub>37</sub>		3 6.2 188°00'	0°8/6.9	18		<b>344589</b>	2003 <i>BR</i> <sub>81</sub>		3 6.2 74°03'	3°9/29.9	18 R	
2 1	11 34.11	+1 58.1	1.993	2.803	13.6	19.1	2 1	11 27.19	+12 29.0	2.201	3.046	11.2	19.9
2 11	11 28.56	+2 7.8	1.908	2.803	10.3	18.9	2 11	11 23.24	+14 29.8	2.143	3.060	8.2	19.8
2 21	11 20.91	+2 29.8	1.847	2.802	6.5	18.7	2 21	11 17.58	+16 36.4	2.112	3.073	5.2	19.6
3 2	11 11.83	+3 0.9	1.814	2.801	2.3	18.4	3 2	11 10.82	+18 40.1	2.111	3.087	3.9	19.5
3 12	11 2.25	+3 36.3	1.810	2.800	2.4	18.4	3 12	11 3.73	+20 31.8	2.141	3.101	5.8	19.7
3 22	10 53.18	+4 10.7	1.836	2.798	6.6	18.7	3 22	10 57.12	+22 4.9	2.200	3.114	8.7	19.9
4 1	10 45.54	+4 39.3	1.888	2.795	10.5	18.9	4 1	10 51.74	+23 15.3	2.285	3.128	11.5	20.1
4 11	10 40.01	+4 58.4	1.964	2.792	13.8	19.1	4 11	10 48.10	+24 2.3	2.391	3.141	13.9	20.3
<b>499848</b>	2011 <i>EH</i> <sub>29</sub>		3 6.2 272°60'	1°5/4.6	17		<b>341390</b>	2007 <i>TY</i> <sub>130</sub>		3 6.2 112°28'	2°5/3.5	17	
2 1	11 28.31	+5 42.3	1.884	2.720	13.2	21.6	2 1	11 31.86	+12 27.0	2.386	3.219	10.9	20.7
2 11	11 24.39	+6 49.7	1.803	2.715	9.8	21.4	2 11	11 26.48	+13 1.6	2.320	3.230	8.0	20.5
2 21	11 18.44	+8 10.3	1.747	2.711	5.8	21.1	2 21	11 19.45	+13 39.4	2.279	3.240	4.9	20.4
3 2	11 11.09	+9 37.7	1.718	2.706	1.9	20.9	3 2	11 11.36	+14 15.5	2.267	3.251	2.6	20.2
3 12	11 3.24	+11 3.5	1.718	2.702	3.7	21.0	3 12	11 3.02	+14 45.1	2.286	3.261	4.0	20.3
3 22	10 55.87	+12 19.8	1.746	2.697	7.8	21.2	3 22	10 55.20	+15 4.5	2.333	3.271	7.0	20.5
4 1	10 49.88	+13 20.5	1.799	2.692	11.7	21.4	4 1	10 48.63	+15 11.4	2.407	3.281	9.9	20.7
4 11	10 45.93	+14 2.2	1.875	2.688	15.0	21.6	4 11	10 43.81	+15 5.2	2.504	3.290	12.4	20.9
<b>181173</b>	2005 <i>SY</i> <sub>66</sub>		3 6.2 242°53'	0°5/5.7	17		<b>327383</b>	2005 <i>UL</i> <sub>378</sub>		3 6.2 220°82'	2°6/3.7	17	
2 1	11 28.43	+5 11.9	2.635	3.453	10.4	21.5	2 1	11 32.03	+10 36.3	2.009	2.846	12.5	22.0
2 11	11 23.94	+5 41.0	2.542	3.444	7.8	21.3	2 11	11 27.05	+11 24.9	1.928	2.841	9.2	21.8
2 21	11 17.94	+6 18.5	2.476	3.436	4.7	21.1	2 21	11 20.02	+12 20.6	1.872	2.835	5.6	21.6
3 2	11 10.91	+7 0.7	2.438	3.427	1.4	20.8	3 2	11 11.59	+13 17.2	1.844	2.830	2.7	21.4
3 12	11 3.50	+7 43.5	2.431	3.418	2.2	20.9	3 12	11 2.67	+14 7.7	1.846	2.824	4.4	21.5
3 22	10 56.42	+8 22.5	2.453	3.408	5.6	21.1	3 22	10 54.24	+14 46.6	1.875	2.817	8.1	21.7
4 1	10 50.32	+8 54.0	2.503	3.399	8.7	21.2	4 1	10 47.22	+15 10.1	1.931	2.811	11.6	21.9
4 11	10 45.72	+9 15.5	2.577	3.390	11.4	21.4	4 11	10 42.26	+15 16.6	2.008	2.804	14.7	22.1
<b>9052</b>	<i>Uhland</i>		3 6.2 161°29'	0°4/6.6	18		<b>408680</b>	2014 <i>MO</i> <sub>39</sub>		3 6.2 249°50'	3°2/3.6	17	
2 1	11 33.44	+1 56.9	2.078	2.888	13.2	18.8	2 1	11 34.43	+10 36.5	1.616	2.460	14.7	22.0
2 11	11 27.93	+2 23.8	1.999	2.894	9.9	18.6	2 11	11 29.40	+11 30.7	1.531	2.447	10.9	21.8
2 21	11 20.46	+3 3.2	1.944	2.900	6.1	18.3	2 21	11 21.74	+12 34.6	1.470	2.434	6.7	21.5
3 2	11 11.67	+3 51.5	1.917	2.905	2.0	18.1	3 2	11 12.17	+13 40.5	1.435	2.420	3.3	21.2
3 12	11 2.48	+4 42.9	1.920	2.909	2.3	18.1	3 12	11 1.84	+14 39.2	1.428	2.406	5.4	21.3
3 22	10 53.82	+5 31.8	1.952	2.913	6.4	18.4	3 22	10 52.05	+15 23.0	1.448	2.392	9.8	21.5
4 1	10 46.54	+6 13.1	2.012	2.916	10.1	18.6	4 1	10 44.02	+15 46.9	1.492	2.377	14.2	21.8
4 11	10 41.26	+6 43.3	2.096	2.918	13.3	18.8	4 11	10 38.60	+15 49.5	1.556	2.362	17.9	22.0
<b>211019</b>	2001 <i>YE</i> <sub>153</sub>		3 6.2 74°59'	4°5/1.5	18		<b>35778</b>	1999 <i>JL</i> <sub>16</sub>		3 6.2 348°66'	4°4/9.7	18	
2 1	11 32.50	+19 8.8	2.307	3.148	10.9	20.2	2 1	11 29.70	-6 42.6	1.370	2.180	18.7	18.7
2 11	11 27.03	+19 50.2	2.247	3.156	8.2	20.0	2 11	11 26.13	-6 45.2	1.292	2.177	14.9	18.5
2 21	11 19.79	+20 29.8	2.212	3.165	5.7	19.9	2 21	11 19.84	-6 21.3	1.233	2.175	10.6	18.2
3 2	11 11.45	+21 2.0	2.205	3.174	4.5	19.8	3 2	11 11.60	-5 32.0	1.197	2.173	6.2	18.0
3 12	11 2.86	+21 21.6	2.227	3.183	5.9	19.9	3 12	11 2.63	-4 23.0	1.186	2.171	4.6	17.9
3 22	10 54.87	+21 25.7	2.278	3.192	8.4	20.1	3 22	10 54.30	-3 3.5	1.200	2.170	8.2	18.0
4 1	10 48.23	+21 13.3	2.353	3.201	11.1	20.3	4 1	10 47.86	-1 44.1	1.239	2.169	12.8	18.3
4 11	10 43.46	+20 45.4	2.451	3.209	13.4	20.5	4 11	10 44.18	-0 34.4	1.298	2.169	17.0	18.5
<b>279014</b>	2008 <i>UZ</i> <sub>288</sub>		3 6.2 69°70'	0°4/5.8	17		<b>167693</b>	2004 <i>QJ</i> <sub>20</sub>		3 6.2 164°61'	6°0/12.2	18	
2 1	11 29.21	+4 6.3	2.005	2.832	12.9								

EPHEMERIDES

3 6.2

3 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>55685</b>	2030 $T_{-2}$		3 6.2 138°03	0°5/ 5.7 18			<b>426975</b>	2013 $YF_{138}$		3 6.2 213°66	4°6/29.9 17		
2 1	11 33.04	+ 4 52.7	1.919	2.743	13.5	20.2	2 1	11 31.52	+19 13.9	2.437	3.277	10.5	21.5
2 11	11 27.76	+ 5 24.0	1.846	2.751	10.0	20.0	2 11	11 26.37	+20 10.3	2.364	3.273	7.9	21.3
2 21	11 20.41	+ 6 6.3	1.797	2.758	6.0	19.7	2 21	11 19.48	+21 6.1	2.316	3.269	5.6	21.1
3 2	11 11.70	+ 6 54.9	1.776	2.765	1.7	19.5	3 2	11 11.43	+21 55.1	2.298	3.264	4.6	21.1
3 12	11 2.58	+ 7 43.4	1.784	2.771	2.8	19.6	3 12	11 3.02	+22 31.8	2.308	3.259	6.0	21.2
3 22	10 54.06	+ 8 26.1	1.820	2.777	7.1	19.8	3 22	10 55.07	+22 52.3	2.347	3.254	8.6	21.3
4 1	10 47.04	+ 8 58.2	1.883	2.783	10.9	20.1	4 1	10 48.33	+22 55.0	2.410	3.248	11.2	21.5
4 11	10 42.14	+ 9 17.0	1.969	2.789	14.1	20.3	4 11	10 43.37	+22 40.4	2.496	3.242	13.5	21.6
<b>492234</b>	2013 $TP_{83}$		3 6.2 163°11	1°4/ 7.6 17			<b>376345</b>	2011 $HS_{31}$		3 6.2 351°00	1°8/ 7.9 17		
2 1	11 30.82	- 0 43.5	2.189	2.991	12.8	22.1	2 1	11 28.06	- 1 45.5	1.727	2.544	15.1	20.5
2 11	11 25.94	- 0 26.5	2.105	2.994	9.8	21.9	2 11	11 24.38	- 1 23.2	1.646	2.541	11.6	20.2
2 21	11 19.26	+ 0 4.2	2.046	2.996	6.3	21.7	2 21	11 18.53	+ 0 42.3	1.586	2.539	7.6	20.0
3 2	11 11.35	+ 0 45.6	2.014	2.999	2.7	21.5	3 2	11 11.19	+ 0 13.8	1.552	2.537	3.3	19.7
3 12	11 3.04	+ 1 33.3	2.012	3.001	2.2	21.5	3 12	11 3.32	+ 1 18.9	1.546	2.535	2.6	19.6
3 22	10 55.18	+ 2 21.7	2.039	3.003	5.8	21.7	3 22	10 55.97	+ 2 25.6	1.566	2.534	6.9	19.9
4 1	10 48.57	+ 3 5.9	2.093	3.004	9.4	21.9	4 1	10 50.10	+ 3 26.3	1.613	2.533	11.1	20.1
4 11	10 43.79	+ 3 41.4	2.172	3.005	12.5	22.1	4 11	10 46.41	+ 4 15.3	1.682	2.533	14.7	20.4
<b>141101</b>	2001 $XY_{53}$		3 6.2 86°69	1°1/ 7.6 17			<b>239399</b>	2007 $TJ_{38}$		3 6.2 36°50	2°1/ 8.6 18		
2 1	11 28.57	- 0 41.9	2.381	3.183	11.9	20.1	2 1	11 26.96	- 4 21.3	2.041	2.839	13.8	20.4
2 11	11 24.06	- 0 16.4	2.309	3.198	9.0	19.9	2 11	11 23.22	- 3 47.0	1.959	2.842	10.7	20.2
2 21	11 18.01	+ 0 21.6	2.261	3.212	5.8	19.8	2 21	11 17.67	- 2 54.2	1.901	2.846	7.1	20.0
3 2	11 10.95	+ 1 9.1	2.242	3.227	2.3	19.6	3 2	11 10.90	- 1 45.9	1.869	2.850	3.5	19.8
3 12	11 3.62	+ 2 1.3	2.252	3.241	2.0	19.6	3 12	11 3.74	+ 0 28.1	1.866	2.854	2.6	19.7
3 22	10 56.77	+ 2 53.4	2.292	3.256	5.3	19.8	3 22	10 57.03	+ 0 52.3	1.891	2.858	5.9	19.9
4 1	10 51.04	+ 3 40.5	2.359	3.270	8.5	20.0	4 1	10 51.58	+ 2 8.3	1.944	2.862	9.6	20.2
4 11	10 46.94	+ 4 18.9	2.452	3.284	11.3	20.2	4 11	10 47.97	+ 3 13.9	2.020	2.867	12.8	20.4
<b>426035</b>	2011 $SS_{28}$		3 6.2 228°66	2°4/ 3.4 17			<b>351647</b>	2005 $YO_{106}$		3 6.2 78°26	2°4/ 8.0 18		
2 1	11 32.24	+13 25.7	2.841	3.667	9.5	21.4	2 1	11 33.65	- 2 6.7	1.391	2.210	17.9	21.4
2 11	11 26.67	+13 52.4	2.750	3.656	7.0	21.2	2 11	11 28.87	- 1 58.3	1.324	2.220	13.8	21.1
2 21	11 19.57	+14 21.4	2.686	3.645	4.4	21.0	2 21	11 21.38	- 1 28.5	1.278	2.230	9.1	20.9
3 2	11 11.44	+14 48.6	2.652	3.634	2.4	20.9	3 2	11 12.06	- 0 40.7	1.256	2.240	4.1	20.6
3 12	11 2.94	+15 10.0	2.649	3.622	3.7	21.0	3 12	11 2.20	+ 0 17.9	1.261	2.250	3.3	20.6
3 22	10 54.79	+15 22.5	2.675	3.610	6.4	21.1	3 22	10 53.16	+ 1 18.8	1.292	2.260	7.9	20.9
4 1	10 47.65	+15 24.0	2.730	3.597	9.1	21.3	4 1	10 46.14	+ 2 13.5	1.348	2.270	12.6	21.2
4 11	10 42.03	+15 13.8	2.809	3.584	11.5	21.4	4 11	10 41.88	+ 2 55.6	1.424	2.280	16.6	21.4
<b>64365</b>	2001 $UG_{103}$		3 6.2 299°61	1°8/ 4.6 18			<b>354035</b>	2001 $RD_{125}$		3 6.2 126°93	1°9/ 4.9 18		
2 1	11 30.72	+ 7 26.8	1.672	2.513	14.3	19.4	2 1	11 38.19	+ 8 32.4	1.634	2.466	15.1	21.9
2 11	11 26.46	+ 8 11.3	1.591	2.506	10.6	19.2	2 11	11 31.84	+ 9 2.0	1.570	2.479	11.1	21.6
2 21	11 19.85	+ 9 7.5	1.534	2.498	6.4	18.9	2 21	11 22.99	+ 9 40.1	1.529	2.491	6.6	21.4
3 2	11 11.58	+ 10 8.9	1.503	2.491	2.2	18.6	3 2	11 12.52	+ 10 20.5	1.515	2.503	2.3	21.2
3 12	11 2.72	+ 11 7.5	1.499	2.484	4.1	18.7	3 12	11 1.65	+ 10 56.0	1.530	2.515	4.0	21.3
3 22	10 54.41	+ 11 56.0	1.523	2.476	8.6	19.0	3 22	10 51.63	+ 11 21.0	1.573	2.525	8.5	21.6
4 1	10 47.70	+ 12 29.0	1.571	2.469	12.8	19.2	4 1	10 43.53	+ 11 31.8	1.642	2.535	12.6	21.8
4 11	10 43.36	+ 12 43.7	1.641	2.463	16.4	19.4	4 11	10 38.03	+ 11 27.1	1.732	2.545	16.0	22.1
<b>57033</b>	2000 $VR_{15}$		3 6.2 255°62	6°8/25.9 18			<b>194937</b>	2002 $AH_{147}$		3 6.2 340°90	3°2/ 8.4 18		
2 1	11 32.05	+28 36.7	2.650	3.482	10.0	19.5	2 1	11 31.56	- 1 41.8	1.492	2.312	16.9	19.4
2 11	11 26.80	+29 47.1	2.577	3.467	8.2	19.3	2 11	11 27.39	- 2 10.5	1.408	2.303	13.2	19.1
2 21	11 19.76	+30 51.4	2.531	3.452	7.0	19.2	2 21	11 20.60	- 2 22.3	1.345	2.295	9.0	18.9
3 2	11 11.51	+31 42.7	2.512	3.436	7.0	19.2	3 2	11 11.88	- 2 18.1	1.305	2.287	4.6	18.6
3 12	11 2.84	+32 15.5	2.521	3.420	8.2	19.3	3 12	11 2.41	- 2 1.4	1.292	2.280	3.7	18.5
3 22	10 54.61	+32 26.9	2.556	3.404	10.2	19.4	3 22	10 53.49	- 1 37.8	1.305	2.273	7.8	18.7
4 1	10 47.58	+32 16.3	2.614	3.388	12.2	19.5	4 1	10 46.35	- 1 13.7	1.342	2.268	12.4	19.0
4 11	10 42.34	+31 45.5	2.692	3.371	14.1	19.6	4 11	10 41.83	- 0 55.4	1.400	2.264	16.4	19.2
<b>502902</b>	2015 $EZ_8$		3 6.2 56°10	1°2/ 4.9 18			<b>11078</b>	1992 $WH_2$		3 6.2 329°52	6°4/12.9 18		
2 1	11 28.78	+ 6 18.6	2.075	2.906	12.4	20.7	2 1	11 27.49	-14 42.3	2.016	2.760	15.7	16.9
2 11	11 24.52	+ 7 4.7	1.999	2.909	9.1	20.5	2 11	11 23.82	-14 59.9	1.922	2.754	13.3	16.7
2 21	11 18.43	+ 8 0.7	1.948	2.911	5.4	20.3	2 21	11 18.16	-14 53.8	1.848	2.748	10.5	16.5
3 2	11 11.11	+ 9 1.5	1.925	2.913	1.7	20.1	3 2	11 11.10	-14 23.2	1.798	2.742	7.8	16.3
3 12	11 3.41	+ 10 0.6	1.930	2.916	3.1	20.2	3 12	11 3.49	-13 30.0	1.774	2.736	6.4	16.2
3 22	10 56.20	+ 10 52.1	1.965	2.918	6.9	20.4	3 22	10 56.26	-12 19.6	1.777	2.731	7.5	16.3
4 1	10 50.27	+ 11 31.5	2.025	2.920	10.5	20.6	4 1	10 50.31	-10 59.3	1.805	2.726	10.0	16.4
4 11	10 46.21	+ 11 56.1	2.109	2.923	13.5	20.8	4 11	10 46.33	- 9 37.5	1.858	2.722	13.0	16.6
<b>327028</b>	2004 $RG_{246}$		3 6.2 228°07	2°9/ 9.6 17			<b>463638</b>	2013 $TA_{110}$		3 6.2 216°65	4°3/10.8 17		
2 1	11 29.10	- 7 13.5	2.330	3.103	13.0	21.5	2 1	11 32.54	-10 1.3	2.510	3.257	12.9	22.2
2 11	11 24.71	- 6 46.2	2.228	3.093	10.4	21.3	2 11	11 27.19	-10 11.5	2.405	3.247	10.5	22.0
2 21	11 18.56	- 6 0.2	2.149	3.082	7.3	21.0	2 21	11 20.06	-10 4.9	2.323	3.237	7.9	21.8
3 2	11 11.18	- 4 57.1	2.097	3.071	4.2	20.8	3 2	11 11.66	- 9 41.5	2.267	3.226	5.3	21.7
3 12	11 3.30	- 3 41.3	2.075	3.059	3.1	20.7	3 12	11 2.74	- 9 3.4	2.241	3.214	4.3	21.6
3 22	10 55.73	- 2 19.0	2.082	3.047	5.7	20.9	3 22	10 54.10	- 8 14.7	2.244	3.202	5.9	21.7
4 1	10 49.26	- 0 56.8	2.118	3.034	9.0	21.0	4 1	10 46.53	- 7 20.6	2.276	3.188	8.7	21.8
4 11	10 44.51	+ 0 18.8	2.179	3.021	12.1	21.2	4 11	10 40.65	- 6 26.8	2.334	3.174	11.5	22.0
<b>211130</b>	2002 $GH_{53}$		3 6.2 31°05	1°7/ 7.6 18			<b>95250</b>	2002 $CQ_{55}$		3 6.2 14°89	0°4/ 6.6 18		
2 1	11 29.83	- 1 30.8											



EPHEMERIDES

3 6.2

3 6.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>233558</b>	2007 <i>OF</i> <sub>5</sub>		3 6.2 131°47'	0°8'	5.3 18		<b>497845</b>	2006 <i>UK</i> <sub>77</sub>		3 6.3 132°38'	1°1'	7.7 17	
2 1	11 30.51	+ 6 4.6	2.250	3.074	11.8	21.0	2 1	11 28.97	- 0 39.8	2.856	3.648	10.4	22.7
2 11	11 25.65	+ 6 38.4	2.175	3.080	8.7	20.8	2 11	11 24.18	- 0 20.6	2.776	3.660	7.9	22.5
2 21	11 19.07	+ 7 20.8	2.125	3.086	5.2	20.6	2 21	11 18.04	+ 0 8.9	2.723	3.671	5.1	22.3
3 2	11 11.34	+ 8 7.6	2.103	3.092	1.6	20.4	3 2	11 11.03	+ 0 46.4	2.698	3.682	2.1	22.1
3 12	11 3.28	+ 8 53.2	2.111	3.098	2.7	20.5	3 12	11 3.78	+ 1 28.3	2.704	3.693	1.8	22.1
3 22	10 55.70	+ 9 33.0	2.149	3.103	6.4	20.7	3 22	10 56.90	+ 2 10.6	2.741	3.703	4.6	22.3
4 1	10 49.36	+ 10 2.8	2.213	3.108	9.7	20.9	4 1	10 50.97	+ 2 49.7	2.806	3.713	7.4	22.5
4 11	10 44.79	+ 10 20.5	2.301	3.113	12.6	21.1	4 11	10 46.43	+ 3 22.4	2.897	3.723	9.9	22.7
<b>279646</b>	2011 <i>ER</i> <sub>75</sub>		3 6.2 334°97'	1°8'	7.9 17		<b>242043</b>	2002 <i>RA</i> <sub>122</sub>		3 6.3 179°26'	4°0'	1.4 18	
2 1	11 28.03	- 1 48.9	1.718	2.535	15.2	20.1	2 1	11 31.24	+ 17 16.9	2.499	3.338	10.3	21.1
2 11	11 24.42	- 1 26.5	1.633	2.529	11.7	19.9	2 11	11 26.11	+ 18 14.8	2.428	3.339	7.7	20.9
2 21	11 18.61	- 0 45.1	1.570	2.523	7.6	19.6	2 21	11 19.32	+ 19 13.4	2.384	3.339	5.2	20.7
3 2	11 11.27	+ 0 11.9	1.533	2.518	3.3	19.4	3 2	11 11.44	+ 20 6.7	2.369	3.340	4.0	20.7
3 12	11 3.35	+ 1 18.4	1.523	2.513	2.7	19.3	3 12	11 3.23	+ 20 49.3	2.383	3.340	5.4	20.7
3 22	10 55.92	+ 2 26.8	1.540	2.508	6.9	19.6	3 22	10 55.48	+ 21 17.3	2.425	3.339	8.0	20.9
4 1	10 49.97	+ 3 29.4	1.583	2.504	11.2	19.8	4 1	10 48.90	+ 21 28.7	2.494	3.338	10.6	21.1
4 11	10 46.22	+ 4 20.0	1.648	2.500	15.0	20.0	4 11	10 44.02	+ 21 23.6	2.585	3.337	12.9	21.2
<b>86977</b>	2000 <i>JQ</i> <sub>17</sub>		3 6.3 266°75'	2°4'	4.3 18		<b>67377</b>	2000 <i>OW</i> <sub>1</sub>		3 6.3 36°34'	3°6'	9.8 18	
2 1	11 31.96	+ 7 23.1	1.471	2.317	15.7	19.6	2 1	11 29.93	- 6 15.1	2.154	2.935	13.7	18.7
2 11	11 27.76	+ 8 24.4	1.389	2.307	11.7	19.3	2 11	11 25.38	- 6 27.4	2.070	2.938	10.9	18.5
2 21	11 20.86	+ 9 40.4	1.331	2.296	7.0	19.0	2 21	11 19.00	- 6 23.2	2.009	2.942	7.8	18.3
3 2	11 11.99	+ 11 3.3	1.298	2.286	2.7	18.7	3 2	11 11.37	- 6 3.5	1.975	2.946	4.7	18.1
3 12	11 2.36	+ 12 22.7	1.292	2.275	4.9	18.9	3 12	11 3.33	- 5 31.5	1.968	2.950	3.7	18.1
3 22	10 53.31	+ 13 28.8	1.313	2.264	9.8	19.1	3 22	10 55.73	- 4 51.7	1.991	2.954	6.0	18.2
4 1	10 46.09	+ 14 14.9	1.357	2.254	14.5	19.3	4 1	10 49.38	- 4 9.6	2.040	2.959	9.2	18.4
4 11	10 41.58	+ 14 37.9	1.421	2.243	18.5	19.6	4 11	10 44.87	- 3 30.6	2.113	2.963	12.2	18.6
<b>343052</b>	2009 <i>BS</i> <sub>181</sub>		3 6.3 31°95'	3°2'	10.1 18		<b>234106</b>	1999 <i>VU</i> <sub>39</sub>		3 6.3 102°70'	1°3'	7.6 18	
2 1	11 24.97	- 9 11.0	1.965	2.746	14.8	20.3	2 1	11 29.48	- 1 6.1	2.009	2.817	13.6	20.3
2 11	11 21.80	- 8 15.8	1.887	2.755	11.8	20.1	2 11	11 25.11	- 0 35.4	1.932	2.823	10.4	20.1
2 21	11 16.84	- 6 56.3	1.831	2.765	8.3	19.9	2 21	11 18.85	+ 0 11.0	1.878	2.830	6.6	19.9
3 2	11 10.69	- 5 16.1	1.802	2.776	4.7	19.7	3 2	11 11.33	+ 1 9.5	1.851	2.836	2.7	19.7
3 12	11 4.18	- 3 22.3	1.801	2.786	3.3	19.6	3 12	11 3.41	+ 2 14.3	1.853	2.843	2.3	19.7
3 22	10 58.18	- 1 23.7	1.829	2.798	5.9	19.8	3 22	10 56.01	+ 3 18.9	1.884	2.849	6.2	19.9
4 1	10 53.46	+ 0 30.3	1.885	2.809	9.5	20.0	4 1	10 49.94	+ 4 17.0	1.942	2.855	9.9	20.2
4 11	10 50.58	+ 2 12.0	1.966	2.821	12.7	20.3	4 11	10 45.79	+ 5 4.1	2.023	2.861	13.1	20.4
<b>66368</b>	1999 <i>JP</i> <sub>98</sub>		3 6.3 259°80'	4°6'	1.6 18 R		<b>119022</b>	2001 <i>AU</i> <sub>46</sub>		3 6.3 124°52'	18°9'	20.8 16	
2 1	11 32.00	+ 13 4.5	1.733	2.581	13.6	19.3	2 1	11 54.00	+ 45 55.6	1.217	2.024	20.7	19.8
2 11	11 27.57	+ 14 38.0	1.644	2.562	10.1	19.1	2 11	11 45.37	+ 48 6.2	1.199	2.034	19.4	19.7
2 21	11 20.68	+ 16 21.4	1.580	2.542	6.5	18.8	2 21	11 31.81	+ 49 40.6	1.198	2.044	18.9	19.7
3 2	11 11.94	+ 18 5.3	1.544	2.522	4.6	18.7	3 2	11 15.23	+ 50 22.1	1.217	2.053	19.4	19.8
3 12	11 2.41	+ 19 38.6	1.536	2.501	6.9	18.7	3 12	10 58.51	+ 50 3.1	1.253	2.062	20.7	19.9
3 22	10 53.29	+ 20 52.3	1.555	2.480	10.8	18.9	3 22	10 44.35	+ 48 47.8	1.306	2.070	22.4	20.0
4 1	10 45.73	+ 21 40.7	1.597	2.458	14.7	19.1	4 1	10 34.47	+ 46 47.2	1.373	2.078	24.2	20.2
4 11	10 40.59	+ 22 2.6	1.660	2.435	18.2	19.3	4 11	10 29.37	+ 44 15.3	1.453	2.085	25.8	20.4
<b>154545</b>	2003 <i>GC</i> <sub>35</sub>		3 6.3 230°06'	6°8'	28.7 18		<b>417295</b>	2006 <i>BB</i> <sub>69</sub>		3 6.3 302°07'	2°7'	3.7 17	
2 1	11 35.51	+ 23 37.4	1.987	2.830	12.4	20.0	2 1	11 30.68	+ 10 32.2	1.877	2.719	13.0	20.9
2 11	11 29.75	+ 24 41.2	1.920	2.824	9.7	19.8	2 11	11 26.20	+ 11 22.2	1.800	2.716	9.6	20.7
2 21	11 21.73	+ 25 40.7	1.877	2.819	7.5	19.7	2 21	11 19.61	+ 12 19.8	1.748	2.712	5.8	20.4
3 2	11 12.18	+ 26 27.4	1.861	2.814	6.9	19.6	3 2	11 11.58	+ 13 18.3	1.724	2.709	2.8	20.2
3 12	11 2.19	+ 26 54.4	1.873	2.808	8.4	19.7	3 12	11 3.08	+ 14 10.4	1.727	2.706	4.6	20.3
3 22	10 52.85	+ 26 57.9	1.911	2.802	11.1	19.8	3 22	10 55.11	+ 14 50.1	1.759	2.703	8.4	20.6
4 1	10 45.16	+ 26 37.6	1.973	2.796	13.9	20.0	4 1	10 48.61	+ 15 13.5	1.815	2.700	12.1	20.8
4 11	10 39.78	+ 25 55.8	2.054	2.789	16.4	20.2	4 11	10 44.24	+ 15 19.1	1.893	2.697	15.2	21.0
<b>198973</b>	2005 <i>VO</i> <sub>3</sub>		3 6.3 84°31'	0°1'	6.1 18		<b>45812</b>	2000 <i>QV</i> <sub>39</sub>		3 6.3 153°20'	0°2'	6.4 18	
2 1	11 33.52	+ 2 22.2	1.369	2.204	17.3	21.2	2 1	11 32.90	+ 2 14.1	1.560	2.388	15.9	19.5
2 11	11 28.74	+ 3 6.8	1.310	2.219	12.9	21.0	2 11	11 28.18	+ 2 46.5	1.485	2.390	12.0	19.3
2 21	11 21.29	+ 4 9.6	1.272	2.233	7.8	20.7	2 21	11 20.96	+ 3 35.5	1.433	2.392	7.4	19.0
3 2	11 12.07	+ 5 23.8	1.259	2.247	2.3	20.4	3 2	11 12.02	+ 4 36.1	1.406	2.394	2.3	18.7
3 12	11 2.40	+ 6 39.7	1.273	2.261	3.3	20.5	3 12	11 2.50	+ 5 40.4	1.407	2.396	2.9	18.7
3 22	10 53.63	+ 7 47.8	1.313	2.275	8.5	20.9	3 22	10 53.64	+ 6 40.3	1.435	2.397	7.9	19.0
4 1	10 46.92	+ 8 40.7	1.378	2.289	13.2	21.2	4 1	10 46.56	+ 7 28.7	1.488	2.399	12.5	19.3
4 11	10 42.94	+ 9 14.5	1.463	2.303	17.1	21.4	4 11	10 42.00	+ 8 1.3	1.562	2.400	16.3	19.5
<b>112267</b>	2002 <i>LA</i> <sub>20</sub>		3 6.3 253°00'	0°7'	6.8 17		<b>371693</b>	2007 <i>DU</i> <sub>68</sub>		3 6.3 176°26'	0°4'	5.9 17	
2 1	11 33.09	+ 1 34.5	1.827	2.644	14.4	20.3	2 1	11 32.98	+ 5 0.9	2.208	3.026	12.2	21.6
2 11	11 28.18	+ 1 54.7	1.730	2.628	11.0	20.1	2 11	11 27.56	+ 5 25.2	2.127	3.027	9.1	21.4
2 21	11 20.95	+ 2 29.9	1.657	2.613	6.9	19.8	2 21	11 20.29	+ 5 58.9	2.070	3.029	5.5	21.1
3 2	11 12.01	+ 3 16.7	1.610	2.597	2.4	19.5	3 2	11 11.77	+ 6 38.0	2.041	3.030	1.6	20.9
3 12	11 2.35	+ 4 9.3	1.591	2.581	2.6	19.4	3 12	11 2.84	+ 7 17.6	2.043	3.030	2.5	20.9
3 22	10 53.07	+ 5 0.9	1.601	2.564	7.3	19.7	3 22	10 54.39	+ 7 52.7	2.074	3.030	6.4	21.2
4 1	10 45.26	+ 5 45.2	1.637	2.546	11.6	19.9	4 1	10 47.22	+ 8 19.3	2.132	3.030	9.9	21.4
4 11	10 39.72	+ 6 17.3	1.696	2.529	15.4	20.1	4 11	10 41.94	+ 8 34.7	2.214	3.029	12.9	21.6
<b>326335</b>	2000 <i>QF</i> <sub>63</sub>		3 6.3 185°27'	2°9'	2.7 16		<b>465687</b>	2009 <i>SC</i> <sub>236</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>325101</b>	2008 <i>DY</i> <sub>87</sub>		3 6.3 165°94	3°8/ 2.6 18			<b>377858</b>	2006 <i>BS</i> <sub>223</sub>		3 6.3 5°14	2°1/ 7.9 18		
2 1	11 36.87	+16 10.4	2.223	3.055	11.6	20.8	2 1	11 32.56	- 0 42.1	1.809	2.619	14.8	20.6
2 11	11 30.40	+16 51.3	2.153	3.060	8.7	20.6	2 11	11 27.65	- 0 52.8	1.728	2.619	11.4	20.4
2 21	11 21.97	+17 33.0	2.108	3.065	5.6	20.4	2 21	11 20.54	- 0 49.1	1.669	2.619	7.5	20.1
3 2	11 12.26	+18 9.4	2.093	3.069	3.8	20.3	3 2	11 11.90	- 0 32.8	1.637	2.620	3.5	19.9
3 12	11 2.21	+18 35.0	2.107	3.073	5.3	20.4	3 12	11 2.74	- 0 8.0	1.632	2.621	2.8	19.9
3 22	10 52.77	+18 46.1	2.151	3.075	8.3	20.6	3 22	10 54.12	+ 0 20.0	1.655	2.621	6.7	20.1
4 1	10 44.78	+18 41.0	2.221	3.077	11.3	20.8	4 1	10 47.02	+ 0 46.0	1.705	2.623	10.7	20.3
4 11	10 38.84	+18 20.4	2.313	3.079	13.9	21.0	4 11	10 42.15	+ 1 5.2	1.777	2.624	14.2	20.6
<b>170045</b>	2002 <i>VO</i> <sub>47</sub>		3 6.3 106°82	0°4/ 5.8 18			<b>372464</b>	2009 <i>SE</i> <sub>147</sub>		3 6.3 138°01	1°4/ 4.8 16		
2 1	11 29.71	+ 4 11.2	2.451	3.267	11.2	20.8	2 1	11 31.85	+ 7 14.6	2.134	2.961	12.2	21.9
2 11	11 24.89	+ 4 49.9	2.383	3.283	8.3	20.6	2 11	11 26.74	+ 7 59.4	2.063	2.970	9.0	21.7
2 21	11 18.53	+ 5 37.8	2.341	3.300	5.0	20.5	2 21	11 19.79	+ 8 52.7	2.017	2.979	5.3	21.5
3 2	11 11.21	+ 6 30.8	2.327	3.316	1.4	20.2	3 2	11 11.64	+ 9 49.3	1.999	2.987	1.8	21.3
3 12	11 3.64	+ 7 23.8	2.344	3.332	2.2	20.3	3 12	11 3.14	+10 43.0	2.011	2.995	3.2	21.4
3 22	10 56.55	+ 8 12.0	2.391	3.347	5.7	20.6	3 22	10 55.18	+11 28.4	2.052	3.002	6.9	21.7
4 1	10 50.59	+ 8 51.6	2.465	3.362	8.8	20.8	4 1	10 48.55	+12 1.5	2.120	3.009	10.3	21.9
4 11	10 46.24	+ 9 19.9	2.564	3.377	11.4	21.0	4 11	10 43.82	+12 20.3	2.210	3.016	13.3	22.1
<b>341411</b>	2007 <i>TV</i> <sub>173</sub>		3 6.3 94°84	1°9/ 4.3 17			<b>32442</b>	2000 <i>RS</i> <sub>100</sub>		3 6.3 311°03	7°9/ 14.4 18		
2 1	11 31.41	+ 9 56.3	2.247	3.078	11.5	21.1	2 1	11 29.24	-19 7.7	2.264	2.967	15.3	17.8
2 11	11 26.29	+10 29.7	2.179	3.089	8.4	20.9	2 11	11 25.05	-19 53.8	2.163	2.957	13.3	17.6
2 21	11 19.45	+11 8.7	2.138	3.100	5.0	20.7	2 21	11 18.95	-20 18.1	2.083	2.948	11.1	17.4
3 2	11 11.49	+11 48.1	2.124	3.111	2.1	20.5	3 2	11 11.44	-20 18.0	2.026	2.938	9.1	17.3
3 12	11 3.26	+12 22.9	2.141	3.122	3.5	20.7	3 12	11 3.33	-19 53.6	1.994	2.929	8.0	17.2
3 22	10 55.57	+12 48.8	2.186	3.132	6.8	20.9	3 22	10 55.51	-19 8.0	1.988	2.920	8.4	17.2
4 1	10 49.16	+13 2.9	2.258	3.143	10.0	21.1	4 1	10 48.86	-18 6.8	2.008	2.911	10.1	17.3
4 11	10 44.56	+13 4.1	2.353	3.153	12.7	21.3	4 11	10 44.07	-16 57.5	2.052	2.903	12.4	17.4
<b>56133</b>	1999 <i>CX</i> <sub>51</sub>		3 6.3 84°92	1°4/ 5.3 18			<b>36797</b>	2000 <i>SK</i> <sub>42</sub>		3 6.3 202°88	0°0/ 6.2 18		
2 1	11 38.16	+ 8 59.1	1.736	2.566	14.4	19.4	2 1	11 28.60	+ 3 16.3	2.917	3.724	9.8	20.2
2 11	11 31.71	+ 9 2.3	1.670	2.578	10.7	19.1	2 11	11 23.98	+ 3 44.7	2.825	3.720	7.3	20.0
2 21	11 22.90	+ 9 11.8	1.627	2.589	6.4	18.9	2 21	11 18.00	+ 4 21.6	2.759	3.715	4.5	19.8
3 2	11 12.56	+ 9 23.1	1.612	2.601	2.1	18.7	3 2	11 11.09	+ 5 4.1	2.722	3.710	1.4	19.6
3 12	11 1.86	+ 9 30.9	1.626	2.612	3.5	18.8	3 12	11 3.87	+ 5 48.3	2.716	3.705	1.8	19.6
3 22	10 51.98	+ 9 31.2	1.669	2.623	7.8	19.1	3 22	10 56.94	+ 6 30.4	2.741	3.699	4.9	19.8
4 1	10 43.91	+ 9 21.3	1.737	2.635	11.8	19.3	4 1	10 50.89	+ 7 6.8	2.794	3.693	7.8	20.0
4 11	10 38.32	+ 9 0.3	1.828	2.646	15.1	19.6	4 11	10 46.21	+ 7 34.7	2.873	3.687	10.3	20.2
<b>87565</b>	2000 <i>RE</i> <sub>10</sub>		3 6.3 75°71	3°5/ 2.9 18			<b>398318</b>	2011 <i>HA</i> <sub>61</sub>		3 6.3 93°28	5°5/ 29.6 17		
2 1	11 35.41	+13 4.4	1.945	2.782	12.8	19.7	2 1	11 32.30	+19 23.5	2.009	2.856	12.1	20.7
2 11	11 29.23	+14 8.4	1.908	2.820	9.3	19.6	2 11	11 27.21	+20 33.8	1.954	2.866	9.1	20.6
2 21	11 21.15	+15 15.1	1.896	2.857	5.8	19.4	2 21	11 20.11	+21 42.9	1.924	2.876	6.5	20.4
3 2	11 11.98	+16 17.0	1.913	2.893	3.5	19.4	3 2	11 11.74	+22 42.9	1.921	2.886	5.5	20.4
3 12	11 2.72	+17 7.5	1.959	2.929	5.1	19.5	3 12	11 3.05	+23 26.9	1.947	2.896	7.1	20.5
3 22	10 54.33	+17 42.2	2.033	2.964	8.3	19.8	3 22	10 55.04	+23 50.8	1.999	2.906	9.8	20.7
4 1	10 47.58	+17 59.2	2.134	2.999	11.3	20.0	4 1	10 48.54	+23 53.3	2.076	2.916	12.6	20.9
4 11	10 42.95	+17 58.9	2.256	3.033	13.9	20.3	4 11	10 44.12	+23 35.6	2.172	2.925	15.1	21.1
<b>90500</b>	2004 <i>EG</i> <sub>4</sub>		3 6.3 284°72	7°0/ 27.4 18			<b>503002</b>	2015 <i>FS</i> <sub>98</sub>		3 6.3 205°93	0°4/ 6.7 17		
2 1	11 32.76	+25 57.9	2.218	3.059	11.3	19.1	2 1	11 33.30	+ 3 33.7	2.496	3.302	11.3	21.6
2 11	11 27.60	+27 4.0	2.148	3.049	9.1	18.9	2 11	11 27.65	+ 3 32.3	2.406	3.299	8.5	21.4
2 21	11 20.40	+28 4.6	2.104	3.038	7.3	18.8	2 21	11 20.31	+ 3 39.0	2.341	3.296	5.3	21.2
3 2	11 11.83	+28 52.1	2.086	3.028	7.1	18.7	3 2	11 11.82	+ 3 51.5	2.305	3.293	1.8	20.9
3 12	11 2.82	+29 20.1	2.096	3.017	8.5	18.8	3 12	11 2.93	+ 4 6.4	2.300	3.289	2.0	20.9
3 22	10 54.36	+29 25.2	2.132	3.006	10.8	18.9	3 22	10 54.43	+ 4 20.3	2.325	3.285	5.5	21.2
4 1	10 47.33	+29 7.0	2.191	2.996	13.3	19.1	4 1	10 47.07	+ 4 30.0	2.379	3.281	8.8	21.4
4 11	10 42.36	+28 27.5	2.269	2.985	15.5	19.2	4 11	10 41.39	+ 4 33.0	2.457	3.277	11.6	21.5
<b>467891</b>	2011 <i>GN</i> <sub>63</sub>		3 6.3 268°06	0°1/ 6.1 17			<b>434502</b>	2005 <i>SR</i> <sub>77</sub>		3 6.3 225°74	1°8/ 3.9 17		
2 1	11 28.54	+ 2 19.6	2.160	2.979	12.4	21.5	2 1	11 29.98	+10 50.0	2.944	3.769	9.3	21.9
2 11	11 24.49	+ 3 10.2	2.060	2.961	9.3	21.2	2 11	11 25.02	+11 23.1	2.852	3.759	6.8	21.8
2 21	11 18.57	+ 4 15.4	1.984	2.942	5.7	21.0	2 21	11 18.64	+12 0.3	2.788	3.749	4.1	21.6
3 2	11 11.31	+ 5 30.6	1.935	2.924	1.7	20.7	3 2	11 11.31	+12 37.9	2.752	3.738	1.9	21.4
3 12	11 3.47	+ 6 49.7	1.917	2.905	2.5	20.7	3 12	11 3.63	+13 11.7	2.748	3.727	3.1	21.5
3 22	10 55.94	+ 8 5.5	1.927	2.886	6.6	20.9	3 22	10 56.26	+13 38.3	2.774	3.715	5.9	21.6
4 1	10 49.56	+ 9 11.9	1.965	2.867	10.4	21.1	4 1	10 49.79	+13 55.1	2.828	3.703	8.5	21.8
4 11	10 44.99	+10 4.1	2.026	2.847	13.7	21.3	4 11	10 44.72	+14 0.7	2.906	3.691	10.9	21.9
<b>283592</b>	2001 <i>XK</i> <sub>262</sub>		3 6.3 195°61	2°9/ 10.2 18			<b>35809</b>	1999 <i>JY</i> <sub>43</sub>		3 6.3 108°82	2°0/ 7.8 18		
2 1	11 28.23	- 8 4.6	3.076	3.830	10.6	21.9	2 1	11 34.93	- 0 41.3	1.562	2.377	16.5	18.3
2 11	11 23.67	- 7 52.1	2.976	3.827	8.5	21.8	2 11	11 29.68	- 0 41.4	1.489	2.383	12.7	18.1
2 21	11 17.79	- 7 25.8	2.900	3.824	6.1	21.6	2 21	11 21.89	- 0 24.2	1.437	2.389	8.2	17.9
3 2	11 11.01	- 6 46.8	2.853	3.820	3.8	21.4	3 2	11 12.35	+ 0 7.5	1.411	2.395	3.6	17.6
3 12	11 3.92	- 5 58.0	2.836	3.815	2.9	21.4	3 12	11 2.26	+ 0 48.0	1.412	2.401	3.0	17.6
3 22	10 57.09	- 5 3.1	2.849	3.810	4.6	21.5	3 22	10 52.88	+ 1 30.7	1.440	2.407	7.5	17.8
4 1	10 51.09	- 4 6.4	2.891	3.804	7.0	21.6	4 1	10 45.33	+ 2 8.6	1.494	2.412	11.9	18.1
4 11	10 46.38	- 3 12.2	2.960	3.798	9.4	21.8	4 11	10 40.37	+ 2 36.5	1.570	2.418	15.8	18.4
<b>113109</b>	2002 <i>RB</i> <sub>78</sub>		3 6.3 137°12	0°4/ 5.8 17			<b>272936</b>	2006 <i>BS</i> <sub>245</sub>		3 6.3 90°44	1°0/ 5.3 17		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>41876</b>	2000 <i>WB</i> <sub>101</sub>		3 6.3 125°33	2.4/ 8.3	18		<b>165447</b>	2000 <i>YV</i> <sub>108</sub>		3 6.3 97°71	1.9/ 4.7	18	
2 1	11 34.23	- 2 35.6	1.730	2.532	15.7	19.0	2 1	11 35.72	+ 7 37.3	1.666	2.500	14.8	20.7
2 11	11 28.92	- 2 28.5	1.656	2.542	12.1	18.8	2 11	11 29.92	+ 8 25.1	1.611	2.521	10.8	20.5
2 21	11 21.32	- 2 3 3	1.604	2.551	8.0	18.5	2 21	11 21.83	+ 9 22.5	1.580	2.543	6.4	20.3
3 2	11 12.16	- 1 22.9	1.578	2.560	3.8	18.3	3 2	11 12.29	+10 22.5	1.576	2.563	2.3	20.1
3 12	11 2.54	- 0 32.6	1.581	2.569	3.0	18.2	3 12	11 2.47	+11 17.3	1.600	2.584	4.0	20.2
3 22	10 53.57	+ 0 20.8	1.611	2.577	6.9	18.5	3 22	10 53.51	+12 0.5	1.653	2.604	8.2	20.5
4 1	10 46.26	+ 1 10.5	1.668	2.585	11.0	18.8	4 1	10 46.37	+12 28.0	1.731	2.623	12.1	20.8
4 11	10 41.29	+ 1 50.8	1.748	2.593	14.5	19.0	4 11	10 41.64	+12 38.4	1.830	2.642	15.4	21.1
<b>25656</b>	Bejnood		3 6.3 258°46	0°6/ 6.9	18		<b>438859</b>	2009 <i>DY</i> <sub>141</sub>		3 6.3 7°46	6°6/ 13.3	15	
2 1	11 29.43	+ 1 7 3	2.187	2.999	12.5	18.7	2 1	11 15.85	-14 39.4	1.138	1.946	21.8	19.4
2 11	11 25.09	+ 1 34.5	2.093	2.989	9.5	18.5	2 11	11 16.08	-14 9.0	1.076	1.951	18.1	19.1
2 21	11 18.91	+ 2 15.0	2.023	2.978	6.0	18.3	2 21	11 13.86	-12 55.6	1.030	1.959	13.7	18.9
3 2	11 11.44	+ 3 5 5	1.980	2.968	2.1	18.0	3 2	11 9.94	-11 0.9	1.005	1.970	9.3	18.7
3 12	11 3.47	+ 4 0 7	1.967	2.957	2.2	18.0	3 12	11 5.53	- 8 34.8	1.003	1.983	6.6	18.6
3 22	10 55.86	+ 4 55.0	1.983	2.946	6.1	18.2	3 22	11 1.85	- 5 53.3	1.024	1.999	8.3	18.7
4 1	10 49.42	+ 5 43.1	2.026	2.935	9.8	18.4	4 1	10 59.96	- 3 14.3	1.069	2.018	12.3	19.0
4 11	10 44.79	+ 6 20.6	2.093	2.924	13.0	18.6	4 11	11 0.53	- 0 53.2	1.136	2.038	16.5	19.3
<b>41214</b>	1999 <i>XZ</i> <sub>3</sub>		3 6.3 215°95	2°4/ 9.1	18		<b>2231</b>	Durrell		3 6.3 145°97	0°2/ 6.5	18	
2 1	11 29.30	- 5 11.9	2.415	3.195	12.4	19.6	2 1	11 33.28	+ 3 5 7	2.501	3.306	11.4	17.6
2 11	11 24.82	- 4 48.2	2.317	3.189	9.8	19.4	2 11	11 27.55	+ 3 24.6	2.424	3.317	8.5	17.4
2 21	11 18.67	- 4 8 1	2.243	3.182	6.7	19.2	2 21	11 20.20	+ 3 52.8	2.373	3.328	5.2	17.2
3 2	11 11.35	- 3 13.9	2.197	3.174	3.6	19.0	3 2	11 11.80	+ 4 27.0	2.350	3.338	1.7	17.0
3 12	11 3.59	- 2 9 5	2.180	3.166	2.6	18.9	3 12	11 3.10	+ 5 3 1	2.359	3.348	2.0	17.0
3 22	10 56.15	- 1 0 5	2.193	3.158	5.4	19.0	3 22	10 54.87	+ 5 36.8	2.398	3.357	5.5	17.3
4 1	10 49.78	+ 0 7 1	2.234	3.149	8.7	19.2	4 1	10 47.80	+ 6 4 5	2.465	3.365	8.7	17.5
4 11	10 45.05	+ 1 8 1	2.300	3.140	11.7	19.4	4 11	10 42.41	+ 6 23.6	2.557	3.373	11.4	17.7
<b>411698</b>	2011 <i>YM</i> <sub>53</sub>		3 6.3 61°74	0°3/ 6.5	18		<b>146478</b>	2001 <i>RJ</i> <sub>107</sub>		3 6.3 138°92	0°9/ 5.2	18	
2 1	11 32.49	+ 2 1 5	1.451	2.284	16.6	21.3	2 1	11 31.39	+ 4 51.4	2.169	2.990	12.3	21.4
2 11	11 27.86	+ 2 33.0	1.392	2.299	12.5	21.1	2 11	11 26.39	+ 5 49.3	2.098	3.002	9.1	21.2
2 21	11 20.74	+ 3 21.5	1.355	2.315	7.6	20.8	2 21	11 19.59	+ 6 58.1	2.052	3.013	5.4	21.0
3 2	11 11.98	+ 4 21.1	1.343	2.331	2.4	20.5	3 2	11 11.63	+ 8 12.3	2.035	3.024	1.6	20.8
3 12	11 2.83	+ 5 23.7	1.358	2.347	2.9	20.6	3 12	11 3.33	+ 9 25.1	2.048	3.034	2.9	20.9
3 22	10 54.54	+ 6 20.9	1.400	2.364	7.9	21.0	3 22	10 55.55	+10 30.4	2.091	3.043	6.6	21.1
4 1	10 48.15	+ 7 6 0	1.466	2.380	12.4	21.3	4 1	10 49.06	+11 23.3	2.161	3.052	10.1	21.3
4 11	10 44.32	+ 7 35.2	1.553	2.397	16.1	21.5	4 11	10 44.43	+12 1 1	2.254	3.061	13.0	21.6
<b>272545</b>	2005 <i>UB</i> <sub>362</sub>		3 6.3 64°13	1°3/ 5.2	18		<b>505230</b>	2012 <i>UE</i> <sub>29</sub>		3 6.3 177°43	3°6/ 10.5	17	
2 1	11 31.87	+ 6 34.6	1.711	2.548	14.3	21.5	2 1	11 29.59	- 8 34.4	2.583	3.342	12.3	21.9
2 11	11 27.15	+ 7 11.5	1.645	2.556	10.6	21.3	2 11	11 24.91	- 8 34.4	2.491	3.343	9.9	21.7
2 21	11 20.22	+ 7 59.1	1.601	2.565	6.3	21.1	2 21	11 18.66	- 8 18.4	2.422	3.344	7.2	21.6
3 2	11 11.82	+ 8 51.6	1.585	2.574	2.0	20.8	3 2	11 11.35	- 7 47.5	2.380	3.344	4.6	21.4
3 12	11 3.02	+ 9 41.7	1.597	2.583	3.5	20.9	3 12	11 3.67	- 7 4 4	2.367	3.345	3.6	21.3
3 22	10 54.90	+10 23.0	1.636	2.592	7.8	21.2	3 22	10 56.32	- 6 13.3	2.383	3.345	5.3	21.4
4 1	10 48.41	+10 50.9	1.700	2.601	11.8	21.4	4 1	10 50.00	- 5 19.4	2.428	3.344	8.0	21.6
4 11	10 44.20	+11 3 0	1.786	2.610	15.2	21.7	4 11	10 45.24	- 4 27.7	2.499	3.344	10.7	21.8
<b>3956</b>	Caspar		3 6.3 156°87	2°9/ 8.9	18		<b>282463</b>	2004 <i>EJ</i> <sub>59</sub>		3 6.3 330°43	5°8/ 9.9	18	
2 1	11 34.93	- 4 48.0	1.808	2.597	15.6	17.1	2 1	11 31.97	- 6 44.6	1.210	2.025	20.4	20.3
2 11	11 29.41	- 4 35.7	1.728	2.605	12.2	16.9	2 11	11 28.32	- 7 21.4	1.131	2.018	16.5	20.0
2 21	11 21.61	- 4 3 5	1.671	2.612	8.3	16.7	2 21	11 21.54	- 7 32.3	1.070	2.010	12.0	19.7
3 2	11 12.27	- 3 13.8	1.640	2.618	4.4	16.5	3 2	11 12.38	- 7 16.0	1.030	2.003	7.5	19.4
3 12	11 2.41	- 2 12.1	1.637	2.624	3.3	16.4	3 12	11 2.23	- 6 35.7	1.014	1.997	5.9	19.3
3 22	10 53.14	- 1 5 3	1.663	2.629	6.8	16.6	3 22	10 52.71	- 5 39.3	1.022	1.991	9.3	19.5
4 1	10 45.48	- 0 1 1	1.716	2.633	10.8	16.9	4 1	10 45.35	- 4 37 3	1.053	1.986	14.2	19.7
4 11	10 40.12	+ 0 54.2	1.793	2.636	14.3	17.1	4 11	10 41.17	- 3 40.5	1.103	1.982	18.7	20.0
<b>35125</b>	1992 <i>ED</i> <sub>22</sub>		3 6.3 287°88	2°9/ 3.9	18		<b>400321</b>	2007 <i>TH</i> <sub>367</sub>		3 6.3 73°73	4°8/ 2.4	18	
2 1	11 31.07	+ 8 22.3	1.440	2.291	15.7	19.0	2 1	11 34.57	+14 2 4	1.464	2.318	15.3	20.7
2 11	11 27.21	+ 9 28.2	1.358	2.278	11.7	18.8	2 11	11 29.38	+15 15.0	1.416	2.336	11.3	20.5
2 21	11 20.63	+10 48.7	1.299	2.265	7.0	18.5	2 21	11 21.63	+16 31.7	1.391	2.354	7.2	20.3
3 2	11 12.04	+12 15.2	1.265	2.252	3.1	18.2	3 2	11 12.25	+17 42.6	1.393	2.372	4.8	20.2
3 12	11 2.65	+13 36.8	1.258	2.239	5.4	18.3	3 12	11 2.57	+18 38.0	1.421	2.390	6.8	20.4
3 22	10 53.82	+14 43.4	1.276	2.226	10.3	18.5	3 22	10 53.85	+19 11.9	1.474	2.407	10.7	20.6
4 1	10 46.82	+15 28.3	1.318	2.213	15.0	18.8	4 1	10 47.17	+19 21.9	1.552	2.425	14.4	20.9
4 11	10 42.56	+15 48.5	1.379	2.201	19.0	19.0	4 11	10 43.14	+19 9 4	1.648	2.443	17.5	21.1
<b>500215</b>	2012 <i>HV</i> <sub>43</sub>		3 6.3 273°05	0°9/ 7.2	17		<b>342947</b>	2009 <i>AS</i> <sub>37</sub>		3 6.3 127°50	0°2/ 6.6	17	
2 1	11 30.35	+ 0 11.3	1.903	2.717	14.0	22.2	2 1	11 29.53	+ 2 27 0	2.308	3.121	11.9	21.5
2 11	11 26.12	+ 0 39.8	1.803	2.699	10.7	21.9	2 11	11 24.95	+ 2 55.4	2.229	3.126	8.9	21.3
2 21	11 19.72	+ 1 24.9	1.726	2.680	6.8	21.6	2 21	11 18.71	+ 3 34.8	2.174	3.131	5.5	21.1
3 2	11 11.73	+ 2 23.1	1.675	2.662	2.6	21.3	3 2	11 11.36	+ 4 21.6	2.148	3.136	1.8	20.9
3 12	11 3.06	+ 3 28.6	1.654	2.643	2.4	21.3	3 12	11 3.67	+ 5 10.9	2.152	3.141	2.1	20.9
3 22	10 54.72	+ 4 34.4	1.660	2.624	6.9	21.5	3 22	10 56.42	+ 5 57.7	2.184	3.145	5.8	21.1
4 1	10 47.72	+ 5 33.4	1.693	2.605	11.2	21.7	4 1	10 50.33	+ 6 37.4	2.245	3.150	9.1	21.4
4 11	10 42.82	+ 6 20.2	1.749	2.586	14.9	21.9	4 11	10 45.94	+ 7 6 8	2.329	3.154	12.0	21.6
<b>435923</b>	2009 <i>BQ</i> <sub>114</sub>		3 6.3 312°65	3°5/ 9.2	17		<b>360061</b>	2013 <i>AL</i> <sub>97</sub>		3 6.3 97°00	1°6/ 5.0	18	
2 1	11 33.41	-											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>472941</b>	2015 <i>GA</i> <sub>26</sub>		3 6.3 285°55	4°5/29.8	17		<b>322712</b>	2000 <i>KJ</i> <sub>13</sub>		3 6.3 318°37	6°9/29.8	17	
2 1	11 28.57	+16 48.6	2.283	3.129	10.8	21.2	2 1	11 31.54	+18 21.6	1.393	2.257	15.3	20.4
2 11	11 24.47	+18 3.7	2.197	3.112	8.1	21.0	2 11	11 27.83	+19 32.2	1.310	2.233	11.7	20.1
2 21	11 18.56	+19 22.1	2.138	3.094	5.6	20.9	2 21	11 21.17	+20 46.3	1.251	2.210	8.3	19.9
3 2	11 11.36	+20 36.5	2.106	3.077	4.5	20.8	3 2	11 12.27	+21 52.8	1.215	2.186	6.9	19.7
3 12	11 3.66	+21 39.9	2.104	3.059	6.2	20.8	3 12	11 2.44	+22 40.1	1.205	2.164	9.2	19.8
3 22	10 56.31	+22 26.8	2.130	3.042	9.0	21.0	3 22	10 53.18	+23 0.2	1.218	2.142	13.2	20.0
4 1	10 50.13	+22 54.2	2.180	3.025	11.9	21.1	4 1	10 45.90	+22 50.0	1.252	2.121	17.4	20.1
4 11	10 45.74	+23 1.3	2.251	3.007	14.5	21.3	4 11	10 41.60	+22 11.0	1.304	2.101	21.1	20.3
<b>379247</b>	2009 <i>TY</i> <sub>8</sub>		3 6.3 191°59	1°5/ 8.1	13 C		<b>366951</b>	2005 <i>WV</i> <sub>6</sub>		3 6.3 174°41	4°4/11.3	16	
2 1	11 31.07	- 2 23.4	2.608	3.393	11.5	23.1	2 1	11 31.23	-11 17.6	2.438	3.182	13.3	21.6
2 11	11 25.98	- 1 54.6	2.513	3.391	8.8	23.0	2 11	11 26.23	-11 14.7	2.346	3.185	10.9	21.4
2 21	11 19.31	- 1 12.3	2.444	3.389	5.8	22.8	2 21	11 19.52	-10 53.1	2.276	3.188	8.1	21.3
3 2	11 11.56	- 0 19.0	2.403	3.385	2.6	22.5	3 2	11 11.64	-10 13.2	2.232	3.189	5.5	21.1
3 12	11 3.41	+ 0 40.8	2.393	3.381	2.0	22.5	3 12	11 3.35	- 9 18.0	2.218	3.191	4.4	21.0
3 22	10 55.60	+ 1 42.3	2.413	3.376	5.1	22.7	3 22	10 55.44	- 8 12.4	2.233	3.191	5.9	21.1
4 1	10 48.82	+ 2 40.4	2.463	3.370	8.3	22.9	4 1	10 48.65	- 7 2.5	2.276	3.191	8.5	21.3
4 11	10 43.60	+ 3 30.8	2.538	3.364	11.1	23.0	4 11	10 43.56	- 5 54.5	2.345	3.190	11.3	21.5
<b>7132</b>	Casulli		3 6.3 332°65	2°7/ 7.7	18		<b>380048</b>	2013 <i>RN</i> <sub>68</sub>		3 6.3 119°02	1°0/ 5.3	18	
2 1	11 30.97	+ 0 52.9	1.114	1.962	19.5	16.3	2 1	11 32.76	+ 6 43.5	2.214	3.036	12.0	21.7
2 11	11 27.87	+ 0 19.4	1.030	1.943	15.2	15.9	2 11	11 27.34	+ 7 14.5	2.146	3.050	8.9	21.5
2 21	11 21.44	+ 0 3.5	0.966	1.925	10.1	15.6	2 21	11 20.14	+ 7 53.5	2.103	3.063	5.3	21.3
3 2	11 12.40	+ 0 4.3	0.923	1.908	4.5	15.2	3 2	11 11.81	+ 8 35.8	2.088	3.076	1.6	21.0
3 12	11 2.18	+ 0 17.2	0.903	1.893	3.9	15.1	3 12	11 3.19	+ 9 16.3	2.103	3.089	2.8	21.2
3 22	10 52.52	+ 0 35.5	0.907	1.879	9.6	15.4	3 22	10 55.12	+ 9 50.3	2.148	3.101	6.4	21.4
4 1	10 45.10	+ 0 51.4	0.932	1.866	15.4	15.6	4 1	10 48.37	+10 14.1	2.220	3.113	9.8	21.6
4 11	10 41.08	+ 0 57.9	0.975	1.855	20.5	15.9	4 11	10 43.47	+10 25.9	2.315	3.125	12.6	21.8
<b>497851</b>	2006 <i>UE</i> <sub>94</sub>		3 6.3 200°72	0°2/ 6.5	17		<b>352129</b>	2007 <i>GO</i> <sub>62</sub>		3 6.3 245°20	4°6/ 2.3	18	
2 1	11 28.20	+ 2 23.1	2.774	3.581	10.3	22.3	2 1	11 34.98	+13 32.3	1.642	2.488	14.3	21.0
2 11	11 23.77	+ 2 56.7	2.684	3.578	7.7	22.2	2 11	11 29.92	+14 44.4	1.558	2.474	10.7	20.7
2 21	11 17.93	+ 3 40.1	2.619	3.575	4.7	22.0	2 21	11 22.20	+16 4.3	1.498	2.460	6.9	20.4
3 2	11 11.14	+ 4 30.1	2.583	3.571	1.5	21.7	3 2	11 12.55	+17 22.8	1.465	2.445	4.6	20.3
3 12	11 4.01	+ 5 22.5	2.578	3.567	1.8	21.7	3 12	11 2.11	+18 29.7	1.460	2.429	6.7	20.4
3 22	10 57.19	+ 6 12.9	2.603	3.562	5.1	22.0	3 22	10 52.20	+19 17.2	1.481	2.413	10.8	20.5
4 1	10 51.30	+ 6 57.2	2.657	3.558	8.1	22.1	4 1	10 44.04	+19 40.9	1.527	2.396	14.8	20.7
4 11	10 46.81	+ 7 32.4	2.735	3.553	10.7	22.3	4 11	10 38.50	+19 40.2	1.591	2.378	18.3	20.9
<b>30414</b>	Pistacchi		3 6.3 137°86	1°1/ 5.3	18		<b>289125</b>	2004 <i>UV</i> <sub>2</sub>		3 6.3 204°77	3°2/ 3.2	18	
2 1	11 31.92	+ 5 51.3	1.851	2.681	13.7	19.5	2 1	11 33.36	+10 6.0	1.772	2.612	13.8	20.6
2 11	11 27.12	+ 6 33.5	1.777	2.685	10.1	19.2	2 11	11 28.40	+11 21.1	1.694	2.608	10.1	20.4
2 21	11 20.20	+ 7 26.9	1.727	2.690	6.0	19.0	2 21	11 21.11	+12 46.3	1.640	2.604	6.2	20.1
3 2	11 11.85	+ 8 25.9	1.705	2.693	1.9	18.7	3 2	11 12.17	+14 13.4	1.614	2.598	3.3	19.9
3 12	11 3.07	+ 9 23.5	1.711	2.697	3.3	18.8	3 12	11 2.65	+15 33.1	1.617	2.593	5.3	20.0
3 22	10 54.87	+10 13.2	1.745	2.701	7.5	19.1	3 22	10 53.68	+16 37.4	1.648	2.586	9.3	20.3
4 1	10 48.17	+10 50.1	1.806	2.704	11.4	19.3	4 1	10 46.30	+17 21.3	1.703	2.579	13.2	20.5
4 11	10 43.62	+11 11.3	1.888	2.707	14.7	19.6	4 11	10 41.25	+17 43.1	1.780	2.572	16.5	20.7
<b>96994</b>	1999 <i>TB</i> <sub>220</sub>		3 6.3 296°08	4°5/10.6	18		<b>105744</b>	2000 <i>SR</i> <sub>91</sub>		3 6.3 234°41	4°7/11.8	18	
2 1	11 29.05	- 8 51.6	1.917	2.694	15.3	19.4	2 1	11 29.39	-12 8.6	2.658	3.395	12.5	20.0
2 11	11 25.09	- 8 54.2	1.823	2.686	12.4	19.2	2 11	11 24.83	-12 22.8	2.555	3.386	10.4	19.8
2 21	11 19.06	- 8 35.4	1.751	2.678	9.1	19.0	2 21	11 18.67	-12 20.3	2.474	3.378	8.0	19.7
3 2	11 11.54	- 7 55.7	1.703	2.670	5.8	18.8	3 2	11 11.40	-12 0.7	2.420	3.369	5.7	19.5
3 12	11 3.43	- 6 58.7	1.682	2.662	4.5	18.6	3 12	11 3.67	-11 25.9	2.394	3.360	4.7	19.4
3 22	10 55.71	- 5 50.4	1.689	2.654	6.7	18.8	3 22	10 56.22	-10 39.5	2.397	3.350	5.8	19.5
4 1	10 49.33	- 4 38.6	1.722	2.646	10.2	19.0	4 1	10 49.73	- 9 46.2	2.427	3.341	8.2	19.6
4 11	10 45.00	- 3 30.6	1.779	2.638	13.7	19.1	4 11	10 44.78	- 8 51.7	2.484	3.331	10.7	19.8
<b>191931</b>	2005 <i>TU</i> <sub>99</sub>		3 6.3 223°84	0°4/ 6.0	18		<b>435984</b>	2009 <i>EA</i> <sub>5</sub>		3 6.3 329°06	2°6/ 3.9	17	
2 1	11 36.46	+ 4 26.2	1.636	2.461	15.4	20.7	2 1	11 31.65	+12 4.0	2.090	2.929	12.0	20.8
2 11	11 30.94	+ 4 49.2	1.549	2.453	11.6	20.4	2 11	11 26.76	+12 29.7	2.010	2.923	8.9	20.5
2 21	11 22.77	+ 5 25.8	1.484	2.445	7.1	20.1	2 21	11 19.93	+12 59.5	1.955	2.917	5.4	20.3
3 2	11 12.71	+ 6 11.3	1.447	2.435	2.1	19.8	3 2	11 11.78	+13 28.5	1.927	2.912	2.7	20.1
3 12	11 1.89	+ 6 58.7	1.437	2.425	3.1	19.8	3 12	11 3.20	+13 51.2	1.928	2.907	4.2	20.2
3 22	10 51.61	+ 7 40.8	1.455	2.415	8.2	20.1	3 22	10 55.12	+14 3.5	1.957	2.902	7.7	20.4
4 1	10 43.08	+ 8 11.7	1.499	2.404	12.8	20.3	4 1	10 48.38	+14 2.6	2.013	2.897	11.1	20.6
4 11	10 37.16	+ 8 27.8	1.564	2.392	16.8	20.6	4 11	10 43.60	+13 47.7	2.090	2.893	14.0	20.8
<b>413201</b>	2003 <i>AB</i> <sub>79</sub>		3 6.3 85°26	1°3/ 7.4	18		<b>114005</b>	2002 <i>UQ</i> <sub>36</sub>		3 6.3 153°74	1°1/ 5.1	18 R	
2 1	11 31.47	- 0 18.9	1.750	2.566	15.0	21.2	2 1	11 30.19	+ 6 59.2	2.319	3.145	11.4	20.4
2 11	11 26.86	+ 0 2.8	1.677	2.573	11.4	21.0	2 11	11 25.46	+ 7 34.4	2.241	3.147	8.4	20.2
2 21	11 20.07	+ 0 41.2	1.626	2.580	7.3	20.7	2 21	11 19.04	+ 8 17.5	2.188	3.150	5.0	20.0
3 2	11 11.82	+ 1 32.2	1.602	2.588	2.9	20.5	3 2	11 11.49	+ 9 4.1	2.164	3.152	1.6	19.8
3 12	11 3.12	+ 2 29.8	1.605	2.595	2.5	20.5	3 12	11 3.60	+ 9 49.0	2.170	3.155	2.8	19.9
3 22	10 55.03	+ 3 26.8	1.637	2.602	6.8	20.8	3 22	10 56.15	+10 27.5	2.204	3.157	6.4	20.1
4 1	10 48.51	+ 4 16.8	1.694	2.610	10.9	21.0	4 1	10 49.87	+10 55.7	2.266	3.159	9.6	20.3
4 11	10 44.20	+ 4 54.9	1.774	2.617	14.5	21.2	4 11	10 45.32	+11 11.6	2.351	3.160	12.5	20.5
<b>297458</b>	2000 <i>SO</i> <sub>290</sub>		3 6.3 224°35	3°0/10.5	17		<b>148696</b>	2001 <i>SS</i> <sub>260</sub>		3 6.3 147°13	0°4/ 6.7	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>61139</b>	2000 <i>NO</i> <sub>5</sub>		3 6.3 168°68	0°4/ 5.9	18		<b>384591</b>	2010 <i>LR</i> <sub>14</sub>		3 6.3 242°33	4°2/29.9	17	
2 1	11 33.59	+ 3 19.8	2.045	2.860	13.2	20.1	2 1	11 29.23	+17 8.6	2.495	3.337	10.2	20.8
2 11	11 28.19	+ 4 9.7	1.965	2.865	9.8	19.9	2 11	11 24.78	+18 17.1	2.416	3.329	7.6	20.6
2 21	11 20.80	+ 5 12.6	1.911	2.870	5.9	19.7	2 21	11 18.67	+19 27.5	2.364	3.320	5.2	20.4
3 2	11 12.05	+ 6 23.3	1.885	2.873	1.7	19.4	3 2	11 11.43	+20 33.3	2.341	3.311	4.2	20.3
3 12	11 2.87	+ 7 35.0	1.889	2.876	2.7	19.5	3 12	11 3.79	+21 28.6	2.347	3.301	5.7	20.4
3 22	10 54.21	+ 8 40.9	1.922	2.879	6.8	19.7	3 22	10 56.52	+22 8.8	2.381	3.292	8.3	20.5
4 1	10 46.93	+ 9 35.4	1.983	2.880	10.6	20.0	4 1	10 50.35	+22 31.4	2.440	3.282	10.9	20.7
4 11	10 41.68	+10 15.2	2.068	2.880	13.8	20.2	4 11	10 45.83	+22 35.9	2.521	3.272	13.3	20.9
<b>328347</b>	2008 <i>KJ</i> <sub>23</sub>		3 6.3 238°92	2°7/ 9.2	17		<b>159471</b>	2000 <i>QH</i> <sub>122</sub>		3 6.3 156°95	2°5/ 8.9	18	
2 1	11 30.44	- 5 52.7	2.323	3.100	13.0	22.1	2 1	11 32.61	- 5 42.2	2.001	2.784	14.6	20.4
2 11	11 25.84	- 5 30.4	2.216	3.085	10.3	21.9	2 11	11 27.52	- 5 7.1	1.919	2.792	11.4	20.2
2 21	11 19.41	- 4 50.5	2.132	3.068	7.1	21.7	2 21	11 20.42	- 4 11.9	1.860	2.800	7.7	20.0
3 2	11 11.66	- 3 54.5	2.076	3.052	3.9	21.5	3 2	11 11.97	- 2 59.5	1.828	2.807	4.0	19.8
3 12	11 3.35	- 2 46.5	2.049	3.034	2.9	21.4	3 12	11 3.08	- 1 36.1	1.826	2.813	2.9	19.8
3 22	10 55.31	- 1 32.5	2.052	3.017	5.7	21.5	3 22	10 54.72	- 0 9.0	1.853	2.818	6.2	20.0
4 1	10 48.37	- 0 18.8	2.083	2.998	9.2	21.7	4 1	10 47.75	+ 1 14.0	1.908	2.823	9.9	20.2
4 11	10 43.16	+ 0 48.4	2.139	2.979	12.4	21.9	4 11	10 42.81	+ 2 26.5	1.987	2.826	13.3	20.4
<b>30344</b>	2000 <i>JG</i> <sub>36</sub>		3 6.3 259°95	8°3/27.0	18		<b>520628</b>	2014 <i>OY</i> <sub>414</sub>		3 6.3 299°20	4°7/ 2.3	18	
2 1	11 37.47	+27 24.9	1.946	2.784	12.8	19.1	2 1	11 31.83	+13 0.6	1.475	2.331	15.1	21.0
2 11	11 31.52	+28 39.9	1.872	2.768	10.4	18.9	2 11	11 27.69	+14 15.8	1.403	2.324	11.2	20.8
2 21	11 23.04	+29 48.2	1.822	2.751	8.7	18.8	2 21	11 20.88	+15 39.4	1.353	2.318	7.1	20.5
3 2	11 12.78	+30 40.3	1.798	2.734	8.5	18.7	3 2	11 12.17	+17 1.4	1.330	2.311	4.7	20.3
3 12	11 1.90	+31 7.9	1.801	2.716	10.1	18.8	3 12	11 2.80	+18 10.9	1.333	2.304	6.9	20.5
3 22	10 51.64	+31 7.3	1.830	2.698	12.6	18.9	3 22	10 54.09	+18 59.7	1.362	2.298	11.1	20.7
4 1	10 43.12	+30 38.3	1.880	2.680	15.3	19.1	4 1	10 47.25	+19 23.3	1.414	2.292	15.2	20.9
4 11	10 37.14	+29 44.5	1.950	2.661	17.8	19.2	4 11	10 43.11	+19 21.4	1.484	2.286	18.8	21.1
<b>29433</b>	1997 <i>HC</i> <sub>3</sub>		3 6.3 10°26	0°9/ 7.5	18		<b>142736</b>	2002 <i>TJ</i> <sub>289</sub>		3 6.3 131°53	0°7/ 5.7	18	
2 1	11 25.30	- 0 7.6	2.889	3.691	10.1	18.6	2 1	11 35.50	+ 5 57.1	1.983	2.803	13.3	19.7
2 11	11 21.58	+ 0 17.5	2.802	3.691	7.6	18.4	2 11	11 29.58	+ 6 19.8	1.912	2.815	9.8	19.5
2 21	11 16.58	+ 0 53.1	2.741	3.692	4.9	18.2	2 21	11 21.62	+ 6 51.6	1.866	2.826	5.9	19.3
3 2	11 10.74	+ 1 36.6	2.708	3.693	1.9	18.0	3 2	11 12.32	+ 7 28.2	1.849	2.837	1.8	19.0
3 12	11 4.63	+ 2 24.2	2.705	3.694	1.7	18.0	3 12	11 2.66	+ 8 3.7	1.860	2.848	2.8	19.1
3 22	10 58.81	+ 3 11.8	2.732	3.696	4.6	18.2	3 22	10 53.65	+ 8 33.4	1.901	2.857	6.9	19.4
4 1	10 53.85	+ 3 55.7	2.787	3.697	7.4	18.4	4 1	10 46.15	+ 8 53.2	1.969	2.867	10.6	19.6
4 11	10 50.18	+ 4 32.6	2.868	3.699	9.9	18.6	4 11	10 40.76	+ 9 1.0	2.060	2.876	13.7	19.9
<b>244380</b>	2002 <i>PW</i> <sub>14</sub>		3 6.3 201°11	1°0/ 7.3	17		<b>16342</b>	2271 <i>T</i> <sub>-3</sub>		3 6.3 136°84	0°5/ 6.9	18	R
2 1	11 32.49	- 0 15.6	2.091	2.895	13.3	21.9	2 1	11 29.98	+ 1 34.7	2.298	3.108	12.1	18.8
2 11	11 27.43	+ 0 14.6	2.001	2.891	10.2	21.7	2 11	11 25.33	+ 2 0.9	2.218	3.113	9.1	18.6
2 21	11 20.38	+ 1 0.0	1.934	2.887	6.5	21.4	2 21	11 18.98	+ 2 38.7	2.163	3.118	5.6	18.4
3 2	11 11.95	+ 1 56.9	1.896	2.881	2.5	21.2	3 2	11 11.52	+ 3 24.8	2.136	3.123	1.9	18.2
3 12	11 3.01	+ 2 59.9	1.886	2.876	2.3	21.1	3 12	11 3.70	+ 4 14.3	2.139	3.128	2.0	18.2
3 22	10 54.48	+ 4 2.5	1.907	2.869	6.3	21.4	3 22	10 56.33	+ 5 2.0	2.171	3.133	5.7	18.4
4 1	10 47.25	+ 4 58.9	1.954	2.862	10.1	21.6	4 1	10 50.12	+ 5 43.3	2.230	3.137	9.1	18.6
4 11	10 41.99	+ 5 44.3	2.026	2.855	13.5	21.8	4 11	10 45.63	+ 6 14.8	2.314	3.141	12.0	18.8
<b>210497</b>	1998 <i>HH</i> <sub>5</sub>		3 6.3 339°63	3°1/ 4.0	18		<b>258843</b>	2002 <i>PB</i> <sub>63</sub>		3 6.3 220°10	0°0/ 6.2	16	
2 1	11 28.59	+ 8 55.9	1.191	2.058	17.2	20.0	2 1	11 33.25	+ 3 9.6	2.146	2.958	12.7	22.4
2 11	11 25.75	+ 9 47.4	1.119	2.046	12.8	19.7	2 11	11 28.00	+ 3 43.9	2.051	2.948	9.6	22.1
2 21	11 19.92	+10 53.1	1.067	2.036	7.8	19.3	2 21	11 20.77	+ 4 30.6	1.980	2.938	5.9	21.9
3 2	11 11.90	+12 4.2	1.039	2.026	3.4	19.0	3 2	11 12.11	+ 5 25.7	1.938	2.926	1.8	21.6
3 12	11 3.06	+13 9.0	1.034	2.017	5.8	19.2	3 12	11 2.89	+ 6 23.3	1.925	2.914	2.5	21.6
3 22	10 54.93	+13 57.4	1.054	2.010	11.1	19.4	3 22	10 54.04	+ 7 17.6	1.943	2.901	6.6	21.9
4 1	10 48.93	+14 22.7	1.095	2.004	16.1	19.7	4 1	10 46.45	+ 8 3.3	1.988	2.887	10.4	22.1
4 11	10 45.95	+14 22.7	1.154	1.999	20.4	19.9	4 11	10 40.81	+ 8 36.4	2.056	2.873	13.7	22.2
<b>33072</b>	1997 <i>WO</i> <sub>12</sub>		3 6.3 316°27	5°9/10.5	18		<b>5406</b>	Jonjoseph		3 6.3 319°40	3°8/ 9.6	18	R
2 1	11 28.10	- 8 26.6	1.280	2.090	19.7	18.1	2 1	11 28.82	- 6 12.4	1.678	2.477	16.2	16.5
2 11	11 25.44	- 8 46.3	1.187	2.069	16.2	17.8	2 11	11 25.21	- 6 12.2	1.587	2.466	13.0	16.2
2 21	11 19.84	- 8 37.6	1.111	2.049	12.0	17.5	2 21	11 19.29	- 5 50.1	1.517	2.456	9.2	16.0
3 2	11 11.94	- 7 58.5	1.058	2.029	7.7	17.2	3 2	11 11.70	- 5 7.0	1.471	2.446	5.3	15.7
3 12	11 2.92	- 6 52.4	1.027	2.010	6.0	17.0	3 12	11 3.42	- 4 7.6	1.452	2.437	4.0	15.6
3 22	10 54.29	- 5 27.7	1.021	1.991	9.1	17.2	3 22	10 55.57	- 2 58.8	1.459	2.428	7.2	15.8
4 1	10 47.55	- 3 56.5	1.037	1.973	14.0	17.4	4 1	10 49.24	- 1 49.2	1.492	2.419	11.3	16.0
4 11	10 43.80	- 2 31.2	1.073	1.957	18.8	17.6	4 11	10 45.20	- 0 46.8	1.548	2.411	15.2	16.2
<b>382372</b>	2013 <i>TU</i> <sub>102</sub>		3 6.3 162°85	2°2/ 4.2	17		<b>208214</b>	2000 <i>SQ</i> <sub>88</sub>		3 6.3 204°06	3°1/ 3.5	18	
2 1	11 32.77	+10 16.1	2.123	2.956	12.1	21.6	2 1	11 34.39	+10 49.4	1.852	2.689	13.4	20.5
2 11	11 27.52	+10 52.2	2.048	2.958	8.9	21.4	2 11	11 29.09	+11 50.0	1.773	2.685	9.9	20.2
2 21	11 20.36	+11 34.1	1.998	2.960	5.4	21.2	2 21	11 21.51	+12 58.7	1.718	2.681	6.0	20.0
3 2	11 11.93	+12 16.6	1.976	2.962	2.3	21.0	3 2	11 12.34	+14 8.2	1.691	2.676	3.1	19.8
3 12	11 3.11	+12 54.0	1.984	2.964	3.8	21.1	3 12	11 2.61	+15 10.3	1.694	2.670	5.0	19.9
3 22	10 54.82	+13 21.6	2.020	2.966	7.4	21.3	3 22	10 53.42	+15 58.4	1.724	2.663	8.9	20.1
4 1	10 47.89	+13 36.1	2.083	2.967	10.8	21.5	4 1	10 45.79	+16 28.1	1.779	2.656	12.7	20.3
4 11	10 42.90	+13 36.3	2.169	2.968	13.7	21.7	4 11	10 40.44	+16 38.2	1.856	2.649	15.9	20.5
<b>318708</b>	2005 <i>QM</i> <sub>118</sub>		3 6.3 292°69	0°0/ 6.1	17		<b>79702</b>	1998 <i>SW</i> <sub>76</sub>		3 6.3 264°12	3°5/ 8.9	18	

