

EPHEMERIDES

11 8.9

11 9.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>320267</b>	2007 <i>RL</i> <sub>17</sub>		11 8.9 128°94	7°5/ 1.0 18			<b>380524</b>	2004 <i>GY</i>		11 8.9 166°70	2°7/ 8.8 13 C		
10 8	3 17.16	- 5 48.7	2.447	3.297	10.6	20.5	10 8	3 57.26	+ 6 41.9	0.879	1.734	24.2	22.1
10 18	3 12.10	- 7 33.0	2.404	3.303	8.8	20.4	10 18	3 43.86	+ 8 8.1	0.820	1.744	17.9	21.8
10 28	3 5.69	- 9 7.7	2.388	3.308	7.6	20.3	10 28	3 24.79	+ 9 47.6	0.782	1.752	10.4	21.4
11 7	2 58.57	-10 26.6	2.399	3.314	7.8	20.4	11 7	3 1.92	+11 36.1	0.769	1.758	3.1	21.1
11 17	2 51.42	-11 24.8	2.438	3.319	9.0	20.4	11 17	2 38.43	+13 25.9	0.785	1.762	7.5	21.3
11 27	2 44.97	-11 59.6	2.502	3.324	10.9	20.6	11 27	2 17.84	+15 11.4	0.829	1.764	15.1	21.8
12 7	2 39.80	-12 11.1	2.589	3.329	12.7	20.7	12 7	2 2.50	+16 51.5	0.896	1.763	21.4	22.1
12 17	2 36.32	-12 1.2	2.694	3.334	14.3	20.9	12 17	1 53.20	+18 28.6	0.981	1.761	26.4	22.5
<b>211659</b>	2003 <i>UC</i> <sub>279</sub>		11 8.9 349°36	0°2/ 9.1 18			<b>116198</b>	2003 <i>XJ</i> <sub>14</sub>		11 8.9 326°80	5°9/ 10.9 18		
10 8	3 18.54	+19 29.5	1.322	2.200	16.0	19.6	10 8	3 31.27	+27 28.5	1.635	2.462	16.1	18.4
10 18	3 14.30	+19 1.4	1.256	2.193	11.7	19.3	10 18	3 23.69	+29 1.1	1.556	2.454	12.6	18.2
10 28	3 7.41	+18 20.0	1.211	2.186	6.7	19.0	10 28	3 12.91	+30 21.9	1.500	2.447	9.0	17.9
11 7	2 58.89	+17 28.8	1.190	2.181	1.2	18.6	11 7	2 59.90	+31 25.2	1.471	2.440	6.2	17.8
11 17	2 50.12	+16 33.8	1.195	2.176	4.4	18.9	11 17	2 46.12	+32 7.3	1.469	2.434	6.6	17.8
11 27	2 42.54	+15 42.7	1.226	2.173	9.7	19.2	11 27	2 33.34	+32 29.4	1.496	2.428	9.8	17.9
12 7	2 37.34	+15 2.7	1.279	2.170	14.5	19.4	12 7	2 23.08	+32 37.0	1.548	2.422	13.5	18.1
12 17	2 35.14	+14 38.3	1.352	2.169	18.4	19.7	12 17	2 16.30	+32 37.8	1.621	2.417	16.8	18.4
<b>214060</b>	2004 <i>FC</i> <sub>88</sub>		11 8.9 151°07	0°5/ 8.7 18			<b>44948</b>	1999 <i>VT</i> <sub>63</sub>		11 8.9 208°27	0°2/ 9.1 18		
10 8	3 22.72	+16 3.1	2.361	3.211	11.0	21.1	10 8	3 22.22	+19 16.3	1.991	2.843	12.6	19.8
10 18	3 16.19	+15 53.9	2.295	3.219	7.9	20.9	10 18	3 16.20	+18 51.1	1.915	2.840	9.1	19.6
10 28	3 8.04	+15 39.8	2.254	3.226	4.4	20.7	10 28	3 8.20	+18 16.5	1.865	2.836	5.2	19.3
11 7	2 58.98	+15 22.5	2.242	3.233	0.8	20.4	11 7	2 59.04	+17 34.8	1.842	2.832	0.9	19.0
11 17	2 49.83	+15 4.5	2.261	3.239	3.1	20.6	11 17	2 49.71	+16 49.8	1.849	2.828	3.4	19.2
11 27	2 41.48	+14 48.9	2.311	3.245	6.6	20.9	11 27	2 41.27	+16 6.7	1.884	2.823	7.5	19.5
12 7	2 34.63	+14 38.7	2.387	3.250	9.8	21.1	12 7	2 34.59	+15 30.2	1.946	2.818	11.2	19.7
12 17	2 29.77	+14 36.0	2.488	3.255	12.4	21.3	12 17	2 30.21	+15 4.2	2.031	2.813	14.4	19.9
<b>51506</b>	2001 <i>FE</i> <sub>91</sub>		11 8.9 68°59	0°9/ 9.3 18			<b>523387</b>	2017 <i>DY</i> <sub>41</sub>		11 8.9 165°24	7°6/ 2.8 18		
10 8	3 33.24	+16 58.8	1.721	2.566	14.6	18.6	10 8	3 18.76	- 6 5.0	2.253	3.103	11.4	21.3
10 18	3 24.00	+17 49.6	1.679	2.599	10.5	18.5	10 18	3 13.36	- 7 9.0	2.203	3.104	9.3	21.2
10 28	3 12.45	+18 33.9	1.662	2.631	6.0	18.3	10 28	3 6.47	- 8 2.4	2.177	3.104	7.9	21.1
11 7	2 59.70	+19 10.5	1.674	2.663	1.4	18.0	11 7	2 58.75	- 8 39.7	2.178	3.105	7.8	21.1
11 17	2 47.09	+19 39.8	1.716	2.695	3.7	18.3	11 17	2 50.97	- 8 56.8	2.206	3.105	9.0	21.2
11 27	2 35.92	+20 4.0	1.789	2.727	7.9	18.6	11 27	2 43.96	- 8 52.0	2.260	3.105	11.0	21.3
12 7	2 27.14	+20 26.5	1.888	2.758	11.6	18.9	12 7	2 38.37	- 8 26.0	2.336	3.106	13.1	21.5
12 17	2 21.25	+20 50.4	2.011	2.789	14.6	19.2	12 17	2 34.63	- 7 41.1	2.432	3.106	15.0	21.6
<b>117330</b>	2004 <i>XF</i> <sub>8</sub>		11 8.9 190°89	3°7/ 6.1 18			<b>420953</b>	2013 <i>PD</i> <sub>6</sub>		11 8.9 284°01	0°2/ 8.9 18		
10 8	3 19.12	+ 5 25.8	2.467	3.329	10.1	19.6	10 8	3 26.32	+17 2.1	1.281	2.154	16.9	20.8
10 18	3 13.54	+ 4 52.8	2.402	3.328	7.4	19.5	10 18	3 20.05	+17 0.7	1.215	2.149	12.3	20.5
10 28	3 6.54	+ 4 22.0	2.363	3.327	4.9	19.3	10 28	3 10.74	+16 50.2	1.170	2.145	7.0	20.2
11 7	2 58.73	+ 3 56.9	2.352	3.326	3.7	19.2	11 7	2 59.51	+16 32.8	1.150	2.140	1.2	19.8
11 17	2 50.83	+ 3 40.5	2.371	3.325	5.3	19.3	11 17	2 47.92	+16 12.4	1.156	2.136	4.8	20.1
11 27	2 43.60	+ 3 35.5	2.419	3.324	7.9	19.5	11 27	2 37.68	+15 54.8	1.187	2.131	10.4	20.4
12 7	2 37.68	+ 3 43.0	2.492	3.323	10.6	19.7	12 7	2 30.13	+15 45.6	1.242	2.127	15.3	20.7
12 17	2 33.51	+ 4 3.0	2.589	3.321	12.9	19.8	12 17	2 26.02	+15 48.6	1.317	2.123	19.4	20.9
<b>287664</b>	2003 <i>NS</i> <sub>12</sub>		11 8.9 16°20	9°4/ 15.3 18			<b>324497</b>	2006 <i>UN</i> <sub>371</sub>		11 9.0 101°66	0°2/ 8.9 16		
10 8	3 21.32	+38 36.5	1.233	2.052	20.7	19.4	10 8	3 28.68	+17 7.5	1.618	2.474	14.8	21.6
10 18	3 16.85	+39 6.0	1.178	2.059	17.2	19.2	10 18	3 20.85	+16 58.5	1.572	2.498	10.6	21.4
10 28	3 9.01	+39 2.4	1.140	2.066	13.5	19.0	10 28	3 10.74	+16 41.5	1.549	2.522	5.9	21.2
11 7	2 59.17	+38 22.3	1.124	2.075	10.4	18.9	11 7	2 59.46	+16 19.1	1.554	2.545	1.0	20.9
11 17	2 49.19	+37 7.9	1.129	2.085	9.4	18.9	11 17	2 48.30	+15 54.9	1.588	2.567	4.0	21.2
11 27	2 40.98	+35 28.9	1.159	2.097	11.3	19.0	11 27	2 38.54	+15 33.7	1.650	2.588	8.5	21.5
12 7	2 35.87	+33 39.5	1.211	2.110	14.5	19.3	12 7	2 31.10	+15 19.9	1.738	2.609	12.4	21.8
12 17	2 34.46	+31 52.8	1.284	2.123	17.9	19.5	12 17	2 26.46	+15 16.1	1.848	2.629	15.6	22.1
<b>483224</b>	2015 <i>RQ</i> <sub>52</sub>		11 8.9 343°43	1°9/ 10.2 17			<b>81349</b>	2000 <i>GV</i> <sub>47</sub>		11 9.0 94°32	1°6/ 7.9 18		
10 8	3 20.92	+23 4.2	1.696	2.551	14.3	21.2	10 8	3 24.46	+15 37.9	1.640	2.504	14.2	19.8
10 18	3 15.61	+22 57.0	1.624	2.546	10.6	21.0	10 18	3 17.75	+14 44.4	1.595	2.526	10.1	19.6
10 28	3 8.00	+22 36.5	1.575	2.543	6.5	20.7	10 28	3 8.97	+13 43.8	1.574	2.548	5.6	19.4
11 7	2 59.01	+22 3.9	1.552	2.539	2.4	20.4	11 7	2 59.16	+12 41.3	1.580	2.569	1.7	19.2
11 17	2 49.79	+21 22.6	1.556	2.537	3.8	20.5	11 17	2 49.50	+11 42.7	1.615	2.590	4.6	19.4
11 27	2 41.59	+20 38.4	1.588	2.534	8.0	20.8	11 27	2 41.13	+10 54.1	1.678	2.611	8.9	19.7
12 7	2 35.43	+19 57.6	1.645	2.532	12.1	21.0	12 7	2 34.87	+10 19.7	1.767	2.631	12.6	20.0
12 17	2 31.92	+19 25.2	1.725	2.530	15.6	21.3	12 17	2 31.18	+10 1.4	1.877	2.650	15.7	20.2
<b>39213</b>	2000 <i>XZ</i> <sub>40</sub>		11 8.9 26°53	8°7/ 13.9 18			<b>129636</b>	1998 <i>HF</i> <sub>89</sub>		11 9.0 309°88	0°3/ 9.1 18		
10 8	3 26.47	+36 42.2	1.574	2.377	17.7	16.6	10 8	3 23.41	+17 49.9	1.538	2.404	14.9	19.2
10 18	3 20.12	+37 57.0	1.519	2.389	14.7	16.4	10 18	3 17.66	+17 54.0	1.462	2.393	10.9	18.9
10 28	3 10.74	+38 48.1	1.484	2.402	11.6	16.3	10 28	3 9.30	+17 49.9	1.409	2.382	6.2	18.6
11 7	2 59.48	+39 10.7	1.473	2.416	9.2	16.2	11 7	2 59.27	+17 39.0	1.381	2.372	1.2	18.2
11 17	2 47.93	+39 3.8	1.486	2.431	8.8	16.2	11 17	2 48.85	+17 24.1	1.381	2.361	4.1	18.4
11 27	2 37.82	+38 32.3	1.524	2.446	10.4	16.3	11 27	2 39.46	+17 9.9	1.408	2.351	9.1	18.7
12 7	2 30.45	+37 45.1	1.586	2.463	13.1	16.5	12 7	2 32.28	+17 1.2	1.459	2.342	13.6	19.0
12 17	2 26.52	+36 51.9	1.670	2.480	15.8	16.7	12 17	2 28.04	+17 1.9	1.531	2.332	17.4	19.2
<b>432916</b>	2011 <i>RR</i> <sub>7</sub>		11 8.9 351°18	1°8/ 10.8 18			<b>103971</b>	2000 <i>DW</i> <sub>80</sub>		11			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>228044</b>	2008 <i>HD</i> <sub>5</sub>	11 9.0 91°83'	0°3'/ 8.8	17			<b>40969</b>	1999 <i>TR</i> <sub>258</sub>	11 9.0 91°33'	1°2'/ 9.8	18		
10 8	3 27.20	+17 24.7	1.573	2.432	15.0	21.1	10 8	3 24.06	+21 9.6	1.724	2.577	14.2	19.2
10 18	3 19.83	+17 7.9	1.528	2.456	10.7	20.9	10 18	3 17.69	+21 3.1	1.664	2.587	10.4	19.0
10 28	3 10.19	+16 42.6	1.506	2.479	6.0	20.7	10 28	3 9.10	+20 45.3	1.627	2.596	6.1	18.8
11 7	2 59.39	+16 11.9	1.511	2.502	1.0	20.4	11 7	2 59.26	+20 17.9	1.617	2.606	1.8	18.5
11 17	2 48.71	+15 39.9	1.545	2.524	4.0	20.7	11 17	2 49.34	+19 44.3	1.636	2.616	3.6	18.7
11 27	2 39.44	+15 12.0	1.607	2.546	8.6	21.0	11 27	2 40.57	+19 9.8	1.683	2.626	7.9	19.0
12 7	2 32.48	+14 52.6	1.694	2.567	12.6	21.3	12 7	2 33.88	+18 39.7	1.755	2.635	11.8	19.2
12 17	2 28.30	+14 44.5	1.803	2.588	15.8	21.6	12 17	2 29.83	+18 18.4	1.850	2.645	15.1	19.5
<b>76669</b>	2000 <i>HD</i> <sub>51</sub>	11 9.0 314°88'	0°3'/ 8.9	18			<b>22384</b>	1994 <i>EZ</i> <sub>6</sub>	11 9.0 67°91'	3°8'/ 7.3	18		
10 8	3 21.39	+16 50.2	1.554	2.424	14.5	19.0	10 8	3 25.92	+9 39.2	1.298	2.177	16.3	17.5
10 18	3 16.29	+16 45.7	1.468	2.401	10.6	18.7	10 18	3 19.24	+9 8.1	1.256	2.193	11.7	17.3
10 28	3 8.61	+16 33.3	1.404	2.379	6.0	18.4	10 28	3 9.99	+8 36.6	1.237	2.211	6.9	17.1
11 7	2 59.19	+16 15.2	1.366	2.357	1.0	18.0	11 7	2 59.40	+8 10.3	1.243	2.228	3.8	17.0
11 17	2 49.25	+15 54.7	1.355	2.335	4.3	18.2	11 17	2 48.92	+7 54.0	1.275	2.245	6.5	17.2
11 27	2 40.18	+15 36.8	1.371	2.314	9.4	18.4	11 27	2 39.97	+7 51.9	1.333	2.262	11.0	17.5
12 7	2 33.21	+15 26.4	1.410	2.293	14.0	18.6	12 7	2 33.56	+8 5.6	1.414	2.280	15.1	17.8
12 17	2 29.13	+15 27.2	1.470	2.273	17.9	18.9	12 17	2 30.18	+8 34.9	1.515	2.297	18.4	18.1
<b>241961</b>	2002 <i>EN</i> <sub>148</sub>	11 9.0 338°97'	0°1'/ 8.9	18			<b>496459</b>	2014 <i>QV</i> <sub>372</sub>	11 9.0 70°19'	3°6'/ 11.3	18		
10 8	3 23.02	+17 49.6	1.609	2.474	14.4	20.3	10 8	3 24.19	+27 20.1	2.205	3.027	12.6	20.9
10 18	3 17.13	+17 36.3	1.542	2.472	10.5	20.1	10 18	3 17.63	+27 54.2	2.133	3.032	9.7	20.7
10 28	3 8.88	+17 14.1	1.498	2.471	5.9	19.8	10 28	3 9.06	+28 16.0	2.085	3.036	6.6	20.5
11 7	2 59.21	+16 45.5	1.480	2.470	1.0	19.5	11 7	2 59.27	+28 24.4	2.065	3.041	4.0	20.4
11 17	2 49.33	+16 14.4	1.490	2.469	4.0	19.7	11 17	2 49.26	+28 20.0	2.074	3.045	4.2	20.4
11 27	2 40.56	+15 46.0	1.527	2.469	8.7	20.0	11 27	2 40.10	+28 5.9	2.112	3.050	6.9	20.6
12 7	2 33.90	+15 25.4	1.589	2.468	12.9	20.2	12 7	2 32.69	+27 46.6	2.177	3.054	10.0	20.8
12 17	2 29.99	+15 16.0	1.673	2.467	16.4	20.5	12 17	2 27.62	+27 27.1	2.266	3.059	12.7	21.0
<b>160844</b>	2001 <i>AB</i> <sub>47</sub>	11 9.0 340°11'	12°8'/ 10.7	18			<b>189942</b>	2003 <i>SC</i> <sub>297</sub>	11 9.0 168°68'	3°0'/ 11.6	18		
10 8	3 40.88	+36 27.5	1.378	2.171	20.2	17.5	10 8	3 20.24	+28 18.3	2.329	3.152	12.0	20.0
10 18	3 32.45	+39 40.0	1.301	2.160	17.4	17.3	10 18	3 14.64	+28 4.8	2.252	3.152	9.2	19.8
10 28	3 18.94	+42 37.6	1.247	2.149	14.6	17.1	10 28	3 7.30	+27 37.0	2.200	3.153	6.1	19.6
11 7	3 1.15	+45 4.1	1.218	2.139	12.9	16.9	11 7	2 58.96	+26 55.8	2.175	3.153	3.4	19.4
11 17	2 41.11	+46 45.7	1.214	2.131	13.2	16.9	11 17	2 50.50	+26 3.8	2.179	3.154	3.6	19.4
11 27	2 21.92	+47 39.1	1.235	2.123	15.3	17.0	11 27	2 42.87	+25 5.7	2.212	3.154	6.4	19.6
12 7	2 6.46	+47 53.3	1.279	2.117	18.1	17.2	12 7	2 36.81	+24 7.1	2.273	3.154	9.4	19.8
12 17	1 56.48	+47 43.4	1.340	2.111	20.9	17.4	12 17	2 32.84	+23 13.2	2.359	3.155	12.2	20.0
<b>323581</b>	2004 <i>TP</i> <sub>201</sub>	11 9.0 30°12'	1°4'/ 9.8	18			<b>452765</b>	2006 <i>CR</i> <sub>27</sub>	11 9.0 30°27'	6°6'/ 4.3	17		
10 8	3 22.59	+20 31.1	1.965	2.815	12.8	20.6	10 8	3 18.65	-0 36.9	1.989	2.855	12.0	21.1
10 18	3 16.51	+20 48.1	1.898	2.819	9.4	20.4	10 18	3 13.45	-1 37.3	1.939	2.859	9.3	20.9
10 28	3 8.42	+20 56.6	1.856	2.824	5.6	20.1	10 28	3 6.60	-2 30.2	1.913	2.863	7.1	20.8
11 7	2 59.14	+20 57.1	1.841	2.829	1.8	19.9	11 7	2 58.85	-3 9.9	1.914	2.867	6.6	20.8
11 17	2 49.69	+20 51.3	1.855	2.834	3.3	20.0	11 17	2 51.05	-3 31.8	1.942	2.871	8.2	20.9
11 27	2 41.16	+20 42.5	1.897	2.840	7.2	20.3	11 27	2 44.11	-3 33.5	1.996	2.876	10.7	21.1
12 7	2 34.44	+20 34.7	1.967	2.846	10.8	20.5	12 7	2 38.73	-3 15.1	2.073	2.881	13.3	21.3
12 17	2 30.08	+20 31.3	2.059	2.852	13.8	20.7	12 17	2 35.38	-2 38.3	2.171	2.886	15.5	21.4
<b>1453</b>	Fennia	11 9.0 150°75'	16°8'/ 13.4	18			<b>355514</b>	2007 <i>YO</i> <sub>65</sub>	11 9.0 31°51'	3°4'/ 6.9	18		
10 8	3 47.49	+43 34.7	1.169	1.938	24.5	15.4	10 8	3 20.47	+9 59.9	1.604	2.481	13.8	20.5
10 18	3 38.32	+46 49.3	1.110	1.940	21.6	15.2	10 18	3 15.10	+9 19.1	1.551	2.488	9.9	20.3
10 28	3 22.72	+49 35.2	1.069	1.942	19.0	15.1	10 28	3 7.64	+8 36.9	1.522	2.495	5.9	20.1
11 7	3 1.82	+51 32.4	1.049	1.944	17.2	15.0	11 7	2 59.03	+7 58.5	1.519	2.503	3.4	19.9
11 17	2 38.65	+52 26.7	1.051	1.945	16.9	15.0	11 17	2 50.37	+7 29.0	1.543	2.511	5.8	20.1
11 27	2 17.55	+52 19.4	1.073	1.947	18.3	15.0	11 27	2 42.80	+7 12.7	1.593	2.519	9.7	20.4
12 7	2 2.01	+51 27.4	1.115	1.948	20.6	15.2	12 7	2 37.20	+7 11.8	1.668	2.528	13.4	20.6
12 17	1 53.52	+50 12.8	1.173	1.949	23.1	15.4	12 17	2 34.09	+7 26.8	1.763	2.538	16.5	20.8
<b>230325</b>	2002 <i>CR</i> <sub>84</sub>	11 9.0 132°14'	3°5'/ 6.8	18			<b>372890</b>	2011 <i>AD</i> <sub>13</sub>	11 9.0 233°21'	6°1'/ 14.6	18		
10 8	3 22.74	+9 15.0	1.816	2.684	12.9	20.3	10 8	3 23.61	+39 29.5	2.768	3.522	12.1	20.9
10 18	3 16.52	+8 30.7	1.759	2.691	9.3	20.1	10 18	3 17.17	+39 53.5	2.675	3.511	10.1	20.7
10 28	3 8.35	+7 45.5	1.727	2.698	5.6	19.9	10 28	3 8.81	+40 0.1	2.604	3.501	8.1	20.6
11 7	2 59.12	+7 4.2	1.723	2.705	3.5	19.8	11 7	2 59.25	+39 47.6	2.560	3.490	6.5	20.5
11 17	2 49.85	+6 31.6	1.747	2.712	5.7	19.9	11 17	2 49.41	+39 15.8	2.543	3.479	6.1	20.4
11 27	2 41.60	+6 11.9	1.799	2.718	9.3	20.2	11 27	2 40.31	+38 27.7	2.555	3.467	7.2	20.5
12 7	2 35.19	+6 7.1	1.876	2.724	12.7	20.4	12 7	2 32.80	+37 28.5	2.594	3.456	9.2	20.6
12 17	2 31.14	+6 17.7	1.974	2.730	15.6	20.6	12 17	2 27.48	+36 24.3	2.658	3.443	11.3	20.7
<b>383139</b>	2005 <i>UF</i> <sub>96</sub>	11 9.0 35°73'	1°9'/ 8.1	18			<b>481671</b>	2007 <i>VP</i> <sub>324</sub>	11 9.0 331°27'	3°1'/ 10.2	18		
10 8	3 22.87	+14 27.1	1.154	2.041	17.3	20.1	10 8	3 26.02	+22 4.1	1.513	2.368	15.7	20.8
10 18	3 17.34	+14 1.1	1.113	2.055	12.4	19.8	10 18	3 19.82	+22 58.3	1.436	2.357	11.9	20.6
10 28	3 9.04	+13 28.4	1.092	2.070	6.9	19.6	10 28	3 10.70	+23 43.2	1.381	2.346	7.5	20.3
11 7	2 59.24	+12 54.2	1.096	2.085	2.0	19.3	11 7	2 59.62	+24 16.5	1.351	2.336	3.5	20.0
11 17	2 49.50	+12 24.4	1.124	2.102	5.5	19.6	11 17	2 47.95	+24 37.5	1.349	2.327	4.8	20.1
11 27	2 41.38	+12 4.9	1.178	2.119	10.7	20.0	11 27	2 37.31	+24 48.6	1.374	2.318	9.2	20.3
12 7	2 35.93	+11 59.7	1.253	2.138	15.2	20.3	12 7	2 29.07	+24 54.9	1.423	2.310	13.6	20.6
12 17	2 33.67	+12 10.1	1.348	2.156	18.9	20.6	12 17	2 24.07	+25 1.8	1.493	2.303	17.4	20.8