EPHEMERIDES

3 6.3

3 6.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>320687</b>	2008 <i>CK</i> <sub>214</sub>		3 6.3 293°88	2°2/ 4.4	17		<b>19656</b>	Simpkins		3 6.3 303°89	2°3/ 7.9	18	
2 1	11 30.37	+ 7 42.7	1.651	2.495	14.4	20.9	2 1	11 33.83	- 0 27.3	1.477	2.298	17.0	18.5
2 11	11 26.45	+ 8 36.0	1.561	2.477	10.7	20.6	2 11	11 29.24	- 0 39.2	1.391	2.289	13.2	18.2
2 21	11 20.10	+ 9 42.4	1.495	2.460	6.5	20.3	2 21	11 21.91	- 0 34.0	1.326	2.279	8.7	17.9
3 2	11 11.96	+10 54.9	1.454	2.442	2.5	20.0	3 2	11 12.55	- 0 13.4	1.286	2.270	3.9	17.6
3 12	11 3.07	+12 4.9	1.441	2.424	4.4	20.1	3 12	11 2.36	+ 0 17.6	1.272	2.261	3.2	17.5
3 22	10 54.62	+13 4.0	1.455	2.407	9.0	20.3	3 22	10 52.72	+ 0 52.6	1.284	2.252	8.0	17.8
4 1	10 47.73	+13 45.9	1.494	2.390	13.4	20.5	4 1	10 44.92	+ 1 24.4	1.321	2.244	12.8	18.0
4 11	10 43.25	+14 7.3	1.552	2.373	17.3	20.7	4 11	10 39.84	+ 1 47.2	1.379	2.236	17.1	18.2
<b>595</b>	Polyxena		3 6.3 219°54	5°2/29.5	18 A		<b>244835</b>	2003 <i>UG</i> <sub>62</sub>		3 6.3 157°68	3°4/ 3.0	18	
2 1	11 33.94	+22 38.1	2.545	3.380	10.2	13.2	2 1	11 33.42	+11 27.4	1.832	2.672	13.3	20.7
2 11	11 28.17	+23 19.7	2.474	3.377	7.9	13.1	2 11	11 28.30	+12 38.3	1.763	2.678	9.8	20.5
2 21	11 20.66	+23 57.5	2.429	3.373	5.9	12.9	2 21	11 20.97	+13 56.4	1.720	2.682	6.0	20.3
3 2	11 12.03	+24 26.0	2.413	3.370	5.2	12.9	3 2	11 12.18	+15 13.7	1.704	2.687	3.5	20.1
3 12	11 3.08	+24 40.4	2.426	3.366	6.4	13.0	3 12	11 2.93	+16 21.9	1.717	2.691	5.3	20.3
3 22	10 54.64	+24 38.0	2.466	3.363	8.7	13.1	3 22	10 54.31	+17 14.2	1.758	2.694	9.0	20.5
4 1	10 47.45	+24 18.2	2.532	3.359	11.1	13.2	4 1	10 47.27	+17 46.7	1.825	2.697	12.6	20.7
4 11	10 42.06	+23 42.3	2.620	3.355	13.2	13.4	4 11	10 42.48	+17 58.8	1.912	2.700	15.7	20.9
<b>312113</b>	2007 <i>TG</i> <sub>173</sub>		3 6.3 62°90	0°3/ 6.6	18		<b>107662</b>	2001 <i>FG</i> <sub>2</sub>		3 6.3 343°02	6°5/10.8	18	
2 1	11 33.71	+ 1 57.8	1.387	2.220	17.2	21.1	2 1	11 26.58	- 8 32.8	1.203	2.019	20.4	18.8
2 11	11 28.83	+ 2 29.9	1.334	2.242	12.9	20.8	2 11	11 24.32	- 9 7.4	1.121	2.006	16.7	18.6
2 21	11 21.37	+ 3 19.2	1.303	2.263	7.9	20.6	2 21	11 19.14	- 9 13.7	1.058	1.995	12.5	18.3
3 2	11 12.27	+ 4 19.8	1.296	2.285	2.5	20.3	3 2	11 11.74	- 8 49.6	1.015	1.984	8.3	18.0
3 12	11 2.83	+ 5 22.9	1.317	2.306	3.0	20.4	3 12	11 3.40	- 7 58.4	0.995	1.975	6.5	17.9
3 22	10 54.36	+ 6 19.9	1.363	2.328	8.1	20.8	3 22	10 55.61	- 6 48.1	0.997	1.968	9.3	18.0
4 1	10 47.90	+ 7 4.4	1.435	2.350	12.6	21.1	4 1	10 49.82	- 5 30.4	1.022	1.962	13.8	18.2
4 11	10 44.10	+ 7 32.3	1.527	2.371	16.3	21.4	4 11	10 47.04	- 4 17.3	1.067	1.957	18.3	18.4
<b>238358</b>	2004 <i>CP</i> <sub>7</sub>		3 6.3 30°08	1°4/ 5.0	18		<b>184</b>	Dejopeja		3 6.3 345°35	0°1/ 6.5	18	
2 1	11 29.12	+ 6 47.0	1.677	2.520	14.3	19.3	2 1	11 28.77	+ 3 8.5	2.171	2.991	12.3	13.1
2 11	11 25.14	+ 7 27.5	1.617	2.532	10.5	19.1	2 11	11 24.58	+ 3 31.2	2.087	2.988	9.2	12.9
2 21	11 19.04	+ 8 18.6	1.580	2.545	6.2	18.9	2 21	11 18.61	+ 4 5.0	2.028	2.986	5.7	12.7
3 2	11 11.56	+ 9 14.1	1.570	2.558	2.0	18.7	3 2	11 11.45	+ 4 46.3	1.996	2.984	1.8	12.4
3 12	11 3.74	+10 6.5	1.587	2.572	3.6	18.8	3 12	11 3.87	+ 5 30.2	1.993	2.983	2.2	12.4
3 22	10 56.60	+10 49.5	1.631	2.587	7.8	19.1	3 22	10 56.72	+ 6 11.4	2.019	2.981	6.1	12.7
4 1	10 51.06	+11 18.4	1.699	2.602	11.7	19.3	4 1	10 50.76	+ 6 45.3	2.072	2.980	9.7	12.9
4 11	10 47.70	+11 31.0	1.790	2.618	15.0	19.6	4 11	10 46.58	+ 7 8.7	2.148	2.979	12.7	13.1
<b>253098</b>	2002 <i>TH</i> <sub>286</sub>		3 6.3 58°30	1°9/ 4.9	18		<b>445909</b>	2012 <i>XN</i> <sub>32</sub>		3 6.3 16°53	1°0/ 5.6	17	
2 1	11 37.03	+ 8 35.6	1.440	2.282	16.2	20.1	2 1	11 30.71	+ 4 46.0	1.061	1.922	19.3	21.1
2 11	11 31.07	+ 9 3.1	1.396	2.310	11.9	19.9	2 11	11 27.44	+ 5 20.1	1.002	1.925	14.4	20.8
2 21	11 22.60	+ 9 39.2	1.375	2.338	7.0	19.7	2 21	11 20.96	+ 6 13.1	0.963	1.929	8.7	20.5
3 2	11 12.61	+10 17.0	1.379	2.367	2.5	19.4	3 2	11 12.25	+ 7 17.2	0.945	1.935	2.6	20.2
3 12	11 2.45	+10 48.9	1.411	2.395	4.1	19.6	3 12	11 2.88	+ 8 21.1	0.952	1.941	4.2	20.3
3 22	10 53.38	+11 9.5	1.469	2.424	8.7	19.9	3 22	10 54.49	+ 9 14.2	0.982	1.948	10.2	20.7
4 1	10 46.42	+11 15.6	1.552	2.452	12.8	20.3	4 1	10 48.49	+ 9 48.6	1.034	1.955	15.6	21.0
4 11	10 42.14	+11 6.3	1.656	2.481	16.1	20.5	4 11	10 45.73	+10 0.7	1.103	1.964	20.1	21.3
<b>312582</b>	2009 <i>HN</i> <sub>80</sub>		3 6.3 93°70	2°7/ 3.9	18		<b>406063</b>	2006 <i>UM</i> <sub>73</sub>		3 6.3 63°20	0°3/ 6.6	18	
2 1	11 31.37	+ 8 17.0	1.583	2.429	14.8	20.7	2 1	11 35.68	+ 2 43.9	1.513	2.340	16.4	21.7
2 11	11 27.06	+ 9 26.1	1.516	2.433	10.9	20.4	2 11	11 30.02	+ 3 2.2	1.464	2.368	12.2	21.5
2 21	11 20.34	+10 47.0	1.471	2.436	6.5	20.2	2 21	11 21.97	+ 3 34.9	1.437	2.396	7.5	21.3
3 2	11 11.99	+12 11.4	1.454	2.440	2.8	19.9	3 2	11 12.45	+ 4 16.7	1.436	2.424	2.4	21.1
3 12	11 3.14	+13 29.5	1.463	2.444	4.9	20.1	3 12	11 2.70	+ 5 0.7	1.462	2.452	2.8	21.2
3 22	10 54.96	+14 33.0	1.500	2.448	9.2	20.3	3 22	10 53.93	+ 5 40.2	1.516	2.479	7.5	21.5
4 1	10 48.51	+15 16.4	1.561	2.451	13.3	20.6	4 1	10 47.10	+ 6 9.7	1.595	2.507	11.7	21.8
4 11	10 44.50	+15 37.9	1.643	2.455	16.8	20.8	4 11	10 42.81	+ 6 26.1	1.696	2.534	15.2	22.1
<b>367801</b>	2011 <i>AF</i> <sub>28</sub>		3 6.3 134°19	5°3/11.5	16		<b>510521</b>	2012 <i>BT</i> <sub>155</sub>		3 6.3 333°39	0°1/ 6.1	17	
2 1	11 34.97	-11 32.5	2.233	2.975	14.5	21.5	2 1	11 25.74	+ 4 2.7	2.776	3.594	10.0	21.4
2 11	11 29.12	-12 1.0	2.152	2.987	11.9	21.4	2 11	11 22.01	+ 4 31.0	2.687	3.588	7.4	21.3
2 21	11 21.34	-12 10.7	2.093	2.999	9.0	21.2	2 21	11 16.92	+ 5 7.9	2.624	3.583	4.5	21.1
3 2	11 12.27	-12 1.2	2.060	3.010	6.4	21.1	3 2	11 10.92	+ 5 50.1	2.589	3.577	1.3	20.8
3 12	11 2.78	-11 34.4	2.055	3.021	5.3	21.0	3 12	11 4.61	+ 6 33.6	2.584	3.572	1.9	20.9
3 22	10 53.77	-10 54.5	2.079	3.032	6.6	21.1	3 22	10 58.59	+ 7 14.4	2.608	3.567	5.1	21.1
4 1	10 46.09	-10 7.4	2.130	3.041	9.3	21.3	4 1	10 53.46	+ 7 48.8	2.660	3.562	8.0	21.2
4 11	10 40.35	- 9 19.2	2.207	3.051	12.0	21.5	4 11	10 49.68	+ 8 14.2	2.737	3.558	10.6	21.4
<b>422802</b>	2001 <i>XM</i> <sub>222</sub>		3 6.3 169°88	6°9/13.2	18		<b>190237</b>	2007 <i>DM</i> <sub>10</sub>		3 6.3 243°85	0°8/ 5.4	17	
2 1	11 31.71	-15 47.7	2.038	2.767	16.0	21.0	2 1	11 31.34	+ 5 18.9	2.293	3.113	11.8	21.2
2 11	11 27.01	-16 16.0	1.949	2.768	13.6	20.8	2 11	11 26.53	+ 6 0.9	2.194	3.096	8.8	21.0
2 21	11 20.22	-16 20.8	1.880	2.770	10.8	20.7	2 21	11 19.86	+ 6 53.6	2.119	3.079	5.3	20.7
3 2	11 11.96	-16 0.7	1.835	2.771	8.3	20.5	3 2	11 11.87	+ 7 52.6	2.073	3.062	1.6	20.4
3 12	11 3.15	-15 17.3	1.816	2.771	6.9	20.4	3 12	11 3.33	+ 8 52.1	2.057	3.044	2.8	20.5
3 22	10 54.77	-14 15.4	1.824	2.772	7.8	20.5	3 22	10 55.09	+ 9 46.5	2.071	3.025	6.6	20.7
4 1	10 47.76	-13 2.1	1.859	2.773	10.2	20.6	4 1	10 47.98	+10 30.8	2.112	3.006	10.2	20.9
4 11	10 42.80	-11 45.9	1.917	2.773	13.0	20.8	4 11	10 42.65	+11 1.8	2.177	2.986	13.3	21.0
<b>69857</b>	1998 <i>SG</i> <sub>57</sub>		3 6.3 103°39	1°0/ 5.3	18		<b>264603</b>	2001 <i>UD</i> <sub>86</sub>		3 6.3 204°73	2°5/ 3.8	17	
2 1	11 31.12												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>370501</b>	2003 <i>SE</i> <sub>73</sub>		3 6.3 129°43	1.4/ 5.0	17		<b>290551</b>	2005 <i>UE</i> <sub>96</sub>		3 6.3 22°38	0.7/ 7.0	17	
2 1	11 35.37	+ 9 14.6	2.307	3.128	11.6	20.8	2 1	11 29.46	+ 0 29.6	1.668	2.492	15.2	20.9
2 11	11 29.25	+ 9 29.6	2.234	3.138	8.6	20.6	2 11	11 25.56	+ 1 3.6	1.592	2.494	11.5	20.7
2 21	11 21.33	+ 9 49.7	2.188	3.149	5.1	20.4	2 21	11 19.43	+ 1 55.1	1.539	2.497	7.2	20.5
3 2	11 12.27	+10 10.7	2.171	3.158	1.8	20.2	3 2	11 11.78	+ 2 59.4	1.512	2.500	2.6	20.2
3 12	11 2.91	+10 28.5	2.184	3.168	3.0	20.3	3 12	11 3.63	+ 4 9.3	1.513	2.503	2.5	20.2
3 22	10 54.11	+10 39.4	2.227	3.177	6.5	20.5	3 22	10 56.05	+ 5 16.8	1.541	2.506	7.2	20.5
4 1	10 46.64	+10 41.0	2.298	3.186	9.7	20.8	4 1	10 50.05	+ 6 14.7	1.594	2.510	11.5	20.7
4 11	10 41.04	+10 32.1	2.392	3.194	12.5	21.0	4 11	10 46.29	+ 6 58.0	1.669	2.514	15.1	21.0
<b>36652</b>	2000 <i>QY</i> <sub>198</sub>		3 6.3 162°62	1.1/ 5.2	18		<b>496559</b>	2014 <i>WA</i> <sub>489</sub>		3 6.3 155°69	6.7/ 29.2	17	
2 1	11 31.82	+ 6 8.0	2.071	2.896	12.6	19.9	2 1	11 37.80	+24 0.7	2.023	2.861	12.4	21.1
2 11	11 26.89	+ 6 49.1	1.994	2.900	9.3	19.7	2 11	11 31.41	+24 56.2	1.963	2.864	9.7	20.9
2 21	11 20.04	+ 7 40.2	1.941	2.903	5.6	19.5	2 21	11 22.81	+25 46.2	1.927	2.868	7.4	20.7
3 2	11 11.90	+ 8 36.0	1.917	2.906	1.7	19.2	3 2	11 12.77	+26 22.8	1.919	2.872	6.7	20.7
3 12	11 3.36	+ 9 30.5	1.922	2.908	3.0	19.3	3 12	11 2.40	+26 39.7	1.939	2.875	8.1	20.8
3 22	10 55.32	+10 17.9	1.956	2.910	6.9	19.6	3 22	10 52.77	+26 34.0	1.986	2.877	10.7	21.0
4 1	10 48.62	+10 53.6	2.017	2.912	10.5	19.8	4 1	10 44.85	+26 6.0	2.057	2.880	13.4	21.1
4 11	10 43.86	+11 15.1	2.101	2.913	13.6	20.0	4 11	10 39.24	+25 18.3	2.148	2.882	15.8	21.3
<b>150981</b>	2001 <i>TX</i> <sub>220</sub>		3 6.3 34°92	0.4/ 6.7	18		<b>496247</b>	2012 <i>HV</i> <sub>68</sub>		3 6.3 61°53	12.6/ 21.2	17	
2 1	11 34.46	+ 3 42.7	1.635	2.462	15.3	19.7	2 1	11 38.28	+39 23.2	1.786	2.606	14.5	20.6
2 11	11 29.28	+ 3 42.1	1.561	2.466	11.6	19.4	2 11	11 32.42	+41 11.9	1.753	2.610	13.1	20.5
2 21	11 21.68	+ 3 53.5	1.511	2.470	7.2	19.2	2 21	11 23.68	+42 40.8	1.742	2.613	12.6	20.4
3 2	11 12.43	+ 4 13.6	1.486	2.474	2.4	18.9	3 2	11 13.06	+43 38.7	1.754	2.617	13.1	20.5
3 12	11 2.68	+ 4 36.8	1.489	2.479	2.7	18.9	3 12	11 2.06	+43 58.9	1.789	2.620	14.4	20.6
3 22	10 53.60	+ 4 57.7	1.519	2.483	7.4	19.2	3 22	10 52.15	+43 40.7	1.843	2.624	16.2	20.7
4 1	10 46.27	+ 5 11.5	1.575	2.488	11.8	19.5	4 1	10 44.52	+42 47.8	1.916	2.628	18.0	20.8
4 11	10 41.40	+ 5 14.8	1.653	2.494	15.4	19.7	4 11	10 39.84	+41 26.8	2.003	2.631	19.6	21.0
<b>327005</b>	2004 <i>RG</i> <sub>51</sub>		3 6.3 190°98	1.1/ 5.0	17		<b>140579</b>	2001 <i>TM</i> <sub>222</sub>		3 6.3 160°69	4.2/ 1.6	18	
2 1	11 31.01	+ 6 15.9	2.387	3.207	11.3	22.0	2 1	11 33.11	+15 43.4	2.179	3.018	11.6	20.2
2 11	11 26.11	+ 7 4.4	2.302	3.206	8.4	21.8	2 11	11 27.80	+16 56.5	2.113	3.025	8.6	20.0
2 21	11 19.51	+ 8 2.1	2.243	3.204	5.0	21.6	2 21	11 20.58	+18 12.0	2.073	3.030	5.7	19.8
3 2	11 11.75	+ 9 4.2	2.213	3.202	1.6	21.4	3 2	11 12.10	+19 22.7	2.062	3.035	4.2	19.8
3 12	11 3.59	+10 4.9	2.214	3.199	2.9	21.4	3 12	11 3.26	+20 21.6	2.080	3.040	5.8	19.9
3 22	10 55.83	+10 59.0	2.244	3.195	6.4	21.7	3 22	10 54.95	+21 3.6	2.126	3.044	8.8	20.1
4 1	10 49.20	+11 42.1	2.302	3.191	9.7	21.9	4 1	10 48.02	+21 26.3	2.198	3.047	11.7	20.2
4 11	10 44.27	+12 11.7	2.384	3.186	12.5	22.0	4 11	10 43.03	+21 29.8	2.291	3.050	14.2	20.4
<b>56098</b>	1999 <i>BE</i> <sub>13</sub>		3 6.3 107°75	1.4/ 7.6	18		<b>7883</b>	1993 <i>GD</i> <sub>1</sub>		3 6.3 273°65	4.5/ 2.7	18	
2 1	11 33.15	- 0 36.6	1.900	2.706	14.3	19.8	2 1	11 34.32	+13 0.6	1.516	2.367	15.1	17.5
2 11	11 27.94	- 0 17.3	1.830	2.721	10.9	19.6	2 11	11 29.72	+14 6.7	1.429	2.348	11.3	17.2
2 21	11 20.70	+ 0 17.1	1.783	2.735	7.0	19.4	2 21	11 22.30	+15 21.9	1.366	2.329	7.2	16.9
3 2	11 12.12	+ 1 3.4	1.764	2.749	2.9	19.1	3 2	11 12.76	+16 37.0	1.328	2.309	4.6	16.7
3 12	11 3.18	+ 1 55.6	1.773	2.762	2.4	19.1	3 12	11 2.30	+17 41.1	1.317	2.289	6.8	16.8
3 22	10 54.86	+ 2 47.8	1.811	2.776	6.4	19.4	3 22	10 52.35	+18 25.8	1.332	2.269	11.2	17.0
4 1	10 48.04	+ 3 33.9	1.876	2.789	10.2	19.6	4 1	10 44.22	+18 45.9	1.370	2.248	15.6	17.2
4 11	10 43.33	+ 4 9.7	1.964	2.801	13.5	19.9	4 11	10 38.89	+18 40.8	1.427	2.228	19.5	17.4
<b>31515</b>	1999 <i>CN</i> <sub>101</sub>		3 6.3 123°27	4.2/ 2.1	18		<b>127718</b>	2003 <i>EP</i> <sub>38</sub>		3 6.3 358°85	5.0/ 11.6	18	
2 1	11 31.49	+13 28.5	1.847	2.694	13.0	18.5	2 1	11 28.43	-11 55.0	1.830	2.596	16.4	19.6
2 11	11 26.87	+14 48.8	1.784	2.700	9.5	18.3	2 11	11 24.72	-11 37.5	1.743	2.596	13.4	19.4
2 21	11 20.12	+16 14.4	1.745	2.707	6.1	18.1	2 21	11 18.92	-10 53.8	1.676	2.596	10.0	19.1
3 2	11 11.96	+17 36.9	1.734	2.713	4.2	18.0	3 2	11 11.64	- 9 44.5	1.634	2.596	6.6	18.9
3 12	11 3.39	+18 47.6	1.752	2.718	6.0	18.2	3 12	11 3.83	- 8 14.7	1.618	2.596	5.0	18.8
3 22	10 55.44	+19 40.2	1.796	2.724	9.4	18.4	3 22	10 56.50	- 6 32.3	1.630	2.596	6.9	18.9
4 1	10 49.02	+20 11.3	1.865	2.729	12.8	18.6	4 1	10 50.59	- 4 47.0	1.669	2.596	10.3	19.1
4 11	10 44.77	+20 20.6	1.955	2.734	15.7	18.8	4 11	10 46.78	- 3 8.1	1.733	2.596	13.8	19.4
<b>185879</b>	2000 <i>OP</i> <sub>38</sub>		3 6.3 199°24	1.2/ 7.8	17		<b>103048</b>	1999 <i>XW</i> <sub>128</sub>		3 6.3 13°45	8.0/ 2.1	18	
2 1	11 30.08	- 2 23.7	2.550	3.338	11.6	21.1	2 1	11 36.09	+19 28.1	0.971	1.849	19.2	17.7
2 11	11 25.36	- 1 37.0	2.453	3.334	8.9	20.9	2 11	11 31.78	+20 15.6	0.923	1.852	14.7	17.5
2 21	11 19.04	- 0 35.3	2.382	3.329	5.8	20.7	2 21	11 23.73	+21 0.5	0.894	1.856	10.2	17.3
3 2	11 11.63	+ 0 38.1	2.340	3.324	2.4	20.4	3 2	11 13.16	+21 29.5	0.886	1.861	8.0	17.2
3 12	11 3.80	+ 1 58.0	2.328	3.317	1.9	20.4	3 12	11 2.03	+21 31.6	0.901	1.868	10.2	17.3
3 22	10 56.29	+ 3 18.6	2.347	3.310	5.3	20.6	3 22	10 52.31	+21 2.7	0.937	1.876	14.5	17.5
4 1	10 49.80	+ 4 34.0	2.396	3.302	8.6	20.8	4 1	10 45.51	+20 4.2	0.993	1.885	18.9	17.8
4 11	10 44.88	+ 5 39.6	2.470	3.294	11.5	21.0	4 11	10 42.42	+18 41.8	1.065	1.896	22.8	18.1
<b>341530</b>	2007 <i>TC</i> <sub>443</sub>		3 6.3 168°32	3.6/ 1.6	17		<b>33388</b>	1999 <i>CH</i> <sub>50</sub>		3 6.3 278°35	1.0/ 5.6	18	
2 1	11 30.39	+16 2.1	2.632	3.469	9.9	21.6	2 1	11 35.53	+ 6 6.5	1.594	2.427	15.4	18.4
2 11	11 25.50	+17 5.2	2.562	3.473	7.3	21.5	2 11	11 30.60	+ 6 29.3	1.493	2.402	11.6	18.1
2 21	11 19.07	+18 9.9	2.519	3.476	4.8	21.3	2 21	11 22.87	+ 7 4.9	1.414	2.376	7.1	17.8
3 2	11 11.61	+19 10.6	2.505	3.478	3.6	21.2	3 2	11 12.98	+ 7 48.6	1.361	2.350	2.2	17.4
3 12	11 3.85	+20 1.7	2.521	3.481	5.0	21.3	3 12	11 2.05	+ 8 33.0	1.336	2.323	3.6	17.4
3 22	10 56.51	+20 39.3	2.566	3.483	7.5	21.5	3 22	10 51.44	+ 9 10.8	1.338	2.296	8.9	17.6
4 1	10 50.24	+21 1.2	2.638	3.484	10.1	21.7	4 1	10 42.50	+ 9 35.7	1.364	2.269	13.9	17.8
4 11	10 45.55	+21 6.9	2.731	3.485	12.3	21.8	4 11	10 36.24	+ 9 44.0	1.412	2.241	18.2	18.0
<b>413855</b>	2006 <i>TM</i> <sub>38</sub>		3 6.3 129°92	1.4/ 7.8	18		<b>503056</b>	2015 <i>FM</i> <sub>170</sub>		3 6.4 336°03			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>50883</b>	2000 <i>GD</i> <sub>36</sub>		3 6.4 114°49'	1.8°/ 4.7 18			<b>399433</b>	2001 <i>YK</i> <sub>4</sub>		3 6.4 87°88'	0.3°/ 6.0 15		
2 1	11 35.73	+ 8 58.1	1.903	2.733	13.4	19.2	2 1	11 37.56	+ 3 13.3	2.889	3.678	10.4	24.4
2 11	11 29.84	+ 9 29.9	1.839	2.747	9.8	19.0	2 11	11 30.30	+ 4 6.3	2.842	3.728	7.6	24.3
2 21	11 21.85	+10 8.8	1.799	2.761	5.9	18.7	2 21	11 21.73	+ 5 6.9	2.824	3.778	4.6	24.1
3 2	11 12.52	+10 49.2	1.787	2.775	2.2	18.5	3 2	11 12.42	+ 6 11.0	2.837	3.825	1.3	24.0
3 12	11 2.85	+11 24.9	1.805	2.788	3.7	18.7	3 12	11 3.07	+ 7 13.7	2.884	3.871	1.9	24.1
3 22	10 53.89	+11 51.0	1.851	2.801	7.6	18.9	3 22	10 54.34	+ 8 10.9	2.964	3.916	5.0	24.3
4 1	10 46.52	+12 4.2	1.923	2.813	11.2	19.2	4 1	10 46.79	+ 8 59.1	3.075	3.959	7.6	24.6
4 11	10 41.35	+12 3.2	2.018	2.825	14.3	19.4	4 11	10 40.81	+ 9 36.5	3.211	4.001	9.9	24.8
<b>180045</b>	2003 <i>AR</i> <sub>91</sub>		3 6.4 18°63'	2.8°/ 3.8 18			<b>312224</b>	2007 <i>WM</i> <sub>60</sub>		3 6.4 257°16'	4.3°/ 2.4 16		
2 1	11 32.92	+13 1.7	2.072	2.910	12.1	19.8	2 1	11 33.15	+13 19.6	1.697	2.544	13.9	20.9
2 11	11 27.72	+13 25.6	2.000	2.912	8.9	19.6	2 11	11 28.51	+14 30.4	1.615	2.532	10.3	20.6
2 21	11 20.56	+13 52.5	1.953	2.915	5.5	19.4	2 21	11 21.38	+15 48.7	1.557	2.519	6.6	20.4
3 2	11 12.13	+14 17.3	1.934	2.917	2.9	19.3	3 2	11 12.47	+17 5.7	1.526	2.506	4.4	20.2
3 12	11 3.33	+14 34.7	1.943	2.920	4.4	19.4	3 12	11 2.87	+18 11.9	1.523	2.493	6.4	20.3
3 22	10 55.11	+14 41.0	1.981	2.923	7.7	19.6	3 22	10 53.78	+18 59.8	1.547	2.479	10.3	20.5
4 1	10 48.29	+14 34.0	2.045	2.926	11.0	19.8	4 1	10 46.34	+19 25.0	1.594	2.465	14.2	20.7
4 11	10 43.48	+14 13.4	2.131	2.930	13.9	20.0	4 11	10 41.35	+19 26.8	1.662	2.451	17.6	20.9
<b>57113</b>	2001 <i>OY</i> <sub>83</sub>		3 6.4 112°42'	4.6°/ 2.8 18			<b>85175</b>	1990 <i>RS</i>		3 6.4 140°22'	0.4°/ 6.1 18		
2 1	11 38.53	+14 30.9	1.533	2.378	15.2	19.6	2 1	11 38.30	+ 5 6.7	1.743	2.563	14.8	19.2
2 11	11 32.36	+15 29.0	1.478	2.393	11.3	19.4	2 11	11 31.99	+ 5 21.8	1.671	2.573	11.1	19.0
2 21	11 23.55	+16 30.5	1.447	2.408	7.2	19.2	2 21	11 23.29	+ 5 47.8	1.624	2.583	6.7	18.7
3 2	11 13.05	+17 26.2	1.442	2.422	4.7	19.1	3 2	11 13.01	+ 6 20.2	1.604	2.592	2.0	18.4
3 12	11 2.19	+18 7.4	1.466	2.436	6.5	19.3	3 12	11 2.27	+ 6 52.8	1.613	2.601	2.9	18.5
3 22	10 52.30	+18 28.6	1.515	2.449	10.4	19.5	3 22	10 52.27	+ 7 20.1	1.650	2.609	7.5	18.8
4 1	10 44.49	+18 28.1	1.589	2.462	14.1	19.8	4 1	10 44.03	+ 7 37.8	1.714	2.616	11.6	19.1
4 11	10 39.41	+18 7.1	1.683	2.474	17.3	20.0	4 11	10 38.25	+ 7 43.2	1.800	2.623	15.1	19.3
<b>465083</b>	2006 <i>TH</i> <sub>127</sub>		3 6.4 232°27'	1.2°/ 7.5 17			<b>283904</b>	2004 <i>DX</i> <sub>43</sub>		3 6.4 289°48'	2.4°/ 4.6 18		
2 1	11 33.73	+ 0 1.4	2.030	2.834	13.6	22.0	2 1	11 33.06	+ 7 26.5	1.308	2.160	17.0	20.6
2 11	11 28.54	+ 0 15.6	1.933	2.822	10.5	21.8	2 11	11 28.96	+ 8 18.7	1.233	2.152	12.6	20.3
2 21	11 21.24	+ 0 44.2	1.859	2.810	6.8	21.5	2 21	11 21.90	+ 9 26.1	1.179	2.145	7.6	20.0
3 2	11 12.40	+ 1 24.5	1.812	2.798	2.7	21.2	3 2	11 12.68	+10 40.4	1.150	2.138	2.8	19.6
3 12	11 2.93	+ 2 11.6	1.795	2.784	2.4	21.2	3 12	11 2.64	+11 50.8	1.146	2.131	5.0	19.8
3 22	10 53.82	+ 2 59.7	1.807	2.771	6.5	21.4	3 22	10 53.30	+12 47.4	1.168	2.123	10.3	20.0
4 1	10 46.04	+ 3 43.1	1.846	2.756	10.5	21.6	4 1	10 46.02	+13 23.2	1.213	2.117	15.3	20.3
4 11	10 40.31	+ 4 17.1	1.909	2.741	14.0	21.8	4 11	10 41.71	+13 35.6	1.276	2.110	19.5	20.5
<b>212310</b>	2005 <i>QX</i> <sub>6</sub>		3 6.4 197°97'	0.1°/ 6.6 18			<b>73001</b>	2002 <i>EP</i> <sub>25</sub>		3 6.4 286°60'	1.5°/ 5.3 17		
2 1	11 28.45	+ 2 42.9	3.082	3.885	9.5	22.0	2 1	11 36.38	+ 7 54.0	1.565	2.401	15.4	20.0
2 11	11 23.90	+ 3 11.8	2.989	3.881	7.1	21.8	2 11	11 31.30	+ 8 9.9	1.465	2.376	11.7	19.7
2 21	11 18.05	+ 3 49.0	2.923	3.878	4.4	21.7	2 21	11 23.34	+ 8 36.2	1.387	2.350	7.1	19.4
3 2	11 11.35	+ 4 32.0	2.886	3.873	1.4	21.4	3 2	11 13.17	+ 9 7.7	1.335	2.323	2.4	19.0
3 12	11 4.33	+ 5 16.9	2.880	3.869	1.7	21.4	3 12	11 1.93	+ 9 37.3	1.311	2.297	4.0	19.1
3 22	10 57.60	+ 6 0.1	2.905	3.864	4.6	21.7	3 22	10 51.04	+ 9 58.4	1.313	2.270	9.2	19.3
4 1	10 51.69	+ 6 38.2	2.959	3.858	7.4	21.8	4 1	10 41.89	+10 5.7	1.340	2.243	14.2	19.5
4 11	10 47.06	+ 7 8.4	3.038	3.852	9.8	22.0	4 11	10 35.50	+ 9 56.6	1.388	2.216	18.5	19.7
<b>152784</b>	1999 <i>RW</i> <sub>232</sub>		3 6.4 202°07'	1.5°/ 4.9 17			<b>97828</b>	2000 <i>OJ</i> <sub>61</sub>		3 6.4 132°26'	3.5°/ 3.6 18		
2 1	11 33.39	+ 8 27.7	2.216	3.042	11.9	20.0	2 1	11 37.06	+12 20.0	1.687	2.526	14.3	19.3
2 11	11 28.02	+ 8 56.0	2.133	3.039	8.8	19.8	2 11	11 31.15	+13 6.7	1.623	2.536	10.6	19.0
2 21	11 20.75	+ 9 31.2	2.074	3.036	5.3	19.5	2 21	11 22.80	+13 58.7	1.583	2.545	6.5	18.8
3 2	11 12.21	+10 8.8	2.044	3.032	1.9	19.3	3 2	11 12.86	+14 48.5	1.570	2.554	3.5	18.7
3 12	11 3.23	+10 43.6	2.044	3.028	3.2	19.4	3 12	11 2.50	+15 28.5	1.586	2.562	5.3	18.8
3 22	10 54.70	+11 11.0	2.073	3.024	6.9	19.6	3 22	10 52.93	+15 53.0	1.629	2.570	9.2	19.0
4 1	10 47.45	+11 27.4	2.130	3.019	10.3	19.8	4 1	10 45.19	+15 59.4	1.697	2.577	13.0	19.3
4 11	10 42.09	+11 31.2	2.209	3.014	13.3	20.0	4 11	10 39.96	+15 47.5	1.786	2.584	16.2	19.5
<b>431245</b>	2006 <i>TX</i> <sub>57</sub>		3 6.4 195°85'	6.9°/26.2 17			<b>28308</b>	1999 <i>CA</i> <sub>81</sub>		3 6.4 17°28'	0.7°/ 7.1 18		
2 1	11 37.65	+32 27.2	2.948	3.760	9.6	21.5	2 1	11 26.00	- 2 35.8	1.484	2.310	16.7	17.8
2 11	11 30.81	+33 18.0	2.886	3.757	8.1	21.3	2 11	11 23.24	- 1 14.5	1.410	2.313	12.7	17.5
2 21	11 22.26	+33 59.4	2.851	3.754	7.1	21.3	2 21	11 18.16	+ 0 33.1	1.359	2.317	8.0	17.3
3 2	11 12.63	+34 25.8	2.844	3.751	7.0	21.3	3 2	11 11.47	+ 2 39.9	1.334	2.321	2.8	16.9
3 12	11 2.74	+34 32.9	2.865	3.746	8.0	21.3	3 12	11 4.26	+ 4 54.4	1.335	2.326	2.7	16.9
3 22	10 53.41	+34 19.4	2.913	3.742	9.6	21.4	3 22	10 57.66	+ 7 3.7	1.365	2.331	7.8	17.3
4 1	10 45.37	+33 45.8	2.985	3.737	11.3	21.5	4 1	10 52.70	+ 8 56.6	1.420	2.337	12.5	17.5
4 11	10 39.15	+32 54.7	3.078	3.732	12.9	21.7	4 11	10 50.09	+10 25.8	1.496	2.343	16.4	17.8
<b>89002</b>	2001 <i>TK</i> <sub>78</sub>		3 6.4 115°18'	6.6°/15.2 18			<b>458960</b>	2011 <i>VY</i>		3 6.4 102°72'	2.7°/ 8.4 18		
2 1	11 27.57	-19 56.1	2.481	3.174	14.3	20.0	2 1	11 35.74	- 2 31.1	1.586	2.392	16.7	21.0
2 11	11 23.63	-19 58.8	2.389	3.178	12.3	19.8	2 11	11 30.31	- 2 36.6	1.515	2.403	13.0	20.8
2 21	11 18.06	-19 38.3	2.317	3.182	10.1	19.7	2 21	11 22.39	- 2 23.6	1.466	2.413	8.7	20.5
3 2	11 11.38	-18 53.7	2.268	3.186	8.0	19.6	3 2	11 12.77	- 1 54.3	1.443	2.424	4.3	20.3
3 12	11 4.31	-17 47.3	2.247	3.190	6.7	19.5	3 12	11 2.64	- 1 13.9	1.446	2.434	3.3	20.3
3 22	10 57.62	-16 23.7	2.252	3.193	7.0	19.5	3 22	10 53.24	- 0 29.2	1.478	2.444	7.3	20.5
4 1	10 52.01	-14 49.5	2.286	3.197	8.7	19.6	4 1	10 45.67	+ 0 12.9	1.534	2.454	11.6	20.8
4 11	10 48.04	-13 12.4	2.345	3.201	10.9	19.8	4 11	10 40.64	+ 0 46.5	1.614	2.464	15.3	21.0
<b>425916</b>	2011 <i>FD</i> <sub>148</sub>		3 6.4 327°32'	1.4°/ 7.7 17			<b>426369</b>	2013 <i>OP</i> <sub>4</sub>		3 6.4 174°95'	3.7°/		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>491230</b>	2011 <i>UE</i> <sub>187</sub>		3 6.4 95°34	4.1/ 2.9	18		<b>323768</b>	2005 <i>QU</i> <sub>19</sub>		3 6.4 24°27	0.4/ 6.7	18	
2 1	11 33.95	+11 53.3	1.527	2.376	15.0	20.9	2 1	11 35.26	+ 3 54.4	1.621	2.448	15.5	20.2
2 11	11 29.02	+13 8.3	1.470	2.388	11.0	20.7	2 11	11 29.98	+ 3 50.2	1.546	2.450	11.7	20.0
2 21	11 21.59	+14 30.6	1.437	2.400	6.8	20.5	2 21	11 22.22	+ 3 57.8	1.493	2.452	7.2	19.7
3 2	11 12.51	+15 50.6	1.430	2.412	4.1	20.4	3 2	11 12.75	+ 4 13.8	1.466	2.454	2.4	19.4
3 12	11 3.01	+16 58.5	1.450	2.424	6.1	20.5	3 12	11 2.73	+ 4 33.0	1.467	2.457	2.7	19.5
3 22	10 54.35	+17 46.9	1.497	2.435	10.1	20.8	3 22	10 53.38	+ 4 50.0	1.496	2.460	7.5	19.8
4 1	10 47.58	+18 12.4	1.568	2.446	14.0	21.0	4 1	10 45.79	+ 5 0.2	1.550	2.463	11.9	20.0
4 11	10 43.39	+18 14.9	1.659	2.457	17.2	21.3	4 11	10 40.71	+ 5 0.3	1.625	2.466	15.6	20.3
<b>379044</b>	2008 <i>WR</i> <sub>25</sub>		3 6.4 176°52	0.4/ 6.9	17		<b>299300</b>	2005 <i>QN</i> <sub>34</sub>		3 6.4 230°85	0.4/ 6.9	17	
2 1	11 30.34	+ 1 38.7	2.257	3.068	12.2	21.9	2 1	11 30.05	+ 2 36.1	2.438	3.248	11.4	21.1
2 11	11 25.72	+ 2 7.3	2.173	3.069	9.2	21.7	2 11	11 25.39	+ 2 49.6	2.352	3.247	8.6	20.9
2 21	11 19.36	+ 2 48.1	2.114	3.069	5.7	21.5	2 21	11 19.12	+ 3 12.8	2.291	3.246	5.4	20.7
3 2	11 11.82	+ 3 37.4	2.083	3.070	2.0	21.3	3 2	11 11.75	+ 3 43.1	2.258	3.245	1.8	20.4
3 12	11 3.87	+ 4 30.2	2.081	3.070	2.1	21.3	3 12	11 4.01	+ 4 16.2	2.254	3.244	1.9	20.5
3 22	10 56.35	+ 5 21.1	2.108	3.070	5.9	21.5	3 22	10 56.65	+ 4 48.1	2.281	3.243	5.5	20.7
4 1	10 50.00	+ 6 5.3	2.163	3.070	9.3	21.7	4 1	10 50.37	+ 5 14.8	2.335	3.241	8.7	20.9
4 11	10 45.40	+ 6 39.1	2.242	3.070	12.4	21.9	4 11	10 45.72	+ 5 33.3	2.413	3.240	11.6	21.1
<b>190141</b>	2005 <i>SU</i> <sub>63</sub>		3 6.4 225°39	0.5/ 5.9	18		<b>188787</b>	2005 <i>VC</i> <sub>43</sub>		3 6.4 217°28	0.2/ 6.1	17	
2 1	11 35.86	+ 4 1.6	1.696	2.519	15.0	21.1	2 1	11 32.29	+ 3 53.1	2.061	2.879	12.9	21.1
2 11	11 30.53	+ 4 36.2	1.606	2.509	11.3	20.8	2 11	11 27.39	+ 4 23.4	1.973	2.874	9.7	20.9
2 21	11 22.65	+ 5 25.3	1.539	2.498	6.9	20.5	2 21	11 20.49	+ 5 5.3	1.910	2.869	5.9	20.7
3 2	11 12.92	+ 6 24.1	1.498	2.487	2.1	20.2	3 2	11 12.20	+ 5 54.8	1.874	2.862	1.8	20.4
3 12	11 2.42	+ 7 25.1	1.487	2.475	3.1	20.2	3 12	11 3.41	+ 6 46.0	1.868	2.856	2.5	20.4
3 22	10 52.40	+ 8 20.5	1.503	2.462	8.1	20.5	3 22	10 55.04	+ 7 33.2	1.890	2.849	6.7	20.7
4 1	10 44.02	+ 9 4.0	1.545	2.448	12.6	20.7	4 1	10 47.99	+ 8 11.3	1.940	2.842	10.5	20.9
4 11	10 38.15	+ 9 31.3	1.609	2.434	16.5	21.0	4 11	10 42.90	+ 8 37.0	2.012	2.835	13.8	21.1
<b>420316</b>	2011 <i>YC</i> <sub>68</sub>		3 6.4 321°50	6°5/10.6	18		<b>130093</b>	1999 <i>XP</i> <sub>14</sub>		3 6.4 180°80	3°5/ 2.9	18	
2 1	11 36.55	- 8 54.7	1.602	2.378	17.9	20.7	2 1	11 37.22	+14 35.6	2.281	3.109	11.5	20.4
2 11	11 31.21	- 9 57.0	1.516	2.375	14.7	20.5	2 11	11 30.81	+15 23.3	2.204	3.111	8.5	20.2
2 21	11 23.15	-10 39.4	1.450	2.372	11.1	20.3	2 21	11 22.45	+16 13.4	2.154	3.112	5.5	20.0
3 2	11 13.09	-10 59.2	1.409	2.368	7.8	20.1	3 2	11 12.78	+17 0.1	2.133	3.112	3.5	19.8
3 12	11 2.20	-10 57.1	1.394	2.366	6.6	20.0	3 12	11 2.71	+17 37.2	2.143	3.111	5.0	19.9
3 22	10 51.82	-10 37.0	1.405	2.363	8.7	20.1	3 22	10 53.17	+18 0.6	2.182	3.110	8.0	20.1
4 1	10 43.21	-10 5.7	1.441	2.360	12.2	20.3	4 1	10 45.00	+18 8.1	2.248	3.107	11.1	20.3
4 11	10 37.28	- 9 31.2	1.499	2.358	15.8	20.5	4 11	10 38.82	+17 59.6	2.337	3.104	13.8	20.5
<b>347454</b>	2012 <i>TT</i> <sub>242</sub>		3 6.4 215°71	1°6/ 4.5	18		<b>114676</b>	2003 <i>FZ</i> <sub>49</sub>		3 6.4 198°17	4°8/29.4	18	
2 1	11 30.27	+ 8 46.1	2.495	3.322	10.7	21.5	2 1	11 31.63	+21 17.4	2.605	3.442	9.9	19.6
2 11	11 25.56	+ 9 28.1	2.409	3.316	7.9	21.3	2 11	11 26.50	+22 9.2	2.536	3.441	7.6	19.4
2 21	11 19.22	+10 16.9	2.349	3.310	4.7	21.1	2 21	11 19.75	+22 58.7	2.493	3.440	5.6	19.3
3 2	11 11.78	+11 7.9	2.317	3.304	1.9	20.8	3 2	11 11.93	+23 40.3	2.479	3.438	4.9	19.3
3 12	11 3.94	+11 55.8	2.316	3.298	3.2	20.9	3 12	11 3.80	+24 8.8	2.494	3.437	6.1	19.3
3 22	10 56.47	+12 36.2	2.344	3.291	6.4	21.1	3 22	10 56.13	+24 21.3	2.537	3.435	8.4	19.5
4 1	10 50.06	+13 5.5	2.400	3.284	9.5	21.3	4 1	10 49.61	+24 16.6	2.605	3.433	10.7	19.6
4 11	10 45.27	+13 21.7	2.479	3.277	12.2	21.5	4 11	10 44.76	+23 55.4	2.694	3.431	12.8	19.8
<b>433522</b>	2013 <i>WY</i> <sub>75</sub>		3 6.4 158°65	1°3/ 4.9	17		<b>298918</b>	2004 <i>TB</i> <sub>114</sub>		3 6.4 100°52	1°4/ 5.3	18	
2 1	11 30.81	+ 7 19.2	2.363	3.187	11.3	22.0	2 1	11 36.44	+ 6 33.1	1.583	2.416	15.5	21.0
2 11	11 25.97	+ 8 2.7	2.286	3.192	8.3	21.8	2 11	11 30.72	+ 7 10.6	1.524	2.434	11.4	20.7
2 21	11 19.46	+ 8 54.1	2.235	3.196	4.9	21.6	2 21	11 22.56	+ 7 59.2	1.488	2.451	6.8	20.5
3 2	11 11.84	+ 9 48.6	2.212	3.200	1.7	21.4	3 2	11 12.82	+ 8 52.4	1.479	2.467	2.2	20.3
3 12	11 3.88	+10 40.7	2.220	3.204	3.0	21.5	3 12	11 2.72	+ 9 42.5	1.498	2.484	3.6	20.4
3 22	10 56.36	+11 25.5	2.257	3.207	6.4	21.7	3 22	10 53.47	+10 22.6	1.544	2.500	8.2	20.7
4 1	10 49.99	+11 59.2	2.321	3.210	9.6	21.9	4 1	10 46.12	+10 48.2	1.616	2.515	12.4	21.0
4 11	10 45.33	+12 19.8	2.409	3.212	12.4	22.1	4 11	10 41.30	+10 57.5	1.709	2.530	15.9	21.2
<b>411634</b>	2011 <i>UM</i> <sub>202</sub>		3 6.4 23°29	5°8/ 1.9	18		<b>322786</b>	2001 <i>QY</i> <sub>47</sub>		3 6.4 150°17	1°3/ 7.6	18	
2 1	11 34.20	+16 5.8	1.398	2.257	15.6	20.7	2 1	11 33.79	+ 0 2.7	1.952	2.758	14.0	20.8
2 11	11 29.54	+17 14.3	1.337	2.258	11.7	20.5	2 11	11 28.52	+ 0 12.6	1.872	2.763	10.7	20.5
2 21	11 22.08	+18 26.2	1.299	2.260	7.8	20.3	2 21	11 21.17	+ 0 36.6	1.816	2.768	6.9	20.3
3 2	11 12.71	+19 30.9	1.287	2.263	5.8	20.2	3 2	11 12.41	+ 1 11.7	1.787	2.772	2.8	20.1
3 12	11 2.79	+20 18.1	1.300	2.266	7.8	20.3	3 12	11 3.19	+ 1 53.0	1.787	2.776	2.4	20.0
3 22	10 53.74	+20 41.3	1.338	2.268	11.8	20.5	3 22	10 54.51	+ 2 34.9	1.816	2.780	6.4	20.3
4 1	10 46.78	+20 38.4	1.398	2.272	15.7	20.8	4 1	10 47.27	+ 3 12.0	1.871	2.784	10.2	20.5
4 11	10 42.65	+20 11.1	1.477	2.275	19.0	21.0	4 11	10 42.12	+ 3 39.9	1.950	2.787	13.6	20.8
<b>413879</b>	2006 <i>UN</i> <sub>335</sub>		3 6.4 7°70	14°1/26.3	16		<b>363362</b>	2002 <i>SE</i> <sub>21</sub>		3 6.4 205°28	1°4/ 5.0	16	
2 1	11 37.39	+34 5.5	1.124	1.983	18.6	19.9	2 1	11 34.82	+ 7 39.3	2.169	2.991	12.3	22.6
2 11	11 32.65	+35 21.6	1.086	1.984	16.0	19.7	2 11	11 29.18	+ 8 14.5	2.081	2.985	9.1	22.4
2 21	11 24.17	+36 15.7	1.068	1.987	14.3	19.6	2 21	11 21.55	+ 8 58.0	2.019	2.979	5.5	22.1
3 2	11 13.33	+36 33.6	1.070	1.992	14.3	19.7	3 2	11 12.53	+ 9 44.9	1.985	2.973	1.9	21.9
3 12	11 2.14	+36 6.8	1.093	1.999	15.9	19.8	3 12	11 3.02	+10 29.6	1.981	2.965	3.2	22.0
3 22	10 52.55	+34 55.7	1.135	2.007	18.4	19.9	3 22	10 53.93	+11 6.8	2.007	2.957	7.0	22.2
4 1	10 45.96	+33 7.2	1.195	2.016	21.1	20.1	4 1	10 46.17	+11 32.4	2.060	2.948	10.6	22.4
4 11	10 42.99	+30 51.4	1.270	2.028	23.6	20.4	4 11	10 40.36	+11 44.3	2.136	2.939	13.7	22.6
<b>419857</b>	2011 <i>AB</i> <sub>12</sub>		3 6.4 80°05	5°5/11.2	18		<b>277815</b>	2006 <i>FB</i> <sub>55</sub>		3 6.4 175°65			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>1200</b>	Imperatrix		3 6.4 281°59	1.4/ 7.9	18		<b>203530</b>	2002 BV <sub>27</sub>		3 6.4 56°90	5°6/ 2.1	18	
2 1	11 28.31	- 1 17.3	2.261	3.064	12.5	15.8	2 1	11 34.79	+15 19.1	1.333	2.193	16.2	19.7
2 11	11 24.32	- 0 53.2	2.165	3.053	9.6	15.6	2 11	11 29.99	+16 30.9	1.280	2.202	12.0	19.5
2 21	11 18.58	- 0 14.6	2.093	3.043	6.2	15.4	2 21	11 22.34	+17 46.5	1.250	2.212	7.9	19.3
3 2	11 11.62	+ 0 35.7	2.048	3.032	2.7	15.2	3 2	11 12.81	+18 54.8	1.245	2.222	5.6	19.2
3 12	11 4.18	+ 1 33.1	2.033	3.022	2.1	15.1	3 12	11 2.83	+19 45.3	1.265	2.233	7.7	19.3
3 22	10 57.07	+ 2 32.0	2.046	3.012	5.7	15.3	3 22	10 53.84	+20 11.4	1.311	2.243	11.7	19.6
4 1	10 51.07	+ 3 26.8	2.087	3.001	9.2	15.5	4 1	10 47.04	+20 11.3	1.378	2.254	15.7	19.8
4 11	10 46.77	+ 4 12.7	2.152	2.991	12.4	15.7	4 11	10 43.14	+19 46.7	1.464	2.265	19.0	20.1
<b>496648</b>	2016 AZ <sub>110</sub>		3 6.4 294°58	0°7/ 6.9	17		<b>96176</b>	1981 EZ <sub>44</sub>		3 6.4 206°41	2°5/ 8.7	18	
2 1	11 34.12	+ 2 39.5	1.559	2.386	15.9	20.9	2 1	11 32.47	- 4 25.5	1.813	2.608	15.4	20.1
2 11	11 29.38	+ 2 42.7	1.473	2.377	12.2	20.7	2 11	11 27.81	- 4 1.1	1.724	2.605	12.0	19.9
2 21	11 22.01	+ 3 0.5	1.410	2.368	7.6	20.4	2 21	11 20.91	- 3 16.0	1.656	2.600	8.1	19.6
3 2	11 12.74	+ 3 29.1	1.372	2.359	2.7	20.0	3 2	11 12.40	- 2 12.8	1.615	2.596	4.1	19.4
3 12	11 2.73	+ 4 3.0	1.361	2.351	2.8	20.0	3 12	11 3.26	- 0 57.4	1.602	2.590	3.0	19.3
3 22	10 53.25	+ 4 35.5	1.377	2.342	7.9	20.3	3 22	10 54.60	+ 0 22.4	1.618	2.584	6.8	19.5
4 1	10 45.53	+ 5 0.5	1.418	2.334	12.6	20.5	4 1	10 47.40	+ 1 38.6	1.660	2.578	10.9	19.7
4 11	10 40.41	+ 5 13.8	1.480	2.326	16.7	20.8	4 11	10 42.44	+ 2 44.0	1.725	2.571	14.7	20.0
<b>294592</b>	2007 YY <sub>71</sub>		3 6.4 144°56	4°1/ 1.2	17		<b>259322</b>	2003 FJ <sub>66</sub>		3 6.4 269°16	1°4/ 5.0	17	
2 1	11 30.83	+18 15.6	2.577	3.416	10.0	20.9	2 1	11 30.86	+ 6 28.1	1.883	2.716	13.4	20.7
2 11	11 25.89	+19 11.3	2.512	3.421	7.5	20.7	2 11	11 26.56	+ 7 14.7	1.795	2.705	9.9	20.5
2 21	11 19.37	+20 6.7	2.473	3.426	5.2	20.6	2 21	11 20.12	+ 8 13.0	1.731	2.694	6.0	20.2
3 2	11 11.82	+20 56.1	2.462	3.431	4.2	20.5	3 2	11 12.16	+ 9 17.4	1.695	2.683	2.0	19.9
3 12	11 3.99	+21 34.5	2.481	3.435	5.5	20.6	3 12	11 3.61	+10 20.7	1.687	2.672	3.5	20.0
3 22	10 56.62	+21 58.3	2.529	3.440	7.9	20.8	3 22	10 55.48	+11 15.8	1.707	2.661	7.8	20.2
4 1	10 50.38	+22 5.8	2.602	3.444	10.3	20.9	4 1	10 48.75	+11 57.4	1.752	2.649	11.7	20.4
4 11	10 45.77	+21 57.4	2.697	3.447	12.5	21.1	4 11	10 44.13	+12 22.1	1.820	2.638	15.2	20.6
<b>495115</b>	2011 UV <sub>249</sub>		3 6.4 211°95	2°2/ 4.4	17		<b>503243</b>	2015 HN <sub>176</sub>		3 6.4 259°94	8°0/ 24.6	18	
2 1	11 35.86	+ 8 55.5	1.987	2.814	13.0	23.2	2 1	11 31.52	+30 35.9	2.365	3.201	10.9	20.6
2 11	11 30.17	+ 9 44.0	1.899	2.807	9.6	23.0	2 11	11 26.76	+32 6.1	2.312	3.199	9.1	20.5
2 21	11 22.26	+10 41.4	1.836	2.798	5.8	22.7	2 21	11 20.06	+33 27.7	2.285	3.197	8.1	20.4
3 2	11 12.78	+11 41.6	1.802	2.788	2.4	22.5	3 2	11 12.09	+34 32.7	2.284	3.195	8.3	20.4
3 12	11 2.71	+12 37.7	1.797	2.778	4.0	22.6	3 12	11 3.74	+35 15.2	2.310	3.193	9.6	20.5
3 22	10 53.09	+13 23.2	1.821	2.767	8.0	22.8	3 22	10 55.93	+35 32.1	2.360	3.191	11.5	20.6
4 1	10 44.92	+13 53.8	1.872	2.755	11.8	23.0	4 1	10 49.50	+35 23.7	2.432	3.189	13.4	20.7
4 11	10 38.92	+14 7.4	1.945	2.742	15.1	23.2	4 11	10 45.03	+34 52.6	2.521	3.187	15.2	20.9
<b>269655</b>	1995 BU <sub>9</sub>		3 6.4 65°07	2°1/ 4.6	18		<b>424751</b>	2008 TQ <sub>29</sub>		3 6.4 226°37	0°7/ 7.2	17	
2 1	11 33.64	+ 7 13.1	1.530	2.371	15.5	21.2	2 1	11 30.20	+ 0 18.7	2.300	3.105	12.2	22.0
2 11	11 28.58	+ 8 14.0	1.484	2.398	11.3	21.1	2 11	11 25.69	+ 0 53.0	2.205	3.096	9.3	21.8
2 21	11 21.20	+ 9 25.6	1.461	2.426	6.7	20.9	2 21	11 19.43	+ 1 41.0	2.134	3.087	5.9	21.6
3 2	11 12.39	+10 39.7	1.465	2.453	2.5	20.6	3 2	11 11.92	+ 2 39.3	2.091	3.078	2.2	21.3
3 12	11 3.34	+11 47.1	1.496	2.480	4.2	20.8	3 12	11 3.93	+ 3 42.7	2.079	3.068	2.0	21.3
3 22	10 55.22	+12 40.8	1.555	2.507	8.6	21.1	3 22	10 56.28	+ 4 45.5	2.095	3.058	5.8	21.5
4 1	10 48.97	+13 16.3	1.638	2.533	12.5	21.4	4 1	10 49.75	+ 5 42.2	2.140	3.047	9.4	21.7
4 11	10 45.15	+13 32.4	1.742	2.560	15.8	21.7	4 11	10 44.94	+ 6 28.2	2.209	3.037	12.5	21.9
<b>380901</b>	2006 DX <sub>126</sub>		3 6.4 223°83	0°2/ 6.1	17		<b>492231</b>	2013 TK <sub>72</sub>		3 6.4 178°57	0°4/ 6.8	17	
2 1	11 28.64	+ 1 52.1	2.160	2.976	12.5	21.5	2 1	11 31.54	+ 1 56.2	2.159	2.971	12.7	22.1
2 11	11 24.61	+ 2 53.5	2.071	2.971	9.4	21.3	2 11	11 26.72	+ 2 20.7	2.076	2.971	9.6	21.9
2 21	11 18.78	+ 4 9.6	2.008	2.966	5.7	21.0	2 21	11 20.04	+ 2 57.5	2.016	2.972	6.0	21.7
3 2	11 11.69	+ 5 35.5	1.972	2.961	1.7	20.7	3 2	11 12.10	+ 3 42.9	1.985	2.972	2.0	21.4
3 12	11 4.15	+ 7 4.3	1.967	2.955	2.4	20.8	3 12	11 3.73	+ 4 31.8	1.983	2.972	2.2	21.4
3 22	10 56.98	+ 8 28.6	1.991	2.949	6.4	21.0	3 22	10 55.81	+ 5 18.8	2.010	2.972	6.1	21.7
4 1	10 50.99	+ 9 42.2	2.042	2.943	10.1	21.2	4 1	10 49.13	+ 5 58.9	2.065	2.972	9.7	21.9
4 11	10 46.78	+10 40.6	2.117	2.937	13.3	21.4	4 11	10 44.31	+ 6 28.5	2.143	2.971	12.8	22.1
<b>159604</b>	2001 YZ <sub>29</sub>		3 6.4 26°11	4°3/ 9.4	18		<b>470882</b>	2009 BE <sub>46</sub>		3 6.4 337°16	3°8/ 1.8	16	
2 1	11 33.96	- 5 9.0	1.395	2.203	18.5	20.0	2 1	11 24.35	+ 9 16.0	1.741	2.596	13.3	20.3
2 11	11 29.44	- 5 30.5	1.320	2.205	14.7	19.7	2 11	11 21.89	+11 17.8	1.660	2.583	9.7	20.1
2 21	11 22.11	- 5 29.5	1.264	2.207	10.3	19.5	2 21	11 17.35	+13 34.4	1.605	2.571	6.0	19.8
3 2	11 12.79	- 5 6.4	1.233	2.209	6.0	19.2	3 2	11 11.31	+15 55.3	1.578	2.560	3.8	19.7
3 12	11 2.74	- 4 25.8	1.226	2.211	4.6	19.2	3 12	11 4.70	+18 8.6	1.579	2.549	6.2	19.8
3 22	10 53.39	- 3 35.1	1.246	2.214	8.1	19.4	3 22	10 58.49	+20 3.3	1.608	2.539	10.1	20.0
4 1	10 46.00	- 2 42.9	1.289	2.217	12.6	19.6	4 1	10 53.66	+21 32.2	1.661	2.530	13.8	20.2
4 11	10 41.42	- 1 57.5	1.354	2.220	16.7	19.9	4 11	10 50.92	+22 32.2	1.735	2.522	17.0	20.4
<b>136599</b>	1993 FR <sub>37</sub>		3 6.4 323°15	0°1/ 6.5	18		<b>312125</b>	2007 TT <sub>237</sub>		3 6.4 147°26	4°0/ 2.8	18	
2 1	11 29.39	+ 2 8.2	1.425	2.264	16.5	19.7	2 1	11 35.44	+13 26.7	1.793	2.634	13.6	21.1
2 11	11 26.04	+ 2 40.7	1.342	2.253	12.5	19.4	2 11	11 29.90	+14 28.6	1.728	2.641	10.0	20.8
2 21	11 20.07	+ 3 32.2	1.280	2.242	7.8	19.1	2 21	11 22.08	+15 35.3	1.687	2.648	6.3	20.6
3 2	11 12.17	+ 4 37.7	1.243	2.231	2.5	18.8	3 2	11 12.73	+16 38.8	1.674	2.655	4.0	20.5
3 12	11 3.50	+ 5 48.9	1.231	2.221	3.1	18.8	3 12	11 2.96	+17 31.0	1.690	2.661	5.8	20.6
3 22	10 55.37	+ 6 56.2	1.246	2.211	8.5	19.1	3 22	10 53.88	+18 6.2	1.733	2.666	9.3	20.8
4 1	10 49.00	+ 7 51.4	1.284	2.202	13.4	19.3	4 1	10 46.49	+18 21.6	1.801	2.671	12.9	21.1
4 11	10 45.27	+ 8 28.6	1.342	2.194	17.7	19.6	4 11	10 41.43	+18 17.0	1.890	2.675	15.9	21.3
<b>493256</b>	2014 UK <sub>112</sub>		3 6.4 214°33	5°8/ 29.9	17		<b>309229</b>	2007 QO <sub>2</sub>		3 6.4 188°92	0°2/ 6.6	18	
2 1	11 36.15	+19 4.1	1.896	2.739	1								

EPHEMERIDES

3 6.4

3 6.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>234006</b>	1997 <i>EW</i> <sub>30</sub>		3 6.4 61°30	0.2/ 6.2	17		<b>67800</b>	2000 <i>UZ</i> <sub>109</sub>		3 6.4 46°56	3.2/ 3.8	18	
2 1	11 32.15	+ 4 17.0	1.912	2.736	13.6	20.9	2 1	11 31.49	+ 8 16.7	1.228	2.087	17.3	18.8
2 11	11 27.36	+ 4 36.9	1.835	2.738	10.1	20.7	2 11	11 27.58	+ 9 33.4	1.181	2.105	12.7	18.5
2 21	11 20.51	+ 5 8.0	1.781	2.741	6.2	20.4	2 21	11 20.89	+11 2.9	1.156	2.123	7.5	18.3
3 2	11 12.26	+ 5 46.2	1.755	2.743	1.9	20.1	3 2	11 12.41	+12 34.3	1.155	2.142	3.4	18.1
3 12	11 3.57	+ 6 25.8	1.757	2.746	2.6	20.2	3 12	11 3.55	+13 55.3	1.180	2.161	5.6	18.3
3 22	10 55.41	+ 7 1.3	1.787	2.748	6.8	20.5	3 22	10 55.71	+14 56.8	1.230	2.181	10.4	18.6
4 1	10 48.70	+ 7 28.0	1.844	2.751	10.7	20.7	4 1	10 50.02	+15 33.5	1.302	2.201	14.8	18.9
4 11	10 44.06	+ 7 42.8	1.924	2.754	14.0	20.9	4 11	10 47.14	+15 45.0	1.393	2.221	18.5	19.2
<b>65027</b>	2002 <i>AH</i> <sub>109</sub>		3 6.4 138°83	3.2/ 3.4	18		<b>362684</b>	2011 <i>UP</i> <sub>99</sub>		3 6.4 75°18	3.5/ 3.9	18	
2 1	11 34.70	+10 23.7	1.737	2.576	14.0	19.6	2 1	11 36.80	+11 57.0	1.454	2.302	15.8	20.6
2 11	11 29.39	+11 35.1	1.673	2.586	10.3	19.3	2 11	11 31.28	+12 36.5	1.395	2.312	11.7	20.4
2 21	11 21.78	+12 54.8	1.634	2.596	6.3	19.1	2 21	11 23.07	+13 22.2	1.359	2.323	7.2	20.1
3 2	11 12.65	+14 14.5	1.622	2.606	3.3	19.0	3 2	11 13.09	+14 5.9	1.348	2.333	3.6	19.9
3 12	11 3.10	+15 25.3	1.638	2.614	5.2	19.1	3 12	11 2.67	+14 39.5	1.365	2.343	5.5	20.1
3 22	10 54.24	+16 20.3	1.683	2.623	9.1	19.3	3 22	10 53.17	+14 57.1	1.407	2.354	9.8	20.3
4 1	10 47.07	+16 55.2	1.753	2.630	12.8	19.6	4 1	10 45.74	+14 55.8	1.474	2.364	14.0	20.6
4 11	10 42.26	+17 9.2	1.843	2.637	15.9	19.8	4 11	10 41.07	+14 36.0	1.560	2.374	17.5	20.9
<b>113153</b>	2002 <i>RF</i> <sub>96</sub>		3 6.4 228°52	0.7/ 7.1	18		<b>6962</b>	Summerscience		3 6.4 177°40	3.8/ 9.7	18	
2 1	11 32.86	+ 0 46.4	2.065	2.872	13.3	21.1	2 1	11 35.27	- 6 35.8	1.840	2.620	15.8	18.7
2 11	11 27.90	+ 1 15.7	1.968	2.861	10.2	20.9	2 11	11 29.86	- 6 39.7	1.754	2.622	12.6	18.5
2 21	11 20.90	+ 1 59.7	1.895	2.849	6.4	20.7	2 21	11 22.16	- 6 23.6	1.690	2.624	8.9	18.2
3 2	11 12.42	+ 2 54.8	1.850	2.837	2.3	20.4	3 2	11 12.83	- 5 48.4	1.652	2.625	5.2	18.0
3 12	11 3.33	+ 3 55.5	1.834	2.824	2.3	20.3	3 12	11 2.91	- 4 58.2	1.642	2.625	4.0	17.9
3 22	10 54.60	+ 4 55.4	1.848	2.810	6.5	20.6	3 22	10 53.50	- 3 59.2	1.660	2.625	6.9	18.1
4 1	10 47.16	+ 5 48.4	1.889	2.796	10.5	20.8	4 1	10 45.63	- 2 59.0	1.705	2.624	10.7	18.3
4 11	10 41.70	+ 6 30.0	1.953	2.781	13.9	21.0	4 11	10 40.04	- 2 4.3	1.774	2.622	14.2	18.5
<b>7379</b>	Naoyaimae		3 6.4 213°03	1°3/ 7.7	18		<b>42498</b>	1992 <i>DG</i> <sub>6</sub>		3 6.4 26°91	1°3/ 5.4	18	
2 1	11 31.81	- 0 34.1	2.164	2.966	13.0	19.5	2 1	11 34.37	+ 8 2.6	1.739	2.574	14.2	18.5
2 11	11 26.98	- 0 15.7	2.073	2.961	10.0	19.3	2 11	11 29.16	+ 8 13.1	1.667	2.578	10.5	18.2
2 21	11 20.25	+ 0 16.7	2.006	2.956	6.4	19.1	2 21	11 21.68	+ 8 31.5	1.619	2.582	6.4	18.0
3 2	11 12.19	+ 1 0.3	1.966	2.950	2.7	18.8	3 2	11 12.66	+ 8 53.0	1.598	2.586	2.1	17.7
3 12	11 3.64	+ 1 50.4	1.955	2.944	2.2	18.8	3 12	11 3.19	+ 9 12.1	1.604	2.591	3.3	17.8
3 22	10 55.48	+ 2 41.5	1.974	2.938	6.0	19.0	3 22	10 54.39	+ 9 23.9	1.638	2.596	7.7	18.1
4 1	10 48.54	+ 3 28.1	2.020	2.931	9.7	19.2	4 1	10 47.24	+ 9 25.0	1.698	2.601	11.7	18.3
4 11	10 43.48	+ 4 5.8	2.090	2.924	12.9	19.4	4 11	10 42.41	+ 9 13.7	1.780	2.607	15.1	18.6
<b>464646</b>	2000 <i>SO</i> <sub>199</sub>		3 6.4 164°70	1°5/ 4.8	16		<b>383680</b>	2007 <i>TU</i> <sub>240</sub>		3 6.4 87°73	5°7/ 28.8	18	
2 1	11 33.51	+ 8 27.9	2.516	3.335	10.8	22.5	2 1	11 30.68	+20 23.6	2.152	2.999	11.4	20.1
2 11	11 27.89	+ 9 4.3	2.438	3.342	8.0	22.3	2 11	11 26.11	+21 45.9	2.096	3.007	8.7	20.0
2 21	11 20.62	+ 9 47.0	2.387	3.347	4.8	22.1	2 21	11 19.67	+23 6.8	2.065	3.014	6.4	19.9
3 2	11 12.28	+10 31.5	2.365	3.352	1.8	21.9	3 2	11 12.01	+24 18.2	2.063	3.022	5.7	19.8
3 12	11 3.60	+11 12.9	2.374	3.356	3.0	22.0	3 12	11 4.02	+25 13.3	2.089	3.030	7.3	19.9
3 22	10 55.37	+11 47.1	2.413	3.360	6.2	22.2	3 22	10 56.60	+25 47.9	2.142	3.038	9.8	20.1
4 1	10 48.29	+12 10.7	2.479	3.363	9.3	22.4	4 1	10 50.54	+26 0.4	2.218	3.046	12.4	20.3
4 11	10 42.88	+12 22.3	2.570	3.365	11.9	22.6	4 11	10 46.40	+25 51.9	2.315	3.053	14.6	20.5
<b>93357</b>	2000 <i>SP</i> <sub>261</sub>		3 6.4 130°94	2°1/ 4.2	18		<b>365824</b>	2011 <i>SC</i> <sub>220</sub>		3 6.4 72°41	0°0/ 6.2	18	
2 1	11 31.21	+ 8 21.5	2.021	2.855	12.6	20.2	2 1	11 37.22	+ 3 47.2	1.431	2.261	16.9	21.7
2 11	11 26.54	+ 9 19.6	1.951	2.862	9.2	19.9	2 11	11 31.48	+ 4 1.1	1.376	2.282	12.7	21.5
2 21	11 19.95	+10 26.4	1.905	2.868	5.5	19.7	2 21	11 23.12	+ 4 29.1	1.343	2.303	7.7	21.3
3 2	11 12.09	+11 35.8	1.888	2.875	2.3	19.5	3 2	11 13.09	+ 5 5.9	1.336	2.324	2.4	21.0
3 12	11 3.84	+12 40.5	1.900	2.881	3.9	19.6	3 12	11 2.72	+ 5 44.3	1.356	2.345	3.0	21.1
3 22	10 56.13	+13 34.4	1.940	2.887	7.5	19.9	3 22	10 53.32	+ 6 17.5	1.402	2.366	8.0	21.5
4 1	10 49.79	+14 13.3	2.007	2.892	11.0	20.1	4 1	10 46.01	+ 6 40.2	1.474	2.386	12.5	21.8
4 11	10 45.40	+14 35.2	2.095	2.898	14.0	20.3	4 11	10 41.42	+ 6 49.4	1.567	2.407	16.2	22.1
<b>156003</b>	2001 <i>RO</i> <sub>35</sub>		3 6.4 216°65	1°7/ 7.9	18		<b>319762</b>	2006 <i>UG</i> <sub>207</sub>		3 6.4 357°30	0°5/ 6.0	18	
2 1	11 34.11	- 2 3.6	1.778	2.581	15.3	21.0	2 1	11 30.91	+ 4 12.4	1.435	2.277	16.3	20.9
2 11	11 29.13	- 1 37.7	1.686	2.574	11.9	20.7	2 11	11 27.07	+ 4 41.9	1.362	2.275	12.2	20.7
2 21	11 21.79	- 0 52.6	1.616	2.566	7.8	20.4	2 21	11 20.64	+ 5 27.0	1.310	2.273	7.4	20.4
3 2	11 12.73	+ 0 8.6	1.573	2.557	3.4	20.2	3 2	11 12.39	+ 6 21.9	1.284	2.272	2.2	20.1
3 12	11 2.97	+ 1 19.6	1.558	2.548	2.7	20.1	3 12	11 3.51	+ 7 18.5	1.283	2.272	3.3	20.1
3 22	10 53.65	+ 2 32.8	1.572	2.538	7.1	20.3	3 22	10 55.30	+ 8 8.5	1.309	2.272	8.5	20.5
4 1	10 45.86	+ 3 40.2	1.612	2.527	11.5	20.6	4 1	10 48.92	+ 8 45.3	1.359	2.273	13.2	20.7
4 11	10 40.38	+ 4 35.5	1.676	2.515	15.3	20.8	4 11	10 45.15	+ 9 4.9	1.429	2.274	17.1	21.0
<b>518166</b>	2016 <i>GS</i> <sub>259</sub>		3 6.4 184°79	4°7/ 29.7	18		<b>419275</b>	2009 <i>WE</i> <sub>10</sub>		3 6.4 102°47	10°9/ 21.4	18	
2 1	11 31.42	+19 8.7	2.468	3.307	10.4	21.4	2 1	11 38.95	+39 58.0	2.196	3.002	12.7	20.6
2 11	11 26.47	+20 13.9	2.398	3.307	7.8	21.3	2 11	11 32.43	+41 47.0	2.179	3.024	11.4	20.6
2 21	11 19.82	+21 18.8	2.356	3.307	5.5	21.1	2 21	11 23.54	+43 17.3	2.187	3.045	10.9	20.6
3 2	11 12.04	+22 16.9	2.342	3.306	4.7	21.0	3 2	11 13.19	+44 20.0	2.219	3.066	11.3	20.7
3 12	11 3.91	+23 2.5	2.357	3.305	6.1	21.1	3 12	11 2.61	+44 50.5	2.275	3.086	12.4	20.8
3 22	10 56.23	+23 31.7	2.400	3.304	8.5	21.3	3 22	10 53.00	+44 48.2	2.352	3.106	13.8	20.9
4 1	10 49.74	+23 42.5	2.469	3.303	11.1	21.4	4 1	10 45.32	+44 16.3	2.448	3.126	15.3	21.1
4 11	10 44.97	+23 35.5	2.558	3.301	13.3	21.6	4 11	10 40.17	+43 20.2	2.559	3.145	16.5	21.2
<b>495998</b>	2007 <i>VU</i> <sub>113</sub>		3 6.4 129°00	0°7/ 5.5	17		<b>224409</b>	2005 <i>UR</i> <sub>323</sub>		3 6.4 198°95	1°5/ 4.8	18	</

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>518639</b>	2008 <i>JC</i> <sub>42</sub>		3 6.4 265°23	6°2/29.6	16		<b>415721</b>	1999 <i>SC</i>		3 6.4 206°09	0°6/ 5.8	17	
2 1	11 34.34	+19 57.3	1.789	2.638	13.2	21.6	2 1	11 35.34	+ 5 8.0	2.272	3.084	12.1	22.9
2 11	11 29.28	+21 6.4	1.719	2.632	10.1	21.4	2 11	11 29.55	+ 5 39.3	2.179	3.077	9.1	22.6
2 21	11 21.83	+22 14.9	1.673	2.625	7.3	21.2	2 21	11 21.82	+ 6 20.5	2.111	3.069	5.5	22.4
3 2	11 12.73	+23 13.9	1.655	2.619	6.3	21.2	3 2	11 12.74	+ 7 7.4	2.073	3.061	1.7	22.1
3 12	11 3.09	+23 55.0	1.663	2.613	8.0	21.3	3 12	11 3.13	+ 7 54.7	2.064	3.052	2.6	22.2
3 22	10 54.09	+24 13.0	1.697	2.607	11.1	21.4	3 22	10 53.91	+ 8 37.2	2.086	3.041	6.5	22.4
4 1	10 46.77	+24 6.5	1.755	2.600	14.3	21.6	4 1	10 45.93	+ 9 10.5	2.136	3.030	10.1	22.6
4 11	10 41.87	+23 37.1	1.832	2.594	17.2	21.8	4 11	10 39.83	+ 9 31.8	2.210	3.018	13.2	22.8
<b>220798</b>	2004 <i>TF</i> <sub>220</sub>		3 6.4 68°45	4°8/ 1.7	18		<b>209667</b>	2005 <i>CZ</i> <sub>48</sub>		3 6.4 48°41	0°4/ 6.8	18	
2 1	11 32.55	+15 31.2	1.782	2.631	13.3	19.2	2 1	11 31.84	+ 1 18.3	1.312	2.150	17.8	20.2
2 11	11 27.64	+16 49.4	1.736	2.653	9.8	19.1	2 11	11 27.77	+ 1 53.6	1.255	2.164	13.4	19.9
2 21	11 20.62	+18 9.4	1.715	2.674	6.4	18.9	2 21	11 21.02	+ 2 48.5	1.218	2.179	8.3	19.7
3 2	11 12.30	+19 22.4	1.721	2.696	4.8	18.8	3 2	11 12.50	+ 3 56.7	1.206	2.194	2.7	19.4
3 12	11 3.72	+20 20.6	1.756	2.718	6.5	19.0	3 12	11 3.52	+ 5 8.9	1.219	2.209	3.0	19.5
3 22	10 55.92	+20 58.7	1.817	2.740	9.7	19.2	3 22	10 55.43	+ 6 15.3	1.258	2.225	8.3	19.8
4 1	10 49.78	+21 14.9	1.902	2.761	12.8	19.5	4 1	10 49.36	+ 7 8.2	1.322	2.241	13.1	20.1
4 11	10 45.84	+21 10.1	2.008	2.783	15.5	19.7	4 11	10 46.01	+ 7 43.0	1.405	2.257	17.0	20.4
<b>13319</b>	Michaelmi		3 6.4 296°80	5°1/ 2.8	18		<b>207593</b>	2006 <i>QG</i> <sub>59</sub>		3 6.4 83°62	1°9/ 8.2	17	
2 1	11 34.76	+13 46.7	1.302	2.161	16.5	17.8	2 1	11 32.02	- 1 15.3	2.233	3.030	12.8	20.2
2 11	11 30.46	+14 44.3	1.223	2.146	12.4	17.5	2 11	11 27.02	- 1 20.3	2.150	3.034	9.9	20.0
2 21	11 23.02	+15 49.9	1.167	2.131	8.0	17.2	2 21	11 20.23	- 1 12.8	2.091	3.038	6.5	19.8
3 2	11 13.21	+16 53.5	1.134	2.116	5.1	17.0	3 2	11 12.23	- 0 54.6	2.060	3.041	3.1	19.6
3 12	11 2.45	+17 43.4	1.127	2.101	7.4	17.1	3 12	11 3.82	- 0 29.2	2.057	3.045	2.4	19.6
3 22	10 52.35	+18 11.2	1.144	2.086	12.1	17.3	3 22	10 55.86	- 0 0.9	2.084	3.049	5.6	19.8
4 1	10 44.40	+18 12.5	1.183	2.071	16.8	17.5	4 1	10 49.12	+ 0 25.8	2.139	3.053	9.0	20.0
4 11	10 39.59	+17 47.7	1.240	2.057	20.9	17.8	4 11	10 44.19	+ 0 47.1	2.217	3.057	12.0	20.2
<b>99371</b>	2001 <i>XX</i> <sub>251</sub>		3 6.4 267°80	5°5/ 1.6	18		<b>275064</b>	2009 <i>US</i> <sub>121</sub>		3 6.4 14°38	5°8/ 11.3	18	
2 1	11 33.46	+14 58.0	1.495	2.351	15.0	19.5	2 1	11 28.18	- 9 49.9	1.458	2.251	18.5	19.3
2 11	11 29.07	+16 20.9	1.421	2.341	11.2	19.2	2 11	11 25.01	-10 9.1	1.386	2.256	15.1	19.1
2 21	11 21.94	+17 50.7	1.371	2.332	7.4	19.0	2 21	11 19.38	-10 1.7	1.333	2.261	11.2	18.9
3 2	11 12.82	+19 16.5	1.346	2.322	5.5	18.8	3 2	11 12.02	- 9 27.5	1.302	2.268	7.5	18.7
3 12	11 2.97	+20 27.2	1.348	2.312	7.7	18.9	3 12	11 4.09	- 8 30.9	1.297	2.275	5.8	18.6
3 22	10 53.75	+21 14.5	1.375	2.302	11.7	19.1	3 22	10 56.79	- 7 19.7	1.316	2.283	7.9	18.7
4 1	10 46.42	+21 34.3	1.424	2.292	15.8	19.3	4 1	10 51.24	- 6 3.7	1.360	2.292	11.7	19.0
4 11	10 41.83	+21 27.2	1.493	2.282	19.2	19.5	4 11	10 48.17	- 4 52.6	1.425	2.303	15.4	19.2
<b>522629</b>	2016 <i>FL</i> <sub>67</sub>		3 6.4 270°34	2°3/ 3.9	17		<b>360388</b>	2002 <i>CY</i> <sub>311</sub>		3 6.4 32°29	4°1/ 3.2	18	
2 1	11 29.09	+ 7 11.6	1.912	2.749	13.0	22.1	2 1	11 30.53	+10 3.9	1.205	2.070	17.2	20.1
2 11	11 25.29	+ 8 33.5	1.822	2.735	9.6	21.8	2 11	11 27.07	+11 25.1	1.152	2.078	12.6	19.8
2 21	11 19.40	+10 9.1	1.756	2.720	5.8	21.6	2 21	11 20.72	+12 58.4	1.120	2.087	7.7	19.6
3 2	11 12.01	+11 51.2	1.718	2.705	2.5	21.3	3 2	11 12.44	+14 32.1	1.112	2.097	4.2	19.4
3 12	11 3.99	+13 30.5	1.710	2.690	4.4	21.4	3 12	11 3.64	+15 53.3	1.130	2.107	6.6	19.6
3 22	10 56.35	+14 58.4	1.730	2.675	8.4	21.6	3 22	10 55.77	+16 52.4	1.171	2.118	11.3	19.9
4 1	10 50.02	+16 8.3	1.776	2.659	12.3	21.8	4 1	10 50.08	+17 24.4	1.235	2.130	15.7	20.2
4 11	10 45.73	+16 56.6	1.843	2.644	15.7	22.0	4 11	10 47.28	+17 29.1	1.316	2.142	19.5	20.4
<b>30875</b>	1992 <i>EX</i> <sub>25</sub>		3 6.4 18°30	1°2/ 5.2	18		<b>292889</b>	2006 <i>VK</i> <sub>31</sub>		3 6.4 37°76	3°3/ 10.2	17	
2 1	11 28.92	+ 6 28.7	1.998	2.832	12.7	18.3	2 1	11 28.04	- 7 23.6	2.270	3.046	13.3	20.4
2 11	11 24.89	+ 7 6.4	1.924	2.835	9.4	18.1	2 11	11 24.09	- 7 13.3	2.184	3.048	10.6	20.2
2 21	11 18.99	+ 7 53.8	1.875	2.838	5.6	17.9	2 21	11 18.46	- 6 45.3	2.120	3.051	7.5	20.0
3 2	11 11.83	+ 8 45.8	1.853	2.842	1.8	17.6	3 2	11 11.69	- 6 1.1	2.083	3.054	4.5	19.8
3 12	11 4.28	+ 9 36.3	1.860	2.846	3.1	17.7	3 12	11 4.53	- 5 4.7	2.074	3.057	3.4	19.7
3 22	10 57.24	+10 19.4	1.895	2.850	6.9	18.0	3 22	10 57.75	- 4 1.5	2.094	3.060	5.6	19.9
4 1	10 51.51	+10 51.0	1.955	2.855	10.5	18.2	4 1	10 52.10	- 2 57.3	2.142	3.063	8.7	20.1
4 11	10 47.68	+11 8.3	2.039	2.861	13.6	18.4	4 11	10 48.14	- 1 58.1	2.214	3.066	11.6	20.3
<b>155729</b>	2000 <i>RU</i> <sub>63</sub>		3 6.4 110°97	2°4/ 9.2	18		<b>206389</b>	2003 <i>SD</i> <sub>7</sub>		3 6.4 257°06	1°4/ 5.3	17	
2 1	11 29.75	- 6 0.2	2.030	2.816	14.3	20.7	2 1	11 36.42	+ 7 9.5	1.847	2.673	13.9	20.9
2 11	11 25.46	- 5 17.6	1.954	2.828	11.1	20.5	2 11	11 30.95	+ 7 38.3	1.746	2.651	10.4	20.6
2 21	11 19.30	- 4 14.9	1.900	2.840	7.6	20.3	2 21	11 23.00	+ 8 17.6	1.668	2.629	6.4	20.3
3 2	11 11.92	- 2 55.5	1.873	2.852	3.9	20.1	3 2	11 13.20	+ 9 2.6	1.618	2.606	2.1	20.0
3 12	11 4.17	- 1 25.6	1.876	2.863	2.7	20.0	3 12	11 2.55	+ 9 46.4	1.597	2.583	3.5	20.0
3 22	10 56.94	+ 0 7.0	1.907	2.874	5.9	20.3	3 22	10 52.23	+10 22.8	1.604	2.558	8.1	20.2
4 1	10 51.02	+ 1 34.8	1.967	2.885	9.5	20.5	4 1	10 43.39	+10 46.6	1.638	2.533	12.5	20.4
4 11	10 46.98	+ 2 51.4	2.051	2.896	12.7	20.7	4 11	10 36.90	+10 54.8	1.694	2.508	16.3	20.6
<b>24125</b>	Sapphazoe		3 6.4 97°58	1°6/ 4.8	18		<b>292652</b>	2006 <i>UR</i> <sub>51</sub>		3 6.4 270°87	1°7/ 4.7	17	
2 1	11 31.35	+ 7 41.8	2.030	2.861	12.6	19.2	2 1	11 32.11	+ 9 48.0	2.347	3.176	11.2	20.6
2 11	11 26.63	+ 8 25.4	1.961	2.870	9.3	19.0	2 11	11 27.08	+10 9.6	2.260	3.168	8.3	20.4
2 21	11 20.01	+ 9 17.6	1.916	2.878	5.5	18.8	2 21	11 20.27	+10 36.5	2.198	3.160	5.0	20.1
3 2	11 12.14	+10 12.8	1.899	2.887	2.0	18.5	3 2	11 12.26	+11 4.7	2.165	3.152	2.0	19.9
3 12	11 3.92	+11 4.7	1.912	2.895	3.4	18.6	3 12	11 3.82	+11 29.3	2.161	3.144	3.2	20.0
3 22	10 56.25	+11 47.6	1.952	2.904	7.1	18.9	3 22	10 55.77	+11 46.5	2.187	3.136	6.6	20.2
4 1	10 49.94	+12 17.7	2.019	2.912	10.6	19.1	4 1	10 48.90	+11 53.3	2.239	3.128	9.9	20.4
4 11	10 45.57	+12 32.9	2.109	2.920	13.6	19.3	4 11	10 43.78	+11 48.2	2.315	3.120	12.8	20.5
<b>502026</b>	2015 <i>AW</i> <sub>96</sub>		3 6.4 53°77	4°9/29.6	17		<b>430685</b>	2003 <i>WP</i> <sub>99</sub>		3 6.4 171°39	5°5/ 13.2	17	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>501468</b>	2014 <i>BU</i> <sub>18</sub>		3 6.4 45°55'	3°0'	9.5	17	<b>321225</b>	2008 <i>YN</i> <sub>167</sub>		3 6.4 24°85'	4°7'	11.1	17
2 1	11 30.48	- 4 58.6	2.225	3.009	13.2	21.0	2 1	11 30.50	- 9 47.5	2.144	2.906	14.4	20.2
2 11	11 25.91	- 5 6.4	2.141	3.013	10.5	20.8	2 11	11 26.07	-10 4.9	2.056	2.907	11.7	20.0
2 21	11 19.58	- 4 59.0	2.081	3.017	7.3	20.6	2 21	11 19.75	-10 3.5	1.990	2.908	8.7	19.8
3 2	11 12.04	- 4 37.7	2.047	3.021	4.2	20.4	3 2	11 12.13	- 9 43.4	1.949	2.909	5.9	19.6
3 12	11 4.10	- 4 5.7	2.041	3.025	3.2	20.4	3 12	11 4.03	- 9 7.3	1.936	2.911	4.7	19.6
3 22	10 56.58	- 3 27.5	2.065	3.030	5.7	20.5	3 22	10 56.33	- 8 19.7	1.951	2.912	6.4	19.7
4 1	10 50.25	- 2 48.2	2.115	3.034	8.9	20.7	4 1	10 49.87	- 7 26.6	1.993	2.913	9.3	19.8
4 11	10 45.70	- 2 12.7	2.190	3.039	11.9	20.9	4 11	10 45.27	- 6 34.4	2.059	2.915	12.2	20.0
<b>224569</b>	2005 <i>XA</i> <sub>2</sub>		3 6.4 223°49'	0°8'	7.2	17	<b>111648</b>	2002 <i>AR</i> <sub>180</sub>		3 6.4 143°27'	2°3'	4.5	18
2 1	11 31.66	+ 1 0.7	1.943	2.756	13.8	21.0	2 1	11 36.05	+10 49.2	1.943	2.775	13.1	19.7
2 11	11 27.07	+ 1 22.8	1.857	2.753	10.5	20.8	2 11	11 30.24	+11 12.7	1.870	2.779	9.7	19.5
2 21	11 20.41	+ 1 59.3	1.796	2.750	6.6	20.6	2 21	11 22.28	+11 41.5	1.821	2.782	5.9	19.3
3 2	11 12.33	+ 2 46.5	1.761	2.747	2.4	20.3	3 2	11 12.90	+12 10.1	1.800	2.786	2.5	19.1
3 12	11 3.73	+ 3 38.9	1.754	2.744	2.3	20.3	3 12	11 3.10	+12 33.0	1.808	2.789	4.0	19.2
3 22	10 55.58	+ 4 30.3	1.777	2.741	6.5	20.5	3 22	10 53.92	+12 45.7	1.845	2.793	7.8	19.4
4 1	10 48.81	+ 5 14.9	1.825	2.737	10.5	20.8	4 1	10 46.29	+12 45.5	1.908	2.796	11.4	19.6
4 11	10 44.08	+ 5 48.3	1.897	2.734	13.9	21.0	4 11	10 40.85	+12 31.6	1.993	2.798	14.5	19.8
<b>351459</b>	2005 <i>MB</i> <sub>28</sub>		3 6.4 165°34'	4°0'	11.6	17	<b>407274</b>	2010 <i>EC</i> <sub>80</sub>		3 6.4 278°14'	1°3'	5.4	17
2 1	11 29.25	-11 18.6	2.848	3.586	11.7	21.6	2 1	11 32.51	+ 5 3.6	1.455	2.295	16.2	21.8
2 11	11 24.69	-11 23.2	2.755	3.589	9.6	21.4	2 11	11 28.51	+ 5 52.3	1.365	2.278	12.2	21.5
2 21	11 18.70	-11 12.1	2.685	3.592	7.3	21.3	2 21	11 21.74	+ 6 58.5	1.297	2.261	7.4	21.2
3 2	11 11.75	-10 45.6	2.642	3.595	5.1	21.1	3 2	11 12.86	+ 8 15.6	1.255	2.244	2.3	20.8
3 12	11 4.47	-10 6.2	2.627	3.597	4.0	21.0	3 12	11 3.05	+ 9 34.1	1.239	2.226	4.0	20.9
3 22	10 57.48	- 9 17.5	2.643	3.599	5.2	21.1	3 22	10 53.70	+10 43.9	1.250	2.209	9.4	21.1
4 1	10 51.42	- 8 23.9	2.687	3.601	7.4	21.3	4 1	10 46.14	+11 36.9	1.284	2.191	14.4	21.4
4 11	10 46.77	- 7 30.5	2.756	3.603	9.8	21.4	4 11	10 41.32	+12 8.5	1.339	2.173	18.7	21.6
<b>297646</b>	2001 <i>TF</i> <sub>190</sub>		3 6.4 29°61'	15°3'	24.2	18	<b>65559</b>	2065 <i>T-2</i>		3 6.4 166°48'	0°5'	5.9	18
2 1	11 25.30	-31 54.8	1.191	1.878	27.3	19.7	2 1	11 36.66	+ 4 33.6	1.927	2.743	13.8	20.6
2 11	11 23.60	-32 48.5	1.133	1.891	24.9	19.5	2 11	11 30.72	+ 5 4.9	1.849	2.749	10.3	20.4
2 21	11 18.83	-32 51.7	1.085	1.906	22.1	19.3	2 21	11 22.61	+ 5 47.6	1.796	2.754	6.3	20.2
3 2	11 11.90	-31 56.8	1.051	1.922	19.1	19.2	3 2	11 13.02	+ 6 37.1	1.770	2.758	1.9	19.9
3 12	11 4.30	-30 3.4	1.034	1.940	16.6	19.1	3 12	11 2.95	+ 7 27.0	1.774	2.762	2.8	19.9
3 22	10 57.62	-27 20.2	1.037	1.958	15.3	19.1	3 22	10 53.46	+ 8 11.3	1.807	2.764	7.1	20.2
4 1	10 53.23	-24 4.1	1.061	1.977	15.8	19.2	4 1	10 45.51	+ 8 45.1	1.867	2.766	11.0	20.5
4 11	10 51.94	-20 37.2	1.107	1.998	17.8	19.4	4 11	10 39.76	+ 9 5.4	1.951	2.767	14.4	20.7
<b>81542</b>	2000 <i>HC</i> <sub>21</sub>		3 6.4 192°98'	0°0'	6.3	17	<b>286009</b>	2001 <i>SR</i> <sub>101</sub>		3 6.4 202°79'	1°1'	5.3	17
2 1	11 31.97	+ 2 48.4	2.575	3.379	11.1	20.0	2 1	11 32.59	+ 8 5.5	2.533	3.353	10.8	21.0
2 11	11 26.82	+ 3 30.1	2.484	3.377	8.3	19.8	2 11	11 27.29	+ 8 24.9	2.447	3.350	8.0	20.8
2 21	11 20.06	+ 4 22.5	2.418	3.374	5.1	19.6	2 21	11 20.34	+ 8 50.3	2.387	3.347	4.8	20.6
3 2	11 12.19	+ 5 21.9	2.382	3.370	1.6	19.3	3 2	11 12.29	+ 9 18.0	2.356	3.344	1.6	20.4
3 12	11 3.92	+ 6 23.3	2.377	3.365	2.1	19.4	3 12	11 3.86	+ 9 43.8	2.355	3.340	2.7	20.5
3 22	10 55.99	+ 7 21.5	2.402	3.360	5.6	19.6	3 22	10 55.83	+10 3.9	2.384	3.336	6.0	20.7
4 1	10 49.10	+ 8 11.9	2.457	3.353	8.8	19.8	4 1	10 48.89	+10 15.5	2.441	3.332	9.1	20.9
4 11	10 43.80	+ 8 51.5	2.536	3.346	11.6	20.0	4 11	10 43.59	+10 16.8	2.522	3.328	11.8	21.0
<b>459785</b>	2013 <i>RU</i> <sub>30</sub>		3 6.4 249°70'	0°7'	7.0	17	<b>337751</b>	2001 <i>UX</i> <sub>106</sub>		3 6.4 153°53'	0°5'	7.1	18
2 1	11 34.14	+ 2 16.8	1.947	2.760	13.8	20.5	2 1	11 29.40	+ 1 20.4	2.822	3.622	10.3	21.7
2 11	11 28.99	+ 2 23.0	1.854	2.750	10.5	20.3	2 11	11 24.74	+ 1 49.5	2.739	3.629	7.8	21.5
2 21	11 21.64	+ 2 41.4	1.785	2.740	6.6	20.0	2 21	11 18.71	+ 2 28.4	2.682	3.635	4.8	21.4
3 2	11 12.74	+ 3 9.1	1.743	2.730	2.4	19.8	3 2	11 11.77	+ 3 14.2	2.655	3.642	1.7	21.1
3 12	11 3.21	+ 3 41.3	1.730	2.719	2.4	19.7	3 12	11 4.55	+ 4 2.8	2.658	3.647	1.7	21.1
3 22	10 54.10	+ 4 12.8	1.745	2.709	6.7	20.0	3 22	10 57.67	+ 4 50.1	2.691	3.653	4.8	21.4
4 1	10 46.39	+ 4 38.7	1.788	2.698	10.8	20.2	4 1	10 51.73	+ 5 32.3	2.754	3.658	7.7	21.6
4 11	10 40.80	+ 4 54.9	1.853	2.687	14.3	20.4	4 11	10 47.18	+ 6 6.2	2.841	3.662	10.2	21.7
<b>267073</b>	1999 <i>TT</i> <sub>82</sub>		3 6.4 7°46'	1°9'	4.8	17	<b>282191</b>	2001 <i>TU</i> <sub>213</sub>		3 6.4 58°36'	2°4'	8.1	18
2 1	11 32.03	+ 8 33.7	1.835	2.672	13.5	20.8	2 1	11 36.94	- 0 31.8	1.609	2.420	16.3	20.4
2 11	11 27.40	+ 9 8.2	1.760	2.672	10.0	20.6	2 11	11 31.16	- 0 55.7	1.545	2.435	12.6	20.2
2 21	11 20.62	+ 9 51.2	1.709	2.673	6.0	20.4	2 21	11 22.95	- 1 4.4	1.502	2.451	8.3	20.0
3 2	11 12.39	+10 37.1	1.686	2.673	2.2	20.1	3 2	11 13.13	- 0 59.7	1.485	2.467	3.9	19.8
3 12	11 3.70	+11 19.2	1.690	2.674	3.8	20.2	3 12	11 2.89	- 0 45.8	1.496	2.484	3.1	19.8
3 22	10 55.56	+11 51.7	1.722	2.675	7.8	20.5	3 22	10 53.44	- 0 27.7	1.534	2.500	7.1	20.0
4 1	10 48.93	+12 10.7	1.780	2.675	11.6	20.7	4 1	10 45.84	- 0 10.8	1.598	2.517	11.2	20.3
4 11	10 44.46	+12 14.2	1.859	2.677	14.9	20.9	4 11	10 40.76	+ 0 0.1	1.685	2.534	14.8	20.6
<b>92899</b>	2000 <i>RW</i> <sub>4</sub>		3 6.4 285°23'	6°3'	2.0	18	<b>425515</b>	2010 <i>JD</i> <sub>150</sub>		3 6.4 253°29'	2°9'	9.8	17
2 1	11 42.85	+22 20.4	1.814	2.649	13.7	18.5	2 1	11 28.18	- 6 36.2	2.344	3.122	12.8	21.3
2 11	11 35.70	+22 44.5	1.731	2.634	10.7	18.3	2 11	11 24.21	- 6 18.5	2.250	3.117	10.2	21.1
2 21	11 25.83	+23 3.4	1.672	2.619	7.8	18.1	2 21	11 18.57	- 5 43.6	2.178	3.112	7.2	20.9
3 2	11 14.04	+23 9.0	1.639	2.604	6.3	17.9	3 2	11 11.77	- 4 53.1	2.133	3.107	4.1	20.7
3 12	11 1.62	+22 54.9	1.636	2.589	7.8	18.0	3 12	11 4.54	- 3 51.1	2.117	3.102	3.0	20.6
3 22	10 49.92	+22 18.3	1.660	2.574	11.0	18.1	3 22	10 57.64	- 2 42.9	2.131	3.097	5.4	20.7
4 1	10 40.15	+21 19.7	1.709	2.560	14.4	18.3	4 1	10 51.81	- 1 34.7	2.172	3.092	8.6	20.9
4 11	10 33.11	+20 2.8	1.779	2.545	17.5	18.5	4 11	10 47.62	- 0 32.2	2.238	3.087	11.6	21.1
<b>320829</b>	2008 <i>FY</i> <sub>43</sub>		3 6.4 151°54'	1°3'	7.9	18	<b>394036</b>	2005 <i>WA</i> <sub>69</sub>		3 6.4 198°93'	3°7'	2.9	18

EPHEMERIDES

3 6.4

3 6.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>5968</b>	Trauger		3 6.4	2°55'	8°2'/14.6	18	<b>409984</b>	2006 VV <sub>111</sub>		3 6.4	121°62'	2°2'/4.4	18
2 1	11 26.88	-21 15.2	1.099	1.861	25.2	17.0	2 1	11 35.71	+9 43.2	2.063	2.890	12.6	21.5
2 11	11 24.91	-20 12.6	1.018	1.860	21.6	16.7	2 11	11 29.78	+10 26.8	2.001	2.908	9.2	21.3
2 21	11 19.77	-18 11.0	0.953	1.860	17.0	16.4	2 21	11 21.91	+11 16.6	1.964	2.925	5.5	21.1
3 2	11 12.28	-15 7.2	0.907	1.860	12.0	16.2	3 2	11 12.80	+12 6.8	1.956	2.942	2.4	21.0
3 12	11 3.90	-11 10.6	0.884	1.860	8.4	16.0	3 12	11 3.41	+12 51.2	1.977	2.958	3.8	21.1
3 22	10 56.29	-6 43.8	0.888	1.861	9.7	16.0	3 22	10 54.68	+13 24.9	2.028	2.973	7.4	21.3
4 1	10 50.96	-2 16.9	0.918	1.862	14.5	16.3	4 1	10 47.42	+13 44.9	2.106	2.988	10.7	21.6
4 11	10 48.88	+1 43.1	0.972	1.862	19.6	16.6	4 11	10 42.20	+13 50.0	2.206	3.002	13.6	21.8
<b>119787</b>	2002 AN <sub>76</sub>		3 6.4	107°57'	0°1'/6.3	18	<b>182289</b>	2001 KN <sub>59</sub>		3 6.4	209°36'	5°2'/12.3	17
2 1	11 30.29	+4 15.0	2.457	3.272	11.2	20.5	2 1	11 31.98	-13 48.5	2.404	3.132	13.9	20.2
2 11	11 25.59	+4 36.6	2.380	3.279	8.4	20.3	2 11	11 27.09	-13 48.4	2.300	3.125	11.6	20.0
2 21	11 19.30	+5 7.0	2.327	3.285	5.1	20.1	2 21	11 20.39	-13 27.6	2.218	3.117	9.0	19.8
3 2	11 11.98	+5 42.8	2.303	3.291	1.6	19.9	3 2	11 12.38	-12 45.8	2.162	3.109	6.4	19.6
3 12	11 4.35	+6 19.6	2.308	3.297	2.1	19.9	3 12	11 3.85	-11 45.5	2.134	3.100	5.2	19.5
3 22	10 57.13	+6 53.2	2.344	3.303	5.5	20.2	3 22	10 55.62	-10 31.4	2.135	3.090	6.3	19.6
4 1	10 51.01	+7 19.9	2.407	3.309	8.7	20.4	4 1	10 48.49	-9 10.1	2.164	3.079	8.9	19.7
4 11	10 46.49	+7 37.2	2.494	3.315	11.5	20.6	4 11	10 43.12	-7 48.9	2.219	3.068	11.7	19.9
<b>256301</b>	2006 WF <sub>150</sub>		3 6.4	54°35'	2°6'/4.3	18	<b>443930</b>	2002 SO <sub>56</sub>		3 6.4	141°84'	4°7'/2.6	18
2 1	11 33.71	+9 17.5	1.478	2.326	15.6	20.5	2 1	11 39.84	+15 11.3	1.699	2.538	14.3	21.9
2 11	11 28.88	+10 4.8	1.427	2.344	11.4	20.3	2 11	11 33.29	+16 13.5	1.640	2.551	10.6	21.7
2 21	11 21.57	+11 0.9	1.398	2.362	6.8	20.1	2 21	11 24.24	+17 18.4	1.605	2.563	6.9	21.5
3 2	11 12.71	+11 58.0	1.395	2.381	2.9	19.9	3 2	11 13.56	+18 17.3	1.597	2.574	4.7	21.4
3 12	11 3.51	+12 47.6	1.419	2.401	4.7	20.1	3 12	11 2.48	+19 1.8	1.618	2.585	6.5	21.5
3 22	10 55.22	+13 23.1	1.469	2.420	9.0	20.4	3 22	10 52.26	+19 26.7	1.666	2.594	10.0	21.7
4 1	10 48.85	+13 40.8	1.543	2.440	13.1	20.6	4 1	10 43.96	+19 30.1	1.740	2.603	13.6	22.0
4 11	10 45.02	+13 39.7	1.638	2.460	16.4	20.9	4 11	10 38.25	+19 13.1	1.833	2.611	16.6	22.2
<b>408757</b>	1995 SS <sub>19</sub>		3 6.4	302°57'	2°6'/4.6	18	<b>510362</b>	2011 SM <sub>254</sub>		3 6.4	222°70'	5°9'/14.3	17
2 1	11 35.35	+10 12.1	1.527	2.372	15.3	20.7	2 1	11 30.34	-18 47.0	3.028	3.711	12.2	22.1
2 11	11 30.38	+10 39.3	1.449	2.365	11.4	20.5	2 11	11 25.59	-19 8.7	2.918	3.700	10.5	21.9
2 21	11 22.72	+11 14.7	1.394	2.358	7.0	20.2	2 21	11 19.36	-19 12.6	2.829	3.689	8.7	21.8
3 2	11 13.14	+11 51.7	1.364	2.351	2.9	19.9	3 2	11 12.06	-18 57.7	2.765	3.678	6.9	21.7
3 12	11 2.87	+12 22.4	1.361	2.344	4.7	20.0	3 12	11 4.31	-18 24.7	2.728	3.666	6.0	21.6
3 22	10 53.25	+12 40.8	1.385	2.337	9.3	20.3	3 22	10 56.77	-17 36.5	2.721	3.653	6.4	21.6
4 1	10 45.50	+12 42.8	1.433	2.331	13.8	20.5	4 1	10 50.09	-16 37.3	2.741	3.640	7.9	21.7
4 11	10 40.43	+12 27.3	1.501	2.325	17.6	20.7	4 11	10 44.80	-15 32.6	2.787	3.627	9.9	21.8
<b>298317</b>	2003 EL <sub>43</sub>		3 6.4	311°96'	5°3'/2.4	18	<b>460474</b>	2014 SD <sub>267</sub>		3 6.4	225°48'	2°6'/4.3	17
2 1	11 40.60	+21 40.3	2.099	2.930	12.3	19.6	2 1	11 36.52	+10 23.4	1.791	2.626	13.9	21.9
2 11	11 33.69	+21 52.9	2.011	2.913	9.5	19.4	2 11	11 30.95	+11 1.7	1.707	2.618	10.3	21.6
2 21	11 24.47	+22 0.8	1.948	2.896	6.7	19.2	2 21	11 22.95	+11 47.7	1.647	2.609	6.3	21.4
3 2	11 13.64	+21 57.6	1.913	2.880	5.3	19.0	3 2	11 13.23	+12 34.9	1.614	2.600	2.8	21.1
3 12	11 2.28	+21 38.4	1.908	2.864	6.6	19.1	3 12	11 2.86	+13 16.0	1.610	2.591	4.5	21.2
3 22	10 51.51	+21 0.7	1.931	2.848	9.5	19.2	3 22	10 53.02	+13 45.1	1.634	2.581	8.7	21.4
4 1	10 42.36	+20 5.0	1.980	2.832	12.6	19.4	4 1	10 44.81	+13 58.2	1.684	2.571	12.7	21.6
4 11	10 35.53	+18 53.6	2.052	2.817	15.5	19.6	4 11	10 39.00	+13 54.1	1.755	2.560	16.2	21.8
<b>205065</b>	1999 RV <sub>63</sub>		3 6.4	261°84'	0°7'/7.0	18	<b>81843</b>	2000 KX <sub>53</sub>		3 6.4	192°79'	2°7'/3.1	17
2 1	11 36.54	+2 11.6	1.867	2.677	14.4	20.6	2 1	11 31.77	+10 42.5	2.459	3.288	10.8	20.1
2 11	11 31.08	+2 19.0	1.759	2.654	11.0	20.3	2 11	11 26.80	+11 57.2	2.377	3.286	7.9	19.9
2 21	11 23.14	+2 39.7	1.675	2.630	7.0	20.0	2 21	11 20.13	+13 18.7	2.322	3.283	4.8	19.7
3 2	11 13.31	+3 10.8	1.618	2.605	2.5	19.7	3 2	11 12.29	+14 40.8	2.296	3.279	2.7	19.6
3 12	11 2.58	+3 47.5	1.589	2.579	2.6	19.6	3 12	11 4.04	+15 57.0	2.302	3.275	4.2	19.7
3 22	10 52.11	+4 24.0	1.590	2.553	7.3	19.9	3 22	10 56.15	+17 1.5	2.337	3.269	7.3	19.8
4 1	10 43.05	+4 54.4	1.617	2.526	11.8	20.1	4 1	10 49.37	+17 50.4	2.399	3.264	10.3	20.0
4 11	10 36.31	+5 14.3	1.667	2.498	15.8	20.3	4 11	10 44.27	+18 22.0	2.485	3.257	12.9	20.2
<b>298804</b>	2004 RZ <sub>13</sub>		3 6.4	188°98'	0°8'/7.2	18	<b>32549</b>	Taricco		3 6.4	185°18'	0°3'/6.1	18
2 1	11 35.39	+0 47.2	1.815	2.624	14.8	21.9	2 1	11 32.76	+3 51.4	2.158	2.973	12.5	20.5
2 11	11 30.00	+1 10.8	1.730	2.624	11.3	21.7	2 11	11 27.70	+4 28.4	2.074	2.973	9.4	20.3
2 21	11 22.31	+1 50.0	1.669	2.623	7.1	21.4	2 21	11 20.75	+5 16.8	2.014	2.973	5.7	20.0
3 2	11 13.00	+2 40.9	1.635	2.621	2.6	21.1	3 2	11 12.50	+6 12.3	1.983	2.972	1.7	19.8
3 12	11 3.09	+3 37.5	1.629	2.619	2.5	21.1	3 12	11 3.79	+7 9.0	1.982	2.970	2.5	19.8
3 22	10 53.71	+4 32.8	1.652	2.616	7.0	21.4	3 22	10 55.53	+8 1.1	2.010	2.968	6.4	20.1
4 1	10 45.88	+5 20.6	1.702	2.612	11.2	21.6	4 1	10 48.54	+8 43.8	2.066	2.966	10.1	20.3
4 11	10 40.33	+5 56.0	1.775	2.608	14.9	21.9	4 11	10 43.43	+9 13.8	2.145	2.963	13.2	20.5
<b>432040</b>	2008 WW <sub>84</sub>		3 6.4	262°78'	7°1'/13.8	17	<b>369303</b>	2009 SE <sub>39</sub>		3 6.4	171°22'	1°4'/7.9	16
2 1	11 30.78	-17 16.1	2.267	2.980	15.0	21.2	2 1	11 31.59	-1 45.2	2.261	3.056	12.7	22.5
2 11	11 26.39	-17 49.8	2.164	2.969	12.9	21.0	2 11	11 26.74	-1 17.7	2.175	3.059	9.8	22.4
2 21	11 20.05	-18 1.9	2.081	2.959	10.5	20.8	2 21	11 20.12	-0 35.6	2.114	3.061	6.4	22.1
3 2	11 12.30	-17 50.4	2.022	2.948	8.3	20.7	3 2	11 12.30	+0 18.1	2.080	3.064	2.8	21.9
3 12	11 3.93	-17 16.2	1.990	2.937	7.1	20.6	3 12	11 4.06	+1 18.5	2.076	3.065	2.1	21.9
3 22	10 55.83	-16 22.5	1.984	2.925	7.8	20.6	3 22	10 56.23	+2 19.9	2.102	3.066	5.6	22.1
4 1	10 48.89	-15 15.6	2.005	2.914	9.8	20.7	4 1	10 49.60	+3 16.7	2.156	3.067	9.1	22.3
4 11	10 43.81	-14 2.9	2.050	2.903	12.4	20.8	4 11	10 44.74	+4 4.2	2.234	3.067	12.2	22.5
<b>101856</b>	1999 JA <sub>121</sub>		3 6.4	254°27'	5°2'/28.7	18	<b>309249</b>	2007 RP <sub>38</sub>		3 6.4	169°18'	0°6'/5.8	18
2 1	11 30.87	+21 5.4	2.528	3.368	10.1	20.0	2 1	11 34.31	+3 57.8	2.065	2.880		

EPHEMERIDES

3 6.4

3 6.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>346875</b>	2009 <i>FD</i> <sub>50</sub>		3 6.4	0°88	6°8/28.2	18	<b>280253</b>	2002 <i>XM</i> <sub>46</sub>		3 6.5	174°75	0°5/	5.8 17
2 1	11 34.50	+26 8.4	2.217	3.055	11.4	20.5	2 1	11 30.91	+ 5 34.0	2.967	3.776	9.6	21.8
2 11	11 29.00	+27 3.2	2.157	3.055	9.1	20.3	2 11	11 25.84	+ 6 4.0	2.882	3.779	7.1	21.6
2 21	11 21.50	+27 51.4	2.121	3.055	7.3	20.2	2 21	11 19.41	+ 6 41.0	2.823	3.781	4.3	21.4
3 2	11 12.71	+28 26.0	2.112	3.055	6.9	20.2	3 2	11 12.08	+ 7 21.7	2.795	3.783	1.3	21.2
3 12	11 3.59	+28 41.3	2.131	3.055	8.2	20.2	3 12	11 4.46	+ 8 2.2	2.797	3.784	2.0	21.3
3 22	10 55.11	+28 34.7	2.176	3.055	10.4	20.4	3 22	10 57.16	+ 8 38.7	2.831	3.785	5.0	21.5
4 1	10 48.10	+28 6.4	2.245	3.056	12.8	20.5	4 1	10 50.77	+ 9 8.3	2.893	3.785	7.8	21.7
4 11	10 43.15	+27 18.7	2.334	3.056	14.9	20.7	4 11	10 45.74	+ 9 28.8	2.980	3.785	10.2	21.8
<b>187291</b>	2005 <i>TY</i> <sub>99</sub>		3 6.4	256°07	3°4/	3.5 18	<b>285217</b>	1997 <i>EK</i> <sub>28</sub>		3 6.5	245°58	0°7/	5.9 17
2 1	11 35.88	+13 20.8	1.969	2.805	12.7	20.0	2 1	11 34.77	+ 5 22.4	1.956	2.777	13.4	21.4
2 11	11 30.34	+13 57.5	1.879	2.790	9.5	19.7	2 11	11 29.55	+ 5 48.9	1.860	2.762	10.1	21.1
2 21	11 22.54	+14 38.5	1.814	2.775	6.0	19.5	2 21	11 22.10	+ 6 26.5	1.787	2.747	6.2	20.8
3 2	11 13.11	+15 17.8	1.777	2.759	3.4	19.3	3 2	11 13.02	+ 7 10.9	1.742	2.731	1.9	20.5
3 12	11 3.04	+15 48.6	1.768	2.743	5.0	19.4	3 12	11 3.26	+ 7 56.2	1.727	2.715	2.9	20.6
3 22	10 53.41	+16 5.9	1.788	2.726	8.7	19.5	3 22	10 53.87	+ 8 36.2	1.740	2.698	7.3	20.8
4 1	10 45.26	+16 6.7	1.833	2.709	12.4	19.7	4 1	10 45.87	+ 9 6.0	1.780	2.680	11.4	21.0
4 11	10 39.31	+15 50.4	1.900	2.692	15.6	19.9	4 11	10 40.02	+ 9 22.4	1.842	2.662	15.0	21.2
<b>111061</b>	2001 <i>VZ</i> <sub>43</sub>		3 6.4	171°26	4°9/13.6	18	<b>187604</b>	2006 <i>XN</i> <sub>63</sub>		3 6.5	39°01	4°9/	3.1 18
2 1	11 29.47	-16 34.3	3.188	3.884	11.4	20.6	2 1	11 38.12	+16 31.1	1.531	2.379	15.1	19.4
2 11	11 24.78	-16 42.4	3.090	3.888	9.6	20.4	2 11	11 32.28	+17 1.3	1.470	2.385	11.3	19.2
2 21	11 18.76	-16 34.1	3.015	3.891	7.7	20.3	2 21	11 23.77	+17 31.9	1.432	2.392	7.4	19.0
3 2	11 11.86	-16 9.0	2.966	3.893	5.9	20.2	3 2	11 13.50	+17 55.1	1.420	2.398	4.9	18.9
3 12	11 4.63	-15 28.9	2.946	3.896	4.9	20.1	3 12	11 2.80	+18 3.7	1.435	2.405	6.6	19.0
3 22	10 57.67	-14 36.8	2.955	3.897	5.5	20.2	3 22	10 53.01	+17 53.7	1.476	2.412	10.3	19.2
4 1	10 51.56	-13 37.0	2.993	3.898	7.1	20.3	4 1	10 45.28	+17 24.4	1.541	2.420	14.1	19.5
4 11	10 46.73	-12 34.6	3.057	3.899	9.0	20.4	4 11	10 40.28	+16 37.5	1.626	2.428	17.4	19.7
<b>490011</b>	2008 <i>SS</i> <sub>237</sub>		3 6.4	118°93	0°5/	6.1 18	<b>466151</b>	2012 <i>HU</i> <sub>54</sub>		3 6.5	237°30	4°4/	2.0 16
2 1	11 37.90	+ 4 34.0	1.602	2.426	15.7	21.6	2 1	11 33.93	+16 14.9	2.079	2.920	12.0	21.9
2 11	11 31.92	+ 5 2.0	1.538	2.442	11.7	21.4	2 11	11 28.76	+17 12.8	1.998	2.910	9.0	21.7
2 21	11 23.46	+ 5 42.9	1.497	2.456	7.1	21.2	2 21	11 21.51	+18 13.3	1.943	2.900	6.0	21.5
3 2	11 13.35	+ 6 31.1	1.482	2.471	2.1	20.9	3 2	11 12.81	+19 9.2	1.915	2.890	4.4	21.4
3 12	11 2.83	+ 7 19.2	1.496	2.485	3.1	21.0	3 12	11 3.58	+19 53.5	1.917	2.879	6.0	21.5
3 22	10 53.13	+ 8 0.5	1.538	2.498	7.9	21.3	3 22	10 54.81	+20 21.3	1.946	2.868	9.1	21.6
4 1	10 45.31	+ 8 29.9	1.606	2.510	12.1	21.6	4 1	10 47.44	+20 29.7	2.000	2.857	12.3	21.8
4 11	10 40.06	+ 8 44.4	1.695	2.522	15.7	21.8	4 11	10 42.13	+20 19.0	2.075	2.845	15.2	22.0
<b>174133</b>	2002 <i>NX</i> <sub>10</sub>		3 6.4	268°84	1°1/	5.4 17	<b>414909</b>	2010 <i>XL</i> <sub>76</sub>		3 6.5	113°40	5°3/	11.6 18
2 1	11 32.56	+ 5 11.4	1.727	2.559	14.5	20.6	2 1	11 32.60	-11 23.9	1.921	2.679	16.0	20.8
2 11	11 28.20	+ 5 57.1	1.631	2.540	10.9	20.4	2 11	11 27.80	-11 32.3	1.843	2.689	13.1	20.6
2 21	11 21.41	+ 6 57.3	1.559	2.521	6.6	20.1	2 21	11 20.92	-11 17.9	1.785	2.700	9.8	20.5
3 2	11 12.80	+ 8 6.7	1.513	2.501	2.1	19.7	3 2	11 12.61	-10 41.1	1.753	2.711	6.7	20.3
3 12	11 3.40	+ 9 17.3	1.495	2.481	3.5	19.8	3 12	11 3.85	- 9 45.5	1.747	2.721	5.3	20.2
3 22	10 54.36	+10 20.8	1.504	2.461	8.3	20.0	3 22	10 55.62	- 8 37.2	1.770	2.731	6.9	20.3
4 1	10 46.81	+11 10.5	1.539	2.441	12.8	20.2	4 1	10 48.85	- 7 23.8	1.819	2.740	10.0	20.5
4 11	10 41.62	+11 42.1	1.596	2.420	16.7	20.4	4 11	10 44.17	- 6 13.3	1.893	2.750	13.1	20.7
<b>356719</b>	2011 <i>UT</i> <sub>175</sub>		3 6.4	251°22	1°2/	7.3 18	<b>378299</b>	2007 <i>EX</i> <sub>180</sub>		3 6.5	305°88	3°7/	3.9 17
2 1	11 35.35	+ 1 2.6	1.603	2.421	16.0	21.1	2 1	11 36.86	+14 7.0	1.680	2.523	14.2	19.8
2 11	11 30.37	+ 1 8.9	1.514	2.412	12.3	20.8	2 11	11 31.55	+14 25.8	1.586	2.499	10.7	19.6
2 21	11 22.77	+ 1 31.4	1.447	2.402	7.9	20.6	2 21	11 23.54	+14 47.7	1.515	2.476	6.8	19.3
3 2	11 13.23	+ 2 6.8	1.405	2.391	3.0	20.2	3 2	11 13.53	+15 6.3	1.471	2.454	3.8	19.0
3 12	11 2.90	+ 2 49.5	1.391	2.381	2.7	20.2	3 12	11 2.66	+15 14.8	1.454	2.431	5.5	19.1
3 22	10 53.05	+ 3 32.5	1.404	2.370	7.7	20.5	3 22	10 52.26	+15 8.1	1.464	2.409	9.7	19.3
4 1	10 44.91	+ 4 9.2	1.443	2.359	12.4	20.7	4 1	10 43.57	+14 43.8	1.499	2.387	13.9	19.5
4 11	10 39.34	+ 4 34.3	1.503	2.348	16.5	20.9	4 11	10 37.49	+14 2.0	1.555	2.365	17.7	19.7
<b>136821</b>	1997 <i>NR</i> <sub>3</sub>		3 6.5	224°61	2°0/	8.3 18	<b>8159</b>	<i>Fukuoka</i>		3 6.5	85°48	4°1/	2.2 18
2 1	11 32.75	- 2 4.2	1.913	2.714	14.5	20.6	2 1	11 34.02	+12 55.6	1.855	2.697	13.2	17.3
2 11	11 28.00	- 1 53.4	1.823	2.709	11.2	20.4	2 11	11 28.67	+14 28.9	1.813	2.727	9.6	17.1
2 21	11 21.09	- 1 26.0	1.756	2.703	7.4	20.1	2 21	11 21.30	+16 6.1	1.796	2.756	6.1	16.9
3 2	11 12.66	- 0 44.5	1.715	2.698	3.5	19.9	3 2	11 12.69	+17 38.2	1.807	2.785	4.1	16.9
3 12	11 3.64	+ 0 6.3	1.703	2.692	2.6	19.8	3 12	11 3.87	+18 56.6	1.848	2.814	5.9	17.0
3 22	10 55.05	+ 1 0.3	1.719	2.685	6.5	20.0	3 22	10 55.82	+19 55.5	1.916	2.842	9.1	17.3
4 1	10 47.86	+ 1 50.9	1.762	2.679	10.5	20.2	4 1	10 49.39	+20 32.3	2.010	2.869	12.2	17.5
4 11	10 42.77	+ 2 32.6	1.828	2.672	14.1	20.4	4 11	10 45.10	+20 47.4	2.124	2.896	14.8	17.8
<b>495411</b>	2014 <i>RJ</i> <sub>41</sub>		3 6.5	117°23	4°4/	2.4 18	<b>502573</b>	2015 <i>BB</i> <sub>503</sub>		3 6.5	141°20	1°9/	8.4 17
2 1	11 35.65	+14 49.8	1.825	2.667	13.3	21.2	2 1	11 31.67	- 2 22.0	2.153	2.948	13.3	22.0
2 11	11 30.03	+15 57.9	1.769	2.682	9.9	21.0	2 11	11 26.89	- 2 7.2	2.072	2.954	10.2	21.8
2 21	11 22.20	+17 9.0	1.738	2.697	6.4	20.8	2 21	11 20.27	- 1 37.5	2.014	2.960	6.8	21.6
3 2	11 12.96	+18 14.8	1.734	2.711	4.4	20.7	3 2	11 12.41	- 0 55.3	1.983	2.965	3.2	21.4
3 12	11 3.39	+19 7.4	1.759	2.724	6.1	20.9	3 12	11 4.14	- 0 5.4	1.981	2.970	2.4	21.3
3 22	10 54.56	+19 41.5	1.811	2.738	9.4	21.1	3 22	10 56.33	+ 0 46.9	2.009	2.975	5.7	21.5
4 1	10 47.41	+19 54.9	1.888	2.750	12.7	21.3	4 1	10 49.77	+ 1 36.0	2.064	2.979	9.3	21.8
4 11	10 42.55	+19 48.3	1.986	2.763	15.5	21.5	4 11	10 45.06	+ 2 17.1	2.143	2.983	12.4	22.0
<b>415842</b>	2001 <i>SM</i> <sub>7</sub>		3 6.5	118°40	0°4/	6.0 18	<b>192013</b>	2005 <i>YR</i> <sub>61</sub>		3 6.5	264°84	6°6/	12.2 17

EPHEMERIDES

3 6.5

3 6.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>70244</b>	1999 <i>RL</i> <sub>75</sub>		3 6.5 293°21	0°9/ 7.1 18			<b>332750</b>	2009 <i>TY</i> <sub>27</sub>		3 6.5 80°42	5°6/29.9 18		
2 1	11 33.86	+ 1 54.0	1.508	2.336	16.4	19.7	2 1	11 33.44	+18 20.2	1.849	2.697	12.9	20.1
2 11	11 29.51	+ 1 58.2	1.414	2.318	12.6	19.4	2 11	11 28.40	+19 37.8	1.800	2.713	9.7	20.0
2 21	11 22.41	+ 2 18.4	1.342	2.299	8.0	19.1	2 21	11 21.24	+20 54.9	1.775	2.729	6.8	19.8
3 2	11 13.21	+ 2 51.6	1.294	2.281	3.0	18.8	3 2	11 12.72	+22 2.7	1.778	2.745	5.6	19.8
3 12	11 3.07	+ 3 31.9	1.273	2.263	2.9	18.7	3 12	11 3.90	+22 53.8	1.808	2.761	7.2	19.9
3 22	10 53.33	+ 4 12.1	1.279	2.246	8.2	19.0	3 22	10 55.83	+23 23.4	1.865	2.777	10.1	20.1
4 1	10 45.33	+ 4 45.1	1.309	2.228	13.2	19.2	4 1	10 49.38	+23 30.2	1.946	2.792	13.1	20.3
4 11	10 40.01	+ 5 5.6	1.360	2.211	17.6	19.4	4 11	10 45.14	+23 15.7	2.047	2.808	15.6	20.6
<b>57693</b>	2001 <i>UD</i> <sub>76</sub>		3 6.5 145°32	1°2/ 4.9 18			<b>503605</b>	2016 <i>GP</i> <sub>96</sub>		3 6.5 215°45	1°2/ 5.2 17		
2 1	11 29.94	+ 7 34.4	2.811	3.630	9.8	20.2	2 1	11 30.48	+ 5 24.0	1.944	2.774	13.2	21.9
2 11	11 25.18	+ 8 15.3	2.736	3.639	7.2	20.0	2 11	11 26.25	+ 6 18.3	1.864	2.772	9.8	21.7
2 21	11 19.04	+ 9 2.5	2.687	3.648	4.3	19.8	2 21	11 20.00	+ 7 24.8	1.808	2.770	5.9	21.5
3 2	11 12.00	+ 9 52.0	2.668	3.656	1.5	19.6	3 2	11 12.38	+ 8 37.9	1.779	2.768	1.9	21.2
3 12	11 4.69	+10 39.2	2.680	3.664	2.6	19.7	3 12	11 4.26	+ 9 50.1	1.780	2.766	3.2	21.3
3 22	10 57.75	+11 20.3	2.722	3.671	5.5	19.9	3 22	10 56.61	+10 54.4	1.808	2.763	7.3	21.5
4 1	10 51.78	+11 52.0	2.792	3.678	8.3	20.1	4 1	10 50.32	+11 45.2	1.863	2.761	11.1	21.7
4 11	10 47.22	+12 12.7	2.887	3.685	10.7	20.3	4 11	10 46.02	+12 19.4	1.941	2.758	14.4	22.0
<b>498344</b>	2007 <i>VX</i> <sub>258</sub>		3 6.5 173°73	2°8/ 1.9 17			<b>312024</b>	2007 <i>RE</i> <sub>86</sub>		3 6.5 198°75	0°1/ 6.3 18		
2 1	11 30.94	+16 19.8	3.570	4.395	7.8	24.4	2 1	11 35.49	+ 3 30.1	1.979	2.793	13.6	21.9
2 11	11 25.68	+17 13.4	3.495	4.399	5.8	24.3	2 11	11 29.97	+ 4 0.8	1.892	2.790	10.2	21.7
2 21	11 19.25	+18 7.8	3.449	4.403	3.8	24.2	2 21	11 22.30	+ 4 43.9	1.828	2.786	6.3	21.4
3 2	11 12.05	+18 58.8	3.433	4.405	2.8	24.1	3 2	11 13.11	+ 5 35.3	1.793	2.781	1.9	21.1
3 12	11 4.61	+19 42.7	3.449	4.407	3.9	24.2	3 12	11 3.35	+ 6 28.8	1.787	2.776	2.6	21.2
3 22	10 57.46	+20 16.7	3.496	4.409	5.8	24.3	3 22	10 54.05	+ 7 18.3	1.810	2.769	6.9	21.4
4 1	10 51.11	+20 38.8	3.571	4.409	7.9	24.4	4 1	10 46.17	+ 7 58.3	1.861	2.762	10.9	21.6
4 11	10 45.94	+20 48.7	3.670	4.409	9.6	24.6	4 11	10 40.42	+ 8 25.4	1.934	2.755	14.3	21.8
<b>500568</b>	2012 <i>UM</i> <sub>65</sub>		3 6.5 126°36	2°4/ 3.6 17			<b>229499</b>	2005 <i>VW</i> <sub>47</sub>		3 6.5 195°01	0°4/ 6.9 16		
2 1	11 30.77	+11 53.9	2.609	3.439	10.2	21.9	2 1	11 32.14	+ 1 28.0	2.345	3.149	12.0	22.1
2 11	11 25.88	+12 36.9	2.540	3.449	7.4	21.8	2 11	11 27.17	+ 2 2.6	2.255	3.147	9.1	21.9
2 21	11 19.50	+13 23.5	2.497	3.458	4.6	21.6	2 21	11 20.44	+ 2 49.7	2.190	3.144	5.7	21.6
3 2	11 12.14	+14 9.2	2.484	3.467	2.4	21.4	3 2	11 12.51	+ 3 45.5	2.153	3.140	1.9	21.4
3 12	11 4.52	+14 49.0	2.500	3.476	3.7	21.5	3 12	11 4.12	+ 4 45.0	2.146	3.136	2.0	21.4
3 22	10 57.32	+15 19.3	2.546	3.484	6.5	21.7	3 22	10 56.11	+ 5 42.5	2.170	3.131	5.8	21.6
4 1	10 51.21	+15 37.4	2.619	3.492	9.2	21.9	4 1	10 49.23	+ 6 33.0	2.221	3.125	9.3	21.8
4 11	10 46.64	+15 42.4	2.716	3.500	11.6	22.1	4 11	10 44.08	+ 7 12.8	2.297	3.119	12.3	22.0
<b>132033</b>	2002 <i>CJ</i> <sub>124</sub>		3 6.5 312°01	0°8/ 7.1 18			<b>466926</b>	2016 <i>AE</i>		3 6.5 74°59	0°1/ 6.6 18		
2 1	11 31.78	+ 1 43.6	1.339	2.177	17.5	19.8	2 1	11 34.33	+ 1 43.9	1.451	2.279	16.9	21.0
2 11	11 28.20	+ 1 54.1	1.251	2.160	13.4	19.5	2 11	11 29.42	+ 2 24.8	1.395	2.300	12.6	20.8
2 21	11 21.71	+ 2 23.4	1.184	2.144	8.5	19.2	2 21	11 22.01	+ 3 23.1	1.362	2.321	7.7	20.6
3 2	11 13.01	+ 3 7.8	1.140	2.128	3.1	18.8	3 2	11 12.99	+ 4 32.5	1.354	2.342	2.5	20.3
3 12	11 3.33	+ 4 0.1	1.122	2.112	3.0	18.8	3 12	11 3.61	+ 5 44.1	1.373	2.363	2.9	20.4
3 22	10 54.13	+ 4 51.7	1.129	2.097	8.8	19.1	3 22	10 55.11	+ 6 49.1	1.420	2.384	7.9	20.7
4 1	10 46.83	+ 5 34.1	1.159	2.083	14.1	19.3	4 1	10 48.55	+ 7 40.8	1.491	2.404	12.3	21.0
4 11	10 42.41	+ 6 1.2	1.209	2.069	18.7	19.6	4 11	10 44.56	+ 8 15.1	1.584	2.424	16.0	21.3
<b>133503</b>	2003 <i>SW</i> <sub>288</sub>		3 6.5 269°79	3°4/ 3.7 17			<b>182334</b>	2001 <i>PB</i> <sub>43</sub>		3 6.5 134°35	3°8/ 2.6 18		
2 1	11 35.44	+11 14.1	1.691	2.532	14.3	20.3	2 1	11 34.47	+14 11.7	2.080	2.917	12.1	21.1
2 11	11 30.49	+12 4.3	1.596	2.510	10.7	20.0	2 11	11 28.98	+15 15.0	2.018	2.929	8.9	21.0
2 21	11 22.92	+13 3.7	1.524	2.487	6.6	19.7	2 21	11 21.54	+16 21.6	1.982	2.941	5.7	20.8
3 2	11 13.36	+14 4.9	1.480	2.464	3.5	19.4	3 2	11 12.83	+17 24.3	1.974	2.952	3.8	20.7
3 12	11 2.91	+14 59.3	1.463	2.440	5.4	19.5	3 12	11 3.78	+18 16.3	1.995	2.963	5.4	20.8
3 22	10 52.83	+15 39.1	1.473	2.416	9.8	19.7	3 22	10 55.34	+18 52.7	2.045	2.973	8.5	21.0
4 1	10 44.38	+15 59.6	1.508	2.392	14.1	19.9	4 1	10 48.35	+19 11.0	2.120	2.982	11.5	21.2
4 11	10 38.45	+15 58.9	1.563	2.367	17.9	20.1	4 11	10 43.37	+19 11.1	2.218	2.991	14.2	21.4
<b>144970</b>	2005 <i>EE</i> <sub>101</sub>		3 6.5 267°47	2°5/ 4.0 17			<b>138725</b>	2000 <i>SF</i> <sub>175</sub>		3 6.5 138°53	4°0/ 11.6 17		
2 1	11 32.53	+ 8 23.2	1.812	2.649	13.6	20.4	2 1	11 29.37	-11 2.9	2.779	3.520	11.9	20.4
2 11	11 28.14	+ 9 28.2	1.714	2.627	10.2	20.1	2 11	11 24.85	-11 5.5	2.691	3.528	9.7	20.2
2 21	11 21.39	+10 45.8	1.641	2.604	6.2	19.8	2 21	11 18.91	-10 52.0	2.626	3.535	7.3	20.1
3 2	11 12.87	+12 9.3	1.595	2.581	2.7	19.6	3 2	11 12.00	-10 23.2	2.587	3.542	5.0	19.9
3 12	11 3.54	+13 29.8	1.577	2.557	4.6	19.6	3 12	11 4.77	- 9 41.4	2.577	3.548	4.0	19.9
3 22	10 54.53	+14 38.7	1.587	2.533	9.0	19.8	3 22	10 57.87	- 8 50.6	2.597	3.555	5.2	20.0
4 1	10 46.94	+15 29.7	1.623	2.509	13.2	20.0	4 1	10 51.92	- 7 55.5	2.645	3.561	7.5	20.1
4 11	10 41.62	+15 59.7	1.680	2.484	16.8	20.2	4 11	10 47.40	- 7 1.1	2.719	3.567	9.8	20.3
<b>303830</b>	2005 <i>SY</i> <sub>123</sub>		3 6.5 128°05	4°4/ 1.5 17			<b>457558</b>	2008 <i>YV</i> <sub>90</sub>		3 6.5 28°60	4°4/ 9.5 18		
2 1	11 33.49	+20 3.9	2.547	3.382	10.2	20.3	2 1	11 32.54	- 4 56.5	1.227	2.047	19.8	21.3
2 11	11 27.98	+20 42.2	2.479	3.385	7.8	20.2	2 11	11 28.68	- 5 16.5	1.162	2.054	15.7	21.0
2 21	11 20.80	+21 18.5	2.438	3.388	5.5	20.0	2 21	11 21.88	- 5 11.3	1.117	2.062	10.9	20.8
3 2	11 12.56	+21 47.4	2.425	3.391	4.4	20.0	3 2	11 13.03	- 4 42.3	1.093	2.071	6.2	20.6
3 12	11 4.04	+22 4.2	2.442	3.394	5.7	20.0	3 12	11 3.52	- 3 54.9	1.094	2.080	4.6	20.5
3 22	10 56.02	+22 6.3	2.487	3.397	8.0	20.2	3 22	10 54.85	- 2 58.0	1.120	2.091	8.4	20.7
4 1	10 49.21	+21 52.7	2.558	3.400	10.5	20.4	4 1	10 48.33	- 2 1.4	1.169	2.102	13.1	21.0
4 11	10 44.12	+21 24.2	2.651	3.402	12.7	20.5	4 11	10 44.77	- 1 13.8	1.238	2.113	17.4	21.3
<b>406439</b>	2007 <i>TM</i> <sub>307</sub>		3 6.5 200°18	1°0/ 5.5 16			<b>362685</b>	2011 <i>US</i> <sub>101</sub>		3 6.5 117°98	1°3/ 7.7 18</		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>255921</b>	2006 SV <sub>365</sub>		3 6.5 100°63	1°3/ 5.3 18			<b>248184</b>	2005 AQ <sub>74</sub>		3 6.5 25°67	6°3/11.6 17		
2 1	11 33.88	+ 6 25.2	1.743	2.574	14.3	21.2	2 1	11 34.71	-11 24.5	1.979	2.730	15.8	19.9
2 11	11 28.85	+ 7 5.3	1.676	2.585	10.6	21.0	2 11	11 29.48	-12 18.5	1.893	2.732	13.1	19.7
2 21	11 21.60	+ 7 56.3	1.634	2.596	6.4	20.7	2 21	11 22.06	-12 53.4	1.828	2.734	10.2	19.5
3 2	11 12.88	+ 8 52.2	1.618	2.606	2.1	20.5	3 2	11 13.09	-13 7.4	1.788	2.737	7.5	19.4
3 12	11 3.75	+ 9 45.6	1.630	2.616	3.4	20.6	3 12	11 3.52	-13 1.5	1.775	2.739	6.3	19.3
3 22	10 55.29	+10 30.0	1.671	2.627	7.7	20.9	3 22	10 54.38	-12 39.0	1.790	2.742	7.6	19.4
4 1	10 48.46	+11 0.9	1.737	2.637	11.7	21.1	4 1	10 46.65	-12 5.5	1.831	2.745	10.3	19.6
4 11	10 43.90	+11 15.8	1.825	2.646	15.0	21.4	4 11	10 41.07	-11 28.1	1.895	2.748	13.2	19.8
<b>1942</b>	Jablunka		3 6.5 161°19	0°0/ 6.3 18			<b>134372</b>	1995 SB <sub>4</sub>		3 6.5 120°03	6°9/17.7 18		
2 1	11 44.94	+ 6 13.8	1.906	2.712	14.3	17.4	2 1	11 32.47	-26 2.9	3.362	3.974	12.1	21.3
2 11	11 36.97	+ 5 58.2	1.825	2.718	10.8	17.2	2 11	11 26.99	-26 34.4	3.280	3.996	10.8	21.2
2 21	11 26.54	+ 5 49.8	1.769	2.724	6.6	16.9	2 21	11 20.15	-26 47.0	3.219	4.018	9.3	21.1
3 2	11 14.44	+ 5 45.5	1.742	2.730	2.1	16.6	3 2	11 12.41	-26 39.5	3.181	4.039	7.9	21.0
3 12	11 1.83	+ 5 41.6	1.746	2.734	2.6	16.7	3 12	11 4.39	-26 12.4	3.170	4.060	7.1	21.0
3 22	10 49.92	+ 5 34.6	1.780	2.738	7.1	17.0	3 22	10 56.72	-25 28.1	3.186	4.080	7.0	21.0
4 1	10 39.80	+ 5 21.8	1.843	2.741	11.2	17.2	4 1	10 49.96	-24 30.8	3.229	4.099	7.7	21.1
4 11	10 32.17	+ 5 1.5	1.929	2.743	14.6	17.4	4 11	10 44.58	-23 25.7	3.298	4.118	9.0	21.2
<b>308682</b>	2006 DG <sub>86</sub>		3 6.5 274°29	0°7/ 5.9 16			<b>61607</b>	2000 QD <sub>93</sub>		3 6.5 144°17	1°4/ 8.2 18		
2 1	11 31.99	+ 3 21.6	1.567	2.399	15.6	21.4	2 1	11 30.59	- 3 4.0	2.310	3.100	12.6	19.9
2 11	11 28.02	+ 4 10.3	1.473	2.382	11.8	21.1	2 11	11 25.98	- 2 15.9	2.230	3.110	9.7	19.7
2 21	11 21.46	+ 5 17.5	1.402	2.364	7.3	20.8	2 21	11 19.69	- 1 11.8	2.174	3.120	6.3	19.5
3 2	11 12.94	+ 6 37.3	1.357	2.346	2.2	20.5	3 2	11 12.29	+ 0 4.8	2.146	3.129	2.8	19.3
3 12	11 3.56	+ 8 1.0	1.339	2.327	3.4	20.5	3 12	11 4.54	+ 1 28.1	2.148	3.137	2.0	19.3
3 22	10 54.56	+ 9 18.8	1.348	2.309	8.6	20.8	3 22	10 57.22	+ 2 51.4	2.181	3.145	5.5	19.5
4 1	10 47.20	+10 22.4	1.382	2.290	13.5	21.0	4 1	10 51.06	+ 4 8.6	2.242	3.153	8.9	19.7
4 11	10 42.37	+11 6.2	1.437	2.272	17.7	21.2	4 11	10 46.60	+ 5 14.6	2.328	3.160	11.8	20.0
<b>244743</b>	2003 SP <sub>39</sub>		3 6.5 205°42	1°8/ 8.0 18			<b>304363</b>	2006 SW <sub>336</sub>		3 6.5 245°77	2°4/ 3.6 17		
2 1	11 34.62	- 1 28.2	1.903	2.703	14.6	21.6	2 1	11 30.37	+11 14.0	2.542	3.372	10.4	21.2
2 11	11 29.44	- 1 15.7	1.813	2.699	11.3	21.3	2 11	11 25.81	+12 2.0	2.451	3.360	7.7	21.0
2 21	11 22.00	- 0 47.0	1.746	2.695	7.4	21.1	2 21	11 19.61	+12 55.4	2.387	3.348	4.7	20.8
3 2	11 13.07	- 0 4.7	1.706	2.690	3.3	20.8	3 2	11 12.28	+13 49.3	2.351	3.335	2.4	20.6
3 12	11 3.48	+ 0 46.2	1.695	2.684	2.5	20.8	3 12	11 4.52	+14 38.3	2.346	3.322	3.8	20.7
3 22	10 54.35	+ 1 39.4	1.712	2.678	6.6	21.0	3 22	10 57.07	+15 17.9	2.370	3.309	6.8	20.9
4 1	10 46.65	+ 2 28.6	1.757	2.671	10.7	21.2	4 1	10 50.66	+15 44.7	2.421	3.295	9.8	21.0
4 11	10 41.12	+ 3 8.4	1.824	2.664	14.3	21.4	4 11	10 45.83	+15 57.1	2.495	3.281	12.5	21.2
<b>376444</b>	2012 HC <sub>45</sub>		3 6.5 334°16	4°0/ 2.9 18			<b>94103</b>	2000 YU <sub>77</sub>		3 6.5 94°78	3°5/ 3.1 18		
2 1	11 33.61	+13 42.3	1.751	2.597	13.6	20.8	2 1	11 32.04	+12 30.3	1.909	2.752	12.8	19.7
2 11	11 28.78	+14 34.6	1.680	2.596	10.1	20.5	2 11	11 27.41	+13 29.1	1.841	2.755	9.4	19.4
2 21	11 21.64	+15 31.6	1.634	2.595	6.4	20.3	2 21	11 20.71	+14 33.5	1.797	2.759	5.9	19.2
3 2	11 12.92	+16 25.7	1.614	2.594	4.0	20.2	3 2	11 12.64	+15 36.2	1.781	2.763	3.5	19.1
3 12	11 3.70	+17 9.2	1.622	2.594	5.8	20.3	3 12	11 4.14	+16 29.8	1.793	2.766	5.2	19.2
3 22	10 55.11	+17 36.3	1.657	2.593	9.4	20.5	3 22	10 56.21	+17 8.7	1.833	2.770	8.6	19.4
4 1	10 48.15	+17 44.0	1.716	2.593	13.0	20.7	4 1	10 49.75	+17 29.5	1.898	2.774	12.0	19.6
4 11	10 43.52	+17 32.2	1.796	2.592	16.2	20.9	4 11	10 45.39	+17 31.6	1.984	2.777	15.0	19.8
<b>120539</b>	1994 SQ <sub>5</sub>		3 6.5 5°60	1°4/ 5.2 18			<b>239886</b>	2000 QW <sub>160</sub>		3 6.5 209°35	2°9/ 9.1 18		
2 1	11 32.29	+ 7 28.8	1.856	2.690	13.5	19.9	2 1	11 33.77	- 4 56.9	1.828	2.618	15.5	21.1
2 11	11 27.65	+ 7 58.0	1.780	2.690	10.0	19.6	2 11	11 28.93	- 4 42.1	1.736	2.613	12.2	20.9
2 21	11 20.89	+ 8 36.4	1.728	2.690	6.0	19.4	2 21	11 21.80	- 4 7.1	1.667	2.608	8.4	20.7
3 2	11 12.68	+ 9 18.7	1.702	2.691	2.0	19.1	3 2	11 13.03	- 3 13.7	1.624	2.602	4.4	20.4
3 12	11 4.00	+ 9 58.6	1.705	2.691	3.4	19.2	3 12	11 3.60	- 2 7.1	1.608	2.595	3.2	20.3
3 22	10 55.86	+10 30.6	1.736	2.692	7.5	19.5	3 22	10 54.60	- 0 54.5	1.621	2.588	6.7	20.5
4 1	10 49.20	+10 50.5	1.793	2.693	11.4	19.7	4 1	10 47.08	+ 0 16.1	1.661	2.581	10.9	20.7
4 11	10 44.67	+10 55.9	1.872	2.694	14.7	19.9	4 11	10 41.79	+ 1 17.8	1.725	2.572	14.6	21.0
<b>194189</b>	2001 TQ <sub>70</sub>		3 6.5 141°66	4°4/ 2.9 18			<b>431482</b>	2007 TK <sub>29</sub>		3 6.5 97°12	3°1/10.2 17		
2 1	11 37.27	+13 45.1	1.619	2.462	14.6	20.4	2 1	11 28.97	- 7 36.2	2.328	3.100	13.1	21.6
2 11	11 31.60	+14 47.0	1.556	2.470	10.9	20.2	2 11	11 24.78	- 7 14.6	2.249	3.111	10.4	21.4
2 21	11 23.38	+15 53.9	1.517	2.478	6.9	20.0	2 21	11 18.96	- 6 35.3	2.192	3.123	7.3	21.2
3 2	11 13.47	+16 56.8	1.504	2.484	4.4	19.9	3 2	11 12.07	- 5 40.3	2.163	3.134	4.3	21.0
3 12	11 3.08	+17 47.0	1.520	2.491	6.2	20.0	3 12	11 4.85	- 4 33.9	2.162	3.145	3.1	21.0
3 22	10 53.48	+18 18.3	1.563	2.497	10.1	20.2	3 22	10 58.05	- 3 21.8	2.190	3.156	5.3	21.1
4 1	10 45.76	+18 27.8	1.629	2.502	13.8	20.4	4 1	10 52.38	- 2 10.3	2.247	3.167	8.4	21.3
4 11	10 40.64	+18 16.3	1.716	2.507	17.0	20.7	4 11	10 48.36	- 1 5.0	2.329	3.178	11.2	21.5
<b>111941</b>	2002 GF <sub>48</sub>		3 6.5 162°20	1°6/ 8.1 18			<b>27193</b>	1999 CD <sub>60</sub>		3 6.5 126°29	0°2/ 6.2 18		
2 1	11 33.58	- 2 29.1	1.985	2.781	14.2	20.4	2 1	11 30.91	+ 1 20.7	1.974	2.789	13.5	18.8
2 11	11 28.48	- 1 57.2	1.904	2.787	10.9	20.2	2 11	11 26.46	+ 2 31.8	1.902	2.801	10.1	18.6
2 21	11 21.35	- 1 7.9	1.845	2.793	7.2	20.0	2 21	11 20.09	+ 3 58.6	1.854	2.812	6.1	18.4
3 2	11 12.83	- 0 4.6	1.814	2.798	3.2	19.7	3 2	11 12.44	+ 5 35.2	1.834	2.823	1.9	18.1
3 12	11 3.84	+ 1 6.7	1.813	2.802	2.4	19.7	3 12	11 4.40	+ 7 13.4	1.845	2.833	2.5	18.2
3 22	10 55.35	+ 2 18.9	1.840	2.805	6.2	19.9	3 22	10 56.89	+ 8 45.0	1.884	2.843	6.7	18.5
4 1	10 48.25	+ 3 25.4	1.895	2.808	10.1	20.2	4 1	10 50.74	+10 3.3	1.951	2.852	10.5	18.7
4 11	10 43.20	+ 4 20.7	1.974	2.810	13.5	20.4	4 11	10 46.53	+11 4.3	2.041	2.861	13.7	18.9
<b>381663</b>	2009 BC <sub>12</sub>		3 6.5 74°54	6°8/13.8 18			<b>277775</b>	2006 DY <sub>189</sub>		3 6.5 71°21	0°9/ 7.4 17		
2 1	11 36.41	-16 54.4	2.309	3.012	15.0	20.6							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>128415</b>	2004 LZ <sub>21</sub>		3 6.5 231°05	1.2°/ 5.1 17			<b>384599</b>	2010 OA <sub>64</sub>		3 6.5 230°75	4.8°/29.7 17		
2 1	11 30.58	+ 4 51.2	2.150	2.973	12.3	20.2	2 1	11 30.83	+18 38.8	2.310	3.153	10.8	21.3
2 11	11 26.26	+ 6 0.9	2.057	2.962	9.2	19.9	2 11	11 26.29	+19 47.6	2.239	3.150	8.2	21.1
2 21	11 20.04	+ 7 23.8	1.989	2.950	5.5	19.7	2 21	11 19.96	+20 56.6	2.195	3.147	5.8	21.0
3 2	11 12.46	+ 8 54.4	1.950	2.938	1.8	19.4	3 2	11 12.43	+21 59.3	2.178	3.144	4.9	20.9
3 12	11 4.34	+10 25.0	1.941	2.926	3.2	19.5	3 12	11 4.50	+22 49.0	2.191	3.141	6.3	21.0
3 22	10 56.55	+11 48.3	1.962	2.913	7.1	19.7	3 22	10 57.02	+23 21.5	2.231	3.138	8.9	21.1
4 1	10 49.95	+12 58.0	2.010	2.900	10.8	19.9	4 1	10 50.76	+23 34.6	2.295	3.135	11.6	21.3
4 11	10 45.20	+13 50.4	2.081	2.886	14.0	20.1	4 11	10 46.30	+23 28.6	2.381	3.132	14.0	21.5
<b>464416</b>	2016 BL <sub>24</sub>		3 6.5 7°10	2.8°/ 8.4 18			<b>121114</b>	1999 GD <sub>28</sub>		3 6.5 7°28	3.8°/ 3.8 18		
2 1	11 35.13	- 1 37.7	1.487	2.301	17.2	21.2	2 1	11 31.54	+10 20.4	1.160	2.025	17.7	18.3
2 11	11 30.31	- 1 57.1	1.409	2.301	13.4	20.9	2 11	11 28.14	+11 15.8	1.099	2.026	13.1	18.0
2 21	11 22.80	- 1 58.8	1.353	2.302	9.0	20.7	2 21	11 21.67	+12 22.8	1.059	2.027	8.0	17.7
3 2	11 13.37	- 1 44.3	1.321	2.302	4.5	20.4	3 2	11 13.05	+13 31.4	1.043	2.029	4.0	17.5
3 12	11 3.25	- 1 18.0	1.315	2.303	3.4	20.3	3 12	11 3.76	+14 29.7	1.050	2.031	6.2	17.6
3 22	10 53.77	- 0 46.1	1.336	2.304	7.7	20.6	3 22	10 55.36	+15 8.7	1.082	2.035	11.2	17.9
4 1	10 46.15	- 0 15.5	1.382	2.306	12.2	20.9	4 1	10 49.22	+15 23.3	1.135	2.040	16.0	18.2
4 11	10 41.21	+ 0 7.8	1.449	2.307	16.3	21.1	4 11	10 46.14	+15 13.0	1.206	2.045	20.1	18.5
<b>37629</b>	1993 TX <sub>19</sub>		3 6.5 91°67	0.4°/ 6.9 18			<b>18428</b>	1994 AC <sub>1</sub>		3 6.5 101°67	3.8°/ 9.6 18		
2 1	11 34.40	+ 1 6.3	1.537	2.360	16.4	19.8	2 1	11 37.43	- 5 44.1	1.696	2.481	16.7	19.3
2 11	11 29.46	+ 1 44.5	1.475	2.377	12.3	19.6	2 11	11 31.54	- 5 55.8	1.629	2.501	13.2	19.1
2 21	11 22.07	+ 2 40.2	1.436	2.393	7.6	19.3	2 21	11 23.29	- 5 47.4	1.585	2.520	9.2	18.9
3 2	11 13.09	+ 3 47.8	1.422	2.409	2.6	19.1	3 2	11 13.48	- 5 20.3	1.565	2.539	5.3	18.7
3 12	11 3.68	+ 4 59.0	1.435	2.425	2.7	19.1	3 12	11 3.26	- 4 39.1	1.574	2.558	4.0	18.7
3 22	10 55.07	+ 6 5.3	1.477	2.441	7.6	19.4	3 22	10 53.78	- 3 50.2	1.610	2.575	7.0	18.9
4 1	10 48.28	+ 6 59.7	1.543	2.456	12.0	19.7	4 1	10 46.06	- 3 0.8	1.673	2.593	10.8	19.2
4 11	10 43.99	+ 7 37.8	1.632	2.471	15.7	20.0	4 11	10 40.78	- 2 17.4	1.759	2.610	14.2	19.4
<b>271896</b>	2004 VK <sub>43</sub>		3 6.5 152°36	0.9°/ 7.4 18			<b>508267</b>	2015 HS <sub>166</sub>		3 6.5 275°31	4.1°/11.7 17		
2 1	11 30.76	- 0 8.5	2.171	2.976	12.8	21.4	2 1	11 27.59	-11 35.1	2.510	3.257	12.9	21.9
2 11	11 26.24	+ 0 24.3	2.089	2.980	9.8	21.2	2 11	11 23.87	-11 18.9	2.399	3.240	10.6	21.7
2 21	11 19.93	+ 1 11.3	2.032	2.984	6.2	21.0	2 21	11 18.52	-10 42.9	2.309	3.222	8.0	21.5
3 2	11 12.41	+ 2 8.8	2.002	2.988	2.4	20.7	3 2	11 12.00	- 9 47.8	2.246	3.205	5.4	21.3
3 12	11 4.48	+ 3 11.4	2.001	2.991	2.0	20.7	3 12	11 4.99	- 8 36.6	2.212	3.187	4.1	21.2
3 22	10 56.98	+ 4 13.0	2.030	2.994	5.8	21.0	3 22	10 58.20	- 7 14.3	2.206	3.169	5.6	21.3
4 1	10 50.71	+ 5 8.1	2.087	2.997	9.4	21.2	4 1	10 52.38	- 5 47.3	2.229	3.151	8.4	21.4
4 11	10 46.23	+ 5 52.4	2.167	3.000	12.5	21.4	4 11	10 48.10	- 4 22.6	2.278	3.132	11.3	21.6
<b>471512</b>	2012 CG		3 6.5 43°83	0.4°/ 2.9 16			<b>377323</b>	2004 LN <sub>2</sub>		3 6.5 215°56	6.6°/14.1 17		
2 1	11 12.99	+14 16.0	23.137	23.966	1.3	22.6	2 1	11 33.66	-19 2.5	2.760	3.440	13.3	21.6
2 11	11 11.92	+14 25.7	23.076	23.984	0.9	22.6	2 11	11 28.29	-19 30.8	2.649	3.430	11.5	21.4
2 21	11 10.72	+14 35.5	23.043	24.002	0.6	22.5	2 21	11 21.20	-19 40.0	2.559	3.419	9.5	21.2
3 2	11 9.43	+14 45.1	23.040	24.020	0.4	22.5	3 2	11 12.85	-19 28.3	2.495	3.407	7.6	21.1
3 12	11 8.13	+14 54.0	23.068	24.038	0.5	22.5	3 12	11 3.95	-18 56.2	2.458	3.394	6.6	21.0
3 22	11 6.86	+15 2.0	23.126	24.057	0.9	22.6	3 22	10 55.26	-18 6.5	2.449	3.381	7.0	21.0
4 1	11 5.66	+15 8.8	23.212	24.075	1.2	22.6	4 1	10 47.54	-17 4.2	2.469	3.367	8.7	21.1
4 11	11 4.61	+15 14.1	23.324	24.093	1.6	22.7	4 11	10 41.43	-15 55.5	2.514	3.352	10.9	21.2
<b>242955</b>	2006 TS <sub>8</sub>		3 6.5 31°56	2.2°/ 4.1 18			<b>52648</b>	1997 YN <sub>5</sub>		3 6.5 118°69	3.5°/ 1.9 18		
2 1	11 28.94	+ 9 8.8	2.078	2.916	12.1	20.4	2 1	11 30.33	+14 32.6	2.487	3.324	10.4	19.4
2 11	11 24.96	+10 4.7	2.007	2.920	8.9	20.2	2 11	11 25.69	+15 44.3	2.426	3.337	7.6	19.3
2 21	11 19.17	+11 8.4	1.960	2.924	5.3	20.0	2 21	11 19.48	+16 58.5	2.392	3.350	4.9	19.1
3 2	11 12.16	+12 13.9	1.942	2.928	2.4	19.8	3 2	11 12.26	+18 9.2	2.387	3.362	3.5	19.1
3 12	11 4.78	+13 14.6	1.953	2.933	3.9	20.0	3 12	11 4.76	+19 10.3	2.411	3.374	4.9	19.2
3 22	10 57.89	+14 4.6	1.991	2.938	7.4	20.2	3 22	10 57.72	+19 57.5	2.465	3.386	7.5	19.4
4 1	10 52.25	+14 39.9	2.056	2.943	10.7	20.4	4 1	10 51.80	+20 28.2	2.545	3.398	10.2	19.5
4 11	10 48.45	+14 58.6	2.143	2.948	13.6	20.6	4 11	10 47.50	+20 41.8	2.647	3.409	12.4	19.7
<b>37966</b>	1998 HO <sub>90</sub>		3 6.5 182°04	4.5°/12.8 18			<b>318904</b>	2005 UF <sub>9</sub>		3 6.5 139°17	2.1°/ 4.3 18		
2 1	11 27.41	-14 22.1	2.675	3.402	12.7	18.8	2 1	11 33.45	+ 9 9.6	2.203	3.030	11.9	21.8
2 11	11 23.54	-13 59.2	2.578	3.402	10.5	18.7	2 11	11 28.16	+10 1.9	2.135	3.042	8.7	21.7
2 21	11 18.19	-13 16.1	2.503	3.402	8.1	18.5	2 21	11 21.05	+11 1.0	2.092	3.053	5.2	21.5
3 2	11 11.85	-12 13.8	2.454	3.402	5.7	18.4	3 2	11 12.77	+12 1.5	2.077	3.063	2.3	21.3
3 12	11 5.15	-10 55.4	2.434	3.402	4.5	18.3	3 12	11 4.15	+12 56.9	2.093	3.073	3.7	21.4
3 22	10 58.76	- 9 26.1	2.443	3.401	5.4	18.3	3 22	10 56.06	+13 42.1	2.138	3.083	7.1	21.6
4 1	10 53.33	- 7 52.2	2.481	3.401	7.7	18.5	4 1	10 49.27	+14 13.5	2.210	3.092	10.3	21.8
4 11	10 49.35	- 6 20.2	2.546	3.400	10.2	18.6	4 11	10 44.34	+14 29.7	2.305	3.100	13.1	22.0
<b>88832</b>	2001 SY <sub>165</sub>		3 6.5 263°05	0.2°/ 6.7 17			<b>28967</b>	Gerhardter		3 6.5 191°95	4.2°/ 2.9 18		
2 1	11 32.15	+ 2 28.3	1.774	2.597	14.5	20.2	2 1	11 37.39	+13 23.7	1.755	2.594	13.9	19.2
2 11	11 27.73	+ 2 56.1	1.690	2.592	11.0	20.0	2 11	11 31.68	+14 29.5	1.681	2.593	10.4	19.0
2 21	11 21.07	+ 3 38.6	1.628	2.587	6.8	19.7	2 21	11 23.50	+15 41.2	1.631	2.591	6.6	18.7
3 2	11 12.82	+ 4 31.5	1.593	2.581	2.2	19.4	3 2	11 13.60	+16 50.4	1.608	2.588	4.2	18.6
3 12	11 3.98	+ 5 28.2	1.586	2.576	2.6	19.4	3 12	11 3.11	+17 48.3	1.615	2.585	6.0	18.7
3 22	10 55.61	+ 6 21.8	1.607	2.570	7.2	19.7	3 22	10 53.24	+18 28.4	1.648	2.581	9.8	18.9
4 1	10 48.74	+ 7 6.1	1.654	2.565	11.4	19.9	4 1	10 45.08	+18 47.1	1.707	2.576	13.5	19.1
4 11	10 44.08	+ 7 36.6	1.723	2.559	15.1	20.2	4 11	10 39.39	+18 44.4	1.786	2.570	16.8	19.3
<b>330898</b>	2009 SA <sub>34</sub>		3 6.5 152°85	0.0°/ 6.3 17			<b>255674</b>	2006 QQ <sub>44</sub>		3 6.5 258°16	1.1°/ 5.5 17		
2 1	11 33.92	+ 3 51.4	2.030	2.846	13.2								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>427138</b>	2014 <i>UG</i> <sub>135</sub>		3 6.5 202°37	0.4/ 6.1	17		<b>243971</b>	2001 <i>QL</i> <sub>330</sub>		3 6.5 141°71	2°8/ 9.7	17	
2 1	11 34.97	+ 4 24.9	2.191	3.003	12.5	22.2	2 1	11 31.34	- 5 30.8	2.582	3.353	12.0	20.9
2 11	11 29.45	+ 4 58.4	2.100	2.998	9.4	22.0	2 11	11 26.44	- 5 32.3	2.496	3.360	9.5	20.7
2 21	11 21.97	+ 5 42.9	2.035	2.992	5.7	21.8	2 21	11 19.97	- 5 20.0	2.435	3.367	6.6	20.6
3 2	11 13.11	+ 6 34.0	1.998	2.986	1.7	21.5	3 2	11 12.46	- 4 55.2	2.400	3.373	3.8	20.4
3 12	11 3.73	+ 7 26.1	1.991	2.979	2.5	21.5	3 12	11 4.61	- 4 20.9	2.396	3.379	2.9	20.3
3 22	10 54.75	+ 8 13.7	2.014	2.971	6.5	21.8	3 22	10 57.12	- 3 41.0	2.421	3.385	5.1	20.5
4 1	10 47.03	+ 8 51.9	2.064	2.962	10.2	22.0	4 1	10 50.67	- 3 0.2	2.475	3.391	7.9	20.7
4 11	10 41.23	+ 9 17.7	2.139	2.952	13.4	22.2	4 11	10 45.77	- 2 22.7	2.554	3.396	10.6	20.9
<b>404195</b>	2013 <i>CH</i> <sub>125</sub>		3 6.5 324°12	4°0/ 3.9	18		<b>469246</b>	2016 <i>JQ</i> <sub>19</sub>		3 6.5 210°36	3°8/ 11.3	18	
2 1	11 34.87	+12 8.0	1.279	2.137	16.8	20.5	2 1	11 29.73	-10 52.8	2.655	3.399	12.3	21.7
2 11	11 30.60	+12 46.4	1.205	2.127	12.6	20.2	2 11	11 25.32	-10 36.2	2.552	3.393	10.1	21.5
2 21	11 23.23	+13 33.0	1.152	2.117	7.9	19.9	2 21	11 19.34	-10 1.6	2.472	3.386	7.5	21.4
3 2	11 13.60	+14 18.8	1.124	2.109	4.1	19.6	3 2	11 12.28	- 9 9.8	2.418	3.378	5.0	21.2
3 12	11 3.13	+14 54.2	1.121	2.100	6.2	19.7	3 12	11 4.80	- 8 4.0	2.394	3.370	3.8	21.1
3 22	10 53.39	+15 11.4	1.142	2.092	11.1	20.0	3 22	10 57.58	- 6 49.0	2.400	3.362	5.3	21.2
4 1	10 45.82	+15 6.6	1.186	2.085	15.9	20.2	4 1	10 51.33	- 5 30.7	2.435	3.353	7.9	21.3
4 11	10 41.35	+14 39.4	1.248	2.079	20.0	20.5	4 11	10 46.58	- 4 15.0	2.496	3.343	10.6	21.5
<b>111266</b>	2001 <i>XK</i> <sub>29</sub>		3 6.5 52°92	3°5/ 9.7	18		<b>201175</b>	2002 <i>OW</i> <sub>16</sub>		3 6.5 190°54	0°7/ 7.4	18	
2 1	11 31.76	- 6 8.1	1.566	2.366	17.2	19.3	2 1	11 29.40	- 0 23.0	2.365	3.167	12.0	20.6
2 11	11 27.43	- 5 56.6	1.508	2.388	13.5	19.1	2 11	11 25.17	+ 0 19.4	2.277	3.166	9.1	20.4
2 21	11 20.81	- 5 22.1	1.471	2.411	9.3	18.9	2 21	11 19.28	+ 1 15.8	2.213	3.165	5.8	20.2
3 2	11 12.72	- 4 27.7	1.458	2.434	5.2	18.7	3 2	11 12.26	+ 2 22.5	2.178	3.164	2.2	19.9
3 12	11 4.28	- 3 19.8	1.471	2.458	3.7	18.6	3 12	11 4.84	+ 3 34.2	2.172	3.162	1.9	19.9
3 22	10 56.61	- 2 6.7	1.512	2.481	6.9	18.9	3 22	10 57.78	+ 4 45.0	2.197	3.160	5.5	20.2
4 1	10 50.67	- 0 57.0	1.579	2.505	10.8	19.2	4 1	10 51.79	+ 5 49.1	2.249	3.158	8.9	20.4
4 11	10 47.07	+ 0 2.5	1.668	2.529	14.3	19.4	4 11	10 47.44	+ 6 42.3	2.326	3.155	11.9	20.6
<b>90664</b>	4283 <i>T</i> - <sub>3</sub>		3 6.5 218°33	6°9/ 26.4	18		<b>125374</b>	2001 <i>VY</i> <sub>74</sub>		3 6.5 155°59	3°0/ 3.6	18	
2 1	11 36.36	+31 8.5	2.854	3.673	9.7	20.0	2 1	11 36.77	+10 47.7	1.921	2.752	13.2	20.4
2 11	11 30.15	+32 3.3	2.788	3.665	8.1	19.9	2 11	11 30.91	+11 53.3	1.853	2.762	9.7	20.2
2 21	11 22.21	+32 49.8	2.749	3.658	7.0	19.8	2 21	11 22.88	+13 5.9	1.810	2.771	6.0	20.0
3 2	11 13.14	+33 22.1	2.737	3.650	7.0	19.8	3 2	11 13.40	+14 18.3	1.795	2.779	3.1	19.8
3 12	11 3.75	+33 35.5	2.753	3.642	8.0	19.9	3 12	11 3.49	+15 22.4	1.811	2.786	4.8	19.9
3 22	10 54.85	+33 28.2	2.795	3.633	9.7	20.0	3 22	10 54.21	+16 12.1	1.854	2.792	8.5	20.2
4 1	10 47.19	+33 0.4	2.862	3.624	11.5	20.1	4 1	10 46.50	+16 43.6	1.924	2.798	12.0	20.4
4 11	10 41.32	+32 14.4	2.949	3.615	13.2	20.2	4 11	10 41.01	+16 56.0	2.016	2.802	15.0	20.6
<b>430474</b>	2001 <i>SW</i> <sub>17</sub>		3 6.5 163°95	1°2/ 5.2	15		<b>39877</b>	1998 <i>EQ</i> <sub>6</sub>		3 6.5 254°86	0°5/ 6.9	18	
2 1	11 34.19	+ 7 1.6	2.408	3.224	11.4	23.0	2 1	11 34.46	+ 1 49.1	1.830	2.644	14.5	19.8
2 11	11 28.61	+ 7 40.5	2.329	3.231	8.4	22.8	2 11	11 29.59	+ 2 11.3	1.730	2.627	11.1	19.6
2 21	11 21.31	+ 8 27.1	2.277	3.237	5.0	22.6	2 21	11 22.34	+ 2 48.6	1.653	2.609	7.0	19.3
3 2	11 12.87	+ 9 16.9	2.254	3.242	1.7	22.3	3 2	11 13.32	+ 3 37.5	1.603	2.590	2.4	19.0
3 12	11 4.08	+10 4.6	2.262	3.246	2.8	22.4	3 12	11 3.50	+ 4 32.1	1.581	2.571	2.5	18.9
3 22	10 55.73	+10 45.5	2.299	3.250	6.2	22.7	3 22	10 54.02	+ 5 25.4	1.588	2.551	7.3	19.2
4 1	10 48.57	+11 16.1	2.365	3.253	9.5	22.9	4 1	10 45.96	+ 6 11.1	1.621	2.531	11.7	19.4
4 11	10 43.15	+11 34.2	2.455	3.256	12.2	23.0	4 11	10 40.17	+ 6 44.1	1.677	2.511	15.6	19.6
<b>204395</b>	2004 <i>TE</i> <sub>275</sub>		3 6.5 256°68	0°7/ 5.9	18		<b>466776</b>	2015 <i>AV</i> <sub>252</sub>		3 6.5 206°74	4°0/ 2.2	17	
2 1	11 34.64	+ 4 49.1	1.582	2.413	15.5	20.6	2 1	11 32.34	+14 48.6	2.154	2.994	11.6	21.6
2 11	11 29.94	+ 5 19.6	1.495	2.403	11.7	20.3	2 11	11 27.54	+15 54.4	2.078	2.990	8.7	21.4
2 21	11 22.63	+ 6 4.4	1.431	2.392	7.2	20.0	2 21	11 20.81	+17 3.8	2.028	2.987	5.6	21.2
3 2	11 13.40	+ 6 58.3	1.392	2.381	2.2	19.7	3 2	11 12.76	+18 10.1	2.007	2.983	4.0	21.1
3 12	11 3.38	+ 7 53.6	1.382	2.370	3.3	19.7	3 12	11 4.25	+19 6.0	2.014	2.979	5.6	21.1
3 22	10 53.86	+ 8 42.5	1.398	2.358	8.4	20.0	3 22	10 56.21	+19 46.5	2.050	2.975	8.6	21.3
4 1	10 46.06	+ 9 18.7	1.439	2.347	13.1	20.2	4 1	10 49.47	+20 8.5	2.111	2.970	11.7	21.5
4 11	10 40.83	+ 9 38.1	1.501	2.335	17.1	20.4	4 11	10 44.66	+20 11.5	2.193	2.965	14.4	21.7
<b>241223</b>	2007 <i>TJ</i> <sub>95</sub>		3 6.5 78°17	3°2/ 10.6	18		<b>151817</b>	2003 <i>FK</i> <sub>93</sub>		3 6.5 12°71	1°0/ 5.6	18	
2 1	11 28.82	- 9 9.0	2.285	3.050	13.5	20.3	2 1	11 29.47	+ 4 13.8	1.603	2.441	15.0	20.0
2 11	11 24.65	- 8 30.4	2.214	3.072	10.7	20.1	2 11	11 25.88	+ 5 8.9	1.530	2.442	11.2	19.8
2 21	11 18.89	- 7 32.1	2.166	3.093	7.6	20.0	2 21	11 20.00	+ 6 19.6	1.480	2.444	6.8	19.5
3 2	11 12.10	- 6 17.0	2.145	3.115	4.5	19.8	3 2	11 12.53	+ 7 39.2	1.457	2.446	2.1	19.2
3 12	11 5.05	- 4 50.3	2.154	3.137	3.2	19.8	3 12	11 4.54	+ 8 58.9	1.461	2.448	3.4	19.3
3 22	10 58.49	- 3 18.8	2.192	3.158	5.3	19.9	3 22	10 57.13	+10 9.9	1.491	2.451	8.1	19.6
4 1	10 53.09	- 1 49.3	2.258	3.179	8.3	20.2	4 1	10 51.32	+11 5.4	1.547	2.454	12.3	19.8
4 11	10 49.35	- 0 28.1	2.351	3.200	11.1	20.4	4 11	10 47.81	+11 41.7	1.623	2.457	16.0	20.1
<b>36426</b>	Kakuda		3 6.5 275°62	0°6/ 7.0	18		<b>503583</b>	2016 <i>GD</i> <sub>53</sub>		3 6.5 348°97	1°7/ 7.9	17	
2 1	11 34.30	+ 1 43.7	1.568	2.392	16.0	18.9	2 1	11 28.81	- 1 5.1	1.426	2.256	17.0	20.8
2 11	11 29.86	+ 2 1.3	1.470	2.372	12.3	18.6	2 11	11 25.71	- 0 46.0	1.348	2.250	13.1	20.6
2 21	11 22.71	+ 2 36.1	1.394	2.351	7.8	18.3	2 21	11 20.07	- 0 5.6	1.290	2.245	8.5	20.3
3 2	11 13.47	+ 3 24.6	1.343	2.330	2.8	18.0	3 2	11 12.60	+ 0 52.2	1.256	2.241	3.6	20.0
3 12	11 3.27	+ 4 20.2	1.319	2.309	2.8	17.9	3 12	11 4.43	+ 2 0.2	1.248	2.238	2.8	19.9
3 22	10 53.41	+ 5 14.9	1.323	2.288	8.1	18.2	3 22	10 56.84	+ 3 9.3	1.265	2.235	7.8	20.2
4 1	10 45.20	+ 6 1.2	1.351	2.267	13.1	18.4	4 1	10 50.98	+ 4 10.7	1.307	2.234	12.6	20.5
4 11	10 39.60	+ 6 33.2	1.400	2.245	17.5	18.6	4 11	10 47.67	+ 4 57.6	1.369	2.233	16.7	20.7
<b>54587</b>	2000 <i>QM</i> <sub>189</sub>		3 6.5 254°73	4°0/ 1.6	18 R		<b>18530</b>	1996 <i>XS</i> <sub>1</sub>		3 6.5 173°08	1°8/ 8.4	17	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>188767</b>	2005 <i>UJ</i> <sub>398</sub>		3 6.5 190°71	1°5/ 4.9 17			<b>64245</b>	2001 <i>TR</i> <sub>159</sub>		3 6.5 111°70	5°5/29.6 18		
2 1	11 32.74	+ 7 14.0	2.175	2.999	12.1	21.1	2 1	11 31.89	+16 43.2	1.829	2.679	12.9	18.5
2 11	11 27.78	+ 8 0.0	2.093	2.998	9.0	20.9	2 11	11 27.46	+18 23.5	1.771	2.686	9.7	18.3
2 21	11 20.94	+ 8 55.0	2.036	2.997	5.4	20.7	2 21	11 20.85	+20 6.4	1.738	2.694	6.7	18.2
3 2	11 12.80	+ 9 54.0	2.007	2.995	1.9	20.4	3 2	11 12.80	+21 42.2	1.732	2.701	5.6	18.1
3 12	11 4.22	+10 50.6	2.008	2.992	3.2	20.5	3 12	11 4.31	+23 1.6	1.755	2.708	7.4	18.2
3 22	10 56.07	+11 39.2	2.039	2.990	6.9	20.7	3 22	10 56.44	+23 58.2	1.804	2.715	10.5	18.4
4 1	10 49.18	+12 15.6	2.096	2.986	10.4	20.9	4 1	10 50.13	+24 29.3	1.877	2.721	13.6	18.6
4 11	10 44.15	+12 37.3	2.177	2.982	13.4	21.1	4 11	10 46.01	+24 35.7	1.970	2.728	16.3	18.8
<b>222325</b>	2000 <i>UH</i> <sub>15</sub>		3 6.5 147°16	6°1/28.6 18			<b>237698</b>	2001 <i>UL</i> <sub>60</sub>		3 6.5 201°11	3°8/11.2 18		
2 1	11 35.24	+22 58.3	2.259	3.096	11.3	20.4	2 1	11 28.19	-10 10.2	2.403	3.160	13.1	20.6
2 11	11 29.56	+24 13.0	2.203	3.105	8.8	20.3	2 11	11 24.30	- 9 51.9	2.309	3.159	10.7	20.4
2 21	11 21.95	+25 23.8	2.173	3.113	6.7	20.2	2 21	11 18.78	- 9 14.4	2.238	3.158	7.8	20.2
3 2	11 13.09	+26 23.3	2.171	3.121	6.2	20.1	3 2	11 12.13	- 8 18.8	2.193	3.157	5.1	20.0
3 12	11 3.91	+27 5.0	2.197	3.129	7.6	20.2	3 12	11 5.08	- 7 9.1	2.177	3.156	3.8	19.9
3 22	10 55.33	+27 25.6	2.251	3.135	9.9	20.4	3 22	10 58.37	- 5 50.6	2.190	3.154	5.5	20.0
4 1	10 48.17	+27 24.3	2.329	3.142	12.3	20.6	4 1	10 52.71	- 4 29.8	2.231	3.153	8.3	20.2
4 11	10 43.01	+27 2.9	2.427	3.148	14.5	20.7	4 11	10 48.65	- 3 13.2	2.298	3.151	11.2	20.4
<b>408999</b>	2002 <i>VO</i> <sub>64</sub>		3 6.5 147°20	6°7/29.6 18			<b>455617</b>	2004 <i>TO</i> <sub>279</sub>		3 6.5 194°22	0°7/ 7.2 17		
2 1	11 39.24	+23 0.4	1.925	2.763	12.9	21.0	2 1	11 35.77	+ 0 37.7	2.075	2.876	13.5	22.5
2 11	11 32.80	+24 0.1	1.867	2.769	10.0	20.8	2 11	11 30.16	+ 1 5.7	1.984	2.873	10.3	22.2
2 21	11 24.03	+24 55.0	1.833	2.776	7.6	20.7	2 21	11 22.48	+ 1 48.1	1.918	2.870	6.5	22.0
3 2	11 13.76	+25 36.8	1.826	2.782	6.7	20.6	3 2	11 13.33	+ 2 41.2	1.880	2.866	2.4	21.7
3 12	11 3.13	+25 58.7	1.848	2.787	8.2	20.7	3 12	11 3.63	+ 3 39.4	1.871	2.861	2.2	21.7
3 22	10 53.28	+25 57.4	1.896	2.792	10.8	20.9	3 22	10 54.35	+ 4 36.7	1.892	2.855	6.4	22.0
4 1	10 45.20	+25 33.0	1.968	2.797	13.6	21.1	4 1	10 46.42	+ 5 27.1	1.942	2.848	10.3	22.2
4 11	10 39.53	+24 48.4	2.060	2.801	16.1	21.3	4 11	10 40.52	+ 6 6.3	2.015	2.840	13.7	22.4
<b>211000</b>	2001 <i>XF</i> <sub>121</sub>		3 6.5 31°54	0°5/ 6.1 18			<b>496098</b>	2009 <i>UX</i> <sub>59</sub>		3 6.5 194°17	9°2/19.9 17		
2 1	11 28.83	+ 4 2.0	1.923	2.752	13.3	20.1	2 1	11 32.75	-30 54.9	2.753	3.338	15.0	21.9
2 11	11 24.99	+ 4 40.4	1.854	2.761	9.9	19.9	2 11	11 27.74	-31 16.8	2.648	3.336	13.7	21.7
2 21	11 19.25	+ 5 30.7	1.810	2.771	6.0	19.7	2 21	11 20.92	-31 13.3	2.560	3.332	12.1	21.6
3 2	11 12.26	+ 6 28.1	1.792	2.781	1.8	19.4	3 2	11 12.83	-30 41.6	2.493	3.328	10.6	21.5
3 12	11 4.92	+ 7 25.9	1.803	2.791	2.6	19.5	3 12	11 4.23	-29 41.2	2.450	3.323	9.5	21.4
3 22	10 58.10	+ 8 18.0	1.841	2.802	6.7	19.8	3 22	10 55.96	-28 15.1	2.432	3.318	9.2	21.3
4 1	10 52.64	+ 8 59.4	1.906	2.814	10.4	20.0	4 1	10 48.82	-26 28.9	2.442	3.311	9.9	21.4
4 11	10 49.09	+ 9 26.8	1.994	2.825	13.5	20.2	4 11	10 43.42	-24 30.9	2.477	3.304	11.3	21.5
<b>432472</b>	2010 <i>DP</i> <sub>33</sub>		3 6.5 276°32	7°6/25.7 17			<b>463676</b>	2014 <i>OJ</i> <sub>91</sub>		3 6.5 178°19	1°6/ 8.1 18		
2 1	11 31.85	+27 40.2	2.274	3.114	11.1	20.9	2 1	11 34.13	- 2 26.3	1.967	2.762	14.3	22.5
2 11	11 27.27	+29 9.4	2.209	3.104	9.1	20.8	2 11	11 29.01	- 1 55.6	1.881	2.765	11.1	22.3
2 21	11 20.69	+30 32.7	2.169	3.094	7.8	20.7	2 21	11 21.79	- 1 7.2	1.819	2.766	7.3	22.0
3 2	11 12.74	+31 41.8	2.156	3.083	7.8	20.7	3 2	11 13.12	- 0 4.5	1.784	2.767	3.2	21.8
3 12	11 4.31	+32 29.9	2.170	3.073	9.2	20.7	3 12	11 3.92	+ 1 6.6	1.778	2.767	2.4	21.7
3 22	10 56.36	+32 53.2	2.209	3.062	11.4	20.9	3 22	10 55.19	+ 2 19.1	1.801	2.767	6.3	22.0
4 1	10 49.75	+32 50.9	2.271	3.052	13.6	21.0	4 1	10 47.86	+ 3 26.0	1.852	2.765	10.3	22.2
4 11	10 45.12	+32 25.2	2.351	3.041	15.6	21.1	4 11	10 42.60	+ 4 21.7	1.927	2.763	13.7	22.4
<b>258246</b>	2001 <i>TB</i> <sub>163</sub>		3 6.5 187°36	0°5/ 7.1 15			<b>421236</b>	2013 <i>SK</i> <sub>43</sub>		3 6.5 106°43	4°1/ 2.4 17		
2 1	11 33.21	+ 1 22.1	2.251	3.055	12.5	22.4	2 1	11 33.03	+14 59.5	1.972	2.815	12.4	20.8
2 11	11 28.07	+ 1 49.4	2.163	3.054	9.5	22.2	2 11	11 28.12	+15 59.0	1.907	2.821	9.2	20.6
2 21	11 21.10	+ 2 29.1	2.100	3.053	5.9	22.0	2 21	11 21.18	+17 1.5	1.868	2.827	6.0	20.4
3 2	11 12.86	+ 3 17.8	2.065	3.052	2.1	21.7	3 2	11 12.89	+17 59.6	1.856	2.833	4.1	20.3
3 12	11 4.17	+ 4 10.4	2.060	3.050	2.0	21.7	3 12	11 4.22	+18 46.3	1.872	2.839	5.7	20.4
3 22	10 55.88	+ 5 1.5	2.085	3.047	5.9	22.0	3 22	10 56.15	+19 16.7	1.916	2.844	8.9	20.6
4 1	10 48.80	+ 5 46.2	2.138	3.044	9.5	22.2	4 1	10 49.54	+19 28.2	1.985	2.850	12.1	20.8
4 11	10 43.53	+ 6 20.5	2.215	3.040	12.6	22.4	4 11	10 45.00	+19 21.0	2.075	2.855	14.8	21.0
<b>419209</b>	2009 <i>UJ</i> <sub>110</sub>		3 6.5 69°36	3°8/10.3 18			<b>432193</b>	2009 <i>DN</i> <sub>65</sub>		3 6.5 315°20	8°2/25.6 17		
2 1	11 31.91	- 7 49.5	1.844	2.624	15.7	21.3	2 1	11 31.09	+27 17.0	2.035	2.881	11.9	20.2
2 11	11 27.29	- 7 41.3	1.779	2.645	12.5	21.1	2 11	11 26.92	+28 51.6	1.970	2.870	9.8	20.0
2 21	11 20.65	- 7 11.9	1.736	2.667	8.9	20.9	2 21	11 20.59	+30 20.4	1.931	2.859	8.3	19.9
3 2	11 12.70	- 6 23.4	1.718	2.689	5.3	20.8	3 2	11 12.75	+31 34.0	1.918	2.848	8.4	19.9
3 12	11 4.42	- 5 20.9	1.728	2.711	3.9	20.7	3 12	11 4.38	+32 24.6	1.931	2.837	10.0	19.9
3 22	10 56.77	- 4 11.3	1.766	2.732	6.3	20.9	3 22	10 56.54	+32 47.9	1.968	2.827	12.3	20.1
4 1	10 50.63	- 3 2.3	1.830	2.754	9.8	21.1	4 1	10 50.18	+32 43.3	2.027	2.817	14.7	20.2
4 11	10 46.56	- 2 0.3	1.919	2.775	13.0	21.4	4 11	10 45.98	+32 13.0	2.104	2.808	16.9	20.4
<b>336400</b>	2008 <i>UW</i> <sub>131</sub>		3 6.5 225°37	0°3/ 6.9 17			<b>466797</b>	2015 <i>BS</i> <sub>58</sub>		3 6.5 259°31	3°0/ 3.5 18		
2 1	11 31.27	+ 2 20.2	2.125	2.939	12.8	21.3	2 1	11 31.36	+11 7.7	1.969	2.809	12.6	20.7
2 11	11 26.74	+ 2 44.4	2.039	2.936	9.6	21.1	2 11	11 26.95	+12 4.5	1.893	2.807	9.3	20.4
2 21	11 20.33	+ 3 20.6	1.978	2.934	6.0	20.9	2 21	11 20.52	+13 8.3	1.842	2.805	5.7	20.2
3 2	11 12.63	+ 4 5.5	1.944	2.931	2.0	20.6	3 2	11 12.71	+14 12.4	1.819	2.803	3.0	20.0
3 12	11 4.47	+ 4 53.7	1.939	2.928	2.1	20.6	3 12	11 4.43	+15 9.5	1.824	2.801	4.7	20.1
3 22	10 56.71	+ 5 39.7	1.962	2.925	6.1	20.9	3 22	10 56.65	+15 53.6	1.858	2.799	8.2	20.4
4 1	10 50.20	+ 6 18.7	2.014	2.922	9.8	21.1	4 1	10 50.24	+16 21.0	1.916	2.796	11.7	20.6
4 11	10 45.54	+ 6 46.8	2.088	2.919	13.0	21.3	4 11	10 45.84	+16 30.2	1.996	2.794	14.7	20.8
<b>388736</b>	2007 <i>VA</i> <sub>267</sub>		3 6.5 26°64	2°5/ 9.5 18			<b>133113</b>	2003 <i>OO</i> <sub>22</sub>		3 6.5 199°41			