<b>183329</b>	2002 <i>VA</i> <sub>56</sub>	11 9.0 330°17'	3°6'/ 6.8	18			<b>350103</b>	2011 <i>OZ</i> <sub>37</sub>	11 9.0 134°00'	1°1'/ 8.4	18	</	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>92668</b>	2000 <i>QB</i> <sub>53</sub>		11 9.0 36°75	0°2/ 8.9 18			<b>9677</b>	Gowlandhopkins		11 9.0 57°41	2°7/ 6.9 18		
10 8	3 23.02	+17 38.0	1.274	2.151	16.6	19.4	10 8	3 19.98	+11 57.9	1.882	2.751	12.4	18.0
10 18	3 17.38	+17 23.1	1.227	2.163	12.0	19.1	10 18	3 14.34	+10 57.3	1.844	2.777	8.8	17.8
10 28	3 9.07	+16 58.4	1.201	2.176	6.7	18.9	10 28	3 7.05	+9 54.2	1.830	2.804	5.0	17.7
11 7	2 59.29	+16 27.1	1.199	2.190	1.1	18.6	11 7	2 58.94	+8 53.7	1.845	2.830	2.7	17.6
11 17	2 49.50	+15 54.4	1.224	2.204	4.5	18.8	11 17	2 50.98	+8 1.1	1.888	2.856	5.0	17.8
11 27	2 41.19	+15 26.5	1.274	2.219	9.7	19.2	11 27	2 44.05	+7 20.9	1.959	2.882	8.4	18.0
12 7	2 35.43	+15 8.7	1.347	2.234	14.2	19.5	12 7	2 38.86	+6 55.7	2.056	2.909	11.6	18.3
12 17	2 32.75	+15 4.1	1.441	2.250	17.9	19.8	12 17	2 35.77	+6 46.2	2.174	2.935	14.2	18.5
<b>434597</b>	2005 <i>UR</i> <sub>249</sub>		11 9.0 138°70	0°8/ 8.6 18			<b>415627</b>	2014 <i>QJ</i> <sub>371</sub>		11 9.0 322°59	11°3/ 28.1 18		
10 8	3 25.92	+15 21.8	1.683	2.544	14.1	21.3	10 8	3 16.36	-12 48.6	1.945	2.787	13.3	20.2
10 18	3 19.07	+15 16.8	1.620	2.550	10.1	21.0	10 18	3 12.03	-14 59.0	1.897	2.773	11.9	20.1
10 28	3 9.92	+15 6.1	1.581	2.555	5.7	20.8	10 28	3 5.93	-16 53.5	1.873	2.760	11.3	20.1
11 7	2 59.44	+14 51.9	1.570	2.560	1.1	20.5	11 7	2 58.79	-18 22.9	1.873	2.747	11.9	20.1
11 17	2 48.82	+14 37.4	1.587	2.565	4.1	20.7	11 17	2 51.48	-19 20.6	1.897	2.734	13.3	20.1
11 27	2 39.33	+14 26.6	1.632	2.569	8.6	21.0	11 27	2 44.95	-19 43.9	1.943	2.722	15.1	20.3
12 7	2 31.96	+14 23.3	1.702	2.573	12.6	21.3	12 7	2 39.98	-19 34.1	2.006	2.710	17.0	20.4
12 17	2 27.28	+14 29.9	1.795	2.577	15.9	21.5	12 17	2 37.09	-18 55.1	2.085	2.699	18.7	20.5
<b>514124</b>	2015 <i>FS</i> <sub>343</sub>		11 9.0 213°41	1°3/ 9.7 18			<b>445303</b>	2010 <i>CR</i> <sub>131</sub>		11 9.0 210°63	5°0/ 4.8 18		
10 8	3 26.10	+20 59.6	1.692	2.543	14.5	21.2	10 8	3 20.96	+3 33.2	2.250	3.110	11.0	21.9
10 18	3 19.42	+20 59.8	1.617	2.539	10.7	20.9	10 18	3 15.06	+2 24.6	2.181	3.104	8.3	21.7
10 28	3 10.24	+20 48.7	1.565	2.534	6.3	20.7	10 28	3 7.53	+1 18.4	2.138	3.096	5.8	21.6
11 7	2 59.52	+20 27.3	1.540	2.529	1.9	20.4	11 7	2 59.06	+0 19.9	2.124	3.089	5.1	21.5
11 17	2 48.50	+19 58.4	1.543	2.523	3.8	20.5	11 17	2 50.47	-0 25.9	2.139	3.080	6.8	21.6
11 27	2 38.55	+19 27.0	1.575	2.518	8.4	20.8	11 27	2 42.60	-0 55.0	2.183	3.071	9.5	21.8
12 7	2 30.77	+18 59.2	1.632	2.511	12.6	21.0	12 7	2 36.18	-1 6.0	2.251	3.061	12.3	21.9
12 17	2 25.82	+18 39.5	1.712	2.505	16.2	21.2	12 17	2 31.70	-0 59.0	2.340	3.051	14.6	22.1
<b>470566</b>	2008 <i>GZ</i> <sub>61</sub>		11 9.0 82°62	0°8/ 8.7 17			<b>170823</b>	2004 <i>EO</i> <sub>14</sub>		11 9.0 166°24	1°5/ 8.0 18		
10 8	3 31.78	+13 47.6	1.510	2.368	15.5	21.2	10 8	3 22.00	+13 22.4	2.181	3.040	11.4	20.3
10 18	3 23.19	+14 10.2	1.467	2.395	11.1	21.0	10 18	3 15.85	+13 1.9	2.114	3.042	8.2	20.1
10 28	3 12.14	+14 28.9	1.448	2.421	6.2	20.8	10 28	3 7.99	+12 37.9	2.072	3.045	4.6	19.9
11 7	2 59.80	+14 44.6	1.457	2.447	1.2	20.5	11 7	2 59.14	+12 12.9	2.058	3.047	1.5	19.7
11 17	2 47.61	+14 59.0	1.494	2.472	4.3	20.8	11 17	2 50.19	+11 50.3	2.075	3.049	3.8	19.9
11 27	2 36.95	+15 15.1	1.560	2.497	9.0	21.2	11 27	2 42.05	+11 33.4	2.120	3.050	7.4	20.1
12 7	2 28.83	+15 35.5	1.652	2.522	13.0	21.5	12 7	2 35.48	+11 25.0	2.193	3.052	10.7	20.3
12 17	2 23.74	+16 2.3	1.765	2.546	16.2	21.7	12 17	2 30.96	+11 26.8	2.288	3.053	13.5	20.5
<b>306690</b>	2000 <i>UU</i> <sub>90</sub>		11 9.0 91°51	1°3/ 9.8 18			<b>23771</b>	Emaitchar		11 9.0 71°10	1°0/ 8.5 18		
10 8	3 23.93	+21 24.2	1.661	2.515	14.6	19.5	10 8	3 27.60	+15 32.3	1.343	2.213	16.4	17.9
10 18	3 17.72	+21 15.1	1.598	2.522	10.7	19.3	10 18	3 20.38	+15 17.9	1.303	2.237	11.7	17.7
10 28	3 9.19	+20 54.0	1.559	2.528	6.3	19.1	10 28	3 10.62	+14 56.6	1.286	2.261	6.5	17.5
11 7	2 59.33	+20 22.7	1.546	2.535	1.9	18.8	11 7	2 59.57	+14 31.8	1.295	2.285	1.3	17.2
11 17	2 49.35	+19 44.7	1.561	2.541	3.7	18.9	11 17	2 48.71	+14 8.0	1.331	2.310	4.7	17.5
11 27	2 40.53	+19 5.9	1.603	2.547	8.2	19.2	11 27	2 39.44	+13 50.4	1.394	2.334	9.6	17.9
12 7	2 33.85	+18 31.9	1.671	2.553	12.2	19.5	12 7	2 32.77	+13 43.2	1.481	2.357	13.8	18.2
12 17	2 29.89	+18 7.3	1.762	2.559	15.6	19.7	12 17	2 29.16	+13 48.2	1.588	2.381	17.2	18.5
<b>9879</b>	Mammuthus		11 9.0 41°70	0°6/ 9.3 18			<b>408069</b>	2012 <i>GA</i> <sub>26</sub>		11 9.0 325°16	2°1/ 7.3 18		
10 8	3 23.35	+21 8.6	1.072	1.952	18.8	17.7	10 8	3 18.07	+13 20.2	2.133	2.999	11.3	20.8
10 18	3 17.74	+20 27.3	1.039	1.976	13.6	17.4	10 18	3 13.07	+12 24.4	2.065	2.997	8.1	20.6
10 28	3 9.23	+19 29.8	1.026	2.001	7.7	17.2	10 28	3 6.44	+11 23.7	2.022	2.996	4.6	20.4
11 7	2 59.31	+18 21.7	1.036	2.027	1.6	16.9	11 7	2 58.88	+10 22.3	2.007	2.994	2.1	20.2
11 17	2 49.66	+17 11.5	1.072	2.053	4.7	17.2	11 17	2 51.22	+9 25.3	2.021	2.992	4.4	20.4
11 27	2 41.88	+16 8.8	1.132	2.080	10.2	17.6	11 27	2 44.34	+8 37.5	2.064	2.990	7.9	20.6
12 7	2 36.97	+15 21.0	1.214	2.107	14.9	18.0	12 7	2 38.95	+8 2.5	2.134	2.989	11.1	20.8
12 17	2 35.33	+14 51.6	1.316	2.135	18.7	18.3	12 17	2 35.52	+7 42.3	2.225	2.987	13.9	21.0
<b>51641</b>	2001 <i>HY</i> <sub>54</sub>		11 9.0 241°28	2°9/ 7.2 18			<b>454611</b>	2014 <i>QP</i> <sub>40</sub>		11 9.0 95°66	0°7/ 9.6 18		
10 8	3 23.32	+12 26.3	1.663	2.532	13.8	19.4	10 8	3 20.08	+20 42.8	2.221	3.069	11.6	21.6
10 18	3 17.34	+11 31.5	1.587	2.521	10.0	19.2	10 18	3 14.48	+20 21.2	2.155	3.076	8.4	21.4
10 28	3 9.04	+10 30.8	1.535	2.509	5.8	18.9	10 28	3 7.22	+19 50.3	2.113	3.083	4.9	21.2
11 7	2 59.32	+9 29.2	1.511	2.497	2.9	18.7	11 7	2 59.02	+19 12.4	2.100	3.090	1.2	20.9
11 17	2 49.33	+8 33.3	1.515	2.485	5.6	18.8	11 17	2 50.76	+18 30.7	2.116	3.096	2.9	21.1
11 27	2 40.32	+7 49.4	1.546	2.472	10.0	19.1	11 27	2 43.32	+17 49.6	2.162	3.103	6.6	21.3
12 7	2 33.31	+7 21.9	1.601	2.458	14.1	19.3	12 7	2 37.44	+17 13.4	2.235	3.110	9.9	21.6
12 17	2 28.95	+7 12.8	1.678	2.445	17.5	19.5	12 17	2 33.59	+16 45.5	2.331	3.116	12.6	21.8
<b>363715</b>	2004 <i>VY</i> <sub>20</sub>		11 9.0 5°44	0°2/ 9.2 18			<b>92991</b>	2000 <i>RB</i> <sub>75</sub>		11 9.0 312°58	4°3/ 6.6 18		
10 8	3 18.26	+20 50.4	1.931	2.789	12.7	19.9	10 8	3 21.70	+8 26.3	1.488	2.367	14.5	18.8
10 18	3 13.38	+19 56.6	1.862	2.789	9.2	19.7	10 18	3 16.33	+7 41.6	1.421	2.358	10.6	18.5
10 28	3 6.66	+18 50.8	1.817	2.789	5.2	19.5	10 28	3 8.54	+6 56.2	1.377	2.349	6.6	18.2
11 7	2 58.90	+17 36.7	1.800	2.790	1.0	19.2	11 7	2 59.28	+6 16.0	1.359	2.341	4.3	18.1
11 17	2 51.05	+16 19.9	1.811	2.791	3.4	19.3	11 17	2 49.76	+5 46.9	1.368	2.333	6.9	18.2
11 27	2 44.12	+15 7.0	1.852	2.793	7.5	19.6	11 27	2 41.31	+5 33.9	1.402	2.325	11.1	18.5
12 7	2 38.90	+14 3.9	1.918	2.794	11.2	19.8	12 7	2 34.98	+5 39.6	1.459	2.318	15.1	18.7
12 17	2 35.87	+13 14.7	2.008	2.796	14.3	20.1	12 17	2 31.42	+6 3.8	1.536	2.311	18.5	18.9
<b>202555</b>	2006 <i>DV</i> <sub>203</sub>		11 9.0 174°02	2°1/ 7.8 18			<b>415152</b>	2012 <i>FU</i> <sub>18</sub>		11 9.0 76°72	0°8/ 8.4 18		
10 8	3 23												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>174990</b>	2004 <i>EB</i> <sub>20</sub>		11 9.0 220°58	1.1°/ 8.3	18		<b>142720</b>	2002 <i>TJ</i> <sub>277</sub>		11 9.0 50°62	3.0°/10.9	18	
10 8	3 22.62	+14 16.8	2.092	2.949	11.8	20.3	10 8	3 23.76	+25 24.9	1.580	2.427	15.5	20.4
10 18	3 16.45	+14 6.0	2.017	2.945	8.5	20.1	10 18	3 17.68	+25 28.7	1.527	2.443	11.7	20.2
10 28	3 8.41	+13 51.1	1.967	2.941	4.8	19.8	10 28	3 9.21	+25 16.6	1.496	2.458	7.4	20.0
11 7	2 59.25	+13 34.2	1.946	2.936	1.2	19.6	11 7	2 59.41	+24 49.4	1.491	2.475	3.5	19.8
11 17	2 49.90	+13 18.3	1.955	2.931	3.7	19.7	11 17	2 49.60	+24 10.7	1.513	2.491	4.2	19.9
11 27	2 41.35	+13 6.7	1.992	2.926	7.6	20.0	11 27	2 41.09	+23 26.4	1.562	2.508	8.1	20.1
12 7	2 34.43	+13 2.4	2.057	2.921	11.1	20.2	12 7	2 34.87	+22 43.6	1.637	2.525	12.0	20.4
12 17	2 29.70	+13 7.5	2.144	2.915	14.0	20.4	12 17	2 31.47	+22 7.9	1.734	2.543	15.3	20.7
<b>143978</b>	2003 <i>YS</i> <sub>145</sub>		11 9.0 330°17	6.6°/12.5	18		<b>226503</b>	2003 <i>SB</i> <sub>319</sub>		11 9.0 352°91	2.4°/11.1	18	
10 8	3 25.84	+32 32.3	1.688	2.504	16.1	19.7	10 8	3 19.26	+26 38.9	2.093	2.929	12.7	19.6
10 18	3 19.65	+33 26.3	1.611	2.498	13.0	19.5	10 18	3 14.12	+26 13.8	2.018	2.927	9.6	19.4
10 28	3 10.60	+34 1.6	1.556	2.492	9.7	19.3	10 28	3 7.13	+25 33.9	1.966	2.926	6.1	19.2
11 7	2 59.67	+34 14.5	1.526	2.487	7.1	19.1	11 7	2 59.06	+24 40.7	1.942	2.925	2.9	19.0
11 17	2 48.23	+34 4.3	1.521	2.481	7.0	19.1	11 17	2 50.88	+23 37.8	1.946	2.925	3.4	19.0
11 27	2 37.89	+33 34.7	1.543	2.477	9.4	19.2	11 27	2 43.57	+22 30.9	1.979	2.924	6.8	19.2
12 7	2 29.95	+32 53.3	1.590	2.472	12.7	19.4	12 7	2 37.94	+21 26.2	2.040	2.924	10.2	19.4
12 17	2 25.20	+32 8.7	1.659	2.468	15.9	19.6	12 17	2 34.51	+20 29.1	2.124	2.924	13.2	19.6
<b>326519</b>	2002 <i>NR</i> <sub>60</sub>		11 9.0 106°53	1.0°/ 9.6	16		<b>405758</b>	2005 <i>YO</i> <sub>148</sub>		11 9.0 319°29	0.8°/ 9.5	18	
10 8	3 26.87	+21 23.2	1.574	2.426	15.3	22.0	10 8	3 20.70	+19 53.6	2.003	2.857	12.5	21.0
10 18	3 19.76	+20 59.5	1.522	2.445	11.2	21.7	10 18	3 15.23	+19 48.1	1.927	2.851	9.1	20.8
10 28	3 10.29	+20 22.8	1.493	2.463	6.5	21.5	10 28	3 7.80	+19 33.8	1.874	2.845	5.3	20.6
11 7	2 59.56	+19 35.8	1.491	2.480	1.7	21.3	11 7	2 59.19	+19 12.1	1.850	2.839	1.3	20.3
11 17	2 48.89	+18 43.4	1.517	2.497	3.8	21.4	11 17	2 50.36	+18 45.9	1.854	2.834	3.2	20.4
11 27	2 39.62	+17 52.4	1.571	2.513	8.4	21.8	11 27	2 42.34	+18 19.2	1.886	2.828	7.3	20.7
12 7	2 32.69	+17 9.0	1.651	2.529	12.5	22.0	12 7	2 36.02	+17 56.5	1.945	2.823	10.9	20.9
12 17	2 28.60	+16 37.7	1.752	2.544	15.9	22.3	12 17	2 31.97	+17 41.3	2.027	2.819	14.0	21.1
<b>206499</b>	2003 <i>UV</i> <sub>100</sub>		11 9.0 337°18	8.0°/12.1	18		<b>164674</b>	1997 <i>EV</i> <sub>4</sub>		11 9.1 70°27	2.5°/10.5	18	
10 8	3 26.67	+31 48.6	1.403	2.233	18.1	19.7	10 8	3 25.27	+23 47.0	1.660	2.507	14.9	19.9
10 18	3 20.87	+33 15.3	1.327	2.221	14.7	19.5	10 18	3 18.69	+23 57.6	1.605	2.521	11.1	19.7
10 28	3 11.61	+34 24.1	1.272	2.210	11.2	19.2	10 28	3 9.77	+23 54.7	1.572	2.536	6.9	19.5
11 7	2 59.89	+35 8.5	1.239	2.200	8.4	19.1	11 7	2 59.52	+23 38.7	1.565	2.551	3.0	19.3
11 17	2 47.34	+35 25.1	1.231	2.190	8.4	19.0	11 17	2 49.22	+23 12.5	1.586	2.565	4.0	19.4
11 27	2 35.95	+35 16.4	1.249	2.182	11.2	19.2	11 27	2 40.16	+22 41.1	1.636	2.580	8.0	19.7
12 7	2 27.41	+34 50.7	1.289	2.174	14.8	19.4	12 7	2 33.33	+22 10.7	1.710	2.595	11.8	20.0
12 17	2 22.72	+34 17.9	1.349	2.167	18.4	19.6	12 17	2 29.28	+21 46.4	1.807	2.609	15.1	20.2
<b>354311</b>	2002 <i>TS</i> <sub>341</sub>		11 9.0 37°31	1.6°/ 8.2	18		<b>326089</b>	2011 <i>BO</i> <sub>79</sub>		11 9.1 320°84	5.7°/ 4.9	18	
10 8	3 22.57	+13 30.3	1.595	2.466	14.2	20.8	10 8	3 19.19	+ 0 44.8	2.130	2.994	11.4	20.0
10 18	3 16.72	+13 16.1	1.538	2.473	10.2	20.6	10 18	3 13.87	+ 0 1.1	2.069	2.990	8.7	19.9
10 28	3 8.64	+12 57.8	1.505	2.480	5.7	20.3	10 28	3 6.92	+ 0 41.1	2.032	2.986	6.5	19.7
11 7	2 59.30	+12 38.6	1.499	2.488	1.7	20.1	11 7	2 59.04	+ 1 10.2	2.023	2.983	5.8	19.7
11 17	2 49.87	+12 22.3	1.520	2.496	4.6	20.3	11 17	2 51.05	+ 1 24.6	2.042	2.980	7.3	19.8
11 27	2 41.58	+12 13.0	1.568	2.505	9.0	20.6	11 27	2 43.82	+ 1 21.7	2.088	2.976	9.9	19.9
12 7	2 35.37	+12 13.9	1.641	2.514	12.9	20.8	12 7	2 38.07	+ 1 1.3	2.158	2.973	12.5	20.1
12 17	2 31.78	+12 26.5	1.735	2.523	16.2	21.1	12 17	2 34.27	+ 0 24.4	2.249	2.970	14.9	20.3
<b>518713</b>	2009 <i>CV</i> <sub>65</sub>		11 9.0 270°15	2.9°/10.9	18		<b>515892</b>	2015 <i>PK</i> <sub>43</sub>		11 9.1 307°55	0.6°/ 8.7	18	
10 8	3 22.88	+26 2.4	1.827	2.666	14.1	21.1	10 8	3 23.97	+15 11.7	1.674	2.539	13.9	20.9
10 18	3 17.08	+25 58.7	1.746	2.657	10.7	20.9	10 18	3 17.90	+15 16.8	1.599	2.531	10.1	20.7
10 28	3 8.96	+25 39.8	1.687	2.647	6.9	20.7	10 28	3 9.45	+15 16.9	1.549	2.523	5.7	20.4
11 7	2 59.39	+25 5.8	1.655	2.638	3.4	20.4	11 7	2 59.50	+15 13.7	1.525	2.515	1.1	20.1
11 17	2 49.51	+24 19.5	1.650	2.628	4.0	20.5	11 17	2 49.22	+15 10.0	1.529	2.507	4.1	20.3
11 27	2 40.59	+23 26.6	1.674	2.619	7.8	20.7	11 27	2 39.91	+15 9.1	1.560	2.500	8.7	20.6
12 7	2 33.67	+22 33.7	1.724	2.609	11.7	20.9	12 7	2 32.63	+15 14.7	1.617	2.493	12.9	20.8
12 17	2 29.39	+21 47.4	1.797	2.599	15.1	21.1	12 17	2 28.06	+15 29.2	1.695	2.486	16.4	21.0
<b>280474</b>	2004 <i>HY</i> <sub>2</sub>		11 9.0 140°26	0.9°/ 8.5	16		<b>140194</b>	2001 <i>SO</i> <sub>218</sub>		11 9.1 352°93	0.5°/ 8.8	18	
10 8	3 26.05	+15 26.1	1.994	2.846	12.6	21.8	10 8	3 20.22	+17 9.7	1.602	2.473	14.2	20.0
10 18	3 18.80	+15 5.1	1.934	2.860	9.0	21.6	10 18	3 15.17	+16 48.4	1.535	2.469	10.2	19.8
10 28	3 9.66	+14 38.5	1.900	2.873	5.0	21.4	10 28	3 7.87	+16 18.7	1.492	2.466	5.7	19.5
11 7	2 59.48	+14 8.9	1.895	2.885	1.1	21.2	11 7	2 59.22	+15 43.5	1.474	2.464	1.0	19.2
11 17	2 49.28	+13 39.8	1.920	2.897	3.8	21.4	11 17	2 50.36	+15 7.4	1.483	2.462	4.1	19.4
11 27	2 40.11	+13 15.4	1.975	2.907	7.7	21.6	11 27	2 42.54	+14 35.8	1.519	2.461	8.7	19.7
12 7	2 32.79	+12 59.2	2.056	2.917	11.2	21.9	12 7	2 36.73	+14 13.5	1.580	2.461	12.9	19.9
12 17	2 27.81	+12 53.3	2.160	2.927	14.1	22.1	12 17	2 33.55	+14 3.7	1.662	2.461	16.3	20.1
<b>216070</b>	2006 <i>QO</i> <sub>20</sub>		11 9.0 45°88	0.1°/ 9.0	18		<b>254904</b>	2005 <i>SQ</i> <sub>86</sub>		11 9.1 53°23	1.1°/ 8.3	18	
10 8	3 32.58	+19 0.5	1.032	1.916	19.1	20.1	10 8	3 20.74	+15 42.5	1.805	2.671	13.0	20.6
10 18	3 19.14	+18 30.5	1.000	1.939	13.7	19.8	10 18	3 15.18	+15 11.3	1.750	2.682	9.3	20.4
10 28	3 10.08	+17 47.0	0.988	1.964	7.6	19.6	10 28	3 7.70	+14 33.7	1.719	2.693	5.2	20.2
11 7	2 59.54	+16 55.4	0.999	1.989	1.3	19.3	11 7	2 59.17	+13 53.4	1.715	2.705	1.2	19.9
11 17	2 49.28	+16 3.1	1.035	2.015	4.9	19.6	11 17	2 50.62	+13 14.8	1.739	2.717	4.0	20.1
11 27	2 40.96	+15 18.6	1.094	2.042	10.6	20.0	11 27	2 43.08	+12 42.6	1.792	2.728	8.1	20.4
12 7	2 35.65	+14 48.2	1.176	2.069	15.4	20.4	12 7	2 37.38	+12 20.6	1.870	2.740	11.7	20.7
12 17	2 33.76	+14 34.8	1.277	2.096	19.2	20.7	12 17	2 34.00	+12 11.0	1.970	2.753	14.7	20.9