EPHEMERIDES

3 6.5

3 6.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>351579</b>	2005 <i>UF</i> <sub>326</sub>		3 6.5 174°21	5°6/ 1.7 18			<b>199212</b>	2006 <i>AH</i> <sub>22</sub>		3 6.5 33°22	9°3/29.6 18		
2 1	11 38.01	+16 46.0	1.657	2.502	14.3	21.5	2 1	11 35.55	+21 18.5	1.036	1.911	18.5	19.2
2 11	11 32.27	+18 3.0	1.592	2.504	10.8	21.3	2 11	11 31.31	+22 44.4	1.000	1.925	14.2	19.0
2 21	11 23.93	+19 22.6	1.550	2.507	7.3	21.1	2 21	11 23.61	+24 4.8	0.985	1.940	10.6	18.9
3 2	11 13.81	+20 35.0	1.536	2.508	5.6	21.0	3 2	11 13.72	+25 5.0	0.992	1.957	9.3	18.9
3 12	11 3.14	+21 30.7	1.550	2.509	7.5	21.1	3 12	11 3.48	+25 33.7	1.021	1.974	11.4	19.0
3 22	10 53.21	+22 3.5	1.590	2.509	11.0	21.3	3 22	10 54.65	+25 26.7	1.072	1.992	15.0	19.3
4 1	10 45.15	+22 11.1	1.653	2.509	14.6	21.5	4 1	10 48.56	+24 46.2	1.142	2.011	18.7	19.6
4 11	10 39.72	+21 55.0	1.737	2.508	17.6	21.7	4 11	10 45.84	+23 38.5	1.228	2.031	21.9	19.8
<b>413961</b>	2007 <i>CU</i>		3 6.5 112°52	5°5/ 1.2 18			<b>124148</b>	2001 <i>MU</i> <sub>20</sub>		3 6.5 179°88	2°8/ 4.0 18		
2 1	11 34.83	+17 46.2	1.849	2.695	13.0	21.0	2 1	11 37.25	+10 10.9	1.828	2.660	13.8	20.8
2 11	11 29.54	+19 5.8	1.795	2.708	9.8	20.9	2 11	11 31.48	+11 6.0	1.753	2.662	10.2	20.6
2 21	11 22.07	+20 25.9	1.766	2.720	6.8	20.7	2 21	11 23.38	+12 9.3	1.702	2.663	6.2	20.4
3 2	11 13.18	+21 37.6	1.764	2.733	5.5	20.7	3 2	11 13.67	+13 13.6	1.679	2.664	3.0	20.2
3 12	11 3.93	+22 32.8	1.791	2.745	7.2	20.8	3 12	11 3.41	+14 11.0	1.685	2.663	4.7	20.3
3 22	10 55.41	+23 6.5	1.844	2.757	10.2	21.0	3 22	10 53.75	+14 55.0	1.719	2.662	8.6	20.5
4 1	10 48.52	+23 17.1	1.921	2.768	13.2	21.2	4 1	10 45.72	+15 21.5	1.779	2.660	12.4	20.7
4 11	10 43.89	+23 5.9	2.019	2.779	15.8	21.4	4 11	10 40.02	+15 29.3	1.861	2.657	15.7	20.9
<b>194210</b>	2001 <i>TW</i> <sub>110</sub>		3 6.5 102°42	1°3/ 7.6 18			<b>142638</b>	2002 <i>TN</i> <sub>184</sub>		3 6.5 269°11	0°9/ 7.2 17		
2 1	11 37.75	- 0 28.8	1.649	2.457	16.1	21.1	2 1	11 35.37	+ 1 52.2	1.773	2.588	14.9	20.5
2 11	11 31.77	- 0 5.0	1.590	2.481	12.2	20.9	2 11	11 30.38	+ 1 56.8	1.673	2.569	11.4	20.3
2 21	11 23.44	+ 0 35.9	1.553	2.505	7.8	20.7	2 21	11 22.91	+ 2 15.3	1.596	2.551	7.3	20.0
3 2	11 13.61	+ 1 29.4	1.542	2.528	3.1	20.5	3 2	11 13.59	+ 2 44.8	1.545	2.532	2.7	19.7
3 12	11 3.44	+ 2 28.6	1.561	2.550	2.5	20.5	3 12	11 3.43	+ 3 20.3	1.523	2.513	2.5	19.6
3 22	10 54.11	+ 3 26.2	1.607	2.572	7.0	20.8	3 22	10 53.60	+ 3 55.9	1.528	2.493	7.3	19.8
4 1	10 46.61	+ 4 15.5	1.680	2.593	11.2	21.1	4 1	10 45.26	+ 4 25.7	1.560	2.474	11.8	20.1
4 11	10 41.55	+ 4 52.2	1.776	2.613	14.7	21.4	4 11	10 39.28	+ 4 44.9	1.614	2.454	15.8	20.3
<b>141828</b>	2002 <i>NV</i> <sub>59</sub>		3 6.5 159°62	1°4/ 5.1 18			<b>210341</b>	2007 <i>TB</i> <sub>386</sub>		3 6.5 115°63	3°4/ 2.4 18		
2 1	11 34.28	+ 6 45.7	2.071	2.894	12.7	21.4	2 1	11 30.65	+13 52.8	2.394	3.231	10.7	20.4
2 11	11 28.96	+ 7 35.4	1.996	2.900	9.4	21.2	2 11	11 26.03	+14 59.8	2.331	3.243	7.9	20.3
2 21	11 21.68	+ 8 34.7	1.946	2.907	5.6	21.0	2 21	11 19.78	+16 9.9	2.294	3.254	5.0	20.1
3 2	11 13.07	+ 9 38.2	1.924	2.912	1.9	20.8	3 2	11 12.47	+17 17.1	2.287	3.265	3.4	20.0
3 12	11 4.05	+10 39.1	1.933	2.917	3.3	20.9	3 12	11 4.87	+18 15.2	2.309	3.275	4.8	20.1
3 22	10 55.54	+11 31.3	1.970	2.921	7.1	21.1	3 22	10 57.73	+18 59.7	2.360	3.286	7.6	20.3
4 1	10 48.41	+12 10.5	2.035	2.925	10.7	21.3	4 1	10 51.77	+19 28.0	2.437	3.296	10.3	20.5
4 11	10 43.27	+12 34.3	2.122	2.928	13.7	21.6	4 11	10 47.47	+19 39.3	2.536	3.306	12.7	20.7
<b>376493</b>	2012 <i>KG</i> <sub>15</sub>		3 6.5 203°47	2°1/ 4.3 17			<b>110660</b>	2001 <i>TB</i> <sub>181</sub>		3 6.5 225°46	1°6/ 8.1 17		
2 1	11 31.96	+ 8 47.0	2.150	2.980	12.0	21.7	2 1	11 32.62	- 1 27.8	2.072	2.871	13.6	20.8
2 11	11 27.25	+ 9 40.2	2.068	2.977	8.9	21.4	2 11	11 27.89	- 1 9.1	1.978	2.863	10.5	20.5
2 21	11 20.66	+10 41.8	2.012	2.974	5.4	21.2	2 21	11 21.14	- 0 34.8	1.907	2.855	6.9	20.3
3 2	11 12.76	+11 46.1	1.984	2.970	2.3	21.0	3 2	11 12.97	+ 0 12.4	1.863	2.847	3.0	20.0
3 12	11 4.40	+12 46.3	1.985	2.966	3.7	21.1	3 12	11 4.22	+ 1 7.5	1.848	2.838	2.3	20.0
3 22	10 56.47	+13 36.7	2.016	2.962	7.3	21.3	3 22	10 55.85	+ 2 4.6	1.863	2.828	6.1	20.2
4 1	10 49.79	+14 13.0	2.072	2.957	10.8	21.5	4 1	10 48.73	+ 2 57.6	1.904	2.819	10.0	20.4
4 11	10 44.99	+14 33.2	2.152	2.952	13.7	21.7	4 11	10 43.56	+ 3 41.4	1.970	2.808	13.4	20.6
<b>434516</b>	2005 <i>SA</i> <sub>154</sub>		3 6.5 205°31	0°8/ 7.5 17			<b>268064</b>	2004 <i>RZ</i> <sub>50</sub>		3 6.5 234°04	1°3/ 5.2 17		
2 1	11 29.38	+ 0 34.8	2.933	3.729	10.1	22.0	2 1	11 30.50	+ 5 18.2	2.040	2.866	12.7	20.7
2 11	11 24.88	+ 0 55.8	2.839	3.724	7.7	21.9	2 11	11 26.31	+ 6 18.1	1.953	2.860	9.5	20.5
2 21	11 19.01	+ 1 26.6	2.770	3.720	4.9	21.7	2 21	11 20.17	+ 7 30.5	1.891	2.853	5.7	20.2
3 2	11 12.22	+ 2 4.9	2.729	3.715	1.9	21.5	3 2	11 12.66	+ 8 49.8	1.857	2.846	1.9	19.9
3 12	11 5.09	+ 2 47.0	2.720	3.710	1.6	21.4	3 12	11 4.62	+10 8.7	1.853	2.838	3.2	20.0
3 22	10 58.24	+ 3 29.2	2.741	3.704	4.6	21.6	3 22	10 56.98	+11 19.9	1.877	2.830	7.2	20.3
4 1	10 52.24	+ 4 7.7	2.791	3.698	7.5	21.8	4 1	10 50.61	+12 17.7	1.928	2.822	10.9	20.5
4 11	10 47.57	+ 4 39.4	2.866	3.692	10.0	22.0	4 11	10 46.14	+12 58.6	2.001	2.814	14.2	20.7
<b>354782</b>	2005 <i>UO</i> <sub>181</sub>		3 6.5 117°36	1°7/ 8.0 18			<b>246504</b>	Hualien		3 6.5 272°74	3°5/10.1 18		
2 1	11 34.53	- 2 8.6	1.515	2.327	17.1	21.5	2 1	11 31.74	- 6 40.6	2.480	3.247	12.5	20.3
2 11	11 29.74	- 1 39.0	1.445	2.338	13.1	21.3	2 11	11 26.96	- 7 0.6	2.379	3.237	10.1	20.1
2 21	11 22.42	- 0 48.0	1.396	2.348	8.5	21.1	2 21	11 20.46	- 7 6.6	2.302	3.228	7.3	19.9
3 2	11 13.36	+ 0 20.0	1.373	2.358	3.6	20.8	3 2	11 12.74	- 6 58.7	2.251	3.218	4.6	19.7
3 12	11 3.76	+ 1 37.2	1.377	2.367	2.7	20.8	3 12	11 4.52	- 6 39.2	2.229	3.209	3.6	19.6
3 22	10 54.88	+ 2 54.3	1.409	2.376	7.5	21.1	3 22	10 56.58	- 6 11.3	2.237	3.199	5.6	19.7
4 1	10 47.83	+ 4 2.8	1.466	2.385	12.0	21.3	4 1	10 49.67	- 5 39.4	2.273	3.190	8.5	19.9
4 11	10 43.34	+ 4 56.5	1.544	2.393	15.9	21.6	4 11	10 44.39	- 5 8.4	2.333	3.180	11.3	20.0
<b>275121</b>	2009 <i>VC</i> <sub>60</sub>		3 6.5 136°35	5°3/29.8 18			<b>354513</b>	2004 <i>QD</i> <sub>25</sub>		3 6.5 226°65	9°0/12.1 18		
2 1	11 32.97	+18 28.5	2.031	2.876	12.0	20.5	2 1	11 43.30	-15 56.4	1.912	2.623	17.5	20.7
2 11	11 28.09	+19 45.4	1.969	2.881	9.1	20.3	2 11	11 36.44	-17 25.3	1.808	2.613	15.1	20.5
2 21	11 21.18	+21 2.7	1.933	2.886	6.4	20.1	2 21	11 26.76	-18 34.6	1.726	2.602	12.4	20.3
3 2	11 12.93	+22 12.1	1.924	2.891	5.4	20.1	3 2	11 14.88	-19 19.3	1.668	2.590	10.0	20.1
3 12	11 4.29	+23 6.4	1.944	2.895	7.0	20.2	3 12	11 1.87	-19 36.6	1.637	2.577	9.0	20.0
3 22	10 56.23	+23 40.6	1.991	2.900	9.8	20.3	3 22	10 49.06	-19 27.9	1.634	2.564	10.0	20.1
4 1	10 49.61	+23 52.9	2.062	2.904	12.6	20.5	4 1	10 37.80	-18 58.6	1.657	2.550	12.5	20.2
4 11	10 45.05	+23 44.2	2.154	2.908	15.2	20.7	4 11	10 29.11	-18 17.1	1.704	2.536	15.4	20.3
<b>346351</b>	2008 <i>RB</i> <sub>118</sub>		3 6.5 247°59	0°4/ 6.9 17			<b>117056</b>	2004 <i>JJ</i> <sub>46</sub>		3 6.5 152°05	4°8/ 1.9 18		

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3 6.5

3 6.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>464089</b>	2014 <i>WT</i> <sub>331</sub>		3 6.5 154°07	0°7/ 5.8 18			<b>455558</b>	2004 <i>NV</i> <sub>24</sub>		3 6.6 181°03	9°5/14.5 18		
2 1	11 32.61	+ 3 56.0	2.016	2.835	13.1	22.2	2 1	11 41.72	-21 29.7	2.148	2.816	16.9	21.2
2 11	11 27.79	+ 4 49.4	1.940	2.841	9.8	21.9	2 11	11 34.91	-22 46.8	2.053	2.818	14.9	21.0
2 21	11 21.01	+ 5 55.6	1.888	2.847	5.9	21.7	2 21	11 25.62	-23 41.2	1.979	2.819	12.7	20.9
3 2	11 12.91	+ 7 9.0	1.864	2.853	1.8	21.5	3 2	11 14.48	-24 8.1	1.928	2.819	10.7	20.7
3 12	11 4.37	+ 8 22.5	1.870	2.858	2.8	21.5	3 12	11 2.50	-24 5.9	1.903	2.818	9.6	20.7
3 22	10 56.34	+ 9 29.4	1.905	2.862	6.8	21.8	3 22	10 50.85	-23 36.7	1.905	2.816	10.0	20.7
4 1	10 49.66	+10 24.0	1.967	2.866	10.6	22.0	4 1	10 40.66	-22 46.2	1.933	2.814	11.6	20.8
4 11	10 44.95	+11 3.2	2.053	2.869	13.7	22.2	4 11	10 32.81	-21 43.3	1.985	2.810	13.8	20.9
<b>75893</b>	2000 <i>CO</i> <sub>38</sub>		3 6.5 135°81	1°2/ 5.3 18			<b>332588</b>	2008 <i>SC</i> <sub>153</sub>		3 6.6 276°87	1°9/ 4.9 17		
2 1	11 31.21	+ 6 22.6	2.208	3.033	12.0	19.8	2 1	11 36.49	+ 9 36.5	2.052	2.878	12.7	21.3
2 11	11 26.59	+ 7 5.7	2.133	3.038	8.8	19.6	2 11	11 31.00	+ 9 58.8	1.944	2.850	9.5	21.0
2 21	11 20.20	+ 7 57.8	2.083	3.044	5.3	19.3	2 21	11 23.21	+10 28.1	1.861	2.822	5.9	20.8
3 2	11 12.64	+ 8 54.2	2.061	3.049	1.7	19.1	3 2	11 13.71	+10 59.6	1.806	2.793	2.3	20.5
3 12	11 4.70	+ 9 49.0	2.068	3.054	2.9	19.2	3 12	11 3.40	+11 27.7	1.781	2.764	3.7	20.5
3 22	10 57.22	+10 36.7	2.105	3.059	6.5	19.4	3 22	10 53.35	+11 47.1	1.784	2.734	7.8	20.7
4 1	10 50.97	+11 13.1	2.168	3.063	9.9	19.7	4 1	10 44.59	+11 54.1	1.814	2.704	11.8	20.9
4 11	10 46.49	+11 36.0	2.255	3.067	12.8	19.9	4 11	10 37.96	+11 46.6	1.867	2.674	15.3	21.0
<b>401968</b>	2002 <i>TE</i> <sub>138</sub>		3 6.5 120°00	0°4/ 6.9 18			<b>379031</b>	2008 <i>VW</i> <sub>60</sub>		3 6.6 64°70	0°0/ 6.3 17		
2 1	11 36.70	+ 1 57.9	2.447	3.241	11.9	23.9	2 1	11 30.56	+ 2 49.6	2.006	2.826	13.2	21.2
2 11	11 30.32	+ 2 25.5	2.381	3.268	8.9	23.8	2 11	11 26.29	+ 3 23.1	1.929	2.830	9.9	21.0
2 21	11 23.30	+ 3 3.4	2.342	3.294	5.5	23.6	2 21	11 20.11	+ 4 9.2	1.876	2.834	6.1	20.8
3 2	11 13.26	+ 3 47.9	2.332	3.319	1.9	23.4	3 2	11 12.65	+ 5 3.6	1.851	2.839	1.9	20.5
3 12	11 4.00	+ 4 34.3	2.353	3.342	1.9	23.4	3 12	11 4.76	+ 6 0.3	1.854	2.843	2.3	20.6
3 22	10 55.30	+ 5 18.0	2.405	3.365	5.4	23.7	3 22	10 57.36	+ 6 53.2	1.885	2.848	6.4	20.8
4 1	10 47.86	+ 5 55.1	2.487	3.387	8.6	23.9	4 1	10 51.27	+ 7 37.0	1.944	2.852	10.2	21.1
4 11	10 42.17	+ 6 22.7	2.593	3.407	11.3	24.1	4 11	10 47.10	+ 8 8.1	2.025	2.857	13.4	21.3
<b>298761</b>	2004 <i>HL</i> <sub>71</sub>		3 6.5 325°33	1°2/ 5.4 17			<b>160408</b>	2004 <i>VD</i> <sub>7</sub>		3 6.6 207°98	0°9/ 5.7 18		
2 1	11 30.71	+ 7 15.7	2.005	2.838	12.7	21.0	2 1	11 34.78	+ 4 37.4	1.889	2.710	13.8	21.3
2 11	11 26.49	+ 7 41.5	1.920	2.829	9.4	20.8	2 11	11 29.67	+ 5 25.1	1.802	2.705	10.4	21.1
2 21	11 20.29	+ 8 16.2	1.858	2.820	5.7	20.6	2 21	11 22.33	+ 6 26.1	1.739	2.699	6.3	20.8
3 2	11 12.70	+ 8 55.1	1.823	2.812	1.9	20.3	3 2	11 13.40	+ 7 35.0	1.703	2.692	1.9	20.5
3 12	11 4.60	+ 9 32.6	1.817	2.804	3.1	20.3	3 12	11 3.84	+ 8 44.4	1.697	2.684	3.1	20.6
3 22	10 56.93	+10 3.5	1.839	2.796	7.1	20.6	3 22	10 54.74	+ 9 47.1	1.719	2.676	7.5	20.9
4 1	10 50.55	+10 23.5	1.887	2.789	10.8	20.8	4 1	10 47.09	+10 37.1	1.769	2.667	11.6	21.1
4 11	10 46.12	+10 30.1	1.958	2.782	14.0	21.0	4 11	10 41.62	+11 10.8	1.840	2.657	15.1	21.3
<b>458882</b>	2011 <i>UV</i> <sub>163</sub>		3 6.6 61°21	3°3/ 9.2 18			<b>30440</b>	Larry		3 6.6 301°90	0°1/ 6.5 18		
2 1	11 33.72	- 4 58.2	1.400	2.209	18.4	21.3	2 1	11 30.49	+ 3 46.6	2.019	2.842	13.0	19.3
2 11	11 29.19	- 4 48.8	1.342	2.228	14.4	21.1	2 11	11 26.44	+ 4 9.4	1.919	2.821	9.8	19.0
2 21	11 22.07	- 4 15.3	1.304	2.248	9.8	20.9	2 21	11 20.35	+ 4 44.3	1.842	2.801	6.1	18.7
3 2	11 13.26	- 3 20.9	1.289	2.269	5.1	20.7	3 2	11 12.78	+ 5 27.6	1.793	2.781	1.9	18.4
3 12	11 4.03	- 2 13.0	1.301	2.289	3.6	20.6	3 12	11 4.56	+ 6 13.8	1.772	2.761	2.4	18.4
3 22	10 55.65	- 1 0.5	1.340	2.310	7.5	20.9	3 22	10 56.64	+ 6 57.3	1.779	2.741	6.7	18.6
4 1	10 49.23	+ 0 7.2	1.403	2.330	11.8	21.2	4 1	10 49.94	+ 7 32.6	1.812	2.721	10.7	18.8
4 11	10 45.44	+ 1 3.0	1.488	2.351	15.7	21.5	4 11	10 45.20	+ 7 55.8	1.869	2.702	14.2	19.0
<b>98781</b>	2000 <i>YF</i> <sub>91</sub>		3 6.6 324°05	1°3/ 5.6 18			<b>387126</b>	2012 <i>TQ</i> <sub>184</sub>		3 6.6 70°98	1°5/ 8.2 15		
2 1	11 32.09	+ 6 2.1	1.351	2.199	16.7	19.3	2 1	11 29.26	- 2 6.4	2.192	2.992	12.9	22.0
2 11	11 28.42	+ 6 30.6	1.270	2.187	12.6	19.0	2 11	11 25.13	- 1 36.5	2.119	3.004	9.9	21.9
2 21	11 21.92	+ 7 13.9	1.211	2.176	7.7	18.7	2 21	11 19.31	- 0 51.6	2.069	3.017	6.4	21.7
3 2	11 13.31	+ 8 5.8	1.176	2.165	2.4	18.3	3 2	11 12.37	+ 0 5.0	2.047	3.030	2.8	21.5
3 12	11 3.86	+ 8 57.6	1.167	2.155	3.9	18.4	3 12	11 5.11	+ 1 8.0	2.053	3.043	2.1	21.4
3 22	10 54.99	+ 9 40.8	1.183	2.145	9.3	18.6	3 22	10 58.32	+ 2 11.5	2.089	3.056	5.5	21.7
4 1	10 48.04	+10 8.5	1.222	2.136	14.3	18.9	4 1	10 52.72	+ 3 9.8	2.152	3.068	8.9	21.9
4 11	10 43.92	+10 17.2	1.281	2.128	18.6	19.1	4 11	10 48.83	+ 3 58.5	2.240	3.081	11.9	22.1
<b>10732</b>	1988 <i>BM</i> <sub>3</sub>		3 6.6 349°07	1°3/ 7.4 18			<b>190118</b>	2004 <i>VR</i> <sub>60</sub>		3 6.6 192°60	3°3/ 2.6 18		
2 1	11 29.35	+ 1 27.8	1.079	1.933	19.6	17.1	2 1	11 33.38	+14 46.5	2.561	3.392	10.3	21.2
2 11	11 26.85	+ 1 25.2	1.007	1.924	15.1	16.8	2 11	11 28.06	+15 40.9	2.482	3.390	7.7	21.0
2 21	11 21.17	+ 1 43.6	0.954	1.916	9.7	16.4	2 21	11 21.06	+16 38.0	2.430	3.387	5.0	20.8
3 2	11 13.11	+ 2 19.4	0.922	1.910	3.7	16.1	3 2	11 12.94	+17 32.2	2.407	3.384	3.3	20.7
3 12	11 4.11	+ 3 4.8	0.914	1.904	3.3	16.0	3 12	11 4.43	+18 17.9	2.414	3.380	4.7	20.8
3 22	10 55.84	+ 3 50.1	0.928	1.901	9.3	16.4	3 22	10 56.32	+18 51.1	2.451	3.376	7.4	20.9
4 1	10 49.80	+ 4 26.2	0.964	1.899	15.0	16.6	4 1	10 49.32	+19 9.2	2.514	3.370	10.2	21.1
4 11	10 46.98	+ 4 46.3	1.018	1.898	19.8	16.9	4 11	10 43.98	+19 11.7	2.601	3.365	12.6	21.3
<b>130225</b>	2000 <i>BW</i> <sub>10</sub>		3 6.6 43°54	3°0/ 3.5 18			<b>29150</b>	1988 <i>RM</i> <sub>5</sub>		3 6.6 110°66	0°9/ 5.6 18		
2 1	11 30.43	+10 32.2	1.854	2.697	13.1	20.1	2 1	11 30.31	+ 2 36.7	1.874	2.698	13.8	17.9
2 11	11 26.33	+11 35.5	1.787	2.703	9.6	19.9	2 11	11 26.21	+ 3 56.7	1.803	2.707	10.3	17.7
2 21	11 20.18	+12 46.4	1.745	2.709	5.9	19.6	2 21	11 20.10	+ 5 32.5	1.756	2.717	6.2	17.5
3 2	11 12.66	+13 57.7	1.730	2.715	3.1	19.5	3 2	11 12.66	+ 7 17.4	1.738	2.726	1.9	17.2
3 12	11 4.73	+15 1.5	1.744	2.721	4.8	19.6	3 12	11 4.80	+ 9 2.1	1.748	2.735	3.0	17.3
3 22	10 57.37	+15 51.4	1.785	2.727	8.4	19.8	3 22	10 57.47	+10 37.9	1.788	2.744	7.3	17.6
4 1	10 51.46	+16 23.5	1.851	2.734	11.9	20.0	4 1	10 51.54	+11 57.9	1.854	2.753	11.1	17.8
4 11	10 47.61	+16 36.3	1.938	2.741	15.0	20.3	4 11	10 47.63	+12 58.2	1.944	2.761	14.4	18.1
<b>148943</b>	2001 <i>XA</i> <sub>139</sub>		3 6.6 228°23	4°0/ 2.5 18			<b>464415</b>	2016 <i>BE</i> <sub>24</sub>		3 6.6 302°04	0°6/ 6.9 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>210675</b>	2000 <i>QF</i> <sub>213</sub>		3 6.6 152°45	1.4°/ 5.2 18			<b>466895</b>	2015 <i>DS</i> <sub>148</sub>		3 6.6 192°42	2.2°/ 8.8 17		
2 1	11 36.93	+10 15.7	2.703	3.517	10.3	20.4	2 1	11 32.27	- 3 14.7	2.227	3.015	13.1	21.1
2 11	11 30.49	+10 19.3	2.623	3.522	7.7	20.2	2 11	11 27.47	- 3 6.3	2.137	3.014	10.2	20.9
2 21	11 22.45	+10 26.2	2.569	3.527	4.6	20.0	2 21	11 20.84	- 2 42.9	2.071	3.013	6.9	20.7
3 2	11 13.37	+10 33.1	2.545	3.532	1.7	19.8	3 2	11 12.93	- 2 6.5	2.032	3.011	3.5	20.5
3 12	11 3.99	+10 36.7	2.553	3.536	2.7	19.9	3 12	11 4.56	- 1 21.2	2.022	3.009	2.5	20.4
3 22	10 55.06	+10 34.4	2.591	3.541	5.7	20.1	3 22	10 56.56	- 0 31.9	2.041	3.007	5.7	20.6
4 1	10 47.27	+10 24.5	2.659	3.544	8.7	20.3	4 1	10 49.75	+ 0 15.7	2.088	3.004	9.1	20.8
4 11	10 41.12	+10 6.0	2.752	3.548	11.2	20.4	4 11	10 44.75	+ 0 56.9	2.159	3.001	12.3	21.0
<b>18360</b>	Sachs		3 6.6 217°77	3°1/10.1 18			<b>9215</b>	Taiyonto		3 6.6 134°61	1°9/ 8.1 18		
2 1	11 30.99	- 7 19.1	2.429	3.195	12.8	19.8	2 1	11 36.61	- 1 54.0	1.647	2.451	16.3	18.1
2 11	11 26.44	- 7 5.3	2.328	3.187	10.2	19.6	2 11	11 31.16	- 1 36.2	1.575	2.463	12.5	17.9
2 21	11 20.18	- 6 34.5	2.250	3.179	7.3	19.4	2 21	11 23.27	- 0 59.5	1.525	2.474	8.2	17.7
3 2	11 12.70	- 5 47.8	2.200	3.170	4.3	19.2	3 2	11 13.72	- 0 7.5	1.500	2.484	3.6	17.4
3 12	11 4.74	- 4 49.0	2.178	3.161	3.2	19.1	3 12	11 3.66	+ 0 53.3	1.504	2.494	2.7	17.4
3 22	10 57.06	- 3 43.0	2.187	3.152	5.4	19.2	3 22	10 54.28	+ 1 55.4	1.536	2.503	7.1	17.6
4 1	10 50.44	- 2 35.8	2.224	3.142	8.6	19.4	4 1	10 46.64	+ 2 51.2	1.594	2.511	11.4	17.9
4 11	10 45.46	- 1 33.2	2.286	3.131	11.6	19.6	4 11	10 41.47	+ 3 35.3	1.675	2.519	15.1	18.2
<b>182037</b>	2000 <i>CE</i> <sub>52</sub>		3 6.6 351°97	2°3/ 4.2 18			<b>159686</b>	2002 <i>LB</i> <sub>6</sub>		3 6.6 76°46	14°5/23.7 16		
2 1	11 27.52	+ 4 35.2	1.466	2.313	15.7	19.2	2 1	12 2.49	-37 25.6	1.527	2.077	26.5	19.9
2 11	11 24.72	+ 6 19.8	1.393	2.311	11.6	18.9	2 11	11 50.31	-38 11.4	1.494	2.150	23.8	19.8
2 21	11 19.49	+ 8 24.7	1.343	2.309	6.9	18.7	2 21	11 34.66	-38 8.4	1.474	2.219	20.7	19.8
3 2	11 12.53	+10 39.9	1.319	2.307	2.6	18.4	3 2	11 17.16	-37 10.3	1.472	2.285	17.8	19.8
3 12	11 4.95	+12 52.2	1.323	2.306	4.8	18.5	3 12	10 59.94	-35 19.1	1.492	2.347	15.5	19.8
3 22	10 57.93	+14 48.9	1.353	2.305	9.6	18.8	3 22	10 44.93	-32 46.5	1.537	2.407	14.5	19.9
4 1	10 52.59	+16 20.9	1.408	2.304	14.1	19.1	4 1	10 33.40	-29 50.3	1.609	2.463	15.0	20.0
4 11	10 49.67	+17 24.0	1.483	2.304	17.9	19.3	4 11	10 25.83	-26 49.4	1.704	2.516	16.3	20.2
<b>114528</b>	2003 <i>BO</i> <sub>16</sub>		3 6.6 23°44	4°0/ 1.9 18			<b>382091</b>	2011 <i>GU</i> <sub>1</sub>		3 6.6 212°27	2°7/ 9.2 17		
2 1	11 28.37	+13 40.2	2.038	2.886	11.9	19.3	2 1	11 31.70	- 4 18.3	2.056	2.845	14.0	21.2
2 11	11 24.69	+15 2.4	1.972	2.889	8.8	19.1	2 11	11 27.20	- 4 14.7	1.968	2.844	11.0	21.0
2 21	11 19.15	+16 29.6	1.932	2.893	5.6	18.9	2 21	11 20.74	- 3 54.5	1.903	2.843	7.6	20.8
3 2	11 12.36	+17 54.1	1.920	2.897	4.0	18.8	3 2	11 12.92	- 3 19.4	1.864	2.842	4.1	20.6
3 12	11 5.19	+19 8.0	1.936	2.901	5.7	18.9	3 12	11 4.59	- 2 33.4	1.854	2.840	3.0	20.5
3 22	10 58.50	+20 5.2	1.980	2.906	8.8	19.1	3 22	10 56.67	- 1 42.0	1.872	2.839	6.0	20.7
4 1	10 53.10	+20 42.3	2.049	2.911	11.9	19.3	4 1	10 50.02	- 0 51.2	1.917	2.837	9.6	20.9
4 11	10 49.56	+20 58.6	2.138	2.916	14.5	19.5	4 11	10 45.30	- 0 6.6	1.986	2.835	12.9	21.1
<b>501369</b>	2013 <i>YD</i> <sub>45</sub>		3 6.6 46°16	4°4/10.6 17			<b>53266</b>	1999 <i>FY</i> <sub>11</sub>		3 6.6 116°71	0°1/ 6.4 18		
2 1	11 32.57	- 7 52.4	2.105	2.875	14.4	20.9	2 1	11 30.96	+ 3 29.7	2.488	3.298	11.2	20.2
2 11	11 27.73	- 8 20.3	2.026	2.884	11.6	20.7	2 11	11 26.20	+ 4 4.2	2.416	3.312	8.4	20.0
2 21	11 20.99	- 8 31.2	1.970	2.893	8.5	20.6	2 21	11 19.89	+ 4 48.2	2.369	3.326	5.1	19.8
3 2	11 12.95	- 8 25.1	1.939	2.903	5.6	20.4	3 2	11 12.59	+ 5 38.0	2.351	3.339	1.6	19.6
3 12	11 4.49	- 8 4.5	1.936	2.913	4.4	20.3	3 12	11 5.01	+ 6 28.7	2.363	3.352	2.0	19.6
3 22	10 56.49	- 7 33.7	1.961	2.923	6.2	20.5	3 22	10 57.86	+ 7 15.6	2.405	3.364	5.4	19.9
4 1	10 49.79	- 6 57.9	2.013	2.933	9.2	20.7	4 1	10 51.80	+ 7 54.8	2.475	3.376	8.6	20.1
4 11	10 45.00	- 6 22.8	2.090	2.944	12.1	20.9	4 11	10 47.32	+ 8 23.5	2.570	3.388	11.2	20.3
<b>81700</b>	2000 <i>JU</i> <sub>19</sub>		3 6.6 230°37	5°7/12.4 18			<b>371166</b>	2005 <i>YT</i> <sub>31</sub>		3 6.6 126°53	5°5/11.9 16		
2 1	11 32.11	-13 40.4	2.172	2.908	15.0	19.0	2 1	11 34.80	-11 51.4	2.182	2.923	14.8	21.2
2 11	11 27.56	-13 48.4	2.068	2.898	12.5	18.8	2 11	11 29.38	-12 21.7	2.099	2.933	12.2	21.1
2 21	11 21.02	-13 34.3	1.986	2.887	9.7	18.6	2 21	11 22.02	-12 32.8	2.038	2.943	9.3	20.9
3 2	11 13.01	-12 57.3	1.928	2.876	7.0	18.4	3 2	11 13.31	-12 24.0	2.003	2.952	6.7	20.8
3 12	11 4.37	-11 57.7	1.897	2.864	5.7	18.3	3 12	11 4.14	-11 57.3	1.995	2.962	5.5	20.7
3 22	10 56.03	-10 46.4	1.895	2.852	6.9	18.4	3 22	10 55.42	-11 16.8	2.016	2.970	6.7	20.8
4 1	10 48.88	- 9 24.7	1.920	2.839	9.7	18.5	4 1	10 48.01	-10 28.4	2.064	2.979	9.3	21.0
4 11	10 43.65	- 8 2.6	1.971	2.826	12.7	18.7	4 11	10 42.53	- 9 38.6	2.137	2.987	12.1	21.2
<b>500814</b>	2013 <i>GL</i> <sub>82</sub>		3 6.6 299°92	1°9/ 7.9 17			<b>276899</b>	2004 <i>SL</i> <sub>4</sub>		3 6.6 158°02	1°5/ 8.1 17		
2 1	11 32.50	- 0 43.4	1.451	2.275	17.1	21.5	2 1	11 32.34	- 1 18.0	2.118	2.917	13.3	21.6
2 11	11 28.68	- 0 37.6	1.359	2.259	13.3	21.2	2 11	11 27.56	- 0 59.7	2.035	2.920	10.2	21.4
2 21	11 22.11	- 0 12.1	1.289	2.243	8.8	20.9	2 21	11 20.90	- 0 26.8	1.975	2.924	6.7	21.2
3 2	11 13.44	+ 0 30.8	1.242	2.227	3.8	20.6	3 2	11 12.95	+ 0 17.9	1.943	2.927	2.9	21.0
3 12	11 3.83	+ 1 24.9	1.221	2.211	3.0	20.5	3 12	11 4.56	+ 1 9.5	1.940	2.930	2.2	20.9
3 22	10 54.63	+ 2 22.2	1.226	2.196	8.1	20.7	3 22	10 56.62	+ 2 2.4	1.966	2.932	5.9	21.2
4 1	10 47.18	+ 3 14.0	1.256	2.180	13.1	21.0	4 1	10 49.94	+ 2 50.9	2.020	2.934	9.5	21.4
4 11	10 42.44	+ 3 53.4	1.306	2.166	17.6	21.2	4 11	10 45.14	+ 3 30.4	2.098	2.936	12.7	21.6
<b>74040</b>	1998 <i>HU</i> <sub>83</sub>		3 6.6 260°78	0°8/ 5.8 17			<b>189461</b>	1999 <i>RA</i> <sub>121</sub>		3 6.6 100°90	4°3/10.8 18		
2 1	11 32.83	+ 4 13.3	1.766	2.593	14.4	19.6	2 1	11 36.00	- 8 51.6	2.248	3.001	14.0	19.6
2 11	11 28.48	+ 5 0.3	1.670	2.576	10.8	19.3	2 11	11 30.07	- 9 12.8	2.177	3.024	11.3	19.5
2 21	11 21.76	+ 6 2.7	1.598	2.559	6.6	19.1	2 21	11 22.32	- 9 16.8	2.128	3.046	8.3	19.3
3 2	11 13.28	+ 7 15.1	1.553	2.541	2.0	18.7	3 2	11 13.37	- 9 4.0	2.106	3.067	5.5	19.2
3 12	11 4.04	+ 8 29.8	1.536	2.523	3.2	18.8	3 12	11 4.10	- 8 37.1	2.114	3.089	4.3	19.2
3 22	10 55.15	+ 9 38.4	1.547	2.505	7.9	19.0	3 22	10 55.38	- 8 0.4	2.150	3.109	6.0	19.3
4 1	10 47.71	+10 34.0	1.584	2.487	12.4	19.2	4 1	10 47.99	- 7 19.3	2.215	3.129	8.8	19.5
4 11	10 42.56	+11 12.0	1.642	2.468	16.2	19.4	4 11	10 42.48	- 6 39.3	2.304	3.149	11.5	19.7
<b>30603</b>	2106 <i>P-L</i>		3 6.6 216°28	2°7/ 9.3 18			<b>495972</b>	2007 <i>TY</i> <sub>11</sub>		3 6.6 138°76	2°2/ 3.9 17		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>163649</b>	2002 VR <sub>36</sub>		3 6.6 119°70	0°1/ 6.7 18			<b>212638</b>	2006 UE <sub>2</sub>		3 6.6 213°64	2°2/ 3.8 17		
2 1	11 30.95	+ 2 36.6	2.495	3.303	11.3	21.0	2 1	11 30.31	+11 6.8	2.634	3.463	10.1	21.4
2 11	11 26.19	+ 3 9.6	2.422	3.316	8.4	20.8	2 11	11 25.77	+11 52.2	2.551	3.459	7.4	21.2
2 21	11 19.90	+ 3 52.7	2.374	3.329	5.2	20.6	2 21	11 19.69	+12 42.5	2.494	3.455	4.6	21.0
3 2	11 12.60	+ 4 42.3	2.354	3.342	1.7	20.4	3 2	11 12.58	+13 32.9	2.466	3.450	2.3	20.8
3 12	11 5.02	+ 5 33.5	2.365	3.354	1.9	20.4	3 12	11 5.11	+14 18.6	2.469	3.445	3.6	20.9
3 22	10 57.86	+ 6 21.8	2.406	3.366	5.3	20.7	3 22	10 57.97	+14 55.3	2.500	3.440	6.5	21.1
4 1	10 51.79	+ 7 3.0	2.475	3.378	8.5	20.9	4 1	10 51.84	+15 20.0	2.559	3.435	9.3	21.2
4 11	10 47.29	+ 7 34.0	2.568	3.389	11.2	21.1	4 11	10 47.23	+15 31.2	2.641	3.429	11.8	21.4
<b>13934</b>	Kannami		3 6.6 218°21	4°4/ 2.4 18			<b>27904</b>	1996 SV <sub>4</sub>		3 6.6 179°00	0°3/ 6.1 18		
2 1	11 37.00	+14 12.0	1.899	2.736	13.1	18.0	2 1	11 30.76	+ 4 35.8	2.819	3.628	10.1	20.4
2 11	11 31.43	+15 24.7	1.815	2.726	9.8	17.8	2 11	11 25.97	+ 5 7.1	2.733	3.629	7.5	20.2
2 21	11 23.49	+16 43.4	1.757	2.715	6.4	17.6	2 21	11 19.76	+ 5 46.4	2.673	3.630	4.6	20.0
3 2	11 13.83	+17 59.7	1.726	2.704	4.4	17.4	3 2	11 12.60	+ 6 30.4	2.642	3.630	1.4	19.8
3 12	11 3.51	+19 4.8	1.725	2.691	6.2	17.5	3 12	11 5.11	+ 7 15.0	2.642	3.630	2.0	19.8
3 22	10 53.65	+19 52.0	1.752	2.678	9.7	17.7	3 22	10 57.94	+ 7 56.2	2.673	3.630	5.1	20.1
4 1	10 45.32	+20 17.5	1.804	2.664	13.3	17.9	4 1	10 51.70	+ 8 30.3	2.732	3.629	8.0	20.2
4 11	10 39.31	+20 21.0	1.876	2.648	16.5	18.1	4 11	10 46.88	+ 8 55.1	2.816	3.628	10.6	20.4
<b>298962</b>	2004 VV <sub>14</sub>		3 6.6 54°10	1°8/ 5.1 18			<b>431306</b>	2006 VG <sub>69</sub>		3 6.6 198°16	8°0/ 21.2 17		
2 1	11 32.86	+ 5 9.4	1.255	2.104	17.7	19.9	2 1	11 35.50	+39 41.6	3.229	4.023	9.3	22.1
2 11	11 28.76	+ 6 16.4	1.207	2.124	13.0	19.7	2 11	11 29.62	+41 0.9	3.182	4.019	8.4	22.0
2 21	11 21.91	+ 7 39.6	1.180	2.145	7.8	19.5	2 21	11 22.04	+42 8.4	3.161	4.015	8.0	22.0
3 2	11 13.28	+ 9 9.4	1.177	2.165	2.6	19.2	3 2	11 13.32	+42 58.3	3.166	4.010	8.4	22.0
3 12	11 4.28	+10 34.3	1.200	2.187	4.3	19.4	3 12	11 4.27	+43 26.5	3.196	4.004	9.3	22.1
3 22	10 56.26	+11 44.1	1.249	2.208	9.4	19.7	3 22	10 55.67	+43 31.5	3.250	3.999	10.5	22.1
4 1	10 50.35	+12 32.6	1.322	2.230	14.0	20.0	4 1	10 48.26	+43 14.2	3.325	3.992	11.7	22.2
4 11	10 47.21	+12 57.5	1.414	2.251	17.7	20.3	4 11	10 42.59	+42 37.1	3.417	3.986	12.8	22.3
<b>370775</b>	2004 RR <sub>335</sub>		3 6.6 76°23	1°9/ 8.4 18			<b>499084</b>	2009 FQ <sub>13</sub>		3 6.6 5°57	0°0/ 6.4 17		
2 1	11 32.65	- 2 19.2	1.902	2.702	14.5	21.6	2 1	11 33.10	+ 4 35.6	2.214	3.030	12.3	21.0
2 11	11 27.83	- 2 0.7	1.837	2.723	11.2	21.4	2 11	11 28.06	+ 4 39.6	2.131	3.030	9.2	20.8
2 21	11 21.04	- 1 25.8	1.795	2.743	7.3	21.2	2 21	11 21.20	+ 4 52.4	2.073	3.030	5.7	20.5
3 2	11 12.99	- 0 37.7	1.780	2.762	3.4	21.0	3 2	11 13.09	+ 5 10.8	2.042	3.030	1.8	20.3
3 12	11 4.61	+ 0 17.9	1.793	2.782	2.4	21.0	3 12	11 4.55	+ 5 30.7	2.041	3.030	2.1	20.3
3 22	10 56.85	+ 1 14.7	1.835	2.802	6.1	21.2	3 22	10 56.46	+ 5 48.3	2.069	3.031	6.0	20.6
4 1	10 50.54	+ 2 6.6	1.904	2.821	9.8	21.5	4 1	10 49.60	+ 5 59.8	2.125	3.032	9.5	20.8
4 11	10 46.26	+ 2 48.7	1.996	2.841	13.0	21.7	4 11	10 44.57	+ 6 2.7	2.204	3.032	12.5	21.0
<b>27726</b>	1990 QM <sub>5</sub>		3 6.6 163°99	0°6/ 5.7 18			<b>93751</b>	2000 WH <sub>1</sub>		3 6.6 110°51	12°7/ 22.9 18		
2 1	11 30.18	+ 5 29.1	2.967	3.777	9.6	19.9	2 1	11 49.89	+42 41.0	1.940	2.729	14.7	19.5
2 11	11 25.45	+ 6 7.7	2.885	3.783	7.1	19.7	2 11	11 40.98	+44 22.8	1.927	2.756	13.4	19.5
2 21	11 19.38	+ 6 53.5	2.830	3.788	4.3	19.5	2 21	11 29.11	+45 40.8	1.937	2.782	12.7	19.5
3 2	11 12.45	+ 7 43.1	2.804	3.792	1.3	19.3	3 2	11 15.53	+46 24.9	1.971	2.807	13.0	19.6
3 12	11 5.23	+ 8 32.3	2.810	3.797	2.1	19.4	3 12	11 1.89	+46 30.5	2.027	2.831	14.0	19.7
3 22	10 58.32	+ 9 17.1	2.846	3.800	5.0	19.6	3 22	10 49.75	+45 58.8	2.105	2.854	15.4	19.8
4 1	10 52.31	+ 9 54.2	2.911	3.803	7.8	19.8	4 1	10 40.23	+44 55.2	2.201	2.876	16.8	20.0
4 11	10 47.64	+10 21.4	3.001	3.806	10.1	19.9	4 11	10 33.91	+43 27.5	2.312	2.898	18.1	20.2
<b>326337</b>	2000 QC <sub>145</sub>		3 6.6 219°73	1°0/ 5.4 18			<b>296947</b>	2010 DS <sub>78</sub>		3 6.6 261°42	2°7/ 3.5 17		
2 1	11 30.60	+ 3 45.8	2.321	3.137	11.8	21.1	2 1	11 29.74	+10 5.3	2.121	2.959	11.9	20.1
2 11	11 26.24	+ 5 1.2	2.227	3.128	8.8	20.9	2 11	11 25.70	+11 12.0	2.043	2.956	8.7	19.9
2 21	11 20.11	+ 6 30.0	2.159	3.118	5.3	20.7	2 21	11 19.82	+12 26.7	1.990	2.953	5.3	19.7
3 2	11 12.73	+ 8 7.0	2.120	3.108	1.7	20.4	3 2	11 12.67	+13 42.7	1.966	2.950	2.8	19.5
3 12	11 4.86	+ 9 44.8	2.112	3.097	2.8	20.5	3 12	11 5.07	+14 53.1	1.970	2.947	4.3	19.6
3 22	10 57.28	+11 16.1	2.134	3.086	6.6	20.7	3 22	10 57.90	+15 51.4	2.003	2.944	7.8	19.8
4 1	10 50.80	+12 34.9	2.184	3.074	10.1	20.9	4 1	10 51.95	+16 33.5	2.062	2.941	11.1	20.0
4 11	10 46.01	+13 37.2	2.259	3.062	13.1	21.1	4 11	10 47.82	+16 57.4	2.143	2.938	14.0	20.2
<b>273373</b>	2006 UT <sub>266</sub>		3 6.6 71°73	9°4/ 27.9 18			<b>389991</b>	2012 TP <sub>290</sub>		3 6.6 165°06	6°5/ 28.0 15		
2 1	11 39.94	+28 5.6	1.620	2.463	14.7	20.5	2 1	11 33.98	+25 29.8	2.351	3.187	10.9	21.1
2 11	11 33.77	+29 19.7	1.575	2.473	11.9	20.4	2 11	11 28.71	+26 33.7	2.290	3.188	8.7	20.9
2 21	11 24.86	+30 23.2	1.553	2.482	9.9	20.3	2 21	11 21.57	+27 32.2	2.255	3.189	6.9	20.8
3 2	11 14.22	+31 5.3	1.556	2.492	9.5	20.3	3 2	11 13.20	+28 18.3	2.248	3.190	6.6	20.8
3 12	11 3.24	+31 18.5	1.584	2.502	11.0	20.4	3 12	11 4.49	+28 46.2	2.268	3.190	7.9	20.9
3 22	10 53.32	+31 0.7	1.637	2.512	13.5	20.5	3 22	10 56.32	+28 53.1	2.315	3.191	10.0	21.0
4 1	10 45.57	+30 14.0	1.711	2.522	16.1	20.7	4 1	10 49.51	+28 38.5	2.385	3.191	12.3	21.1
4 11	10 40.64	+29 3.7	1.802	2.532	18.5	20.9	4 11	10 44.61	+28 4.5	2.476	3.192	14.3	21.3
<b>433188</b>	2012 US <sub>8</sub>		3 6.6 254°44	1°0/ 7.7 17			<b>464012</b>	2014 WA <sub>108</sub>		3 6.6 79°76	2°7/ 4.0 18		
2 1	11 28.58	- 1 1.0	2.244	3.047	12.5	21.3	2 1	11 32.23	+ 8 40.4	1.686	2.527	14.3	21.1
2 11	11 24.72	- 0 21.2	2.156	3.046	9.6	21.1	2 11	11 27.83	+ 9 50.9	1.625	2.540	10.5	20.8
2 21	11 19.16	+ 0 33.7	2.093	3.044	6.1	20.9	2 21	11 21.20	+11 11.4	1.588	2.552	6.3	20.6
3 2	11 12.42	+ 1 40.0	2.057	3.042	2.4	20.7	3 2	11 13.11	+12 33.9	1.578	2.564	2.9	20.4
3 12	11 5.26	+ 2 52.3	2.050	3.040	1.9	20.6	3 12	11 4.61	+13 49.3	1.597	2.577	4.6	20.6
3 22	10 58.47	+ 4 4.2	2.073	3.038	5.6	20.8	3 22	10 56.78	+14 50.2	1.642	2.589	8.7	20.8
4 1	10 52.79	+ 5 9.9	2.123	3.036	9.2	21.1	4 1	10 50.58	+15 31.8	1.713	2.601	12.4	21.1
4 11	10 48.79	+ 6 4.6	2.198	3.035	12.3	21.3	4 11	10 46.64	+15 52.6	1.805	2.613	15.7	21.3
<b>468355</b>	2016 EF <sub>144</sub>		3 6.6 268°54	0°0/ 6.4 17			<b>343078</b>	2009 CN <sub>63</sub>		3 6.6 68°68	3°1/ 2.7 17		
2 1	11 33.38	+ 3 44.8	1.887	2.708	13.8	21.5							



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>61151</b>	2000 <i>NV</i> <sub>12</sub>		3 6.6 257°72	1°9/ 8.2 18			<b>425812</b>	2011 <i>DX</i> <sub>15</sub>		3 6.6 149°36	0°0/ 6.4 17		
2 1	11 33.21	- 2 8.6	1.601	2.412	16.4	19.9	2 1	11 33.90	+ 4 0.0	1.978	2.796	13.4	21.4
2 11	11 28.98	- 1 48.8	1.509	2.401	12.7	19.6	2 11	11 28.87	+ 4 17.4	1.898	2.798	10.1	21.2
2 21	11 22.20	- 1 8.3	1.439	2.390	8.4	19.4	2 21	11 21.79	+ 4 45.7	1.843	2.800	6.2	20.9
3 2	11 13.52	- 0 9.8	1.394	2.378	3.8	19.1	3 2	11 13.33	+ 5 21.1	1.814	2.802	2.0	20.7
3 12	11 4.03	+ 1 0.3	1.376	2.366	2.8	19.0	3 12	11 4.39	+ 5 58.3	1.815	2.804	2.4	20.7
3 22	10 54.96	+ 2 13.6	1.385	2.353	7.5	19.2	3 22	10 55.95	+ 6 32.0	1.844	2.806	6.6	21.0
4 1	10 47.51	+ 3 21.3	1.420	2.341	12.2	19.4	4 1	10 48.92	+ 6 57.7	1.900	2.807	10.4	21.2
4 11	10 42.54	+ 4 16.3	1.476	2.328	16.4	19.7	4 11	10 43.91	+ 7 12.3	1.979	2.809	13.7	21.4
<b>176788</b>	2002 <i>SF</i> <sub>19</sub>		3 6.6 161°70	1°6/ 5.2 18			<b>130971</b>	2000 <i>WP</i> <sub>114</sub>		3 6.6 118°70	1°3/ 5.5 18		
2 1	11 35.58	+ 7 52.4	1.871	2.699	13.6	21.1	2 1	11 36.90	+ 6 27.9	1.770	2.596	14.4	19.8
2 11	11 30.21	+ 8 26.9	1.796	2.703	10.1	20.9	2 11	11 31.17	+ 7 7.7	1.707	2.612	10.7	19.6
2 21	11 22.65	+ 9 10.4	1.745	2.706	6.1	20.6	2 21	11 23.21	+ 7 57.9	1.667	2.627	6.4	19.4
3 2	11 13.59	+ 9 57.3	1.721	2.709	2.2	20.4	3 2	11 13.77	+ 8 52.6	1.654	2.642	2.1	19.1
3 12	11 4.04	+10 40.9	1.726	2.711	3.5	20.5	3 12	11 3.95	+ 9 44.4	1.671	2.657	3.3	19.3
3 22	10 55.08	+11 15.5	1.760	2.713	7.6	20.7	3 22	10 54.86	+10 27.2	1.716	2.671	7.6	19.6
4 1	10 47.64	+11 37.1	1.820	2.715	11.5	21.0	4 1	10 47.43	+10 56.5	1.787	2.684	11.5	19.8
4 11	10 42.41	+11 43.6	1.902	2.717	14.8	21.2	4 11	10 42.32	+11 10.3	1.880	2.696	14.8	20.1
<b>500596</b>	2012 <i>UH</i> <sub>111</sub>		3 6.6 142°64	0°9/ 5.5 17			<b>281762</b>	2009 <i>DJ</i> <sub>58</sub>		3 6.6 222°17	1°2/ 5.5 17		
2 1	11 30.16	+ 6 12.2	2.604	3.422	10.5	22.0	2 1	11 34.46	+ 5 36.3	2.005	2.826	13.1	21.6
2 11	11 25.62	+ 6 52.4	2.526	3.428	7.8	21.8	2 11	11 29.41	+ 6 23.4	1.913	2.816	9.8	21.4
2 21	11 19.59	+ 7 40.3	2.475	3.435	4.7	21.7	2 21	11 22.23	+ 7 22.4	1.846	2.806	6.0	21.1
3 2	11 12.57	+ 8 32.0	2.453	3.441	1.5	21.4	3 2	11 13.52	+ 8 28.1	1.806	2.795	1.9	20.8
3 12	11 5.24	+ 9 22.4	2.461	3.447	2.4	21.5	3 12	11 4.18	+ 9 33.6	1.797	2.783	3.1	20.9
3 22	10 58.30	+10 7.2	2.499	3.452	5.6	21.7	3 22	10 55.22	+10 32.1	1.816	2.770	7.3	21.1
4 1	10 52.37	+10 42.9	2.564	3.458	8.6	21.9	4 1	10 47.60	+11 18.1	1.862	2.757	11.3	21.3
4 11	10 47.94	+11 7.0	2.654	3.463	11.2	22.1	4 11	10 42.05	+11 48.3	1.931	2.743	14.7	21.5
<b>411269</b>	2010 <i>RJ</i> <sub>153</sub>		3 6.6 34°59	4°0/ 9.6 18			<b>359382</b>	2010 <i>FA</i> <sub>75</sub>		3 6.6 292°02	2°7/ 8.4 17		
2 1	11 32.55	- 4 58.6	1.338	2.152	18.8	20.7	2 1	11 34.79	- 1 48.2	1.503	2.317	17.1	21.4
2 11	11 28.55	- 5 12.9	1.277	2.165	14.9	20.4	2 11	11 30.61	- 1 56.4	1.395	2.287	13.6	21.1
2 21	11 21.87	- 5 3.6	1.235	2.179	10.3	20.2	2 21	11 23.53	- 1 45.5	1.307	2.257	9.2	20.8
3 2	11 13.36	- 4 32.3	1.216	2.193	5.8	20.0	3 2	11 14.08	- 1 16.4	1.244	2.227	4.5	20.4
3 12	11 4.33	- 3 44.8	1.222	2.208	4.2	19.9	3 12	11 3.38	- 0 33.3	1.207	2.196	3.4	20.2
3 22	10 56.11	- 2 49.2	1.253	2.224	7.8	20.2	3 22	10 52.82	+ 0 16.9	1.196	2.165	8.3	20.4
4 1	10 49.87	- 1 54.5	1.309	2.240	12.1	20.5	4 1	10 43.87	+ 1 5.9	1.210	2.135	13.6	20.6
4 11	10 46.32	- 1 8.4	1.386	2.257	16.1	20.7	4 11	10 37.69	+ 1 45.8	1.245	2.104	18.4	20.8
<b>293819</b>	2007 <i>RH</i> <sub>180</sub>		3 6.6 87°51	3°2/ 4.4 18			<b>367172</b>	2006 <i>XT</i> <sub>5</sub>		3 6.6 101°96	1°6/ 5.0 18		
2 1	11 39.46	+12 5.7	1.526	2.367	15.5	20.0	2 1	11 34.44	+ 6 35.4	1.900	2.727	13.5	21.5
2 11	11 33.45	+12 30.7	1.463	2.376	11.5	19.8	2 11	11 29.17	+ 7 33.9	1.842	2.749	9.9	21.3
2 21	11 24.75	+13 0.7	1.422	2.384	7.1	19.6	2 21	11 21.89	+ 8 42.3	1.809	2.770	5.9	21.1
3 2	11 14.27	+13 28.8	1.408	2.393	3.4	19.4	3 2	11 13.34	+ 9 54.1	1.803	2.791	2.1	20.9
3 12	11 3.32	+13 47.8	1.422	2.402	5.0	19.5	3 12	11 4.48	+11 1.8	1.827	2.811	3.5	21.0
3 22	10 53.25	+13 52.8	1.462	2.411	9.3	19.8	3 22	10 56.30	+11 59.0	1.880	2.831	7.4	21.3
4 1	10 45.20	+13 41.5	1.527	2.419	13.4	20.0	4 1	10 49.64	+12 41.3	1.958	2.850	11.0	21.5
4 11	10 39.89	+13 13.9	1.613	2.428	16.9	20.3	4 11	10 45.06	+13 6.6	2.060	2.869	14.0	21.8
<b>303362</b>	2004 <i>UR</i> <sub>7</sub>		3 6.6 118°83	3°8/ 9.8 18			<b>416285</b>	2003 <i>OW</i> <sub>25</sub>		3 6.6 179°69	2°2/ 8.8 17		
2 1	11 35.28	- 6 19.8	1.652	2.441	16.9	20.9	2 1	11 31.77	- 3 21.5	2.157	2.948	13.4	21.1
2 11	11 30.23	- 6 20.3	1.578	2.451	13.4	20.7	2 11	11 27.18	- 3 9.5	2.070	2.948	10.4	20.9
2 21	11 22.77	- 5 58.9	1.525	2.461	9.4	20.5	2 21	11 20.74	- 2 41.9	2.006	2.949	7.0	20.7
3 2	11 13.66	- 5 17.2	1.497	2.471	5.4	20.3	3 2	11 13.01	- 2 0.7	1.969	2.949	3.5	20.5
3 12	11 4.00	- 4 20.3	1.496	2.481	4.0	20.2	3 12	11 4.81	- 1 10.4	1.961	2.949	2.5	20.4
3 22	10 54.98	- 3 15.5	1.523	2.490	7.1	20.4	3 22	10 57.01	- 0 16.3	1.982	2.948	5.7	20.6
4 1	10 47.66	- 2 11.0	1.576	2.499	11.1	20.7	4 1	10 50.44	+ 0 35.6	2.030	2.948	9.3	20.8
4 11	10 42.77	- 1 14.2	1.651	2.507	14.7	20.9	4 11	10 45.69	+ 1 20.4	2.103	2.947	12.4	21.0
<b>306423</b>	1998 <i>QR</i> <sub>28</sub>		3 6.6 177°21	2°0/ 8.7 17			<b>405219</b>	2003 <i>QY</i> <sub>114</sub>		3 6.6 200°90	1°4/ 5.2 18		
2 1	11 33.98	- 3 13.5	2.179	2.966	13.4	22.3	2 1	11 34.89	+ 6 24.0	2.065	2.886	12.8	22.1
2 11	11 28.79	- 2 55.2	2.091	2.968	10.4	22.1	2 11	11 29.63	+ 7 13.7	1.978	2.882	9.5	21.9
2 21	11 21.70	- 2 21.0	2.027	2.970	7.0	21.9	2 21	11 22.30	+ 8 14.2	1.917	2.877	5.8	21.7
3 2	11 13.29	- 1 33.5	1.990	2.971	3.4	21.7	3 2	11 13.53	+ 9 20.0	1.883	2.871	2.0	21.4
3 12	11 4.41	- 0 37.1	1.983	2.971	2.4	21.6	3 12	11 4.21	+10 24.2	1.880	2.865	3.2	21.5
3 22	10 55.93	+ 0 22.3	2.005	2.971	5.8	21.8	3 22	10 55.31	+11 20.5	1.906	2.858	7.2	21.7
4 1	10 48.72	+ 1 18.8	2.056	2.970	9.4	22.0	4 1	10 47.75	+12 3.7	1.959	2.850	11.0	21.9
4 11	10 43.38	+ 2 7.3	2.131	2.968	12.6	22.3	4 11	10 42.20	+12 31.2	2.035	2.841	14.2	22.1
<b>501002</b>	2013 <i>RG</i> <sub>28</sub>		3 6.6 103°91	2°4/ 4.5 17			<b>417237</b>	2005 <i>YY</i> <sub>91</sub>		3 6.6 79°76	6°7/ 12.9 18		
2 1	11 34.08	+10 21.5	1.923	2.758	13.0	21.4	2 1	11 36.44	-14 16.0	1.937	2.671	16.6	21.1
2 11	11 29.06	+10 54.9	1.848	2.759	9.7	21.2	2 11	11 30.76	-14 58.1	1.870	2.694	13.9	20.9
2 21	11 21.93	+11 34.6	1.798	2.760	5.9	20.9	2 21	11 22.94	-15 17.1	1.824	2.718	10.9	20.8
3 2	11 13.37	+12 15.0	1.775	2.761	2.6	20.7	3 2	11 13.70	-15 11.9	1.802	2.741	8.1	20.6
3 12	11 4.34	+12 49.9	1.780	2.761	4.0	20.8	3 12	11 4.06	-14 44.6	1.806	2.764	6.8	20.6
3 22	10 55.87	+13 14.2	1.814	2.762	7.8	21.1	3 22	10 55.05	-13 59.9	1.838	2.787	7.7	20.7
4 1	10 48.86	+13 24.6	1.873	2.763	11.5	21.3	4 1	10 47.60	-13 5.0	1.896	2.809	10.1	20.9
4 11	10 43.97	+13 19.7	1.955	2.764	14.6	21.5	4 11	10 42.33	-12 7.5	1.979	2.832	12.8	21.1
<b>415988</b>	2002 <i>AU</i> <sub>15</sub>		3 6.6 36°50	19°8/ 9.8 17			<b>435337</b>	2007 <i>VE</i> <sub>59</sub>		3 6.6 174°18			