<b>438491</b>	2007 <i>GG</i> <sub>64</sub>		11 9.0 252°44	0.3°/ 8.9	18		<b>328835</b>	200					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>379248</b>	2009 <i>TK</i> <sub>15</sub>	11	9.1 114°74	1.7/ 8.2	18		<b>108729</b>	2001 <i>ON</i> <sub>28</sub>	11	9.1 131°88	3.7/11.6	18	
10 8	3 26.28	+13 42.3	1.599	2.463	14.5	20.9	10 8	3 25.78	+28 26.3	2.193	3.009	12.9	20.6
10 18	3 19.34	+13 22.3	1.544	2.476	10.4	20.7	10 18	3 18.78	+28 45.7	2.125	3.019	9.9	20.4
10 28	3 10.10	+12 57.6	1.514	2.487	5.8	20.4	10 28	3 9.77	+28 51.2	2.081	3.030	6.8	20.2
11 7	2 59.60	+12 31.6	1.510	2.499	1.8	20.2	11 7	2 59.60	+28 42.0	2.065	3.040	4.1	20.1
11 17	2 49.07	+12 8.5	1.534	2.510	4.7	20.4	11 17	2 49.29	+28 19.5	2.078	3.049	4.2	20.1
11 27	2 39.79	+11 52.8	1.587	2.521	9.1	20.7	11 27	2 39.93	+27 47.7	2.121	3.058	6.9	20.3
12 7	2 32.70	+11 47.8	1.664	2.531	13.1	21.0	12 7	2 32.41	+27 11.9	2.191	3.067	10.0	20.5
12 17	2 28.36	+11 55.2	1.763	2.541	16.4	21.2	12 17	2 27.27	+26 37.5	2.285	3.075	12.7	20.7
<b>262159</b>	2006 <i>SV</i> <sub>90</sub>	11	9.1 298°61	2.0/ 9.9	18		<b>391606</b>	2007 <i>UF</i> <sub>113</sub>	11	9.1 81°22	2.9/ 7.4	18	
10 8	3 24.91	+21 44.6	1.370	2.233	16.6	21.2	10 8	3 22.49	+10 20.6	1.785	2.654	13.0	20.8
10 18	3 19.16	+21 52.5	1.294	2.221	12.4	20.9	10 18	3 16.49	+9 52.0	1.727	2.660	9.4	20.6
10 28	3 10.42	+21 47.0	1.241	2.210	7.5	20.6	10 28	3 8.51	+9 22.1	1.693	2.666	5.5	20.4
11 7	2 59.71	+21 28.2	1.211	2.200	2.6	20.3	11 7	2 59.40	+8 54.9	1.687	2.672	2.9	20.3
11 17	2 48.51	+20 59.2	1.208	2.189	4.5	20.4	11 17	2 50.22	+8 34.2	1.708	2.678	5.2	20.4
11 27	2 38.50	+20 25.9	1.231	2.178	9.7	20.7	11 27	2 42.04	+8 24.1	1.758	2.684	9.0	20.7
12 7	2 31.05	+19 55.7	1.278	2.168	14.6	20.9	12 7	2 35.72	+8 26.5	1.832	2.690	12.5	20.9
12 17	2 26.96	+19 34.8	1.345	2.158	18.7	21.2	12 17	2 31.77	+8 42.3	1.928	2.696	15.5	21.1
<b>517063</b>	2013 <i>CV</i> <sub>21</sub>	11	9.1 205°49	0.6/ 9.5	18		<b>167425</b>	2003 <i>WC</i> <sub>153</sub>	11	9.1 51°07	7.4/ 4.3	18	
10 8	3 22.47	+19 54.8	2.243	3.088	11.6	22.0	10 8	3 20.57	+2 41.4	1.441	2.322	14.8	19.3
10 18	3 16.31	+19 44.0	2.164	3.084	8.5	21.8	10 18	3 15.19	+1 0.2	1.409	2.341	11.2	19.2
10 28	3 8.35	+19 24.8	2.111	3.080	4.9	21.6	10 28	3 7.74	+0 33.6	1.401	2.360	8.2	19.1
11 7	2 59.31	+18 58.7	2.086	3.076	1.2	21.3	11 7	2 59.26	+1 50.8	1.419	2.380	7.5	19.1
11 17	2 50.09	+18 28.4	2.091	3.071	3.0	21.4	11 17	2 50.93	+2 44.5	1.462	2.400	9.5	19.3
11 27	2 41.64	+17 57.8	2.126	3.066	6.8	21.7	11 27	2 43.87	+3 10.6	1.530	2.421	12.6	19.5
12 7	2 34.76	+17 30.9	2.188	3.060	10.2	21.9	12 7	2 38.90	+3 9.7	1.619	2.442	15.7	19.7
12 17	2 29.99	+17 11.4	2.274	3.054	13.1	22.1	12 17	2 36.44	+2 44.8	1.727	2.463	18.2	20.0
<b>492903</b>	2014 <i>QL</i> <sub>431</sub>	11	9.1 13°89	9°5/ 5.0	17		<b>373009</b>	2011 <i>DV</i> <sub>5</sub>	11	9.1 266°83	0°4/ 8.8	17	
10 8	3 21.39	-6 49.3	1.518	2.381	15.2	19.9	10 8	3 19.18	+17 9.9	2.424	3.277	10.6	21.8
10 18	3 15.80	-7 18.6	1.478	2.388	12.4	19.8	10 18	3 13.89	+16 46.3	2.340	3.265	7.6	21.6
10 28	3 8.10	-7 30.5	1.460	2.396	10.2	19.7	10 28	3 7.01	+16 16.3	2.281	3.253	4.3	21.3
11 7	2 59.26	-7 19.2	1.465	2.406	9.5	19.7	11 7	2 59.17	+15 42.1	2.251	3.241	0.8	21.0
11 17	2 50.46	-6 42.0	1.495	2.416	10.9	19.8	11 17	2 51.13	+15 6.7	2.250	3.229	3.1	21.2
11 27	2 42.85	-5 39.3	1.550	2.428	13.3	20.0	11 27	2 43.72	+14 34.0	2.280	3.216	6.6	21.4
12 7	2 37.30	-4 14.9	1.626	2.441	16.0	20.2	12 7	2 37.66	+14 7.4	2.336	3.204	9.8	21.6
12 17	2 34.28	-2 33.9	1.722	2.454	18.4	20.4	12 17	2 33.46	+13 49.8	2.417	3.191	12.6	21.8
<b>482901</b>	2014 <i>HA</i> <sub>12</sub>	11	9.1 312°36	0°7/ 8.7	18		<b>44277</b>	1998 <i>QY</i> <sub>72</sub>	11	9.1 150°50	6°7/ 14.2	18	
10 8	3 23.31	+15 32.3	1.597	2.465	14.3	20.9	10 8	3 26.34	+37 18.9	2.022	2.803	15.0	19.2
10 18	3 17.51	+15 28.2	1.524	2.457	10.4	20.6	10 18	3 19.58	+37 40.6	1.948	2.808	12.4	19.0
10 28	3 9.27	+15 18.0	1.474	2.449	5.9	20.4	10 28	3 10.40	+37 40.6	1.896	2.812	9.6	18.9
11 7	2 59.50	+15 4.1	1.451	2.441	1.1	20.0	11 7	2 59.76	+37 16.8	1.868	2.815	7.3	18.7
11 17	2 49.41	+14 49.6	1.455	2.434	4.3	20.2	11 17	2 48.94	+36 30.0	1.868	2.819	6.8	18.7
11 27	2 40.34	+14 39.0	1.486	2.426	9.0	20.5	11 27	2 39.25	+35 25.3	1.896	2.822	8.4	18.8
12 7	2 33.36	+14 36.3	1.542	2.420	13.3	20.7	12 7	2 31.74	+34 10.7	1.950	2.825	11.1	19.0
12 17	2 29.17	+14 44.2	1.619	2.413	16.9	21.0	12 17	2 27.04	+32 54.6	2.028	2.828	13.7	19.2
<b>483521</b>	2003 <i>SO</i> <sub>30</sub>	11	9.1 14°44	6°3/ 5.1	18		<b>309963</b>	2009 <i>HV</i> <sub>30</sub>	11	9.1 37°57	0°5/ 9.3	18	
10 8	3 15.00	+9 18.2	1.044	1.949	17.1	20.0	10 8	3 23.57	+18 25.8	1.767	2.625	13.7	20.4
10 18	3 11.88	+7 23.4	1.007	1.956	12.3	19.8	10 18	3 17.47	+18 29.3	1.701	2.627	9.9	20.2
10 28	3 6.12	+5 27.0	0.991	1.966	7.9	19.6	10 28	3 9.16	+18 24.8	1.658	2.630	5.7	20.0
11 7	2 58.95	+3 41.5	0.998	1.977	6.4	19.6	11 7	2 59.55	+18 13.7	1.643	2.633	1.2	19.7
11 17	2 51.81	+2 18.6	1.029	1.990	9.3	19.8	11 17	2 49.76	+17 58.7	1.656	2.636	3.6	19.8
11 27	2 46.12	+1 26.4	1.082	2.004	13.7	20.1	11 27	2 40.98	+17 43.8	1.697	2.639	7.9	20.1
12 7	2 42.87	+1 6.7	1.155	2.020	17.7	20.4	12 7	2 34.17	+17 33.3	1.764	2.642	11.8	20.4
12 17	2 42.52	+1 16.9	1.245	2.038	21.1	20.7	12 17	2 29.93	+17 30.5	1.853	2.646	15.1	20.6
<b>387569</b>	2001 <i>SC</i> <sub>285</sub>	11	9.1 348°52	3°2/ 7.2	18		<b>26719</b>	2001 <i>HQ</i> <sub>5</sub>	11	9.1 113°85	1°3/ 10.2	18	
10 8	3 18.94	+13 38.3	1.221	2.111	16.3	20.4	10 8	3 20.06	+22 59.1	2.541	3.377	10.7	18.6
10 18	3 14.73	+12 30.5	1.161	2.104	11.7	20.2	10 18	3 14.35	+22 40.8	2.475	3.388	7.9	18.5
10 28	3 7.81	+11 13.8	1.122	2.099	6.7	19.9	10 28	3 7.17	+22 12.9	2.435	3.399	4.7	18.3
11 7	2 59.27	+9 56.0	1.107	2.095	3.2	19.6	11 7	2 59.19	+21 37.1	2.423	3.410	1.7	18.1
11 17	2 50.51	+8 46.0	1.118	2.091	6.5	19.8	11 17	2 51.16	+20 56.0	2.441	3.421	2.7	18.2
11 27	2 43.03	+7 52.7	1.153	2.088	11.6	20.1	11 27	2 43.89	+20 13.7	2.490	3.431	5.8	18.4
12 7	2 37.97	+7 21.5	1.209	2.087	16.2	20.4	12 7	2 38.01	+19 34.0	2.567	3.442	8.7	18.6
12 17	2 35.97	+7 13.9	1.285	2.086	20.1	20.6	12 17	2 33.97	+19 0.5	2.668	3.452	11.3	18.8
<b>71756</b>	2000 <i>RQ</i> <sub>51</sub>	11	9.1 287°39	1°1/ 8.4	18		<b>221797</b>	2008 <i>BO</i> <sub>47</sub>	11	9.1 111°76	1°0/ 9.7	17	
10 8	3 22.42	+18 4.4	1.348	2.222	16.1	18.4	10 8	3 26.90	+20 59.9	1.631	2.483	14.9	21.0
10 18	3 17.22	+17 9.1	1.275	2.211	11.7	18.1	10 18	3 19.84	+20 46.9	1.576	2.498	10.9	20.8
10 28	3 9.24	+15 59.6	1.224	2.199	6.6	17.7	10 28	3 10.44	+20 21.9	1.544	2.513	6.3	20.5
11 7	2 59.53	+14 41.0	1.197	2.188	1.3	17.4	11 7	2 59.76	+19 47.0	1.539	2.528	1.7	20.3
11 17	2 49.48	+13 21.2	1.198	2.176	5.1	17.6	11 17	2 49.08	+19 6.3	1.562	2.542	3.7	20.4
11 27	2 40.63	+12 9.7	1.224	2.165	10.5	17.9	11 27	2 39.70	+18 25.7	1.614	2.556	8.3	20.8
12 7	2 34.20	+11 14.3	1.274	2.154	15.4	18.1	12 7	2 32.58	+17 50.9	1.691	2.569	12.3	21.0
12 17	2 30.90	+10 39.7	1.343	2.143	19.5	18.4	12 17	2 28.27	+17 26.4	1.790	2.582	15.6	21.3
<b>264862</b>	2002 <i>RM</i> <sub>131</sub>	11	9.1 135°07	5°9/ 15.2	18		<b>448892</b>	2011 <i>UE</i> <sub>287</sub>	11	9.1 44°99			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>54483</b>	2000 <i>OF</i> <sub>26</sub>		11 9.1 47°17'	1.7°/ 8.4	18		<b>166412</b>	2002 <i>OL</i> <sub>2</sub>		11 9.1 71°01'	2.6°/ 7.1	18	
10 8	3 26.45	+14 12.9	1.080	1.965	18.3	18.0	10 8	3 20.66	+14 22.9	1.689	2.560	13.5	19.5
10 18	3 20.20	+14 2.3	1.038	1.979	13.2	17.7	10 18	3 15.21	+12 58.1	1.637	2.572	9.6	19.3
10 28	3 10.87	+13 45.6	1.017	1.993	7.3	17.5	10 28	3 7.80	+11 26.3	1.610	2.584	5.4	19.0
11 7	2 59.85	+13 26.8	1.019	2.009	1.9	17.2	11 7	2 59.37	+ 9 54.3	1.610	2.597	2.6	18.9
11 17	2 48.88	+13 10.9	1.046	2.024	5.5	17.5	11 17	2 50.98	+ 8 29.7	1.639	2.609	5.3	19.1
11 27	2 39.68	+13 3.5	1.097	2.040	11.1	17.8	11 27	2 43.70	+ 7 19.5	1.696	2.621	9.3	19.4
12 7	2 33.44	+13 8.4	1.170	2.057	15.9	18.2	12 7	2 38.32	+ 6 28.2	1.777	2.634	12.9	19.6
12 17	2 30.70	+13 27.4	1.262	2.074	19.8	18.5	12 17	2 35.30	+ 5 57.3	1.880	2.646	15.9	19.8
<b>191219</b>	2002 <i>RC</i> <sub>71</sub>		11 9.1 335°07'	3°5'/11.8	17		<b>518269</b>	2016 <i>WW</i> <sub>56</sub>		11 9.1 291°97'	1°7'/ 8.1	18	
10 8	3 19.09	+28 53.9	2.006	2.836	13.4	19.7	10 8	3 22.14	+13 55.2	1.709	2.578	13.5	21.6
10 18	3 14.24	+28 42.2	1.924	2.827	10.4	19.4	10 18	3 16.54	+13 28.5	1.637	2.570	9.8	21.4
10 28	3 7.36	+28 13.9	1.866	2.819	7.0	19.2	10 28	3 8.72	+12 56.3	1.589	2.563	5.5	21.1
11 7	2 59.26	+27 29.4	1.833	2.811	4.0	19.0	11 7	2 59.56	+12 22.4	1.567	2.556	1.8	20.8
11 17	2 50.94	+26 31.7	1.829	2.804	4.1	19.0	11 17	2 50.16	+11 51.0	1.573	2.549	4.6	21.0
11 27	2 43.49	+25 26.3	1.853	2.797	7.2	19.2	11 27	2 41.70	+11 27.2	1.607	2.542	9.0	21.3
12 7	2 37.81	+24 19.9	1.903	2.791	10.6	19.4	12 7	2 35.17	+11 14.7	1.666	2.535	13.0	21.5
12 17	2 34.47	+23 19.0	1.977	2.785	13.7	19.6	12 17	2 31.18	+11 15.8	1.746	2.529	16.3	21.7
<b>380765</b>	2005 <i>TM</i> <sub>127</sub>		11 9.1 285°23'	1°0'/ 8.4	18		<b>21058</b>	1991 <i>GF</i> <sub>9</sub>		11 9.1 134°99'	2°3'/ 7.7	18	
10 8	3 22.17	+17 20.3	1.515	2.385	14.9	21.3	10 8	3 25.00	+13 36.9	1.612	2.479	14.3	19.0
10 18	3 16.75	+16 32.4	1.445	2.378	10.8	21.1	10 18	3 18.47	+12 46.9	1.556	2.488	10.2	18.8
10 28	3 8.88	+15 33.4	1.397	2.372	6.0	20.8	10 28	3 9.70	+11 51.2	1.523	2.497	5.8	18.6
11 7	2 59.54	+14 27.9	1.376	2.366	1.3	20.4	11 7	2 59.72	+10 54.7	1.518	2.506	2.3	18.4
11 17	2 49.97	+13 22.4	1.382	2.360	4.6	20.7	11 17	2 49.70	+10 3.5	1.541	2.514	5.1	18.6
11 27	2 41.51	+12 24.4	1.416	2.355	9.5	20.9	11 27	2 40.88	+ 9 23.3	1.591	2.521	9.5	18.8
12 7	2 35.22	+11 40.2	1.473	2.349	13.9	21.2	12 7	2 34.19	+ 8 58.3	1.667	2.528	13.4	19.1
12 17	2 31.75	+11 13.4	1.551	2.343	17.6	21.4	12 17	2 30.15	+ 8 49.9	1.763	2.535	16.6	19.3
<b>249479</b>	2009 <i>TN</i> <sub>7</sub>		11 9.1 359°70'	3°9'/11.4	17		<b>214974</b>	2008 <i>AX</i> <sub>56</sub>		11 9.1 108°61'	2°7'/ 7.3	18	
10 8	3 18.25	+26 51.4	1.456	2.312	16.1	19.6	10 8	3 21.22	+11 3.1	1.934	2.801	12.3	20.6
10 18	3 14.17	+27 2.8	1.390	2.308	12.4	19.4	10 18	3 15.51	+10 23.8	1.873	2.805	8.8	20.4
10 28	3 7.54	+26 56.4	1.345	2.306	8.2	19.1	10 28	3 7.98	+ 9 42.1	1.837	2.810	5.1	20.2
11 7	2 59.32	+26 32.2	1.324	2.305	4.5	18.9	11 7	2 59.42	+ 9 2.3	1.829	2.814	2.7	20.0
11 17	2 50.83	+25 53.0	1.328	2.305	4.8	18.9	11 17	2 50.77	+ 8 28.6	1.849	2.818	4.9	20.2
11 27	2 43.50	+25 5.2	1.358	2.307	8.7	19.2	11 27	2 43.04	+ 8 5.1	1.898	2.822	8.5	20.4
12 7	2 38.44	+24 16.5	1.412	2.311	12.8	19.4	12 7	2 36.99	+ 7 54.6	1.971	2.827	11.9	20.7
12 17	2 36.31	+23 34.0	1.487	2.315	16.4	19.7	12 17	2 33.15	+ 7 58.1	2.067	2.830	14.8	20.9
<b>107786</b>	2001 <i>FV</i> <sub>51</sub>		11 9.1 228°61'	0°9'/ 8.3	17		<b>225477</b>	2000 <i>GO</i> <sub>61</sub>		11 9.1 119°31'	0°7'/ 8.6	18	
10 8	3 19.17	+15 25.4	2.568	3.422	10.0	20.3	10 8	3 24.43	+17 32.5	1.704	2.563	14.0	20.8
10 18	3 13.78	+14 53.8	2.488	3.414	7.2	20.1	10 18	3 17.98	+16 52.3	1.647	2.576	10.0	20.6
10 28	3 6.92	+14 17.1	2.434	3.406	4.0	19.9	10 28	3 9.40	+16 3.0	1.614	2.587	5.6	20.4
11 7	2 59.19	+13 37.8	2.409	3.398	1.0	19.6	11 7	2 59.66	+15 8.5	1.608	2.598	1.1	20.1
11 17	2 51.32	+12 59.2	2.414	3.390	3.2	19.8	11 17	2 49.91	+14 14.2	1.631	2.609	4.0	20.3
11 27	2 44.07	+12 24.8	2.449	3.381	6.5	20.0	11 27	2 41.33	+13 26.1	1.683	2.620	8.4	20.6
12 7	2 38.09	+11 57.9	2.512	3.372	9.5	20.2	12 7	2 34.80	+12 49.1	1.760	2.630	12.3	20.9
12 17	2 33.85	+11 40.7	2.598	3.362	12.0	20.3	12 17	2 30.84	+12 26.2	1.858	2.640	15.5	21.1
<b>141354</b>	2002 <i>AJ</i> <sub>29</sub>		11 9.1 228°10'	2°3'/ 7.5	17		<b>321576</b>	2009 <i>TY</i> <sub>20</sub>		11 9.1 81°22'	1°8'/ 7.9	18	
10 8	3 28.62	+14 14.5	1.942	2.793	12.9	21.7	10 8	3 21.09	+12 31.6	2.159	3.020	11.4	20.5
10 18	3 21.08	+13 7.0	1.850	2.774	9.4	21.5	10 18	3 15.21	+12 8.5	2.105	3.035	8.1	20.3
10 28	3 11.26	+11 50.3	1.783	2.755	5.4	21.0	10 28	3 7.72	+11 42.8	2.076	3.049	4.6	20.1
11 7	2 59.98	+10 29.3	1.746	2.733	2.3	21.0	11 7	2 59.36	+11 17.4	2.075	3.063	1.8	19.9
11 17	2 48.34	+ 9 10.4	1.740	2.710	5.1	21.1	11 17	2 51.00	+10 55.5	2.105	3.078	3.9	20.1
11 27	2 37.56	+ 8 0.8	1.765	2.686	9.4	21.3	11 27	2 43.49	+10 40.4	2.163	3.092	7.3	20.4
12 7	2 28.65	+ 7 6.2	1.816	2.659	13.3	21.5	12 7	2 37.54	+10 34.4	2.247	3.106	10.5	20.6
12 17	2 22.29	+ 6 29.8	1.890	2.631	16.7	21.7	12 17	2 33.59	+10 38.8	2.354	3.120	13.1	20.8
<b>344231</b>	2001 <i>SX</i> <sub>14</sub>		11 9.1 16°94'	0°4'/ 9.3	18		<b>299674</b>	2006 <i>QM</i> <sub>21</sub>		11 9.1 117°83'	2°3'/ 7.5	18	
10 8	3 21.00	+19 6.9	1.079	1.965	18.2	20.0	10 8	3 21.02	+13 11.4	1.884	2.751	12.6	20.4
10 18	3 16.47	+18 54.7	1.030	1.971	13.3	19.7	10 18	3 15.41	+12 19.9	1.822	2.755	9.0	20.2
10 28	3 8.90	+18 29.2	1.002	1.978	7.6	19.4	10 28	3 7.93	+11 23.5	1.786	2.760	5.1	20.0
11 7	2 59.57	+17 54.1	0.996	1.987	1.5	19.1	11 7	2 59.41	+10 26.9	1.777	2.764	2.3	19.8
11 17	2 50.13	+17 15.0	1.015	1.996	4.7	19.3	11 17	2 50.83	+ 9 35.3	1.797	2.768	4.7	20.0
11 27	2 42.29	+16 39.9	1.057	2.007	10.4	19.7	11 27	2 43.18	+ 8 53.8	1.845	2.773	8.5	20.2
12 7	2 37.25	+16 15.4	1.121	2.020	15.4	20.0	12 7	2 37.27	+ 8 26.1	1.918	2.777	12.0	20.5
12 17	2 35.60	+16 5.5	1.204	2.033	19.5	20.3	12 17	2 33.61	+ 8 13.7	2.014	2.781	15.0	20.7
<b>408053</b>	2012 <i>FP</i> <sub>75</sub>		11 9.1 197°74'	3°7'/ 6.4	18		<b>104177</b>	2000 <i>EO</i> <sub>87</sub>		11 9.1 286°62'	0°3'/ 8.9	18	
10 8	3 20.45	+ 5 39.2	2.355	3.216	10.6	20.6	10 8	3 24.36	+17 20.6	1.493	2.360	15.2	19.5
10 18	3 14.72	+ 5 10.9	2.289	3.215	7.8	20.4	10 18	3 18.64	+17 9.3	1.410	2.342	11.1	19.2
10 28	3 7.46	+ 4 44.8	2.248	3.214	5.0	20.2	10 28	3 10.17	+16 48.7	1.350	2.324	6.4	18.9
11 7	2 59.32	+ 4 24.4	2.237	3.212	3.7	20.1	11 7	2 59.88	+16 21.2	1.315	2.305	1.1	18.5
11 17	2 51.07	+ 4 12.8	2.254	3.211	5.3	20.2	11 17	2 49.06	+15 50.6	1.307	2.287	4.4	18.7
11 27	2 43.53	+ 4 12.4	2.300	3.209	8.1	20.4	11 27	2 39.23	+15 22.7	1.327	2.269	9.7	18.9
12 7	2 37.36	+ 4 24.5	2.373	3.207	10.9	20.6	12 7	2 31.66	+15 3.2	1.370	2.251	14.4	19.2
12 17	2 33.04	+ 4 48.9	2.467	3.205	13.3	20.8	12 17	2 27.14	+14 56.3	1.434	2.233	18.5	19.4
<b>85090</b>	4028 <i>T</i> -2		11 9.1 288										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>501548</b>	2014 <i>KX</i> <sub>81</sub>	11	9.1 236°70	0°7/ 9.6 18			<b>19735</b>	1999 <i>XN</i> <sub>212</sub>	11	9.1 88°32	4°4/ 6.9 18		
10 8	3 22.44	+20 48.7	2.022	2.870	12.6	21.8	10 8	3 26.74	+4 51.5	1.760	2.622	13.5	17.3
10 18	3 16.56	+20 22.9	1.940	2.861	9.2	21.5	10 18	3 19.45	+4 37.8	1.714	2.640	9.9	17.1
10 28	3 8.68	+19 46.3	1.882	2.851	5.4	21.3	10 28	3 10.17	+4 28.7	1.693	2.659	6.3	17.0
11 7	2 59.58	+19 0.7	1.852	2.841	1.3	21.0	11 7	2 59.86	+4 27.7	1.700	2.677	4.4	16.9
11 17	2 50.25	+18 10.1	1.851	2.831	3.3	21.1	11 17	2 49.61	+4 37.7	1.735	2.695	6.3	17.0
11 27	2 41.74	+17 19.7	1.880	2.820	7.4	21.4	11 27	2 40.53	+5 0.5	1.798	2.713	9.6	17.3
12 7	2 34.96	+16 35.0	1.935	2.809	11.1	21.6	12 7	2 33.45	+5 35.9	1.887	2.730	12.9	17.5
12 17	2 30.49	+16 0.1	2.013	2.798	14.4	21.8	12 17	2 28.84	+6 23.0	1.997	2.747	15.6	17.8
<b>422745</b>	2001 <i>SV</i> <sub>193</sub>	11	9.1 117°68	1°8/ 7.9 18			<b>120033</b>	2003 <i>AZ</i> <sub>70</sub>	11	9.1 71°43	6°1/ 14.2 18		
10 8	3 24.80	+14 33.3	1.712	2.575	13.8	21.2	10 8	3 25.78	+36 23.5	1.916	2.706	15.4	19.6
10 18	3 18.19	+13 50.2	1.658	2.589	9.8	21.0	10 18	3 19.01	+36 25.7	1.862	2.731	12.4	19.5
10 28	3 9.50	+13 1.1	1.629	2.603	5.5	20.8	10 28	3 10.00	+36 5.3	1.831	2.755	9.3	19.3
11 7	2 59.70	+12 10.4	1.627	2.616	1.8	20.6	11 7	2 59.83	+35 21.6	1.824	2.779	6.8	19.2
11 17	2 49.92	+11 23.4	1.655	2.629	4.6	20.8	11 17	2 49.75	+34 17.7	1.845	2.803	6.2	19.2
11 27	2 41.31	+10 45.4	1.710	2.642	8.8	21.1	11 27	2 41.01	+33 0.0	1.894	2.827	8.0	19.4
12 7	2 34.72	+10 20.3	1.790	2.654	12.5	21.3	12 7	2 34.49	+31 37.2	1.970	2.851	10.7	19.6
12 17	2 30.66	+10 9.9	1.893	2.665	15.6	21.6	12 17	2 30.68	+30 17.2	2.069	2.874	13.3	19.8
<b>407169</b>	2009 <i>UU</i> <sub>42</sub>	11	9.1 116°21	0°6/ 8.6 18			<b>146295</b>	2001 <i>HA</i> <sub>43</sub>	11	9.1 159°82	0°4/ 8.9 16		
10 8	3 19.76	+16 45.3	2.381	3.234	10.7	21.3	10 8	3 26.16	+17 28.8	1.875	2.727	13.3	21.4
10 18	3 14.21	+16 11.6	2.317	3.244	7.7	21.1	10 18	3 19.19	+17 5.3	1.810	2.734	9.6	21.2
10 28	3 7.16	+15 31.9	2.280	3.253	4.3	20.9	10 28	3 10.12	+16 33.6	1.769	2.741	5.4	21.0
11 7	2 59.29	+14 49.0	2.271	3.262	0.9	20.7	11 7	2 59.87	+15 56.6	1.756	2.746	0.9	20.7
11 17	2 51.39	+14 6.4	2.293	3.270	3.1	20.9	11 17	2 49.52	+15 18.0	1.773	2.751	3.7	20.9
11 27	2 44.24	+13 28.0	2.344	3.279	6.5	21.1	11 27	2 40.21	+14 42.9	1.819	2.755	7.9	21.2
12 7	2 38.51	+12 57.4	2.423	3.287	9.6	21.3	12 7	2 32.85	+14 15.7	1.891	2.759	11.7	21.4
12 17	2 34.63	+12 36.7	2.525	3.295	12.2	21.5	12 17	2 27.97	+13 59.7	1.986	2.761	14.9	21.6
<b>209767</b>	2005 <i>EV</i> <sub>282</sub>	11	9.1 276°13	2°5/ 7.9 18			<b>37602</b>	1992 <i>HD</i> <sub>1</sub>	11	9.1 146°18	0°3/ 8.8 18		
10 8	3 26.32	+9 28.5	1.800	2.662	13.3	20.0	10 8	3 20.66	+16 58.0	2.835	3.680	9.5	20.5
10 18	3 19.48	+9 37.5	1.727	2.656	9.6	19.7	10 18	3 14.67	+16 36.0	2.769	3.691	6.8	20.4
10 28	3 10.39	+9 47.5	1.678	2.650	5.6	19.5	10 28	3 7.37	+16 8.9	2.730	3.701	3.8	20.2
11 7	2 59.90	+10 0.7	1.657	2.644	2.5	19.3	11 7	2 59.38	+15 38.7	2.721	3.711	0.7	19.9
11 17	2 49.13	+10 19.0	1.666	2.638	4.9	19.4	11 17	2 51.34	+15 7.9	2.743	3.720	2.6	20.1
11 27	2 39.28	+10 44.4	1.702	2.632	8.9	19.7	11 27	2 43.95	+14 39.5	2.795	3.729	5.7	20.3
12 7	2 31.35	+11 18.4	1.765	2.626	12.8	19.9	12 7	2 37.79	+14 16.4	2.876	3.737	8.4	20.5
12 17	2 25.98	+12 1.4	1.850	2.620	16.0	20.1	12 17	2 33.26	+14 0.5	2.982	3.745	10.7	20.7
<b>216868</b>	2008 <i>DT</i> <sub>9</sub>	11	9.1 292°51	3°5/ 6.8 18			<b>324297</b>	2006 <i>DA</i> <sub>57</sub>	11	9.1 165°40	2°2/ 7.1 18		
10 8	3 20.79	+9 1.7	1.889	2.759	12.4	20.7	10 8	3 19.05	+10 3.0	2.796	3.653	9.2	21.3
10 18	3 15.31	+8 18.7	1.824	2.756	9.0	20.5	10 18	3 13.54	+9 30.8	2.730	3.657	6.6	21.1
10 28	3 7.94	+7 34.7	1.783	2.754	5.5	20.3	10 28	3 6.76	+8 57.6	2.690	3.660	3.9	20.9
11 7	2 59.47	+6 54.4	1.770	2.752	3.5	20.2	11 7	2 59.27	+8 26.2	2.680	3.663	2.2	20.8
11 17	2 50.85	+6 22.5	1.785	2.749	5.6	20.3	11 17	2 51.72	+7 59.5	2.700	3.666	3.8	20.9
11 27	2 43.11	+6 3.1	1.827	2.747	9.1	20.5	11 27	2 44.77	+7 40.1	2.750	3.668	6.5	21.1
12 7	2 37.07	+5 58.5	1.895	2.745	12.5	20.7	12 7	2 38.98	+7 29.9	2.828	3.670	9.1	21.3
12 17	2 33.26	+6 9.2	1.983	2.743	15.4	20.9	12 17	2 34.76	+7 30.0	2.929	3.672	11.3	21.5
<b>42707</b>	1998 <i>QM</i> <sub>2</sub>	11	9.1 121°77	0°9/ 8.5 18			<b>72330</b>	2001 <i>BU</i> <sub>59</sub>	11	9.1 221°78	6°5/ 4.1 18		
10 8	3 24.12	+17 36.2	1.576	2.440	14.7	17.8	10 8	3 20.84	+1 17.5	1.940	2.806	12.3	19.3
10 18	3 17.95	+16 47.9	1.517	2.448	10.6	17.6	10 18	3 15.29	-0 2.8	1.879	2.800	9.5	19.1
10 28	3 9.48	+15 49.2	1.482	2.456	5.9	17.4	10 28	3 7.91	-1 18.4	1.842	2.795	7.1	19.0
11 7	2 59.73	+14 45.0	1.473	2.464	1.2	17.1	11 7	2 59.49	-2 22.5	1.833	2.789	6.6	18.9
11 17	2 49.94	+13 41.3	1.493	2.471	4.3	17.3	11 17	2 50.93	-3 9.1	1.852	2.784	8.3	19.0
11 27	2 41.37	+12 45.2	1.540	2.478	9.0	17.6	11 27	2 43.22	-3 34.2	1.896	2.777	11.1	19.2
12 7	2 34.97	+12 2.2	1.612	2.484	13.1	17.9	12 7	2 37.14	-3 36.8	1.965	2.771	13.9	19.4
12 17	2 31.27	+11 35.6	1.705	2.491	16.5	18.1	12 17	2 33.22	-3 18.1	2.053	2.764	16.4	19.6
<b>473647</b>	2015 <i>XL</i> <sub>327</sub>	11	9.1 66°64	1°2/ 8.2 18			<b>154519</b>	2003 <i>FS</i> <sub>78</sub>	11	9.1 187°40	5°4/ 11.9 18		
10 8	3 20.21	+14 32.7	2.130	2.991	11.5	21.4	10 8	3 29.91	+30 15.2	1.843	2.656	15.1	19.9
10 18	3 14.70	+14 7.9	2.067	2.997	8.2	21.2	10 18	3 22.43	+31 3.8	1.767	2.656	11.9	19.7
10 28	3 7.51	+13 38.5	2.029	3.003	4.6	21.0	10 28	3 12.23	+31 36.3	1.714	2.655	8.5	19.5
11 7	2 59.39	+13 7.6	2.020	3.009	1.3	20.8	11 7	3 0.29	+31 49.4	1.687	2.654	5.8	19.3
11 17	2 51.18	+12 38.4	2.040	3.016	3.7	21.0	11 17	2 47.93	+31 42.8	1.688	2.653	5.8	19.3
11 27	2 43.80	+12 14.8	2.088	3.022	7.3	21.2	11 27	2 36.63	+31 20.1	1.718	2.652	8.6	19.5
12 7	2 37.97	+11 59.9	2.163	3.029	10.6	21.5	12 7	2 27.62	+30 48.1	1.773	2.650	11.9	19.7
12 17	2 34.16	+11 55.4	2.261	3.035	13.3	21.7	12 17	2 21.63	+30 14.1	1.852	2.647	15.0	19.9
<b>473610</b>	2015 <i>XK</i> <sub>273</sub>	11	9.1 82°51	1°6/ 10.5 18			<b>19440</b>	Sumatijain	11	9.1 289°69	3°9/ 11.1 18		
10 8	3 20.32	+24 21.2	2.173	3.012	12.2	21.0	10 8	3 25.37	+26 16.6	1.386	2.236	17.1	18.4
10 18	3 14.79	+23 50.1	2.108	3.022	9.0	20.8	10 18	3 19.78	+26 28.5	1.302	2.219	13.2	18.1
10 28	3 7.56	+23 6.6	2.067	3.031	5.5	20.6	10 28	3 11.02	+26 22.1	1.240	2.202	8.7	17.8
11 7	2 59.39	+22 12.8	2.053	3.040	2.1	20.4	11 7	3 0.12	+25 56.1	1.202	2.184	4.5	17.5
11 17	2 51.19	+21 12.5	2.070	3.050	3.0	20.5	11 17	2 48.57	+25 12.3	1.189	2.167	5.2	17.5
11 27	2 43.88	+20 11.1	2.116	3.059	6.5	20.8	11 27	2 38.16	+24 17.5	1.203	2.150	9.8	17.7
12 7	2 38.18	+19 13.9	2.189	3.068	9.8	21.0	12 7	2 30.38	+23 21.2	1.240	2.133	14.7	17.9
12 17	2 34.58	+18 25.5	2.286	3.077	12.6	21.2	12 17	2 26.10	+22 32.2	1.297	2.117	18.9	18.2
<b>274313</b>	2008 <i>QE</i> <sub>42</sub>	11	9.1 54°82	2°2/ 7.4 18			<b>400191</b>	2006 <i>XL</i> <sub>20</sub>	11	9.1 303°90	4°1/ 12.2 18		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>302725</b>	2002 <i>TN</i> <sub>311</sub>	11	9.1 212°59	1°9/ 7.9 18			<b>452990</b>	2007 <i>GF</i> <sub>40</sub>	11	9.1 212°52	0°1/ 9.0 17		
10 8	3 24.19	+11 33.7	2.136	2.992	11.7	21.0	10 8	3 21.26	+17 11.8	2.518	3.366	10.4	22.2
10 18	3 17.66	+11 25.7	2.060	2.988	8.4	20.8	10 18	3 15.38	+17 3.4	2.439	3.362	7.5	22.0
10 28	3 9.27	+11 15.9	2.011	2.983	4.8	20.6	10 28	3 7.93	+16 49.6	2.386	3.357	4.3	21.8
11 7	2 59.76	+11 6.8	1.990	2.977	1.9	20.4	11 7	2 59.55	+16 31.8	2.362	3.352	0.7	21.5
11 17	2 50.03	+11 0.8	1.999	2.972	4.1	20.5	11 17	2 51.00	+16 12.3	2.368	3.347	2.8	21.7
11 27	2 41.09	+11 0.9	2.037	2.966	7.8	20.8	11 27	2 43.10	+15 54.2	2.405	3.342	6.3	21.9
12 7	2 33.75	+11 9.2	2.102	2.959	11.2	21.0	12 7	2 36.54	+15 40.6	2.469	3.336	9.3	22.1
12 17	2 28.58	+11 27.1	2.190	2.953	14.1	21.2	12 17	2 31.83	+15 33.7	2.557	3.330	12.0	22.3
<b>92073</b>	1999 <i>XA</i> <sub>3</sub>	11	9.1 21°28	2°6/ 7.6 18			<b>267947</b>	2004 <i>EA</i> <sub>68</sub>	11	9.1 176°59	2°3/ 10.7 18		
10 8	3 18.76	+12 42.8	1.386	2.271	15.0	18.6	10 8	3 26.44	+25 6.4	1.959	2.791	13.6	21.6
10 18	3 14.21	+12 3.3	1.344	2.285	10.7	18.4	10 18	3 19.50	+24 55.1	1.885	2.793	10.2	21.4
10 28	3 7.41	+11 19.9	1.323	2.300	6.1	18.2	10 28	3 10.39	+24 29.6	1.835	2.795	6.4	21.1
11 7	2 59.41	+10 37.9	1.328	2.316	2.6	18.0	11 7	2 59.99	+23 50.8	1.812	2.797	2.8	20.9
11 17	2 51.43	+10 3.1	1.359	2.333	5.4	18.2	11 17	2 49.44	+23 1.9	1.819	2.797	3.6	21.0
11 27	2 44.70	+9 40.5	1.415	2.352	9.8	18.5	11 27	2 39.90	+22 8.2	1.855	2.797	7.4	21.2
12 7	2 40.10	+9 33.2	1.495	2.371	13.7	18.8	12 7	2 32.33	+21 16.3	1.918	2.796	11.1	21.4
12 17	2 38.12	+9 41.8	1.595	2.392	17.0	19.1	12 17	2 27.30	+20 31.6	2.005	2.795	14.3	21.6
<b>287709</b>	2003 <i>QT</i> <sub>68</sub>	11	9.1 57°33	4°6/ 11.8 18			<b>108858</b>	2001 <i>OJ</i> <sub>96</sub>	11	9.1 336°93	4°2/ 11.1 18		
10 8	3 26.76	+28 29.2	1.502	2.339	16.8	20.3	10 8	3 25.45	+26 8.7	1.380	2.230	17.2	19.0
10 18	3 20.13	+28 52.7	1.452	2.357	12.9	20.1	10 18	3 19.69	+26 36.5	1.310	2.226	13.2	18.8
10 28	3 10.82	+28 57.3	1.422	2.376	8.7	19.9	10 28	3 10.89	+26 47.4	1.261	2.221	8.7	18.5
11 7	3 0.02	+28 41.9	1.418	2.395	5.2	19.8	11 7	3 0.12	+26 39.6	1.236	2.217	4.8	18.3
11 17	2 49.19	+28 9.2	1.441	2.414	5.3	19.8	11 17	2 48.92	+26 14.7	1.237	2.214	5.3	18.3
11 27	2 39.83	+27 25.4	1.490	2.434	8.7	20.1	11 27	2 39.00	+25 38.5	1.263	2.210	9.5	18.6
12 7	2 33.02	+26 38.7	1.564	2.453	12.4	20.4	12 7	2 31.73	+24 59.3	1.314	2.208	14.0	18.8
12 17	2 29.32	+25 56.4	1.660	2.473	15.7	20.6	12 17	2 27.86	+24 24.9	1.385	2.205	17.9	19.1
<b>337296</b>	2000 <i>XS</i> <sub>53</sub>	11	9.1 9°05	0°2/ 9.2 18			<b>59389</b>	Oskarvonmiller	11	9.1 193°82	2°2/ 7.5 18		
10 8	3 19.25	+19 50.2	1.177	2.060	17.3	19.4	10 8	3 22.82	+13 38.4	1.907	2.770	12.6	20.2
10 18	3 15.12	+19 17.7	1.122	2.061	12.6	19.2	10 18	3 16.80	+12 42.2	1.837	2.768	9.1	19.9
10 28	3 8.17	+18 30.6	1.088	2.064	7.2	18.9	10 28	3 8.82	+11 40.0	1.793	2.766	5.1	19.7
11 7	2 59.58	+17 33.2	1.078	2.068	1.3	18.5	11 7	2 59.72	+10 36.5	1.777	2.764	2.2	19.5
11 17	2 50.83	+16 32.7	1.092	2.073	4.6	18.8	11 17	2 50.48	+9 37.3	1.789	2.761	4.7	19.7
11 27	2 43.49	+15 37.7	1.131	2.080	10.1	19.1	11 27	2 42.16	+8 47.9	1.831	2.757	8.7	19.9
12 7	2 38.72	+14 55.7	1.192	2.088	14.9	19.4	12 7	2 35.61	+8 12.6	1.898	2.754	12.3	20.1
12 17	2 37.11	+14 30.9	1.273	2.097	18.9	19.7	12 17	2 31.36	+7 53.4	1.987	2.749	15.3	20.3
<b>145922</b>	1999 <i>VZ</i> <sub>138</sub>	11	9.1 273°09	2°1/ 8.0 18			<b>156840</b>	2003 <i>CC</i> <sub>5</sub>	11	9.1 253°56	1°3/ 9.8 18		
10 8	3 25.08	+13 2.9	1.535	2.405	14.7	20.8	10 8	3 25.59	+20 49.7	1.612	2.467	14.9	20.0
10 18	3 19.06	+12 40.0	1.454	2.387	10.7	20.5	10 18	3 19.34	+20 52.1	1.537	2.460	11.0	19.8
10 28	3 10.40	+12 12.0	1.395	2.370	6.1	20.2	10 28	3 10.51	+20 43.2	1.484	2.453	6.6	19.5
11 7	3 0.00	+11 42.6	1.363	2.352	2.2	19.9	11 7	3 0.05	+20 23.9	1.458	2.447	2.0	19.2
11 17	2 49.12	+11 16.3	1.358	2.333	5.2	20.0	11 17	2 49.24	+19 57.0	1.459	2.440	3.9	19.3
11 27	2 39.20	+10 58.6	1.380	2.315	10.1	20.3	11 27	2 39.49	+19 27.7	1.488	2.433	8.6	19.6
12 7	2 31.45	+10 53.6	1.427	2.296	14.7	20.5	12 7	2 31.95	+19 1.9	1.543	2.425	13.0	19.8
12 17	2 26.65	+11 3.6	1.493	2.278	18.5	20.7	12 17	2 27.32	+18 44.5	1.618	2.418	16.7	20.1
<b>386076</b>	2007 <i>JG</i> <sub>7</sub>	11	9.1 257°91	0°2/ 9.0 18			<b>156635</b>	2002 <i>JJ</i> <sub>20</sub>	11	9.1 58°23	4°8/ 6.7 18		
10 8	3 22.95	+18 54.3	1.605	2.468	14.5	21.6	10 8	3 25.04	+2 21.5	1.949	2.807	12.5	19.1
10 18	3 17.25	+18 20.9	1.537	2.467	10.6	21.4	10 18	3 18.02	+2 12.2	1.912	2.834	9.3	19.0
10 28	3 9.21	+17 36.3	1.492	2.465	6.0	21.1	10 28	3 9.31	+2 9.4	1.901	2.861	6.3	18.9
11 7	2 59.77	+16 43.9	1.474	2.464	1.0	20.8	11 7	2 59.78	+2 16.3	1.917	2.888	4.8	18.8
11 17	2 50.15	+15 49.0	1.483	2.463	4.0	21.0	11 17	2 50.39	+2 34.8	1.963	2.915	6.3	19.0
11 27	2 41.63	+14 58.2	1.520	2.462	8.7	21.3	11 27	2 42.08	+3 6.0	2.036	2.942	9.2	19.2
12 7	2 35.23	+14 17.4	1.582	2.461	13.0	21.5	12 7	2 35.55	+3 49.1	2.135	2.969	12.0	19.4
12 17	2 31.53	+13 50.6	1.665	2.459	16.5	21.7	12 17	2 31.21	+4 42.7	2.256	2.996	14.3	19.7
<b>162292</b>	1999 <i>VO</i> <sub>142</sub>	11	9.1 12°19	1°3/ 8.3 18			<b>191562</b>	2003 <i>WD</i> <sub>81</sub>	11	9.1 7°15	1°3/ 8.5 18		
10 8	3 21.35	+15 58.9	1.566	2.438	14.4	20.0	10 8	3 22.16	+12 44.6	1.745	2.613	13.3	19.1
10 18	3 16.07	+15 20.4	1.504	2.439	10.3	19.8	10 18	3 16.51	+12 56.5	1.681	2.614	9.6	18.8
10 28	3 8.51	+14 33.7	1.465	2.440	5.8	19.5	10 28	3 8.74	+13 6.4	1.642	2.616	5.4	18.6
11 7	2 59.64	+13 43.1	1.451	2.441	1.5	19.2	11 7	2 59.72	+13 16.0	1.630	2.619	1.5	18.3
11 17	2 50.63	+12 54.2	1.466	2.443	4.5	19.5	11 17	2 50.52	+13 27.5	1.645	2.623	4.1	18.5
11 27	2 42.72	+12 13.1	1.507	2.445	9.1	19.7	11 27	2 42.27	+13 43.3	1.689	2.627	8.3	18.8
12 7	2 36.87	+11 44.7	1.572	2.448	13.2	20.0	12 7	2 35.90	+14 5.4	1.758	2.633	12.1	19.1
12 17	2 33.65	+11 31.7	1.659	2.451	16.7	20.2	12 17	2 31.99	+14 35.3	1.848	2.638	15.3	19.3
<b>70538</b>	1999 <i>TD</i> <sub>122</sub>	11	9.1 121°98	2°6/ 10.9 18			<b>120446</b>	1981 <i>EF</i> <sub>21</sub>	11	9.1 228°15	4°3/ 6.0 18		
10 8	3 26.31	+25 22.4	2.006	2.836	13.4	18.8	10 8	3 21.42	+7 51.8	1.888	2.756	12.4	20.2
10 18	3 19.27	+25 27.4	1.944	2.851	10.1	18.6	10 18	3 15.82	+6 45.8	1.820	2.751	9.1	20.0
10 28	3 10.18	+25 19.2	1.906	2.865	6.4	18.4	10 28	3 8.30	+5 38.7	1.776	2.744	5.8	19.8
11 7	2 59.93	+24 58.2	1.896	2.878	3.1	18.2	11 7	2 59.66	+4 36.4	1.761	2.738	4.3	19.7
11 17	2 49.62	+24 26.8	1.914	2.892	3.7	18.3	11 17	2 50.85	+3 44.7	1.773	2.731	6.4	19.8
11 27	2 40.37	+23 49.6	1.963	2.904	7.1	18.5	11 27	2 42.91	+3 8.6	1.814	2.724	9.8	20.0
12 7	2 33.06	+23 12.2	2.038	2.916	10.5	18.7	12 7	2 36.67	+2 50.9	1.879	2.717	13.2	20.2
12 17	2 28.22	+22 39.6	2.137	2.928	13.4	19.0	12 17	2 32.67	+2 51.9	1.965	2.709	16.0	20.4