EPHEMERIDES

3 6.6

3 6.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>124598</b>	2001 <i>SN</i> <sub>27</sub>		3 6.6 161°07	0°2/ 6.4 18			<b>354812</b>	2005 <i>WQ</i> <sub>20</sub>		3 6.6 189°05	0°2/ 6.4 18		
2 1	11 34.99	+ 2 47.1	1.581	2.406	15.9	21.0	2 1	11 37.52	+ 3 25.8	1.898	2.710	14.1	22.1
2 11	11 30.16	+ 3 25.8	1.506	2.409	11.9	20.7	2 11	11 31.74	+ 3 57.9	1.813	2.709	10.7	21.8
2 21	11 22.82	+ 4 20.9	1.453	2.412	7.4	20.5	2 21	11 23.67	+ 4 43.1	1.751	2.708	6.6	21.6
3 2	11 13.72	+ 5 26.7	1.426	2.415	2.3	20.1	3 2	11 14.01	+ 5 36.9	1.718	2.706	2.1	21.3
3 12	11 4.02	+ 6 35.2	1.428	2.417	2.9	20.2	3 12	11 3.74	+ 6 32.8	1.714	2.702	2.6	21.3
3 22	10 54.94	+ 7 38.1	1.456	2.418	7.9	20.5	3 22	10 53.97	+ 7 24.2	1.739	2.698	7.1	21.6
4 1	10 47.61	+ 8 28.3	1.510	2.420	12.4	20.8	4 1	10 45.72	+ 8 5.5	1.791	2.693	11.2	21.8
4 11	10 42.79	+ 9 1.6	1.586	2.421	16.2	21.0	4 11	10 39.70	+ 8 33.1	1.866	2.687	14.7	22.0
<b>177624</b>	2004 <i>HB</i> <sub>73</sub>		3 6.6 203°50	2°0/ 4.0 18			<b>210501</b>	1998 <i>HG</i> <sub>50</sub>		3 6.6 330°84	3°0/ 4.4 18		
2 1	11 30.62	+10 54.1	2.867	3.692	9.5	21.6	2 1	11 30.75	+ 8 51.7	1.243	2.104	17.1	20.1
2 11	11 25.91	+11 34.6	2.782	3.688	7.0	21.4	2 11	11 27.72	+ 9 38.5	1.166	2.090	12.8	19.8
2 21	11 19.77	+12 19.4	2.724	3.684	4.3	21.2	2 21	11 21.71	+10 39.2	1.109	2.076	7.8	19.5
3 2	11 12.68	+13 4.6	2.695	3.679	2.1	21.0	3 2	11 13.47	+11 45.4	1.077	2.064	3.3	19.2
3 12	11 5.25	+13 45.6	2.696	3.674	3.2	21.1	3 12	11 4.33	+12 46.3	1.069	2.052	5.4	19.2
3 22	10 58.13	+14 18.8	2.728	3.669	5.9	21.3	3 22	10 55.79	+13 32.1	1.085	2.042	10.7	19.5
4 1	10 51.93	+14 41.2	2.787	3.663	8.6	21.4	4 1	10 49.29	+13 56.0	1.123	2.032	15.8	19.8
4 11	10 47.14	+14 51.7	2.871	3.657	11.0	21.6	4 11	10 45.76	+13 55.7	1.179	2.024	20.1	20.0
<b>221440</b>	2006 <i>AE</i> <sub>21</sub>		3 6.6 87°13	5°7/ 1.0 18			<b>137068</b>	1998 <i>WD</i> <sub>13</sub>		3 6.6 143°13	1°6/ 8.3 18		
2 1	11 34.94	+19 18.7	1.906	2.751	12.7	19.8	2 1	11 34.46	- 2 3.5	2.161	2.951	13.4	20.5
2 11	11 29.63	+20 30.7	1.857	2.768	9.6	19.6	2 11	11 29.10	- 1 43.1	2.083	2.963	10.3	20.3
2 21	11 22.21	+21 41.2	1.832	2.784	6.8	19.4	2 21	11 21.87	- 1 7.9	2.028	2.974	6.7	20.1
3 2	11 13.46	+22 41.8	1.835	2.800	5.7	19.4	3 2	11 13.38	- 0 20.7	2.002	2.984	3.1	19.9
3 12	11 4.41	+23 25.4	1.866	2.816	7.3	19.5	3 12	11 4.51	+ 0 33.6	2.005	2.994	2.2	19.8
3 22	10 56.10	+23 47.9	1.923	2.832	10.0	19.7	3 22	10 56.13	+ 1 29.3	2.038	3.003	5.7	20.1
4 1	10 49.40	+23 48.3	2.005	2.848	12.9	19.9	4 1	10 49.05	+ 2 20.7	2.098	3.011	9.3	20.3
4 11	10 44.89	+23 28.1	2.106	2.863	15.4	20.1	4 11	10 43.86	+ 3 3.4	2.184	3.019	12.4	20.5
<b>324168</b>	2005 <i>YD</i> <sub>278</sub>		3 6.6 193°91	1°8/ 4.7 17			<b>169114</b>	2001 <i>OK</i> <sub>47</sub>		3 6.6 204°05	0°9/ 7.7 18 R		
2 1	11 33.04	+ 8 13.9	2.225	3.050	11.9	21.7	2 1	11 31.34	+ 0 23.2	2.789	3.582	10.6	20.8
2 11	11 28.08	+ 9 0.7	2.143	3.049	8.8	21.5	2 11	11 26.50	+ 0 40.7	2.694	3.578	8.1	20.6
2 21	11 21.28	+ 9 55.7	2.086	3.047	5.3	21.3	2 21	11 20.18	+ 1 8.5	2.623	3.572	5.2	20.4
3 2	11 13.20	+10 53.6	2.057	3.044	2.1	21.0	3 2	11 12.85	+ 1 44.2	2.582	3.567	2.1	20.2
3 12	11 4.67	+11 48.3	2.058	3.041	3.4	21.1	3 12	11 5.13	+ 2 24.3	2.571	3.561	1.7	20.1
3 22	10 56.55	+12 34.4	2.089	3.037	6.9	21.3	3 22	10 57.70	+ 3 4.7	2.591	3.554	4.8	20.3
4 1	10 49.67	+13 7.8	2.146	3.033	10.3	21.5	4 1	10 51.18	+ 3 41.6	2.639	3.547	7.8	20.5
4 11	10 44.61	+13 26.4	2.227	3.029	13.3	21.7	4 11	10 46.10	+ 4 11.7	2.713	3.540	10.5	20.7
<b>365125</b>	2009 <i>DQ</i> <sub>7</sub>		3 6.6 72°68	0°9/ 5.9 18			<b>30429</b>	2000 <i>LR</i> <sub>11</sub>		3 6.6 187°92	0°0/ 6.5 18		
2 1	11 34.95	+ 4 22.5	1.433	2.269	16.6	21.2	2 1	11 28.94	+ 1 42.6	2.592	3.398	10.9	18.8
2 11	11 30.12	+ 5 8.0	1.378	2.287	12.4	20.9	2 11	11 24.81	+ 2 31.7	2.504	3.398	8.2	18.6
2 21	11 22.72	+ 6 8.3	1.344	2.306	7.4	20.7	2 21	11 19.18	+ 3 32.5	2.441	3.397	5.1	18.4
3 2	11 13.66	+ 7 16.4	1.336	2.325	2.3	20.4	3 2	11 12.53	+ 4 41.1	2.408	3.396	1.7	18.2
3 12	11 4.20	+ 8 23.2	1.356	2.344	3.4	20.5	3 12	11 5.52	+ 5 52.2	2.405	3.394	1.9	18.2
3 22	10 55.63	+ 9 20.2	1.402	2.362	8.3	20.9	3 22	10 58.82	+ 7 0.6	2.432	3.393	5.3	18.4
4 1	10 49.00	+10 1.5	1.472	2.381	12.7	21.2	4 1	10 53.10	+ 8 1.3	2.488	3.391	8.5	18.6
4 11	10 44.97	+10 24.3	1.564	2.399	16.4	21.5	4 11	10 48.84	+ 8 50.8	2.568	3.388	11.2	18.8
<b>8199</b>	Takagitakeo		3 6.6 249°07	6°6/28.5 18			<b>232826</b>	2004 <i>SD</i> <sub>50</sub>		3 6.6 196°34	1°7/ 5.0 17		
2 1	11 34.90	+21 52.8	2.013	2.856	12.2	18.1	2 1	11 33.94	+ 8 29.1	2.063	2.891	12.6	20.4
2 11	11 29.87	+23 16.3	1.935	2.842	9.5	17.9	2 11	11 28.88	+ 9 2.0	1.983	2.890	9.3	20.2
2 21	11 22.57	+24 38.9	1.883	2.827	7.3	17.8	2 21	11 21.82	+ 9 42.6	1.927	2.889	5.6	20.0
3 2	11 13.66	+25 51.5	1.858	2.813	6.7	17.7	3 2	11 13.40	+10 25.9	1.900	2.887	2.1	19.7
3 12	11 4.12	+26 45.9	1.861	2.797	8.4	17.8	3 12	11 4.51	+11 5.9	1.901	2.885	3.4	19.8
3 22	10 55.04	+27 16.7	1.890	2.782	11.1	17.9	3 22	10 56.09	+11 37.6	1.931	2.883	7.2	20.1
4 1	10 47.44	+27 21.9	1.943	2.766	14.1	18.1	4 1	10 49.02	+11 57.2	1.988	2.881	10.8	20.3
4 11	10 42.05	+27 3.0	2.015	2.749	16.7	18.2	4 11	10 43.93	+12 2.7	2.068	2.878	13.9	20.5
<b>165687</b>	2001 <i>OV</i> <sub>81</sub>		3 6.6 139°80	3°6/10.9 18			<b>90782</b>	1994 <i>GY</i> <sub>3</sub>		3 6.6 221°39	0°4/ 7.0 17		
2 1	11 30.84	- 8 55.8	2.581	3.335	12.4	20.1	2 1	11 31.86	+ 1 38.3	2.030	2.843	13.3	21.0
2 11	11 26.20	- 8 54.4	2.494	3.343	10.0	20.0	2 11	11 27.40	+ 2 9.3	1.943	2.839	10.1	20.8
2 21	11 20.01	- 8 36.8	2.431	3.350	7.3	19.8	2 21	11 20.96	+ 2 54.0	1.880	2.835	6.3	20.5
3 2	11 12.77	- 8 4.2	2.394	3.358	4.7	19.6	3 2	11 13.14	+ 3 48.8	1.844	2.831	2.2	20.2
3 12	11 5.19	- 7 19.3	2.387	3.365	3.6	19.6	3 12	11 4.80	+ 4 47.6	1.837	2.826	2.2	20.2
3 22	10 57.96	- 6 26.7	2.409	3.371	5.2	19.7	3 22	10 56.87	+ 5 44.4	1.858	2.822	6.4	20.5
4 1	10 51.75	- 5 31.3	2.460	3.378	7.9	19.9	4 1	10 50.22	+ 6 33.3	1.907	2.817	10.2	20.7
4 11	10 47.09	- 4 38.3	2.536	3.384	10.5	20.0	4 11	10 45.51	+ 7 10.1	1.979	2.812	13.6	20.9
<b>502381</b>	2015 <i>BS</i> <sub>243</sub>		3 6.6 235°42	1°9/ 8.5 17			<b>62686</b>	2000 <i>TD</i> <sub>20</sub>		3 6.6 89°03	5°3/ 1.3 18		
2 1	11 31.58	- 2 11.2	2.035	2.834	13.8	21.5	2 1	11 34.00	+17 35.7	1.869	2.715	12.9	18.0
2 11	11 27.17	- 1 58.2	1.947	2.831	10.7	21.3	2 11	11 29.00	+18 52.6	1.817	2.730	9.6	17.8
2 21	11 20.81	- 1 29.4	1.882	2.829	7.1	21.1	2 21	11 21.88	+20 9.9	1.789	2.744	6.6	17.7
3 2	11 13.07	- 0 47.2	1.844	2.826	3.3	20.8	3 2	11 13.39	+21 19.1	1.789	2.758	5.3	17.6
3 12	11 4.82	+ 0 3.5	1.834	2.823	2.4	20.7	3 12	11 4.57	+22 12.4	1.817	2.772	7.0	17.7
3 22	10 56.97	+ 0 57.1	1.853	2.820	6.0	21.0	3 22	10 56.45	+22 45.0	1.871	2.786	9.9	17.9
4 1	10 50.40	+ 1 47.4	1.899	2.817	9.8	21.2	4 1	10 49.91	+22 55.1	1.950	2.800	12.9	18.1
4 11	10 45.76	+ 2 29.4	1.969	2.814	13.1	21.4	4 11	10 45.56	+22 44.1	2.049	2.813	15.5	18.4
<b>312063</b>	2007 <i>SH</i> <sub>22</sub>		3 6.6 110°84	1°4/ 5.4 18			<b>253061</b>	2002 <i>TV</i> <sub>69</sub>		3 6.6 101°79	1°4/ 5.2 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>366841</b>	2005 <i>QN</i> <sub>71</sub>		3 6.6 153°37	1.5°/ 8.6	18		<b>459505</b>	2013 <i>EC</i> <sub>6</sub>		3 6.6 192°71	0°4/ 7.0	17	
2 1	11 31.70	- 4 29.7	2.581	3.356	11.9	21.9	2 1	11 34.39	+ 0 43.0	1.921	2.729	14.1	22.1
2 11	11 26.81	- 3 34.5	2.496	3.367	9.2	21.7	2 11	11 29.41	+ 1 27.3	1.834	2.728	10.7	21.9
2 21	11 20.37	- 2 23.3	2.436	3.377	6.1	21.6	2 21	11 22.27	+ 2 27.8	1.771	2.725	6.7	21.6
3 2	11 12.91	- 0 59.7	2.406	3.387	2.8	21.4	3 2	11 13.61	+ 3 40.2	1.735	2.723	2.3	21.3
3 12	11 5.13	+ 0 31.0	2.406	3.395	1.9	21.3	3 12	11 4.38	+ 4 57.5	1.729	2.719	2.3	21.3
3 22	10 57.72	+ 2 2.4	2.438	3.403	5.0	21.5	3 22	10 55.59	+ 6 12.0	1.752	2.714	6.8	21.6
4 1	10 51.36	+ 3 28.6	2.500	3.410	8.1	21.7	4 1	10 48.20	+ 7 17.0	1.802	2.709	10.9	21.8
4 11	10 46.54	+ 4 44.5	2.589	3.416	10.9	21.9	4 11	10 42.93	+ 8 7.6	1.875	2.703	14.4	22.0
<b>395147</b>	2010 <i>CA</i> <sub>33</sub>		3 6.6 127°09	2°9/ 4.2	18		<b>273005</b>	2006 <i>DU</i> <sub>74</sub>		3 6.6 180°15	0°3/ 6.3	17	
2 1	11 36.89	+ 9 1.3	1.552	2.391	15.4	21.5	2 1	11 33.96	+ 4 48.3	2.134	2.950	12.6	20.9
2 11	11 31.53	+ 10 8.3	1.490	2.403	11.4	21.3	2 11	11 28.83	+ 5 6.7	2.051	2.951	9.5	20.7
2 21	11 23.62	+ 11 25.7	1.452	2.415	6.9	21.0	2 21	11 21.79	+ 5 34.8	1.993	2.951	5.8	20.5
3 2	11 14.00	+ 12 44.8	1.441	2.427	3.1	20.8	3 2	11 13.43	+ 6 8.8	1.963	2.951	1.8	20.2
3 12	11 3.91	+ 13 55.9	1.458	2.438	5.0	21.0	3 12	11 4.61	+ 6 43.7	1.962	2.951	2.3	20.3
3 22	10 54.60	+ 14 51.1	1.501	2.448	9.3	21.2	3 22	10 56.25	+ 7 14.7	1.991	2.951	6.3	20.5
4 1	10 47.19	+ 15 25.9	1.570	2.458	13.4	21.5	4 1	10 49.18	+ 7 37.7	2.046	2.950	10.0	20.7
4 11	10 42.36	+ 15 39.0	1.659	2.467	16.8	21.8	4 11	10 44.02	+ 7 49.9	2.126	2.949	13.1	21.0
<b>368704</b>	Roelgathier		3 6.6 225°72	3°1/ 9.2	17		<b>265713</b>	2005 <i>UD</i> <sub>267</sub>		3 6.6 86°82	2°8/ 4.0	18	
2 1	11 37.02	- 4 3.9	2.162	2.939	13.8	21.8	2 1	11 33.45	+ 10 21.8	1.810	2.649	13.5	20.9
2 11	11 31.24	- 4 24.3	2.062	2.930	10.9	21.6	2 11	11 28.68	+ 11 14.1	1.745	2.658	10.0	20.7
2 21	11 23.36	- 4 30.6	1.985	2.920	7.6	21.4	2 21	11 21.76	+ 12 13.7	1.704	2.667	6.1	20.5
3 2	11 13.95	- 4 23.2	1.935	2.910	4.3	21.1	3 2	11 13.42	+ 13 13.6	1.691	2.676	2.9	20.3
3 12	11 3.88	- 4 4.7	1.915	2.899	3.3	21.0	3 12	11 4.66	+ 14 6.4	1.706	2.685	4.5	20.4
3 22	10 54.13	- 3 39.1	1.924	2.888	6.2	21.2	3 22	10 56.54	+ 14 46.1	1.748	2.693	8.3	20.6
4 1	10 45.65	- 3 11.1	1.961	2.876	9.7	21.4	4 1	10 49.96	+ 15 9.0	1.815	2.702	11.9	20.9
4 11	10 39.15	- 2 45.9	2.023	2.863	13.0	21.6	4 11	10 45.56	+ 15 14.0	1.905	2.711	15.1	21.1
<b>384760</b>	2012 <i>FV</i> <sub>44</sub>		3 6.6 194°26	14°1/ 20.2	18		<b>81975</b>	2000 <i>QH</i> <sub>78</sub>		3 6.6 139°74	0°0/ 6.4	17	
2 1	11 37.16	+ 31 16.4	1.259	2.116	17.1	20.4	2 1	11 28.57	+ 1 52.5	2.559	3.367	11.0	20.0
2 11	11 33.01	+ 34 45.7	1.221	2.116	14.9	20.3	2 11	11 24.54	+ 2 43.8	2.478	3.372	8.2	19.8
2 21	11 25.19	+ 38 1.4	1.207	2.115	14.1	20.2	2 21	11 19.02	+ 3 46.7	2.422	3.378	5.1	19.6
3 2	11 14.65	+ 40 42.4	1.217	2.113	15.2	20.3	3 2	11 12.52	+ 4 56.9	2.395	3.382	1.6	19.4
3 12	11 3.11	+ 42 33.3	1.248	2.111	17.5	20.4	3 12	11 5.69	+ 6 9.2	2.398	3.387	1.9	19.4
3 22	10 52.55	+ 43 29.0	1.299	2.108	20.2	20.6	3 22	10 59.21	+ 7 18.2	2.432	3.392	5.3	19.6
4 1	10 44.66	+ 43 32.8	1.366	2.106	22.8	20.8	4 1	10 53.71	+ 8 18.9	2.493	3.396	8.4	19.8
4 11	10 40.45	+ 42 53.8	1.443	2.102	25.0	21.0	4 11	10 49.69	+ 9 8.0	2.580	3.400	11.1	20.0
<b>423262</b>	2004 <i>TJ</i> <sub>325</sub>		3 6.6 158°41	0°6/ 7.3	16		<b>44899</b>	1999 <i>VD</i> <sub>15</sub>		3 6.6 3°95	2°2/ 8.2	18	
2 1	11 32.10	+ 0 43.5	2.466	3.264	11.7	22.3	2 1	11 26.95	- 1 20.5	1.061	1.911	20.1	17.9
2 11	11 27.18	+ 1 16.6	2.383	3.271	8.8	22.2	2 11	11 25.05	- 1 14.7	0.997	1.910	15.6	17.7
2 21	11 20.64	+ 2 1.6	2.326	3.278	5.6	22.0	2 21	11 20.12	- 0 43.2	0.951	1.910	10.3	17.4
3 2	11 13.02	+ 2 55.0	2.297	3.284	2.0	21.7	3 2	11 13.00	+ 0 10.4	0.926	1.912	4.5	17.0
3 12	11 5.04	+ 3 52.1	2.299	3.289	1.8	21.7	3 12	11 5.12	+ 1 17.2	0.924	1.915	3.3	17.0
3 22	10 57.45	+ 4 47.8	2.331	3.294	5.3	22.0	3 22	10 58.03	+ 2 25.9	0.945	1.920	8.8	17.3
4 1	10 50.96	+ 5 37.3	2.392	3.298	8.6	22.2	4 1	10 53.11	+ 3 25.6	0.988	1.927	14.3	17.6
4 11	10 46.08	+ 6 17.1	2.477	3.302	11.4	22.4	4 11	10 51.23	+ 4 8.2	1.050	1.935	18.9	17.9
<b>138581</b>	2000 <i>QQ</i> <sub>133</sub>		3 6.6 170°73	0°4/ 6.1	18		<b>416666</b>	2004 <i>TX</i> <sub>350</sub>		3 6.6 105°86	2°5/ 4.2	18	
2 1	11 30.54	+ 4 52.0	3.103	3.909	9.3	21.3	2 1	11 33.46	+ 10 26.2	2.028	2.862	12.5	21.1
2 11	11 25.73	+ 5 21.7	3.018	3.913	6.9	21.2	2 11	11 28.47	+ 11 12.4	1.961	2.872	9.2	20.9
2 21	11 19.63	+ 5 58.3	2.959	3.916	4.2	21.0	2 21	11 21.55	+ 12 4.8	1.920	2.881	5.6	20.7
3 2	11 12.68	+ 6 39.0	2.931	3.919	1.3	20.8	3 2	11 13.34	+ 12 57.4	1.906	2.891	2.7	20.5
3 12	11 5.45	+ 7 20.0	2.933	3.921	1.8	20.8	3 12	11 4.78	+ 13 43.8	1.921	2.901	4.1	20.6
3 22	10 58.52	+ 7 57.7	2.967	3.923	4.7	21.0	3 22	10 56.78	+ 14 18.8	1.965	2.910	7.6	20.8
4 1	10 52.43	+ 8 29.1	3.029	3.924	7.4	21.2	4 1	10 50.18	+ 14 39.2	2.035	2.919	11.0	21.1
4 11	10 47.62	+ 8 52.0	3.117	3.925	9.7	21.4	4 11	10 45.56	+ 14 43.8	2.127	2.928	13.9	21.3
<b>406920</b>	2009 <i>FJ</i> <sub>31</sub>		3 6.6 341°59	3°8/ 4.2	18		<b>430345</b>	2013 <i>YG</i> <sub>78</sub>		3 6.6 57°55	4°3/ 10.9	17	
2 1	11 34.50	+ 11 56.1	1.270	2.129	16.9	20.4	2 1	11 31.39	- 8 47.7	2.182	2.947	14.1	20.8
2 11	11 30.44	+ 12 28.6	1.199	2.121	12.6	20.1	2 11	11 26.91	- 9 3.0	2.100	2.954	11.4	20.7
2 21	11 23.32	+ 13 8.7	1.149	2.114	7.9	19.8	2 21	11 20.60	- 9 0.5	2.040	2.961	8.4	20.5
3 2	11 14.00	+ 13 48.3	1.123	2.108	4.0	19.5	3 2	11 13.06	- 8 40.6	2.006	2.969	5.5	20.3
3 12	11 3.89	+ 14 17.9	1.122	2.103	5.9	19.6	3 12	11 5.08	- 8 6.2	1.999	2.976	4.3	20.3
3 22	10 54.54	+ 14 30.4	1.145	2.098	10.8	19.9	3 22	10 57.53	- 7 21.9	2.021	2.984	6.0	20.4
4 1	10 47.33	+ 14 22.1	1.191	2.094	15.5	20.1	4 1	10 51.19	- 6 33.2	2.070	2.991	8.9	20.6
4 11	10 43.16	+ 13 52.7	1.255	2.091	19.6	20.4	4 11	10 46.67	- 5 46.2	2.144	2.999	11.8	20.8
<b>486710</b>	2014 <i>AH</i> <sub>49</sub>		3 6.6 3°52	13°9/ 11.4	18		<b>502584</b>	2015 <i>CX</i> <sub>3</sub>		3 6.6 57°72	1°5/ 5.1	18	
2 1	11 46.14	- 14 4.0	1.110	1.879	24.6	20.6	2 1	11 30.03	+ 5 35.3	1.854	2.687	13.5	21.0
2 11	11 40.13	- 16 59.0	1.038	1.878	21.4	20.4	2 11	11 26.12	+ 6 38.1	1.784	2.694	10.0	20.8
2 21	11 29.93	- 19 32.0	0.984	1.877	17.9	20.2	2 21	11 20.21	+ 7 53.4	1.738	2.701	6.0	20.5
3 2	11 16.32	- 21 30.2	0.950	1.878	15.0	20.0	3 2	11 12.94	+ 9 14.5	1.720	2.708	2.0	20.3
3 12	11 1.06	- 22 44.6	0.938	1.879	13.9	19.9	3 12	11 5.24	+ 10 33.4	1.730	2.715	3.4	20.4
3 22	10 46.38	- 23 13.5	0.949	1.880	15.2	20.0	3 22	10 58.08	+ 11 42.6	1.768	2.722	7.5	20.7
4 1	10 34.49	- 23 4.8	0.980	1.883	18.2	20.2	4 1	10 52.32	+ 12 36.6	1.832	2.730	11.3	20.9
4 11	10 26.78	- 22 33.0	1.029	1.886	21.5	20.4	4 11	10 48.57	+ 13 12.4	1.918	2.737	14.5	21.1
<b>337770</b>	2001 <i>UA</i> <sub>148</sub>		3 6.6 109°18	1°2/ 5.3	17		<b>306187</b>	2011					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>332334</b>	2007 <i>BY</i> <sub>41</sub>		3 6.6	5°30	0°0/ 6.4	18	<b>222681</b>	2001 <i>YO</i> <sub>84</sub>		3 6.6	72°22	5°7/29.9	18
2 1	11 31.10	+ 3 45.1	1.379	2.221	16.8	20.6	2 1	11 32.79	+17 24.3	1.744	2.596	13.4	20.0
2 11	11 27.56	+ 4 2.2	1.309	2.221	12.6	20.4	2 11	11 28.31	+18 53.1	1.691	2.606	10.0	19.8
2 21	11 21.40	+ 4 34.9	1.260	2.222	7.8	20.1	2 21	11 21.59	+20 23.3	1.661	2.617	7.0	19.6
3 2	11 13.38	+ 5 18.1	1.235	2.224	2.5	19.8	3 2	11 13.40	+21 45.1	1.659	2.628	5.8	19.6
3 12	11 4.73	+ 6 4.2	1.236	2.226	3.0	19.8	3 12	11 4.80	+22 49.8	1.684	2.639	7.5	19.7
3 22	10 56.77	+ 6 45.3	1.263	2.230	8.2	20.1	3 22	10 56.90	+23 31.5	1.736	2.650	10.6	19.9
4 1	10 50.67	+ 7 15.0	1.313	2.234	13.0	20.4	4 1	10 50.64	+23 48.2	1.810	2.660	13.7	20.1
4 11	10 47.19	+ 7 29.2	1.384	2.240	17.0	20.7	4 11	10 46.65	+23 41.1	1.905	2.671	16.4	20.3
<b>422497</b>	2014 <i>TJ</i>		3 6.6	119°48	2°2/ 4.2	18	<b>55706</b>	2241 <i>T</i> <sub>-3</sub>		3 6.6	103°43	0°8/ 7.4	18
2 1	11 35.06	+ 9 19.0	2.196	3.020	12.0	21.4	2 1	11 34.34	+ 0 56.2	1.805	2.618	14.7	20.0
2 11	11 29.45	+10 19.7	2.136	3.042	8.8	21.3	2 11	11 29.35	+ 1 17.0	1.734	2.629	11.2	19.8
2 21	11 22.04	+11 27.0	2.103	3.063	5.3	21.1	2 21	11 22.20	+ 1 52.6	1.686	2.640	7.1	19.6
3 2	11 13.48	+12 34.8	2.098	3.083	2.4	20.9	3 2	11 13.60	+ 2 39.0	1.665	2.651	2.6	19.3
3 12	11 4.66	+13 36.4	2.124	3.103	3.8	21.0	3 12	11 4.57	+ 3 30.2	1.671	2.662	2.3	19.3
3 22	10 56.42	+14 26.6	2.179	3.121	7.1	21.3	3 22	10 56.14	+ 4 19.7	1.707	2.672	6.6	19.6
4 1	10 49.53	+15 2.0	2.261	3.139	10.3	21.5	4 1	10 49.25	+ 5 1.7	1.768	2.682	10.7	19.9
4 11	10 44.52	+15 21.3	2.366	3.156	13.0	21.7	4 11	10 44.55	+ 5 32.0	1.853	2.692	14.1	20.1
<b>199761</b>	2006 <i>JT</i> <sub>50</sub>		3 6.6	158°67	1°4/ 8.1	17	<b>140647</b>	2001 <i>UM</i> <sub>29</sub>		3 6.6	237°10	0°9/ 5.5	18
2 1	11 30.51	- 1 33.7	2.148	2.948	13.1	20.9	2 1	11 29.28	+ 5 6.0	2.473	3.292	11.0	20.1
2 11	11 26.28	- 1 7.6	2.063	2.949	10.1	20.7	2 11	11 25.20	+ 5 57.8	2.382	3.284	8.2	19.9
2 21	11 20.24	- 0 26.3	2.002	2.951	6.6	20.5	2 21	11 19.53	+ 6 59.9	2.316	3.276	4.9	19.7
3 2	11 12.95	+ 0 27.0	1.968	2.952	2.9	20.2	3 2	11 12.74	+ 8 7.6	2.280	3.268	1.6	19.5
3 12	11 5.22	+ 1 27.2	1.963	2.953	2.1	20.2	3 12	11 5.52	+ 9 15.5	2.273	3.259	2.5	19.5
3 22	10 57.90	+ 2 28.5	1.987	2.953	5.7	20.4	3 22	10 58.61	+10 17.9	2.296	3.251	6.0	19.7
4 1	10 51.77	+ 3 24.9	2.038	2.954	9.3	20.6	4 1	10 52.71	+11 10.3	2.347	3.242	9.2	19.9
4 11	10 47.44	+ 4 11.6	2.114	2.955	12.5	20.8	4 11	10 48.36	+11 49.4	2.422	3.233	12.1	20.1
<b>150531</b>	2000 <i>SR</i> <sub>50</sub>		3 6.6	1°54	2°4/ 8.4	18	<b>423723</b>	2006 <i>BM</i> <sub>105</sub>		3 6.7	93°04	0°4/ 7.0	18
2 1	11 32.32	- 1 18.0	1.528	2.347	16.6	19.1	2 1	11 33.88	+ 2 26.4	1.938	2.752	13.8	22.0
2 11	11 28.31	- 1 27.2	1.450	2.345	12.9	18.8	2 11	11 28.89	+ 2 42.6	1.865	2.762	10.4	21.8
2 21	11 21.80	- 1 18.7	1.394	2.345	8.6	18.6	2 21	11 21.87	+ 3 11.1	1.816	2.771	6.5	21.6
3 2	11 13.51	- 0 54.5	1.362	2.345	4.1	18.3	3 2	11 13.50	+ 3 48.2	1.793	2.781	2.3	21.3
3 12	11 4.58	- 0 19.7	1.357	2.346	3.0	18.2	3 12	11 4.71	+ 4 28.5	1.800	2.790	2.2	21.4
3 22	10 56.22	+ 0 19.1	1.377	2.347	7.3	18.5	3 22	10 56.49	+ 5 6.4	1.835	2.799	6.4	21.6
4 1	10 49.57	+ 0 55.1	1.423	2.349	11.8	18.7	4 1	10 49.69	+ 5 37.3	1.897	2.808	10.2	21.9
4 11	10 45.41	+ 1 22.4	1.490	2.352	15.7	19.0	4 11	10 44.94	+ 5 57.5	1.982	2.817	13.5	22.1
<b>505559</b>	2014 <i>AD</i> <sub>36</sub>		3 6.6	111°40	4°2/11.5	17	<b>141109</b>	2001 <i>XZ</i> <sub>59</sub>		3 6.7	41°39	0°4/ 6.2	18
2 1	11 31.36	-10 24.8	2.356	3.106	13.5	21.6	2 1	11 30.52	+ 4 9.7	1.871	2.699	13.7	19.2
2 11	11 26.74	-10 26.7	2.274	3.118	11.0	21.4	2 11	11 26.35	+ 4 44.4	1.814	2.719	10.1	19.0
2 21	11 20.44	-10 10.3	2.215	3.130	8.2	21.3	2 21	11 20.26	+ 5 30.6	1.779	2.740	6.1	18.8
3 2	11 13.00	- 9 36.3	2.182	3.141	5.5	21.1	3 2	11 12.96	+ 6 23.1	1.772	2.761	1.9	18.6
3 12	11 5.20	- 8 47.8	2.178	3.153	4.2	21.1	3 12	11 5.37	+ 7 15.5	1.793	2.782	2.5	18.7
3 22	10 57.81	- 7 49.8	2.202	3.163	5.7	21.2	3 22	10 58.40	+ 8 2.0	1.842	2.804	6.6	19.0
4 1	10 51.57	- 6 48.0	2.255	3.174	8.4	21.4	4 1	10 52.85	+ 8 37.8	1.917	2.826	10.3	19.2
4 11	10 47.02	- 5 48.5	2.332	3.185	11.1	21.5	4 11	10 49.27	+ 9 0.1	2.015	2.848	13.4	19.5
<b>380575</b>	2004 <i>RT</i> <sub>162</sub>		3 6.6	226°58	5°1/12.0	17	<b>374156</b>	2004 <i>TL</i> <sub>327</sub>		3 6.7	223°79	5°1/12.4	17
2 1	11 34.04	-12 43.4	2.527	3.255	13.3	21.0	2 1	11 31.66	-13 16.0	2.399	3.132	13.8	21.5
2 11	11 28.85	-13 3.6	2.418	3.242	11.1	20.9	2 11	11 27.14	-13 17.9	2.294	3.123	11.5	21.3
2 21	11 21.84	-13 6.1	2.330	3.229	8.6	20.7	2 21	11 20.81	-12 59.5	2.211	3.113	8.9	21.1
3 2	11 13.50	-12 50.1	2.269	3.216	6.3	20.5	3 2	11 13.19	-12 20.7	2.153	3.102	6.3	20.9
3 12	11 4.57	-12 17.2	2.237	3.201	5.1	20.4	3 12	11 5.03	-11 23.7	2.124	3.091	5.1	20.8
3 22	10 55.85	-11 30.7	2.234	3.186	6.3	20.4	3 22	10 57.13	-10 13.2	2.123	3.080	6.2	20.9
4 1	10 48.17	-10 35.8	2.259	3.171	8.8	20.6	4 1	10 50.30	- 8 55.7	2.150	3.068	8.8	21.0
4 11	10 42.16	- 9 38.6	2.309	3.154	11.4	20.7	4 11	10 45.17	- 7 38.0	2.203	3.055	11.6	21.2
<b>248047</b>	2004 <i>HS</i> <sub>63</sub>		3 6.6	312°54	4°8/29.6	17	<b>161184</b>	2002 <i>TL</i> <sub>126</sub>		3 6.7	96°05	2°8/ 3.6	18
2 1	11 27.68	+14 55.6	2.027	2.878	11.8	19.9	2 1	11 32.34	+11 49.2	2.201	3.036	11.6	19.6
2 11	11 24.46	+16 38.2	1.944	2.861	8.8	19.7	2 11	11 27.51	+12 40.9	2.138	3.049	8.5	19.5
2 21	11 19.28	+18 27.7	1.886	2.845	6.0	19.5	2 21	11 20.91	+13 37.2	2.100	3.061	5.3	19.3
3 2	11 12.69	+20 15.3	1.858	2.829	4.8	19.4	3 2	11 13.18	+14 32.2	2.091	3.074	2.9	19.1
3 12	11 5.52	+21 51.5	1.857	2.814	6.7	19.5	3 12	11 5.13	+15 19.9	2.111	3.086	4.3	19.3
3 22	10 58.68	+23 8.9	1.884	2.799	9.9	19.7	3 22	10 57.62	+15 55.6	2.160	3.099	7.4	19.5
4 1	10 53.08	+24 2.7	1.935	2.784	13.1	19.8	4 1	10 51.38	+16 16.5	2.235	3.111	10.5	19.7
4 11	10 49.38	+24 31.8	2.007	2.769	15.9	20.0	4 11	10 46.96	+16 21.7	2.332	3.123	13.1	19.9
<b>138012</b>	2000 <i>CC</i> <sub>101</sub>		3 6.6	273°86	1°4/ 5.4	18	<b>133117</b>	2003 <i>OB</i> <sub>27</sub>		3 6.7	152°17	2°3/ 8.8	18
2 1	11 32.68	+ 6 0.9	1.683	2.518	14.6	19.9	2 1	11 34.93	- 3 41.3	1.888	2.679	15.0	20.7
2 11	11 28.46	+ 6 46.1	1.599	2.509	10.9	19.6	2 11	11 29.79	- 3 23.7	1.808	2.686	11.7	20.4
2 21	11 21.86	+ 7 44.6	1.537	2.500	6.6	19.3	2 21	11 22.50	- 2 47.7	1.750	2.693	7.8	20.2
3 2	11 13.54	+ 8 50.4	1.503	2.491	2.2	19.0	3 2	11 13.73	- 1 56.0	1.719	2.700	3.9	20.0
3 12	11 4.54	+ 9 55.4	1.495	2.482	3.6	19.3	3 12	11 4.46	- 0 54.2	1.717	2.706	2.7	19.9
3 22	10 56.02	+10 51.8	1.516	2.473	8.2	19.3	3 22	10 55.72	+ 0 11.0	1.744	2.711	6.4	20.2
4 1	10 49.06	+11 33.5	1.561	2.464	12.6	19.6	4 1	10 48.45	+ 1 12.6	1.798	2.715	10.3	20.4
4 11	10 44.43	+11 57.1	1.628	2.454	16.3	19.8	4 11	10 43.32	+ 2 4.7	1.875	2.719	13.7	20.6
<b>437097</b>	2012 <i>UR</i> <sub>91</sub>		3 6.6	39°11	2°8/ 4.1	18	<b>510335</b>	2011 <i>SP</i> <sub>73</sub>		3 6.7	197°06	1°2/ 8.	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>316489</b>	2010 VB <sub>82</sub>		3 6.7 351°14	6°8/12.4	18		<b>258100</b>	2001 QA <sub>164</sub>		3 6.7 167°68	4°3/1.9	18	
2 1	11 31.20	-12 33.7	1.603	2.371	18.2	19.6	2 1	11 34.77	+16 0.9	2.185	3.022	11.6	20.8
2 11	11 27.52	-13 4.7	1.519	2.368	15.2	19.4	2 11	11 29.45	+17 8.6	2.117	3.026	8.7	20.6
2 21	11 21.38	-13 9.7	1.453	2.366	11.8	19.2	2 21	11 22.20	+18 18.6	2.074	3.029	5.8	20.5
3 2	11 13.44	-12 46.9	1.411	2.364	8.5	19.0	3 2	11 13.64	+19 23.6	2.059	3.033	4.3	20.4
3 12	11 4.77	-11 58.9	1.393	2.362	6.8	18.9	3 12	11 4.69	+20 17.0	2.075	3.035	5.8	20.5
3 22	10 56.58	-10 51.7	1.400	2.361	8.3	19.0	3 22	10 56.24	+20 53.7	2.118	3.037	8.7	20.6
4 1	10 50.00	-9 34.4	1.433	2.361	11.6	19.2	4 1	10 49.14	+21 11.5	2.187	3.039	11.6	20.8
4 11	10 45.86	-8 17.2	1.488	2.361	15.1	19.4	4 11	10 43.98	+21 10.4	2.277	3.040	14.2	21.0
<b>519581</b>	2012 SM <sub>71</sub>		3 6.7 16°67	0°3/6.4	17		<b>246467</b>	2007 VG <sub>310</sub>		3 6.7 58°28	3°8/2.5	17	
2 1	11 34.28	+5 29.6	2.125	2.943	12.6	21.2	2 1	11 30.91	+14 16.6	2.119	2.962	11.7	20.5
2 11	11 29.10	+5 35.4	2.044	2.944	9.5	21.0	2 11	11 26.57	+15 18.9	2.057	2.970	8.6	20.3
2 21	11 21.99	+5 49.7	1.986	2.944	5.8	20.8	2 21	11 20.41	+16 24.4	2.019	2.979	5.6	20.1
3 2	11 13.58	+6 9.0	1.957	2.945	1.8	20.5	3 2	11 13.06	+17 26.4	2.010	2.988	3.8	20.0
3 12	11 4.71	+6 29.0	1.956	2.945	2.3	20.6	3 12	11 5.36	+18 18.4	2.029	2.996	5.3	20.2
3 22	10 56.31	+6 45.5	1.985	2.946	6.3	20.8	3 22	10 58.19	+18 55.5	2.076	3.005	8.2	20.3
4 1	10 49.21	+6 54.9	2.041	2.947	9.9	21.0	4 1	10 52.31	+19 15.0	2.148	3.014	11.2	20.6
4 11	10 44.03	+6 54.9	2.121	2.947	13.0	21.2	4 11	10 48.29	+19 16.6	2.242	3.024	13.8	20.7
<b>369329</b>	2009 SH <sub>253</sub>		3 6.7 150°17	1°8/5.0	18		<b>66490</b>	1999 RS <sub>49</sub>		3 6.7 90°65	1°8/8.1	18	
2 1	11 34.64	+8 38.6	1.918	2.748	13.3	21.1	2 1	11 42.00	-0 16.6	1.775	2.570	15.6	19.5
2 11	11 29.55	+9 11.2	1.842	2.750	9.8	20.9	2 11	11 34.87	-0 24.5	1.718	2.601	11.9	19.3
2 21	11 22.34	+9 51.7	1.791	2.753	6.0	20.6	2 21	11 25.47	-0 17.8	1.684	2.632	7.7	19.1
3 2	11 13.70	+10 34.7	1.767	2.755	2.3	20.4	3 2	11 14.67	+0 0.4	1.678	2.661	3.4	18.9
3 12	11 4.58	+11 13.9	1.773	2.757	3.6	20.5	3 12	11 3.61	+0 25.7	1.702	2.690	2.6	18.9
3 22	10 56.01	+11 44.0	1.806	2.758	7.5	20.7	3 22	10 53.43	+0 52.6	1.754	2.719	6.5	19.2
4 1	10 48.90	+12 1.1	1.865	2.760	11.3	21.0	4 1	10 45.09	+1 16.2	1.834	2.746	10.4	19.5
4 11	10 43.91	+12 3.6	1.947	2.761	14.5	21.2	4 11	10 39.16	+1 32.6	1.938	2.773	13.7	19.7
<b>208360</b>	2001 RB <sub>64</sub>		3 6.7 234°56	2°0/8.8	18		<b>213878</b>	2003 SB <sub>249</sub>		3 6.7 81°02	1°0/5.8	18	
2 1	11 32.76	-2 28.5	2.552	3.335	11.8	21.3	2 1	11 36.53	+5 4.6	1.570	2.400	15.7	20.6
2 11	11 27.78	-2 31.5	2.452	3.326	9.2	21.1	2 11	11 31.11	+5 46.4	1.517	2.424	11.7	20.4
2 21	11 21.13	-2 22.5	2.376	3.316	6.2	20.9	2 21	11 23.31	+6 40.7	1.486	2.447	7.0	20.2
3 2	11 13.30	-2 2.9	2.327	3.306	3.2	20.6	3 2	11 13.99	+7 41.1	1.482	2.471	2.2	20.0
3 12	11 5.00	-1 35.6	2.309	3.296	2.3	20.6	3 12	11 4.36	+8 39.3	1.506	2.494	3.2	20.1
3 22	10 56.96	-1 4.4	2.321	3.286	5.1	20.7	3 22	10 55.60	+9 28.3	1.558	2.516	7.8	20.4
4 1	10 49.94	-0 33.5	2.361	3.275	8.3	20.9	4 1	10 48.68	+10 2.9	1.634	2.539	12.0	20.7
4 11	10 44.49	-0 6.8	2.426	3.264	11.2	21.1	4 11	10 44.22	+10 21.0	1.733	2.561	15.4	21.0
<b>192754</b>	1999 TU <sub>262</sub>		3 6.7 201°00	1°9/8.7	17		<b>62046</b>	2000 RA <sub>66</sub>		3 6.7 200°78	0°3/6.3	18	
2 1	11 31.28	-3 14.4	2.238	3.028	13.0	21.1	2 1	11 34.23	+2 29.0	2.074	2.884	13.2	20.1
2 11	11 26.85	-2 52.8	2.147	3.026	10.1	20.9	2 11	11 29.21	+3 24.0	1.983	2.880	9.9	19.8
2 21	11 20.63	-2 15.4	2.080	3.023	6.8	20.7	2 21	11 22.17	+4 33.7	1.918	2.875	6.1	19.6
3 2	11 13.15	-1 24.7	2.040	3.020	3.3	20.5	3 2	11 13.68	+5 52.9	1.880	2.869	1.9	19.3
3 12	11 5.20	-0 25.4	2.029	3.017	2.3	20.4	3 12	11 4.63	+7 14.7	1.873	2.862	2.5	19.3
3 22	10 57.61	+0 37.0	2.047	3.014	5.6	20.6	3 22	10 55.96	+8 31.7	1.896	2.854	6.7	19.6
4 1	10 51.17	+1 36.4	2.093	3.010	9.1	20.8	4 1	10 48.58	+9 37.7	1.946	2.845	10.6	19.8
4 11	10 46.48	+2 27.9	2.164	3.006	12.2	21.0	4 11	10 43.18	+10 28.2	2.020	2.836	13.9	20.0
<b>191969</b>	2005 VD <sub>61</sub>		3 6.7 115°19	0°0/6.5	18		<b>165445</b>	2000 YM <sub>106</sub>		3 6.7 33°69	3°9/9.4	18	
2 1	11 35.11	+1 10.6	1.524	2.346	16.5	21.4	2 1	11 33.98	-4 10.4	1.300	2.117	19.1	19.2
2 11	11 30.27	+2 3.1	1.458	2.360	12.4	21.1	2 11	11 29.85	-4 29.2	1.235	2.125	15.1	18.9
2 21	11 22.93	+3 14.4	1.415	2.373	7.7	20.9	2 21	11 22.88	-4 24.9	1.189	2.135	10.4	18.7
3 2	11 13.91	+4 37.9	1.398	2.385	2.5	20.6	3 2	11 13.94	-3 58.9	1.166	2.145	5.7	18.4
3 12	11 4.38	+6 4.5	1.408	2.398	2.8	20.6	3 12	11 4.37	-3 16.7	1.168	2.155	4.2	18.4
3 22	10 55.60	+7 24.5	1.446	2.409	7.8	21.0	3 22	10 55.59	-2 26.4	1.196	2.167	8.0	18.6
4 1	10 48.63	+8 30.2	1.510	2.421	12.3	21.3	4 1	10 48.86	-1 36.7	1.247	2.178	12.6	18.9
4 11	10 44.19	+9 17.1	1.595	2.431	16.1	21.5	4 11	10 44.97	-0 55.5	1.319	2.190	16.7	19.2
<b>182392</b>	2001 QB <sub>269</sub>		3 6.7 158°27	2°8/3.5	18		<b>66318</b>	1999 JC <sub>51</sub>		3 6.7 212°59	0°7/7.3	18	
2 1	11 35.11	+12 31.5	2.520	3.345	10.7	21.0	2 1	11 33.89	+0 10.4	1.824	2.634	14.7	19.2
2 11	11 29.40	+13 24.0	2.449	3.354	7.9	20.8	2 11	11 29.22	+0 46.5	1.735	2.629	11.2	19.0
2 21	11 22.03	+14 20.3	2.404	3.362	4.9	20.7	2 21	11 22.29	+1 39.9	1.669	2.623	7.1	18.7
3 2	11 13.56	+15 15.0	2.389	3.370	2.8	20.5	3 2	11 13.74	+2 46.4	1.630	2.617	2.6	18.4
3 12	11 4.77	+16 2.6	2.405	3.377	4.1	20.6	3 12	11 4.56	+3 59.3	1.620	2.610	2.3	18.4
3 22	10 56.43	+16 38.8	2.450	3.383	7.0	20.8	3 22	10 55.80	+5 10.9	1.639	2.603	6.9	18.7
4 1	10 49.26	+17 1.1	2.523	3.388	9.8	21.0	4 1	10 48.50	+6 13.8	1.683	2.595	11.2	18.9
4 11	10 43.78	+17 8.6	2.619	3.393	12.3	21.2	4 11	10 43.39	+7 2.9	1.751	2.587	14.9	19.1
<b>419070</b>	2009 SR <sub>55</sub>		3 6.7 36°74	2°0/8.2	18		<b>291672</b>	2006 HJ <sub>79</sub>		3 6.7 122°06	4°3/3.2	18	
2 1	11 34.43	-0 17.7	1.614	2.430	16.1	20.9	2 1	11 38.01	+14 8.6	1.660	2.502	14.4	20.4
2 11	11 29.68	-0 27.4	1.544	2.438	12.4	20.7	2 11	11 32.30	+15 3.1	1.599	2.512	10.7	20.2
2 21	11 22.55	-0 21.3	1.495	2.446	8.1	20.5	2 21	11 24.11	+16 1.5	1.562	2.522	6.9	20.0
3 2	11 13.79	-0 2.0	1.472	2.456	3.6	20.2	3 2	11 14.29	+16 55.4	1.552	2.531	4.3	19.9
3 12	11 4.52	+0 25.8	1.476	2.465	2.7	20.2	3 12	11 4.03	+17 36.9	1.569	2.540	6.0	20.0
3 22	10 55.90	+0 56.2	1.507	2.475	7.0	20.5	3 22	10 54.55	+18 0.4	1.614	2.549	9.7	20.2
4 1	10 48.99	+1 23.3	1.563	2.485	11.2	20.7	4 1	10 46.91	+18 3.6	1.683	2.558	13.4	20.4
4 11	10 44.47	+1 42.2	1.642	2.496	14.9	21.0	4 11	10 41.79	+17 47.0	1.772	2.565	16.5	20.7
<b>327363</b>	2005 UL <sub>260</sub>		3 6.7 224°06	1°1/7.8	17		<b>157957</b>	2000 DG <sub>71</sub>		3 6.7 21°52	1°4/7.4	18	
2 1	11 32.30	-0 38.0	2.122	2.923	13.2	22.3	2 1	11 36.74	+2 48.0	1.084	1.930	20.1	18.8
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>170276</b>	2003 QH <sub>92</sub>		3 6.7 172°06'	0°9/ 7.6 18			<b>123039</b>	2000 SJ <sub>290</sub>		3 6.7 147°35'	1°4/ 8.0 18		
2 1	11 35.30	- 0 3.2	2.169	2.966	13.1	21.6	2 1	11 33.58	- 0 39.6	2.059	2.859	13.6	20.4
2 11	11 29.85	+ 0 26.3	2.084	2.970	10.0	21.4	2 11	11 28.65	- 0 26.4	1.977	2.864	10.4	20.2
2 21	11 22.47	+ 1 9.9	2.024	2.974	6.4	21.2	2 21	11 21.77	+ 0 1.0	1.920	2.869	6.8	20.0
3 2	11 13.76	+ 2 4.1	1.991	2.976	2.5	20.9	3 2	11 13.56	+ 0 39.7	1.889	2.873	2.9	19.8
3 12	11 4.59	+ 3 3.5	1.988	2.978	2.0	20.9	3 12	11 4.89	+ 1 24.9	1.887	2.877	2.2	19.7
3 22	10 55.85	+ 4 2.1	2.016	2.979	6.0	21.2	3 22	10 56.68	+ 2 11.2	1.914	2.881	6.0	20.0
4 1	10 48.40	+ 4 54.5	2.071	2.979	9.6	21.4	4 1	10 49.79	+ 2 53.1	1.969	2.884	9.7	20.2
4 11	10 42.85	+ 5 36.3	2.151	2.978	12.8	21.6	4 11	10 44.85	+ 3 26.3	2.048	2.887	12.9	20.4
<b>176985</b>	2002 YV <sub>19</sub>		3 6.7 156°66'	1°5/ 8.3 18			<b>250001</b>	2001 XR <sub>265</sub>		3 6.7 317°30'	9°1/ 15.7 18		
2 1	11 34.56	- 2 4.5	2.418	3.202	12.3	20.5	2 1	11 33.69	- 22 28.4	2.378	3.045	15.5	20.4
2 11	11 29.08	- 1 42.4	2.335	3.211	9.5	20.3	2 11	11 28.88	- 23 41.4	2.280	3.039	13.8	20.2
2 21	11 21.89	- 1 6.8	2.276	3.220	6.2	20.1	2 21	11 22.04	- 24 33.5	2.200	3.032	11.9	20.0
3 2	11 13.56	- 0 20.3	2.246	3.229	2.8	19.9	3 2	11 13.70	- 25 1.0	2.144	3.026	10.2	19.9
3 12	11 4.85	+ 0 32.7	2.247	3.236	2.0	19.8	3 12	11 4.67	- 25 2.6	2.112	3.020	9.2	19.8
3 22	10 56.56	+ 1 27.0	2.278	3.242	5.3	20.1	3 22	10 55.85	- 24 40.1	2.106	3.014	9.3	19.8
4 1	10 49.43	+ 2 17.7	2.337	3.248	8.6	20.3	4 1	10 48.17	- 23 57.9	2.124	3.008	10.6	19.9
4 11	10 44.00	+ 3 0.6	2.422	3.253	11.5	20.5	4 11	10 42.37	- 23 3.0	2.167	3.002	12.5	20.0
<b>391033</b>	2005 TR <sub>15</sub>		3 6.7 303°21'	2°9/ 8.5 17 R			<b>56749</b>	2000 OJ <sub>4</sub>		3 6.7 236°43'	4°0/ 11.2 18		
2 1	11 35.18	- 3 8.4	1.319	2.136	18.9	22.3	2 1	11 30.74	- 9 33.6	2.516	3.269	12.7	19.4
2 11	11 31.81	- 3 2.2	1.191	2.085	15.2	21.9	2 11	11 26.35	- 9 41.8	2.417	3.263	10.4	19.2
2 21	11 24.99	- 2 29.4	1.082	2.032	10.6	21.5	2 21	11 20.30	- 9 33.5	2.340	3.256	7.7	19.1
3 2	11 14.99	- 1 28.6	0.995	1.978	5.2	21.0	3 2	11 13.09	- 9 9.0	2.290	3.250	5.2	18.9
3 12	11 2.79	- 0 3.5	0.934	1.923	3.8	20.7	3 12	11 5.42	- 8 30.8	2.268	3.244	4.0	18.8
3 22	10 50.00	+ 1 36.8	0.898	1.868	10.0	20.9	3 22	10 58.02	- 7 42.9	2.276	3.237	5.5	18.9
4 1	10 38.59	+ 3 18.9	0.884	1.812	16.9	21.0	4 1	10 51.62	- 6 50.3	2.311	3.230	8.2	19.0
4 11	10 30.32	+ 4 49.2	0.890	1.755	23.4	21.2	4 11	10 46.80	- 5 58.5	2.372	3.223	11.0	19.2
<b>31915</b>	2000 GA <sub>66</sub>		3 6.7 208°09'	3°5/ 2.8 17			<b>111557</b>	2001 YN <sub>155</sub>		3 6.7 325°27'	7°5/ 13.4 18		
2 1	11 36.69	+ 15 31.7	2.553	3.378	10.5	20.1	2 1	11 35.04	- 16 35.2	2.302	3.011	15.0	19.1
2 11	11 30.71	+ 16 18.5	2.466	3.370	7.9	20.0	2 11	11 29.83	- 17 42.4	2.206	3.006	12.9	19.0
2 21	11 22.93	+ 17 7.3	2.407	3.362	5.1	19.8	2 21	11 22.60	- 18 30.9	2.130	3.002	10.6	18.8
3 2	11 13.92	+ 17 52.7	2.377	3.352	3.5	19.6	3 2	11 13.88	- 18 58.0	2.079	2.998	8.6	18.7
3 12	11 4.45	+ 18 29.1	2.377	3.342	4.8	19.7	3 12	11 4.50	- 19 3.1	2.055	2.994	7.5	18.6
3 22	10 55.36	+ 18 52.6	2.407	3.332	7.5	19.9	3 22	10 55.39	- 18 48.4	2.057	2.990	8.1	18.6
4 1	10 47.42	+ 19 1.0	2.465	3.320	10.4	20.0	4 1	10 47.45	- 18 18.3	2.086	2.986	10.0	18.7
4 11	10 41.23	+ 18 54.0	2.546	3.307	12.9	20.2	4 11	10 41.41	- 17 39.4	2.140	2.983	12.3	18.9
<b>244040</b>	2001 SL <sub>298</sub>		3 6.7 136°84'	0°1/ 6.5 17			<b>16536</b>	1991 PV <sub>1</sub>		3 6.7 241°28'	0°2/ 6.5 18		
2 1	11 32.95	+ 4 28.4	2.600	3.408	10.9	21.5	2 1	11 31.58	+ 2 29.0	2.124	2.937	12.8	19.3
2 11	11 27.75	+ 4 45.5	2.522	3.417	8.1	21.3	2 11	11 27.26	+ 3 15.0	2.028	2.926	9.6	19.1
2 21	11 21.02	+ 5 10.5	2.470	3.425	5.0	21.2	2 21	11 21.00	+ 4 15.0	1.957	2.914	6.0	18.8
3 2	11 13.27	+ 5 40.4	2.446	3.434	1.6	20.9	3 2	11 13.36	+ 5 24.7	1.913	2.901	1.9	18.6
3 12	11 5.21	+ 6 11.1	2.453	3.442	1.9	21.0	3 12	11 5.14	+ 6 37.7	1.900	2.889	2.3	18.6
3 22	10 57.56	+ 6 38.9	2.490	3.449	5.3	21.2	3 22	10 57.24	+ 7 47.3	1.915	2.875	6.5	18.8
4 1	10 50.96	+ 7 0.5	2.555	3.457	8.3	21.4	4 1	10 50.53	+ 8 47.3	1.958	2.862	10.3	19.0
4 11	10 45.93	+ 7 13.5	2.646	3.464	11.0	21.6	4 11	10 45.68	+ 9 33.5	2.024	2.848	13.6	19.2
<b>302085</b>	2000 YE <sub>13</sub>		3 6.7 89°11'	3°8/ 3.6 18			<b>253115</b>	2002 UW <sub>62</sub>		3 6.7 189°72'	3°7/ 10.9 17		
2 1	11 38.08	+ 12 2.7	1.587	2.428	15.0	20.8	2 1	11 32.38	- 9 55.1	2.213	2.969	14.2	22.5
2 11	11 32.25	+ 13 5.5	1.539	2.452	11.0	20.6	2 11	11 27.75	- 9 27.9	2.117	2.968	11.5	22.3
2 21	11 24.01	+ 14 13.7	1.514	2.476	6.8	20.4	2 21	11 21.24	- 8 39.3	2.044	2.966	8.3	22.1
3 2	11 14.24	+ 15 18.8	1.517	2.499	3.8	20.3	3 2	11 13.42	- 7 30.8	1.997	2.964	5.2	21.9
3 12	11 4.19	+ 16 12.1	1.547	2.522	5.6	20.4	3 12	11 5.09	- 6 6.7	1.980	2.961	3.7	21.8
3 22	10 55.06	+ 16 47.6	1.605	2.545	9.4	20.7	3 22	10 57.12	- 4 33.9	1.992	2.957	5.8	21.9
4 1	10 47.85	+ 17 2.8	1.687	2.567	13.1	20.9	4 1	10 50.34	- 2 59.9	2.033	2.953	9.1	22.1
4 11	10 43.17	+ 16 58.0	1.790	2.588	16.2	21.2	4 11	10 45.39	- 1 32.3	2.099	2.948	12.3	22.3
<b>238417</b>	2004 FS <sub>19</sub>		3 6.7 258°72'	0°6/ 7.4 17			<b>162666</b>	2000 SS <sub>263</sub>		3 6.7 37°01'	0°9/ 7.3 18		
2 1	11 28.53	- 0 23.3	2.338	3.142	12.1	20.7	2 1	11 36.36	+ 2 17.7	1.348	2.180	17.7	19.7
2 11	11 24.77	+ 0 23.7	2.245	3.135	9.2	20.5	2 11	11 31.60	+ 2 15.4	1.280	2.185	13.5	19.4
2 21	11 19.35	+ 1 25.5	2.176	3.128	5.8	20.2	2 21	11 23.97	+ 2 29.2	1.233	2.191	8.6	19.1
3 2	11 12.77	+ 2 38.3	2.135	3.121	2.2	20.0	3 2	11 14.35	+ 2 55.2	1.210	2.197	3.2	18.8
3 12	11 5.75	+ 3 56.4	2.124	3.114	1.9	19.9	3 12	11 4.08	+ 3 27.1	1.213	2.203	2.8	18.8
3 22	10 59.04	+ 5 13.5	2.142	3.107	5.6	20.2	3 22	10 54.59	+ 3 57.7	1.242	2.210	8.2	19.2
4 1	10 53.37	+ 6 23.8	2.189	3.099	9.1	20.4	4 1	10 47.16	+ 4 20.6	1.295	2.217	13.0	19.5
4 11	10 49.31	+ 7 22.5	2.260	3.092	12.1	20.6	4 11	10 42.59	+ 4 31.4	1.368	2.224	17.2	19.7
<b>346086</b>	2007 UD <sub>140</sub>		3 6.7 207°19'	1°0/ 5.5 17			<b>58279</b>	Kamerlingh		3 6.7 29°11'	1°4/ 4.8 18		
2 1	11 31.55	+ 6 50.1	2.576	3.394	10.7	22.1	2 1	11 27.20	+ 8 7.7	2.669	3.497	10.0	18.9
2 11	11 26.83	+ 7 23.9	2.489	3.390	7.9	21.9	2 11	11 23.51	+ 8 51.3	2.596	3.504	7.4	18.7
2 21	11 20.52	+ 8 5.2	2.426	3.386	4.8	21.7	2 21	11 18.44	+ 9 41.2	2.549	3.511	4.4	18.5
3 2	11 13.14	+ 8 50.1	2.393	3.381	1.6	21.4	3 2	11 12.47	+ 10 33.2	2.531	3.518	1.7	18.4
3 12	11 5.36	+ 9 33.9	2.390	3.376	2.5	21.5	3 12	11 6.22	+ 11 22.6	2.543	3.526	2.8	18.5
3 22	10 57.91	+ 10 12.2	2.417	3.371	5.8	21.7	3 22	11 0.32	+ 12 5.2	2.583	3.534	5.7	18.7
4 1	10 51.48	+ 10 41.5	2.472	3.365	8.9	21.9	4 1	10 55.36	+ 12 37.6	2.652	3.542	8.5	18.8
4 11	10 46.59	+ 10 59.5	2.551	3.359	11.6	22.1	4 11	10 51.79	+ 12 58.1	2.743	3.550	10.9	19.0
<b>154836</b>	2004 RS <sub>29</sub>		3 6.7 151°99'	0°9/ 5.6 18			<b>35054</b>	1983 WK		3 6.7 86°01'	6°9/ 28.8 18		
2 1	11 32.39	+ 5 15.5	2.2										

EPHEMERIDES

3 6.7

3 6.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>91244</b>	1999 <i>CP</i> <sub>33</sub>		3 6.7 16°73	0°0/ 6.5 18			<b>419735</b>	2010 <i>VY</i> <sub>51</sub>		3 6.7 40°44	5°4/ 2.8 18		
2 1	11 32.30	+ 2 57.8	1.148	1.998	18.9	18.8	2 1	11 35.68	+15 22.4	1.303	2.163	16.5	20.7
2 11	11 28.92	+ 3 18.6	1.086	2.001	14.3	18.5	2 11	11 30.91	+16 20.6	1.263	2.184	12.2	20.5
2 21	11 22.49	+ 3 58.9	1.043	2.006	8.9	18.2	2 21	11 23.38	+17 20.9	1.244	2.206	7.9	20.4
3 2	11 13.91	+ 4 52.5	1.022	2.011	2.9	17.9	3 2	11 14.12	+18 13.1	1.249	2.228	5.4	20.3
3 12	11 4.63	+ 5 50.1	1.027	2.017	3.2	17.9	3 12	11 4.58	+18 48.1	1.281	2.251	7.2	20.4
3 22	10 56.21	+ 6 41.8	1.055	2.024	9.1	18.3	3 22	10 56.14	+19 0.7	1.337	2.274	11.1	20.7
4 1	10 50.00	+ 7 19.5	1.106	2.032	14.4	18.6	4 1	10 49.88	+18 49.8	1.415	2.298	14.9	21.0
4 11	10 46.82	+ 7 38.5	1.176	2.040	18.8	18.9	4 11	10 46.43	+18 17.6	1.512	2.323	18.1	21.3
<b>138535</b>	2000 <i>OO</i> <sub>57</sub>		3 6.7 252°31	0°7/ 7.4 18			<b>299248</b>	2005 <i>MW</i> <sub>39</sub>		3 6.7 240°97	4°2/ 29.7 17		
2 1	11 31.68	+ 1 28.1	2.497	3.299	11.4	20.0	2 1	11 29.87	+17 2.8	2.673	3.511	9.7	21.0
2 11	11 27.06	+ 1 42.3	2.397	3.286	8.7	19.8	2 11	11 25.68	+18 26.7	2.589	3.499	7.3	20.8
2 21	11 20.76	+ 2 7.3	2.322	3.274	5.6	19.6	2 21	11 19.90	+19 53.3	2.533	3.486	5.1	20.7
3 2	11 13.28	+ 2 40.3	2.275	3.261	2.1	19.3	3 2	11 13.02	+21 16.2	2.507	3.474	4.2	20.6
3 12	11 5.31	+ 3 17.6	2.258	3.248	1.8	19.3	3 12	11 5.69	+22 28.9	2.510	3.460	5.6	20.6
3 22	10 57.63	+ 3 54.8	2.271	3.235	5.3	19.5	3 22	10 58.64	+23 26.6	2.542	3.447	8.1	20.8
4 1	10 50.94	+ 4 27.7	2.312	3.222	8.7	19.7	4 1	10 52.56	+24 6.4	2.600	3.433	10.6	20.9
4 11	10 45.85	+ 4 52.8	2.378	3.208	11.7	19.8	4 11	10 47.99	+24 27.3	2.680	3.419	12.8	21.1
<b>182332</b>	2001 <i>PO</i> <sub>24</sub>		3 6.7 179°85	0°5/ 7.2 16			<b>223634</b>	2004 <i>KV</i> <sub>4</sub>		3 6.7 222°05	1°9/ 4.6 18 R		
2 1	11 36.92	+ 2 29.7	2.482	3.277	11.7	21.6	2 1	11 33.45	+ 8 30.2	2.325	3.148	11.5	21.3
2 11	11 30.86	+ 2 39.9	2.392	3.279	8.9	21.4	2 11	11 28.51	+ 9 22.5	2.233	3.138	8.5	21.1
2 21	11 23.03	+ 2 59.6	2.329	3.280	5.6	21.2	2 21	11 21.72	+10 23.3	2.167	3.127	5.2	20.9
3 2	11 13.99	+ 3 26.1	2.294	3.281	2.0	20.9	3 2	11 13.62	+11 27.2	2.129	3.115	2.2	20.7
3 12	11 4.53	+ 3 55.6	2.291	3.280	1.9	20.9	3 12	11 5.01	+12 28.0	2.122	3.103	3.5	20.7
3 22	10 55.46	+ 4 23.9	2.318	3.279	5.5	21.1	3 22	10 56.72	+13 20.2	2.144	3.090	7.0	20.9
4 1	10 47.54	+ 4 47.5	2.374	3.277	8.8	21.4	4 1	10 49.56	+13 59.4	2.193	3.076	10.3	21.1
4 11	10 41.35	+ 5 3.3	2.456	3.275	11.7	21.5	4 11	10 44.17	+14 23.4	2.266	3.062	13.3	21.3
<b>53223</b>	1999 <i>CX</i> <sub>93</sub>		3 6.7 99°57	3°3/ 2.8 18			<b>97356</b>	2000 <i>AY</i> <sub>27</sub>		3 6.7 25°81	0°7/ 5.9 18		
2 1	11 30.49	+12 20.4	2.189	3.028	11.5	19.1	2 1	11 32.20	+ 5 26.7	2.017	2.841	12.9	19.8
2 11	11 26.26	+13 33.0	2.123	3.036	8.5	18.9	2 11	11 27.71	+ 5 56.4	1.937	2.842	9.7	19.5
2 21	11 20.27	+14 50.9	2.082	3.043	5.3	18.7	2 21	11 21.26	+ 6 36.5	1.882	2.842	5.9	19.3
3 2	11 13.10	+16 7.3	2.069	3.050	3.3	18.6	3 2	11 13.47	+ 7 22.3	1.854	2.843	1.8	19.0
3 12	11 5.57	+17 15.2	2.086	3.057	4.8	18.7	3 12	11 5.22	+ 8 8.0	1.855	2.843	2.7	19.1
3 22	10 58.50	+18 9.1	2.132	3.064	7.9	18.9	3 22	10 57.43	+ 8 48.2	1.885	2.844	6.7	19.3
4 1	10 52.66	+18 45.5	2.203	3.070	10.9	19.1	4 1	10 50.96	+ 9 18.2	1.941	2.844	10.4	19.6
4 11	10 48.59	+19 3.5	2.295	3.077	13.5	19.3	4 11	10 46.43	+ 9 35.2	2.020	2.845	13.6	19.8
<b>261908</b>	2006 <i>JK</i> <sub>48</sub>		3 6.7 304°02	5°4/ 2.2 18			<b>408418</b>	2013 <i>GB</i> <sub>135</sub>		3 6.7 286°40	1°9/ 5.1 16		
2 1	11 33.73	+14 22.3	1.445	2.302	15.4	20.4	2 1	11 33.43	+ 6 47.9	1.527	2.368	15.5	21.3
2 11	11 29.66	+15 41.2	1.375	2.295	11.5	20.1	2 11	11 29.27	+ 7 37.9	1.450	2.363	11.6	21.1
2 21	11 22.83	+17 7.2	1.328	2.289	7.6	19.9	2 21	11 22.53	+ 8 41.4	1.395	2.359	7.0	20.8
3 2	11 14.03	+18 29.8	1.306	2.283	5.4	19.7	3 2	11 13.94	+ 9 51.6	1.366	2.354	2.5	20.5
3 12	11 4.51	+19 37.6	1.310	2.278	7.5	19.8	3 12	11 4.67	+10 59.1	1.364	2.350	4.1	20.6
3 22	10 55.64	+20 22.5	1.339	2.272	11.5	20.0	3 22	10 55.97	+11 55.6	1.389	2.345	8.9	20.9
4 1	10 48.67	+20 40.5	1.391	2.267	15.6	20.2	4 1	10 49.01	+12 34.9	1.438	2.341	13.4	21.1
4 11	10 44.43	+20 31.8	1.461	2.261	19.1	20.5	4 11	10 44.59	+12 53.8	1.508	2.337	17.3	21.3
<b>164237</b>	2004 <i>TZ</i> <sub>20</sub>		3 6.7 349°46	3°7/ 9.7 18			<b>25380</b>	1999 <i>TA</i> <sub>212</sub>		3 6.7 273°38	0°0/ 6.5 18		
2 1	11 32.21	- 6 8.9	1.446	2.250	18.2	19.7	2 1	11 36.57	+ 3 43.8	1.358	2.193	17.4	19.6
2 11	11 28.47	- 6 0.3	1.367	2.249	14.5	19.5	2 11	11 32.01	+ 3 59.0	1.275	2.183	13.3	19.3
2 21	11 22.09	- 5 26.1	1.307	2.249	10.1	19.2	2 21	11 24.45	+ 4 30.6	1.213	2.174	8.3	19.0
3 2	11 13.80	- 4 28.1	1.271	2.248	5.6	18.9	3 2	11 14.63	+ 5 13.7	1.176	2.164	2.7	18.6
3 12	11 4.77	- 3 12.5	1.261	2.247	3.9	18.8	3 12	11 3.86	+ 6 0.7	1.165	2.154	3.2	18.6
3 22	10 56.31	- 1 48.6	1.276	2.247	7.6	19.0	3 22	10 53.66	+ 6 43.3	1.179	2.145	8.9	18.9
4 1	10 49.64	- 0 26.8	1.317	2.247	12.2	19.3	4 1	10 45.45	+ 7 14.2	1.218	2.135	14.1	19.2
4 11	10 45.58	+ 0 44.1	1.379	2.247	16.4	19.5	4 11	10 40.20	+ 7 28.9	1.276	2.125	18.6	19.4
<b>210120</b>	2006 <i>RL</i> <sub>37</sub>		3 6.7 92°68	1°8/ 4.6 17			<b>107289</b>	2001 <i>BM</i> <sub>82</sub>		3 6.7 110°37	1°7/ 5.0 18		
2 1	11 32.02	+ 9 25.5	2.466	3.292	10.8	20.6	2 1	11 32.77	+ 5 18.1	1.673	2.506	14.8	19.8
2 11	11 27.11	+10 4.7	2.403	3.309	8.0	20.5	2 11	11 28.42	+ 6 31.4	1.606	2.516	10.9	19.6
2 21	11 20.65	+10 49.3	2.366	3.327	4.8	20.3	2 21	11 21.81	+ 7 58.9	1.563	2.526	6.5	19.4
3 2	11 13.20	+11 34.6	2.358	3.344	2.0	20.1	3 2	11 13.66	+ 9 33.0	1.547	2.535	2.3	19.1
3 12	11 5.51	+12 15.6	2.380	3.361	3.1	20.2	3 12	11 5.04	+11 4.0	1.559	2.544	3.8	19.2
3 22	10 58.29	+12 48.4	2.431	3.378	6.2	20.5	3 22	10 57.04	+12 23.2	1.599	2.553	8.2	19.5
4 1	10 52.21	+13 10.0	2.510	3.395	9.1	20.7	4 1	10 50.65	+13 24.3	1.665	2.562	12.3	19.8
4 11	10 47.74	+13 19.2	2.612	3.411	11.6	20.9	4 11	10 46.53	+14 4.2	1.752	2.570	15.7	20.0
<b>63847</b>	2001 <i>RU</i> <sub>83</sub>		3 6.7 93°92	0°2/ 6.9 18			<b>52868</b>	1998 <i>SJ</i> <sub>25</sub>		3 6.7 41°12	4°1/ 3.6 18		
2 1	11 36.17	+ 2 11.8	1.441	2.268	17.0	20.4	2 1	11 33.42	+10 8.5	1.212	2.073	17.4	19.9
2 11	11 31.25	+ 2 39.1	1.375	2.279	12.9	20.1	2 11	11 29.63	+11 23.8	1.156	2.080	12.9	19.7
2 21	11 23.66	+ 3 23.4	1.332	2.290	8.0	19.9	2 21	11 22.85	+12 51.1	1.122	2.088	7.9	19.4
3 2	11 14.26	+ 4 19.4	1.313	2.301	2.7	19.6	3 2	11 14.04	+14 19.1	1.111	2.096	4.2	19.2
3 12	11 4.32	+ 5 18.9	1.321	2.311	2.8	19.6	3 12	11 4.63	+15 35.3	1.126	2.104	6.4	19.4
3 22	10 55.16	+ 6 13.6	1.357	2.322	8.0	20.0	3 22	10 56.14	+16 30.2	1.165	2.113	11.2	19.6
4 1	10 47.93	+ 6 56.7	1.417	2.332	12.6	20.2	4 1	10 49.83	+16 58.6	1.226	2.123	15.7	19.9
4 11	10 43.39	+ 7 23.8	1.498	2.342	16.6	20.5	4 11	10 46.48	+17 0.3	1.306	2.133	19.5	18.2
<b>67537</b>	2000 <i>SL</i> <sub>1</sub>		3 6.7 201°07	9°9/ 18.0 18			<b>135752</b>	2002 <i>QQ</i> <sub>22</sub>		3 6.7 188°79	0°1/ 6.8		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>312830</b>	2011 <i>SB</i> <sub>241</sub>		3 6.7 326°08	2°6/ 5.0	18		<b>134004</b>	2004 <i>VN</i> <sub>13</sub>		3 6.7 222°49	1°6/ 7.9	18	
2 1	11 38.24	+10 4.7	1.355	2.201	16.8	20.4	2 1	11 37.47	+0 8.7	1.705	2.513	15.7	20.6
2 11	11 33.17	+10 24.7	1.282	2.197	12.6	20.1	2 11	11 32.13	+0 9.3	1.616	2.507	12.1	20.4
2 21	11 25.07	+10 53.1	1.230	2.194	7.7	19.8	2 21	11 24.26	+0 25.4	1.549	2.500	7.9	20.1
3 2	11 14.80	+11 23.2	1.203	2.190	3.2	19.5	3 2	11 14.54	+0 54.5	1.508	2.493	3.3	19.8
3 12	11 3.77	+11 46.9	1.203	2.187	4.8	19.6	3 12	11 4.08	+1 31.5	1.496	2.486	2.6	19.7
3 22	10 53.49	+11 57.6	1.228	2.184	9.8	19.9	3 22	10 54.07	+2 10.4	1.511	2.478	7.2	20.0
4 1	10 45.33	+11 51.5	1.277	2.182	14.6	20.1	4 1	10 45.69	+2 44.8	1.553	2.469	11.7	20.2
4 11	10 40.17	+11 27.9	1.345	2.179	18.7	20.4	4 11	10 39.76	+3 9.6	1.617	2.461	15.6	20.5
<b>418288</b>	2008 <i>EU</i> <sub>155</sub>		3 6.7 293°79	1°1/ 5.6	17		<b>413877</b>	2006 <i>UL</i> <sub>271</sub>		3 6.7 165°80	1°0/ 5.8	16	
2 1	11 30.57	+4 19.4	1.714	2.547	14.5	21.2	2 1	11 35.04	+5 47.9	2.071	2.889	12.9	22.2
2 11	11 26.92	+5 16.9	1.629	2.538	10.8	21.0	2 11	11 29.77	+6 25.7	1.992	2.894	9.6	22.0
2 21	11 21.01	+6 30.2	1.567	2.529	6.6	20.7	2 21	11 22.51	+7 13.6	1.939	2.898	5.8	21.8
3 2	11 13.46	+7 53.1	1.531	2.520	2.1	20.4	3 2	11 13.90	+8 6.6	1.913	2.901	1.9	21.5
3 12	11 5.26	+9 17.1	1.524	2.511	3.3	20.4	3 12	11 4.84	+8 58.7	1.917	2.904	2.8	21.6
3 22	10 57.50	+10 33.3	1.543	2.502	7.9	20.7	3 22	10 56.27	+9 44.1	1.951	2.906	6.8	21.9
4 1	10 51.19	+11 34.7	1.588	2.493	12.2	20.9	4 1	10 49.05	+10 18.3	2.011	2.908	10.4	22.1
4 11	10 47.11	+12 16.9	1.655	2.485	15.9	21.1	4 11	10 43.81	+10 38.8	2.095	2.909	13.6	22.3
<b>286322</b>	2001 <i>WD</i> <sub>83</sub>		3 6.7 71°53	1°4/ 5.2	17	R	<b>333443</b>	2003 <i>TE</i> <sub>19</sub>		3 6.7 201°14	1°5/ 5.0	17	
2 1	11 30.88	+7 35.0	2.257	3.084	11.6	20.6	2 1	11 32.93	+8 12.4	2.519	3.338	10.8	22.0
2 11	11 26.50	+8 13.8	2.184	3.091	8.6	20.4	2 11	11 27.94	+8 51.7	2.432	3.335	8.0	21.8
2 21	11 20.41	+9 0.3	2.136	3.097	5.2	20.2	2 21	11 21.29	+9 38.0	2.370	3.330	4.9	21.6
3 2	11 13.19	+9 49.7	2.116	3.104	1.9	20.0	3 2	11 13.51	+10 26.9	2.338	3.325	1.8	21.4
3 12	11 5.62	+10 36.7	2.125	3.110	3.0	20.1	3 12	11 5.31	+11 13.4	2.337	3.320	2.9	21.5
3 22	10 58.49	+11 16.2	2.163	3.116	6.4	20.3	3 22	10 57.45	+11 52.7	2.365	3.314	6.2	21.7
4 1	10 52.53	+11 44.6	2.229	3.123	9.7	20.5	4 1	10 50.66	+12 21.6	2.421	3.308	9.3	21.8
4 11	10 48.29	+11 59.9	2.317	3.129	12.5	20.7	4 11	10 45.49	+12 37.8	2.501	3.301	12.0	22.0
<b>24976</b>	<i>Jurajtoth</i>		3 6.7 218°15	1°8/ 8.3	18		<b>88493</b>	2001 <i>QG</i> <sub>137</sub>		3 6.7 235°52	2°9/ 8.9	18	
2 1	11 35.78	-2 23.7	1.717	2.518	15.9	19.3	2 1	11 36.79	-3 39.9	1.770	2.563	15.8	19.9
2 11	11 30.88	-1 58.8	1.624	2.510	12.4	19.1	2 11	11 31.65	-3 40.3	1.672	2.550	12.5	19.7
2 21	11 23.50	-1 13.7	1.553	2.501	8.2	18.8	2 21	11 24.01	-3 22.0	1.595	2.537	8.6	19.4
3 2	11 14.30	-0 11.5	1.509	2.492	3.7	18.5	3 2	11 14.50	-2 46.3	1.544	2.523	4.5	19.1
3 12	11 4.31	+1 1.6	1.492	2.482	2.6	18.4	3 12	11 4.13	-1 57.6	1.521	2.508	3.2	19.0
3 22	10 54.74	+2 17.4	1.504	2.471	7.1	18.7	3 22	10 54.10	-1 2.3	1.526	2.493	7.1	19.2
4 1	10 46.72	+3 27.6	1.543	2.460	11.7	18.9	4 1	10 45.57	-0 7.7	1.558	2.477	11.4	19.4
4 11	10 41.10	+4 25.4	1.604	2.448	15.7	19.1	4 11	10 39.41	+0 39.3	1.613	2.461	15.4	19.6
<b>144775</b>	2004 <i>HT</i> <sub>25</sub>		3 6.7 309°04	2°3/ 4.3	17		<b>42947</b>	1999 <i>TB</i> <sub>98</sub>		3 6.7 213°77	4°2/ 2.8	18	
2 1	11 30.96	+10 12.4	2.149	2.984	11.9	19.9	2 1	11 35.62	+13 40.5	1.837	2.677	13.3	19.1
2 11	11 26.75	+10 53.8	2.065	2.976	8.8	19.6	2 11	11 30.57	+14 46.4	1.759	2.672	9.9	18.9
2 21	11 20.68	+11 41.8	2.006	2.968	5.4	19.4	2 21	11 23.19	+15 57.9	1.707	2.666	6.4	18.7
3 2	11 13.31	+12 31.3	1.974	2.960	2.5	19.2	3 2	11 14.17	+17 7.3	1.681	2.660	4.2	18.5
3 12	11 5.46	+13 16.1	1.972	2.952	3.9	19.3	3 12	11 4.56	+18 5.9	1.685	2.654	5.9	18.6
3 22	10 58.00	+13 51.1	1.997	2.944	7.3	19.5	3 22	10 55.46	+18 47.4	1.715	2.647	9.5	18.8
4 1	10 51.76	+14 12.7	2.049	2.937	10.7	19.7	4 1	10 47.92	+19 8.2	1.771	2.640	13.1	19.0
4 11	10 47.34	+14 18.9	2.123	2.929	13.7	19.9	4 11	10 42.66	+19 7.8	1.847	2.632	16.2	19.2
<b>499480</b>	2010 <i>JQ</i> <sub>103</sub>		3 6.7 11°26	6°2/13.3	17		<b>89005</b>	2001 <i>TH</i> <sub>79</sub>		3 6.7 107°77	1°7/ 5.2	18	
2 1	11 29.35	-14 33.2	1.929	2.674	16.3	20.7	2 1	11 37.59	+6 8.4	1.710	2.535	14.8	20.2
2 11	11 25.79	-14 42.3	1.842	2.675	13.7	20.6	2 11	11 31.82	+7 11.2	1.654	2.560	10.9	20.0
2 21	11 20.20	-14 26.4	1.775	2.676	10.7	20.4	2 21	11 23.78	+8 25.3	1.623	2.584	6.5	19.8
3 2	11 13.18	-13 44.8	1.731	2.678	7.8	20.2	3 2	11 14.30	+9 43.5	1.619	2.607	2.3	19.6
3 12	11 5.61	-12 40.6	1.714	2.680	6.2	20.1	3 12	11 4.50	+10 57.1	1.644	2.629	3.7	19.7
3 22	10 58.47	-11 19.9	1.723	2.682	7.2	20.2	3 22	10 55.49	+11 58.7	1.698	2.650	7.9	20.0
4 1	10 52.65	-9 50.7	1.759	2.684	9.9	20.3	4 1	10 48.22	+12 43.4	1.778	2.671	11.8	20.3
4 11	10 48.83	-8 22.2	1.819	2.687	13.0	20.5	4 11	10 43.31	+13 9.5	1.880	2.691	15.0	20.6
<b>465419</b>	2008 <i>OW</i> <sub>3</sub>		3 6.7 265°94	1°0/ 5.5	17		<b>358217</b>	2006 <i>SY</i> <sub>213</sub>		3 6.7 107°46	3°7/10.7	17	
2 1	11 31.44	+4 4.8	2.155	2.973	12.4	22.1	2 1	11 32.26	-7 53.9	2.444	3.205	12.9	20.7
2 11	11 27.28	+5 11.0	2.047	2.949	9.4	21.8	2 11	11 27.45	-8 7.3	2.359	3.212	10.3	20.6
2 21	11 21.14	+6 32.2	1.964	2.924	5.7	21.6	2 21	11 20.99	-8 5.2	2.298	3.220	7.5	20.4
3 2	11 13.51	+8 3.2	1.909	2.898	1.8	21.2	3 2	11 13.41	-7 48.2	2.262	3.227	4.8	20.2
3 12	11 5.19	+9 36.6	1.885	2.871	3.0	21.3	3 12	11 5.43	-7 18.9	2.256	3.234	3.7	20.2
3 22	10 57.06	+11 4.6	1.890	2.844	7.1	21.5	3 22	10 57.83	-6 41.3	2.279	3.241	5.4	20.3
4 1	10 50.05	+12 20.4	1.923	2.817	11.0	21.7	4 1	10 51.32	-6 0.1	2.330	3.248	8.2	20.5
4 11	10 44.87	+13 19.1	1.979	2.789	14.4	21.8	4 11	10 46.45	-5 20.4	2.406	3.255	10.9	20.7
<b>297809</b>	2002 <i>AB</i> <sub>57</sub>		3 6.7 71°69	0°9/ 7.4	18		<b>379137</b>	2009 <i>DA</i> <sub>24</sub>		3 6.7 84°55	5°1/ 1.1	18	
2 1	11 36.82	+0 45.0	1.380	2.205	17.8	20.8	2 1	11 32.48	+18 5.2	2.076	2.920	11.8	20.6
2 11	11 31.68	+1 7.9	1.326	2.227	13.4	20.6	2 11	11 27.86	+19 19.0	2.017	2.929	8.9	20.5
2 21	11 23.88	+1 49.3	1.293	2.249	8.5	20.4	2 21	11 21.32	+20 33.1	1.985	2.938	6.2	20.3
3 2	11 14.34	+2 43.8	1.284	2.271	3.1	20.1	3 2	11 13.51	+21 39.8	1.980	2.947	5.1	20.3
3 12	11 4.41	+3 43.1	1.302	2.293	2.7	20.2	3 12	11 5.35	+22 32.1	2.003	2.956	6.6	20.4
3 22	10 55.42	+4 39.0	1.347	2.314	7.8	20.5	3 22	10 57.75	+23 5.4	2.053	2.965	9.3	20.5
4 1	10 48.48	+5 24.1	1.417	2.336	12.4	20.8	4 1	10 51.53	+23 17.9	2.128	2.974	12.1	20.7
4 11	10 44.25	+5 54.2	1.508	2.357	16.2	21.1	4 11	10 47.27	+23 10.2	2.223	2.982	14.6	20.9
<b>430799</b>	2004 <i>VQ</i> <sub>52</sub>		3 6.7 78°80	5°4/ 1.4	18		<b>428456</b>	2007 <i>TK</i> <sub>443</sub>		3 6.7 137°21	0°3/ 6.4	17	
2 1	11 34.05	+18 11.6	1.900	2.746</									