<b>183120</b>	2002 <i>RX</i> <sub>169</sub>	11	9.1 57°26	0°7/ 8.7 18			<b>520684</b>	2014 <i>QZ</i> <sub>459</sub>	11	9.1 182°11	3°4/ 6.4 18		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>514713</b>	2006 <i>SU</i> <sub>333</sub>	11	9.1	71°63	3°0/10.8	18	<b>337951</b>	2002 <i>AV</i> <sub>30</sub>	11	9.2	333°69	1°6/ 9.9	18
10 8	3 26.46	+24 18.1	1.831	2.668	14.2	21.0	10 8	3 20.33	+22 4.8	1.258	2.132	17.0	20.4
10 18	3 19.67	+24 49.9	1.767	2.678	10.7	20.8	10 18	3 16.12	+21 50.9	1.185	2.117	12.7	20.1
10 28	3 10.56	+25 9.8	1.727	2.687	6.8	20.6	10 28	3 8.96	+21 20.5	1.132	2.104	7.6	19.8
11 7	3 0.07	+25 16.7	1.713	2.696	3.4	20.5	11 7	2 59.87	+20 35.4	1.103	2.092	2.4	19.5
11 17	2 49.39	+25 11.9	1.728	2.705	4.1	20.5	11 17	2 50.32	+19 40.7	1.098	2.080	4.4	19.6
11 27	2 39.77	+24 59.0	1.772	2.714	7.7	20.8	11 27	2 41.97	+18 44.4	1.119	2.070	9.9	19.9
12 7	2 32.23	+24 43.2	1.842	2.724	11.3	21.0	12 7	2 36.17	+17 55.5	1.162	2.060	15.0	20.1
12 17	2 27.38	+24 29.6	1.935	2.733	14.4	21.2	12 17	2 33.68	+17 20.3	1.224	2.052	19.4	20.4
<b>471040</b>	2009 <i>TR</i> <sub>26</sub>	11	9.1	10°59	3°3/ 7.8	18	<b>277293</b>	2005 <i>SN</i> <sub>106</sub>	11	9.2	310°21	0°7/ 9.5	18
10 8	3 20.24	+11 37.2	0.971	1.872	18.4	19.7	10 8	3 23.17	+19 42.3	1.380	2.249	16.1	20.8
10 18	3 16.13	+11 13.9	0.926	1.874	13.3	19.5	10 18	3 17.99	+19 33.3	1.303	2.235	11.9	20.5
10 28	3 8.88	+10 47.6	0.900	1.879	7.7	19.2	10 28	3 9.96	+19 12.0	1.248	2.221	6.9	20.2
11 7	2 59.78	+10 24.1	0.896	1.884	3.4	19.0	11 7	3 0.05	+18 40.3	1.217	2.207	1.6	19.9
11 17	2 50.55	+10 9.8	0.915	1.892	6.7	19.2	11 17	2 49.66	+18 2.2	1.212	2.193	4.3	20.0
11 27	2 42.93	+10 10.2	0.957	1.901	12.2	19.5	11 27	2 40.37	+17 24.5	1.234	2.180	9.7	20.3
12 7	2 38.19	+10 27.9	1.019	1.912	17.1	19.9	12 7	2 33.49	+16 53.9	1.278	2.168	14.6	20.5
12 17	2 36.93	+11 2.7	1.098	1.924	21.2	20.2	12 17	2 29.81	+16 35.7	1.343	2.156	18.8	20.8
<b>211321</b>	2002 <i>SG</i> <sub>58</sub>	11	9.1	39°81	2°2/ 8.2	18	<b>509906</b>	2009 <i>DO</i> <sub>93</sub>	11	9.2	274°80	2°6/ 7.9	17
10 8	3 25.46	+10 53.9	1.622	2.489	14.2	19.4	10 8	3 25.43	+12 56.8	1.307	2.184	16.3	21.5
10 18	3 18.94	+11 0.9	1.564	2.496	10.2	19.2	10 18	3 19.55	+12 25.0	1.239	2.176	11.8	21.2
10 28	3 10.13	+11 7.2	1.530	2.504	5.8	19.0	10 28	3 10.78	+11 47.3	1.193	2.168	6.8	20.9
11 7	3 0.00	+11 15.3	1.523	2.511	2.2	18.8	11 7	3 0.19	+11 8.7	1.172	2.160	2.6	20.6
11 17	2 49.75	+11 27.4	1.545	2.520	4.8	19.0	11 17	2 49.23	+10 35.1	1.177	2.152	5.9	20.8
11 27	2 40.62	+11 46.0	1.593	2.528	9.0	19.2	11 27	2 39.52	+10 12.8	1.208	2.144	11.1	21.1
12 7	2 33.60	+12 12.8	1.667	2.537	12.9	19.5	12 7	2 32.32	+10 6.3	1.261	2.136	15.9	21.3
12 17	2 29.25	+12 48.7	1.763	2.545	16.2	19.7	12 17	2 28.37	+10 17.4	1.334	2.128	19.8	21.6
<b>445785</b>	2011 <i>YZ</i> <sub>65</sub>	11	9.1	105°52	5°7/13.5	17	<b>73156</b>	2002 <i>GZ</i> <sub>122</sub>	11	9.2	74°72	2°4/ 7.7	18
10 8	3 24.38	+34 42.9	2.117	2.911	14.0	20.7	10 8	3 25.00	+12 18.7	1.639	2.506	14.1	19.8
10 18	3 18.11	+35 1.7	2.044	2.916	11.3	20.6	10 18	3 18.32	+11 41.4	1.599	2.532	10.0	19.6
10 28	3 9.67	+35 1.7	1.993	2.920	8.5	20.4	10 28	3 9.62	+11 1.1	1.584	2.557	5.7	19.4
11 7	2 59.92	+34 41.4	1.968	2.925	6.2	20.3	11 7	2 59.92	+10 22.3	1.596	2.583	2.5	19.2
11 17	2 49.99	+34 2.0	1.971	2.929	5.8	20.3	11 17	2 50.37	+ 9 49.7	1.635	2.608	5.0	19.5
11 27	2 41.06	+33 7.9	2.002	2.934	7.7	20.4	11 27	2 42.09	+ 9 27.7	1.703	2.633	9.0	19.8
12 7	2 34.09	+32 6.2	2.060	2.938	10.4	20.6	12 7	2 35.88	+ 9 18.8	1.796	2.657	12.5	20.0
12 17	2 29.65	+31 3.9	2.141	2.942	13.1	20.8	12 17	2 32.19	+ 9 24.0	1.910	2.682	15.5	20.3
<b>55969</b>	1998 <i>KH</i> <sub>56</sub>	11	9.1	174°49	17°8/31.2	17	<b>21036</b>	Nakamura-yoshi	11	9.2	292°78	5°1/13.0	18
10 8	3 33.11	-24 40.1	1.425	2.212	20.0	19.4	10 8	3 22.10	+33 15.7	2.163	2.966	13.5	17.8
10 18	3 24.59	-26 17.8	1.398	2.216	18.6	19.3	10 18	3 16.58	+33 25.2	2.070	2.950	10.8	17.6
10 28	3 13.30	-27 19.5	1.388	2.219	17.9	19.3	10 28	3 8.90	+33 17.0	2.001	2.935	8.0	17.4
11 7	3 0.55	-27 35.1	1.398	2.221	18.0	19.3	11 7	2 59.85	+32 49.7	1.957	2.920	5.6	17.2
11 17	2 47.94	-27 0.5	1.427	2.222	19.0	19.4	11 17	2 50.45	+32 4.3	1.940	2.904	5.3	17.2
11 27	2 37.01	-25 38.2	1.475	2.222	20.5	19.5	11 27	2 41.86	+31 5.2	1.952	2.889	7.5	17.3
12 7	2 28.84	-23 36.9	1.539	2.221	22.2	19.6	12 7	2 35.05	+29 59.2	1.991	2.874	10.5	17.5
12 17	2 23.95	-21 6.8	1.617	2.219	23.7	19.8	12 17	2 30.68	+28 53.2	2.054	2.859	13.4	17.6
<b>113737</b>	2002 <i>TT</i> <sub>156</sub>	11	9.2	146°60	4°2/12.4	18	<b>324834</b>	2007 <i>JN</i> <sub>9</sub>	11	9.2	124°36	2°5/ 6.6	18
10 8	3 24.45	+30 58.9	2.040	2.852	13.9	20.5	10 8	3 18.76	+ 9 39.1	2.855	3.711	9.1	21.5
10 18	3 18.10	+30 57.7	1.968	2.857	10.8	20.3	10 18	3 13.28	+ 8 43.5	2.801	3.727	6.5	21.4
10 28	3 9.63	+30 38.8	1.918	2.862	7.6	20.1	10 28	3 6.65	+ 7 46.9	2.774	3.743	3.9	21.2
11 7	2 59.92	+30 2.1	1.895	2.867	4.8	20.0	11 7	2 59.41	+ 6 53.0	2.778	3.759	2.5	21.2
11 17	2 50.08	+29 9.9	1.901	2.871	4.7	20.0	11 17	2 52.19	+ 6 5.2	2.812	3.773	4.1	21.3
11 27	2 41.26	+28 7.6	1.935	2.875	7.3	20.2	11 27	2 45.60	+ 5 26.8	2.877	3.788	6.6	21.5
12 7	2 34.37	+27 2.3	1.996	2.879	10.5	20.4	12 7	2 40.17	+ 4 59.6	2.969	3.802	9.0	21.7
12 17	2 29.99	+26 0.6	2.081	2.882	13.4	20.6	12 17	2 36.24	+ 4 44.7	3.084	3.815	11.0	21.8
<b>173194</b>	1998 <i>QN</i> <sub>15</sub>	11	9.2	13°26	2°2/ 7.8	18	<b>430119</b>	2013 <i>TK</i> <sub>14</sub>	11	9.2	18°32	4°5/ 6.9	18
10 8	3 16.04	+16 36.7	1.081	1.978	17.4	18.5	10 8	3 21.42	+10 36.6	1.092	1.985	17.4	20.4
10 18	3 12.81	+15 22.0	1.037	1.984	12.4	18.2	10 18	3 16.72	+ 9 34.7	1.045	1.989	12.6	20.1
10 28	3 6.87	+13 55.2	1.014	1.993	6.9	17.9	10 28	3 9.13	+ 8 29.5	1.018	1.994	7.5	19.9
11 7	2 59.43	+12 25.2	1.014	2.003	2.3	17.7	11 7	2 59.89	+ 7 29.3	1.015	2.000	4.5	19.7
11 17	2 51.97	+11 2.3	1.038	2.015	5.9	18.0	11 17	2 50.57	+ 6 42.6	1.036	2.006	7.6	19.9
11 27	2 45.97	+ 9 56.2	1.086	2.029	11.2	18.3	11 27	2 42.76	+ 6 16.5	1.081	2.014	12.5	20.2
12 7	2 42.44	+ 9 13.0	1.155	2.045	15.8	18.6	12 7	2 37.62	+ 6 13.7	1.146	2.022	17.0	20.5
12 17	2 41.91	+ 8 54.1	1.243	2.061	19.6	18.9	12 17	2 35.71	+ 6 33.6	1.229	2.031	20.8	20.8
<b>38012</b>	1998 <i>KE</i> <sub>54</sub>	11	9.2	94°60	8°6/ 3.2	18	<b>350023</b>	2010 <i>JW</i> <sub>82</sub>	11	9.2	237°95	6°8/ 4.6	18
10 8	3 22.43	- 4 37.5	1.795	2.652	13.5	18.7	10 8	3 22.15	+ 0 5.0	1.876	2.739	12.7	20.4
10 18	3 16.35	- 6 3.8	1.762	2.669	10.9	18.5	10 18	3 16.36	- 0 58.1	1.813	2.732	9.9	20.2
10 28	3 8.48	- 7 17.4	1.753	2.686	9.0	18.5	10 28	3 8.65	- 1 54.7	1.774	2.725	7.5	20.1
11 7	2 59.70	- 8 11.0	1.770	2.703	8.8	18.5	11 7	2 59.80	- 2 38.4	1.762	2.718	6.8	20.0
11 17	2 51.01	- 8 39.9	1.813	2.719	10.2	18.6	11 17	2 50.79	- 3 4.0	1.777	2.710	8.5	20.1
11 27	2 43.40	- 8 42.1	1.881	2.735	12.5	18.8	11 27	2 42.64	- 3 8.1	1.818	2.702	11.4	20.3
12 7	2 37.60	- 8 19.2	1.971	2.751	14.9	19.0	12 7	2 36.20	- 2 50.4	1.883	2.694	14.3	20.4
12 17	2 34.04	- 7 34.8	2.079	2.766	16.9	19.2	12 17	2 32.01	- 2 12.7	1.968	2.686	16.8	20.6
<b>127326</b>	2002 <i>JL</i> <sub>102</sub>	11	9.2	84°99	0°8/ 8.5	18	<b>133467</b>	2003 <i>SL</i> <sub>241</sub>	11	9.2	224°		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>2867</b>	Steins	11 9.2	82°87'	1°1/8.7	18		<b>13791</b>	1998 VC	11 9.2	196°17'	0°6/9.5	18	
10 8	3 29.01	+13 57.7	1.457	2.322	15.6	16.2	10 8	3 25.24	+20 19.0	1.896	2.743	13.3	18.5
10 18	3 21.62	+14 4.5	1.407	2.338	11.2	16.0	10 18	3 18.72	+19 56.1	1.820	2.741	9.8	18.2
10 28	3 11.68	+14 7.0	1.381	2.354	6.3	15.7	10 28	3 10.05	+19 22.3	1.769	2.738	5.6	18.0
11 7	3 0.34	+14 7.2	1.381	2.371	1.4	15.5	11 7	3 0.10	+18 39.9	1.745	2.735	1.3	17.7
11 17	2 48.99	+14 7.9	1.409	2.387	4.5	15.7	11 17	2 49.93	+17 52.6	1.751	2.731	3.4	17.8
11 27	2 39.04	+14 12.7	1.464	2.403	9.3	16.0	11 27	2 40.73	+17 6.0	1.786	2.727	7.7	18.1
12 7	2 31.56	+14 24.7	1.544	2.419	13.5	16.3	12 7	2 33.43	+16 25.5	1.848	2.721	11.6	18.3
12 17	2 27.08	+14 45.7	1.645	2.434	16.9	16.6	12 17	2 28.62	+15 55.4	1.932	2.716	14.9	18.5
<b>514972</b>	2009 CT <sub>46</sub>	11 9.2	208°14'	0°2/9.1	18		<b>364694</b>	2007 UX <sub>34</sub>	11 9.2	61°53'	6°5/6.0	17	
10 8	3 23.39	+17 41.9	2.122	2.973	12.0	22.4	10 8	3 26.61	+ 6 40.5	1.086	1.973	18.0	20.2
10 18	3 17.19	+17 24.9	2.045	2.968	8.7	22.2	10 18	3 19.98	+ 5 14.8	1.062	2.001	13.1	20.0
10 28	3 9.11	+17 0.6	1.992	2.964	4.9	22.0	10 28	3 10.68	+ 3 53.9	1.059	2.029	8.5	19.8
11 7	2 59.89	+16 31.1	1.968	2.959	0.9	21.7	11 7	3 0.16	+ 2 47.6	1.081	2.057	6.6	19.8
11 17	2 50.47	+15 59.4	1.974	2.953	3.3	21.9	11 17	2 50.01	+ 2 3.8	1.127	2.085	9.1	20.1
11 27	2 41.85	+15 29.8	2.009	2.947	7.2	22.1	11 27	2 41.70	+ 1 46.8	1.196	2.113	13.2	20.4
12 7	2 34.86	+15 6.3	2.071	2.941	10.8	22.3	12 7	2 36.18	+ 1 56.0	1.287	2.141	17.0	20.7
12 17	2 30.08	+14 51.9	2.157	2.934	13.8	22.5	12 17	2 33.79	+ 2 28.0	1.396	2.168	20.2	21.0
<b>28418</b>	Pornwasu	11 9.2	272°60'	0°1/9.2	18		<b>28489</b>	2000 CN <sub>58</sub>	11 9.2	239°01'	7°9/1.1	18	
10 8	3 24.78	+18 38.9	1.517	2.380	15.2	20.0	10 8	3 17.68	- 7 41.8	2.458	3.302	10.8	17.9
10 18	3 18.97	+18 19.2	1.435	2.365	11.2	19.7	10 18	3 12.79	- 9 11.7	2.406	3.298	9.0	17.8
10 28	3 10.46	+17 48.2	1.376	2.349	6.4	19.4	10 28	3 6.51	-10 31.4	2.380	3.293	8.0	17.7
11 7	3 0.17	+17 8.4	1.342	2.332	1.2	19.0	11 7	2 59.44	-11 34.8	2.381	3.289	8.1	17.7
11 17	2 49.41	+16 24.1	1.336	2.316	4.2	19.2	11 17	2 52.28	-12 17.4	2.408	3.284	9.3	17.8
11 27	2 39.66	+15 41.9	1.357	2.299	9.5	19.5	11 27	2 45.76	-12 36.8	2.460	3.280	11.1	17.9
12 7	2 32.16	+15 8.4	1.402	2.283	14.2	19.7	12 7	2 40.50	-12 33.1	2.535	3.275	13.0	18.1
12 17	2 27.68	+14 48.2	1.467	2.266	18.2	19.9	12 17	2 36.92	-12 8.4	2.628	3.270	14.6	18.2
<b>231060</b>	2005 NM <sub>46</sub>	11 9.2	103°60'	1°4/8.4	16		<b>353839</b>	2012 VV <sub>16</sub>	11 9.2	192°41'	2°9/11.4	18	
10 8	3 26.49	+15 17.5	1.604	2.466	14.6	21.8	10 8	3 23.67	+28 9.1	1.891	2.719	14.1	20.6
10 18	3 19.57	+14 43.8	1.555	2.485	10.4	21.6	10 18	3 17.65	+27 37.7	1.814	2.719	10.8	20.3
10 28	3 10.42	+14 3.6	1.529	2.503	5.8	21.4	10 28	3 9.45	+26 48.1	1.761	2.718	7.0	20.1
11 7	3 0.10	+13 20.8	1.531	2.521	1.5	21.1	11 7	2 59.98	+25 41.6	1.734	2.716	3.5	19.9
11 17	2 49.85	+12 40.4	1.561	2.538	4.4	21.4	11 17	2 50.38	+24 22.6	1.737	2.715	3.9	19.9
11 27	2 40.89	+12 7.8	1.620	2.555	8.9	21.7	11 27	2 41.82	+22 58.1	1.768	2.713	7.5	20.1
12 7	2 34.12	+11 47.0	1.703	2.571	12.8	22.0	12 7	2 35.24	+21 36.2	1.826	2.711	11.2	20.4
12 17	2 30.03	+11 40.1	1.808	2.587	16.0	22.2	12 17	2 31.21	+20 23.8	1.908	2.708	14.5	20.6
<b>35898</b>	1999 JC <sub>86</sub>	11 9.2	292°10'	3°8/7.5	18		<b>297002</b>	2010 FB <sub>30</sub>	11 9.2	67°41'	5°0/5.5	18	
10 8	3 25.77	+ 9 35.4	1.307	2.186	16.2	19.0	10 8	3 20.55	+ 7 56.8	1.671	2.546	13.4	20.7
10 18	3 19.75	+ 9 7.9	1.243	2.180	11.8	18.7	10 18	3 15.32	+ 6 25.1	1.615	2.550	9.8	20.5
10 28	3 10.88	+ 8 39.3	1.200	2.174	7.1	18.4	10 28	3 8.08	+ 4 52.3	1.585	2.553	6.4	20.3
11 7	3 0.24	+ 8 14.8	1.183	2.168	3.9	18.2	11 7	2 59.74	+ 3 26.0	1.581	2.556	5.0	20.3
11 17	2 49.27	+ 7 59.9	1.191	2.162	6.7	18.4	11 17	2 51.33	+ 2 14.0	1.605	2.560	7.3	20.4
11 27	2 39.55	+ 7 59.4	1.225	2.156	11.5	18.6	11 27	2 43.94	+ 1 22.2	1.656	2.563	10.8	20.6
12 7	2 32.33	+ 8 15.8	1.281	2.150	16.1	18.9	12 7	2 38.42	+ 0 53.3	1.730	2.566	14.2	20.8
12 17	2 28.32	+ 8 49.1	1.357	2.145	19.9	19.1	12 17	2 35.27	+ 0 47.1	1.824	2.570	17.0	21.1
<b>495655</b>	2016 AG <sub>72</sub>	11 9.2	277°39'	4°5/5.6	17		<b>138488</b>	2000 KY <sub>16</sub>	11 9.2	165°68'	1°2/10.2	18	
10 8	3 19.44	+ 3 50.3	2.377	3.238	10.5	22.1	10 8	3 21.91	+23 34.0	2.271	3.107	11.8	20.2
10 18	3 14.18	+ 3 8.4	2.297	3.221	7.9	21.9	10 18	3 15.99	+22 55.4	2.197	3.111	8.7	20.0
10 28	3 7.36	+ 2 29.1	2.243	3.204	5.4	21.7	10 28	3 8.36	+22 4.6	2.149	3.114	5.2	19.8
11 7	2 59.59	+ 1 56.7	2.218	3.187	4.5	21.6	11 7	2 59.79	+21 3.9	2.129	3.117	1.7	19.5
11 17	2 51.61	+ 1 34.8	2.221	3.169	6.0	21.7	11 17	2 51.14	+19 57.5	2.140	3.120	2.9	19.6
11 27	2 44.22	+ 1 26.7	2.253	3.152	8.7	21.9	11 27	2 43.33	+18 50.6	2.180	3.122	6.5	19.9
12 7	2 38.14	+ 1 33.6	2.310	3.134	11.5	22.0	12 7	2 37.10	+17 48.8	2.248	3.123	9.8	20.1
12 17	2 33.86	+ 1 55.3	2.389	3.117	13.9	22.2	12 17	2 32.93	+16 56.4	2.341	3.125	12.6	20.3
<b>484408</b>	2007 XU <sub>51</sub>	11 9.2	326°14'	1°6/9.9	17		<b>171699</b>	2000 SD <sub>169</sub>	11 9.2	19°63'	3°8/11.3	18	
10 8	3 21.92	+21 6.6	1.513	2.376	15.3	21.8	10 8	3 22.77	+27 26.1	1.104	1.969	19.5	19.3
10 18	3 16.96	+21 13.7	1.432	2.360	11.4	21.5	10 18	3 18.04	+27 6.1	1.049	1.973	14.9	19.0
10 28	3 9.34	+21 9.3	1.375	2.345	6.8	21.3	10 28	3 10.04	+26 20.8	1.012	1.977	9.6	18.7
11 7	2 59.99	+20 53.9	1.342	2.330	2.3	20.9	11 7	3 0.13	+25 11.8	0.998	1.983	4.6	18.5
11 17	2 50.15	+20 30.2	1.335	2.316	4.0	21.0	11 17	2 50.06	+23 46.1	1.008	1.989	5.2	18.5
11 27	2 41.29	+20 3.3	1.355	2.303	8.9	21.3	11 27	2 41.67	+22 15.3	1.043	1.996	10.2	18.8
12 7	2 34.63	+19 39.4	1.399	2.291	13.5	21.5	12 7	2 36.27	+20 51.6	1.100	2.003	15.2	19.2
12 17	2 30.95	+19 23.8	1.464	2.279	17.4	21.7	12 17	2 34.47	+19 43.9	1.176	2.012	19.5	19.5
<b>398010</b>	2009 CS <sub>13</sub>	11 9.2	198°25'	6°8/3.9	18		<b>448782</b>	2011 ST <sub>131</sub>	11 9.2	321°91'	1°1/9.7	18	
10 8	3 22.37	- 3 46.4	2.328	3.175	11.2	21.6	10 8	3 25.13	+19 20.4	1.794	2.647	13.7	20.5
10 18	3 16.18	- 4 41.3	2.267	3.172	8.9	21.5	10 18	3 18.82	+19 37.5	1.721	2.644	10.1	20.2
10 28	3 8.43	- 5 27.6	2.232	3.168	7.2	21.4	10 28	3 10.20	+19 46.7	1.673	2.642	5.9	20.0
11 7	2 59.77	- 6 0.3	2.225	3.164	6.9	21.3	11 7	3 0.17	+19 48.3	1.651	2.640	1.7	19.7
11 17	2 51.02	- 6 15.4	2.246	3.159	8.2	21.4	11 17	2 49.83	+19 44.0	1.657	2.638	3.5	19.8
11 27	2 43.00	- 6 10.9	2.294	3.154	10.3	21.6	11 27	2 40.45	+19 37.4	1.693	2.636	7.9	20.1
12 7	2 36.40	- 5 47.0	2.366	3.148	12.6	21.7	12 7	2 33.04	+19 32.6	1.754	2.634	11.8	20.3
12 17	2 31.70	- 5 5.6	2.458	3.141	14.7	21.9	12 17	2 28.26	+19 33.3	1.837	2.632	15.2	20.6
<b>260730</b>	2005 LN <sub>11</sub>	11 9.2	139°97'	1°6/10.2	18		<b>306777</b>	2001 DU <sub>90</sub>	11 9.2	172°29'	3°2/11.3	18	
10 8	3 26.11	+23 17.7	1.682	2.528	14.8	21.5	10						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>326075</b>	2011 AV <sub>72</sub>		11 9.2 262°54	1.0°/ 8.4	17		<b>321040</b>	2008 QW <sub>21</sub>		11 9.2 80°99	5.4°/ 4.0	18	
10 8	3 19.99	+15 19.5	2.342	3.198	10.8	21.5	10 8	3 18.27	+ 2 46.6	2.267	3.132	10.8	20.5
10 18	3 14.65	+14 52.2	2.259	3.187	7.8	21.2	10 18	3 13.21	+ 1 14.3	2.221	3.144	8.1	20.4
10 28	3 7.67	+14 19.4	2.202	3.175	4.4	21.0	10 28	3 6.75	- 0 14.1	2.203	3.157	6.0	20.3
11 7	2 59.70	+13 43.9	2.174	3.164	1.1	20.8	11 7	2 59.55	- 1 32.5	2.212	3.170	5.5	20.3
11 17	2 51.52	+13 9.0	2.175	3.152	3.4	20.9	11 17	2 52.36	- 2 35.5	2.251	3.182	7.1	20.4
11 27	2 44.00	+12 38.5	2.206	3.140	6.9	21.1	11 27	2 45.94	- 3 19.5	2.317	3.195	9.5	20.6
12 7	2 37.85	+12 15.8	2.264	3.128	10.2	21.3	12 7	2 40.89	- 3 43.4	2.407	3.207	11.9	20.8
12 17	2 33.61	+12 3.2	2.345	3.115	13.0	21.5	12 17	2 37.61	- 3 47.8	2.518	3.220	13.9	20.9
<b>80464</b>	2000 AU <sub>19</sub>		11 9.2 269°96	3°1/ 7.7	18		<b>16277</b>	Mallada		11 9.2 343°31	4°0/ 6.9	18	
10 8	3 25.70	+10 26.8	1.533	2.403	14.7	19.5	10 8	3 22.25	+ 7 26.0	1.693	2.565	13.4	17.5
10 18	3 19.53	+10 5.4	1.456	2.390	10.7	19.2	10 18	3 16.67	+ 6 58.8	1.629	2.562	9.8	17.2
10 28	3 10.75	+ 9 42.1	1.403	2.376	6.3	18.9	10 28	3 8.96	+ 6 33.0	1.589	2.558	6.1	17.0
11 7	3 0.29	+ 9 21.0	1.376	2.362	3.1	18.7	11 7	2 59.98	+ 6 13.0	1.575	2.556	4.0	16.9
11 17	2 49.42	+ 9 6.5	1.376	2.348	5.8	18.8	11 17	2 50.82	+ 6 3.1	1.588	2.553	6.1	17.0
11 27	2 39.54	+ 9 3.2	1.403	2.334	10.4	19.0	11 27	2 42.61	+ 6 6.6	1.629	2.551	9.9	17.2
12 7	2 31.83	+ 9 13.9	1.454	2.319	14.7	19.3	12 7	2 36.29	+ 6 24.9	1.694	2.549	13.5	17.5
12 17	2 27.02	+ 9 39.7	1.525	2.305	18.4	19.5	12 17	2 32.44	+ 6 57.9	1.779	2.548	16.6	17.7
<b>432951</b>	2012 HV <sub>17</sub>		11 9.2 195°26	3°3/ 7.5	16		<b>233643</b>	2008 MB <sub>1</sub>		11 9.2 71°72	7°7/ 3.8	18	
10 8	3 26.76	+ 9 45.2	1.601	2.468	14.4	21.6	10 8	3 20.83	- 6 12.6	2.144	2.993	12.0	19.5
10 18	3 20.02	+ 9 16.9	1.536	2.467	10.4	21.4	10 18	3 15.09	- 7 6.0	2.106	3.006	9.7	19.3
10 28	3 10.88	+ 8 47.3	1.494	2.465	6.2	21.1	10 28	3 7.82	- 7 47.3	2.092	3.020	8.1	19.3
11 7	3 0.30	+ 8 20.9	1.478	2.463	3.4	20.9	11 7	2 59.76	- 8 11.6	2.104	3.033	7.8	19.3
11 17	2 49.50	+ 8 2.2	1.491	2.460	5.8	21.1	11 17	2 51.73	- 8 15.5	2.143	3.047	9.0	19.4
11 27	2 39.80	+ 7 55.4	1.531	2.457	10.1	21.3	11 27	2 44.57	- 7 58.0	2.208	3.061	11.0	19.5
12 7	2 32.24	+ 8 3.0	1.596	2.454	14.1	21.6	12 7	2 38.93	- 7 20.4	2.296	3.074	13.0	19.7
12 17	2 27.45	+ 8 25.6	1.681	2.450	17.4	21.8	12 17	2 35.22	- 6 25.5	2.403	3.088	14.9	19.9
<b>77814</b>	2001 QY <sub>146</sub>		11 9.2 358°76	2°1/ 7.9	18		<b>138505</b>	2000 KY <sub>63</sub>		11 9.2 252°63	4°9/ 5.1	18	
10 8	3 22.90	+ 9 31.2	2.262	3.120	11.1	18.1	10 8	3 20.13	+ 6 3.4	2.044	2.912	11.7	19.8
10 18	3 16.70	+ 9 38.2	2.192	3.119	8.0	17.9	10 18	3 14.88	+ 4 42.8	1.971	2.900	8.7	19.6
10 28	3 8.81	+ 9 45.8	2.148	3.119	4.7	17.7	10 28	3 7.86	+ 3 21.8	1.924	2.888	5.9	19.4
11 7	2 59.92	+ 9 55.8	2.132	3.119	2.2	17.6	11 7	2 59.79	+ 2 6.6	1.905	2.876	4.9	19.3
11 17	2 50.86	+10 10.0	2.147	3.119	4.1	17.7	11 17	2 51.53	+ 1 3.4	1.915	2.863	6.9	19.4
11 27	2 42.53	+10 30.2	2.191	3.119	7.4	17.9	11 27	2 44.02	+ 0 17.5	1.952	2.851	9.9	19.6
12 7	2 35.68	+10 57.4	2.262	3.119	10.5	18.1	12 7	2 38.03	- 0 8.5	2.014	2.838	13.0	19.7
12 17	2 30.82	+11 32.3	2.357	3.120	13.2	18.3	12 17	2 34.10	- 0 14.4	2.097	2.825	15.6	19.9
<b>233418</b>	2006 GO <sub>50</sub>		11 9.2 167°39	2°7/11.3	18		<b>229263</b>	2005 AN <sub>21</sub>		11 9.2 309°93	2°1/ 7.8	17	
10 8	3 25.67	+26 57.8	2.414	3.230	11.9	21.7	10 8	3 20.20	+11 30.2	2.117	2.981	11.5	20.2
10 18	3 18.71	+26 58.2	2.338	3.236	9.0	21.5	10 18	3 14.94	+11 8.8	2.040	2.971	8.3	20.0
10 28	3 9.94	+26 46.1	2.288	3.241	5.9	21.3	10 28	3 7.91	+10 45.2	1.989	2.962	4.8	19.8
11 7	3 0.12	+26 21.5	2.265	3.245	3.2	21.1	11 7	2 59.81	+10 22.4	1.965	2.952	2.2	19.6
11 17	2 50.17	+25 46.5	2.273	3.248	3.5	21.2	11 17	2 51.49	+10 3.7	1.971	2.943	4.3	19.7
11 27	2 41.04	+25 5.0	2.312	3.251	6.3	21.4	11 27	2 43.88	+ 9 52.6	2.005	2.934	7.8	19.9
12 7	2 33.55	+24 22.0	2.378	3.253	9.3	21.6	12 7	2 37.78	+ 9 51.4	2.065	2.925	11.2	20.1
12 17	2 28.21	+23 42.3	2.470	3.255	12.0	21.8	12 17	2 33.72	+10 1.7	2.147	2.917	14.1	20.3
<b>299135</b>	2005 ES <sub>237</sub>		11 9.2 322°38	2°6/10.6	18		<b>216786</b>	2006 RQ <sub>56</sub>		11 9.2 85°06	2°0/ 8.1	18	
10 8	3 24.55	+23 27.7	1.672	2.520	14.8	20.5	10 8	3 24.43	+15 12.5	1.388	2.261	15.7	20.1
10 18	3 18.63	+23 43.9	1.597	2.515	11.1	20.3	10 18	3 18.52	+14 22.5	1.332	2.268	11.3	19.9
10 28	3 10.21	+23 47.5	1.546	2.510	7.0	20.1	10 28	3 10.07	+13 24.2	1.300	2.275	6.3	19.6
11 7	3 0.21	+23 38.4	1.521	2.506	3.1	19.8	11 7	3 0.19	+12 23.1	1.293	2.282	2.0	19.4
11 17	2 49.87	+23 18.4	1.523	2.502	4.0	19.9	11 17	2 50.25	+11 26.1	1.313	2.289	5.2	19.6
11 27	2 40.55	+22 52.2	1.553	2.498	8.2	20.1	11 27	2 41.63	+10 40.2	1.360	2.296	10.1	19.9
12 7	2 33.37	+22 25.7	1.607	2.494	12.3	20.4	12 7	2 35.38	+10 10.6	1.430	2.303	14.4	20.2
12 17	2 29.03	+22 4.4	1.684	2.491	15.8	20.6	12 17	2 32.06	+ 9 59.2	1.520	2.310	18.0	20.5
<b>53080</b>	1998 XC <sub>83</sub>		11 9.2 32°45	1°7/10.2	18		<b>81228</b>	2000 FG <sub>25</sub>		11 9.2 168°22	1°0/ 8.5	18	
10 8	3 22.40	+23 41.9	1.230	2.098	17.7	18.0	10 8	3 25.45	+15 42.2	1.858	2.714	13.2	20.0
10 18	3 17.37	+23 6.1	1.177	2.107	13.1	17.7	10 18	3 18.83	+15 14.9	1.791	2.718	9.5	19.8
10 28	3 9.51	+22 11.1	1.146	2.116	7.8	17.5	10 28	3 10.12	+14 41.0	1.749	2.722	5.3	19.5
11 7	3 0.07	+21 0.8	1.138	2.126	2.5	17.2	11 7	3 0.21	+14 3.5	1.735	2.724	1.3	19.3
11 17	2 50.59	+19 42.5	1.156	2.137	4.3	17.3	11 17	2 50.17	+13 26.6	1.750	2.727	4.0	19.5
11 27	2 42.62	+18 25.9	1.199	2.149	9.5	17.7	11 27	2 41.12	+12 55.1	1.793	2.728	8.2	19.7
12 7	2 37.30	+17 20.4	1.265	2.161	14.3	18.0	12 7	2 33.97	+12 33.0	1.863	2.729	11.9	20.0
12 17	2 35.15	+16 31.7	1.352	2.174	18.2	18.3	12 17	2 29.27	+12 23.1	1.956	2.730	15.1	20.2
<b>258601</b>	2002 CD <sub>235</sub>		11 9.2 11°98	0°2/ 9.1	17		<b>104528</b>	2000 GE <sub>52</sub>		11 9.2 201°16	0°1/ 9.1	18	
10 8	3 24.00	+17 56.4	1.073	1.958	18.5	20.8	10 8	3 25.66	+17 57.2	1.881	2.733	13.2	20.1
10 18	3 18.91	+17 42.9	1.019	1.959	13.4	20.5	10 18	3 19.08	+17 39.9	1.806	2.730	9.6	19.9
10 28	3 10.58	+17 17.4	0.985	1.961	7.6	20.2	10 28	3 10.33	+17 14.1	1.755	2.726	5.5	19.6
11 7	3 0.29	+16 43.4	0.973	1.964	1.4	19.8	11 7	3 0.26	+16 42.2	1.732	2.722	1.0	19.3
11 17	2 49.77	+16 6.6	0.986	1.967	5.0	20.1	11 17	2 49.96	+16 7.6	1.738	2.717	3.6	19.5
11 27	2 40.83	+15 34.8	1.023	1.972	10.9	20.4	11 27	2 40.60	+15 35.1	1.773	2.712	7.9	19.8
12 7	2 34.82	+15 14.7	1.081	1.977	16.1	20.7	12 7	2 33.12	+15 9.5	1.835	2.706	11.8	20.0
12 17	2 32.41	+15 10.2	1.158	1.982	20.4	21.0	12 17	2 28.14	+14 54.1	1.919	2.700	15.1	20.2
<b>324719</b>	2007 EW <sub>139</sub>		11 9.2 299°17	5°8/12.7	17		<b>440801</b>	2006 PZ <sub>18</sub>		11 9.2 104°92	4°7/12.8	18	
10 8	3 24.67	+32 34.7	1.994	2.801</									

EPHEMERIDES

11 9.2

11 9.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>177510</b>	2004 <i>EP</i> <sub>64</sub>		11 9.2 298°89	8°9/ 3.3	18	R	<b>404896</b>	2014 <i>KZ</i> <sub>78</sub>		11 9.2 234°42	0°1/ 9.3	18	
10 8	3 21.29	- 4 46.5	1.757	2.617	13.6	19.9	10 8	3 24.54	+17 33.9	1.926	2.779	12.9	21.4
10 18	3 15.97	- 5 55.6	1.693	2.602	11.1	19.7	10 18	3 18.28	+17 32.8	1.850	2.774	9.4	21.2
10 28	3 8.59	- 6 53.7	1.652	2.588	9.2	19.6	10 28	3 9.91	+17 24.8	1.798	2.769	5.4	20.9
11 7	2 59.95	- 7 33.3	1.636	2.573	9.0	19.5	11 7	3 0.23	+17 11.3	1.773	2.764	1.0	20.6
11 17	2 51.08	- 7 48.5	1.646	2.559	10.6	19.6	11 17	2 50.27	+16 54.9	1.778	2.758	3.4	20.8
11 27	2 43.06	- 7 36.4	1.680	2.545	13.2	19.7	11 27	2 41.18	+16 39.4	1.812	2.752	7.7	21.0
12 7	2 36.82	- 6 58.0	1.736	2.531	16.0	19.9	12 7	2 33.90	+16 28.8	1.872	2.746	11.5	21.3
12 17	2 32.95	- 5 56.5	1.811	2.518	18.4	20.0	12 17	2 29.04	+16 26.2	1.954	2.740	14.7	21.5
<b>481810</b>	2008 <i>UB</i> <sub>49</sub>		11 9.2 343°50	1°3/ 9.8	16		<b>29950</b>	Uppili		11 9.2 316°11	2°7/ 7.8	18	
10 8	3 23.40	+19 53.5	1.363	2.232	16.3	20.9	10 8	3 22.11	+12 39.0	1.367	2.248	15.5	18.3
10 18	3 18.18	+20 5.6	1.294	2.225	12.0	20.6	10 18	3 17.20	+12 7.0	1.293	2.232	11.3	18.0
10 28	3 10.13	+20 6.8	1.247	2.219	7.1	20.3	10 28	3 9.58	+11 29.4	1.240	2.216	6.5	17.7
11 7	3 0.26	+19 57.9	1.224	2.213	2.0	20.0	11 7	3 0.20	+10 51.2	1.212	2.200	2.7	17.4
11 17	2 49.99	+19 41.8	1.227	2.208	4.2	20.1	11 17	2 50.36	+10 18.1	1.211	2.186	5.8	17.6
11 27	2 40.89	+19 23.6	1.256	2.204	9.4	20.4	11 27	2 41.57	+ 9 56.4	1.234	2.171	10.8	17.8
12 7	2 34.24	+19 9.2	1.308	2.200	14.1	20.7	12 7	2 35.06	+ 9 50.4	1.281	2.158	15.5	18.1
12 17	2 30.77	+19 3.5	1.380	2.198	18.1	20.9	12 17	2 31.60	+10 2.1	1.346	2.145	19.5	18.3
<b>189376</b>	2008 <i>FS</i> <sub>78</sub>		11 9.2 241°87	0°6/ 9.6	18		<b>178792</b>	2001 <i>DH</i> <sub>14</sub>		11 9.2 191°11	11°1/ 18.2	18	
10 8	3 21.84	+20 8.1	2.035	2.885	12.4	20.7	10 8	3 37.19	+50 33.4	2.157	2.839	17.0	21.2
10 18	3 16.20	+19 52.6	1.961	2.884	9.1	20.5	10 18	3 28.34	+51 32.1	2.075	2.838	15.2	21.1
10 28	3 8.64	+19 27.7	1.913	2.883	5.3	20.2	10 28	3 16.00	+52 3.4	2.011	2.835	13.3	21.0
11 7	2 59.96	+18 55.3	1.892	2.881	1.3	20.0	11 7	3 1.38	+52 0.7	1.969	2.833	11.8	20.9
11 17	2 51.09	+18 17.7	1.899	2.880	3.1	20.1	11 17	2 46.24	+51 21.2	1.951	2.829	11.1	20.8
11 27	2 43.08	+17 42.4	1.936	2.878	7.1	20.4	11 27	2 32.59	+50 8.2	1.958	2.824	11.6	20.8
12 7	2 36.74	+17 11.0	1.999	2.877	10.7	20.6	12 7	2 21.95	+48 31.0	1.990	2.818	12.9	20.9
12 17	2 32.63	+16 48.2	2.086	2.875	13.8	20.8	12 17	2 15.14	+46 41.3	2.045	2.812	14.8	21.0
<b>399618</b>	2004 <i>DU</i> <sub>76</sub>		11 9.2 281°56	1°2/ 9.9	17		<b>59956</b>	1999 <i>RR</i> <sub>230</sub>		11 9.2 73°67	0°6/ 8.9	18	
10 8	3 22.67	+21 34.1	1.898	2.747	13.2	21.4	10 8	3 23.86	+15 6.3	2.032	2.888	12.2	18.2
10 18	3 17.11	+21 21.0	1.808	2.728	9.8	21.1	10 18	3 17.52	+15 9.3	1.972	2.898	8.8	18.0
10 28	3 9.33	+20 56.4	1.741	2.709	5.9	20.8	10 28	3 9.34	+15 8.0	1.937	2.909	4.9	17.8
11 7	3 0.11	+20 21.5	1.701	2.690	1.8	20.5	11 7	3 0.11	+15 4.1	1.930	2.920	1.0	17.5
11 17	2 50.49	+19 39.4	1.690	2.671	3.4	20.6	11 17	2 50.78	+14 59.8	1.952	2.931	3.4	17.7
11 27	2 41.65	+18 55.3	1.707	2.651	7.8	20.8	11 27	2 42.36	+14 58.1	2.004	2.941	7.3	18.0
12 7	2 34.61	+18 15.0	1.751	2.631	11.8	21.0	12 7	2 35.65	+15 1.6	2.082	2.952	10.7	18.2
12 17	2 30.06	+17 43.4	1.817	2.612	15.3	21.2	12 17	2 31.16	+15 12.4	2.183	2.963	13.6	18.4
<b>521243</b>	2015 <i>HY</i> <sub>189</sub>		11 9.2 171°24	0°4/ 9.5	18		<b>59035</b>	1998 <i>SF</i> <sub>134</sub>		11 9.2 32°67	1°1/ 9.7	18	
10 8	3 25.74	+19 37.8	1.859	2.708	13.5	22.6	10 8	3 24.91	+19 49.4	1.133	2.010	18.2	18.4
10 18	3 19.10	+19 18.7	1.789	2.711	9.8	22.4	10 18	3 19.35	+19 53.9	1.087	2.022	13.3	18.2
10 28	3 10.31	+18 49.5	1.744	2.714	5.7	22.1	10 28	3 10.73	+19 45.4	1.061	2.035	7.7	17.9
11 7	3 0.26	+18 12.6	1.726	2.716	1.2	21.8	11 7	3 0.38	+19 26.0	1.059	2.048	2.0	17.6
11 17	2 50.06	+17 31.5	1.738	2.718	3.5	22.0	11 17	2 49.97	+19 0.0	1.081	2.063	4.5	17.8
11 27	2 40.87	+16 51.5	1.778	2.719	7.8	22.3	11 27	2 41.20	+18 34.2	1.128	2.078	10.0	18.2
12 7	2 33.62	+16 17.9	1.845	2.719	11.6	22.5	12 7	2 35.30	+18 15.1	1.198	2.094	14.8	18.5
12 17	2 28.88	+15 54.3	1.935	2.719	14.9	22.7	12 17	2 32.82	+18 7.3	1.287	2.111	18.8	18.8
<b>446149</b>	2013 <i>ED</i> <sub>99</sub>		11 9.2 182°73	0°6/ 9.6	18		<b>394129</b>	2006 <i>HJ</i> <sub>48</sub>		11 9.2 310°50	3°5/ 6.6	18	
10 8	3 22.67	+19 43.3	2.038	2.888	12.4	21.6	10 8	3 20.15	+12 44.8	1.568	2.445	14.1	20.6
10 18	3 16.79	+19 33.1	1.965	2.888	9.1	21.4	10 18	3 15.34	+11 16.4	1.499	2.437	10.1	20.4
10 28	3 8.97	+19 14.2	1.918	2.888	5.3	21.2	10 28	3 8.30	+ 9 40.1	1.455	2.429	6.0	20.1
11 7	3 0.02	+18 48.1	1.898	2.888	1.2	20.9	11 7	2 59.94	+ 8 3.2	1.437	2.421	3.5	19.9
11 17	2 50.90	+18 18.0	1.907	2.887	3.2	21.0	11 17	2 51.38	+ 6 34.6	1.447	2.414	6.3	20.1
11 27	2 42.62	+17 47.9	1.945	2.887	7.1	21.3	11 27	2 43.83	+ 5 22.4	1.483	2.407	10.5	20.3
12 7	2 36.05	+17 22.4	2.010	2.887	10.7	21.5	12 7	2 38.25	+ 4 32.0	1.543	2.400	14.5	20.6
12 17	2 31.73	+17 4.8	2.098	2.886	13.8	21.7	12 17	2 35.23	+ 4 5.1	1.623	2.393	17.9	20.8
<b>66297</b>	1999 <i>JF</i> <sub>30</sub>		11 9.2 68°77	0°8/ 8.9	17		<b>514522</b>	2016 <i>WJ</i> <sub>51</sub>		11 9.2 22°97	5°5/ 11.8	18	
10 8	3 29.74	+15 24.7	1.235	2.107	17.4	18.7	10 8	3 25.08	+27 55.7	1.242	2.095	18.6	19.4
10 18	3 22.42	+15 25.7	1.194	2.128	12.5	18.5	10 18	3 19.60	+28 41.2	1.190	2.104	14.4	19.2
10 28	3 12.27	+15 19.8	1.175	2.149	7.0	18.2	10 28	3 10.97	+29 6.6	1.158	2.114	9.9	19.0
11 7	3 0.61	+15 9.6	1.181	2.171	1.4	17.9	11 7	3 0.44	+29 9.7	1.149	2.126	6.1	18.8
11 17	2 49.06	+14 58.9	1.213	2.193	4.7	18.2	11 17	2 49.69	+28 51.8	1.165	2.139	6.2	18.9
11 27	2 39.21	+14 52.7	1.271	2.214	10.0	18.6	11 27	2 40.51	+28 19.3	1.205	2.152	9.9	19.1
12 7	2 32.17	+14 55.0	1.353	2.235	14.5	18.9	12 7	2 34.20	+27 41.2	1.269	2.167	14.0	19.4
12 17	2 28.45	+15 8.2	1.455	2.257	18.1	19.2	12 17	2 31.42	+27 5.8	1.353	2.183	17.7	19.7
<b>221545</b>	2006 <i>UF</i> <sub>89</sub>		11 9.2 158°10	0°7/ 9.7	18		<b>66981</b>	1999 <i>XE</i> <sub>89</sub>		11 9.2 36°44	4°4/ 6.5	18	
10 8	3 25.81	+21 32.0	1.757	2.605	14.2	21.0	10 8	3 21.16	+ 4 56.8	1.975	2.842	12.0	18.4
10 18	3 19.20	+20 53.2	1.691	2.612	10.4	20.8	10 18	3 15.56	+ 4 27.6	1.920	2.848	8.9	18.2
10 28	3 10.37	+20 1.3	1.648	2.617	6.0	20.5	10 28	3 8.22	+ 4 2.1	1.889	2.854	5.8	18.0
11 7	3 0.29	+18 59.2	1.633	2.622	1.4	20.3	11 7	2 59.91	+ 3 44.1	1.885	2.860	4.4	17.9
11 17	2 50.12	+17 52.1	1.646	2.627	3.6	20.4	11 17	2 51.53	+ 3 37.2	1.910	2.867	6.1	18.1
11 27	2 41.08	+16 46.9	1.689	2.631	8.0	20.7	11 27	2 44.01	+ 3 43.9	1.962	2.874	9.1	18.3
12 7	2 34.11	+15 50.1	1.758	2.634	12.0	21.0	12 7	2 38.11	+ 4 4.8	2.039	2.881	12.1	18.5
12 17	2 29.76	+15 6.5	1.850	2.636	15.4	21.2	12 17	2 34.32	+ 4 39.2	2.138	2.888	14.7	18.7
<b>73429</b>	2002 <i>LY</i> <sub>47</sub>		11 9.2 31°53	4°4/ 13.5	18		<b>266439</b>	2007 <i>HY</i> <sub>26</sub>		11 9.2 6°51	1°3		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>327131</b>	2005 <i>EO</i> <sub>164</sub>	11	9.2 296°95	0°7/ 8.9	18		<b>177184</b>	2003 <i>SU</i> <sub>290</sub>	11	9.2 30°56	0°9/ 8.7	18	