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>159073</b>	2004 <i>TP</i> <sub>202</sub>		3 6.7 123°22	3°6/10.9	18	R	<b>4768</b>	Hartley		3 6.7 187°75	3°6/11.2	18	
2 1	11 32.48	- 9 3.9	2.348	3.104	13.4	20.7	2 1	11 33.09	- 9 34.9	3.193	3.927	10.7	17.5
2 11	11 27.64	- 8 55.2	2.268	3.119	10.8	20.5	2 11	11 27.77	- 9 53.3	3.093	3.926	8.7	17.3
2 21	11 21.10	- 8 28.5	2.212	3.133	7.8	20.4	2 21	11 21.09	- 9 59.1	3.016	3.925	6.5	17.2
3 2	11 13.44	- 7 45.1	2.182	3.147	4.9	20.2	3 2	11 13.46	- 9 52.5	2.968	3.923	4.5	17.0
3 12	11 5.43	- 6 48.8	2.180	3.160	3.7	20.1	3 12	11 5.45	- 9 34.9	2.950	3.921	3.6	17.0
3 22	10 57.85	- 5 44.8	2.209	3.173	5.5	20.3	3 22	10 57.69	- 9 9.1	2.962	3.918	4.7	17.0
4 1	10 51.43	- 4 39.1	2.265	3.185	8.4	20.5	4 1	10 50.74	- 8 38.4	3.004	3.915	6.9	17.2
4 11	10 46.72	- 3 37.5	2.347	3.197	11.1	20.7	4 11	10 45.08	- 8 6.7	3.073	3.911	9.1	17.3
<b>301519</b>	2009 <i>FF</i> <sub>18</sub>		3 6.7 314°49	6°8/29.8	17		<b>479319</b>	2013 <i>QQ</i> <sub>17</sub>		3 6.7 48°97	10°4/17.3	17	
2 1	11 39.29	+25 7.8	2.071	2.905	12.3	20.0	2 1	11 27.21	-24 40.1	1.002	1.754	27.8	20.3
2 11	11 33.15	+25 41.8	1.992	2.890	9.8	19.8	2 11	11 25.63	-24 4.5	0.938	1.766	24.1	20.0
2 21	11 24.69	+26 9.5	1.937	2.875	7.6	19.7	2 21	11 20.73	-22 28.3	0.886	1.778	19.6	19.8
3 2	11 14.65	+26 23.4	1.909	2.861	6.8	19.6	3 2	11 13.47	-19 47.2	0.852	1.790	14.8	19.5
3 12	11 4.09	+26 17.9	1.909	2.847	8.1	19.6	3 12	11 5.46	-16 9.4	0.839	1.804	11.0	19.4
3 22	10 54.12	+25 50.0	1.936	2.833	10.6	19.8	3 22	10 58.42	-11 56.4	0.849	1.817	10.9	19.4
4 1	10 45.76	+25 0.2	1.987	2.820	13.4	19.9	4 1	10 53.82	- 7 37.7	0.884	1.831	14.4	19.7
4 11	10 39.70	+23 51.4	2.060	2.807	16.0	20.1	4 11	10 52.51	- 3 41.1	0.942	1.846	18.9	20.0
<b>429887</b>	2012 <i>TS</i> <sub>25</sub>		3 6.7 171°36	0°4/ 7.3	17		<b>79190</b>	1993 <i>TT</i> <sub>9</sub>		3 6.7 167°77	2°4/ 9.9	17	
2 1	11 30.58	+ 1 13.6	2.489	3.292	11.4	21.8	2 1	11 27.31	- 5 23.6	2.830	3.604	10.9	19.7
2 11	11 26.19	+ 1 46.0	2.403	3.294	8.7	21.6	2 11	11 23.60	- 5 15.0	2.741	3.607	8.6	19.6
2 21	11 20.21	+ 2 29.9	2.342	3.295	5.4	21.4	2 21	11 18.57	- 4 53.5	2.676	3.609	6.0	19.4
3 2	11 13.16	+ 3 22.0	2.310	3.297	2.0	21.1	3 2	11 12.63	- 4 20.5	2.638	3.612	3.4	19.2
3 12	11 5.74	+ 4 17.5	2.308	3.298	1.8	21.1	3 12	11 6.38	- 3 39.1	2.630	3.615	2.5	19.2
3 22	10 58.67	+ 5 11.5	2.336	3.299	5.3	21.4	3 22	11 0.42	- 2 53.2	2.651	3.618	4.5	19.3
4 1	10 52.63	+ 5 59.3	2.391	3.299	8.5	21.6	4 1	10 55.31	- 2 6.9	2.701	3.621	7.1	19.5
4 11	10 48.14	+ 6 37.5	2.472	3.299	11.3	21.8	4 11	10 51.52	- 1 24.3	2.776	3.625	9.6	19.6
<b>119795</b>	2002 <i>AR</i> <sub>109</sub>		3 6.7 47°27	1°7/ 5.2	18		<b>221302</b>	2005 <i>UK</i> <sub>500</sub>		3 6.7 205°06	1°7/ 8.8	17	
2 1	11 32.55	+ 7 0.5	1.649	2.487	14.7	19.4	2 1	11 31.41	- 4 13.1	2.300	3.084	12.9	21.1
2 11	11 28.28	+ 7 45.6	1.584	2.496	10.9	19.2	2 11	11 27.01	- 3 28.5	2.204	3.079	10.0	20.9
2 21	11 21.75	+ 8 41.7	1.542	2.505	6.5	18.9	2 21	11 20.84	- 2 26.2	2.131	3.073	6.7	20.7
3 2	11 13.69	+ 9 42.3	1.527	2.515	2.3	18.7	3 2	11 13.42	- 1 9.1	2.086	3.067	3.2	20.4
3 12	11 5.19	+10 39.6	1.539	2.525	3.7	18.8	3 12	11 5.51	+ 0 17.3	2.072	3.061	2.2	20.4
3 22	10 57.34	+11 26.5	1.579	2.535	8.0	19.1	3 22	10 57.92	+ 1 46.1	2.087	3.054	5.5	20.6
4 1	10 51.11	+11 58.1	1.643	2.545	12.1	19.3	4 1	10 51.43	+ 3 10.5	2.132	3.046	9.1	20.8
4 11	10 47.18	+12 12.3	1.729	2.556	15.5	19.6	4 11	10 46.64	+ 4 24.7	2.201	3.038	12.2	21.0
<b>500000</b>	2011 <i>PM</i> <sub>6</sub>		3 6.7 220°72	3°7/10.7	17		<b>75244</b>	1999 <i>WO</i> <sub>12</sub>		3 6.7 183°24	0°7/ 7.4	18	
2 1	11 31.26	- 7 57.9	2.424	3.187	12.9	21.0	2 1	11 34.70	+ 0 26.8	1.959	2.765	14.0	20.7
2 11	11 26.81	- 8 6.7	2.331	3.185	10.4	20.8	2 11	11 29.69	+ 0 56.5	1.874	2.765	10.7	20.4
2 21	11 20.66	- 7 59.6	2.260	3.183	7.6	20.6	2 21	11 22.58	+ 1 41.3	1.813	2.765	6.8	20.2
3 2	11 13.33	- 7 37.2	2.216	3.181	4.9	20.5	3 2	11 14.00	+ 2 37.6	1.779	2.765	2.5	19.9
3 12	11 5.55	- 7 2.1	2.200	3.179	3.7	20.4	3 12	11 4.88	+ 3 39.2	1.774	2.764	2.2	19.9
3 22	10 58.09	- 6 18.4	2.213	3.177	5.5	20.5	3 22	10 56.21	+ 4 39.6	1.798	2.762	6.4	20.2
4 1	10 51.68	- 5 31.2	2.255	3.175	8.4	20.7	4 1	10 48.92	+ 5 32.6	1.849	2.760	10.4	20.4
4 11	10 46.90	- 4 45.8	2.321	3.172	11.2	20.8	4 11	10 43.70	+ 6 13.6	1.924	2.758	13.9	20.6
<b>145032</b>	2005 <i>EX</i> <sub>272</sub>		3 6.7 239°63	2°2/ 4.5	18		<b>345635</b>	2006 <i>SV</i> <sub>338</sub>		3 6.7 122°80	3°1/ 3.2	17	
2 1	11 34.11	+ 8 2.3	1.919	2.749	13.3	20.9	2 1	11 33.19	+14 38.0	2.494	3.326	10.5	21.2
2 11	11 29.43	+ 9 2.0	1.827	2.736	9.9	20.6	2 11	11 28.08	+15 17.7	2.425	3.333	7.8	21.0
2 21	11 22.52	+10 13.0	1.760	2.722	6.0	20.4	2 21	11 21.34	+15 59.3	2.382	3.340	5.0	20.8
3 2	11 14.00	+11 28.8	1.721	2.708	2.5	20.1	3 2	11 13.54	+16 37.8	2.368	3.347	3.2	20.7
3 12	11 4.79	+12 41.5	1.711	2.693	4.1	20.2	3 12	11 5.44	+17 8.1	2.384	3.354	4.4	20.8
3 22	10 55.94	+13 43.7	1.729	2.677	8.2	20.4	3 22	10 57.79	+17 26.9	2.429	3.361	7.1	21.0
4 1	10 48.47	+14 29.8	1.773	2.661	12.1	20.6	4 1	10 51.30	+17 32.0	2.500	3.367	9.8	21.2
4 11	10 43.13	+14 56.9	1.840	2.645	15.5	20.8	4 11	10 46.46	+17 23.2	2.595	3.373	12.2	21.3
<b>192750</b>	1999 <i>TB</i> <sub>254</sub>		3 6.7 96°47	0°1/ 6.6	18		<b>115184</b>	2003 <i>SO</i> <sub>95</sub>		3 6.7 20°26	1°2/ 7.6	18	
2 1	11 33.64	+ 4 0.3	1.988	2.806	13.3	20.9	2 1	11 36.58	+ 1 50.4	1.463	2.288	16.9	19.5
2 11	11 28.78	+ 4 21.0	1.913	2.813	10.0	20.7	2 11	11 31.69	+ 1 43.8	1.389	2.289	13.0	19.3
2 21	11 21.94	+ 4 52.8	1.861	2.819	6.2	20.5	2 21	11 24.08	+ 1 52.4	1.335	2.291	8.3	19.0
3 2	11 13.75	+ 5 31.4	1.837	2.825	2.0	20.2	3 2	11 14.54	+ 2 13.1	1.307	2.293	3.2	18.7
3 12	11 5.13	+ 6 11.6	1.841	2.831	2.3	20.2	3 12	11 4.31	+ 2 40.2	1.305	2.295	2.7	18.7
3 22	10 57.02	+ 6 48.0	1.875	2.837	6.5	20.5	3 22	10 54.75	+ 3 7.5	1.330	2.298	7.8	19.0
4 1	10 50.29	+ 7 15.9	1.935	2.843	10.2	20.8	4 1	10 47.08	+ 3 28.8	1.379	2.300	12.5	19.2
4 11	10 45.55	+ 7 32.4	2.018	2.848	13.4	21.0	4 11	10 42.12	+ 3 39.7	1.450	2.303	16.5	19.5
<b>366851</b>	2005 <i>RG</i> <sub>2</sub>		3 6.7 173°17	4°4/11.4	16		<b>212533</b>	2006 <i>RB</i> <sub>85</sub>		3 6.7 91°57	1°4/ 8.4	17	
2 1	11 35.78	-10 25.4	2.523	3.261	13.1	22.0	2 1	11 29.22	- 2 25.7	2.375	3.169	12.2	21.1
2 11	11 30.09	-10 42.4	2.430	3.265	10.7	21.9	2 11	11 25.23	- 1 52.3	2.295	3.177	9.4	20.9
2 21	11 22.65	-10 42.8	2.359	3.268	8.0	21.7	2 21	11 19.65	- 1 4.3	2.239	3.185	6.2	20.7
3 2	11 13.98	-10 26.7	2.315	3.271	5.5	21.5	3 2	11 13.01	- 0 4.9	2.210	3.193	2.8	20.5
3 12	11 4.85	- 9 56.1	2.301	3.272	4.4	21.5	3 12	11 6.03	+ 1 0.9	2.211	3.201	1.9	20.5
3 22	10 56.05	- 9 14.7	2.317	3.273	5.8	21.6	3 22	10 59.43	+ 2 7.5	2.242	3.209	5.1	20.7
4 1	10 48.36	- 8 27.6	2.361	3.274	8.4	21.7	4 1	10 53.89	+ 3 9.5	2.301	3.217	8.4	20.9
4 11	10 42.36	- 7 40.3	2.431	3.273	11.0	21.9	4 11	10 49.94	+ 4 2.4	2.384	3.224	11.3	21.1
<b>32055</b>	2000 <i>JS</i> <sub>39</sub>		3 6.7 237°34	0°5/ 6.1	18		<b>138674</b>	2000 <i>SJ</i> <sub>6</sub>		3 6.7 134°62	6°6/26.3	18	

EPHEMERIDES

3 6.7

3 6.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>138787</b>	2000 <i>SJ</i> <sub>358</sub>		3 6.7 21°14'	4.3/10.9	18		<b>340554</b>	2006 <i>KC</i> <sub>50</sub>		3 6.7 272°32'	3.3/10.3	17	
2 1	11 31.59	- 7 59.6	2.077	2.849	14.5	18.6	2 1	11 30.21	- 7 12.7	2.139	2.915	14.0	21.4
2 11	11 27.27	- 8 22.8	1.994	2.853	11.7	18.4	2 11	11 26.30	- 7 1.9	2.041	2.906	11.2	21.2
2 21	11 21.05	- 8 28.4	1.933	2.858	8.6	18.2	2 21	11 20.51	- 6 32.1	1.966	2.897	8.0	20.9
3 2	11 13.50	- 8 16.7	1.898	2.862	5.6	18.0	3 2	11 13.37	- 5 44.6	1.917	2.889	4.8	20.7
3 12	11 5.48	- 7 50.2	1.890	2.868	4.3	18.0	3 12	11 5.67	- 4 43.4	1.896	2.880	3.4	20.6
3 22	10 57.87	- 7 13.3	1.910	2.873	6.2	18.1	3 22	10 58.30	- 3 34.2	1.904	2.871	5.9	20.8
4 1	10 51.52	- 6 31.8	1.956	2.879	9.2	18.3	4 1	10 52.07	- 2 23.7	1.939	2.862	9.3	20.9
4 11	10 47.05	- 5 51.5	2.027	2.886	12.3	18.5	4 11	10 47.66	- 1 18.7	1.998	2.853	12.6	21.1
<b>24796</b>	1994 <i>CD</i> <sub>18</sub>		3 6.7 130°85'	1.2/ 5.9	18		<b>54510</b>	2000 <i>PD</i> <sub>7</sub>		3 6.7 326°31'	1.1/ 7.7	18	
2 1	11 41.52	+ 6 42.3	1.641	2.463	15.5	18.8	2 1	11 32.41	+ 0 11.8	1.713	2.530	15.2	18.3
2 11	11 34.96	+ 7 5.9	1.575	2.478	11.6	18.6	2 11	11 28.29	+ 0 29.1	1.630	2.527	11.7	18.1
2 21	11 25.86	+ 7 39.6	1.533	2.492	7.0	18.3	2 21	11 21.87	+ 1 2.9	1.570	2.524	7.5	17.8
3 2	11 15.07	+ 8 17.9	1.517	2.505	2.3	18.1	3 2	11 13.83	+ 1 49.7	1.535	2.520	3.0	17.5
3 12	11 3.82	+ 8 53.9	1.531	2.518	3.3	18.2	3 12	11 5.18	+ 2 43.7	1.527	2.518	2.4	17.5
3 22	10 53.38	+ 9 21.6	1.573	2.530	8.0	18.5	3 22	10 57.00	+ 3 37.7	1.547	2.515	6.9	17.8
4 1	10 44.84	+ 9 37.0	1.641	2.541	12.2	18.7	4 1	10 50.34	+ 4 24.9	1.593	2.512	11.2	18.0
4 11	10 38.91	+ 9 38.0	1.730	2.551	15.7	19.0	4 11	10 45.92	+ 5 0.4	1.661	2.510	15.0	18.2
<b>362166</b>	2009 <i>EW</i> <sub>17</sub>		3 6.7 277°91'	1.4/ 7.9	17		<b>42864</b>	1999 <i>RY</i> <sub>101</sub>		3 6.7 224°92'	3.2/ 9.6	18	
2 1	11 32.52	- 1 12.2	1.636	2.450	15.9	21.4	2 1	11 33.67	- 5 40.6	1.807	2.595	15.7	19.4
2 11	11 28.66	- 0 44.0	1.537	2.431	12.4	21.1	2 11	11 29.21	- 5 29.1	1.715	2.589	12.5	19.2
2 21	11 22.30	+ 0 4.8	1.459	2.412	8.1	20.8	2 21	11 22.46	- 4 56.6	1.644	2.582	8.7	18.9
3 2	11 14.02	+ 1 11.2	1.407	2.393	3.4	20.5	3 2	11 14.05	- 4 4.8	1.599	2.575	4.8	18.7
3 12	11 4.85	+ 2 28.4	1.383	2.373	2.6	20.4	3 12	11 4.94	- 2 58.7	1.581	2.568	3.4	18.6
3 22	10 55.99	+ 3 47.6	1.385	2.353	7.5	20.6	3 22	10 56.23	- 1 45.3	1.592	2.560	6.7	18.8
4 1	10 48.63	+ 4 59.9	1.413	2.334	12.3	20.8	4 1	10 48.96	- 0 32.8	1.629	2.552	10.8	19.0
4 11	10 43.69	+ 5 58.2	1.463	2.314	16.6	21.0	4 11	10 43.90	+ 0 31.5	1.690	2.543	14.5	19.2
<b>309840</b>	2009 <i>CV</i> <sub>25</sub>		3 6.7 33°60'	0°/ 6.5	18		<b>111423</b>	2001 <i>XU</i> <sub>196</sub>		3 6.7 168°00'	2.4/ 9.0	18	
2 1	11 37.60	+ 4 37.7	1.414	2.247	17.0	20.4	2 1	11 36.59	- 3 57.2	2.002	2.786	14.5	20.7
2 11	11 32.51	+ 4 38.1	1.343	2.250	12.8	20.2	2 11	11 31.06	- 3 44.2	1.918	2.791	11.4	20.5
2 21	11 24.60	+ 4 51.5	1.293	2.253	8.0	19.9	2 21	11 23.42	- 3 13.8	1.856	2.796	7.7	20.3
3 2	11 14.72	+ 5 13.5	1.269	2.257	2.6	19.6	3 2	11 14.32	- 2 28.2	1.821	2.800	3.9	20.1
3 12	11 4.18	+ 5 37.8	1.271	2.261	2.9	19.6	3 12	11 4.68	- 1 32.2	1.815	2.803	2.8	20.0
3 22	10 54.38	+ 5 58.0	1.299	2.265	8.2	19.9	3 22	10 55.52	- 0 32.2	1.839	2.805	6.1	20.2
4 1	10 46.59	+ 6 9.0	1.352	2.269	13.0	20.2	4 1	10 47.76	+ 0 25.5	1.890	2.807	9.9	20.5
4 11	10 41.60	+ 6 7.5	1.426	2.274	17.1	20.5	4 11	10 42.08	+ 1 15.1	1.966	2.807	13.3	20.7
<b>99717</b>	2002 <i>JS</i> <sub>43</sub>		3 6.7 320°72'	2.7/ 8.6	18		<b>496270</b>	2012 <i>ST</i> <sub>32</sub>		3 6.7 199°86'	0.5/ 6.2	17	
2 1	11 32.24	- 1 45.8	1.331	2.157	18.2	19.1	2 1	11 31.35	+ 4 28.5	2.385	3.200	11.5	22.0
2 11	11 28.90	- 1 54.4	1.243	2.142	14.3	18.8	2 11	11 26.87	+ 5 4.2	2.299	3.198	8.6	21.8
2 21	11 22.65	- 1 42.1	1.175	2.127	9.7	18.5	2 21	11 20.71	+ 5 49.8	2.238	3.196	5.3	21.6
3 2	11 14.17	- 1 10.3	1.130	2.113	4.7	18.2	3 2	11 13.41	+ 6 41.2	2.205	3.193	1.6	21.3
3 12	11 4.69	- 0 24.5	1.110	2.100	3.4	18.1	3 12	11 5.69	+ 7 33.5	2.202	3.191	2.2	21.4
3 22	10 55.64	+ 0 27.4	1.115	2.087	8.3	18.3	3 22	10 58.32	+ 8 21.5	2.229	3.188	5.9	21.6
4 1	10 48.46	+ 1 16.4	1.143	2.075	13.5	18.6	4 1	10 52.03	+ 9 0.9	2.284	3.185	9.2	21.8
4 11	10 44.14	+ 1 54.6	1.192	2.063	18.1	18.8	4 11	10 47.39	+ 9 28.7	2.362	3.181	12.1	22.0
<b>207948</b>	1993 <i>FL</i> <sub>12</sub>		3 6.7 67°12'	2.5/ 4.2	18		<b>335912</b>	2007 <i>RP</i> <sub>318</sub>		3 6.7 129°66'	0.2/ 6.5	17	
2 1	11 32.34	+10 31.9	2.090	2.924	12.2	19.9	2 1	11 31.35	+ 3 18.3	2.411	3.222	11.5	21.8
2 11	11 27.65	+11 19.5	2.031	2.942	8.9	19.7	2 11	11 26.78	+ 3 54.8	2.334	3.230	8.6	21.6
2 21	11 21.15	+12 12.6	1.997	2.959	5.4	19.5	2 21	11 20.60	+ 4 41.7	2.283	3.239	5.3	21.4
3 2	11 13.50	+13 5.4	1.991	2.976	2.6	19.3	3 2	11 13.36	+ 5 34.8	2.259	3.247	1.7	21.1
3 12	11 5.56	+13 51.9	2.015	2.994	4.0	19.5	3 12	11 5.77	+ 6 29.3	2.266	3.255	2.0	21.2
3 22	10 58.20	+14 27.1	2.066	3.011	7.3	19.7	3 22	10 58.60	+ 7 19.9	2.303	3.263	5.6	21.4
4 1	10 52.16	+14 48.1	2.144	3.028	10.5	19.9	4 1	10 52.52	+ 8 2.5	2.368	3.271	8.8	21.6
4 11	10 47.99	+14 53.8	2.244	3.046	13.2	20.1	4 11	10 48.05	+ 8 34.1	2.456	3.278	11.6	21.8
<b>56513</b>	2000 <i>HY</i> <sub>12</sub>		3 6.7 168°25'	1.4/ 5.3	18		<b>502456</b>	2015 <i>BB</i> <sub>304</sub>		3 6.7 63°31'	2.0/ 4.5	18	
2 1	11 35.00	+ 7 28.4	2.351	3.168	11.6	20.1	2 1	11 29.93	+ 7 34.2	2.039	2.873	12.5	20.6
2 11	11 29.55	+ 8 7.9	2.271	3.173	8.6	19.9	2 11	11 25.99	+ 8 40.9	1.973	2.883	9.2	20.4
2 21	11 22.32	+ 8 55.0	2.218	3.177	5.2	19.7	2 21	11 20.23	+ 9 57.2	1.931	2.893	5.5	20.2
3 2	11 13.91	+ 9 45.2	2.193	3.181	1.9	19.4	3 2	11 13.25	+11 16.4	1.917	2.904	2.3	20.0
3 12	11 5.09	+10 32.9	2.199	3.184	2.9	19.5	3 12	11 5.91	+12 31.4	1.932	2.914	3.7	20.1
3 22	10 56.72	+11 13.3	2.235	3.186	6.4	19.8	3 22	10 59.06	+13 35.5	1.976	2.924	7.3	20.3
4 1	10 49.54	+11 42.9	2.298	3.188	9.7	20.0	4 1	10 53.48	+14 24.2	2.046	2.935	10.7	20.6
4 11	10 44.12	+11 59.4	2.386	3.189	12.5	20.1	4 11	10 49.74	+14 55.3	2.138	2.946	13.6	20.8
<b>157515</b>	2005 <i>ST</i> <sub>105</sub>		3 6.7 64°54'	3.8/10.7	18		<b>457733</b>	2009 <i>HS</i>		3 6.7 14°24'	3.0/ 4.8	18	
2 1	11 30.17	- 9 8.4	1.759	2.539	16.4	19.3	2 1	11 33.20	+ 9 36.5	1.140	2.003	18.1	20.3
2 11	11 26.45	- 8 38.4	1.685	2.550	13.1	19.1	2 11	11 29.66	+10 9.1	1.083	2.007	13.5	20.1
2 21	11 20.63	- 7 43.4	1.631	2.562	9.4	18.9	2 21	11 23.03	+10 52.6	1.045	2.012	8.2	19.8
3 2	11 13.38	- 6 26.0	1.602	2.574	5.6	18.7	3 2	11 14.25	+11 38.5	1.031	2.018	3.4	19.5
3 12	11 5.68	- 4 52.3	1.601	2.585	3.9	18.6	3 12	11 4.83	+12 16.8	1.040	2.025	5.3	19.7
3 22	10 58.53	- 3 11.4	1.628	2.597	6.4	18.8	3 22	10 56.35	+12 39.5	1.074	2.033	10.5	20.0
4 1	10 52.84	- 1 32.6	1.681	2.609	10.2	19.1	4 1	10 50.15	+12 42.1	1.129	2.043	15.3	20.3
4 11	10 49.25	- 0 4.2	1.759	2.621	13.7	19.3	4 11	10 47.02	+12 23.9	1.203	2.053	19.4	20.5
<b>243505</b>	2009 <i>VG</i> <sub>106</sub>		3 6.7 174°22'	0.2/ 7.0	16		<b>19396</b>	1998 <i>EV</i> <sub>1</sub>		3 6.7 180°27'	0.7/ 6.1		

EPHEMERIDES

3 6.8

3 6.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>414789</b>	2010 RY <sub>80</sub>		3 6.8 151°72	0°2/ 6.9 18			<b>52065</b>	2002 QA <sub>23</sub>		3 6.8 189°11	0°9/ 7.6 18		
2 1	11 36.57	+ 2 52.1	1.978	2.788	13.7	22.3	2 1	11 36.36	+ 0 56.7	2.081	2.882	13.5	20.0
2 11	11 31.01	+ 3 12.5	1.901	2.795	10.4	22.1	2 11	11 30.86	+ 1 10.2	1.993	2.881	10.3	19.8
2 21	11 23.37	+ 3 44.8	1.847	2.802	6.5	21.9	2 21	11 23.30	+ 1 36.7	1.929	2.880	6.6	19.5
3 2	11 14.30	+ 4 25.4	1.821	2.809	2.2	21.6	3 2	11 14.31	+ 2 13.1	1.892	2.878	2.6	19.3
3 12	11 4.77	+ 5 8.5	1.825	2.815	2.2	21.6	3 12	11 4.78	+ 2 54.7	1.885	2.875	2.1	19.2
3 22	10 55.78	+ 5 48.7	1.858	2.820	6.5	21.9	3 22	10 55.67	+ 3 36.0	1.908	2.872	6.2	19.5
4 1	10 48.22	+ 6 21.1	1.918	2.825	10.3	22.1	4 1	10 47.89	+ 4 12.1	1.958	2.869	10.0	19.7
4 11	10 42.75	+ 6 42.4	2.001	2.829	13.6	22.3	4 11	10 42.11	+ 4 38.8	2.033	2.864	13.3	19.9
<b>403249</b>	2008 XO <sub>51</sub>		3 6.8 3°92	3°4/ 9.0 18			<b>231844</b>	2000 RZ <sub>74</sub>		3 6.8 230°74	2°4/ 10.1 17		
2 1	11 34.45	- 3 1.9	1.302	2.122	18.9	21.1	2 1	11 28.34	- 7 40.3	2.584	3.350	12.1	20.3
2 11	11 30.45	- 3 17.6	1.228	2.121	14.9	20.8	2 11	11 24.59	- 6 53.7	2.483	3.343	9.6	20.1
2 21	11 23.52	- 3 11.3	1.173	2.121	10.2	20.5	2 21	11 19.31	- 5 48.8	2.406	3.337	6.7	19.9
3 2	11 14.45	- 2 44.4	1.141	2.122	5.3	20.3	3 2	11 12.98	- 4 27.9	2.356	3.330	3.8	19.7
3 12	11 4.58	- 2 2.4	1.134	2.123	3.8	20.2	3 12	11 6.24	- 2 55.7	2.337	3.323	2.5	19.6
3 22	10 55.37	- 1 13.0	1.153	2.124	8.1	20.4	3 22	10 59.77	- 1 18.5	2.348	3.316	4.9	19.8
4 1	10 48.18	- 0 25.2	1.195	2.126	13.1	20.7	4 1	10 54.24	+ 0 17.2	2.389	3.309	8.0	20.0
4 11	10 43.89	+ 0 13.2	1.257	2.128	17.4	21.0	4 11	10 50.16	+ 1 45.2	2.456	3.301	10.9	20.1
<b>289767</b>	2005 JY <sub>82</sub>		3 6.8 289°95	2°9/ 9.3 16			<b>278385</b>	2007 MA <sub>24</sub>		3 6.8 118°90	2°9/ 11.1 16		
2 1	11 31.14	- 5 9.1	1.595	2.398	16.8	21.1	2 1	11 30.57	- 9 49.6	3.011	3.752	11.1	20.9
2 11	11 27.60	- 4 47.5	1.505	2.389	13.3	20.9	2 11	11 25.88	- 9 16.2	2.932	3.774	8.9	20.7
2 21	11 21.61	- 4 2.0	1.436	2.379	9.1	20.6	2 21	11 19.91	- 8 27.4	2.878	3.795	6.4	20.6
3 2	11 13.82	- 2 54.6	1.391	2.370	4.8	20.3	3 2	11 13.13	- 7 25.2	2.852	3.816	4.0	20.4
3 12	11 5.26	- 1 31.8	1.373	2.361	3.2	20.2	3 12	11 6.13	- 6 13.1	2.857	3.837	2.9	20.4
3 22	10 57.12	- 0 2.5	1.381	2.352	7.2	20.4	3 22	10 59.48	- 4 56.0	2.893	3.856	4.4	20.5
4 1	10 50.54	+ 1 23.5	1.416	2.343	11.7	20.6	4 1	10 53.73	- 3 38.8	2.959	3.875	6.7	20.7
4 11	10 46.35	+ 2 37.7	1.472	2.334	15.9	20.8	4 11	10 49.29	- 2 26.4	3.052	3.894	9.0	20.9
<b>19049</b>	1105 T <sub>-1</sub>		3 6.8 45°08	1°4/ 8.1 18			<b>120202</b>	2004 EL <sub>6</sub>		3 6.8 233°14	0°1/ 6.9 18		
2 1	11 30.51	- 1 50.1	1.722	2.534	15.3	18.0	2 1	11 38.67	+ 3 10.4	1.655	2.472	15.6	20.3
2 11	11 26.77	- 1 14.0	1.648	2.541	11.8	17.8	2 11	11 33.23	+ 3 25.8	1.563	2.461	11.9	20.0
2 21	11 20.87	- 0 18.7	1.596	2.548	7.6	17.6	2 21	11 25.11	+ 3 55.5	1.493	2.449	7.5	19.8
3 2	11 13.51	+ 0 51.5	1.570	2.555	3.2	17.3	3 2	11 14.99	+ 4 35.5	1.449	2.437	2.5	19.4
3 12	11 5.66	+ 2 9.6	1.572	2.562	2.3	17.3	3 12	11 4.01	+ 5 19.7	1.434	2.424	2.7	19.4
3 22	10 58.35	+ 3 27.3	1.601	2.570	6.6	17.6	3 22	10 53.45	+ 6 1.0	1.446	2.410	7.8	19.7
4 1	10 52.52	+ 4 36.8	1.657	2.578	10.8	17.8	4 1	10 44.56	+ 6 33.2	1.485	2.395	12.5	19.9
4 11	10 48.83	+ 5 32.6	1.735	2.586	14.4	18.1	4 11	10 38.24	+ 6 52.1	1.545	2.380	16.6	20.1
<b>26407</b>	1999 XT <sub>24</sub>		3 6.8 153°59	1°6/ 5.1 18			<b>221149</b>	Cindyfoote		3 6.8 143°77	0°2/ 6.9 18		
2 1	11 35.74	+ 7 14.1	2.121	2.941	12.6	19.7	2 1	11 34.68	+ 2 57.8	1.867	2.683	14.1	20.9
2 11	11 30.26	+ 8 5.4	2.048	2.951	9.3	19.5	2 11	11 29.77	+ 3 15.4	1.788	2.686	10.7	20.7
2 21	11 22.84	+ 9 5.8	2.000	2.959	5.6	19.3	2 21	11 22.69	+ 3 45.6	1.732	2.688	6.7	20.4
3 2	11 14.12	+ 10 9.5	1.980	2.968	2.1	19.1	3 2	11 14.12	+ 4 24.5	1.703	2.690	2.3	20.2
3 12	11 5.00	+ 11 10.0	1.991	2.975	3.3	19.2	3 12	11 5.03	+ 5 6.5	1.703	2.693	2.3	20.2
3 22	10 56.39	+ 12 1.5	2.031	2.982	7.0	19.4	3 22	10 56.46	+ 5 45.6	1.731	2.695	6.7	20.4
4 1	10 49.13	+ 12 39.7	2.099	2.988	10.5	19.7	4 1	10 49.35	+ 6 16.8	1.785	2.696	10.7	20.7
4 11	10 43.82	+ 13 2.5	2.190	2.993	13.4	19.9	4 11	10 44.38	+ 6 36.4	1.863	2.698	14.2	20.9
<b>453819</b>	2011 SJ <sub>117</sub>		3 6.8 78°48	3°1/ 9.3 18			<b>8118</b>	1996 WG <sub>3</sub>		3 6.8 273°29	4°8/ 11.7 18		
2 1	11 36.28	- 4 45.2	1.496	2.296	17.8	21.2	2 1	11 30.22	- 11 17.9	1.939	2.701	15.7	17.5
2 11	11 31.20	- 4 35.3	1.437	2.319	13.9	21.0	2 11	11 26.59	- 11 4.5	1.836	2.687	12.9	17.2
2 21	11 23.62	- 4 2.8	1.398	2.341	9.4	20.8	2 21	11 20.86	- 10 26.5	1.754	2.673	9.7	17.0
3 2	11 14.39	- 3 11.0	1.384	2.363	4.9	20.6	3 2	11 13.57	- 9 24.0	1.697	2.659	6.4	16.8
3 12	11 4.75	- 2 6.6	1.397	2.385	3.4	20.5	3 12	11 5.60	- 8 0.8	1.666	2.644	4.8	16.6
3 22	10 55.93	- 0 58.1	1.438	2.407	7.1	20.8	3 22	10 57.91	- 6 24.0	1.664	2.630	6.7	16.7
4 1	10 49.01	+ 0 6.1	1.504	2.428	11.4	21.1	4 1	10 51.50	- 4 42.5	1.688	2.615	10.2	16.9
4 11	10 44.64	+ 0 59.2	1.592	2.449	15.1	21.4	4 11	10 47.09	- 3 5.6	1.737	2.601	13.7	17.1
<b>169294</b>	2001 SC <sub>315</sub>		3 6.8 27°14	6°5/ 13.3 18			<b>283199</b>	2010 DP <sub>13</sub>		3 6.8 151°18	1°3/ 5.1 17		
2 1	11 29.87	- 14 10.6	1.851	2.601	16.8	18.9	2 1	11 30.64	+ 7 21.7	2.632	3.452	10.4	21.0
2 11	11 26.23	- 14 35.4	1.776	2.611	14.0	18.7	2 11	11 26.17	+ 8 5.8	2.554	3.457	7.7	20.8
2 21	11 20.52	- 14 35.7	1.720	2.621	11.0	18.6	2 21	11 20.22	+ 8 56.9	2.502	3.462	4.6	20.6
3 2	11 13.40	- 14 10.7	1.687	2.632	8.1	18.4	3 2	11 13.27	+ 9 50.9	2.480	3.467	1.7	20.4
3 12	11 5.78	- 13 23.1	1.679	2.643	6.6	18.3	3 12	11 6.00	+ 10 42.7	2.487	3.471	2.7	20.5
3 22	10 58.67	- 12 18.7	1.698	2.655	7.5	18.4	3 22	10 59.09	+ 11 28.0	2.525	3.476	5.8	20.7
4 1	10 52.96	- 11 5.2	1.743	2.668	10.1	18.6	4 1	10 53.17	+ 12 3.3	2.590	3.479	8.7	20.9
4 11	10 49.30	- 9 51.2	1.812	2.681	13.0	18.8	4 11	10 48.74	+ 12 26.4	2.679	3.483	11.2	21.0
<b>340767</b>	2006 SN <sub>329</sub>		3 6.8 31°40	0°2/ 6.9 17			<b>122086</b>	2000 HT <sub>45</sub>		3 6.8 273°58	4°5/ 3.4 18		
2 1	11 29.18	+ 1 50.6	2.029	2.848	13.1	20.8	2 1	11 36.64	+ 12 59.4	1.416	2.267	15.9	19.9
2 11	11 25.46	+ 2 27.1	1.956	2.855	9.9	20.6	2 11	11 31.97	+ 13 57.3	1.343	2.261	11.9	19.6
2 21	11 19.93	+ 3 17.0	1.906	2.863	6.1	20.4	2 21	11 24.41	+ 15 2.8	1.293	2.256	7.6	19.4
3 2	11 13.18	+ 4 15.8	1.883	2.871	2.1	20.1	3 2	11 14.76	+ 16 6.4	1.268	2.250	4.6	19.2
3 12	11 6.04	+ 5 17.6	1.889	2.879	2.1	20.1	3 12	11 4.35	+ 16 58.0	1.270	2.245	6.5	19.3
3 22	10 59.37	+ 6 16.1	1.924	2.888	6.1	20.4	3 22	10 54.62	+ 17 29.7	1.297	2.239	10.9	19.5
4 1	10 53.94	+ 7 5.9	1.985	2.897	9.7	20.6	4 1	10 46.89	+ 17 37.8	1.347	2.233	15.3	19.7
4 11	10 50.32	+ 7 43.1	2.069	2.907	12.9	20.9	4 11	10 42.03	+ 17 22.1	1.416	2.228	19.0	20.0
<b>410069</b>	2007 CP <sub>6</sub>		3 6.8 65°80	1°5/ 5.5 18			<b>28394</b>	Mittag-Leffler		3 6.8 125°69	0°5/ 7.3 18		
2 1	11 34.39	+ 6 22.2	1.617	2.452									

EPHEMERIDES

3 6.8

3 6.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>495434</b>	2014 <i>SJ</i> <sub>242</sub>		3 6.8 238°46	2°9/ 4.1 17			<b>241133</b>	2007 <i>PF</i> <sub>48</sub>		3 6.8 165°60	4°8/ 1.4 17		
2 1	11 33.98	+ 8 51.1	1.697	2.535	14.3	21.2	2 1	11 35.62	+20 8.3	2.460	3.293	10.6	20.5
2 11	11 29.60	+10 1.4	1.614	2.527	10.7	20.9	2 11	11 30.01	+20 58.8	2.393	3.296	8.1	20.4
2 21	11 22.79	+11 23.8	1.555	2.517	6.5	20.7	2 21	11 22.62	+21 47.5	2.351	3.299	5.8	20.2
3 2	11 14.22	+12 50.4	1.522	2.508	3.1	20.4	3 2	11 14.08	+22 28.5	2.339	3.302	4.8	20.1
3 12	11 4.94	+14 11.7	1.518	2.498	4.9	20.5	3 12	11 5.19	+22 56.5	2.355	3.305	6.0	20.2
3 22	10 56.12	+15 19.1	1.542	2.488	9.2	20.7	3 22	10 56.80	+23 8.2	2.400	3.307	8.4	20.4
4 1	10 48.86	+16 6.6	1.590	2.477	13.3	20.9	4 1	10 49.66	+23 2.4	2.471	3.308	10.9	20.5
4 11	10 43.97	+16 31.8	1.659	2.466	16.9	21.2	4 11	10 44.31	+22 40.0	2.563	3.310	13.2	20.7
<b>282867</b>	2007 <i>DZ</i> <sub>116</sub>		3 6.8 29°27	12°4/ 4.5 16			<b>498600</b>	2008 <i>RD</i> <sub>35</sub>		3 6.8 158°97	0°4/ 7.2 17		
2 1	12 5.02	+34 33.7	1.040	1.868	22.1	18.9	2 1	11 33.37	+ 2 1.0	2.274	3.079	12.3	22.5
2 11	11 52.78	+34 13.5	1.015	1.899	18.1	18.8	2 11	11 28.43	+ 2 22.3	2.191	3.083	9.3	22.3
2 21	11 36.45	+33 24.5	1.008	1.932	14.5	18.7	2 21	11 21.72	+ 2 55.0	2.133	3.087	5.9	22.1
3 2	11 18.29	+31 56.7	1.025	1.967	12.5	18.7	3 2	11 13.80	+ 3 35.7	2.104	3.090	2.1	21.8
3 12	11 1.08	+29 49.5	1.067	2.003	13.2	18.8	3 12	11 5.47	+ 4 19.6	2.104	3.094	1.9	21.8
3 22	10 46.94	+27 12.9	1.134	2.040	15.7	19.1	3 22	10 57.55	+ 5 1.8	2.133	3.097	5.7	22.1
4 1	10 37.03	+24 20.3	1.224	2.078	18.8	19.4	4 1	10 50.82	+ 5 37.8	2.191	3.099	9.2	22.3
4 11	10 31.51	+21 23.5	1.334	2.117	21.5	19.7	4 11	10 45.84	+ 6 4.3	2.272	3.101	12.2	22.5
<b>256368</b>	2006 <i>YV</i> <sub>2</sub>		3 6.8 38°49	0°9/ 5.9 18			<b>428972</b>	2008 <i>YT</i> <sub>152</sub>		3 6.8 197°83	4°2/ 1.4 17		
2 1	11 32.26	+ 4 33.5	1.443	2.283	16.3	20.4	2 1	11 30.01	+14 50.1	2.275	3.117	11.0	21.1
2 11	11 28.35	+ 5 14.7	1.383	2.295	12.1	20.1	2 11	11 26.02	+16 19.0	2.203	3.116	8.2	21.0
2 21	11 21.96	+ 6 10.8	1.344	2.307	7.4	19.9	2 21	11 20.28	+17 52.1	2.158	3.115	5.5	20.8
3 2	11 13.90	+ 7 15.0	1.331	2.320	2.3	19.6	3 2	11 13.34	+19 22.0	2.141	3.114	4.2	20.7
3 12	11 5.37	+ 8 18.6	1.345	2.333	3.3	19.7	3 12	11 5.97	+20 41.3	2.154	3.113	5.7	20.8
3 22	10 57.59	+ 9 13.2	1.385	2.347	8.2	20.0	3 22	10 58.99	+21 44.2	2.195	3.112	8.5	21.0
4 1	10 51.63	+ 9 52.8	1.449	2.362	12.6	20.3	4 1	10 53.16	+22 27.2	2.262	3.111	11.4	21.1
4 11	10 48.16	+10 14.3	1.533	2.376	16.3	20.6	4 11	10 49.06	+22 49.6	2.349	3.110	13.9	21.3
<b>46516</b>	1978 <i>VQ</i> <sub>6</sub>		3 6.8 60°84	0°8/ 5.9 18			<b>38008</b>	1998 <i>KP</i> <sub>50</sub>		3 6.8 320°42	2°4/ 4.3 18		
2 1	11 32.47	+ 5 33.4	1.988	2.813	13.1	19.3	2 1	11 28.63	+ 6 27.0	1.697	2.539	14.1	18.9
2 11	11 27.96	+ 6 3.5	1.916	2.820	9.7	19.1	2 11	11 25.56	+ 7 51.9	1.614	2.529	10.5	18.6
2 21	11 21.49	+ 6 43.6	1.867	2.827	5.9	18.9	2 21	11 20.28	+ 9 32.5	1.556	2.520	6.3	18.4
3 2	11 13.73	+ 7 29.0	1.846	2.834	1.9	18.6	3 2	11 13.40	+11 20.6	1.524	2.511	2.6	18.1
3 12	11 5.55	+ 8 14.1	1.853	2.841	2.7	18.7	3 12	11 5.88	+13 6.0	1.521	2.503	4.5	18.2
3 22	10 57.88	+ 8 53.1	1.889	2.848	6.7	19.0	3 22	10 58.79	+14 38.7	1.545	2.495	8.8	18.4
4 1	10 51.57	+ 9 21.8	1.951	2.855	10.3	19.2	4 1	10 53.14	+15 51.4	1.593	2.487	12.9	18.6
4 11	10 47.20	+ 9 37.4	2.036	2.863	13.5	19.4	4 11	10 49.66	+16 40.3	1.663	2.479	16.5	18.9
<b>472712</b>	2015 <i>FA</i> <sub>45</sub>		3 6.8 321°40	1°1/ 8.0 17			<b>22129</b>	2000 <i>SD</i> <sub>311</sub>		3 6.8 163°24	2°5/ 9.9 18		
2 1	11 28.85	- 1 17.2	2.175	2.979	12.8	21.7	2 1	11 33.02	- 5 13.8	2.981	3.742	10.7	19.3
2 11	11 25.21	- 0 43.1	2.085	2.974	9.9	21.5	2 11	11 27.80	- 5 22.8	2.889	3.747	8.5	19.2
2 21	11 19.82	+ 0 6.4	2.020	2.970	6.4	21.0	2 21	11 21.18	- 5 20.2	2.823	3.751	6.0	19.0
3 2	11 13.19	+ 1 8.1	1.981	2.966	2.7	21.3	3 2	11 13.61	- 5 7.1	2.784	3.755	3.5	18.8
3 12	11 6.10	+ 2 16.5	1.971	2.962	2.0	21.0	3 12	11 5.70	- 4 45.6	2.776	3.759	2.6	18.8
3 22	10 59.36	+ 3 25.4	1.991	2.958	5.7	21.2	3 22	10 58.08	- 4 18.9	2.799	3.762	4.5	18.9
4 1	10 53.74	+ 4 28.7	2.037	2.954	9.3	21.4	4 1	10 51.35	- 3 50.4	2.850	3.764	7.1	19.1
4 11	10 49.84	+ 5 21.5	2.108	2.950	12.5	21.6	4 11	10 45.99	- 3 23.7	2.929	3.767	9.5	19.2
<b>72001</b>	2000 <i>WX</i> <sub>188</sub>		3 6.8 42°93	1°3/ 7.7 18			<b>445880</b>	2012 <i>UF</i> <sub>99</sub>		3 6.8 159°72	0°4/ 6.5 18		
2 1	11 33.97	+ 0 6.2	1.346	2.175	17.9	19.4	2 1	11 37.74	+ 3 27.4	1.489	2.315	16.6	22.1
2 11	11 29.86	+ 0 21.2	1.281	2.183	13.7	19.1	2 11	11 32.56	+ 4 2.6	1.416	2.320	12.5	21.8
2 21	11 23.01	+ 0 56.1	1.236	2.192	8.8	18.9	2 21	11 24.66	+ 4 53.9	1.365	2.324	7.7	21.6
3 2	11 14.28	+ 1 46.4	1.216	2.202	3.5	18.6	3 2	11 14.84	+ 5 55.6	1.339	2.328	2.5	21.2
3 12	11 4.95	+ 2 44.4	1.221	2.211	2.7	18.5	3 12	11 4.36	+ 6 59.3	1.341	2.331	3.1	21.3
3 22	10 56.39	+ 3 41.3	1.252	2.222	7.9	18.9	3 22	10 54.56	+ 7 56.4	1.371	2.333	8.3	21.6
4 1	10 49.80	+ 4 29.1	1.307	2.232	12.7	19.2	4 1	10 46.66	+ 8 40.0	1.425	2.335	13.0	21.9
4 11	10 45.94	+ 5 2.3	1.384	2.243	16.8	19.5	4 11	10 41.47	+ 9 6.4	1.500	2.337	17.0	22.1
<b>105872</b>	2000 <i>SZ</i> <sub>174</sub>		3 6.8 109°31	0°2/ 6.9 18			<b>189778</b>	2002 <i>CW</i> <sub>200</sub>		3 6.8 215°71	1°0/ 5.8 17		
2 1	11 40.12	+ 3 53.5	1.639	2.457	15.8	20.0	2 1	11 31.91	+ 5 2.7	1.944	2.769	13.3	20.7
2 11	11 33.98	+ 3 55.7	1.571	2.470	11.9	19.8	2 11	11 27.67	+ 5 49.6	1.863	2.768	9.9	20.5
2 21	11 25.33	+ 4 9.9	1.526	2.482	7.4	19.5	2 21	11 21.41	+ 6 48.8	1.806	2.767	6.0	20.3
3 2	11 15.00	+ 4 32.2	1.508	2.495	2.5	19.2	3 2	11 13.74	+ 7 54.8	1.777	2.765	1.9	20.0
3 12	11 4.18	+ 4 57.0	1.517	2.507	2.5	19.3	3 12	11 5.56	+ 9 0.6	1.776	2.763	2.9	20.1
3 22	10 54.13	+ 5 18.7	1.555	2.519	7.3	19.6	3 22	10 57.83	+ 9 59.6	1.804	2.762	7.1	20.3
4 1	10 45.92	+ 5 32.8	1.619	2.530	11.6	19.9	4 1	10 51.43	+10 46.1	1.858	2.760	10.9	20.5
4 11	10 40.25	+ 5 36.1	1.706	2.541	15.3	20.1	4 11	10 47.03	+11 16.9	1.935	2.758	14.2	20.7
<b>301626</b>	2010 <i>ER</i> <sub>27</sub>		3 6.8 230°91	4°0/12.1 18			<b>523782</b>	2015 <i>BD</i> <sub>518</sub>		3 6.8 7°19	0°1/ 7.1 18		
2 1	11 29.11	-12 3.8	2.739	3.475	12.2	21.3	2 1	11 15.65	+ 4 1.5	15.581	16.379	2.1	21.7
2 11	11 25.13	-11 51.6	2.634	3.467	10.0	21.2	2 11	11 14.18	+ 4 7.1	15.492	16.381	1.5	21.6
2 21	11 19.65	-11 21.5	2.552	3.459	7.6	21.0	2 21	11 12.52	+ 4 14.0	15.431	16.384	0.9	21.6
3 2	11 13.12	-10 34.2	2.496	3.450	5.2	20.8	3 2	11 10.73	+ 4 21.7	15.400	16.387	0.3	21.5
3 12	11 6.18	- 9 32.2	2.469	3.441	4.0	20.7	3 12	11 8.90	+ 4 29.8	15.400	16.389	0.3	21.5
3 22	10 59.47	- 8 20.2	2.471	3.431	5.2	20.8	3 22	11 7.11	+ 4 37.7	15.430	16.392	0.9	21.6
4 1	10 53.65	- 7 3.6	2.502	3.422	7.6	20.9	4 1	11 5.44	+ 4 44.9	15.490	16.395	1.5	21.6
4 11	10 49.26	- 5 48.3	2.559	3.412	10.2	21.1	4 11	11 3.97	+ 4 51.1	15.577	16.398	2.1	21.7
<b>50095</b>	2000 <i>AE</i> <sub>97</sub>		3 6.8 10°38	3°0/ 4.7 18			<b>462782</b>	2010 <i>GD</i> <sub>172</sub>		3 6.8 185°32			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>373050</b>	2011 <i>EB</i> <sub>72</sub>		3 6.8 108°76	1°3/ 5.4 18			<b>277836</b>	2006 <i>HC</i> <sub>63</sub>		3 6.8 180°93	0°1/ 6.6 17		
2 1	11 32.14	+ 6 13.1	2.078	2.904	12.6	20.9	2 1	11 31.62	+ 3 13.1	2.279	3.092	12.0	21.6
2 11	11 27.63	+ 7 3.4	2.008	2.913	9.3	20.7	2 11	11 27.17	+ 3 48.6	2.195	3.092	9.0	21.4
2 21	11 21.27	+ 8 3.6	1.962	2.923	5.6	20.4	2 21	11 20.99	+ 4 35.2	2.136	3.093	5.6	21.1
3 2	11 13.67	+ 9 8.3	1.944	2.932	1.9	20.2	3 2	11 13.61	+ 5 29.1	2.105	3.093	1.8	20.9
3 12	11 5.69	+10 10.8	1.955	2.941	3.0	20.3	3 12	11 5.81	+ 6 24.9	2.103	3.092	2.1	20.9
3 22	10 58.20	+11 5.2	1.996	2.950	6.8	20.6	3 22	10 58.39	+ 7 17.2	2.131	3.092	5.9	21.2
4 1	10 52.01	+11 47.0	2.063	2.959	10.3	20.8	4 1	10 52.10	+ 8 1.1	2.186	3.091	9.3	21.4
4 11	10 47.68	+12 13.6	2.152	2.967	13.3	21.0	4 11	10 47.52	+ 8 33.4	2.266	3.090	12.3	21.6
<b>200689</b>	2001 <i>UY</i> <sub>1</sub>		3 6.8 263°01	4°3/10.1 17			<b>495111</b>	2011 <i>UU</i> <sub>200</sub>		3 6.8 82°88	5°3/ 2.3 18		
2 1	11 36.65	- 7 10.6	1.759	2.537	16.5	21.2	2 1	11 37.43	+15 9.2	1.511	2.360	15.2	21.4
2 11	11 31.84	- 7 19.2	1.646	2.511	13.4	21.0	2 11	11 32.08	+16 30.3	1.466	2.382	11.3	21.2
2 21	11 24.40	- 7 6.3	1.553	2.484	9.7	20.7	2 21	11 24.17	+17 54.3	1.444	2.403	7.4	21.0
3 2	11 14.87	- 6 31.4	1.486	2.457	5.9	20.4	3 2	11 14.64	+19 10.7	1.448	2.424	5.3	21.0
3 12	11 4.22	- 5 37.4	1.446	2.429	4.4	20.2	3 12	11 4.78	+20 9.9	1.480	2.445	7.2	21.1
3 22	10 53.70	- 4 30.4	1.434	2.400	7.5	20.3	3 22	10 55.86	+20 46.0	1.538	2.465	10.7	21.4
4 1	10 44.57	- 3 18.6	1.448	2.370	11.9	20.5	4 1	10 48.92	+20 57.1	1.619	2.486	14.2	21.6
4 11	10 37.86	- 2 11.0	1.485	2.339	16.1	20.7	4 11	10 44.59	+20 45.0	1.719	2.506	17.2	21.9
<b>467096</b>	2016 <i>EA</i> <sub>19</sub>		3 6.8 163°65	6°4/28.9 18			<b>116515</b>	2004 <i>BF</i> <sub>40</sub>		3 6.8 96°16	0°7/ 6.0 18		
2 1	11 35.43	+21 16.4	2.004	2.846	12.3	20.8	2 1	11 31.19	+ 4 43.7	2.200	3.020	12.2	20.4
2 11	11 30.29	+22 40.3	1.943	2.849	9.5	20.6	2 11	11 26.86	+ 5 23.8	2.125	3.027	9.1	20.2
2 21	11 23.00	+24 2.4	1.907	2.852	7.1	20.5	2 21	11 20.78	+ 6 14.3	2.075	3.034	5.5	20.0
3 2	11 14.25	+25 13.9	1.899	2.855	6.4	20.5	3 2	11 13.53	+ 7 10.5	2.052	3.041	1.7	19.8
3 12	11 5.06	+26 7.1	1.919	2.857	8.0	20.6	3 12	11 5.91	+ 8 6.7	2.060	3.047	2.4	19.9
3 22	10 56.45	+26 37.2	1.965	2.859	10.6	20.7	3 22	10 58.73	+ 8 57.4	2.096	3.054	6.2	20.1
4 1	10 49.35	+26 42.9	2.035	2.861	13.4	20.9	4 1	10 52.74	+ 9 38.0	2.159	3.061	9.6	20.3
4 11	10 44.42	+26 26.0	2.124	2.862	15.8	21.1	4 11	10 48.49	+10 5.7	2.246	3.068	12.5	20.5
<b>158912</b>	2004 <i>RY</i> <sub>21</sub>		3 6.8 63°38	0°2/ 6.5 18			<b>293564</b>	2007 <i>HL</i> <sub>53</sub>		3 6.8 288°82	4°0/ 3.6 18		
2 1	11 30.25	+ 0 58.6	1.749	2.571	14.7	19.7	2 1	11 34.46	+10 44.4	1.371	2.224	16.2	20.9
2 11	11 26.50	+ 2 8.7	1.683	2.585	11.0	19.5	2 11	11 30.62	+11 48.9	1.286	2.206	12.2	20.6
2 21	11 20.68	+ 3 36.1	1.641	2.599	6.8	19.3	2 21	11 23.79	+13 6.1	1.223	2.188	7.7	20.3
3 2	11 13.49	+ 5 14.4	1.626	2.614	2.1	19.0	3 2	11 14.69	+14 26.9	1.185	2.170	4.1	20.0
3 12	11 5.91	+ 6 54.5	1.639	2.629	2.6	19.0	3 12	11 4.56	+15 39.6	1.173	2.151	6.3	20.1
3 22	10 58.90	+ 8 27.3	1.681	2.643	7.0	19.4	3 22	10 54.90	+16 34.1	1.186	2.133	11.2	20.3
4 1	10 53.36	+ 9 45.6	1.749	2.658	11.0	19.6	4 1	10 47.15	+17 3.9	1.222	2.115	16.0	20.5
4 11	10 49.89	+10 44.9	1.840	2.673	14.4	19.9	4 11	10 42.32	+17 7.2	1.276	2.097	20.2	20.7
<b>399628</b>	2004 <i>NM</i> <sub>23</sub>		3 6.8 193°63	2°2/ 8.9 16			<b>437278</b>	2013 <i>AV</i> <sub>1</sub>		3 6.8 41°29	7°3/ 16.5 17		
2 1	11 36.55	- 3 41.5	2.106	2.887	14.0	22.7	2 1	11 28.99	-21 45.3	2.457	3.135	14.8	21.1
2 11	11 31.06	- 3 22.1	2.012	2.885	10.9	22.5	2 11	11 25.26	-22 0.8	2.364	3.138	12.9	20.9
2 21	11 23.50	- 2 45.7	1.941	2.882	7.4	22.3	2 21	11 19.84	-21 52.8	2.290	3.140	10.8	20.8
3 2	11 14.46	- 1 54.4	1.898	2.878	3.7	22.0	3 2	11 13.24	-21 19.7	2.239	3.143	8.8	20.6
3 12	11 4.83	+ 0 53.1	1.884	2.873	2.6	21.9	3 12	11 6.21	-20 22.9	2.214	3.146	7.5	20.6
3 22	10 55.58	+ 0 12.0	1.901	2.867	6.0	22.2	3 22	10 59.50	-19 6.5	2.215	3.149	7.6	20.6
4 1	10 47.62	+ 1 14.4	1.945	2.859	9.8	22.4	4 1	10 53.88	-17 36.9	2.244	3.152	9.0	20.7
4 11	10 41.65	+ 2 8.5	2.014	2.851	13.2	22.6	4 11	10 49.89	-16 1.9	2.297	3.155	11.1	20.8
<b>505995</b>	2015 <i>GY</i> <sub>41</sub>		3 6.8 258°66	4°5/ 1.2 17			<b>43418</b>	2000 <i>XP</i> <sub>7</sub>		3 6.8 76°83	2°3/ 8.4 18		
2 1	11 30.84	+17 13.0	2.303	3.145	10.9	20.5	2 1	11 37.95	- 0 37.9	1.538	2.349	16.9	18.7
2 11	11 26.64	+18 26.0	2.232	3.143	8.2	20.3	2 11	11 32.64	- 0 53.9	1.464	2.355	13.1	18.5
2 21	11 20.67	+19 40.8	2.186	3.141	5.7	20.1	2 21	11 24.70	- 0 53.4	1.411	2.360	8.7	18.2
3 2	11 13.50	+20 50.5	2.169	3.138	4.6	20.1	3 2	11 14.89	- 0 38.5	1.383	2.366	4.0	17.9
3 12	11 5.91	+21 48.4	2.181	3.136	6.0	20.1	3 12	11 4.44	- 0 13.9	1.382	2.371	3.0	17.9
3 22	10 58.73	+22 29.6	2.220	3.133	8.7	20.3	3 22	10 54.66	+ 0 14.5	1.408	2.377	7.4	18.2
4 1	10 52.73	+22 51.7	2.284	3.131	11.4	20.5	4 1	10 46.71	+ 0 40.5	1.460	2.382	11.8	18.4
4 11	10 48.47	+22 54.5	2.370	3.128	13.8	20.6	4 11	10 41.40	+ 0 58.8	1.534	2.388	15.7	18.7
<b>296131</b>	2009 <i>BT</i> <sub>75</sub>		3 6.8 50°45	2°5/ 3.9 18			<b>423215</b>	2004 <i>RS</i> <sub>145</sub>		3 6.8 201°78	1°3/ 5.6 17		
2 1	11 29.94	+ 7 45.3	1.832	2.672	13.4	20.2	2 1	11 37.28	+ 8 22.8	2.381	3.196	11.5	21.9
2 11	11 26.11	+ 9 13.4	1.782	2.695	9.8	20.0	2 11	11 31.34	+ 8 40.7	2.292	3.192	8.6	21.7
2 21	11 20.36	+10 51.2	1.756	2.719	5.8	19.9	2 21	11 23.54	+ 9 4.5	2.229	3.187	5.3	21.5
3 2	11 13.37	+12 30.3	1.758	2.744	2.7	19.7	3 2	11 14.46	+ 9 30.6	2.194	3.182	1.9	21.2
3 12	11 6.10	+14 1.8	1.789	2.768	4.3	19.9	3 12	11 4.91	+ 9 54.3	2.191	3.176	2.8	21.3
3 22	10 59.45	+15 18.4	1.848	2.793	8.0	20.1	3 22	10 55.75	+10 11.8	2.217	3.170	6.3	21.5
4 1	10 54.23	+16 15.4	1.932	2.818	11.4	20.4	4 1	10 47.79	+10 20.0	2.272	3.163	9.7	21.7
4 11	10 50.97	+16 51.3	2.038	2.843	14.3	20.6	4 11	10 41.64	+10 17.3	2.350	3.155	12.6	21.9
<b>462643</b>	2009 <i>SX</i> <sub>127</sub>		3 6.8 87°62	3°0/ 9.9 18			<b>13664</b>	1997 <i>GE</i> <sub>17</sub>		3 6.8 24°98	1°0/ 6.2 18		
2 1	11 32.18	- 6 39.0	1.925	2.707	15.1	21.2	2 1	11 37.78	+ 6 11.1	1.266	2.109	17.9	18.8
2 11	11 27.78	- 6 16.6	1.853	2.723	11.9	21.0	2 11	11 32.99	+ 6 22.9	1.198	2.111	13.5	18.5
2 21	11 21.42	- 5 33.8	1.803	2.739	8.3	20.8	2 21	11 25.12	+ 6 48.0	1.151	2.114	8.3	18.2
3 2	11 13.74	- 4 33.3	1.780	2.754	4.6	20.7	3 2	11 15.06	+ 7 20.5	1.128	2.116	2.7	17.9
3 12	11 5.68	- 3 20.7	1.784	2.770	3.2	20.6	3 12	11 4.27	+ 7 52.4	1.130	2.119	3.6	17.9
3 22	10 58.15	- 2 3.1	1.817	2.786	6.0	20.8	3 22	10 54.30	+ 8 16.3	1.158	2.123	9.2	18.3
4 1	10 52.02	- 0 47.9	1.878	2.801	9.6	21.0	4 1	10 46.54	+ 8 26.9	1.210	2.126	14.3	18.6
4 11	10 47.88	+ 0 18.4	1.962	2.816	12.8	21.3	4 11	10 41.83	+ 8 21.3	1.281	2.130	18.5	18.8
<b>122087</b>	2000 <i>HL</i> <sub>46</sub>		3 6.8 278°79	1°1/ 7.6 18			<b>237324</b>	2009 <i>BM</i> <sub>97</sub>		3 6.8 184°76	2°0/ 4.8 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>495370</b>	2014 OZ <sub>215</sub>		3 6.8 168°20	0°5/ 7.2 18			<b>347422</b>	2012 SW <sub>58</sub>		3 6.8 127°68	2°5/ 9.7 17		
2 1	11 37.81	+ 2 1.0	1.824	2.634	14.7	22.2	2 1	11 33.03	- 4 56.8	2.717	3.484	11.5	21.2
2 11	11 32.19	+ 2 17.1	1.744	2.638	11.2	22.0	2 11	11 27.92	- 4 59.2	2.634	3.497	9.1	21.0
2 21	11 24.27	+ 2 47.0	1.687	2.641	7.1	21.8	2 21	11 21.31	- 4 48.7	2.577	3.509	6.3	20.9
3 2	11 14.74	+ 3 26.8	1.657	2.644	2.5	21.5	3 2	11 13.73	- 4 27.0	2.547	3.520	3.6	20.7
3 12	11 4.64	+ 4 10.7	1.656	2.646	2.3	21.5	3 12	11 5.82	- 3 56.7	2.547	3.532	2.6	20.7
3 22	10 55.09	+ 4 52.7	1.684	2.648	6.8	21.8	3 22	10 58.28	- 3 21.6	2.578	3.543	4.7	20.8
4 1	10 47.10	+ 5 27.3	1.738	2.649	11.0	22.0	4 1	10 51.74	- 2 45.7	2.637	3.553	7.5	21.0
4 11	10 41.39	+ 5 50.4	1.815	2.649	14.6	22.2	4 11	10 46.68	- 2 13.0	2.723	3.564	10.0	21.2
<b>25339</b>	1999 RE <sub>27</sub>		3 6.8 113°53	1°5/ 8.3 18			<b>125536</b>	2001 WB <sub>88</sub>		3 6.8 267°25	1°4/ 5.6 17		
2 1	11 33.08	- 8 15.0	1.234	2.040	20.6	18.5	2 1	11 34.72	+ 6 52.3	1.941	2.766	13.3	20.0
2 11	11 29.46	- 6 10.2	1.164	2.052	16.0	18.3	2 11	11 29.99	+ 7 25.7	1.842	2.747	10.0	19.8
2 21	11 22.93	- 3 23.8	1.114	2.064	10.5	18.0	2 21	11 23.02	+ 8 9.7	1.768	2.728	6.1	19.5
3 2	11 14.35	- 0 5.0	1.091	2.075	4.4	17.7	3 2	11 14.39	+ 8 59.5	1.720	2.708	2.1	19.2
3 12	11 5.09	+ 3 28.0	1.095	2.086	2.9	17.6	3 12	11 5.03	+ 9 48.5	1.702	2.688	3.2	19.2
3 22	10 56.63	+ 4 53.3	1.128	2.096	8.8	18.0	3 22	10 55.97	+ 10 30.5	1.712	2.668	7.6	19.4
4 1	10 50.27	+ 9 52.6	1.188	2.106	14.3	18.3	4 1	10 48.23	+ 11 0.4	1.748	2.647	11.6	19.6
4 11	10 46.81	+ 12 15.3	1.269	2.116	18.8	18.6	4 11	10 42.62	+ 11 15.0	1.806	2.626	15.2	19.8
<b>268609</b>	2006 BS <sub>266</sub>		3 6.8 1°51	6°6/ 3.2 18			<b>18120</b>	Lytvynenko		3 6.8 188°77	0°0/ 6.6 18		
2 1	11 42.06	+ 21 10.7	1.395	2.244	16.2	19.5	2 1	11 36.38	+ 2 39.5	2.031	2.838	13.5	20.2
2 11	11 36.00	+ 21 19.9	1.330	2.242	12.5	19.2	2 11	11 30.97	+ 3 16.4	1.944	2.838	10.2	20.0
2 21	11 26.83	+ 21 23.1	1.288	2.241	8.8	19.0	2 21	11 23.47	+ 4 6.7	1.881	2.837	6.3	19.7
3 2	11 15.59	+ 21 11.9	1.270	2.242	6.6	18.9	3 2	11 14.50	+ 5 5.9	1.847	2.834	2.1	19.4
3 12	11 3.80	+ 20 39.9	1.278	2.243	8.0	19.0	3 12	11 4.96	+ 6 7.8	1.842	2.831	2.3	19.4
3 22	10 53.05	+ 19 45.2	1.312	2.245	11.6	19.2	3 22	10 55.86	+ 7 5.9	1.867	2.827	6.6	19.7
4 1	10 44.63	+ 18 29.6	1.369	2.249	15.5	19.4	4 1	10 48.11	+ 7 54.6	1.919	2.823	10.5	19.9
4 11	10 39.31	+ 16 57.6	1.446	2.254	18.9	19.6	4 11	10 42.41	+ 8 30.0	1.995	2.817	13.9	20.1
<b>155811</b>	2000 WL <sub>20</sub>		3 6.8 200°30	1°3/ 5.5 17			<b>40808</b>	1999 TB <sub>53</sub>		3 6.8 96°73	1°9/ 8.6 18		
2 1	11 33.69	+ 6 49.9	2.134	2.956	12.4	20.8	2 1	11 32.23	- 2 18.7	1.993	2.792	14.0	19.5
2 11	11 28.86	+ 7 27.9	2.050	2.954	9.2	20.6	2 11	11 27.86	- 2 3.1	1.912	2.796	10.9	19.3
2 21	11 22.11	+ 8 15.1	1.992	2.951	5.6	20.4	2 21	11 21.53	- 1 31.5	1.854	2.800	7.2	19.1
3 2	11 14.02	+ 9 6.7	1.961	2.949	1.9	20.1	3 2	11 13.84	- 0 46.4	1.822	2.804	3.4	18.9
3 12	11 5.45	+ 9 56.7	1.960	2.946	3.0	20.2	3 12	11 5.69	+ 0 7.1	1.819	2.808	2.4	18.8
3 22	10 57.29	+ 10 39.6	1.988	2.942	6.8	20.4	3 22	10 57.98	+ 1 2.9	1.844	2.812	5.9	19.0
4 1	10 50.38	+ 11 11.2	2.042	2.938	10.4	20.7	4 1	10 51.59	+ 1 54.9	1.897	2.816	9.7	19.3
4 11	10 45.37	+ 11 28.8	2.120	2.934	13.5	20.8	4 11	10 47.13	+ 2 38.2	1.973	2.820	13.0	19.5
<b>99802</b>	2002 LQ <sub>11</sub>		3 6.8 277°72	5°1/ 1.9 18			<b>451754</b>	2013 EG <sub>101</sub>		3 6.8 46°38	5°6/ 2.8 18		
2 1	11 34.18	+ 13 55.8	1.676	2.524	14.0	19.8	2 1	11 35.96	+ 14 2.2	1.158	2.023	17.8	20.8
2 11	11 30.03	+ 15 21.8	1.583	2.499	10.6	19.6	2 11	11 31.60	+ 15 16.0	1.115	2.039	13.2	20.6
2 21	11 23.28	+ 16 57.3	1.514	2.474	7.0	19.3	2 21	11 24.16	+ 16 35.1	1.093	2.056	8.5	20.3
3 2	11 14.53	+ 18 32.9	1.472	2.449	5.1	19.1	3 2	11 14.72	+ 17 47.1	1.094	2.074	5.7	20.2
3 12	11 4.83	+ 19 57.5	1.457	2.423	7.1	19.2	3 12	11 4.87	+ 18 40.6	1.121	2.093	7.7	20.4
3 22	10 55.44	+ 21 1.9	1.469	2.397	11.1	19.3	3 22	10 56.15	+ 19 8.4	1.171	2.111	12.0	20.7
4 1	10 47.60	+ 21 40.5	1.504	2.370	15.2	19.5	4 1	10 49.81	+ 19 8.6	1.242	2.131	16.2	21.0
4 11	10 42.25	+ 21 51.9	1.559	2.344	18.8	19.7	4 11	10 46.53	+ 18 43.5	1.332	2.150	19.7	21.3
<b>285660</b>	2000 SZ <sub>61</sub>		3 6.8 219°30	1°0/ 7.8 17			<b>346082</b>	2007 UR <sub>131</sub>		3 6.8 197°16	3°0/ 10.2 17		
2 1	11 34.78	- 1 22.1	2.093	2.888	13.6	22.8	2 1	11 30.46	- 6 36.5	2.380	3.153	12.8	21.6
2 11	11 29.84	- 0 40.4	1.993	2.877	10.5	22.6	2 11	11 26.31	- 6 26.0	2.289	3.152	10.2	21.4
2 21	11 22.83	+ 0 18.6	1.917	2.865	6.8	22.3	2 21	11 20.49	- 5 59.0	2.220	3.151	7.2	21.3
3 2	11 14.30	+ 1 31.5	1.868	2.853	2.7	22.0	3 2	11 13.51	- 5 17.1	2.178	3.150	4.2	21.1
3 12	11 5.12	+ 2 52.1	1.849	2.839	2.1	21.9	3 12	11 6.09	- 4 23.8	2.165	3.149	3.0	21.0
3 22	10 56.25	+ 4 13.3	1.860	2.825	6.3	22.2	3 22	10 59.00	- 3 24.2	2.181	3.147	5.3	21.1
4 1	10 48.61	+ 5 27.8	1.900	2.810	10.3	22.4	4 1	10 52.96	- 2 24.0	2.225	3.146	8.4	21.3
4 11	10 42.92	+ 6 30.1	1.963	2.793	13.8	22.6	4 11	10 48.55	- 1 28.4	2.294	3.145	11.3	21.5
<b>312934</b>	2011 WS <sub>83</sub>		3 6.8 116°76	0°4/ 6.4 18			<b>347453</b>	2012 TS <sub>242</sub>		3 6.8 30°38	2°5/ 9.7 18		
2 1	11 35.73	+ 3 13.7	1.719	2.539	15.0	21.6	2 1	11 28.50	- 5 54.0	2.108	2.895	13.8	20.6
2 11	11 30.64	+ 3 58.8	1.652	2.553	11.2	21.4	2 11	11 25.00	- 5 20.6	2.025	2.899	10.9	20.4
2 21	11 23.28	+ 4 58.3	1.609	2.567	6.9	21.2	2 21	11 19.74	- 4 28.1	1.964	2.902	7.5	20.2
3 2	11 14.41	+ 6 6.3	1.593	2.581	2.2	20.9	3 2	11 13.27	- 3 19.1	1.929	2.907	4.0	20.0
3 12	11 5.09	+ 7 15.0	1.605	2.594	2.7	21.0	3 12	11 6.37	- 1 59.2	1.923	2.911	2.7	19.9
3 22	10 56.43	+ 8 17.0	1.645	2.606	7.3	21.3	3 22	10 59.86	- 0 35.1	1.946	2.915	5.6	20.1
4 1	10 49.41	+ 9 6.2	1.712	2.618	11.4	21.6	4 1	10 54.53	+ 0 45.9	1.996	2.920	9.1	20.3
4 11	10 44.68	+ 9 39.1	1.801	2.629	14.9	21.8	4 11	10 50.94	+ 1 57.6	2.071	2.925	12.2	20.5
<b>422369</b>	2014 SG <sub>250</sub>		3 6.8 202°66	1°6/ 8.3 17			<b>176028</b>	2000 SL <sub>91</sub>		3 6.8 169°62	3°2/ 11.4 18		
2 1	11 35.44	- 1 44.1	2.041	2.835	13.9	22.4	2 1	11 31.66	- 9 43.1	3.386	4.119	10.1	21.6
2 11	11 30.31	- 1 25.0	1.948	2.830	10.8	22.2	2 11	11 26.70	- 9 47.2	3.290	4.123	8.2	21.4
2 21	11 23.09	- 0 49.9	1.879	2.826	7.1	21.9	2 21	11 20.50	- 9 38.7	3.218	4.127	6.1	21.3
3 2	11 14.38	- 0 1.5	1.837	2.820	3.2	21.7	3 2	11 13.48	- 9 18.3	3.174	4.131	4.1	21.2
3 12	11 5.07	+ 0 55.0	1.824	2.814	2.3	21.6	3 12	11 6.15	- 8 47.9	3.161	4.134	3.2	21.1
3 22	10 56.13	+ 1 53.7	1.841	2.807	6.2	21.8	3 22	10 59.06	- 8 10.3	3.178	4.136	4.3	21.2
4 1	10 48.51	+ 2 48.2	1.885	2.799	10.1	22.1	4 1	10 52.73	- 7 29.1	3.225	4.138	6.4	21.3
4 11	10 42.89	+ 3 33.2	1.953	2.791	13.5	22.3	4 11	10 47.60	- 6 48.1	3.299	4.139	8.5	21.5
<b>456323</b>	2006 SY <sub>319</sub>		3 6.8 247°77	2°0/ 4.9 17			<b>131814</b>	2002 AV <sub>87</sub>		3 6.8 350°48	2°0/ 8.3 18		
2 1	11 34.85	+ 7 55											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>426713</b>	2013 <i>TE</i> <sub>41</sub>		3 6.8 143°32	1.2°/ 8.1 17			<b>19446</b>	Muroski		3 6.8 36°15	3°1/ 8.9 18		
2 1	11 32.17	- 1 0.6	2.165	2.964	13.1	21.5	2 1	11 35.04	- 2 19.9	1.194	2.022	19.8	17.9
2 11	11 27.67	- 0 33.0	2.083	2.969	10.0	21.3	2 11	11 30.91	- 2 35.7	1.138	2.036	15.4	17.7
2 21	11 21.36	+ 0 9.1	2.025	2.974	6.5	21.1	2 21	11 23.81	- 2 28.8	1.100	2.051	10.4	17.4
3 2	11 13.81	+ 1 2.6	1.995	2.979	2.7	20.9	3 2	11 14.69	- 2 1.8	1.085	2.067	5.2	17.2
3 12	11 5.83	+ 2 2.1	1.994	2.984	2.0	20.8	3 12	11 5.01	- 1 21.0	1.095	2.084	3.6	17.1
3 22	10 58.28	+ 3 1.9	2.022	2.988	5.7	21.1	3 22	10 56.26	- 0 35.1	1.129	2.101	8.1	17.4
4 1	10 51.93	+ 3 56.2	2.078	2.992	9.3	21.3	4 1	10 49.72	+ 0 7.4	1.187	2.120	13.0	17.8
4 11	10 47.38	+ 4 40.6	2.158	2.996	12.4	21.5	4 11	10 46.14	+ 0 39.3	1.265	2.138	17.2	18.1
<b>245989</b>	2006 <i>SG</i> <sub>255</sub>		3 6.8 175°72	3°7/ 2.4 18			<b>519385</b>	2011 <i>RZ</i> <sub>20</sub>		3 6.8 203°76	0°0/ 6.6 17		
2 1	11 34.02	+17 10.3	2.633	3.464	10.1	21.1	2 1	11 32.43	+ 4 5.8	2.554	3.362	11.0	22.1
2 11	11 28.76	+17 53.0	2.560	3.466	7.5	21.0	2 11	11 27.64	+ 4 20.7	2.466	3.360	8.3	21.9
2 21	11 21.89	+18 35.9	2.513	3.467	5.1	20.8	2 21	11 21.26	+ 4 44.0	2.403	3.359	5.1	21.7
3 2	11 13.96	+19 14.1	2.495	3.467	3.7	20.7	3 2	11 13.79	+ 5 12.8	2.369	3.357	1.7	21.4
3 12	11 5.70	+19 42.7	2.507	3.468	4.9	20.8	3 12	11 5.93	+ 5 43.2	2.365	3.354	1.8	21.4
3 22	10 57.84	+19 58.3	2.548	3.468	7.4	21.0	3 22	10 58.41	+ 6 11.2	2.391	3.352	5.3	21.7
4 1	10 51.09	+19 59.3	2.615	3.468	9.9	21.1	4 1	10 51.91	+ 6 33.4	2.445	3.350	8.5	21.9
4 11	10 45.96	+19 45.8	2.705	3.468	12.2	21.3	4 11	10 46.96	+ 6 47.1	2.523	3.347	11.3	22.0
<b>86788</b>	2000 <i>GX</i> <sub>98</sub>		3 6.8 216°80	3°2/ 9.5 18			<b>464917</b>	2005 <i>TW</i> <sub>141</sub>		3 6.8 109°76	3°3/ 3.8 18		
2 1	11 36.81	- 5 12.5	1.879	2.661	15.4	19.5	2 1	11 35.94	+12 24.9	1.894	2.730	13.2	22.0
2 11	11 31.61	- 5 10.1	1.782	2.653	12.3	19.3	2 11	11 30.67	+13 12.6	1.829	2.740	9.7	21.8
2 21	11 24.06	- 4 48.6	1.707	2.644	8.6	19.1	2 21	11 23.27	+14 5.2	1.789	2.750	6.1	21.6
3 2	11 14.78	- 4 9.2	1.658	2.634	4.7	18.8	3 2	11 14.47	+14 55.8	1.777	2.759	3.4	21.5
3 12	11 4.75	+ 3 15.9	1.638	2.624	3.4	18.7	3 12	11 5.26	+15 37.6	1.793	2.769	4.8	21.6
3 22	10 55.07	- 2 15.1	1.646	2.613	6.7	18.9	3 22	10 56.69	+16 5.6	1.838	2.778	8.3	21.8
4 1	10 46.81	- 1 14.1	1.681	2.601	10.7	19.1	4 1	10 49.65	+16 16.7	1.907	2.787	11.8	22.0
4 11	10 40.78	- 0 19.6	1.740	2.588	14.5	19.3	4 11	10 44.76	+16 10.7	1.999	2.796	14.8	22.3
<b>123055</b>	2000 <i>SR</i> <sub>298</sub>		3 6.8 233°76	3°8/ 9.9 18			<b>306454</b>	1999 <i>BG</i> <sub>27</sub>		3 6.8 109°25	0°7/ 7.5 18		
2 1	11 35.11	- 6 27.1	1.768	2.552	16.2	19.9	2 1	11 36.12	+ 0 49.4	2.007	2.810	13.8	21.4
2 11	11 30.47	- 6 28.0	1.673	2.543	13.0	19.7	2 11	11 30.61	+ 1 15.0	1.941	2.830	10.5	21.3
2 21	11 23.43	- 6 7.7	1.599	2.533	9.2	19.5	2 21	11 23.15	+ 1 54.0	1.898	2.850	6.6	21.1
3 2	11 14.59	- 5 27.2	1.550	2.523	5.4	19.2	3 2	11 14.41	+ 2 42.5	1.883	2.870	2.5	20.8
3 12	11 4.96	- 4 30.4	1.528	2.513	3.9	19.1	3 12	11 5.34	+ 3 34.8	1.898	2.888	2.0	20.8
3 22	10 55.69	- 3 23.9	1.534	2.502	7.0	19.2	3 22	10 56.87	+ 4 25.1	1.942	2.907	6.1	21.1
4 1	10 47.90	- 2 16.0	1.567	2.490	11.1	19.4	4 1	10 49.83	+ 5 8.1	2.014	2.924	9.7	21.4
4 11	10 42.42	- 1 14.4	1.622	2.479	14.9	19.7	4 11	10 44.80	+ 5 40.1	2.110	2.942	12.9	21.6
<b>503244</b>	2015 <i>HR</i> <sub>181</sub>		3 6.8 274°46	2°5/ 9.7 17			<b>184089</b>	2004 <i>GZ</i> <sub>58</sub>		3 6.8 311°27	2°4/ 4.8 18		
2 1	11 29.19	- 5 47.4	2.425	3.202	12.5	21.2	2 1	11 33.73	+ 8 40.0	1.664	2.503	14.5	20.3
2 11	11 25.44	- 5 23.2	2.318	3.186	9.9	21.0	2 11	11 29.42	+ 9 25.8	1.587	2.500	10.8	20.1
2 21	11 20.02	- 4 42.1	2.235	3.171	6.9	20.8	2 21	11 22.73	+10 21.9	1.533	2.496	6.6	19.8
3 2	11 13.40	- 3 45.7	2.179	3.155	3.8	20.5	3 2	11 14.35	+11 21.5	1.506	2.492	2.7	19.6
3 12	11 6.27	- 2 38.2	2.152	3.138	2.6	20.4	3 12	11 5.35	+12 16.5	1.506	2.489	4.3	19.6
3 22	10 59.37	- 1 25.0	2.154	3.122	5.2	20.6	3 22	10 56.89	+12 59.9	1.533	2.486	8.6	19.9
4 1	10 53.43	- 0 12.2	2.185	3.106	8.5	20.7	4 1	10 50.04	+13 26.8	1.585	2.482	12.7	20.1
4 11	10 49.07	+ 0 54.4	2.241	3.090	11.6	20.9	4 11	10 45.53	+13 34.9	1.658	2.479	16.3	20.3
<b>87504</b>	2000 <i>QB</i> <sub>174</sub>		3 6.8 122°98	2°0/ 8.8 18			<b>426179</b>	2012 <i>JK</i> <sub>18</sub>		3 6.8 285°54	1°9/ 8.5 17		
2 1	11 33.17	- 3 11.6	2.040	2.832	14.0	20.0	2 1	11 32.45	- 1 54.5	1.786	2.593	15.1	21.8
2 11	11 28.50	- 2 50.8	1.962	2.841	10.9	19.8	2 11	11 28.47	- 1 40.7	1.688	2.576	11.8	21.5
2 21	11 21.90	- 2 13.4	1.907	2.851	7.3	19.6	2 21	11 22.20	- 1 8.8	1.611	2.560	7.9	21.2
3 2	11 14.01	- 1 22.1	1.879	2.860	3.5	19.4	3 2	11 14.21	- 0 21.0	1.560	2.543	3.6	20.9
3 12	11 5.68	- 0 22.1	1.880	2.869	2.4	19.3	3 12	11 5.45	+ 0 37.4	1.537	2.527	2.6	20.8
3 22	10 57.83	+ 0 40.2	1.910	2.877	5.8	19.6	3 22	10 56.99	+ 1 39.4	1.542	2.510	6.8	21.0
4 1	10 51.29	+ 1 38.7	1.967	2.886	9.5	19.8	4 1	10 49.91	+ 2 37.6	1.572	2.494	11.2	21.3
4 11	10 46.67	+ 2 28.2	2.048	2.894	12.7	20.0	4 11	10 45.03	+ 3 25.7	1.625	2.478	15.1	21.5
<b>457336</b>	2008 <i>SY</i> <sub>194</sub>		3 6.8 169°23	0°6/ 7.4 18			<b>430233</b>	2013 <i>VW</i> <sub>21</sub>		3 6.8 169°93	4°4/ 12.3 17		
2 1	11 36.91	+ 0 28.8	1.936	2.738	14.3	22.3	2 1	11 31.83	-12 39.7	2.519	3.251	13.2	21.9
2 11	11 31.43	+ 1 6.2	1.854	2.744	10.9	22.1	2 11	11 27.27	-12 29.1	2.425	3.255	10.9	21.8
2 21	11 23.79	+ 1 59.3	1.796	2.749	6.9	21.9	2 21	11 21.07	-11 59.0	2.354	3.258	8.3	21.6
3 2	11 14.65	+ 3 3.7	1.766	2.752	2.5	21.6	3 2	11 13.75	-11 10.0	2.309	3.261	5.7	21.4
3 12	11 4.97	+ 4 12.9	1.765	2.755	2.2	21.6	3 12	11 6.01	-10 5.3	2.292	3.263	4.4	21.4
3 22	10 55.79	+ 5 19.9	1.794	2.757	6.6	21.9	3 22	10 58.60	- 8 49.8	2.305	3.265	5.6	21.4
4 1	10 48.07	+ 6 18.1	1.850	2.758	10.6	22.1	4 1	10 52.23	- 7 29.8	2.347	3.266	8.1	21.6
4 11	10 42.47	+ 7 3.1	1.930	2.758	14.0	22.3	4 11	10 47.45	- 6 11.7	2.415	3.267	10.8	21.8
<b>35679</b>	1998 <i>YK</i> <sub>3</sub>		3 6.8 271°33	2°4/ 8.5 18			<b>281816</b>	2009 <i>WZ</i> <sub>214</sub>		3 6.8 124°22	0°7/ 6.3 18		
2 1	11 35.77	- 1 48.4	1.539	2.349	16.9	18.6	2 1	11 37.40	+ 4 6.6	1.392	2.224	17.2	21.1
2 11	11 31.35	- 1 49.9	1.444	2.334	13.3	18.3	2 11	11 32.48	+ 4 43.0	1.324	2.231	12.9	20.8
2 21	11 24.17	- 1 32.2	1.370	2.319	8.9	18.0	2 21	11 24.74	+ 5 35.7	1.277	2.238	7.9	20.5
3 2	11 14.89	- 0 57.1	1.321	2.304	4.3	17.7	3 2	11 15.03	+ 6 38.1	1.256	2.244	2.5	20.2
3 12	11 4.64	- 0 9.7	1.299	2.288	3.1	17.6	3 12	11 4.67	+ 7 41.3	1.261	2.250	3.3	20.3
3 22	10 54.74	+ 0 42.9	1.303	2.272	7.7	17.8	3 22	10 55.07	+ 8 36.4	1.293	2.256	8.6	20.6
4 1	10 46.52	+ 1 32.5	1.333	2.257	12.6	18.0	4 1	10 47.48	+ 9 16.7	1.350	2.261	13.4	20.9
4 11	10 40.94	+ 2 12.2	1.384	2.241	17.0	18.3	4 11	10 42.70	+ 9 38.4	1.426	2.267	17.5	21.2
<b>239261</b>	2007 <i>EJ</i> <sub>52</sub>		3 6.8 318°53	1°2/ 7.6 18			<b>77805</b>	2001 <i>QG</i> <sub>122</sub>		3 6.8 207°26	2°3/ 3.9 17		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>318631</b>	2005 <i>KE</i> <sub>5</sub>		3 6.8 286°72	1°8/ 5.3 17			<b>496982</b>	2002 <i>RT</i> <sub>70</sub>		3 6.8 161°79	2°3/ 9.8 17		
2 1	11 33.76	+ 6 59.2	1.620	2.457	15.0	21.4	2 1	11 32.05	- 5 35.5	2.943	3.705	10.8	22.9
2 11	11 29.67	+ 7 41.8	1.529	2.441	11.2	21.2	2 11	11 27.17	- 5 22.9	2.853	3.712	8.6	22.7
2 21	11 23.04	+ 8 37.5	1.462	2.424	6.9	20.9	2 21	11 20.90	- 4 57.3	2.788	3.719	6.0	22.5
3 2	11 14.51	+ 9 40.2	1.420	2.408	2.5	20.5	3 2	11 13.71	- 4 20.5	2.751	3.724	3.4	22.4
3 12	11 5.16	+10 41.5	1.405	2.391	3.9	20.6	3 12	11 6.19	- 3 35.5	2.745	3.729	2.4	22.3
3 22	10 56.19	+11 33.5	1.418	2.375	8.7	20.8	3 22	10 58.97	- 2 46.2	2.769	3.734	4.4	22.5
4 1	10 48.81	+12 9.7	1.455	2.358	13.2	21.0	4 1	10 52.64	- 1 56.8	2.823	3.738	7.1	22.6
4 11	10 43.89	+12 26.8	1.513	2.342	17.2	21.3	4 11	10 47.66	- 1 11.4	2.903	3.741	9.5	22.8
<b>464405</b>	2016 <i>BO</i> <sub>18</sub>		3 6.8 340°11	3°1/ 8.8 17			<b>429956</b>	2012 <i>US</i> <sub>168</sub>		3 6.8 170°29	6°8/ 26.9 17		
2 1	11 32.13	- 1 51.6	1.262	2.092	18.8	20.6	2 1	11 34.86	+27 50.9	2.543	3.373	10.4	21.0
2 11	11 28.97	- 2 11.0	1.181	2.081	14.8	20.3	2 11	11 29.58	+29 3.5	2.485	3.375	8.5	20.9
2 21	11 22.85	- 2 9.6	1.120	2.071	10.1	20.0	2 21	11 22.51	+30 9.5	2.454	3.377	7.1	20.8
3 2	11 14.49	- 1 48.5	1.080	2.063	5.1	19.7	3 2	11 14.25	+31 2.1	2.451	3.378	7.0	20.8
3 12	11 5.18	- 1 12.7	1.066	2.055	3.6	19.5	3 12	11 5.64	+31 35.8	2.475	3.379	8.1	20.9
3 22	10 56.39	- 0 30.0	1.075	2.048	8.3	19.8	3 22	10 57.53	+31 47.9	2.525	3.380	10.0	21.0
4 1	10 49.56	+ 0 11.1	1.108	2.042	13.5	20.1	4 1	10 50.68	+31 38.2	2.598	3.381	12.0	21.1
4 11	10 45.67	+ 0 42.7	1.160	2.037	18.1	20.3	4 11	10 45.64	+31 8.5	2.692	3.382	13.8	21.3
<b>175377</b>	2005 <i>TA</i> <sub>108</sub>		3 6.8 308°39	2°2/ 9.1 18			<b>328325</b>	2008 <i>JW</i> <sub>15</sub>		3 6.8 290°87	0°9/ 7.6 17		
2 1	11 30.78	- 2 52.4	2.213	3.006	13.0	20.1	2 1	11 32.87	+ 0 35.1	1.704	2.522	15.2	21.6
2 11	11 26.76	- 2 51.4	2.113	2.993	10.2	19.9	2 11	11 28.84	+ 0 55.2	1.615	2.512	11.7	21.4
2 21	11 20.92	- 2 36.0	2.037	2.980	7.0	19.6	2 21	11 22.44	+ 1 32.0	1.547	2.502	7.5	21.1
3 2	11 13.75	- 2 7.8	1.988	2.967	3.6	19.4	3 2	11 14.33	+ 2 22.2	1.506	2.492	2.9	20.8
3 12	11 6.02	- 1 30.2	1.967	2.955	2.5	19.3	3 12	11 5.49	+ 3 19.4	1.491	2.482	2.4	20.7
3 22	10 58.58	- 0 48.1	1.975	2.943	5.6	19.5	3 22	10 57.06	+ 4 16.5	1.504	2.472	7.1	21.0
4 1	10 52.23	- 0 6.6	2.009	2.931	9.1	19.7	4 1	10 50.12	+ 5 6.3	1.543	2.462	11.6	21.2
4 11	10 47.63	+ 0 29.3	2.068	2.919	12.4	19.8	4 11	10 45.45	+ 5 43.5	1.604	2.453	15.5	21.4
<b>173056</b>	2006 <i>SP</i> <sub>8</sub>		3 6.8 140°65	4°6/ 29.6 17			<b>194194</b>	2001 <i>TL</i> <sub>81</sub>		3 6.8 45°90	5°2/ 10.9 18		
2 1	11 32.19	+20 10.7	2.687	3.522	9.7	20.3	2 1	11 34.44	- 8 27.5	1.418	2.210	19.1	20.0
2 11	11 27.41	+21 16.8	2.625	3.530	7.4	20.2	2 11	11 30.37	- 8 42.5	1.340	2.212	15.5	19.8
2 21	11 21.08	+22 21.6	2.590	3.537	5.4	20.1	2 21	11 23.55	- 8 31.3	1.282	2.214	11.3	19.6
3 2	11 13.74	+23 19.1	2.584	3.544	4.7	20.0	3 2	11 14.71	- 7 53.7	1.247	2.216	7.1	19.3
3 12	11 6.11	+24 4.3	2.607	3.551	5.9	20.1	3 12	11 5.10	- 6 54.2	1.237	2.219	5.3	19.2
3 22	10 58.88	+24 33.5	2.659	3.557	8.0	20.2	3 22	10 56.09	- 5 41.1	1.252	2.221	8.0	19.4
4 1	10 52.73	+24 45.4	2.735	3.563	10.3	20.4	4 1	10 48.94	- 4 24.6	1.292	2.224	12.3	19.6
4 11	10 48.14	+24 40.3	2.834	3.569	12.3	20.6	4 11	10 44.51	- 3 14.6	1.354	2.226	16.3	19.9
<b>390411</b>	2013 <i>YU</i> <sub>19</sub>		3 6.8 107°61	3°3/ 2.4 18			<b>148925</b>	2001 <i>XD</i> <sub>75</sub>		3 6.8 121°43	2°4/ 4.5 18		
2 1	11 32.04	+13 55.0	2.637	3.467	10.1	20.7	2 1	11 34.32	+ 9 17.1	1.959	2.791	13.0	20.5
2 11	11 27.22	+15 10.9	2.582	3.490	7.4	20.5	2 11	11 29.44	+10 11.4	1.892	2.800	9.6	20.3
2 21	11 20.92	+16 29.2	2.555	3.512	4.8	20.4	2 21	11 22.53	+11 13.6	1.849	2.810	5.8	20.0
3 2	11 13.68	+17 44.2	2.557	3.533	3.3	20.3	3 2	11 14.29	+12 17.2	1.833	2.819	2.6	19.8
3 12	11 6.20	+18 50.0	2.590	3.554	4.6	20.4	3 12	11 5.63	+13 15.2	1.847	2.828	4.0	20.0
3 22	10 59.17	+19 42.4	2.652	3.574	7.0	20.6	3 22	10 57.53	+14 1.5	1.890	2.837	7.7	20.2
4 1	10 53.20	+20 18.9	2.742	3.594	9.5	20.8	4 1	10 50.85	+14 32.4	1.958	2.845	11.2	20.4
4 11	10 48.76	+20 38.9	2.854	3.614	11.7	21.0	4 11	10 46.20	+14 46.1	2.049	2.853	14.2	20.6
<b>372556</b>	2009 <i>UG</i> <sub>3</sub>		3 6.8 26°05	6°5/ 11.9 18			<b>448129</b>	2008 <i>SA</i> <sub>18</sub>		3 6.8 44°30	2°6/ 8.4 18		
2 1	11 34.36	-11 0.5	1.679	2.446	17.6	20.4	2 1	11 37.55	- 0 45.3	1.151	1.982	20.2	20.5
2 11	11 29.93	-11 46.2	1.600	2.450	14.6	20.2	2 11	11 32.95	- 1 3.3	1.093	1.995	15.6	20.2
2 21	11 23.08	-12 9.3	1.541	2.455	11.2	20.0	2 21	11 25.18	- 1 0.0	1.055	2.009	10.3	20.0
3 2	11 14.50	-12 8.3	1.506	2.460	8.0	19.8	3 2	11 15.23	- 0 38.3	1.039	2.023	4.8	19.7
3 12	11 5.27	-11 44.9	1.496	2.466	6.5	19.7	3 12	11 4.66	- 0 4.6	1.048	2.038	3.4	19.7
3 22	10 56.54	-11 4.1	1.513	2.472	8.0	19.8	3 22	10 55.08	+ 0 32.9	1.082	2.054	8.5	20.0
4 1	10 49.42	-10 13.3	1.554	2.479	11.1	20.0	4 1	10 47.87	+ 1 5.8	1.139	2.070	13.6	20.3
4 11	10 44.69	- 9 21.0	1.619	2.486	14.4	20.2	4 11	10 43.82	+ 1 27.8	1.215	2.086	17.9	20.7
<b>423739</b>	2006 <i>BE</i> <sub>232</sub>		3 6.8 261°37	2°9/ 3.9 17			<b>416949</b>	2005 <i>SK</i> <sub>165</sub>		3 6.8 160°67	3°3/ 4.1 18		
2 1	11 32.77	+10 39.3	1.935	2.773	12.9	21.4	2 1	11 40.44	+14 11.5	2.051	2.877	12.7	21.1
2 11	11 28.40	+11 34.4	1.859	2.771	9.5	21.2	2 11	11 33.95	+14 35.5	1.977	2.881	9.5	20.9
2 21	11 21.97	+12 37.0	1.806	2.768	5.9	21.0	2 21	11 25.30	+15 1.5	1.928	2.885	6.0	20.7
3 2	11 14.10	+13 40.5	1.782	2.766	3.0	20.8	3 2	11 15.21	+15 23.9	1.908	2.889	3.4	20.5
3 12	11 5.72	+14 37.5	1.785	2.763	4.5	20.9	3 12	11 4.69	+15 37.3	1.917	2.892	4.7	20.6
3 22	10 57.81	+15 21.9	1.817	2.761	8.2	21.1	3 22	10 54.78	+15 38.0	1.955	2.895	8.0	20.8
4 1	10 51.28	+15 49.7	1.874	2.759	11.7	21.3	4 1	10 46.40	+15 24.3	2.021	2.897	11.4	21.0
4 11	10 46.78	+15 59.3	1.953	2.756	14.8	21.5	4 11	10 40.21	+14 56.5	2.108	2.899	14.3	21.2
<b>343439</b>	2010 <i>DW</i> <sub>77</sub>		3 6.8 224°76	0°3/ 6.5 17			<b>171338</b>	2006 <i>JZ</i> <sub>60</sub>		3 6.8 161°52	0°1/ 6.9 18		
2 1	11 34.53	+ 5 17.6	2.185	3.000	12.4	20.5	2 1	11 36.18	+ 2 7.5	2.014	2.821	13.6	21.4
2 11	11 29.47	+ 5 28.1	2.101	2.999	9.3	20.3	2 11	11 30.82	+ 2 43.1	1.935	2.828	10.3	21.1
2 21	11 22.51	+ 5 47.3	2.041	2.998	5.7	20.1	2 21	11 23.42	+ 3 32.2	1.880	2.834	6.4	20.9
3 2	11 14.26	+ 6 11.7	2.009	2.997	1.8	19.8	3 2	11 14.61	+ 4 30.2	1.852	2.840	2.2	20.7
3 12	11 5.55	+ 6 36.8	2.007	2.996	2.2	19.8	3 12	11 5.32	+ 5 31.1	1.855	2.844	2.2	20.7
3 22	10 57.25	+ 6 58.4	2.034	2.995	6.1	20.1	3 22	10 56.52	+ 6 28.5	1.886	2.848	6.4	20.9
4 1	10 50.20	+ 7 12.7	2.088	2.993	9.7	20.3	4 1	10 49.11	+ 7 16.8	1.945	2.851	10.3	21.2
4 11	10 45.00	+ 7 17.3	2.166	2.992	12.8	20.5	4 11	10 43.72	+ 7 52.2	2.028	2.854	13.6	21.4
<b>121216</b>	1999 <i>RP</i> <sub>9</sub>		3 6.8 238°51	0°1/ 6.7 18			<b>134268</b>	2006 <i>BJ</i> <sub>111</sub>		3 6.8 265°92			