10 8	3 26.41	+15 46.5	1.304	2.177	16.6	20.4	10 8	3 22.73	+18 24.3	1.145	2.027	17.7	19.8
10 18	3 20.50	+15 46.5	1.231	2.166	12.1	20.1	10 18	3 17.73	+17 33.4	1.094	2.033	12.8	19.5
10 28	3 11.54	+15 39.3	1.181	2.156	6.9	19.7	10 28	3 9.82	+16 28.7	1.064	2.040	7.2	19.2
11 7	3 0.58	+15 27.2	1.155	2.145	1.3	19.4	11 7	3 0.25	+15 16.1	1.058	2.048	1.4	18.9
11 17	2 49.12	+15 13.8	1.155	2.135	4.8	19.6	11 17	2 50.60	+14 4.3	1.076	2.056	5.1	19.1
11 27	2 38.85	+15 4.3	1.181	2.125	10.4	19.9	11 27	2 42.50	+13 2.6	1.120	2.065	10.7	19.5
12 7	2 31.17	+15 3.6	1.230	2.115	15.4	20.1	12 7	2 37.10	+12 18.2	1.185	2.074	15.6	19.8
12 17	2 26.87	+15 15.0	1.299	2.106	19.6	20.4	12 17	2 34.96	+11 54.5	1.270	2.084	19.6	20.1
<b>236494</b>	2006 <i>GJ</i> <sub>12</sub>	11	9.2 150°52	0°5/ 8.9	18		<b>248209</b>	2005 <i>EW</i> <sub>88</sub>	11	9.2 338°65	4°8/ 11.5	18	
10 8	3 24.88	+16 26.2	2.018	2.871	12.4	21.3	10 8	3 24.04	+27 13.6	1.148	2.009	19.2	19.8
10 18	3 18.30	+16 11.9	1.953	2.877	9.0	21.1	10 18	3 19.27	+27 35.0	1.080	2.001	14.9	19.5
10 28	3 9.81	+15 51.4	1.912	2.884	5.0	20.8	10 28	3 11.04	+27 35.0	1.032	1.994	10.0	19.2
11 7	3 0.21	+15 26.9	1.899	2.890	1.0	20.5	11 7	3 0.53	+27 11.7	1.006	1.987	5.6	19.0
11 17	2 50.51	+15 1.5	1.917	2.895	3.5	20.8	11 17	2 49.47	+26 27.4	1.003	1.981	5.9	19.0
11 27	2 41.72	+14 39.4	1.963	2.900	7.4	21.0	11 27	2 39.89	+25 30.2	1.025	1.976	10.6	19.2
12 7	2 34.69	+14 24.0	2.037	2.905	11.0	21.2	12 7	2 33.32	+24 31.1	1.069	1.972	15.6	19.5
12 17	2 29.94	+14 17.9	2.133	2.909	14.0	21.5	12 17	2 30.58	+23 40.0	1.131	1.969	19.9	19.7
<b>409096</b>	2003 <i>SK</i> <sub>364</sub>	11	9.2 16°63	4°5/ 12.2	16		<b>282222</b>	2001 <i>YO</i> <sub>1</sub>	11	9.2 241°74	14°1/ 6.0	16	
10 8	3 22.09	+29 41.0	1.820	2.647	14.6	21.1	10 8	3 36.77	-13 33.0	1.184	2.021	20.3	20.0
10 18	3 16.73	+29 59.9	1.753	2.652	11.4	20.9	10 18	3 27.91	-14 0.2	1.131	2.017	17.4	19.8
10 28	3 9.09	+30 1.8	1.708	2.657	8.0	20.7	10 28	3 15.64	-13 57.3	1.098	2.012	15.0	19.7
11 7	3 0.10	+29 46.0	1.689	2.662	5.1	20.6	11 7	3 1.33	-13 14.5	1.086	2.008	14.1	19.6
11 17	2 50.90	+29 14.3	1.697	2.669	5.0	20.6	11 17	2 46.84	-11 48.0	1.097	2.003	15.4	19.7
11 27	2 42.74	+28 31.5	1.733	2.675	7.8	20.8	11 27	2 34.10	-9 41.5	1.132	1.998	18.1	19.8
12 7	2 36.60	+27 44.5	1.794	2.683	11.1	21.0	12 7	2 24.50	-7 5.0	1.188	1.993	21.3	20.0
12 17	2 33.08	+26 59.6	1.878	2.691	14.2	21.2	12 17	2 18.71	-4 9.9	1.262	1.987	24.3	20.2
<b>298170</b>	2002 <i>TS</i> <sub>145</sub>	11	9.2 152°17	1°7/ 7.8	18		<b>347183</b>	2011 <i>GH</i> <sub>31</sub>	11	9.2 320°37	9°4/ 1.8	17	
10 8	3 21.58	+15 19.2	2.126	2.983	11.7	20.7	10 8	3 19.82	+10 24.4	0.909	1.814	19.0	20.4
10 18	3 15.79	+14 15.3	2.061	2.990	8.3	20.5	10 18	3 16.13	+6 24.2	0.854	1.804	14.0	20.0
10 28	3 8.32	+13 4.6	2.022	2.995	4.7	20.3	10 28	3 9.14	+2 5.9	0.823	1.794	10.0	19.8
11 7	2 59.94	+11 51.6	2.012	3.000	1.7	20.1	11 7	3 0.15	-2 4.3	0.817	1.785	10.2	19.8
11 17	2 51.50	+10 41.8	2.032	3.005	4.1	20.3	11 17	2 50.91	-5 38.5	0.835	1.776	14.3	20.0
11 27	2 43.93	+9 40.7	2.082	3.010	7.7	20.5	11 27	2 43.28	-8 17.0	0.875	1.768	19.4	20.2
12 7	2 37.93	+8 52.4	2.158	3.014	11.0	20.8	12 7	2 38.57	-9 54.4	0.933	1.761	24.0	20.5
12 17	2 33.98	+8 19.3	2.257	3.017	13.7	21.0	12 17	2 37.44	-10 35.5	1.003	1.755	27.7	20.8
<b>514428</b>	2016 <i>UB</i> <sub>11</sub>	11	9.2 47°60	1°3/ 8.4	18		<b>76886</b>	2000 <i>YL</i> <sub>64</sub>	11	9.2 354°94	7°1/ 5.9	18	
10 8	3 22.59	+17 11.0	1.380	2.254	15.8	21.0	10 8	3 23.07	+4 9.6	1.164	2.053	17.0	19.0
10 18	3 17.19	+16 18.0	1.328	2.264	11.3	20.8	10 18	3 17.95	+3 12.0	1.112	2.050	12.8	18.7
10 28	3 9.34	+15 14.6	1.299	2.274	6.3	20.5	10 28	3 9.97	+2 19.7	1.081	2.048	8.8	18.5
11 7	3 0.13	+14 6.3	1.295	2.285	1.5	20.3	11 7	3 0.29	+1 41.3	1.072	2.046	7.1	18.4
11 17	2 50.90	+13 0.3	1.318	2.296	4.8	20.5	11 17	2 50.41	+1 24.1	1.088	2.045	9.5	18.6
11 27	2 42.99	+12 4.3	1.367	2.307	9.7	20.8	11 27	2 41.90	+1 32.3	1.127	2.045	13.7	18.8
12 7	2 37.41	+11 23.9	1.440	2.319	14.0	21.1	12 7	2 35.95	+2 6.0	1.187	2.046	17.8	19.1
12 17	2 34.67	+11 1.8	1.533	2.330	17.5	21.4	12 17	2 33.22	+3 2.1	1.264	2.047	21.4	19.3
<b>222154</b>	1999 <i>XQ</i> <sub>211</sub>	11	9.2 355°35	5°8/ 12.5	17		<b>429798</b>	2012 <i>HN</i> <sub>67</sub>	11	9.2 222°86	3°4/ 7.6	16	
10 8	3 23.25	+31 12.9	1.736	2.559	15.4	19.8	10 8	3 27.62	+9 22.6	1.548	2.415	14.8	21.8
10 18	3 17.85	+31 55.2	1.663	2.556	12.3	19.6	10 18	3 20.84	+9 4.1	1.479	2.410	10.8	21.5
10 28	3 9.88	+32 20.0	1.611	2.553	9.0	19.4	10 28	3 11.50	+8 45.1	1.433	2.404	6.4	21.3
11 7	3 0.27	+32 24.6	1.584	2.550	6.3	19.2	11 7	3 0.58	+8 29.7	1.413	2.398	3.4	21.1
11 17	2 50.27	+32 9.5	1.583	2.549	6.1	19.2	11 17	2 49.36	+8 22.1	1.422	2.392	5.9	21.2
11 27	2 41.29	+31 38.4	1.610	2.548	8.6	19.4	11 27	2 39.23	+8 26.1	1.458	2.385	10.3	21.5
12 7	2 34.49	+30 58.6	1.661	2.548	11.9	19.6	12 7	2 31.31	+8 43.8	1.518	2.379	14.5	21.7
12 17	2 30.59	+30 17.3	1.734	2.549	15.1	19.8	12 17	2 26.29	+9 15.6	1.598	2.371	18.0	21.9
<b>154445</b>	2003 <i>BQ</i> <sub>84</sub>	11	9.2 337°07	2°4/ 10.3	18		<b>97045</b>	1999 <i>UY</i> <sub>29</sub>	11	9.2 311°34	0°4/ 8.9	18	
10 8	3 25.48	+21 51.0	1.339	2.202	16.9	19.6	10 8	3 22.70	+17 13.5	1.588	2.454	14.5	20.1
10 18	3 19.83	+22 15.4	1.270	2.196	12.6	19.4	10 18	3 17.34	+16 56.5	1.513	2.444	10.5	19.8
10 28	3 11.16	+22 27.3	1.221	2.190	7.8	19.1	10 28	3 9.55	+16 30.9	1.461	2.435	6.0	19.5
11 7	3 0.53	+22 26.1	1.197	2.185	3.0	18.8	11 7	3 0.22	+15 59.1	1.435	2.425	1.1	19.2
11 17	2 49.43	+22 13.7	1.199	2.180	4.5	18.9	11 17	2 50.57	+15 25.6	1.436	2.416	4.1	19.4
11 27	2 39.56	+21 55.2	1.227	2.175	9.6	19.2	11 27	2 41.90	+14 55.7	1.465	2.407	8.9	19.6
12 7	2 32.29	+21 37.4	1.278	2.172	14.3	19.4	12 7	2 35.30	+14 34.5	1.518	2.399	13.3	19.9
12 17	2 28.40	+21 26.0	1.350	2.169	18.4	19.7	12 17	2 31.46	+14 25.7	1.592	2.391	16.9	20.1
<b>211434</b>	2002 <i>XR</i> <sub>95</sub>	11	9.2 47°32	1°6/ 8.3	18		<b>57703</b>	2001 <i>UB</i> <sub>109</sub>	11	9.2 249°90	1°1/ 8.5	18	
10 8	3 22.99	+13 59.9	1.640	2.509	14.0	20.0	10 8	3 21.88	+14 56.8	1.996	2.857	12.2	19.4
10 18	3 17.20	+13 39.6	1.586	2.519	10.0	19.8	10 18	3 16.22	+14 34.6	1.926	2.856	8.8	19.2
10 28	3 9.27	+13 14.6	1.555	2.529	5.6	19.5	10 28	3 8.69	+14 7.2	1.881	2.855	4.9	19.0
11 7	3 0.13	+12 48.4	1.551	2.540	1.7	19.3	11 7	3 0.05	+13 37.3	1.864	2.854	1.3	18.7
11 17	2 50.93	+12 24.9	1.574	2.551	4.4	19.5	11 17	2 51.24	+13 8.6	1.876	2.852	3.8	18.9
11 27	2 42.83	+12 8.6	1.625	2.562	8.7	19.8	11 27	2 43.28	+12 45.2	1.916	2.851	7.7	19.1
12 7	2 36.74	+12 2.8	1.700	2.573	12.5	20.1	12 7	2 36.97	+12 30.4	1.982	2.850	11.2	19.4
12 17	2 33.19	+12 9.0	1.797	2.585	15.7	20.3	12 17	2 32.87	+12 26.4	2.071	2.849	14.2	19.6
<b>513896</b>	2013 <i>UJ</i> <sub>8</sub>	11	9.2 0°19	7°8/ 6.6	18		<b>94686</b>	2001 <i>XO</i> <sub>25</sub>	11	9.2 266°57	2°4/ 7		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>401409</b>	2013 <i>CO</i> <sub>65</sub>		11 9.2 200°43	2.4/ 7.5	18		<b>191270</b>	2003 <i>DN</i> <sub>13</sub>		11 9.2 168°47	5.5/ 5.6	18	
10 8	3 21.45	+12 23.6	1.986	2.850	12.1	21.4	10 8	3 24.09	+3 33.2	1.909	2.771	12.6	20.5
10 18	3 15.88	+11 38.4	1.918	2.849	8.7	21.2	10 18	3 17.76	+2 35.1	1.851	2.774	9.5	20.3
10 28	3 8.48	+10 49.1	1.875	2.848	5.0	21.0	10 28	3 9.54	+1 40.7	1.818	2.778	6.6	20.1
11 7	3 0.03	+10 0.0	1.860	2.846	2.4	20.8	11 7	3 0.26	+0 55.9	1.813	2.780	5.5	20.1
11 17	2 51.43	+9 15.7	1.874	2.845	4.6	20.9	11 17	2 50.90	+0 25.5	1.836	2.782	7.3	20.2
11 27	2 43.68	+8 41.0	1.916	2.843	8.3	21.2	11 27	2 42.47	+0 13.1	1.887	2.784	10.3	20.4
12 7	2 37.56	+8 19.1	1.984	2.841	11.7	21.4	12 7	2 35.79	+0 19.6	1.962	2.785	13.3	20.6
12 17	2 33.61	+8 11.6	2.074	2.839	14.7	21.6	12 17	2 31.36	+0 43.9	2.057	2.786	15.9	20.8
<b>39649</b>	1995 <i>SM</i> <sub>15</sub>		11 9.2 55°29	5.1/12.1	18		<b>324352</b>	2006 <i>QC</i> <sub>38</sub>		11 9.2 43°37	5.8/ 6.9	18	
10 8	3 26.72	+29 41.6	1.636	2.463	16.1	18.7	10 8	3 25.80	+5 47.9	1.152	2.037	17.4	19.9
10 18	3 20.35	+30 12.6	1.570	2.468	12.6	18.5	10 18	3 19.76	+5 10.9	1.110	2.048	12.8	19.6
10 28	3 11.28	+30 25.3	1.526	2.474	8.8	18.3	10 28	3 10.91	+4 38.7	1.090	2.060	8.2	19.4
11 7	3 0.56	+30 18.0	1.507	2.479	5.7	18.1	11 7	3 0.52	+4 18.1	1.093	2.072	5.8	19.3
11 17	2 49.58	+29 51.7	1.514	2.485	5.6	18.1	11 17	2 50.14	+4 14.4	1.121	2.085	8.3	19.5
11 27	2 39.82	+29 11.7	1.549	2.490	8.6	18.3	11 27	2 41.34	+4 30.8	1.173	2.098	12.6	19.8
12 7	2 32.44	+28 25.8	1.609	2.496	12.3	18.6	12 7	2 35.22	+5 7.1	1.247	2.112	16.7	20.1
12 17	2 28.12	+27 41.6	1.691	2.502	15.6	18.8	12 17	2 32.32	+6 0.8	1.339	2.126	20.2	20.4
<b>331675</b>	2002 <i>PB</i> <sub>194</sub>		11 9.2 335°77	8.8/ 1.6	18		<b>469286</b>	1995 <i>UY</i> <sub>43</sub>		11 9.2 14°87	2.7/ 7.9	18	
10 8	3 19.40	-1 45.8	1.706	2.576	13.5	20.7	10 8	3 20.68	+13 48.2	1.010	1.907	18.3	20.4
10 18	3 14.56	-3 57.9	1.657	2.574	10.8	20.5	10 18	3 16.50	+13 8.6	0.965	1.911	13.2	20.1
10 28	3 7.78	-6 2.4	1.632	2.572	9.0	20.4	10 28	3 9.25	+12 21.9	0.939	1.917	7.5	19.8
11 7	2 59.90	-7 49.0	1.634	2.570	9.1	20.4	11 7	3 0.23	+11 34.8	0.935	1.924	2.8	19.6
11 17	2 51.92	-9 9.3	1.662	2.568	11.0	20.5	11 17	2 51.11	+10 55.0	0.955	1.933	6.3	19.8
11 27	2 44.87	-9 58.4	1.714	2.567	13.6	20.7	11 27	2 43.57	+10 29.8	0.999	1.943	11.8	20.2
12 7	2 39.59	-10 15.9	1.787	2.565	16.2	20.9	12 7	2 38.84	+10 23.5	1.062	1.954	16.7	20.5
12 17	2 36.58	-10 4.7	1.878	2.564	18.5	21.1	12 17	2 37.48	+10 36.8	1.144	1.967	20.7	20.8
<b>435776</b>	2008 <i>UM</i> <sub>295</sub>		11 9.2 105°52	1.3/ 9.9	18		<b>84975</b>	2003 <i>YG</i> <sub>43</sub>		11 9.2 319°71	5.7/ 6.5	18 R	
10 8	3 29.56	+20 11.5	1.843	2.685	13.9	21.2	10 8	3 23.74	+6 19.4	1.276	2.159	16.2	19.1
10 18	3 21.80	+20 31.1	1.787	2.704	10.2	21.0	10 18	3 18.42	+5 33.6	1.213	2.150	12.0	18.8
10 28	3 11.84	+20 41.6	1.756	2.723	6.0	20.8	10 28	3 10.31	+4 49.7	1.172	2.141	7.8	18.6
11 7	3 0.65	+20 43.3	1.753	2.742	1.9	20.5	11 7	3 0.46	+4 15.0	1.154	2.133	5.7	18.4
11 17	2 49.41	+20 37.9	1.780	2.760	3.4	20.7	11 17	2 50.27	+3 56.0	1.162	2.125	8.2	18.5
11 27	2 39.34	+20 29.0	1.836	2.777	7.5	21.0	11 27	2 41.28	+3 57.7	1.194	2.117	12.6	18.8
12 7	2 31.37	+20 21.1	1.919	2.794	11.2	21.2	12 7	2 34.71	+4 21.5	1.248	2.110	16.9	19.0
12 17	2 26.04	+20 17.9	2.025	2.811	14.3	21.5	12 17	2 31.28	+5 6.0	1.320	2.103	20.6	19.2
<b>212864</b>	2007 <i>VN</i> <sub>115</sub>		11 9.2 84°59	4.9/ 6.9	18		<b>133712</b>	2003 <i>UH</i> <sub>248</sub>		11 9.2 182°02	1.6/ 10.3	18	
10 8	3 25.66	+3 34.7	1.806	2.668	13.2	19.8	10 8	3 24.02	+23 6.0	1.932	2.774	13.3	20.3
10 18	3 18.97	+3 21.1	1.748	2.673	9.8	19.6	10 18	3 17.94	+22 50.8	1.859	2.775	9.9	20.1
10 28	3 10.25	+3 13.0	1.715	2.678	6.5	19.4	10 28	3 9.76	+22 23.1	1.810	2.775	6.0	19.9
11 7	3 0.38	+3 14.3	1.709	2.683	4.9	19.3	11 7	3 0.34	+21 44.4	1.787	2.775	2.2	19.6
11 17	2 50.40	+3 28.0	1.731	2.688	6.6	19.4	11 17	2 50.74	+20 58.0	1.794	2.774	3.3	19.7
11 27	2 41.43	+3 55.7	1.781	2.693	9.9	19.6	11 27	2 42.09	+20 9.3	1.830	2.774	7.3	20.0
12 7	2 34.33	+4 37.2	1.856	2.698	13.1	19.9	12 7	2 35.29	+19 24.1	1.892	2.773	11.1	20.2
12 17	2 29.65	+5 31.3	1.953	2.703	15.9	20.1	12 17	2 30.93	+18 47.2	1.978	2.772	14.3	20.4
<b>204436</b>	2004 <i>XL</i> <sub>59</sub>		11 9.2 68°35	2.3/ 10.7	18		<b>326907</b>	2003 <i>WS</i> <sub>150</sub>		11 9.2 14°51	4.6/ 7.1	18	
10 8	3 28.10	+24 59.3	1.562	2.405	15.9	19.9	10 8	3 22.09	+10 4.6	1.072	1.967	17.7	19.8
10 18	3 20.79	+24 39.3	1.525	2.439	11.8	19.8	10 18	3 17.39	+9 11.5	1.025	1.969	12.8	19.6
10 28	3 11.20	+24 3.3	1.510	2.473	7.2	19.6	10 28	3 9.73	+8 16.2	0.997	1.973	7.7	19.3
11 7	3 0.52	+23 13.7	1.521	2.507	2.9	19.4	11 7	3 0.34	+7 26.4	0.993	1.977	4.6	19.2
11 17	2 50.11	+22 15.5	1.561	2.541	3.8	19.5	11 17	2 50.83	+6 50.3	1.012	1.983	7.6	19.4
11 27	2 41.23	+21 16.0	1.629	2.574	7.9	19.9	11 27	2 42.83	+6 34.0	1.055	1.989	12.6	19.7
12 7	2 34.75	+20 22.2	1.722	2.607	11.8	20.2	12 7	2 37.54	+6 40.1	1.118	1.997	17.2	20.0
12 17	2 31.08	+19 39.2	1.838	2.639	14.9	20.5	12 17	2 35.55	+7 7.8	1.199	2.005	21.0	20.2
<b>347786</b>	2002 <i>EY</i> <sub>6</sub>		11 9.2 75°57	2.9/ 10.9	18		<b>126662</b>	2002 <i>CG</i> <sub>209</sub>		11 9.2 97°79	1.4/ 8.3	18	
10 8	3 26.69	+24 56.3	1.632	2.474	15.4	20.7	10 8	3 21.36	+14 12.9	2.127	2.986	11.6	20.3
10 18	3 20.05	+25 6.9	1.576	2.489	11.5	20.5	10 18	3 15.71	+13 45.5	2.064	2.993	8.3	20.1
10 28	3 10.97	+25 2.8	1.543	2.505	7.3	20.3	10 28	3 8.37	+13 13.8	2.027	3.000	4.7	19.9
11 7	3 0.52	+24 44.1	1.536	2.520	3.5	20.1	11 7	3 0.07	+12 40.7	2.018	3.007	1.5	19.7
11 17	2 50.00	+24 13.6	1.557	2.536	4.1	20.2	11 17	2 51.69	+12 9.8	2.038	3.013	3.7	19.9
11 27	2 40.75	+23 36.9	1.606	2.551	8.0	20.4	11 27	2 44.14	+11 45.0	2.087	3.020	7.3	20.1
12 7	2 33.80	+23 0.6	1.680	2.566	11.9	20.7	12 7	2 38.14	+11 29.2	2.163	3.027	10.6	20.4
12 17	2 29.69	+22 30.2	1.776	2.581	15.2	20.9	12 17	2 34.18	+11 24.3	2.261	3.033	13.4	20.6
<b>209229</b>	2003 <i>WZ</i> <sub>81</sub>		11 9.2 359°10	4.1/ 11.9	18		<b>266207</b>	2006 <i>WY</i> <sub>86</sub>		11 9.2 52°10	8.9/ 7.6	18	
10 8	3 21.94	+29 0.6	1.484	2.327	16.6	20.0	10 8	3 35.10	-5 21.9	1.278	2.132	18.1	19.2
10 18	3 17.03	+28 49.5	1.415	2.325	12.8	19.7	10 18	3 26.23	-5 3.6	1.234	2.144	14.3	19.0
10 28	3 9.45	+28 16.9	1.367	2.324	8.6	19.5	10 28	3 14.49	-4 25.2	1.211	2.158	10.7	18.9
11 7	3 0.26	+27 23.4	1.344	2.323	4.8	19.3	11 7	3 1.20	-3 22.4	1.213	2.172	8.9	18.8
11 17	2 50.84	+26 13.0	1.346	2.323	4.9	19.3	11 17	2 48.01	-1 55.5	1.242	2.186	10.3	18.9
11 27	2 42.66	+24 53.8	1.375	2.324	8.7	19.5	11 27	2 36.55	-0 7.9	1.298	2.200	13.6	19.2
12 7	2 36.86	+23 35.7	1.429	2.325	12.9	19.8	12 7	2 27.94	+1 54.2	1.377	2.215	17.1	19.4
12 17	2 34.07	+22 26.7	1.504	2.327	16.6	20.0	12 17	2 22.72	+4 4.5	1.476	2.230	20.1	19.7
<b>277359</b>	2005 <i>TY</i> <sub>139</sub>		11 9.2 295°84	2.2/ 7.9	18		<b>223930</b>	2004 <i>XM</i> <sub>1</sub>		11 9.2 24°80	5.0/ 12.6	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>297279</b>	1997 CT <sub>11</sub>	11	9.2 167°22	1°0/ 8.5 18			<b>70020</b>	1998 YR <sub>29</sub>	11	9.3 305°13	5°4/12.9 18		
10 8	3 23.88	+15 32.8	2.160	3.012	11.7	21.8	10 8	3 24.40	+33 1.1	2.255	3.053	13.2	18.6