EPHEMERIDES

3 6.8

3 6.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>181071</b>	2005 QH <sub>19</sub>		3 6.8 215°80	0°0/ 6.8 17			<b>354855</b>	2005 YY <sub>202</sub>		3 6.8 337°18	4°0/ 9.5 16		
2 1	11 29.90	+ 2 24.0	2.747	3.551	10.5	21.2	2 1	11 34.10	- 4 16.5	1.285	2.102	19.3	21.3
2 11	11 25.73	+ 3 0.7	2.653	3.546	7.9	21.0	2 11	11 30.43	- 4 36.9	1.206	2.096	15.4	21.1
2 21	11 20.11	+ 3 47.6	2.586	3.540	4.9	20.8	2 21	11 23.78	- 4 33.9	1.145	2.091	10.8	20.8
3 2	11 13.50	+ 4 41.4	2.547	3.534	1.6	20.6	3 2	11 14.87	- 4 8.1	1.108	2.086	6.0	20.5
3 12	11 6.50	+ 5 37.7	2.538	3.528	1.7	20.6	3 12	11 5.03	- 3 24.3	1.095	2.082	4.3	20.4
3 22	10 59.77	+ 6 31.9	2.560	3.521	5.0	20.8	3 22	10 55.76	- 2 30.3	1.106	2.078	8.3	20.6
4 1	10 53.93	+ 7 19.7	2.610	3.515	8.0	21.0	4 1	10 48.48	- 1 35.8	1.141	2.075	13.3	20.8
4 11	10 49.48	+ 7 58.0	2.686	3.508	10.7	21.1	4 11	10 44.14	- 0 49.6	1.197	2.072	17.8	21.1
<b>297735</b>	2001 WZ <sub>80</sub>		3 6.8 185°99	0°9/ 6.0 18			<b>117068</b>	2004 KP <sub>12</sub>		3 6.8 210°69	1°6/ 8.6 18		
2 1	11 37.25	+ 4 48.9	1.999	2.813	13.5	22.1	2 1	11 31.15	- 3 54.9	2.009	2.802	14.1	20.4
2 11	11 31.71	+ 5 33.0	1.915	2.813	10.1	21.9	2 11	11 27.19	- 3 5.4	1.918	2.799	11.0	20.1
2 21	11 24.02	+ 6 29.2	1.855	2.813	6.2	21.7	2 21	11 21.26	- 1 55.8	1.850	2.795	7.3	19.9
3 2	11 14.83	+ 7 32.1	1.823	2.811	2.0	21.4	3 2	11 13.94	- 0 29.7	1.809	2.791	3.3	19.6
3 12	11 5.08	+ 8 35.1	1.822	2.809	2.8	21.4	3 12	11 6.07	+ 1 6.3	1.797	2.787	2.2	19.6
3 22	10 55.78	+ 9 31.6	1.849	2.806	7.0	21.7	3 22	10 58.57	+ 2 44.0	1.815	2.783	6.0	19.8
4 1	10 47.88	+ 10 16.2	1.904	2.802	10.9	21.9	4 1	10 52.32	+ 4 15.3	1.860	2.778	10.0	20.0
4 11	10 42.07	+ 10 45.8	1.982	2.797	14.2	22.1	4 11	10 47.97	+ 5 33.8	1.930	2.773	13.4	20.2
<b>194367</b>	2001 UR <sub>187</sub>		3 6.8 230°80	3°1/ 4.4 18			<b>158613</b>	2003 AS <sub>49</sub>		3 6.9 49°53	0°5/ 6.5 18		
2 1	11 38.45	+ 10 34.5	1.685	2.519	14.6	21.3	2 1	11 36.88	+ 4 21.6	1.208	2.051	18.6	20.3
2 11	11 33.10	+ 11 21.5	1.600	2.510	10.9	21.0	2 11	11 32.35	+ 4 41.0	1.149	2.062	14.0	20.1
2 21	11 25.13	+ 12 17.2	1.538	2.499	6.8	20.7	2 21	11 24.78	+ 5 16.7	1.111	2.073	8.6	19.8
3 2	11 15.26	+ 13 14.6	1.503	2.488	3.3	20.5	3 2	11 15.13	+ 6 2.5	1.097	2.085	2.8	19.5
3 12	11 4.60	+ 14 5.2	1.497	2.476	4.9	20.6	3 12	11 4.88	+ 6 49.4	1.107	2.097	3.3	19.6
3 22	10 54.43	+ 14 42.0	1.517	2.464	9.2	20.8	3 22	10 55.57	+ 7 28.9	1.143	2.110	9.0	19.9
4 1	10 45.94	+ 15 0.5	1.563	2.451	13.4	21.0	4 1	10 48.52	+ 7 54.5	1.202	2.123	14.0	20.2
4 11	10 39.99	+ 14 59.3	1.630	2.438	17.1	21.2	4 11	10 44.50	+ 8 2.9	1.281	2.136	18.2	20.5
<b>241891</b>	2001 WD <sub>6</sub>		3 6.8 247°25	5°4/ 13.7 18			<b>317489</b>	2002 SD <sub>8</sub>		3 6.9 229°90	0°9/ 6.0 16		
2 1	11 30.06	- 15 57.6	2.623	3.335	13.2	20.4	2 1	11 36.40	+ 5 53.6	2.004	2.823	13.3	21.3
2 11	11 26.06	- 15 58.7	2.514	3.323	11.2	20.2	2 11	11 31.18	+ 6 22.9	1.911	2.812	10.0	21.1
2 21	11 20.43	- 15 39.6	2.425	3.311	8.9	20.0	2 21	11 23.77	+ 7 2.7	1.842	2.801	6.1	20.8
3 2	11 13.63	- 14 59.9	2.362	3.298	6.7	19.9	3 2	11 14.79	+ 7 48.6	1.801	2.789	2.0	20.5
3 12	11 6.33	- 14 1.4	2.326	3.285	5.4	19.8	3 12	11 5.16	+ 8 34.3	1.789	2.777	2.8	20.6
3 22	10 59.25	- 12 48.3	2.319	3.271	6.1	19.8	3 22	10 55.90	+ 9 14.3	1.807	2.764	7.1	20.8
4 1	10 53.11	- 11 26.3	2.340	3.258	8.2	19.9	4 1	10 47.97	+ 9 43.5	1.851	2.751	11.0	21.0
4 11	10 48.49	- 10 2.3	2.387	3.244	10.7	20.0	4 11	10 42.13	+ 9 59.1	1.918	2.737	14.5	21.2
<b>206829</b>	2004 EC <sub>40</sub>		3 6.8 20°27	2°8/ 3.5 17			<b>124470</b>	2001 RL <sub>4</sub>		3 6.9 125°11	2°9/ 8.9 18		
2 1	11 27.21	+ 6 30.7	1.776	2.618	13.6	19.3	2 1	11 39.03	- 3 1.1	1.600	2.398	17.0	20.4
2 11	11 24.38	+ 8 24.7	1.708	2.624	10.0	19.1	2 11	11 33.42	- 3 8.5	1.527	2.409	13.3	20.2
2 21	11 19.55	+ 10 33.2	1.665	2.630	6.0	18.9	2 21	11 25.23	- 2 57.1	1.476	2.419	9.0	20.0
3 2	11 13.35	+ 12 46.6	1.651	2.637	2.9	18.7	3 2	11 15.27	- 2 28.9	1.449	2.429	4.6	19.7
3 12	11 6.68	+ 14 53.6	1.666	2.644	4.8	18.8	3 12	11 4.71	- 1 48.7	1.451	2.439	3.2	19.7
3 22	10 56.49	+ 16 44.4	1.709	2.652	8.7	19.1	3 22	10 54.82	- 1 3.4	1.480	2.448	7.1	19.9
4 1	10 55.66	+ 18 12.1	1.777	2.660	12.4	19.3	4 1	10 46.73	- 0 20.0	1.535	2.456	11.4	20.2
4 11	10 52.82	+ 19 13.9	1.867	2.669	15.5	19.5	4 11	10 41.21	+ 0 15.5	1.612	2.464	15.2	20.4
<b>166886</b>	Ybl		3 6.8 21°53	6°9/ 1.7 18			<b>364183</b>	2006 PJ <sub>2</sub>		3 6.9 218°10	0°6/ 7.5 16		
2 1	11 37.56	+ 22 35.9	1.613	2.463	14.4	19.3	2 1	11 35.84	+ 1 6.9	2.054	2.857	13.5	22.5
2 11	11 32.20	+ 23 13.6	1.563	2.473	11.2	19.1	2 11	11 30.70	+ 1 30.8	1.959	2.849	10.4	22.0
2 21	11 24.34	+ 23 45.4	1.536	2.485	8.2	19.0	2 21	11 23.45	+ 2 8.7	1.887	2.840	6.6	22.3
3 2	11 14.89	+ 24 3.2	1.535	2.497	6.9	18.9	3 2	11 14.68	+ 2 57.2	1.843	2.830	2.5	21.8
3 12	11 5.14	+ 24 0.5	1.559	2.511	8.3	19.0	3 12	11 5.28	+ 3 50.9	1.829	2.819	2.1	21.7
3 22	10 56.31	+ 23 35.0	1.609	2.525	11.2	19.2	3 22	10 56.22	+ 4 43.8	1.844	2.808	6.3	22.0
4 1	10 49.44	+ 22 47.5	1.682	2.540	14.3	19.5	4 1	10 48.44	+ 5 30.1	1.886	2.796	10.3	22.2
4 11	10 45.12	+ 21 41.6	1.776	2.556	17.0	19.7	4 11	10 42.67	+ 6 5.4	1.952	2.784	13.8	22.4
<b>499337</b>	2009 WA <sub>209</sub>		3 6.8 106°43	3°7/ 3.3 18			<b>381330</b>	2007 VO <sub>323</sub>		3 6.9 60°32	4°5/ 11.3 17		
2 1	11 34.77	+ 13 36.3	1.989	2.827	12.6	21.4	2 1	11 32.98	- 9 11.6	2.150	2.910	14.4	20.5
2 11	11 29.76	+ 14 30.5	1.925	2.836	9.3	21.2	2 11	11 28.37	- 9 32.8	2.069	2.919	11.7	20.3
2 21	11 22.74	+ 15 28.5	1.886	2.845	5.9	21.0	2 21	11 21.89	- 9 36.0	2.010	2.928	8.7	20.1
3 2	11 14.38	+ 16 23.6	1.874	2.854	3.7	20.9	3 2	11 14.13	- 9 21.4	1.977	2.937	5.8	20.0
3 12	11 5.63	+ 17 8.8	1.891	2.863	5.1	21.0	3 12	11 5.91	- 8 51.5	1.971	2.947	4.5	19.9
3 22	10 57.46	+ 17 39.3	1.936	2.871	8.4	21.2	3 22	10 58.12	- 8 10.8	1.994	2.956	6.1	20.0
4 1	10 50.73	+ 17 52.4	2.007	2.879	11.6	21.4	4 1	10 51.58	- 7 25.0	2.044	2.966	9.0	20.2
4 11	10 46.04	+ 17 47.8	2.099	2.888	14.4	21.6	4 11	10 46.88	- 6 40.1	2.118	2.975	11.9	20.4
<b>368770</b>	2005 WS <sub>14</sub>		3 6.8 191°29	1°0/ 7.8 17			<b>431505</b>	2007 TR <sub>145</sub>		3 6.9 60°47	5°4/ 13.5 18		
2 1	11 33.63	- 0 5.4	2.147	2.947	13.1	22.3	2 1	11 29.87	- 15 8.5	2.101	2.835	15.5	20.3
2 11	11 28.88	+ 0 18.4	2.059	2.946	10.1	22.1	2 11	11 26.03	- 14 51.3	2.030	2.856	12.8	20.2
2 21	11 22.22	+ 0 56.2	1.995	2.945	6.5	21.8	2 21	11 20.41	- 14 9.5	1.978	2.877	9.9	20.0
3 2	11 14.23	+ 1 44.9	1.958	2.943	2.6	21.6	3 2	11 13.61	- 13 4.2	1.951	2.899	7.0	19.9
3 12	11 5.74	+ 2 39.3	1.951	2.941	2.0	21.5	3 12	11 6.49	- 11 39.7	1.952	2.920	5.4	19.8
3 22	10 57.64	+ 3 33.7	1.973	2.938	5.9	21.8	3 22	10 59.86	- 10 3.1	1.981	2.941	6.3	19.9
4 1	10 50.75	+ 4 22.6	2.022	2.935	9.6	22.0	4 1	10 54.50	- 8 22.5	2.037	2.962	8.8	20.1
4 11	10 45.72	+ 5 1.6	2.096	2.932	12.8	22.2	4 11	10 50.94	- 6 46.0	2.119	2.984	11.6	20.3
<b>432180</b>	2009 CV <sub>44</sub>		3 6.8 179°41	1°7/ 8.7 17			<b>30539</b>	Raissamuller		3 6.9 215°06	2°1/ 4.9 18		
2 1	11 33.52	- 1 28.7</											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>362620</b>	2011 <i>SG</i> <sub>38</sub>		3 6.9 87°83	0°9/ 6.1 18			<b>456918</b>	2007 <i>XL</i> <sub>29</sub>		3 6.9 93°31	4°2/10.5 18		
2 1	11 35.55	+ 4 1.5	1.514	2.344	16.2	21.0	2 1	11 34.45	- 7 42.7	1.626	2.411	17.3	21.6
2 11	11 30.82	+ 4 50.9	1.453	2.360	12.1	20.8	2 11	11 30.00	- 7 42.5	1.551	2.420	13.9	21.4
2 21	11 23.59	+ 5 55.6	1.414	2.375	7.3	20.6	2 21	11 23.14	- 7 18.7	1.497	2.429	9.9	21.1
3 2	11 14.71	+ 7 8.6	1.402	2.390	2.3	20.3	3 2	11 14.61	- 6 32.6	1.467	2.439	6.0	20.9
3 12	11 5.36	+ 8 20.9	1.417	2.405	3.2	20.4	3 12	11 5.50	- 5 29.4	1.464	2.448	4.3	20.9
3 22	10 56.78	+ 9 23.9	1.459	2.420	8.0	20.7	3 22	10 56.98	- 4 16.7	1.488	2.457	7.0	21.0
4 1	10 50.01	+10 11.5	1.526	2.435	12.4	21.0	4 1	10 50.12	- 3 3.4	1.538	2.466	11.0	21.3
4 11	10 45.75	+10 40.4	1.615	2.449	16.1	21.3	4 11	10 45.65	- 1 57.5	1.611	2.474	14.6	21.5
<b>205814</b>	2002 <i>CF</i> <sub>209</sub>		3 6.9 112°80	0°6/ 6.3 18			<b>132718</b>	Kemény		3 6.9 203°56	0°7/ 6.1 18 R		
2 1	11 38.39	+ 4 35.2	1.684	2.504	15.3	20.9	2 1	11 32.83	+ 5 28.0	2.238	3.056	12.1	20.6
2 11	11 32.71	+ 5 6.8	1.620	2.521	11.4	20.7	2 11	11 28.22	+ 5 59.2	2.153	3.054	9.0	20.4
2 21	11 24.66	+ 5 50.8	1.579	2.537	7.0	20.4	2 21	11 21.79	+ 6 39.9	2.094	3.052	5.5	20.2
3 2	11 15.05	+ 6 41.8	1.565	2.553	2.2	20.2	3 2	11 14.13	+ 7 25.9	2.062	3.050	1.8	19.9
3 12	11 5.01	+ 7 32.5	1.579	2.568	2.8	20.2	3 12	11 6.00	+ 8 11.9	2.060	3.048	2.4	20.0
3 22	10 55.71	+ 8 16.4	1.622	2.583	7.4	20.5	3 22	10 58.26	+ 8 52.8	2.087	3.045	6.2	20.2
4 1	10 48.15	+ 8 48.3	1.691	2.597	11.6	20.8	4 1	10 51.69	+ 9 24.4	2.141	3.043	9.7	20.4
4 11	10 42.98	+ 9 5.5	1.782	2.610	15.0	21.1	4 11	10 46.89	+ 9 43.9	2.219	3.040	12.7	20.6
<b>241042</b>	2006 <i>RQ</i> <sub>16</sub>		3 6.9 232°90	0°5/ 6.2 17			<b>218026</b>	2001 <i>YN</i> <sub>89</sub>		3 6.9 160°35	3°9/11.2 16 R		
2 1	11 31.32	+ 4 43.5	2.666	3.477	10.6	21.6	2 1	11 35.58	- 9 36.8	2.617	3.357	12.6	21.2
2 11	11 26.88	+ 5 20.9	2.569	3.466	7.9	21.4	2 11	11 30.02	- 9 45.1	2.527	3.365	10.2	21.0
2 21	11 20.89	+ 6 7.6	2.497	3.454	4.8	21.2	2 21	11 22.80	- 9 37.5	2.460	3.373	7.6	20.8
3 2	11 13.81	+ 6 59.8	2.454	3.442	1.6	20.9	3 2	11 14.44	- 9 14.5	2.421	3.380	5.0	20.7
3 12	11 6.28	+ 7 52.9	2.442	3.429	2.1	21.0	3 12	11 5.68	- 8 38.4	2.411	3.386	3.9	20.6
3 22	10 59.01	+ 8 42.2	2.459	3.417	5.5	21.2	3 22	10 57.27	- 7 53.3	2.431	3.391	5.4	20.7
4 1	10 52.67	+ 9 23.7	2.505	3.403	8.6	21.3	4 1	10 49.91	- 7 4.0	2.481	3.395	7.9	20.9
4 11	10 47.79	+ 9 54.3	2.576	3.390	11.4	21.5	4 11	10 44.16	- 6 15.7	2.556	3.399	10.5	21.1
<b>402873</b>	2007 <i>RS</i> <sub>212</sub>		3 6.9 160°98	1°4/ 5.6 18			<b>401971</b>	2002 <i>TE</i> <sub>195</sub>		3 6.9 53°96	3°9/ 4.2 18		
2 1	11 37.42	+ 6 39.0	2.018	2.836	13.2	22.2	2 1	11 41.37	+12 34.9	1.354	2.200	16.9	20.6
2 11	11 31.76	+ 7 21.6	1.942	2.843	9.8	22.0	2 11	11 35.02	+13 17.0	1.321	2.236	12.4	20.4
2 21	11 24.01	+ 8 14.0	1.891	2.850	6.0	21.7	2 21	11 26.01	+14 3.2	1.310	2.272	7.6	20.2
3 2	11 14.85	+ 9 10.6	1.868	2.856	2.1	21.5	3 2	11 15.44	+14 44.7	1.325	2.309	4.0	20.1
3 12	11 5.22	+10 5.0	1.875	2.861	3.1	21.6	3 12	11 4.79	+15 13.5	1.367	2.345	5.6	20.3
3 22	10 56.12	+10 51.2	1.912	2.865	7.1	21.8	3 22	10 55.40	+15 25.2	1.435	2.381	9.7	20.6
4 1	10 48.44	+11 24.8	1.975	2.869	10.8	22.0	4 1	10 48.28	+15 18.1	1.527	2.418	13.5	20.9
4 11	10 42.84	+11 43.5	2.062	2.872	13.9	22.3	4 11	10 43.96	+14 53.6	1.639	2.453	16.7	21.2
<b>243229</b>	2007 <i>VO</i> <sub>90</sub>		3 6.9 41°87	3°1/ 3.8 18			<b>323475</b>	2004 <i>LQ</i> <sub>5</sub>		3 6.9 218°68	0°3/ 6.5 17		
2 1	11 32.28	+12 3.2	1.998	2.837	12.4	20.3	2 1	11 33.50	+ 3 25.8	2.447	3.253	11.5	21.7
2 11	11 27.92	+12 51.2	1.932	2.845	9.2	20.1	2 11	11 28.65	+ 4 8.8	2.349	3.243	8.7	21.5
2 21	11 21.62	+13 44.2	1.892	2.853	5.7	19.9	2 21	11 22.06	+ 5 3.2	2.277	3.232	5.4	21.3
3 2	11 14.04	+14 35.9	1.879	2.861	3.2	19.8	3 2	11 14.23	+ 6 4.9	2.233	3.221	1.7	21.0
3 12	11 6.09	+15 19.9	1.894	2.870	4.6	19.9	3 12	11 5.88	+ 7 8.6	2.220	3.208	2.1	21.0
3 22	10 58.67	+15 51.1	1.937	2.879	7.9	20.1	3 22	10 57.81	+ 8 8.7	2.237	3.195	5.8	21.2
4 1	10 52.62	+16 6.6	2.006	2.888	11.2	20.3	4 1	10 50.78	+ 9 0.4	2.282	3.181	9.3	21.4
4 11	10 48.50	+16 5.5	2.096	2.898	14.0	20.5	4 11	10 45.39	+ 9 40.0	2.352	3.167	12.3	21.6
<b>318178</b>	2004 <i>RZ</i> <sub>35</sub>		3 6.9 144°39	1°8/ 5.2 18			<b>39374</b>	2002 <i>CB</i> <sub>83</sub>		3 6.9 271°12	0°5/ 6.4 18		
2 1	11 37.81	+ 7 10.9	1.894	2.716	13.8	21.7	2 1	11 33.85	+ 4 45.3	1.901	2.724	13.7	19.7
2 11	11 32.11	+ 8 2.9	1.825	2.728	10.2	21.5	2 11	11 29.29	+ 5 10.4	1.818	2.721	10.3	19.4
2 21	11 24.25	+ 9 4.9	1.780	2.740	6.2	21.3	2 21	11 22.61	+ 5 46.9	1.759	2.717	6.3	19.2
3 2	11 14.92	+10 10.6	1.764	2.751	2.3	21.1	3 2	11 14.43	+ 6 30.5	1.726	2.714	2.0	18.9
3 12	11 5.16	+11 12.4	1.777	2.761	3.5	21.2	3 12	11 5.70	+ 7 15.1	1.722	2.711	2.6	18.9
3 22	10 56.01	+12 4.1	1.818	2.770	7.6	21.5	3 22	10 57.41	+ 7 54.8	1.746	2.708	6.9	19.2
4 1	10 48.39	+12 40.9	1.887	2.778	11.3	21.7	4 1	10 50.51	+ 8 24.8	1.797	2.705	10.9	19.4
4 11	10 42.97	+13 1.0	1.978	2.786	14.5	21.9	4 11	10 45.69	+ 8 41.7	1.870	2.701	14.3	19.6
<b>337929</b>	2001 <i>XV</i> <sub>265</sub>		3 6.9 77°47	1°0/ 5.7 18			<b>369392</b>	2009 <i>VJ</i> <sub>76</sub>		3 6.9 119°10	2°4/ 4.2 18		
2 1	11 31.37	+ 5 19.6	2.297	3.116	11.7	21.2	2 1	11 34.25	+ 9 51.7	2.214	3.041	11.8	21.8
2 11	11 26.91	+ 6 9.5	2.236	3.138	8.7	21.0	2 11	11 29.16	+10 49.8	2.151	3.057	8.7	21.6
2 21	11 20.85	+ 7 8.5	2.200	3.159	5.2	20.8	2 21	11 22.29	+11 54.1	2.113	3.073	5.3	21.4
3 2	11 13.76	+ 8 11.6	2.193	3.181	1.7	20.6	3 2	11 14.27	+12 58.9	2.104	3.088	2.5	21.2
3 12	11 6.41	+ 9 13.0	2.216	3.202	2.5	20.7	3 12	11 5.92	+13 57.5	2.125	3.103	3.8	21.4
3 22	10 59.55	+10 7.4	2.268	3.223	6.0	21.0	3 22	10 58.10	+14 45.0	2.175	3.118	7.1	21.6
4 1	10 53.85	+10 50.8	2.347	3.244	9.1	21.2	4 1	10 51.55	+15 17.8	2.251	3.132	10.2	21.8
4 11	10 49.81	+11 20.8	2.450	3.265	11.8	21.4	4 11	10 46.81	+15 34.7	2.351	3.145	12.9	22.0
<b>59841</b>	1999 <i>RH</i> <sub>54</sub>		3 6.9 111°71	1°7/ 5.4 18			<b>285134</b>	1995 <i>SA</i> <sub>72</sub>		3 6.9 113°93	0°0/ 6.6 18		
2 1	11 37.58	+ 7 17.9	1.778	2.604	14.3	19.9	2 1	11 34.92	+ 1 33.2	1.841	2.653	14.5	21.3
2 11	11 31.99	+ 8 1.9	1.716	2.622	10.6	19.7	2 11	11 29.97	+ 2 24.6	1.774	2.670	10.9	21.1
2 21	11 24.17	+ 8 55.6	1.678	2.639	6.4	19.5	2 21	11 22.93	+ 3 31.2	1.731	2.687	6.7	20.8
3 2	11 14.89	+ 9 52.7	1.668	2.655	2.3	19.3	3 2	11 14.50	+ 4 47.5	1.715	2.703	2.2	20.6
3 12	11 5.23	+10 45.8	1.686	2.671	3.5	19.4	3 12	11 5.67	+ 6 5.9	1.729	2.718	2.4	20.6
3 22	10 56.28	+11 28.7	1.733	2.687	7.7	19.7	3 22	10 57.45	+ 7 18.7	1.771	2.733	6.7	20.9
4 1	10 48.96	+11 57.2	1.806	2.702	11.5	19.9	4 1	10 50.74	+ 8 19.7	1.840	2.748	10.7	21.2
4 11	10 43.93	+12 9.5	1.901	2.716	14.7	20.2	4 11	10 46.14	+ 9 4.9	1.933	2.762	14.0	21.4
<b>74791</b>	1999 <i>SW</i> <sub>6</sub>		3 6.9 182°89	0°6/ 7.5 18 R			<b>213842</b>	2003 <i>SM</i> <sub>8</sub>		3 6.9 54°06	1°1/ 7.7 18		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>135263</b>	2001 <i>SP</i> <sub>73</sub>		3 6.9 19°41'	2°9'	3.4 18		<b>497930</b>	2006 <i>VY</i> <sub>143</sub>		3 6.9 147°91'	6°6'	16.6 17	
2 1	11 29.97	+10 36.7	2.144	2.982	11.8	19.5	2 1	11 31.51	-22 36.3	3.041	3.691	12.7	21.6
2 11	11 26.17	+11 49.3	2.070	2.982	8.7	19.3	2 11	11 26.91	-22 58.2	2.948	3.699	11.1	21.5
2 21	11 20.56	+13 9.4	2.022	2.983	5.4	19.1	2 21	11 20.86	-23 0.8	2.875	3.707	9.4	21.4
3 2	11 13.73	+14 30.1	2.001	2.984	3.0	19.0	3 2	11 13.83	-22 42.8	2.826	3.714	7.8	21.3
3 12	11 6.47	+15 44.3	2.010	2.985	4.5	19.1	3 12	11 6.43	-22 5.2	2.803	3.722	6.7	21.2
3 22	10 59.62	+16 45.7	2.048	2.986	7.7	19.3	3 22	10 59.31	-21 10.9	2.808	3.728	6.8	21.2
4 1	10 53.96	+17 30.1	2.111	2.988	11.0	19.5	4 1	10 53.09	-20 4.3	2.841	3.735	7.9	21.3
4 11	10 50.07	+17 55.7	2.196	2.989	13.7	19.7	4 11	10 48.26	-18 51.3	2.899	3.741	9.5	21.4
<b>372701</b>	2009 <i>WV</i> <sub>230</sub>		3 6.9 150°02'	0°0'	6.7 16		<b>184099</b>	2004 <i>HM</i> <sub>10</sub>		3 6.9 352°25'	7°0'	13.2 18	
2 1	11 33.33	+ 2 37.4	2.226	3.035	12.4	22.5	2 1	11 24.08	-13 21.0	1.233	2.030	21.1	19.0
2 11	11 28.55	+ 3 15.6	2.148	3.042	9.4	22.3	2 11	11 22.98	-13 22.5	1.153	2.021	17.7	18.8
2 21	11 21.97	+ 4 5.7	2.093	3.049	5.8	22.1	2 21	11 19.21	-12 47.0	1.089	2.013	13.6	18.5
3 2	11 14.19	+ 5 3.5	2.067	3.055	1.9	21.8	3 2	11 13.42	-11 32.9	1.046	2.007	9.5	18.2
3 12	11 6.00	+ 6 3.3	2.071	3.061	2.1	21.9	3 12	11 6.81	- 9 45.2	1.025	2.003	7.0	18.1
3 22	10 58.24	+ 6 59.5	2.105	3.066	5.9	22.1	3 22	11 0.71	- 7 35.5	1.028	2.000	8.7	18.2
4 1	10 51.68	+ 7 47.0	2.166	3.071	9.4	22.3	4 1	10 56.43	- 5 19.1	1.054	1.999	12.8	18.4
4 11	10 46.89	+ 8 22.5	2.251	3.076	12.4	22.5	4 11	10 54.88	- 3 11.4	1.101	2.000	17.2	18.6
<b>276812</b>	2004 <i>PN</i> <sub>33</sub>		3 6.9 232°39'	0°6'	6.3 17		<b>75093</b>	1999 <i>VA</i> <sub>35</sub>		3 6.9 159°63'	3°5'	3.5 18	
2 1	11 33.36	+ 4 11.8	2.228	3.041	12.3	21.9	2 1	11 37.36	+12 56.4	2.040	2.870	12.6	19.7
2 11	11 28.72	+ 4 52.3	2.132	3.030	9.2	21.7	2 11	11 31.73	+13 53.2	1.970	2.877	9.3	19.5
2 21	11 22.19	+ 5 44.4	2.061	3.018	5.7	21.4	2 21	11 24.01	+14 54.6	1.925	2.883	5.9	19.3
3 2	11 14.30	+ 6 43.9	2.018	3.006	1.8	21.1	3 2	11 14.90	+15 53.8	1.908	2.889	3.5	19.1
3 12	11 5.85	+ 7 44.9	2.005	2.993	2.4	21.2	3 12	11 5.35	+16 43.8	1.921	2.894	5.0	19.2
3 22	10 57.70	+ 8 41.5	2.022	2.980	6.4	21.4	3 22	10 56.35	+17 19.4	1.963	2.898	8.3	19.5
4 1	10 50.68	+ 9 28.5	2.065	2.966	10.0	21.6	4 1	10 48.79	+17 37.6	2.031	2.902	11.6	19.7
4 11	10 45.47	+10 2.4	2.133	2.952	13.2	21.8	4 11	10 43.32	+17 38.0	2.121	2.905	14.4	19.9
<b>97950</b>	2000 <i>QO</i> <sub>127</sub>		3 6.9 170°72'	0°8'	6.1 18		<b>434872</b>	2006 <i>SM</i> <sub>319</sub>		3 6.9 121°26'	2°2'	4.1 17	
2 1	11 37.55	+ 5 5.6	2.034	2.847	13.3	21.0	2 1	11 32.22	+11 16.8	2.686	3.511	10.1	21.6
2 11	11 31.88	+ 5 42.1	1.954	2.852	9.9	20.8	2 11	11 27.40	+12 1.1	2.618	3.524	7.4	21.5
2 21	11 24.12	+ 6 29.5	1.898	2.856	6.1	20.5	2 21	11 21.13	+12 49.5	2.577	3.536	4.5	21.3
3 2	11 14.93	+ 7 22.8	1.871	2.859	2.0	20.3	3 2	11 13.90	+13 37.3	2.565	3.548	2.3	21.2
3 12	11 5.24	+ 8 15.9	1.873	2.861	2.7	20.3	3 12	11 6.41	+14 19.8	2.583	3.560	3.4	21.2
3 22	10 56.04	+ 9 2.9	1.905	2.863	6.8	20.6	3 22	10 59.31	+14 53.2	2.631	3.571	6.1	21.4
4 1	10 48.24	+ 9 39.0	1.965	2.863	10.6	20.8	4 1	10 53.23	+15 14.9	2.706	3.582	8.8	21.6
4 11	10 42.49	+10 1.4	2.048	2.863	13.8	21.0	4 11	10 48.65	+15 23.8	2.805	3.593	11.2	21.8
<b>341765</b>	2007 <i>VF</i> <sub>328</sub>		3 6.9 145°76'	1°8'	8.9 17		<b>468832</b>	2012 <i>TO</i> <sub>217</sub>		3 6.9 165°48'	1°3'	5.2 18	
2 1	11 33.03	- 2 36.4	2.634	3.414	11.5	21.6	2 1	11 30.59	+ 6 15.0	2.488	3.307	10.9	21.5
2 11	11 28.07	- 2 31.5	2.549	3.421	9.0	21.4	2 11	11 26.38	+ 7 12.9	2.408	3.310	8.1	21.3
2 21	11 21.58	- 2 14.5	2.488	3.428	6.0	21.2	2 21	11 20.60	+ 8 19.8	2.353	3.313	4.9	21.1
3 2	11 14.05	- 1 47.4	2.456	3.435	3.0	21.0	3 2	11 13.76	+ 9 30.9	2.328	3.315	1.7	20.9
3 12	11 6.17	- 1 13.4	2.454	3.442	2.1	21.0	3 12	11 6.54	+10 40.4	2.333	3.317	2.8	20.9
3 22	10 58.64	- 0 36.4	2.481	3.448	4.8	21.2	3 22	10 59.67	+11 42.8	2.367	3.319	6.0	21.1
4 1	10 52.11	- 0 0.7	2.538	3.453	7.8	21.4	4 1	10 53.82	+12 33.8	2.429	3.320	9.1	21.3
4 11	10 47.10	+ 0 30.2	2.620	3.459	10.5	21.6	4 11	10 49.51	+13 10.7	2.516	3.321	11.8	21.5
<b>460061</b>	2014 <i>OA</i> <sub>220</sub>		3 6.9 206°30'	0°2'	6.7 18		<b>253214</b>	2002 <i>XM</i> <sub>107</sub>		3 6.9 147°29'	0°6'	6.3 18	
2 1	11 38.30	+ 3 55.8	1.997	2.806	13.6	22.0	2 1	11 36.03	+ 4 36.9	2.195	3.005	12.5	21.3
2 11	11 32.60	+ 4 21.2	1.905	2.800	10.3	21.8	2 11	11 30.55	+ 5 12.0	2.119	3.016	9.4	21.1
2 21	11 24.68	+ 4 58.4	1.838	2.793	6.4	21.5	2 21	11 23.21	+ 5 57.3	2.069	3.026	5.7	20.9
3 2	11 15.15	+ 5 43.4	1.798	2.786	2.1	21.2	3 2	11 14.63	+ 6 48.3	2.048	3.035	1.8	20.7
3 12	11 4.98	+ 6 30.4	1.788	2.778	2.4	21.2	3 12	11 5.65	+ 7 39.3	2.056	3.044	2.4	20.7
3 22	10 55.21	+ 7 13.6	1.808	2.768	6.8	21.5	3 22	10 57.15	+ 8 25.0	2.094	3.052	6.2	21.0
4 1	10 46.83	+ 7 47.6	1.855	2.758	10.8	21.7	4 1	10 49.94	+ 9 1.1	2.150	3.060	9.7	21.2
4 11	10 40.58	+ 8 9.2	1.926	2.747	14.3	21.9	4 11	10 44.61	+ 9 24.9	2.260	3.066	12.7	21.4
<b>499217</b>	2009 <i>UX</i> <sub>51</sub>		3 6.9 212°37'	1°7'	4.9 17		<b>143532</b>	2003 <i>EK</i> <sub>20</sub>		3 6.9 296°92'	0°0'	6.8 17	
2 1	11 35.51	+ 8 56.0	2.527	3.344	10.9	23.1	2 1	11 29.68	+ 2 39.7	2.243	3.058	12.1	20.1
2 11	11 30.09	+ 9 36.8	2.434	3.335	8.1	22.9	2 11	11 26.01	+ 3 17.3	2.141	3.040	9.2	19.9
2 21	11 22.93	+10 24.4	2.367	3.325	5.0	22.7	2 21	11 20.55	+ 4 7.7	2.064	3.021	5.7	19.6
3 2	11 14.54	+11 14.2	2.329	3.315	2.0	22.5	3 2	11 13.79	+ 5 7.2	2.014	3.002	1.9	19.3
3 12	11 5.65	+12 0.9	2.321	3.304	3.1	22.5	3 12	11 6.46	+ 6 10.2	1.994	2.983	2.1	19.3
3 22	10 57.08	+12 40.0	2.345	3.292	6.4	22.7	3 22	10 59.39	+ 7 11.0	2.002	2.964	6.1	19.5
4 1	10 49.57	+13 7.8	2.396	3.279	9.6	22.9	4 1	10 53.35	+ 8 3.8	2.037	2.946	9.7	19.7
4 11	10 43.71	+13 22.5	2.471	3.265	12.3	23.1	4 11	10 49.01	+ 8 44.5	2.096	2.927	13.0	19.9
<b>198804</b>	2005 <i>EW</i> <sub>180</sub>		3 6.9 98°40'	0°7'	7.6 18		<b>17311</b>	6584 <i>P-L</i>		3 6.9 331°08'	1°4'	5.6 18	
2 1	11 32.03	+ 0 48.2	2.074	2.883	13.2	21.1	2 1	11 34.07	+ 7 5.2	1.795	2.626	14.0	17.8
2 11	11 27.74	+ 1 13.1	1.993	2.885	10.1	20.8	2 11	11 29.57	+ 7 36.9	1.716	2.624	10.4	17.5
2 21	11 21.56	+ 1 51.7	1.934	2.887	6.4	20.6	2 21	11 22.84	+ 8 18.8	1.661	2.622	6.4	17.3
3 2	11 14.09	+ 2 40.3	1.903	2.890	2.4	20.4	3 2	11 14.55	+ 9 5.4	1.633	2.621	2.2	17.0
3 12	11 6.15	+ 3 33.7	1.901	2.892	2.0	20.3	3 12	11 5.70	+ 9 50.1	1.633	2.619	3.3	17.1
3 22	10 58.63	+ 4 25.9	1.928	2.894	5.9	20.6	3 22	10 57.36	+10 26.8	1.660	2.618	7.6	17.3
4 1	10 52.35	+ 5 11.7	1.982	2.896	9.7	20.8	4 1	10 50.51	+10 50.7	1.713	2.617	11.6	17.6
4 11	10 47.93	+ 5 46.8	2.059	2.898	12.9	21.0	4 11	10 45.84	+10 59.4	1.788	2.615	15.0	17.8
<b>387440</b>	2013 <i>WQ</i> <sub>57</sub>		3 6.9 74°76'	3°3'	3.5 18		<b>424720</b>	2008 <i>SY</i> <sub>180</sub>		3 6.9 212°35'	1°0'	8.0 17	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>57790</b>	2001 VO <sub>92</sub>		3 6.9 179°16	6°7/28.1	18		<b>408779</b>	1999 UV <sub>32</sub>		3 6.9 154°75	0°6/ 6.3	18	
2 1	11 34.52	+21 54.2	2.030	2.874	12.1	19.0	2 1	11 36.56	+ 4 22.8	2.008	2.822	13.4	22.5
2 11	11 29.78	+23 34.7	1.969	2.875	9.4	18.8	2 11	11 31.15	+ 4 58.8	1.932	2.830	10.0	22.3
2 21	11 22.91	+25 13.5	1.933	2.875	7.3	18.7	2 21	11 23.69	+ 5 46.1	1.880	2.837	6.2	22.1
3 2	11 14.56	+26 41.3	1.925	2.876	6.8	18.6	3 2	11 14.83	+ 6 40.1	1.855	2.843	2.0	21.8
3 12	11 5.72	+27 49.8	1.945	2.876	8.4	18.7	3 12	11 5.51	+ 7 34.4	1.861	2.849	2.5	21.9
3 22	10 57.40	+28 33.6	1.991	2.875	11.0	18.9	3 22	10 56.70	+ 8 23.2	1.896	2.855	6.7	22.2
4 1	10 50.52	+28 51.3	2.060	2.874	13.7	19.0	4 1	10 49.30	+ 9 1.4	1.958	2.859	10.4	22.4
4 11	10 45.76	+28 44.3	2.148	2.873	16.0	19.2	4 11	10 43.94	+ 9 26.2	2.043	2.864	13.7	22.6
<b>419074</b>	2009 SL <sub>61</sub>		3 6.9 48°83	3°7/ 4.6	18		<b>153949</b>	2001 YY <sub>148</sub>		3 6.9 271°07	6°1/12.0	17	
2 1	11 43.34	+14 45.3	1.533	2.371	15.6	20.3	2 1	11 34.80	-11 53.2	2.006	2.754	15.7	20.2
2 11	11 36.41	+14 50.7	1.485	2.395	11.6	20.1	2 11	11 30.19	-12 29.6	1.901	2.738	13.1	19.9
2 21	11 26.90	+14 56.8	1.460	2.419	7.3	19.9	2 21	11 23.35	-12 46.0	1.816	2.722	10.2	19.7
3 2	11 15.82	+14 57.6	1.461	2.444	3.9	19.7	3 2	11 14.81	-12 40.7	1.756	2.706	7.4	19.5
3 12	11 4.54	+14 47.6	1.491	2.469	5.2	19.9	3 12	11 5.44	-12 14.7	1.722	2.689	6.1	19.4
3 22	10 54.36	+14 24.2	1.548	2.495	9.0	20.1	3 22	10 56.29	-11 31.7	1.716	2.673	7.5	19.4
4 1	10 46.32	+13 47.0	1.630	2.521	12.8	20.4	4 1	10 48.40	-10 38.0	1.736	2.656	10.4	19.6
4 11	10 41.01	+12 57.5	1.734	2.547	16.0	20.7	4 11	10 42.58	- 9 41.3	1.781	2.639	13.7	19.7
<b>21228</b>	1995 SC		3 6.9 109°37	7°1/15.0	18		<b>385293</b>	2001 TO <sub>235</sub>		3 6.9 139°18	2°7/10.4	17	
2 1	11 41.26	-20 14.6	2.691	3.349	14.0	20.7	2 1	11 32.87	- 6 50.2	3.021	3.773	10.8	22.0
2 11	11 34.21	-21 7.3	2.616	3.378	12.1	20.6	2 11	11 27.77	- 6 50.1	2.936	3.786	8.6	21.8
2 21	11 25.38	-21 40.2	2.563	3.405	10.1	20.5	2 21	11 21.34	- 6 37.4	2.875	3.799	6.1	21.7
3 2	11 15.35	-21 51.2	2.535	3.432	8.2	20.4	3 2	11 14.01	- 6 13.3	2.843	3.811	3.7	21.5
3 12	11 4.93	-21 40.6	2.536	3.458	7.2	20.3	3 12	11 6.38	- 5 40.2	2.841	3.822	2.8	21.5
3 22	10 54.97	-21 11.5	2.565	3.483	7.4	20.4	3 22	10 59.08	- 5 1.6	2.870	3.833	4.4	21.6
4 1	10 46.24	-20 28.6	2.623	3.508	8.8	20.5	4 1	10 52.65	- 4 21.3	2.928	3.844	6.8	21.8
4 11	10 39.31	-19 38.3	2.706	3.531	10.5	20.7	4 11	10 47.57	- 3 43.2	3.013	3.854	9.2	21.9
<b>517621</b>	2014 YU <sub>1</sub>		3 6.9 30°18	0°6/ 6.4	18		<b>169398</b>	2001 VP <sub>119</sub>		3 6.9 100°60	3°4/10.8	18	
2 1	11 36.83	+ 6 28.8	1.561	2.393	15.7	20.5	2 1	11 31.66	- 7 49.4	2.443	3.205	12.8	20.1
2 11	11 31.79	+ 6 28.4	1.494	2.402	11.7	20.3	2 11	11 27.22	- 7 52.6	2.359	3.213	10.3	20.0
2 21	11 24.25	+ 6 37.7	1.450	2.411	7.2	20.0	2 21	11 21.15	- 7 39.8	2.297	3.221	7.4	19.8
3 2	11 15.02	+ 6 52.4	1.432	2.420	2.3	19.8	3 2	11 13.97	- 7 12.1	2.262	3.229	4.7	19.6
3 12	11 5.30	+ 7 6.9	1.441	2.430	2.9	19.8	3 12	11 6.41	- 6 32.4	2.256	3.236	3.5	19.6
3 22	10 56.30	+ 7 16.0	1.477	2.441	7.6	20.1	3 22	10 59.21	- 5 45.1	2.279	3.244	5.3	19.7
4 1	10 49.11	+ 7 15.9	1.538	2.452	12.0	20.4	4 1	10 53.07	- 4 55.3	2.330	3.251	8.1	19.9
4 11	10 44.42	+ 7 4.4	1.621	2.463	15.6	20.7	4 11	10 48.53	- 4 8.2	2.406	3.258	10.8	20.1
<b>79156</b>	1993 FA <sub>12</sub>		3 6.9 58°48	0°9/ 5.8	18		<b>381609</b>	2008 WP <sub>69</sub>		3 6.9 33°83	0°3/ 7.2	17	
2 1	11 30.77	+ 5 14.2	2.117	2.941	12.4	19.4	2 1	11 32.15	+ 2 10.6	1.987	2.802	13.5	21.1
2 11	11 26.72	+ 5 59.5	2.045	2.950	9.2	19.2	2 11	11 27.91	+ 2 32.9	1.908	2.805	10.2	20.9
2 21	11 20.89	+ 6 55.2	1.998	2.958	5.6	19.0	2 21	11 21.71	+ 3 8.0	1.853	2.808	6.4	20.7
3 2	11 13.88	+ 7 56.3	1.978	2.967	1.8	18.8	3 2	11 14.18	+ 3 52.0	1.824	2.811	2.3	20.4
3 12	11 6.48	+ 8 56.7	1.988	2.975	2.6	18.8	3 12	11 6.19	+ 4 39.7	1.825	2.815	2.1	20.4
3 22	10 59.54	+ 9 50.3	2.026	2.984	6.4	19.1	3 22	10 58.65	+ 5 25.0	1.853	2.819	6.2	20.7
4 1	10 53.82	+10 32.7	2.091	2.993	9.9	19.3	4 1	10 52.41	+ 6 3.0	1.909	2.822	10.0	20.9
4 11	10 49.87	+11 1.1	2.179	3.002	12.8	19.5	4 11	10 48.10	+ 6 29.7	1.987	2.826	13.3	21.1
<b>239024</b>	2006 DC <sub>110</sub>		3 6.9 295°44	2°7/ 4.6	17		<b>522671</b>	2016 GG <sub>266</sub>		3 6.9 277°80	1°9/ 4.8	17	
2 1	11 35.58	+11 22.5	1.887	2.722	13.2	20.1	2 1	11 30.44	+ 6 6.1	2.013	2.843	12.8	21.7
2 11	11 30.76	+11 49.7	1.796	2.706	9.9	19.9	2 11	11 26.81	+ 7 21.3	1.917	2.825	9.5	21.5
2 21	11 23.64	+12 22.7	1.729	2.690	6.2	19.6	2 21	11 21.17	+ 8 50.4	1.846	2.807	5.8	21.2
3 2	11 14.87	+12 56.2	1.690	2.675	3.0	19.4	3 2	11 14.05	+10 27.2	1.802	2.789	2.2	21.0
3 12	11 5.41	+13 23.5	1.678	2.659	4.3	19.4	3 12	11 6.28	+12 3.4	1.788	2.771	3.7	21.0
3 22	10 56.34	+13 39.7	1.695	2.644	8.2	19.6	3 22	10 58.78	+13 30.6	1.803	2.753	7.7	21.2
4 1	10 48.71	+13 41.1	1.737	2.629	12.1	19.8	4 1	10 52.48	+14 42.1	1.844	2.735	11.6	21.4
4 11	10 43.28	+13 26.6	1.801	2.613	15.5	20.0	4 11	10 48.09	+15 33.9	1.907	2.716	14.9	21.6
<b>198653</b>	2005 BY <sub>9</sub>		3 6.9 69°77	0°7/ 7.6	18		<b>495119</b>	2011 UF <sub>354</sub>		3 6.9 146°83	0°9/ 7.7	18	
2 1	11 34.42	+ 1 45.6	1.951	2.762	13.8	20.4	2 1	11 35.16	- 0 54.7	1.779	2.584	15.2	22.1
2 11	11 29.57	+ 1 55.0	1.878	2.772	10.5	20.2	2 11	11 30.36	- 0 10.9	1.702	2.593	11.6	21.8
2 21	11 22.71	+ 2 16.8	1.828	2.782	6.7	20.0	2 21	11 23.32	+ 0 51.4	1.649	2.601	7.4	21.6
3 2	11 14.49	+ 2 47.8	1.805	2.792	2.5	19.8	3 2	11 14.74	+ 2 7.3	1.622	2.608	2.9	21.3
3 12	11 5.85	+ 3 23.0	1.811	2.802	2.1	19.8	3 12	11 5.63	+ 3 29.6	1.624	2.615	2.2	21.3
3 22	10 57.75	+ 3 57.2	1.846	2.812	6.1	20.1	3 22	10 57.08	+ 4 49.7	1.655	2.621	6.7	21.6
4 1	10 51.03	+ 4 25.5	1.907	2.822	9.9	20.3	4 1	10 50.04	+ 6 0.3	1.713	2.627	10.9	21.8
4 11	10 46.33	+ 4 44.4	1.992	2.832	13.2	20.5	4 11	10 45.22	+ 6 56.0	1.793	2.632	14.5	22.1
<b>160794</b>	2000 UC <sub>7</sub>		3 6.9 109°81	0°8/ 7.7	18		<b>423974</b>	2006 UP <sub>330</sub>		3 6.9 205°48	1°0/ 8.3	17	
2 1	11 37.21	- 0 13.7	1.805	2.609	15.1	20.7	2 1	11 29.29	- 2 19.2	2.719	3.507	11.0	21.7
2 11	11 31.69	+ 0 21.8	1.742	2.631	11.5	20.5	2 11	11 25.36	- 1 32.8	2.624	3.503	8.5	21.5
2 21	11 24.00	+ 1 13.4	1.701	2.652	7.3	20.3	2 21	11 19.97	- 0 32.5	2.553	3.499	5.5	21.3
3 2	11 14.91	+ 2 16.6	1.687	2.673	2.8	20.1	3 2	11 13.59	+ 0 38.5	2.512	3.495	2.4	21.1
3 12	11 5.45	+ 3 24.4	1.703	2.693	2.2	20.1	3 12	11 6.84	+ 1 55.7	2.500	3.490	1.6	21.0
3 22	10 56.66	+ 4 29.5	1.747	2.713	6.5	20.4	3 22	10 57.08	+ 3 13.4	2.520	3.486	4.7	21.2
4 1	10 49.48	+ 5 25.6	1.819	2.731	10.5	20.6	4 1	10 54.73	+ 4 26.5	2.568	3.481	7.8	21.4
4 11	10 44.50	+ 6 8.4	1.914	2.749	13.9	20.9	4 11	10 50.50	+ 5 30.5	2.642	3.475	10.6	21.6
<b>284706</b>	2008 SY <sub>301</sub>		3 6.9 135°37	2°5/ 4.7	18		<b>227532</b>	2005 YD <sub>76</sub>		3 6.9 105°77			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>84418</b>	2002 TX <sub>206</sub>		3 6.9 63°87	2.7/ 9.7	18		<b>173327</b>	1999 VA <sub>165</sub>		3 6.9 65°52	1.2/ 7.8	18	
2 1	11 31.47	- 4 53.7	2.106	2.891	13.8	19.3	2 1	11 35.24	- 0 2.3	1.496	2.315	16.9	20.5
2 11	11 27.30	- 4 44.2	2.026	2.899	10.9	19.1	2 11	11 30.67	+ 0 18.3	1.433	2.331	12.9	20.3
2 21	11 21.30	- 4 17.7	1.969	2.907	7.5	18.9	2 21	11 23.60	+ 0 57.2	1.392	2.346	8.3	20.0
3 2	11 14.05	- 3 36.4	1.939	2.915	4.1	18.7	3 2	11 14.85	+ 1 49.9	1.376	2.362	3.3	19.8
3 12	11 6.38	- 2 44.6	1.936	2.923	2.8	18.7	3 12	11 5.64	+ 2 49.1	1.388	2.378	2.5	19.8
3 22	10 59.14	- 1 48.0	1.963	2.931	5.6	18.9	3 22	10 57.17	+ 3 46.5	1.426	2.394	7.3	20.1
4 1	10 53.12	- 0 52.5	2.016	2.939	9.0	19.1	4 1	10 50.51	+ 4 35.2	1.489	2.410	11.7	20.4
4 11	10 48.91	- 0 3.6	2.094	2.948	12.1	19.3	4 11	10 46.35	+ 5 10.2	1.574	2.426	15.5	20.7
<b>239913</b>	2000 SM <sub>285</sub>		3 6.9 188°31	2°9/11.4	18		<b>226379</b>	2003 KP <sub>32</sub>		3 6.9 158°77	3°7/ 3.1	18	
2 1	11 29.93	- 9 42.0	3.297	4.035	10.3	22.2	2 1	11 33.90	+ 12 58.5	1.967	2.806	12.6	20.5
2 11	11 25.59	- 9 26.0	3.196	4.034	8.3	22.0	2 11	11 29.28	+ 14 2.9	1.896	2.808	9.4	20.3
2 21	11 20.01	- 8 56.2	3.119	4.032	6.1	21.9	2 21	11 22.61	+ 15 12.7	1.850	2.810	6.0	20.0
3 2	11 13.59	- 8 13.6	3.070	4.030	4.0	21.7	3 2	11 14.52	+ 16 20.6	1.832	2.812	3.7	19.9
3 12	11 6.85	- 7 20.9	3.051	4.028	2.9	21.6	3 12	11 5.96	+ 17 19.1	1.842	2.814	5.3	20.0
3 22	11 0.34	- 6 21.5	3.062	4.024	4.2	21.7	3 22	10 57.90	+ 18 2.4	1.880	2.815	8.6	20.2
4 1	10 54.57	- 5 19.7	3.103	4.021	6.4	21.9	4 1	10 51.24	+ 18 26.9	1.944	2.816	11.9	20.4
4 11	10 49.97	- 4 19.9	3.172	4.016	8.7	22.0	4 11	10 46.62	+ 18 32.1	2.029	2.817	14.9	20.6
<b>291271</b>	2006 BR <sub>90</sub>		3 6.9 336°80	2°3/ 5.0	18		<b>55996</b>	1998 SC <sub>110</sub>		3 6.9 141°68	2°1/ 8.6	18	
2 1	11 31.69	+ 6 13.5	1.278	2.130	17.2	20.0	2 1	11 37.34	- 2 26.6	1.618	2.420	16.6	19.6
2 11	11 28.61	+ 7 15.8	1.205	2.124	12.9	19.7	2 11	11 32.22	- 2 13.4	1.543	2.428	12.9	19.3
2 21	11 22.67	+ 8 35.8	1.153	2.119	7.9	19.4	2 21	11 24.59	- 1 40.6	1.489	2.435	8.6	19.1
3 2	11 14.62	+ 10 5.1	1.126	2.113	2.9	19.1	3 2	11 15.22	- 0 51.4	1.460	2.442	4.0	18.8
3 12	11 5.76	+ 11 31.7	1.123	2.109	4.7	19.2	3 12	11 5.23	+ 0 8.1	1.459	2.449	2.7	18.8
3 22	10 57.51	+ 12 44.5	1.146	2.105	10.0	19.5	3 22	10 55.85	+ 1 10.2	1.486	2.455	7.0	19.0
4 1	10 51.22	+ 13 35.5	1.191	2.101	15.0	19.7	4 1	10 48.19	+ 2 7.1	1.539	2.460	11.4	19.3
4 11	10 47.75	+ 14 1.1	1.256	2.099	19.2	20.0	4 11	10 43.01	+ 2 52.8	1.615	2.465	15.3	19.5
<b>175900</b>	1999 XM <sub>217</sub>		3 6.9 183°54	5°6/28.9	17		<b>155512</b>	1999 RH <sub>162</sub>		3 6.9 173°15	1°7/ 5.1	18	
2 1	11 36.37	+ 20 20.7	2.313	3.147	11.2	21.3	2 1	11 32.06	+ 6 39.0	2.026	2.853	12.8	20.0
2 11	11 30.94	+ 21 52.4	2.245	3.148	8.6	21.1	2 11	11 27.86	+ 7 36.8	1.947	2.854	9.5	19.7
2 21	11 23.55	+ 23 23.7	2.204	3.148	6.4	21.0	2 21	11 21.71	+ 8 45.4	1.894	2.855	5.7	19.5
3 2	11 14.81	+ 24 46.6	2.191	3.147	5.7	20.9	3 2	11 14.22	+ 9 58.9	1.868	2.855	2.1	19.3
3 12	11 5.60	+ 25 53.7	2.208	3.146	7.2	21.0	3 12	11 6.26	+ 11 10.0	1.871	2.856	3.4	19.4
3 22	10 56.83	+ 26 40.1	2.253	3.143	9.7	21.2	3 22	10 58.72	+ 12 12.0	1.903	2.856	7.2	19.6
4 1	10 49.35	+ 27 3.9	2.323	3.140	12.2	21.3	4 1	10 52.47	+ 13 0.0	1.962	2.856	10.8	19.8
4 11	10 43.78	+ 27 5.7	2.414	3.136	14.5	21.5	4 11	10 48.11	+ 13 31.1	2.043	2.856	13.9	20.0
<b>465645</b>	2009 QP <sub>3</sub>		3 6.9 245°73	3°4/ 9.9	17		<b>14960</b>	Yule		3 6.9 231°14	0°3/ 6.6	18	
2 1	11 35.78	- 5 38.0	2.082	2.857	14.3	22.1	2 1	11 34.37	+ 3 47.9	1.869	2.689	14.0	18.7
2 11	11 30.79	- 5 47.0	1.977	2.842	11.5	21.9	2 11	11 29.79	+ 4 17.6	1.784	2.685	10.6	18.5
2 21	11 23.66	- 5 39.1	1.894	2.826	8.2	21.6	2 21	11 23.01	+ 5 0.1	1.722	2.680	6.6	18.2
3 2	11 14.92	- 5 15.0	1.837	2.810	4.8	21.4	3 2	11 14.69	+ 5 51.0	1.688	2.675	2.1	17.9
3 12	11 5.44	- 4 37.6	1.810	2.794	3.5	21.3	3 12	11 5.76	+ 6 44.1	1.681	2.671	2.5	17.9
3 22	10 56.20	- 3 51.6	1.811	2.777	6.3	21.4	3 22	10 57.27	+ 7 32.8	1.703	2.665	7.0	18.2
4 1	10 48.18	- 3 3.1	1.839	2.759	9.9	21.6	4 1	10 50.18	+ 8 11.5	1.751	2.660	11.0	18.4
4 11	10 42.15	- 2 18.3	1.892	2.741	13.4	21.8	4 11	10 45.22	+ 8 36.5	1.822	2.655	14.6	18.6
<b>132667</b>	2002 NL <sub>4</sub>		3 6.9 152°57	7°1/13.6	18		<b>425275</b>	2009 WY <sub>145</sub>		3 6.9 76°52	0°3/ 6.6	18	
2 1	11 36.94	- 15 53.4	2.040	2.759	16.3	19.8	2 1	11 35.46	+ 4 10.4	1.877	2.696	14.0	21.5
2 11	11 31.61	- 16 30.4	1.954	2.766	13.9	19.7	2 11	11 30.33	+ 4 35.0	1.815	2.715	10.5	21.3
2 21	11 24.10	- 16 44.6	1.888	2.772	11.1	19.5	2 21	11 23.16	+ 5 10.8	1.777	2.734	6.4	21.1
3 2	11 15.04	- 16 33.9	1.846	2.778	8.5	19.3	3 2	11 14.68	+ 5 53.1	1.766	2.754	2.1	20.9
3 12	11 5.36	- 15 59.8	1.830	2.784	7.1	19.3	3 12	11 5.85	+ 6 36.0	1.784	2.773	2.4	20.9
3 22	10 56.11	- 15 6.4	1.842	2.789	7.9	19.3	3 22	10 57.66	+ 7 13.9	1.830	2.792	6.6	21.2
4 1	10 48.25	- 14 0.9	1.880	2.793	10.2	19.5	4 1	10 50.98	+ 7 42.3	1.903	2.811	10.3	21.5
4 11	10 42.50	- 12 51.3	1.943	2.797	12.9	19.6	4 11	10 46.38	+ 7 58.4	1.999	2.830	13.5	21.7
<b>502226</b>	2015 BQ <sub>88</sub>		3 6.9 230°65	2°4/ 9.4	17		<b>131717</b>	2001 YL <sub>71</sub>		3 6.9 166°15	3°7/ 3.4	18	
2 1	11 31.85	- 4 20.2	2.041	2.830	14.1	21.7	2 1	11 38.18	+ 12 36.3	1.887	2.719	13.4	20.3
2 11	11 27.73	- 4 4.3	1.952	2.829	11.1	21.5	2 11	11 32.55	+ 13 41.1	1.816	2.725	9.9	20.1
2 21	11 21.65	- 3 30.7	1.886	2.826	7.6	21.3	2 21	11 24.65	+ 14 51.7	1.771	2.729	6.3	19.9
3 2	11 14.21	- 2 41.6	1.846	2.824	4.0	21.0	3 2	11 15.21	+ 16 0.5	1.753	2.734	3.8	19.8
3 12	11 6.23	- 1 41.7	1.834	2.822	2.7	21.0	3 12	11 5.26	+ 16 59.3	1.765	2.737	5.3	19.9
3 22	10 58.63	- 0 37.2	1.851	2.820	5.9	21.2	3 22	10 55.89	+ 17 42.1	1.804	2.740	8.9	20.1
4 1	10 52.27	+ 0 25.3	1.895	2.818	9.5	21.4	4 1	10 48.09	+ 18 5.6	1.870	2.741	12.4	20.3
4 11	10 47.79	+ 1 19.9	1.964	2.815	12.9	21.6	4 11	10 42.53	+ 18 9.1	1.957	2.742	15.4	20.5
<b>506200</b>	2016 GT <sub>206</sub>		3 6.9 265°72	10°5/24.0	17		<b>167991</b>	2005 GJ <sub>95</sub>		3 6.9 271°16	0°8/ 6.0	17	
2 1	11 49.05	+ 37 58.1	2.270	3.064	12.7	22.0	2 1	11 31.51	+ 5 13.9	2.229	3.049	12.0	20.8
2 11	11 41.00	+ 39 12.2	2.190	3.035	11.3	21.8	2 11	11 27.36	+ 5 51.1	2.136	3.038	9.0	20.6
2 21	11 30.07	+ 40 12.6	2.133	3.006	10.5	21.7	2 21	11 21.39	+ 6 38.9	2.068	3.027	5.5	20.3
3 2	11 17.07	+ 40 49.1	2.102	2.976	10.8	21.7	3 2	11 14.13	+ 7 32.8	2.028	3.016	1.8	20.1
3 12	11 3.26	+ 40 54.2	2.097	2.944	12.0	21.7	3 12	11 6.35	+ 8 27.3	2.017	3.005	2.5	20.1
3 22	10 50.09	+ 40 25.3	2.117	2.913	13.9	21.7	3 22	10 58.87	+ 9 16.8	2.035	2.993	6.3	20.3
4 1	10 38.83	+ 39 24.0	2.158	2.880	15.9	21.8	4 1	10 52.52	+ 9 56.5	2.080	2.982	9.9	20.5
4 11	10 30.37	+ 37 55.9	2.218	2.846	17.9	21.9	4 11	10 47.90	+ 10 23.2	2.149	2.971	13.0	20.7
<b>222270</b>	2000 RN <sub>39</sub>		3 6.9 140°13	3°5/10.8	16		<b>506787</b>	2007 BM <sub>2</sub>		3 6.9 322°29	4°6/11.5	18	
2 1	1												

EPHEMERIDES

3 6.9

3 6.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>426412</b>	2013 <i>PP</i> <sub>72</sub>		3 6.9 155°80	4.2/12.3	15		<b>136999</b>	1998 <i>SG</i> <sub>76</sub>		3 6.9 187°80	2.4/ 9.2	16	
2 1	11 33.21	-12 35.7	2.699	3.425	12.6	22.7	2 1	11 36.20	- 3 39.0	2.122	2.903	13.9	21.1
2 11	11 28.26	-12 26.5	2.609	3.435	10.4	22.5	2 11	11 30.93	- 3 34.8	2.031	2.903	10.9	20.9
2 21	11 21.76	-11 59.3	2.541	3.443	7.8	22.4	2 21	11 23.63	- 3 14.8	1.963	2.902	7.4	20.7
3 2	11 14.21	-11 14.7	2.501	3.452	5.4	22.2	3 2	11 14.91	- 2 40.8	1.922	2.901	3.9	20.5
3 12	11 6.30	-10 15.7	2.489	3.459	4.2	22.2	3 12	11 5.63	- 1 56.7	1.911	2.898	2.7	20.4
3 22	10 58.72	- 9 6.8	2.507	3.466	5.3	22.2	3 22	10 56.73	- 1 8.0	1.929	2.896	5.9	20.6
4 1	10 52.15	- 7 53.6	2.555	3.472	7.6	22.4	4 1	10 49.10	+ 0 20.2	1.975	2.892	9.5	20.8
4 11	10 47.08	- 6 41.9	2.629	3.477	10.1	22.6	4 11	10 43.41	+ 0 21.3	2.045	2.888	12.8	21.0
<b>90368</b>	2003 <i>MG</i>		3 6.9 143°98	10°3/24.5	18		<b>74807</b>	1999 <i>TV</i>		3 6.9 145°53	0°9/ 7.8	18	
2 1	11 36.85	-38 8.3	3.050	3.550	14.8	19.5	2 1	11 36.38	- 0 20.4	2.248	3.040	12.9	20.9
2 11	11 31.18	-38 56.8	2.964	3.564	13.8	19.4	2 11	11 30.81	+ 0 11.8	2.171	3.054	9.8	20.7
2 21	11 23.67	-39 21.0	2.892	3.578	12.7	19.3	2 21	11 23.41	+ 0 57.6	2.118	3.067	6.3	20.5
3 2	11 14.88	-39 17.4	2.839	3.590	11.6	19.3	3 2	11 14.80	+ 1 53.4	2.094	3.079	2.5	20.3
3 12	11 5.60	-38 45.1	2.806	3.603	10.7	19.2	3 12	11 5.79	+ 2 53.9	2.100	3.090	1.9	20.3
3 22	10 56.68	-37 45.7	2.797	3.614	10.3	19.2	3 22	10 57.26	+ 3 53.3	2.137	3.101	5.6	20.6
4 1	10 48.94	-36 23.6	2.812	3.625	10.4	19.2	4 1	10 49.99	+ 4 46.4	2.201	3.110	9.1	20.8
4 11	10 42.97	-34 45.7	2.850	3.634	11.1	19.3	4 11	10 44.54	+ 5 29.1	2.291	3.119	12.1	21.0
<b>87677</b>	2000 <i>RT</i> <sub>102</sub>		3 6.9 214°47	3°5/10.6	18 R		<b>262498</b>	2006 <i>UM</i> <sub>232</sub>		3 6.9 357°59	11°3/15.3	18	
2 1	11 34.85	- 7 36.3	2.428	3.185	13.0	20.3	2 1	11 30.30	-17 55.0	1.327	2.083	21.9	19.2
2 11	11 29.76	- 7 42.0	2.325	3.177	10.5	20.1	2 11	11 27.72	-19 22.3	1.249	2.078	19.1	18.9
2 21	11 22.85	- 7 31.6	2.246	3.169	7.6	19.9	2 21	11 22.26	-20 18.9	1.188	2.075	16.0	18.7
3 2	11 14.63	- 7 5.8	2.193	3.160	4.8	19.7	3 2	11 14.58	-20 38.8	1.146	2.072	13.1	18.5
3 12	11 5.85	- 6 27.2	2.170	3.150	3.6	19.6	3 12	11 5.93	-20 20.4	1.126	2.072	11.4	18.4
3 22	10 57.34	- 5 39.9	2.176	3.140	5.6	19.7	3 22	10 57.77	-19 27.7	1.127	2.072	11.8	18.5
4 1	10 49.88	- 4 49.4	2.211	3.129	8.6	19.9	4 1	10 51.49	-18 10.5	1.149	2.074	14.1	18.6
4 11	10 44.12	- 4 0.9	2.271	3.117	11.6	20.1	4 11	10 48.10	-16 42.1	1.192	2.078	17.1	18.8
<b>122708</b>	2000 <i>SR</i> <sub>30</sub>		3 6.9 241°04	0°3/ 6.6	18		<b>258234</b>	2001 <i>TK</i> <sub>113</sub>		3 6.9 155°71	1°1/ 8.0	16	
2 1	11 33.88	+ 2 1.9	1.706	2.526	15.1	20.1	2 1	11 35.40	- 0 14.1	2.245	3.038	12.8	21.4
2 11	11 29.71	+ 2 55.9	1.615	2.516	11.5	19.8	2 11	11 30.13	+ 0 4.4	2.162	3.046	9.8	21.2
2 21	11 23.13	+ 4 8.4	1.547	2.505	7.1	19.6	2 21	11 23.03	+ 0 35.9	2.105	3.053	6.4	21.0
3 2	11 14.79	+ 5 33.7	1.505	2.493	2.3	19.2	3 2	11 14.69	+ 1 17.5	2.075	3.059	2.6	20.8
3 12	11 5.68	+ 7 3.5	1.492	2.481	2.8	19.2	3 12	11 5.91	+ 2 4.5	2.075	3.065	1.9	20.7
3 22	10 56.95	+ 8 28.6	1.507	2.469	7.7	19.5	3 22	10 57.56	+ 2 51.7	2.104	3.070	5.6	21.0
4 1	10 49.70	+ 9 40.6	1.548	2.456	12.2	19.7	4 1	10 50.43	+ 3 34.2	2.162	3.074	9.1	21.2
4 11	10 44.77	+10 34.3	1.610	2.443	16.1	19.9	4 11	10 45.11	+ 4 7.9	2.245	3.078	12.1	21.4
<b>96090</b>	1185 <i>T</i> <sub>-2</sub>		3 6.9 206°02	2°0/ 5.3	18		<b>96889</b>	1999 <i>TQ</i> <sub>35</sub>		3 6.9 195°92	3°4/ 3.4	18	
2 1	11 39.69	+ 8 45.7	1.843	2.667	14.0	20.3	2 1	11 38.70	+15 53.7	2.542	3.364	10.7	19.8
2 11	11 33.84	+ 9 17.7	1.758	2.662	10.5	20.0	2 11	11 32.44	+16 25.3	2.459	3.361	8.0	19.6
2 21	11 25.57	+ 9 58.3	1.697	2.657	6.5	19.8	2 21	11 24.40	+16 57.6	2.403	3.357	5.2	19.5
3 2	11 15.57	+10 41.7	1.664	2.650	2.5	19.5	3 2	11 15.14	+17 25.9	2.377	3.353	3.4	19.3
3 12	11 4.91	+11 21.2	1.659	2.643	3.7	19.6	3 12	11 5.46	+17 45.2	2.381	3.349	4.6	19.4
3 22	10 54.73	+11 50.9	1.684	2.636	8.0	19.8	3 22	10 56.21	+17 52.4	2.415	3.344	7.3	19.6
4 1	10 46.13	+12 6.8	1.734	2.628	12.0	20.0	4 1	10 48.15	+17 45.7	2.477	3.338	10.1	19.7
4 11	10 39.87	+12 6.9	1.807	2.619	15.5	20.2	4 11	10 41.87	+17 25.1	2.562	3.332	12.6	19.9
<b>195515</b>	2002 <i>HN</i> <sub>14</sub>		3 6.9 329°08	2°2/ 9.1	17		<b>90107</b>	2002 <i>XJ</i> <sub>34</sub>		3 6.9 111°96	1°8/ 5.2	18	
2 1	11 28.34	- 4 15.6	1.641	2.450	16.1	20.2	2 1	11 35.15	+ 7 30.4	1.798	2.628	14.0	19.7
2 11	11 25.60	- 3 42.1	1.549	2.438	12.7	19.9	2 11	11 30.32	+ 8 17.0	1.729	2.637	10.4	19.5
2 21	11 20.61	- 2 45.1	1.479	2.427	8.6	19.7	2 21	11 23.30	+ 9 13.6	1.684	2.645	6.3	19.2
3 2	11 13.94	+ 1 27.4	1.434	2.416	4.2	19.4	3 2	11 14.80	+10 13.9	1.666	2.654	2.4	19.0
3 12	11 6.57	+ 0 4.1	1.415	2.405	2.7	19.2	3 12	11 5.83	+11 10.6	1.677	2.662	3.6	19.1
3 22	10 59.57	+ 1 40.0	1.424	2.395	6.9	19.5	3 22	10 57.45	+11 57.0	1.716	2.670	7.7	19.4
4 1	10 54.00	+ 3 10.7	1.458	2.386	11.4	19.7	4 1	10 50.61	+12 28.7	1.780	2.677	11.6	19.6
4 11	10 50.64	+ 4 27.8	1.514	2.377	15.4	19.9	4 11	10 45.95	+12 43.5	1.867	2.685	14.9	19.8
<b>102487</b>	1999 <i>TF</i> <sub>260</sub>		3 6.9 137°15	1°1/ 7.9	18		<b>429196</b>	2009 <i>WM</i> <sub>89</sub>		3 6.9 151°60	6°6/27.7	18	
2 1	11 34.87	- 1 11.6	1.871	2.673	14.7	20.9	2 1	11 36.67	+25 29.5	2.435	3.266	10.8	21.9
2 11	11 30.04	- 0 34.7	1.796	2.683	11.3	20.7	2 11	11 31.04	+26 51.2	2.381	3.275	8.6	21.7
2 21	11 23.10	+ 0 19.6	1.743	2.693	7.3	20.5	2 21	11 23.55	+28 7.7	2.354	3.284	6.9	21.7
3 2	11 14.71	+ 1 26.9	1.717	2.702	2.9	20.2	3 2	11 14.85	+29 11.4	2.355	3.292	6.6	21.6
3 12	11 5.84	+ 2 40.7	1.720	2.711	2.1	20.2	3 12	11 5.79	+29 56.5	2.384	3.299	7.9	21.7
3 22	10 57.50	+ 3 53.5	1.752	2.719	6.4	20.5	3 22	10 57.26	+30 19.6	2.440	3.306	9.9	21.9
4 1	10 50.61	+ 4 58.3	1.812	2.726	10.4	20.7	4 1	10 50.05	+30 20.3	2.520	3.312	12.1	22.0
4 11	10 45.82	+ 5 50.1	1.894	2.734	13.8	21.0	4 11	10 44.73	+30 0.6	2.620	3.318	14.0	22.2
<b>329778</b>	2004 <i>MA</i> <sub>4</sub>		3 6.9 223°20	3°3/ 9.9	17		<b>434826</b>	2006 <i>SX</i> <sub>22</sub>		3 6.9 148°71	2°7/ 3.3	17	
2 1	11 34.85	- 5 26.7	2.067	2.845	14.3	21.2	2 1	11 30.93	+11 48.4	2.589	3.419	10.2	21.1
2 11	11 30.01	- 5 34.9	1.973	2.840	11.4	20.9	2 11	11 26.62	+12 52.7	2.516	3.425	7.5	20.9
2 21	11 23.12	- 5 26.3	1.901	2.835	8.1	20.7	2 21	11 20.78	+14 1.8	2.470	3.430	4.7	20.7
3 2	11 14.75	- 5 1.8	1.856	2.829	4.7	20.5	3 2	11 13.92	+15 10.3	2.453	3.435	2.8	20.6
3 12	11 5.76	- 4 24.7	1.839	2.823	3.4	20.4	3 12	11 6.73	+16 12.4	2.467	3.439	4.0	20.7
3 22	10 57.12	- 3 40.0	1.850	2.817	6.1	20.6	3 22	10 59.89	+17 3.4	2.509	3.444	6.8	20.9
4 1	10 49.73	- 2 53.5	1.889	2.810	9.6	20.8	4 1	10 54.06	+17 40.2	2.579	3.448	9.5	21.1
4 11	10 44.31	- 2 11.1	1.952	2.803	13.0	21.0	4 11	10 49.74	+18 1.5	2.671	3.451	11.9	21.2
<b>94929</b>	2001 <i>YA</i> <sub>71</sub>		3 6.9 129°37	1°1/ 5.9	18		<b>457523</b>	2008 <i>WK</i> <sub>34</sub>		3 6.9 205°51	1°2/ 5.8		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>214284</b>	2005 <i>GR</i> <sub>132</sub>		3 6.9 196°68	0°6/ 7.6 16			<b>341748</b>	2007 <i>VU</i> <sub>275</sub>		3 6.9 128°28	3°5/11.0 17		
2 1	11 33.70	- 0 7.4	1.921	2.727	14.2	21.4	2 1	11 30.90	- 8 29.8	2.377	3.139	13.1	20.7
2 11	11 29.25	+ 0 34.4	1.834	2.726	10.9	21.2	2 11	11 26.78	- 8 23.9	2.288	3.142	10.6	20.6
2 21	11 22.69	+ 1 33.0	1.771	2.723	6.9	20.9	2 21	11 20.99	- 8 0.5	2.222	3.145	7.7	20.4
3 2	11 14.63	+ 2 44.3	1.735	2.721	2.6	20.6	3 2	11 14.05	- 7 20.9	2.182	3.148	4.8	20.2
3 12	11 6.00	+ 4 1.6	1.727	2.718	2.1	20.6	3 12	11 6.69	- 6 28.4	2.170	3.151	3.5	20.1
3 22	10 57.77	+ 5 17.3	1.749	2.714	6.5	20.9	3 22	10 59.66	- 5 27.9	2.188	3.153	5.4	20.2
4 1	10 50.90	+ 6 24.4	1.797	2.710	10.6	21.1	4 1	10 53.70	- 4 25.2	2.233	3.156	8.3	20.4
4 11	10 46.06	+ 7 17.7	1.869	2.706	14.1	21.3	4 11	10 49.35	- 3 26.1	2.304	3.159	11.1	20.6
<b>326338</b>	2000 <i>QM</i> <sub>197</sub>		3 6.9 236°83	0°6/ 7.5 17			<b>223299</b>	2003 <i>KL</i> <sub>13</sub>		3 6.9 304°93	0°1/ 7.1 17		
2 1	11 35.95	+ 1 54.3	2.187	2.989	12.8	20.9	2 1	11 32.10	+ 1 48.4	1.813	2.632	14.4	20.4
2 11	11 30.77	+ 2 5.6	2.087	2.977	9.8	20.7	2 11	11 28.17	+ 2 23.9	1.729	2.629	10.9	20.2
2 21	11 23.59	+ 2 28.6	2.012	2.964	6.3	20.5	2 21	11 22.08	+ 3 14.9	1.668	2.625	6.9	19.9
3 2	11 14.94	+ 3 0.6	1.965	2.951	2.4	20.2	3 2	11 14.46	+ 4 16.9	1.634	2.621	2.4	19.6
3 12	11 5.67	+ 3 37.0	1.947	2.937	2.0	20.1	3 12	11 6.26	+ 5 23.2	1.628	2.618	2.3	19.6
3 22	10 56.69	+ 4 13.0	1.958	2.923	6.0	20.4	3 22	10 58.48	+ 6 26.5	1.649	2.614	6.8	19.9
4 1	10 48.91	+ 4 43.8	1.998	2.908	9.8	20.6	4 1	10 52.09	+ 7 20.1	1.697	2.611	11.0	20.1
4 11	10 43.00	+ 5 5.6	2.061	2.893	13.2	20.7	4 11	10 47.81	+ 7 59.5	1.767	2.608	14.6	20.3
<b>241147</b>	2007 <i>RM</i> <sub>24</sub>		3 6.9 165°59	0°7/ 6.2 18			<b>46526</b>	1981 <i>EN</i> <sub>5</sub>		3 6.9 43°66	3°7/ 9.9 18		
2 1	11 35.71	+ 3 41.8	2.079	2.890	13.1	21.0	2 1	11 33.43	- 5 45.6	1.500	2.301	17.8	19.2
2 11	11 30.53	+ 4 36.8	1.999	2.896	9.8	20.8	2 11	11 29.48	- 5 45.5	1.428	2.308	14.1	19.0
2 21	11 23.36	+ 5 44.5	1.945	2.902	6.0	20.5	2 21	11 23.02	- 5 22.2	1.376	2.316	9.9	18.8
3 2	11 14.83	+ 6 59.7	1.919	2.907	1.9	20.3	3 2	11 14.79	- 4 37.3	1.347	2.324	5.6	18.5
3 12	11 5.83	+ 8 15.2	1.923	2.911	2.6	20.3	3 12	11 5.95	- 3 36.6	1.345	2.332	3.8	18.4
3 22	10 57.28	+ 9 24.4	1.956	2.914	6.6	20.6	3 22	10 57.73	- 2 28.3	1.370	2.340	7.2	18.7
4 1	10 50.06	+ 10 21.5	2.018	2.916	10.4	20.8	4 1	10 51.23	- 1 21.2	1.419	2.349	11.5	18.9
4 11	10 44.78	+ 11 3.3	2.102	2.917	13.5	21.0	4 11	10 47.23	- 0 23.3	1.490	2.358	15.4	19.2
<b>452493</b>	2004 <i>GS</i> <sub>56</sub>		3 6.9 30°67	0°7/ 6.5 18			<b>474040</b>	2016 <i>GG</i> <sub>218</sub>		3 6.9 289°85	7°1/28.6 17		
2 1	11 37.29	+ 5 22.1	1.126	1.975	19.3	21.2	2 1	11 34.42	+ 21 28.0	1.788	2.638	13.2	20.9
2 11	11 33.02	+ 5 32.8	1.065	1.981	14.5	20.9	2 11	11 30.14	+ 22 55.5	1.714	2.624	10.3	20.7
2 21	11 25.47	+ 5 59.0	1.024	1.988	9.0	20.6	2 21	11 23.42	+ 24 22.7	1.664	2.610	7.9	20.5
3 2	11 15.63	+ 6 34.5	1.007	1.995	2.9	20.3	3 2	11 14.94	+ 25 39.6	1.640	2.596	7.2	20.5
3 12	11 5.06	+ 7 10.5	1.013	2.003	3.5	20.4	3 12	11 5.77	+ 26 36.8	1.643	2.582	9.0	20.5
3 22	10 55.44	+ 7 38.8	1.044	2.012	9.5	20.7	3 22	10 57.08	+ 27 8.1	1.671	2.569	12.0	20.7
4 1	10 48.21	+ 7 53.2	1.098	2.021	14.8	21.1	4 1	10 49.97	+ 27 11.5	1.721	2.555	15.1	20.9
4 11	10 44.21	+ 7 50.4	1.170	2.030	19.2	21.4	4 11	10 45.25	+ 26 48.4	1.790	2.542	17.9	21.0
<b>139187</b>	2001 <i>FE</i> <sub>147</sub>		3 6.9 320°49	2°0/ 8.3 18			<b>465734</b>	2009 <i>VV</i> <sub>27</sub>		3 6.9 61°93	6°4/13.5 18		
2 1	11 36.75	+ 0 10.9	1.516	2.333	16.8	20.0	2 1	11 31.78	- 14 53.3	1.869	2.611	16.9	20.6
2 11	11 32.11	- 0 5.3	1.432	2.326	13.1	19.8	2 11	11 27.88	- 15 4.3	1.789	2.618	14.2	20.5
2 21	11 24.76	- 0 5.8	1.369	2.320	8.7	19.5	2 21	11 21.87	- 14 49.6	1.727	2.627	11.1	20.3
3 2	11 15.40	+ 0 7.6	1.330	2.314	3.9	19.2	3 2	11 14.39	- 14 8.5	1.690	2.635	8.1	20.1
3 12	11 5.22	+ 0 30.3	1.319	2.309	2.8	19.1	3 12	11 6.36	- 13 4.2	1.678	2.643	6.4	20.0
3 22	10 55.54	+ 0 56.4	1.334	2.303	7.5	19.4	3 22	10 58.81	- 11 42.9	1.693	2.651	7.4	20.1
4 1	10 47.63	+ 1 19.6	1.374	2.298	12.2	19.6	4 1	10 52.67	- 10 13.3	1.734	2.660	10.1	20.3
4 11	10 42.35	+ 1 34.6	1.435	2.294	16.4	19.9	4 11	10 48.60	- 8 44.6	1.800	2.669	13.1	20.5
<b>297770</b>	2001 <i>XD</i> <sub>173</sub>		3 6.9 169°25	3°4/10.0 18			<b>121169</b>	1999 <i>KA</i> <sub>2</sub>		3 6.9 355°43	1°1/ 7.8 18		
2 1	11 36.91	- 6 24.7	1.878	2.654	15.6	20.6	2 1	11 31.64	+ 0 9.9	1.221	2.060	18.7	19.3
2 11	11 31.69	- 6 20.3	1.793	2.659	12.5	20.4	2 11	11 28.70	+ 0 28.5	1.148	2.057	14.4	19.0
2 21	11 24.23	- 5 55.8	1.730	2.662	8.8	20.2	2 21	11 22.82	+ 1 9.5	1.096	2.054	9.3	18.7
3 2	11 15.17	- 5 12.7	1.692	2.665	5.1	20.0	3 2	11 14.79	+ 2 8.6	1.066	2.052	3.7	18.3
3 12	11 5.50	- 4 15.5	1.683	2.667	3.6	19.9	3 12	11 5.93	+ 3 17.0	1.060	2.051	2.8	18.3
3 22	10 56.30	- 3 10.6	1.702	2.669	6.5	20.1	3 22	10 57.72	+ 4 24.4	1.079	2.051	8.5	18.6
4 1	10 48.57	- 2 5.5	1.748	2.670	10.3	20.3	4 1	10 51.52	+ 5 21.2	1.121	2.052	13.8	18.9
4 11	10 43.03	- 1 7.0	1.819	2.670	13.8	20.5	4 11	10 48.21	+ 6 0.5	1.183	2.053	18.3	19.2
<b>379041</b>	2008 <i>WW</i> <sub>19</sub>		3 6.9 208°09	1°2/ 5.6 17			<b>404126</b>	2013 <i>AM</i> <sub>128</sub>		3 6.9 336°37	2°9/ 4.6 18		
2 1	11 33.17	+ 6 53.0	2.205	3.027	12.1	21.5	2 1	11 25.08	+ 5 42.3	1.021	1.895	18.9	20.0
2 11	11 28.58	+ 7 29.0	2.122	3.025	9.0	21.3	2 11	11 24.31	+ 6 55.9	0.944	1.875	14.2	19.6
2 21	11 22.14	+ 8 13.8	2.063	3.023	5.5	21.1	2 21	11 20.42	+ 8 34.8	0.887	1.856	8.7	19.3
3 2	11 14.44	+ 9 2.7	2.033	3.020	1.9	20.9	3 2	11 14.07	+ 10 29.4	0.851	1.839	3.4	18.9
3 12	11 6.27	+ 9 50.1	2.032	3.018	2.8	20.9	3 12	11 6.61	+ 12 24.1	0.838	1.823	5.8	19.0
3 22	10 58.48	+ 10 30.9	2.060	3.015	6.5	21.2	3 22	10 59.69	+ 14 2.8	0.847	1.809	11.9	19.2
4 1	10 51.89	+ 11 0.8	2.115	3.012	10.0	21.4	4 1	10 54.88	+ 15 13.1	0.875	1.797	17.7	19.5
4 11	10 47.09	+ 11 17.5	2.193	3.009	13.0	21.6	4 11	10 53.29	+ 15 49.1	0.921	1.787	22.6	19.8
<b>418928</b>	2009 <i>DJ</i> <sub>1</sub>		3 6.9 338°75	7°0/ 2.6 15			<b>123583</b>	2000 <i>XR</i> <sub>40</sub>		3 6.9 118°81	4°5/11.8 18		
2 1	11 35.32	+ 17 38.5	1.123	1.993	17.8	20.6	2 1	11 37.11	- 11 1.0	2.475	3.208	13.4	19.3
2 11	11 31.91	+ 18 25.2	1.053	1.979	13.7	20.3	2 11	11 31.24	- 11 19.2	2.399	3.229	11.0	19.1
2 21	11 25.03	+ 19 14.1	1.004	1.965	9.4	20.0	2 21	11 23.65	- 11 20.2	2.344	3.250	8.3	19.0
3 2	11 15.56	+ 19 53.5	0.977	1.953	7.0	19.8	3 2	11 14.93	- 11 4.2	2.317	3.270	5.7	18.9
3 12	11 5.08	+ 20 11.8	0.973	1.943	9.0	19.9	3 12	11 5.86	- 10 33.6	2.319	3.289	4.5	18.8
3 22	10 55.40	+ 20 2.0	0.991	1.933	13.5	20.1	3 22	10 57.23	- 9 52.3	2.351	3.307	5.7	18.9
4 1	10 48.13	+ 19 22.4	1.030	1.925	18.1	20.3	4 1	10 49.79	- 9 5.5	2.411	3.325	8.2	19.1
4 11	10 44.26	+ 18 16.0	1.085	1.919	22.2	20.6	4 11	10 44.07	- 8 18.6	2.497	3.342	10.7	19.3
<b>430258</b>	2013 <i>WW</i> <sub>31</sub>		3 6.9 150°13	0°5/ 7.4 17			<b>233306</b>	2006 <i>BL</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>113170</b>	2002 RZ <sub>101</sub>		3 6.9 80°09	4.1/11.8	18		<b>272755</b>	2005 YP <sub>143</sub>		3 6.9 16°48	6.2/ 1.6	18	
2 1	11 30.74	-10 44.6	2.216	2.970	14.2	19.3	2 1	11 28.79	+14 47.1	1.224	2.097	16.4	19.5
2 11	11 26.71	-10 29.4	2.137	2.984	11.5	19.1	2 11	11 26.39	+16 21.4	1.178	2.106	12.2	19.3
2 21	11 20.96	-9 53.6	2.081	2.998	8.5	19.0	2 21	11 21.23	+18 1.0	1.153	2.116	8.2	19.1
3 2	11 14.04	-8 58.9	2.051	3.012	5.6	18.8	3 2	11 14.22	+19 33.3	1.151	2.128	6.2	19.0
3 12	11 6.76	-7 49.2	2.048	3.026	4.1	18.7	3 12	11 6.70	+20 45.9	1.175	2.141	8.4	19.2
3 22	10 59.91	-6 30.7	2.075	3.040	5.6	18.9	3 22	11 0.04	+21 30.8	1.221	2.156	12.3	19.4
4 1	10 54.23	-5 10.3	2.129	3.054	8.5	19.1	4 1	10 55.37	+21 45.2	1.289	2.171	16.1	19.7
4 11	10 50.26	-3 54.7	2.208	3.067	11.4	19.3	4 11	10 53.38	+21 30.7	1.374	2.189	19.4	20.0
<b>234265</b>	2000 VU <sub>46</sub>		3 6.9 198°63	7.0/18.5	18		<b>67769</b>	2000 UG <sub>67</sub>		3 6.9 355°04	2.6/ 8.8	18	
2 1	11 31.86	-27 27.7	3.506	4.104	11.8	21.1	2 1	11 33.93	-1 50.8	1.314	2.138	18.5	18.9
2 11	11 27.18	-27 54.2	3.398	4.100	10.7	21.0	2 11	11 30.29	-1 57.9	1.238	2.135	14.5	18.6
2 21	11 21.12	-28 2.3	3.309	4.095	9.3	20.9	2 21	11 23.77	-1 43.6	1.182	2.133	9.8	18.3
3 2	11 14.10	-27 50.3	3.242	4.090	8.1	20.8	3 2	11 15.14	-1 10.4	1.149	2.132	4.7	18.1
3 12	11 6.67	-27 18.3	3.201	4.084	7.2	20.7	3 12	11 5.69	-0 24.1	1.141	2.131	3.2	18.0
3 22	10 59.43	-26 28.2	3.187	4.078	7.1	20.7	3 22	10 56.84	+0 27.1	1.159	2.131	8.0	18.2
4 1	10 52.97	-25 23.6	3.200	4.071	7.8	20.7	4 1	10 49.93	+1 14.5	1.200	2.131	13.0	18.5
4 11	10 47.77	-24 9.7	3.239	4.063	9.0	20.8	4 11	10 45.84	+1 50.8	1.261	2.132	17.4	18.8
<b>456750</b>	2007 TM <sub>56</sub>		3 6.9 116°42	0.2/ 6.8	18		<b>416847</b>	2005 LX <sub>39</sub>		3 6.9 174°04	2.6/ 4.1	18	
2 1	11 37.52	+3 15.3	1.782	2.598	14.8	22.2	2 1	11 34.61	+9 55.0	2.196	3.023	11.9	21.5
2 11	11 32.07	+3 47.2	1.716	2.613	11.1	21.9	2 11	11 29.67	+10 59.9	2.119	3.026	8.8	21.3
2 21	11 24.38	+4 32.2	1.672	2.629	6.9	21.7	2 21	11 22.84	+12 12.3	2.068	3.028	5.4	21.1
3 2	11 15.20	+5 25.4	1.656	2.644	2.3	21.5	3 2	11 14.72	+13 26.0	2.046	3.030	2.7	20.9
3 12	11 5.60	+6 19.9	1.668	2.658	2.5	21.5	3 12	11 6.15	+14 33.8	2.053	3.031	4.1	21.0
3 22	10 56.65	+7 9.2	1.709	2.672	6.9	21.8	3 22	10 58.00	+15 30.1	2.090	3.032	7.4	21.2
4 1	10 49.31	+7 47.9	1.777	2.685	11.0	22.1	4 1	10 51.10	+16 10.5	2.154	3.032	10.7	21.5
4 11	10 44.22	+8 12.8	1.867	2.698	14.4	22.3	4 11	10 46.04	+16 33.6	2.240	3.031	13.6	21.6
<b>467293</b>	2016 EP <sub>196</sub>		3 6.9 267°67	11°2/26.5	18		<b>132483</b>	2002 JS <sub>24</sub>		3 6.9 285°98	2.2/ 5.1	17	
2 1	11 49.21	+36 25.1	1.866	2.674	14.5	20.4	2 1	11 34.55	+7 31.1	1.553	2.392	15.4	20.0
2 11	11 41.22	+37 24.5	1.805	2.666	12.6	20.3	2 11	11 30.57	+8 18.8	1.461	2.373	11.6	19.7
2 21	11 30.20	+38 7.2	1.767	2.658	11.4	20.2	2 21	11 23.92	+9 20.4	1.391	2.354	7.1	19.4
3 2	11 17.17	+38 22.8	1.754	2.649	11.3	20.1	3 2	11 15.21	+10 29.0	1.347	2.334	2.8	19.1
3 12	11 3.64	+38 4.1	1.766	2.641	12.5	20.2	3 12	11 5.57	+11 35.7	1.330	2.314	4.3	19.1
3 22	10 51.18	+37 10.2	1.802	2.632	14.5	20.3	3 22	10 56.29	+12 31.7	1.339	2.295	9.2	19.4
4 1	10 41.06	+35 44.8	1.860	2.624	16.8	20.4	4 1	10 48.63	+13 10.0	1.373	2.275	13.9	19.6
4 11	10 34.03	+33 54.9	1.936	2.615	18.8	20.6	4 11	10 43.55	+13 27.3	1.427	2.256	18.1	19.8
<b>35257</b>	1996 HM <sub>14</sub>		3 6.9 221°01	1°3/ 5.8	18		<b>91376</b>	1999 JU <sub>100</sub>		3 6.9 257°55	3.4/ 10.7	18	
2 1	11 37.63	+6 13.7	1.988	2.806	13.4	20.0	2 1	11 30.74	-8 36.9	1.991	2.764	15.0	19.5
2 11	11 32.24	+6 53.7	1.895	2.795	10.1	19.8	2 11	11 27.08	-8 6.9	1.893	2.755	12.1	19.3
2 21	11 24.61	+7 44.9	1.825	2.784	6.2	19.5	2 21	11 21.42	-7 13.7	1.816	2.746	8.6	19.1
3 2	11 15.35	+8 42.1	1.784	2.772	2.1	19.2	3 2	11 14.30	-5 59.0	1.765	2.737	5.1	18.8
3 12	11 5.39	+9 38.6	1.772	2.759	3.1	19.3	3 12	11 6.56	-4 28.1	1.743	2.727	3.5	18.7
3 22	10 55.79	+10 28.0	1.790	2.745	7.3	19.5	3 22	10 59.13	-2 48.3	1.748	2.718	6.1	18.9
4 1	10 47.56	+11 5.1	1.834	2.730	11.3	19.7	4 1	10 52.94	-1 8.6	1.782	2.708	9.8	19.1
4 11	10 41.44	+11 26.8	1.902	2.715	14.8	19.9	4 11	10 48.66	+0 22.9	1.840	2.698	13.3	19.3
<b>436012</b>	2009 HH <sub>17</sub>		3 6.9 273°48	5°7/14.7	16		<b>422957</b>	2002 WZ <sub>20</sub>		3 6.9 130°67	4°0/11.3	18	
2 1	11 29.54	-18 32.3	2.743	3.436	13.1	22.3	2 1	11 35.50	-9 58.4	2.258	3.006	14.1	23.2
2 11	11 25.78	-18 20.6	2.620	3.413	11.3	22.2	2 11	11 30.22	-9 49.9	2.179	3.023	11.4	23.0
2 21	11 20.43	-17 47.1	2.517	3.389	9.2	22.0	2 21	11 23.12	-9 22.1	2.123	3.039	8.4	22.8
3 2	11 13.91	-16 51.0	2.439	3.365	7.1	21.8	3 2	11 14.81	-8 36.1	2.093	3.055	5.4	22.7
3 12	11 6.86	-15 33.9	2.389	3.341	5.7	21.7	3 12	11 6.10	-7 35.8	2.092	3.070	4.0	22.6
3 22	10 59.97	-14 0.0	2.367	3.316	6.2	21.7	3 22	10 57.87	-6 26.9	2.121	3.084	5.7	22.7
4 1	10 53.94	-12 15.5	2.375	3.292	8.1	21.7	4 1	10 50.88	-5 15.8	2.178	3.098	8.6	22.9
4 11	10 49.36	-10 28.0	2.409	3.267	10.6	21.9	4 11	10 45.70	-4 8.9	2.261	3.111	11.5	23.1
<b>209120</b>	2003 SF <sub>178</sub>		3 6.9 333°48	1°5/ 7.9	18		<b>427379</b>	2014 XD <sub>17</sub>		3 6.9 136°44	0°3/ 6.6	18	
2 1	11 36.98	+1 10.3	1.461	2.283	17.1	19.6	2 1	11 35.12	+3 0.2	2.274	3.080	12.3	21.9
2 11	11 32.35	+1 0.3	1.381	2.279	13.2	19.4	2 11	11 29.88	+3 47.7	2.202	3.095	9.2	21.7
2 21	11 24.94	+1 6.0	1.322	2.276	8.6	19.1	2 21	11 22.88	+4 46.5	2.155	3.110	5.7	21.5
3 2	11 15.50	+1 24.9	1.287	2.272	3.6	18.8	3 2	11 14.72	+5 52.1	2.136	3.124	1.8	21.2
3 12	11 5.26	+1 51.7	1.279	2.269	2.7	18.7	3 12	11 6.21	+6 58.5	2.148	3.137	2.1	21.3
3 22	10 55.59	+2 19.9	1.297	2.267	7.7	19.0	3 22	10 58.17	+7 59.9	2.190	3.150	5.9	21.6
4 1	10 47.76	+2 43.3	1.340	2.264	12.5	19.3	4 1	10 51.35	+8 51.4	2.261	3.161	9.3	21.8
4 11	10 42.64	+2 56.7	1.404	2.262	16.7	19.5	4 11	10 46.29	+9 30.1	2.355	3.172	12.2	22.0
<b>500659</b>	2012 VU <sub>20</sub>		3 6.9 108°58	3°1/ 3.6	17		<b>56885</b>	2000 QP <sub>127</sub>		3 6.9 156°92	1°6/ 4.9	18	
2 1	11 34.51	+13 59.7	2.389	3.219	11.0	21.8	2 1	11 34.02	+10 31.9	3.081	3.896	9.2	19.2
2 11	11 29.37	+14 37.3	2.321	3.228	8.1	21.6	2 11	11 28.66	+10 57.1	3.003	3.903	6.8	19.1
2 21	11 22.53	+15 17.2	2.279	3.236	5.2	21.5	2 21	11 21.97	+11 25.8	2.952	3.909	4.1	18.9
3 2	11 14.57	+15 54.4	2.265	3.245	3.1	21.3	3 2	11 14.39	+11 54.6	2.930	3.916	1.8	18.7
3 12	11 6.29	+16 23.8	2.281	3.253	4.3	21.4	3 12	11 6.54	+12 19.9	2.941	3.921	2.7	18.8
3 22	10 58.48	+16 41.6	2.325	3.261	7.1	21.6	3 22	10 59.03	+12 38.7	2.981	3.927	5.3	19.0
4 1	10 51.87	+16 45.9	2.397	3.269	10.0	21.8	4 1	10 52.42	+12 48.9	3.051	3.932	7.8	19.1
4 11	10 46.98	+16 36.2	2.491	3.277	12.5	22.0	4 11	10 47.15	+12 49.4	3.145	3.936	10.0	19.3
<b>205230</b>	2000 QW <sub>103</sub>		3 6.9 124°53	2°2/ 5.0	18		<b>1457</b>	Ankara		3 6.9 309°84	3°3/ 9.5	18	
2 1	11 37.93	+8 3.4	1.775	2.602	14.3	20.9	2 1	11 33.50	-3 49.3	1.720			



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>237659</b>	2001 SB <sub>203</sub>		3 6.9 244°89	0°0/ 6.9 17			<b>157911</b>	1999 TU <sub>236</sub>		3 6.9 192°80	1°0/ 8.2 18		
2 1	11 35.38	+ 1 15.9	1.676	2.492	15.5	21.8	2 1	11 31.82	- 1 45.5	2.555	3.342	11.6	20.6
2 11	11 30.99	+ 1 59.9	1.580	2.478	11.9	21.5	2 11	11 27.40	- 1 2.6	2.461	3.340	8.9	20.4
2 21	11 24.08	+ 3 2.9	1.507	2.463	7.5	21.2	2 21	11 21.38	- 0 5.5	2.392	3.338	5.8	20.2
3 2	11 15.26	+ 4 20.1	1.461	2.448	2.6	20.8	3 2	11 14.26	+ 1 2.5	2.351	3.335	2.5	19.9
3 12	11 5.57	+ 5 43.8	1.442	2.432	2.6	20.8	3 12	11 6.72	+ 2 16.5	2.341	3.331	1.7	19.9
3 22	10 56.22	+ 7 4.7	1.451	2.415	7.7	21.1	3 22	10 59.47	+ 3 30.8	2.362	3.327	5.0	20.1
4 1	10 48.38	+ 8 14.5	1.486	2.398	12.4	21.3	4 1	10 53.19	+ 4 40.0	2.411	3.322	8.3	20.3
4 11	10 42.94	+ 9 7.1	1.543	2.380	16.5	21.5	4 11	10 48.44	+ 5 39.5	2.486	3.317	11.2	20.5
<b>104734</b>	2000 HU <sub>2</sub>		3 6.9 154°48	2°3/ 4.4 18			<b>68638</b>	2002 CO <sub>30</sub>		3 6.9 257°75	5°2/ 1.4 18		
2 1	11 35.89	+10 1.2	2.272	3.095	11.7	20.4	2 1	11 32.97	+16 13.6	1.896	2.742	12.7	19.7
2 11	11 30.51	+10 52.7	2.199	3.104	8.7	20.3	2 11	11 28.82	+17 39.9	1.824	2.738	9.6	19.5
2 21	11 23.30	+11 50.5	2.152	3.112	5.3	20.1	2 21	11 22.51	+19 10.2	1.777	2.733	6.6	19.3
3 2	11 14.87	+12 49.0	2.135	3.119	2.5	19.9	3 2	11 14.68	+20 35.6	1.758	2.729	5.2	19.2
3 12	11 6.06	+13 42.0	2.147	3.126	3.7	20.0	3 12	11 6.29	+21 47.3	1.766	2.724	6.9	19.3
3 22	10 57.71	+14 24.5	2.188	3.132	7.0	20.2	3 22	10 58.37	+22 38.7	1.802	2.720	10.1	19.5
4 1	10 50.60	+14 53.1	2.257	3.138	10.2	20.4	4 1	10 51.87	+23 6.5	1.861	2.715	13.3	19.7
4 11	10 45.32	+15 6.4	2.349	3.142	12.9	20.6	4 11	10 47.49	+23 10.8	1.941	2.710	16.1	19.9
<b>172379</b>	2003 AO <sub>7</sub>		3 6.9 88°27	5°5/ 14.3 18			<b>353235</b>	2010 CO <sub>47</sub>		3 6.9 187°67	4°8/ 28.6 17		
2 1	11 31.66	-16 45.0	2.452	3.161	14.1	20.1	2 1	11 31.77	+21 32.7	2.977	3.809	9.0	21.5
2 11	11 27.25	-16 41.9	2.377	3.183	11.9	20.0	2 11	11 27.20	+22 51.6	2.908	3.808	6.9	21.3
2 21	11 21.24	-16 17.1	2.322	3.205	9.4	19.9	2 21	11 21.18	+24 9.1	2.866	3.807	5.3	21.2
3 2	11 14.17	-15 31.0	2.292	3.226	7.0	19.8	3 2	11 14.18	+25 19.6	2.854	3.805	4.8	21.2
3 12	11 6.79	-14 26.5	2.290	3.247	5.6	19.7	3 12	11 6.82	+26 17.6	2.872	3.803	6.0	21.3
3 22	10 59.84	-13 8.8	2.317	3.268	6.1	19.8	3 22	10 59.77	+26 59.6	2.918	3.801	8.0	21.4
4 1	10 54.01	-11 44.4	2.371	3.289	8.1	19.9	4 1	10 53.64	+27 23.9	2.989	3.798	10.0	21.5
4 11	10 49.80	-10 20.2	2.452	3.309	10.4	20.1	4 11	10 48.92	+27 30.6	3.082	3.795	11.8	21.7
<b>367822</b>	2011 BY <sub>5</sub>		3 6.9 128°56	2°4/ 4.4 18			<b>16347</b>	3256 T-3		3 6.9 158°18	0°2/ 6.7 18 R		
2 1	11 34.65	+ 9 8.9	2.074	2.902	12.5	21.6	2 1	11 32.18	+ 3 27.8	2.328	3.140	11.9	18.5
2 11	11 29.72	+10 9.9	2.007	2.914	9.2	21.5	2 11	11 27.75	+ 4 3.6	2.247	3.143	8.9	18.3
2 21	11 22.86	+11 18.6	1.965	2.926	5.6	21.3	2 21	11 21.63	+ 4 50.1	2.189	3.146	5.5	18.1
3 2	11 14.73	+12 28.8	1.952	2.937	2.6	21.1	3 2	11 14.35	+ 5 43.4	2.160	3.148	1.8	17.9
3 12	11 6.22	+13 33.2	1.968	2.948	3.9	21.2	3 12	11 6.67	+ 6 38.2	2.161	3.150	2.0	17.9
3 22	10 58.23	+14 26.0	2.013	2.959	7.4	21.4	3 22	10 59.36	+ 7 29.3	2.191	3.153	5.7	18.2
4 1	10 51.57	+15 3.4	2.085	2.969	10.8	21.6	4 1	10 53.15	+ 8 12.0	2.249	3.154	9.1	18.4
4 11	10 46.84	+15 23.6	2.179	2.978	13.6	21.8	4 11	10 48.60	+ 8 43.3	2.331	3.156	12.0	18.6
<b>426639</b>	2013 SE <sub>71</sub>		3 6.9 197°56	0°3/ 7.3 17			<b>206131</b>	2002 SU <sub>54</sub>		3 6.9 77°04	2°8/ 10.3 18		
2 1	11 33.92	+ 1 39.3	2.440	3.240	11.8	22.3	2 1	11 30.76	- 7 25.8	2.130	2.904	14.1	20.0
2 11	11 29.02	+ 2 12.3	2.348	3.236	8.9	22.1	2 11	11 26.77	- 6 51.5	2.056	2.921	11.1	19.8
2 21	11 22.41	+ 2 57.1	2.280	3.232	5.6	21.9	2 21	11 21.04	- 5 57.5	2.005	2.938	7.8	19.6
3 2	11 14.60	+ 3 50.3	2.241	3.228	2.0	21.6	3 2	11 14.15	- 4 46.7	1.981	2.954	4.4	19.4
3 12	11 6.33	+ 4 46.9	2.233	3.223	1.8	21.6	3 12	11 6.90	- 3 24.5	1.985	2.971	2.9	19.4
3 22	10 58.37	+ 5 41.8	2.254	3.217	5.5	21.8	3 22	10 59.36	- 1 58.0	2.019	2.988	5.4	19.5
4 1	10 51.47	+ 6 30.0	2.304	3.210	8.9	22.0	4 1	10 54.55	- 0 34.2	2.080	3.004	8.7	19.8
4 11	10 46.20	+ 7 8.1	2.379	3.203	11.8	22.2	4 11	10 50.73	+ 0 40.6	2.167	3.021	11.8	20.0
<b>33133</b>	1998 F <sub>4</sub>		3 6.9 6°53	0°2/ 6.8 18			<b>351983</b>	2006 US <sub>107</sub>		3 6.9 108°84	5°2/ 29.6 18		
2 1	11 29.95	+ 2 22.7	1.429	2.268	16.5	18.1	2 1	11 33.76	+21 35.8	2.481	3.317	10.4	20.8
2 11	11 27.01	+ 3 3.5	1.358	2.268	12.5	17.9	2 11	11 28.85	+22 35.6	2.421	3.324	8.0	20.7
2 21	11 21.58	+ 4 2.8	1.308	2.269	7.8	17.6	2 21	11 22.25	+23 32.9	2.387	3.331	6.0	20.6
3 2	11 14.39	+ 5 14.5	1.283	2.271	2.6	17.3	3 2	11 14.54	+24 21.3	2.381	3.338	5.3	20.5
3 12	11 6.58	+ 6 29.7	1.284	2.274	2.8	17.3	3 12	11 6.51	+24 55.6	2.403	3.344	6.5	20.6
3 22	10 59.35	+ 7 39.0	1.311	2.278	8.0	17.6	3 22	10 58.96	+25 12.5	2.453	3.351	8.7	20.8
4 1	10 53.83	+ 8 34.6	1.362	2.283	12.6	17.9	4 1	10 52.59	+25 11.0	2.529	3.357	11.0	20.9
4 11	10 50.76	+ 9 11.4	1.434	2.288	16.6	18.2	4 11	10 47.94	+24 51.8	2.625	3.363	13.1	21.1
<b>331623</b>	2002 CS <sub>130</sub>		3 6.9 48°26	2°8/ 3.7 18			<b>29138</b>	1988 BE <sub>4</sub>		3 6.9 93°76	1°1/ 5.7 18		
2 1	11 29.91	+ 6 8.1	1.794	2.630	13.8	20.4	2 1	11 31.26	+ 5 1.4	2.260	3.079	11.9	18.6
2 11	11 26.55	+ 8 5.8	1.721	2.633	10.1	20.1	2 11	11 27.04	+ 6 1.9	2.192	3.094	8.8	18.5
2 21	11 21.11	+10 19.2	1.674	2.637	6.1	19.9	2 21	11 21.16	+ 7 12.6	2.150	3.109	5.3	18.3
3 2	11 14.20	+12 38.6	1.655	2.640	2.9	19.7	3 2	11 14.18	+ 8 28.1	2.136	3.124	1.8	18.0
3 12	11 6.77	+14 52.4	1.666	2.644	4.8	19.8	3 12	11 6.87	+ 9 42.1	2.152	3.138	2.7	18.1
3 22	10 59.79	+16 50.0	1.706	2.648	8.7	20.1	3 22	11 0.01	+10 48.5	2.198	3.153	6.2	18.4
4 1	10 54.19	+18 24.3	1.771	2.652	12.5	20.3	4 1	10 54.31	+11 42.7	2.271	3.167	9.4	18.6
4 11	10 50.64	+19 31.9	1.858	2.655	15.7	20.5	4 11	10 50.27	+12 21.9	2.367	3.181	12.2	18.8
<b>31278</b>	1998 FK <sub>30</sub>		3 6.9 65°93	0°8/ 7.7 18			<b>227573</b>	2005 YO <sub>221</sub>		3 6.9 211°81	0°7/ 6.3 17		
2 1	11 39.44	+ 1 21.7	1.689	2.498	15.7	18.1	2 1	11 34.58	+ 5 12.1	2.012	2.831	13.2	21.2
2 11	11 33.36	+ 1 33.6	1.641	2.534	11.9	17.9	2 11	11 29.85	+ 5 42.6	1.927	2.829	9.9	21.0
2 21	11 25.08	+ 1 59.7	1.616	2.569	7.5	17.7	2 21	11 23.08	+ 6 23.9	1.867	2.826	6.1	20.8
3 2	11 15.45	+ 2 35.5	1.618	2.604	2.8	17.5	3 2	11 14.88	+ 7 11.5	1.834	2.822	2.0	20.5
3 12	11 5.61	+ 3 15.1	1.648	2.638	2.2	17.5	3 12	11 6.14	+ 7 59.4	1.831	2.819	2.6	20.5
3 22	10 56.65	+ 3 52.4	1.706	2.672	6.6	17.9	3 22	10 57.82	+ 8 41.9	1.856	2.815	6.7	20.8
4 1	10 49.47	+ 4 22.4	1.791	2.706	10.5	18.2	4 1	10 50.81	+ 9 14.3	1.907	2.812	10.5	21.0
4 11	10 44.62	+ 4 41.8	1.899	2.739	13.8	18.5	4 11	10 45.78	+ 9 33.3	1.982	2.807	13.8	21.2
<b>377370</b>	2004 RW <sub>152</sub>		3 6.9 195°06	2°4/ 9.8 17			<b>413018</b>	2000 SN <sub>93</sub>		3 6.9 100°07	3°4/ 10.9 18		
2 1	11 32.75	- 5 43.3	2.431	3.202	12.6	22.2							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>58853</b>	1998 <i>HD</i> <sub>85</sub>		3 6.9 261°04	0°8/ 7.9 18			<b>27449</b>	Jamarkley		3 6.9 229°50	0°9/ 5.9 18		
2 1	11 30.39	+ 0 4.9	2.481	3.280	11.6	19.7	2 1	11 32.84	+ 6 5.9	2.366	3.183	11.5	19.9
2 11	11 26.42	+ 0 33.6	2.383	3.271	8.9	19.5	2 11	11 28.30	+ 6 39.1	2.276	3.177	8.6	19.7
2 21	11 20.83	+ 1 14.9	2.310	3.261	5.7	19.2	2 21	11 22.02	+ 7 21.1	2.212	3.170	5.3	19.5
3 2	11 14.11	+ 2 5.8	2.265	3.250	2.3	19.0	3 2	11 14.53	+ 8 7.8	2.176	3.163	1.8	19.2
3 12	11 6.92	+ 3 2.0	2.250	3.240	1.7	18.9	3 12	11 6.57	+ 8 54.2	2.169	3.157	2.5	19.2
3 22	10 59.99	+ 3 58.3	2.264	3.230	5.2	19.2	3 22	10 58.94	+ 9 35.2	2.192	3.149	6.1	19.5
4 1	10 54.03	+ 4 49.7	2.306	3.219	8.5	19.3	4 1	10 52.38	+10 6.9	2.243	3.142	9.4	19.7
4 11	10 49.60	+ 5 32.2	2.373	3.209	11.5	19.5	4 11	10 47.49	+10 26.5	2.318	3.134	12.4	19.8
<b>43529</b>	2001 <i>DF</i> <sub>65</sub>		3 6.9 245°21	0°6/ 6.4 18			<b>284781</b>	2008 <i>YK</i> <sub>13</sub>		3 6.9 338°76	4°6/ 11.3 17		
2 1	11 32.25	+ 4 6.9	2.022	2.842	13.1	19.7	2 1	11 33.42	- 8 55.4	2.121	2.883	14.5	20.8
2 11	11 28.09	+ 4 47.2	1.939	2.840	9.8	19.4	2 11	11 28.97	- 9 21.3	2.030	2.881	11.9	20.7
2 21	11 21.98	+ 5 39.7	1.880	2.838	6.0	19.2	2 21	11 22.56	- 9 29.6	1.961	2.879	8.8	20.5
3 2	11 14.51	+ 6 39.7	1.848	2.836	2.0	18.9	3 2	11 14.74	- 9 19.9	1.916	2.877	5.9	20.3
3 12	11 6.53	+ 7 40.8	1.846	2.834	2.5	19.0	3 12	11 6.35	- 8 54.5	1.900	2.875	4.6	20.2
3 22	10 58.95	+ 8 36.7	1.872	2.832	6.6	19.2	3 22	10 58.30	- 8 17.4	1.911	2.874	6.3	20.3
4 1	10 52.64	+ 9 22.1	1.924	2.830	10.4	19.4	4 1	10 51.46	- 7 34.3	1.950	2.872	9.3	20.5
4 11	10 48.22	+ 9 53.4	2.000	2.828	13.6	19.6	4 11	10 46.50	- 6 51.3	2.012	2.871	12.3	20.6
<b>351502</b>	2005 <i>RA</i> <sub>4</sub>		3 6.9 140°31	1°4/ 5.6 18			<b>500321</b>	2012 <i>RD</i> <sub>35</sub>		3 6.9 144°34	3°0/ 10.9 17		
2 1	11 37.31	+ 4 42.4	1.741	2.562	14.8	21.5	2 1	11 30.32	- 8 55.9	2.567	3.323	12.4	21.7
2 11	11 32.05	+ 5 51.1	1.673	2.576	11.0	21.3	2 11	11 26.26	- 8 26.0	2.478	3.329	10.0	21.5
2 21	11 24.48	+ 7 13.9	1.629	2.588	6.7	21.0	2 21	11 20.67	- 7 38.4	2.412	3.336	7.2	21.4
3 2	11 15.35	+ 8 43.6	1.612	2.600	2.3	20.8	3 2	11 14.05	- 6 35.0	2.374	3.341	4.4	21.2
3 12	11 5.72	+10 11.1	1.625	2.611	3.4	20.9	3 12	11 7.07	- 5 19.9	2.365	3.347	3.0	21.1
3 22	10 56.73	+11 27.9	1.666	2.621	7.8	21.2	3 22	11 0.42	- 3 58.5	2.386	3.353	4.9	21.2
4 1	10 49.35	+12 27.9	1.734	2.630	11.9	21.4	4 1	10 54.74	- 2 37.1	2.436	3.358	7.7	21.4
4 11	10 44.28	+13 8.1	1.823	2.638	15.3	21.7	4 11	10 50.55	- 1 21.2	2.512	3.362	10.5	21.6
<b>167600</b>	2004 <i>BW</i> <sub>120</sub>		3 6.9 18°92	9°3/ 25.6 18			<b>332710</b>	2009 <i>SW</i> <sub>73</sub>		3 6.9 97°64	3°2/ 3.9 18		
2 1	11 31.79	+27 10.2	1.719	2.573	13.4	18.8	2 1	11 35.95	+12 8.3	1.940	2.774	13.0	21.1
2 11	11 28.18	+29 4.7	1.676	2.578	11.0	18.7	2 11	11 30.79	+12 59.3	1.879	2.788	9.6	20.9
2 21	11 22.18	+30 51.3	1.656	2.584	9.4	18.6	2 21	11 23.58	+13 55.3	1.843	2.803	6.0	20.7
3 2	11 14.58	+32 18.6	1.662	2.591	9.5	18.6	3 2	11 15.03	+14 49.5	1.834	2.816	3.3	20.6
3 12	11 6.51	+33 17.8	1.692	2.598	11.2	18.7	3 12	11 6.12	+15 35.0	1.854	2.830	4.7	20.7
3 22	10 59.13	+33 45.0	1.746	2.606	13.5	18.9	3 22	10 57.83	+16 6.8	1.903	2.844	8.1	20.9
4 1	10 53.45	+33 40.2	1.820	2.615	16.0	19.1	4 1	10 51.02	+16 22.1	1.977	2.857	11.4	21.2
4 11	10 50.13	+33 7.2	1.911	2.624	18.1	19.2	4 11	10 46.29	+16 20.2	2.073	2.870	14.3	21.4
<b>407299</b>	2010 <i>KB</i> <sub>88</sub>		3 6.9 145°08	4°6/ 2.7 18			<b>987</b>	Wallia		3 6.9 194°29	1°3/ 8.7 18		
2 1	11 41.37	+17 49.8	2.166	2.992	12.1	21.6	2 1	11 32.44	- 1 31.7	3.097	3.875	10.0	15.5
2 11	11 34.65	+18 36.7	2.103	3.005	9.1	21.4	2 11	11 27.59	- 1 22.7	2.999	3.872	7.8	15.4
2 21	11 25.88	+19 23.1	2.065	3.017	6.2	21.3	2 21	11 21.40	- 1 3.8	2.928	3.869	5.1	15.2
3 2	11 15.78	+20 2.3	2.056	3.027	4.6	21.2	3 2	11 14.29	- 0 36.7	2.885	3.866	2.4	15.0
3 12	11 5.33	+20 28.5	2.078	3.038	5.8	21.3	3 12	11 6.83	- 0 4.2	2.873	3.862	1.7	14.9
3 22	10 55.52	+20 38.0	2.127	3.047	8.6	21.4	3 22	10 59.60	+ 0 30.2	2.892	3.857	4.2	15.1
4 1	10 47.24	+20 29.8	2.204	3.056	11.5	21.6	4 1	10 53.19	+ 1 3.2	2.940	3.852	6.9	15.3
4 11	10 41.07	+20 4.8	2.302	3.064	14.1	21.8	4 11	10 48.05	+ 1 31.7	3.014	3.847	9.4	15.4
<b>496029</b>	2008 <i>SL</i> <sub>60</sub>		3 6.9 185°55	4°9/ 13.5 17			<b>424783</b>	2008 <i>TD</i> <sub>150</sub>		3 6.9 162°83	0°1/ 6.8 17		
2 1	11 33.46	-15 36.4	2.985	3.684	12.0	21.9	2 1	11 32.67	+ 2 42.2	2.283	3.092	12.2	21.8
2 11	11 28.47	-15 43.2	2.883	3.684	10.1	21.8	2 11	11 28.17	+ 3 21.5	2.201	3.096	9.2	21.6
2 21	11 22.00	-15 32.8	2.803	3.683	8.0	21.6	2 21	11 21.93	+ 4 12.5	2.143	3.099	5.7	21.4
3 2	11 14.49	-15 4.9	2.749	3.682	6.0	21.5	3 2	11 14.49	+ 5 11.2	2.114	3.102	1.9	21.1
3 12	11 6.57	-14 21.2	2.724	3.680	4.9	21.4	3 12	11 6.64	+ 6 12.0	2.115	3.104	2.0	21.1
3 22	10 58.89	-13 25.0	2.729	3.677	5.6	21.5	3 22	10 59.16	+ 7 9.2	2.145	3.106	5.8	21.4
4 1	10 52.09	-12 21.1	2.762	3.673	7.4	21.6	4 1	10 52.82	+ 7 58.0	2.202	3.108	9.2	21.6
4 11	10 46.69	-11 15.0	2.823	3.669	9.6	21.7	4 11	10 48.18	+ 8 34.8	2.284	3.110	12.2	21.8
<b>148779</b>	2001 <i>UJ</i> <sub>18</sub>		3 6.9 63°59	2°7/ 4.6 18			<b>152406</b>	2005 <i>UM</i> <sub>319</sub>		3 6.9 78°85	0°1/ 7.1 18		
2 1	11 34.81	+ 9 51.7	1.745	2.583	14.0	20.2	2 1	11 34.56	+ 2 44.3	1.797	2.616	14.5	20.7
2 11	11 30.25	+10 39.0	1.673	2.585	10.4	19.9	2 11	11 29.99	+ 3 7.5	1.723	2.621	11.0	20.5
2 21	11 23.42	+11 34.7	1.625	2.587	6.4	19.7	2 21	11 23.22	+ 3 44.1	1.671	2.627	6.9	20.2
3 2	11 15.01	+12 31.9	1.604	2.589	3.0	19.5	3 2	11 14.96	+ 4 29.8	1.646	2.633	2.4	19.9
3 12	11 6.07	+13 23.0	1.610	2.592	4.4	19.6	3 12	11 6.19	+ 5 18.6	1.649	2.639	2.3	20.0
3 22	10 57.69	+14 1.6	1.644	2.594	8.4	19.8	3 22	10 57.95	+ 6 4.1	1.680	2.645	6.8	20.2
4 1	10 50.86	+14 23.5	1.703	2.596	12.2	20.1	4 1	10 51.20	+ 6 40.6	1.737	2.651	10.8	20.5
4 11	10 46.29	+14 27.3	1.784	2.598	15.6	20.3	4 11	10 46.60	+ 7 4.5	1.817	2.657	14.3	20.7
<b>337550</b>	2001 <i>SX</i> <sub>258</sub>		3 6.9 96°48	2°1/ 9.6 18			<b>241827</b>	2001 <i>SR</i> <sub>209</sub>		3 6.9 86°81	0°8/ 6.1 18 R		
2 1	11 30.56	- 5 24.1	2.401	3.178	12.6	21.2	2 1	11 32.95	+ 5 28.8	2.322	3.138	11.7	20.8
2 11	11 26.45	- 4 49.2	2.324	3.193	9.8	21.0	2 11	11 28.23	+ 6 4.4	2.256	3.156	8.7	20.7
2 21	11 20.78	- 3 58.1	2.271	3.208	6.7	20.8	2 21	11 21.87	+ 6 48.5	2.216	3.174	5.3	20.5
3 2	11 14.07	- 2 53.5	2.245	3.222	3.5	20.6	3 2	11 14.45	+ 7 36.9	2.204	3.192	1.7	20.3
3 12	11 7.03	- 1 40.3	2.248	3.236	2.3	20.6	3 12	11 6.74	+ 8 24.3	2.222	3.210	2.3	20.3
3 22	11 0.39	- 0 24.5	2.282	3.250	4.9	20.8	3 22	10 59.50	+ 9 6.0	2.269	3.227	5.8	20.6
4 1	10 54.82	+ 0 48.2	2.344	3.264	8.1	21.0	4 1	10 53.43	+ 9 38.3	2.344	3.244	9.0	20.8
4 11	10 50.81	+ 1 52.6	2.431	3.278	10.9	21.2	4 11	10 49.03	+ 9 58.8	2.442	3.261	11.7	21.0
<b>372516</b>	2009 <i>SH</i> <sub>297</sub>		3 6.9 175°46	0°6/ 6.4 17			<b>286073</b>	2001 <i>SQ</i> <sub>349</sub>		3 6.9 97°39	3°0/ 3.9 17		
2 1	11 3												

EPHEMERIDES

3 6.9

3 6.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>437142</b>	2012 VM <sub>10</sub>		3 6.9 250°82	3°8/11.3 17			<b>464952</b>	2005 VZ <sub>81</sub>		3 6.9 114°45	3°5/10.9 18		
2 1	11 31.04	- 9 3.4	2.388	3.146	13.2	21.1	2 1	11 32.78	- 9 16.5	2.091	2.854	14.7	21.4
2 11	11 26.99	- 9 3.2	2.292	3.142	10.7	21.0	2 11	11 28.37	- 8 47.2	2.013	2.868	11.8	21.2
2 21	11 21.24	- 8 45.4	2.218	3.138	7.9	20.8	2 21	11 22.10	- 7 56.4	1.958	2.883	8.4	21.0
3 2	11 14.29	- 8 10.8	2.171	3.134	5.1	20.6	3 2	11 14.59	- 6 46.5	1.928	2.896	5.1	20.9
3 12	11 6.86	- 7 22.4	2.151	3.130	3.8	20.5	3 12	11 6.66	- 5 22.7	1.927	2.910	3.5	20.8
3 22	10 59.71	- 6 24.8	2.161	3.126	5.5	20.6	3 22	10 59.21	- 3 52.1	1.955	2.923	5.7	20.9
4 1	10 53.61	- 5 23.7	2.199	3.122	8.4	20.8	4 1	10 53.03	- 2 22.4	2.012	2.936	9.0	21.2
4 11	10 49.12	- 4 25.1	2.261	3.118	11.2	20.9	4 11	10 48.69	- 1 0.5	2.093	2.948	12.1	21.4
<b>455429</b>	2003 QG <sub>31</sub>		3 6.9 87°45	5°1/11.2 18			<b>226930</b>	2004 TK <sub>279</sub>		3 6.9 160°76	2°2/ 9.2 17		
2 1	11 40.47	- 9 4.6	1.701	2.465	17.5	21.3	2 1	11 32.58	- 3 55.7	2.036	2.826	14.1	20.8
2 11	11 34.37	- 9 28.8	1.640	2.493	14.1	21.2	2 11	11 28.35	- 3 35.9	1.950	2.827	11.0	20.6
2 21	11 25.88	- 9 30.7	1.600	2.521	10.3	21.0	2 21	11 22.17	- 2 58.5	1.887	2.829	7.5	20.4
3 2	11 15.84	- 9 10.5	1.585	2.547	6.7	20.8	3 2	11 14.64	- 2 6.2	1.851	2.830	3.8	20.1
3 12	11 5.39	- 8 32.2	1.597	2.574	5.1	20.8	3 12	11 6.59	- 1 3.7	1.843	2.831	2.5	20.1
3 22	10 55.72	- 7 42.0	1.637	2.600	7.1	21.0	3 22	10 58.94	+ 0 2.4	1.863	2.832	5.8	20.3
4 1	10 47.83	- 6 47.6	1.703	2.625	10.5	21.2	4 1	10 52.54	+ 1 5.5	1.912	2.833	9.5	20.5
4 11	10 42.38	- 5 56.4	1.793	2.650	13.7	21.5	4 11	10 48.04	+ 2 0.1	1.984	2.834	12.8	20.7
<b>498962</b>	2009 BM <sub>104</sub>		3 6.9 41°22	2°3/ 9.1 17			<b>5741</b>	Akanemaru		3 6.9 131°33	1°5/ 5.4 18		
2 1	11 34.04	- 2 25.2	2.180	2.969	13.3	21.2	2 1	11 33.60	+ 7 31.0	2.237	3.060	11.9	17.7
2 11	11 29.29	- 2 34.8	2.095	2.972	10.4	21.0	2 11	11 28.87	+ 8 13.7	2.164	3.067	8.8	17.5
2 21	11 22.68	- 2 30.9	2.034	2.975	7.1	20.8	2 21	11 22.37	+ 9 4.5	2.115	3.075	5.4	17.3
3 2	11 14.78	- 2 15.0	1.999	2.978	3.7	20.6	3 2	11 14.67	+ 9 58.3	2.095	3.082	2.0	17.1
3 12	11 6.40	- 1 50.6	1.993	2.981	2.6	20.5	3 12	11 6.60	+10 49.4	2.104	3.089	3.0	17.2
3 22	10 58.42	- 1 21.7	2.016	2.984	5.5	20.7	3 22	10 58.96	+11 32.6	2.143	3.095	6.5	17.4
4 1	10 51.64	- 0 53.2	2.067	2.987	9.0	21.0	4 1	10 52.52	+12 4.2	2.208	3.102	9.8	17.6
4 11	10 46.67	- 0 29.4	2.142	2.991	12.1	21.2	4 11	10 47.85	+12 21.9	2.297	3.108	12.7	17.8
<b>175401</b>	2006 OA <sub>9</sub>		3 6.9 196°29	0°5/ 7.4 18			<b>330408</b>	2007 BL <sub>38</sub>		3 6.9 103°16	1°0/ 8.0 18		
2 1	11 36.16	+ 1 23.5	2.067	2.870	13.5	21.4	2 1	11 36.13	- 0 40.1	2.035	2.831	13.9	21.7
2 11	11 31.03	+ 1 50.4	1.978	2.868	10.3	21.2	2 11	11 30.79	- 0 10.7	1.970	2.855	10.6	21.5
2 21	11 23.84	+ 2 30.8	1.913	2.865	6.5	21.0	2 21	11 23.54	+ 0 33.2	1.929	2.878	6.8	21.3
3 2	11 15.19	+ 3 21.3	1.875	2.861	2.4	20.7	3 2	11 15.06	+ 1 27.8	1.915	2.900	2.8	21.1
3 12	11 5.97	+ 4 16.2	1.866	2.857	2.0	20.7	3 12	11 6.25	+ 2 27.3	1.931	2.922	2.0	21.1
3 22	10 57.14	+ 5 9.6	1.888	2.852	6.2	20.9	3 22	10 58.02	+ 3 25.6	1.977	2.943	5.8	21.4
4 1	10 49.59	+ 5 55.8	1.936	2.846	10.1	21.2	4 1	10 51.19	+ 4 17.0	2.050	2.963	9.4	21.6
4 11	10 44.02	+ 6 30.7	2.009	2.840	13.5	21.4	4 11	10 46.31	+ 4 57.5	2.147	2.983	12.5	21.9
<b>112369</b>	2002 NV <sub>19</sub>		3 6.9 194°01	0°2/ 6.8 18			<b>351480</b>	2005 QV <sub>39</sub>		3 6.9 224°27	4°3/ 12.1 18		
2 1	11 35.27	+ 2 51.7	2.063	2.873	13.2	20.2	2 1	11 33.70	-11 34.3	2.942	3.668	11.6	21.5
2 11	11 30.36	+ 3 31.9	1.976	2.871	10.0	20.0	2 11	11 28.73	-11 57.1	2.835	3.659	9.7	21.3
2 21	11 23.42	+ 4 25.3	1.913	2.869	6.2	19.8	2 21	11 22.24	-12 5.4	2.750	3.649	7.4	21.1
3 2	11 15.05	+ 5 27.4	1.878	2.866	2.1	19.5	3 2	11 14.65	-11 59.0	2.692	3.639	5.3	21.0
3 12	11 6.13	+ 6 31.9	1.873	2.862	2.3	19.5	3 12	11 6.59	-11 39.1	2.664	3.629	4.3	20.9
3 22	10 57.60	+ 7 32.5	1.897	2.858	6.5	19.8	3 22	10 58.72	-11 8.5	2.665	3.619	5.3	21.0
4 1	10 50.35	+ 8 23.4	1.948	2.853	10.3	20.0	4 1	10 51.69	-10 31.1	2.695	3.608	7.5	21.1
4 11	10 45.05	+ 9 0.7	2.023	2.847	13.6	20.2	4 11	10 46.04	- 9 51.3	2.751	3.596	9.8	21.2
<b>337734</b>	2001 UJ <sub>70</sub>		3 6.9 140°74	0°4/ 6.6 17			<b>111209</b>	2001 WB <sub>31</sub>		3 6.9 184°95	1°5/ 5.5 18		
2 1	11 32.33	+ 4 23.5	2.483	3.293	11.2	21.8	2 1	11 37.61	+ 6 18.9	1.998	2.815	13.3	21.1
2 11	11 27.77	+ 4 53.0	2.402	3.299	8.4	21.6	2 11	11 32.17	+ 7 12.4	1.915	2.816	10.0	20.9
2 21	11 21.62	+ 5 31.5	2.347	3.304	5.2	21.4	2 21	11 24.58	+ 8 17.1	1.857	2.816	6.1	20.7
3 2	11 14.40	+ 6 15.4	2.321	3.308	1.7	21.1	3 2	11 15.47	+ 9 27.2	1.827	2.815	2.2	20.4
3 12	11 6.81	+ 7 0.1	2.324	3.313	2.0	21.2	3 12	11 5.80	+10 35.3	1.827	2.813	3.3	20.5
3 22	10 59.59	+ 7 41.0	2.357	3.317	5.5	21.4	3 22	10 56.57	+11 34.7	1.857	2.810	7.3	20.7
4 1	10 53.42	+ 8 14.2	2.418	3.322	8.6	21.6	4 1	10 48.73	+12 20.3	1.913	2.806	11.1	20.9
4 11	10 48.82	+ 8 37.0	2.504	3.326	11.4	21.8	4 11	10 42.98	+12 49.2	1.993	2.801	14.4	21.1
<b>366848</b>	2005 QZ <sub>178</sub>		3 6.9 176°95	2°1/ 4.7 16			<b>87346</b>	2000 QZ <sub>27</sub>		3 6.9 130°79	0°6/ 6.5 18		
2 1	11 35.45	+ 9 27.6	2.318	3.139	11.6	22.4	2 1	11 39.38	+ 6 24.1	2.082	2.894	13.1	19.9
2 11	11 30.24	+10 17.0	2.238	3.142	8.6	22.2	2 11	11 33.28	+ 6 29.9	2.007	2.903	9.8	19.7
2 21	11 23.22	+11 13.3	2.184	3.143	5.3	22.0	2 21	11 25.13	+ 6 43.3	1.956	2.912	6.0	19.5
3 2	11 14.96	+12 11.0	2.159	3.145	2.4	21.8	3 2	11 15.62	+ 7 0.8	1.933	2.921	2.0	19.2
3 12	11 6.26	+13 4.3	2.165	3.145	3.5	21.9	3 12	11 5.68	+ 7 17.8	1.941	2.929	2.4	19.2
3 22	10 57.97	+13 48.0	2.199	3.145	6.9	22.1	3 22	10 56.29	+ 7 30.3	1.978	2.937	6.4	19.5
4 1	10 50.86	+14 18.6	2.262	3.144	10.1	22.3	4 1	10 48.33	+ 7 35.1	2.042	2.945	10.0	19.7
4 11	10 45.53	+14 34.2	2.347	3.143	12.9	22.5	4 11	10 42.41	+ 7 30.2	2.130	2.952	13.1	20.0
<b>375912</b>	2009 WY <sub>14</sub>		3 6.9 65°71	0°0/ 6.8 17			<b>433009</b>	2012 RY <sub>15</sub>		3 6.9 146°28	3°3/ 10.9 17		
2 1	11 32.44	+ 2 6.1	1.864	2.682	14.1	21.5	2 1	11 33.48	- 8 5.2	2.713	3.464	11.9	21.8
2 11	11 28.34	+ 2 43.9	1.789	2.688	10.6	21.3	2 11	11 28.54	- 8 11.5	2.625	3.472	9.6	21.6
2 21	11 22.19	+ 3 36.2	1.738	2.694	6.6	21.1	2 21	11 22.08	- 8 3.4	2.560	3.480	7.0	21.5
3 2	11 14.63	+ 4 38.1	1.713	2.700	2.3	20.8	3 2	11 14.58	- 7 41.6	2.523	3.487	4.5	21.3
3 12	11 6.60	+ 5 43.1	1.716	2.706	2.2	20.8	3 12	11 6.71	- 7 8.6	2.516	3.494	3.4	21.2
3 22	10 59.06	+ 6 44.0	1.748	2.713	6.6	21.1	3 22	10 59.16	- 6 28.1	2.538	3.501	4.9	21.4
4 1	10 52.90	+ 7 35.0	1.806	2.719	10.5	21.3	4 1	10 52.58	- 5 44.6	2.589	3.507	7.5	21.5
4 11	10 48.77	+ 8 12.0	1.887	2.725	13.9	21.6	4 11	10 47.48	- 5 2.7	2.666	3.513	10.0	21.7
<b>203301</b>	2001 SZ <sub>235</sub>		3 6.9 207°83	0°8/ 7.7 18			<b>453245</b>	2008 SV <sub>28</sub>		3 6.9 133°73	1°1/ 8.0 18		
2 1	11 36.20	- 0 21.3	1.817	2.621	15.0	2							

EPHEMERIDES

3 6.9

3 7.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>459016</b>	2011 YX <sub>24</sub>		3 6.9 83°35	2°5/ 4.9 18			<b>239009</b>	2006 DW <sub>22</sub>		3 6.9 207°94	1°2/ 5.7 17		
2 1	11 36.69	+ 8 10.3	1.576	2.412	15.3	22.0	2 1	11 32.50	+ 5 49.2	2.123	2.945	12.5	21.0
2 11	11 31.71	+ 9 8.2	1.520	2.431	11.3	21.8	2 11	11 28.24	+ 6 38.1	2.040	2.943	9.3	20.8
2 21	11 24.32	+10 16.3	1.488	2.450	6.9	21.6	2 21	11 22.10	+ 7 37.8	1.981	2.941	5.7	20.6
3 2	11 15.36	+11 26.7	1.482	2.469	2.9	21.4	3 2	11 14.64	+ 8 43.0	1.951	2.938	1.9	20.3
3 12	11 5.99	+12 30.5	1.504	2.487	4.3	21.5	3 12	11 6.70	+ 9 47.4	1.949	2.936	2.9	20.4
3 22	10 57.41	+13 20.6	1.553	2.506	8.5	21.8	3 22	10 59.14	+10 44.7	1.977	2.933	6.7	20.6
4 1	10 50.62	+13 52.4	1.627	2.524	12.5	22.1	4 1	10 52.78	+11 30.0	2.032	2.930	10.3	20.8
4 11	10 46.25	+14 4.7	1.723	2.541	15.9	22.4	4 11	10 48.25	+12 0.3	2.109	2.927	13.4	21.0
<b>131135</b>	2001 BW <sub>46</sub>		3 6.9 8°13	6°0/12.1 18			<b>380137</b>	1999 RK <sub>207</sub>		3 7.0 196°40	1°8/ 8.8 17		
2 1	11 28.68	-10 20.6	1.407	2.200	19.1	18.8	2 1	11 36.69	- 1 35.0	2.542	3.321	11.9	21.4
2 11	11 26.20	-10 40.3	1.333	2.202	15.7	18.6	2 11	11 31.09	- 1 38.6	2.446	3.318	9.3	21.2
2 21	11 21.20	-10 32.0	1.278	2.205	11.8	18.4	2 21	11 23.76	- 1 30.7	2.374	3.315	6.2	21.0
3 2	11 14.39	- 9 55.4	1.245	2.209	8.0	18.2	3 2	11 15.21	- 1 13.0	2.331	3.311	3.0	20.7
3 12	11 6.90	- 8 54.8	1.236	2.215	6.0	18.1	3 12	11 6.18	- 0 48.4	2.318	3.306	2.1	20.7
3 22	10 59.98	- 7 38.2	1.252	2.222	7.9	18.2	3 22	10 57.44	- 0 20.8	2.336	3.301	5.1	20.9
4 1	10 54.75	- 6 16.0	1.292	2.230	11.6	18.4	4 1	10 49.76	+ 0 6.0	2.382	3.296	8.3	21.1
4 11	10 52.01	- 4 58.7	1.353	2.239	15.5	18.7	4 11	10 43.71	+ 0 28.2	2.455	3.289	11.2	21.2
<b>299352</b>	2005 SQ <sub>225</sub>		3 6.9 101°96	3°9/12.4 17			<b>208975</b>	2002 YE		3 7.0 30°43	5°8/29.9 18		
2 1	11 29.53	-11 54.2	2.732	3.468	12.2	21.8	2 1	11 31.14	+17 39.4	1.760	2.614	13.2	19.5
2 11	11 25.60	-11 40.0	2.646	3.479	10.0	21.7	2 11	11 27.49	+19 6.9	1.710	2.626	9.9	19.3
2 21	11 20.25	-11 8.3	2.582	3.489	7.5	21.5	2 21	11 21.70	+20 35.2	1.683	2.638	7.0	19.2
3 2	11 13.96	-10 20.3	2.545	3.500	5.1	21.4	3 2	11 14.51	+21 55.1	1.684	2.652	5.8	19.1
3 12	11 7.35	- 9 18.9	2.537	3.510	3.9	21.3	3 12	11 6.93	+22 57.9	1.711	2.665	7.5	19.2
3 22	11 1.06	- 8 8.9	2.558	3.520	5.0	21.4	3 22	10 59.99	+23 38.3	1.765	2.680	10.4	19.4
4 1	10 55.68	- 6 55.6	2.608	3.530	7.3	21.6	4 1	10 54.57	+23 54.1	1.841	2.695	13.4	19.7
4 11	10 51.71	- 5 44.6	2.685	3.540	9.7	21.7	4 11	10 51.27	+23 46.5	1.937	2.710	16.0	19.9
<b>50895</b>	2000 GH <sub>42</sub>		3 6.9 90°23	1°3/ 5.9 18			<b>415875</b>	2001 SE <sub>297</sub>		3 7.0 118°11	0°0/ 7.1 18		
2 1	11 37.96	+ 6 59.0	1.733	2.559	14.6	18.2	2 1	11 36.10	+ 2 37.4	1.991	2.800	13.7	21.6
2 11	11 32.50	+ 7 25.4	1.669	2.574	10.9	17.9	2 11	11 30.91	+ 3 4.9	1.920	2.814	10.3	21.4
2 21	11 24.76	+ 8 1.4	1.629	2.589	6.6	17.7	2 21	11 23.72	+ 3 44.8	1.873	2.828	6.4	21.2
3 2	11 15.51	+ 8 41.4	1.616	2.604	2.3	17.5	3 2	11 15.19	+ 4 32.7	1.854	2.841	2.2	21.0
3 12	11 5.84	+ 9 18.9	1.631	2.618	3.1	17.6	3 12	11 6.25	+ 5 23.0	1.863	2.853	2.1	21.0
3 22	10 56.87	+ 9 48.3	1.675	2.633	7.5	17.9	3 22	10 57.86	+ 6 9.7	1.902	2.866	6.2	21.3
4 1	10 49.57	+10 5.5	1.744	2.647	11.4	18.1	4 1	10 50.87	+ 6 47.9	1.968	2.877	10.0	21.5
4 11	10 44.58	+10 8.5	1.835	2.661	14.8	18.4	4 11	10 45.88	+ 7 14.2	2.058	2.889	13.2	21.7
<b>218641</b>	2005 SF <sub>25</sub>		3 6.9 87°62	0°2/ 7.2 18			<b>190331</b>	1998 RL <sub>41</sub>		3 7.0 171°46	0°7/ 7.6 18		
2 1	11 34.44	- 0 1.5	2.005	2.808	13.8	20.7	2 1	11 39.12	+ 1 0.8	1.829	2.632	14.9	20.8
2 11	11 29.51	+ 1 2.8	1.948	2.838	10.4	20.6	2 11	11 33.46	+ 1 22.2	1.747	2.637	11.4	20.6
2 21	11 22.73	+ 2 22.2	1.915	2.868	6.5	20.4	2 21	11 25.47	+ 1 58.6	1.688	2.640	7.3	20.4
3 2	11 14.79	+ 3 50.9	1.910	2.897	2.2	20.2	3 2	11 15.83	+ 2 46.1	1.657	2.643	2.8	20.1
3 12	11 6.58	+ 5 21.4	1.935	2.925	2.0	20.2	3 12	11 5.59	+ 3 38.9	1.654	2.645	2.2	20.1
3 22	10 58.97	+ 6 46.1	1.990	2.953	6.1	20.5	3 22	10 55.86	+ 4 30.2	1.681	2.646	6.7	20.3
4 1	10 52.76	+ 7 59.1	2.073	2.980	9.7	20.8	4 1	10 47.68	+ 5 14.0	1.734	2.646	10.9	20.6
4 11	10 48.44	+ 8 56.3	2.180	3.007	12.7	21.0	4 11	10 41.78	+ 5 45.9	1.811	2.646	14.6	20.8
<b>133257</b>	2003 RE <sub>20</sub>		3 6.9 82°84	0°5/ 6.4 18			<b>424668</b>	2008 RN <sub>49</sub>		3 7.0 299°93	3°2/10.0 17		
2 1	11 33.08	+ 4 4.1	1.997	2.816	13.2	20.3	2 1	11 31.79	- 5 47.7	1.854	2.643	15.3	21.0
2 11	11 28.65	+ 4 42.7	1.927	2.827	9.9	20.1	2 11	11 28.07	- 5 39.4	1.760	2.634	12.2	20.8
2 21	11 22.31	+ 5 32.9	1.881	2.839	6.1	19.9	2 21	11 22.20	- 5 10.9	1.689	2.626	8.6	20.5
3 2	11 14.68	+ 6 29.8	1.862	2.850	2.0	19.7	3 2	11 14.75	- 4 23.6	1.642	2.617	4.9	20.3
3 12	11 6.65	+ 7 27.1	1.872	2.861	2.4	19.7	3 12	11 6.64	- 3 22.1	1.623	2.609	3.3	20.2
3 22	10 59.13	+ 8 18.9	1.910	2.872	6.4	20.0	3 22	10 58.87	- 2 13.0	1.631	2.601	6.3	20.3
4 1	10 52.93	+ 9 0.1	1.976	2.883	10.1	20.2	4 1	10 52.42	- 1 3.9	1.666	2.593	10.3	20.5
4 11	10 48.64	+ 9 27.8	2.065	2.893	13.2	20.5	4 11	10 48.03	- 0 2.1	1.724	2.585	13.9	20.7
<b>2455</b>	Somville		3 6.9 101°42	3°1/ 9.8 18			<b>56371</b>	2000 EC <sub>15</sub>		3 7.0 238°85	1°1/ 6.2 18		
2 1	11 35.38	- 4 52.4	1.986	2.768	14.7	16.3	2 1	11 41.18	+ 6 48.6	1.755	2.574	14.8	18.7
2 11	11 30.45	- 5 0.5	1.907	2.777	11.6	16.1	2 11	11 35.33	+ 7 3.2	1.660	2.560	11.2	18.4
2 21	11 23.48	- 4 51.7	1.850	2.785	8.1	15.9	2 21	11 26.83	+ 7 27.8	1.588	2.546	7.0	18.2
3 2	11 15.10	- 4 27.5	1.819	2.794	4.6	15.7	3 2	11 16.36	+ 7 57.7	1.544	2.531	2.4	17.8
3 12	11 6.23	- 3 51.5	1.817	2.802	3.2	15.7	3 12	11 5.02	+ 8 26.9	1.528	2.516	3.1	17.8
3 22	10 57.83	- 3 9.0	1.843	2.811	6.0	15.8	3 22	10 54.06	+ 8 49.4	1.541	2.500	7.9	18.1
4 1	10 50.80	- 2 25.9	1.897	2.819	9.5	16.1	4 1	10 44.70	+ 9 0.8	1.580	2.483	12.4	18.3
4 11	10 45.78	- 1 47.7	1.974	2.827	12.8	16.3	4 11	10 37.83	+ 8 58.3	1.641	2.465	16.3	18.5
<b>108542</b>	2001 LZ <sub>8</sub>		3 6.9 167°70	0°5/ 6.4 18			<b>366210</b>	2012 SX <sub>59</sub>		3 7.0 112°34	0°1/ 7.2 17		
2 1	11 34.58	+ 3 22.6	2.357	3.163	11.9	20.6	2 1	11 30.95	+ 1 23.0	2.390	3.195	11.8	21.0
2 11	11 29.56	+ 4 14.0	2.274	3.168	8.9	20.4	2 11	11 26.82	+ 2 9.6	2.313	3.205	8.9	20.9
2 21	11 22.80	+ 5 16.8	2.218	3.173	5.5	20.2	2 21	11 21.09	+ 3 8.5	2.261	3.215	5.5	20.7
3 2	11 14.85	+ 6 26.6	2.190	3.177	1.8	19.9	3 2	11 14.30	+ 4 15.4	2.237	3.224	1.9	20.4
3 12	11 6.48	+ 7 37.2	2.192	3.181	2.2	20.0	3 12	11 7.15	+ 5 24.8	2.244	3.234	1.8	20.4
3 22	10 58.49	+ 8 42.8	2.225	3.183	5.9	20.2	3 22	11 0.39	+ 6 31.2	2.280	3.243	5.4	20.7
4 1	10 51.64	+ 9 38.5	2.287	3.185	9.3	20.4	4 1	10 54.69	+ 7 29.3	2.344	3.252	8.7	20.9
4 11	10 46.48	+10 20.9	2.372	3.186	12.2	20.6	4 11	10 50.56	+ 8 15.7	2.433	3.261	11.5	21.1
<b>349055</b>	2006 WK <sub>78</sub>		3 6.9 243°12	4°6/12.8 17			<b>498767</b>	2008 UW <sub>59</sub>		3 7.0 201°31	1°6/ 5.2 17		
2 1	11 30.64	-13 4.6	2.645	3.374	12.7	21.3	2 1	11 35.					