10 18	3 17.53	+15 4.7	2.091	3.017	8.4	21.6	10 18	3 18.36	+33 41.2	2.168	3.044	10.6	18.4
10 28	3 9.41	+14 30.8	2.049	3.021	4.7	21.4	10 28	3 10.13	+34 6.1	2.105	3.034	8.0	18.2
11 7	3 0.28	+13 54.1	2.034	3.024	1.2	21.1	11 7	3 0.47	+34 13.6	2.067	3.025	5.9	18.0
11 17	2 51.04	+13 18.1	2.050	3.027	3.5	21.3	11 17	2 50.40	+34 3.2	2.058	3.015	5.6	18.0
11 27	2 42.63	+12 46.8	2.095	3.029	7.3	21.5	11 27	2 41.08	+33 37.8	2.076	3.006	7.6	18.1
12 7	2 35.84	+12 24.0	2.168	3.030	10.6	21.8	12 7	2 33.51	+33 2.8	2.122	2.997	10.3	18.3
12 17	2 31.16	+12 11.8	2.263	3.031	13.5	22.0	12 17	2 28.36	+32 24.2	2.191	2.989	12.9	18.4
<b>383073</b>	2005 RJ <sub>44</sub>	11	9.2 31°08	0°2/ 9.3 18			<b>410114</b>	2007 EC <sub>218</sub>	11	9.3 262°79	1°3/ 8.3 18		
10 8	3 27.73	+16 8.3	1.199	2.074	17.6	19.9	10 8	3 20.38	+14 56.1	2.174	3.033	11.4	21.6
10 18	3 21.39	+16 38.2	1.148	2.083	12.8	19.6	10 18	3 15.10	+14 20.7	2.097	3.026	8.2	21.4
10 28	3 11.99	+17 1.7	1.119	2.093	7.3	19.4	10 28	3 8.10	+13 39.7	2.046	3.019	4.6	21.2
11 7	3 0.78	+17 19.2	1.114	2.104	1.4	19.0	11 7	3 0.07	+12 56.3	2.023	3.012	1.4	20.9
11 17	2 49.39	+17 32.6	1.134	2.116	4.5	19.3	11 17	2 51.86	+12 14.3	2.029	3.005	3.7	21.1
11 27	2 39.55	+17 45.5	1.181	2.128	10.0	19.6	11 27	2 44.37	+11 38.2	2.064	2.997	7.4	21.3
12 7	2 32.53	+18 2.0	1.250	2.141	14.8	20.0	12 7	2 38.37	+11 11.6	2.126	2.990	10.8	21.5
12 17	2 28.96	+18 25.3	1.339	2.154	18.7	20.3	12 17	2 34.38	+10 56.8	2.210	2.982	13.6	21.7
<b>232106</b>	2001 XK <sub>220</sub>	11	9.2 359°58	1°6/ 9.9 18			<b>517501</b>	2014 QG <sub>324</sub>	11	9.3 114°60	3°9/12.3 18		
10 8	3 20.18	+20 24.4	1.038	1.926	18.7	19.9	10 8	3 25.76	+30 29.2	2.599	3.398	11.6	21.5
10 18	3 16.43	+20 35.0	0.981	1.921	13.8	19.6	10 18	3 18.81	+30 55.6	2.533	3.414	9.1	21.4
10 28	3 9.41	+20 31.4	0.944	1.918	8.2	19.3	10 28	3 10.13	+31 8.8	2.492	3.429	6.4	21.3
11 7	3 0.33	+20 15.1	0.928	1.917	2.5	18.9	11 7	3 0.44	+31 8.1	2.478	3.445	4.3	21.1
11 17	2 50.87	+19 50.1	0.935	1.918	4.7	19.1	11 17	2 50.63	+30 54.2	2.494	3.459	4.2	21.2
11 27	2 42.89	+19 23.5	0.966	1.920	10.6	19.4	11 27	2 41.63	+30 30.2	2.541	3.474	6.2	21.3
12 7	2 37.80	+19 3.0	1.017	1.924	15.8	19.7	12 7	2 34.20	+30 0.5	2.615	3.488	8.7	21.5
12 17	2 36.33	+18 54.0	1.087	1.930	20.2	20.0	12 17	2 28.85	+29 29.9	2.715	3.502	11.0	21.7
<b>439752</b>	2015 FP <sub>325</sub>	11	9.3 139°91	3°4/ 7.4 18			<b>376588</b>	2013 PE <sub>25</sub>	11	9.3 200°04	8°3/17.9 18		
10 8	3 26.34	+ 9 18.8	1.651	2.517	14.0	20.7	10 8	3 30.09	+49 56.3	3.118	3.783	12.5	21.7
10 18	3 19.65	+ 8 50.0	1.593	2.524	10.2	20.5	10 18	3 22.39	+50 46.9	3.030	3.780	11.1	21.6
10 28	3 10.73	+ 8 20.7	1.559	2.530	6.1	20.3	10 28	3 12.40	+51 18.2	2.962	3.776	9.8	21.5
11 7	3 0.54	+ 7 55.3	1.551	2.535	3.4	20.1	11 7	3 0.90	+51 26.6	2.918	3.771	8.7	21.4
11 17	2 50.24	+ 7 38.0	1.572	2.541	5.7	20.3	11 17	2 49.00	+51 10.6	2.900	3.766	8.3	21.4
11 27	2 41.05	+ 7 32.8	1.621	2.546	9.7	20.5	11 27	2 37.91	+50 31.9	2.907	3.761	8.6	21.4
12 7	2 33.94	+ 7 41.4	1.694	2.551	13.5	20.8	12 7	2 28.67	+49 35.6	2.941	3.755	9.6	21.4
12 17	2 29.45	+ 8 4.4	1.788	2.555	16.6	21.0	12 17	2 21.97	+48 28.0	2.998	3.749	10.9	21.5
<b>411891</b>	2012 FK <sub>36</sub>	11	9.3 130°63	1°9/ 7.7 18			<b>70651</b>	1999 TV <sub>248</sub>	11	9.3 167°9	3°2/ 7.0 18		
10 8	3 19.85	+12 33.4	2.463	3.321	10.3	21.5	10 8	3 18.55	+14 49.8	1.275	2.163	15.9	18.2
10 18	3 14.42	+11 53.4	2.400	3.328	7.3	21.3	10 18	3 14.47	+13 12.3	1.225	2.168	11.4	17.9
10 28	3 7.57	+11 10.3	2.364	3.336	4.2	21.2	10 28	3 7.93	+11 24.8	1.197	2.174	6.5	17.7
11 7	2 59.94	+10 27.5	2.356	3.343	1.9	21.0	11 7	3 0.04	+ 9 36.7	1.194	2.181	3.2	17.5
11 17	2 52.25	+ 9 48.6	2.379	3.350	3.8	21.2	11 17	2 52.11	+ 7 58.6	1.217	2.189	6.4	17.7
11 27	2 45.26	+ 9 17.0	2.431	3.356	6.9	21.4	11 27	2 45.47	+ 6 39.9	1.266	2.198	11.1	18.0
12 7	2 39.59	+ 8 55.3	2.510	3.363	9.7	21.6	12 7	2 41.09	+ 5 46.3	1.337	2.208	15.4	18.3
12 17	2 35.67	+ 8 45.1	2.612	3.369	12.2	21.8	12 17	2 39.47	+ 5 19.0	1.427	2.219	18.9	18.6
<b>407911</b>	2012 CF <sub>6</sub>	11	9.3 258°49	5°2/ 5.6 18			<b>172198</b>	2002 QF <sub>20</sub>	11	9.3 65°03	1°1/10.0 18		
10 8	3 21.55	+ 2 8.8	2.188	3.048	11.3	21.1	10 8	3 22.90	+22 34.3	1.687	2.539	14.5	20.0
10 18	3 15.87	+ 1 30.0	2.117	3.038	8.6	20.9	10 18	3 17.19	+22 0.1	1.630	2.552	10.6	19.8
10 28	3 8.51	+ 0 55.8	2.071	3.028	6.1	20.8	10 28	3 9.33	+21 12.2	1.596	2.565	6.3	19.5
11 7	3 0.14	+ 0 30.7	2.053	3.018	5.2	20.7	11 7	3 0.30	+20 13.7	1.589	2.578	1.8	19.3
11 17	2 51.58	+ 0 18.6	2.064	3.008	6.7	20.8	11 17	2 51.25	+19 9.7	1.610	2.591	3.5	19.4
11 27	2 43.72	+ 0 22.0	2.102	2.998	9.4	20.9	11 27	2 43.36	+18 7.1	1.660	2.605	7.8	19.7
12 7	2 37.31	+ 0 41.6	2.165	2.988	12.2	21.1	12 7	2 37.51	+17 12.3	1.734	2.618	11.7	20.0
12 17	2 32.88	+ 1 16.7	2.250	2.977	14.7	21.3	12 17	2 34.21	+16 29.9	1.832	2.631	15.0	20.2
<b>12273</b>	1990 TS <sub>4</sub>	11	9.3 3°64	5°6/ 6.3 18			<b>157490</b>	2005 RR <sub>8</sub>	11	9.3 358°60	1°5/ 9.9 18		
10 8	3 23.21	+ 3 55.8	1.599	2.471	14.1	17.2	10 8	3 21.93	+20 44.9	1.121	2.001	18.2	19.5
10 18	3 17.48	+ 3 19.2	1.541	2.470	10.5	17.0	10 18	3 17.55	+20 48.6	1.061	1.998	13.5	19.2
10 28	3 9.55	+ 2 47.6	1.506	2.470	7.1	16.8	10 28	3 10.01	+20 37.9	1.022	1.995	8.0	18.9
11 7	3 0.33	+ 2 26.4	1.498	2.471	5.6	16.7	11 7	3 0.48	+20 14.3	1.005	1.994	2.4	18.6
11 17	2 50.97	+ 2 20.2	1.516	2.471	7.5	16.8	11 17	2 50.59	+19 42.3	1.012	1.994	4.6	18.7
11 27	2 42.65	+ 2 32.0	1.560	2.472	11.0	17.0	11 27	2 42.13	+19 9.0	1.043	1.995	10.3	19.0
12 7	2 36.32	+ 3 2.2	1.628	2.474	14.5	17.2	12 7	2 36.47	+18 42.1	1.096	1.997	15.4	19.3
12 17	2 32.55	+ 3 49.0	1.716	2.475	17.5	17.5	12 17	2 34.32	+18 27.2	1.167	2.001	19.7	19.6
<b>318483</b>	2005 ES <sub>94</sub>	11	9.3 215°03	2°9/11.4 18			<b>448944</b>	2011 WJ <sub>34</sub>	11	9.3 91°18	0°7/ 9.8 18		
10 8	3 24.90	+27 5.2	2.254	3.074	12.4	21.8	10 8	3 22.38	+21 12.0	1.892	2.743	13.2	21.4
10 18	3 18.48	+27 3.5	2.167	3.067	9.5	21.6	10 18	3 16.69	+20 41.8	1.828	2.750	9.7	21.2
10 28	3 10.07	+26 48.3	2.105	3.059	6.3	21.4	10 28	3 9.03	+20 0.2	1.787	2.757	5.6	21.0
11 7	3 0.44	+26 19.6	2.071	3.051	3.4	21.2	11 7	3 0.25	+19 10.0	1.774	2.763	1.4	20.7
11 17	2 50.54	+25 39.4	2.066	3.042	3.6	21.2	11 17	2 51.39	+18 15.5	1.789	2.770	3.2	20.9
11 27	2 41.44	+24 52.0	2.091	3.033	6.7	21.4	11 27	2 43.50	+17 22.3	1.834	2.777	7.4	21.2
12 7	2 34.01	+24 3.0	2.144	3.023	10.0	21.6	12 7	2 37.44	+16 36.0	1.904	2.783	11.1	21.4
12 17	2 28.85	+23 17.9	2.221	3.012	13.0	21.8	12 17	2 33.71	+16 0.5	1.998	2.790	14.2	21.6
<b>290321</b>	2005 SR <sub>207</sub>	11	9.3 340°86	2°9/10.8 18			<b>484761</b>	2009 BA <sub>43</sub>	11	9.3 270°58	9°7/ 2.1 18		
10 8	3 20.69	+25 1.2	1.193	2.									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>56085</b>	1999 AV <sub>19</sub>		11 9.3 22°44'	3°3/10.9	18		<b>411867</b>	2012 DX <sub>96</sub>		11 9.3 185°63'	5°2/13.6	17	
10 8	3 22.33	+24 21.8	1.016	1.894	19.8	17.7	10 8	3 25.23	+35 24.2	2.626	3.402	12.1	21.7
10 18	3 17.86	+24 31.1	0.974	1.906	14.8	17.5	10 18	3 18.65	+35 50.0	2.543	3.402	9.8	21.5
10 28	3 10.11	+24 20.3	0.950	1.919	9.3	17.2	10 28	3 10.17	+36 0.1	2.484	3.401	7.5	21.4
11 7	3 0.48	+23 50.4	0.947	1.934	4.1	17.0	11 7	3 0.53	+35 52.9	2.451	3.400	5.7	21.3
11 17	2 50.78	+23 6.7	0.968	1.950	5.1	17.1	11 17	2 50.63	+35 28.9	2.448	3.399	5.3	21.2
11 27	2 42.86	+22 18.1	1.013	1.967	10.2	17.5	11 27	2 41.49	+34 50.9	2.473	3.398	6.8	21.3
12 7	2 37.98	+21 34.1	1.079	1.986	15.1	17.8	12 7	2 33.95	+34 4.1	2.526	3.396	9.1	21.5
12 17	2 36.67	+21 1.6	1.164	2.006	19.2	18.1	12 17	2 28.58	+33 14.3	2.604	3.394	11.3	21.6
<b>10445</b>	Coster		11 9.3 143°72'	1°7/ 8.2	18		<b>395424</b>	2011 SA <sub>191</sub>		11 9.3 84°90'	6°3/ 7.3	18	
10 8	3 25.23	+13 39.1	1.910	2.768	12.8	19.0	10 8	3 35.11	- 3 32.8	1.942	2.774	13.7	20.3
10 18	3 18.64	+13 8.7	1.849	2.777	9.2	18.8	10 18	3 25.45	- 3 12.2	1.894	2.795	10.6	20.2
10 28	3 10.10	+12 33.7	1.813	2.785	5.2	18.5	10 28	3 13.81	- 2 39.1	1.872	2.817	7.7	20.1
11 7	3 0.47	+11 57.8	1.805	2.793	1.8	18.3	11 7	3 1.17	- 1 51.2	1.880	2.838	6.3	20.0
11 17	2 50.76	+11 24.8	1.826	2.801	4.2	18.5	11 17	2 48.66	- 0 48.2	1.919	2.859	7.5	20.1
11 27	2 42.04	+10 59.2	1.877	2.808	8.2	18.8	11 27	2 37.42	+ 0 28.4	1.988	2.880	10.1	20.3
12 7	2 35.14	+10 44.2	1.953	2.814	11.7	19.0	12 7	2 28.26	+ 1 55.9	2.085	2.900	12.9	20.6
12 17	2 30.58	+10 41.6	2.052	2.820	14.7	19.2	12 17	2 21.66	+ 3 30.9	2.206	2.920	15.3	20.8
<b>237417</b>	1998 UV <sub>23</sub>		11 9.3 45°40'	0°5/ 9.4	18		<b>515896</b>	2015 PG <sub>48</sub>		11 9.3 125°58'	4°5/12.2	18	
10 8	3 30.47	+15 58.4	1.393	2.255	16.3	19.5	10 8	3 27.13	+29 48.5	1.936	2.751	14.4	22.0
10 18	3 22.91	+16 43.7	1.349	2.278	11.8	19.3	10 18	3 20.33	+30 10.3	1.867	2.759	11.2	21.9
10 28	3 12.67	+17 23.3	1.329	2.301	6.7	19.0	10 28	3 11.22	+30 15.6	1.822	2.767	7.8	21.7
11 7	3 0.95	+17 56.5	1.335	2.325	1.4	18.8	11 7	3 0.72	+30 3.4	1.803	2.775	5.0	21.5
11 17	2 49.26	+18 24.1	1.369	2.350	4.0	19.0	11 17	2 50.03	+29 34.9	1.812	2.782	4.9	21.5
11 27	2 39.08	+18 48.6	1.430	2.374	8.9	19.4	11 27	2 40.40	+28 54.7	1.850	2.789	7.6	21.7
12 7	2 31.51	+19 13.4	1.516	2.399	13.1	19.7	12 7	2 32.84	+28 9.5	1.915	2.796	10.9	21.9
12 17	2 27.09	+19 41.5	1.624	2.425	16.6	20.0	12 17	2 27.95	+27 25.9	2.002	2.803	13.9	22.1
<b>451327</b>	2010 VE <sub>62</sub>		11 9.3 241°12'	5°0/14.2	18		<b>242195</b>	2003 PC <sub>6</sub>		11 9.3 65°60'	1°4/10.3	18	
10 8	3 22.98	+36 38.6	2.284	3.066	13.5	20.4	10 8	3 21.57	+23 0.5	2.076	2.919	12.5	20.1
10 18	3 17.10	+36 8.2	2.198	3.063	10.9	20.2	10 18	3 15.94	+22 39.3	2.018	2.934	9.2	19.9
10 28	3 9.27	+35 16.1	2.134	3.059	8.2	20.0	10 28	3 8.55	+22 6.7	1.984	2.950	5.5	19.7
11 7	3 0.32	+34 2.4	2.097	3.055	5.7	19.9	11 7	3 0.20	+21 24.9	1.977	2.965	1.9	19.5
11 17	2 51.29	+32 30.1	2.089	3.051	5.1	19.8	11 17	2 51.83	+20 37.4	2.000	2.981	3.0	19.6
11 27	2 43.22	+30 45.3	2.110	3.047	7.0	20.0	11 27	2 44.40	+19 49.1	2.052	2.996	6.6	19.8
12 7	2 36.95	+28 56.4	2.160	3.043	9.8	20.1	12 7	2 38.64	+19 5.1	2.131	3.012	10.0	20.1
12 17	2 33.00	+27 11.4	2.235	3.039	12.5	20.3	12 17	2 35.03	+18 29.2	2.233	3.028	12.8	20.3
<b>411978</b>	2012 HN <sub>66</sub>		11 9.3 176°18'	5°3/ 5.3	18		<b>145635</b>	2585 P-L		11 9.3 356°99'	4°9/11.4	18	
10 8	3 21.52	- 1 10.9	2.555	3.404	10.2	21.0	10 8	3 24.19	+26 20.3	1.379	2.231	17.1	18.6
10 18	3 15.59	- 1 40.4	2.494	3.405	7.9	20.8	10 18	3 19.02	+27 14.9	1.312	2.227	13.3	18.4
10 28	3 8.25	- 2 3.2	2.459	3.406	6.0	20.7	10 28	3 10.85	+27 54.2	1.265	2.223	9.0	18.2
11 7	3 0.13	- 2 15.5	2.453	3.406	5.4	20.6	11 7	3 0.70	+28 15.5	1.243	2.221	5.5	17.9
11 17	2 51.93	- 2 14.8	2.475	3.407	6.6	20.7	11 17	2 50.05	+28 18.3	1.246	2.220	5.8	18.0
11 27	2 44.38	- 1 59.3	2.526	3.407	8.7	20.9	11 27	2 40.60	+28 6.8	1.274	2.220	9.5	18.2
12 7	2 38.12	- 1 29.3	2.603	3.407	11.0	21.0	12 7	2 33.73	+27 48.1	1.325	2.221	13.7	18.4
12 17	2 33.57	- 0 45.9	2.701	3.406	13.0	21.2	12 17	2 30.22	+27 29.4	1.398	2.224	17.4	18.7
<b>138091</b>	2000 DC <sub>69</sub>		11 9.3 248°51'	1°5/10.3	18		<b>254699</b>	2005 MY <sub>38</sub>		11 9.3 106°06'	2°6/11.1	18	
10 8	3 23.50	+22 50.8	2.077	2.917	12.6	20.2	10 8	3 23.21	+25 55.0	1.986	2.820	13.4	21.0
10 18	3 17.60	+22 39.6	1.990	2.905	9.4	19.9	10 18	3 17.37	+25 48.7	1.915	2.823	10.1	20.8
10 28	3 9.65	+22 16.9	1.927	2.893	5.7	19.7	10 28	3 9.48	+25 28.5	1.867	2.826	6.5	20.6
11 7	3 0.42	+21 43.6	1.892	2.880	2.1	19.4	11 7	3 0.40	+24 55.1	1.846	2.829	3.2	20.4
11 17	2 50.88	+21 2.7	1.887	2.867	3.2	19.5	11 17	2 51.15	+24 11.2	1.854	2.832	3.6	20.4
11 27	2 42.12	+20 18.6	1.910	2.853	7.1	19.7	11 27	2 42.84	+23 22.0	1.891	2.835	7.1	20.7
12 7	2 35.06	+19 36.9	1.961	2.840	10.8	19.9	12 7	2 36.35	+22 33.6	1.954	2.838	10.6	20.9
12 17	2 30.31	+19 2.3	2.035	2.826	14.0	20.1	12 17	2 32.26	+21 51.1	2.041	2.841	13.7	21.1
<b>333835</b>	2012 KU <sub>28</sub>		11 9.3 284°21'	2°8/ 7.4	17		<b>388713</b>	2007 VE <sub>111</sub>		11 9.3 66°26'	0°8/ 8.8	18	
10 8	3 21.64	+ 8 45.5	2.222	3.083	11.1	20.7	10 8	3 25.25	+16 3.1	1.640	2.502	14.3	20.9
10 18	3 15.99	+ 8 28.9	2.145	3.073	8.1	20.5	10 18	3 18.80	+15 47.4	1.593	2.523	10.3	20.7
10 28	3 8.62	+ 8 12.5	2.094	3.064	4.9	20.3	10 28	3 10.22	+15 25.1	1.571	2.544	5.7	20.5
11 7	3 0.22	+ 7 59.4	2.072	3.055	2.8	20.1	11 7	3 0.52	+14 59.3	1.575	2.565	1.2	20.2
11 17	2 51.59	+ 7 52.3	2.078	3.046	4.7	20.2	11 17	2 50.86	+14 33.8	1.608	2.586	3.9	20.5
11 27	2 43.65	+ 7 54.0	2.114	3.036	7.9	20.4	11 27	2 42.42	+14 13.3	1.668	2.608	8.3	20.8
12 7	2 37.15	+ 8 6.2	2.175	3.027	11.1	20.6	12 7	2 36.08	+14 1.3	1.754	2.629	12.1	21.0
12 17	2 32.63	+ 8 29.4	2.260	3.018	13.8	20.8	12 17	2 32.32	+14 0.3	1.861	2.650	15.2	21.3
<b>191227</b>	2002 RA <sub>239</sub>		11 9.3 103°80'	0°5/ 8.9	18		<b>446459</b>	2014 JV <sub>68</sub>		11 9.3 120°41'	1°1/10.0	18	
10 8	3 20.15	+17 15.7	2.493	3.343	10.4	20.3	10 8	3 24.16	+21 27.8	2.149	2.990	12.2	22.0
10 18	3 14.64	+16 43.7	2.432	3.356	7.5	20.1	10 18	3 17.78	+21 15.5	2.086	3.003	9.0	21.8
10 28	3 7.72	+16 5.7	2.397	3.369	4.2	19.9	10 28	3 9.59	+20 53.5	2.049	3.015	5.3	21.6
11 7	3 0.03	+15 24.4	2.391	3.382	0.8	19.7	11 7	3 0.41	+20 23.4	2.039	3.028	1.6	21.4
11 17	2 52.31	+14 43.0	2.416	3.394	2.9	19.9	11 17	2 51.17	+19 48.1	2.059	3.039	3.0	21.5
11 27	2 45.32	+14 5.2	2.470	3.407	6.2	20.1	11 27	2 42.84	+19 11.9	2.109	3.051	6.6	21.7
12 7	2 39.68	+13 34.4	2.553	3.419	9.1	20.3	12 7	2 36.20	+18 39.3	2.186	3.062	10.0	22.0
12 17	2 35.81	+13 12.9	2.659	3.431	11.6	20.5	12 17	2 31.73	+18 14.0	2.287	3.073	12.8	22.2
<b>333509</b>	2005 LD <sub>6</sub>		11 9.3 86°43'	5°1/13.7	16		<b>241319</b>	2007 VF <sub>73</sub>		11 9.3 120°52'	1°0/ 8.6	18	
10 8	3 30.61	+36 26.1	1.564	2.362	18.0	20.4							



EPHEMERIDES

11 9.3

11 9.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>449809</b>	2014 <i>OJ</i> <sub>331</sub>		11 9.3 337°56	0°7/ 9.7 18			<b>147077</b>	2002 <i>SG</i> <sub>25</sub>		11 9.3 283°19	1°2/ 9.8 18		
10 8	3 21.80	+20 12.7	1.970	2.822	12.7	21.6	10 8	3 27.65	+19 24.0	1.462	2.321	15.9	19.6
10 18	3 16.33	+19 57.8	1.897	2.820	9.3	21.4	10 18	3 21.29	+19 41.4	1.389	2.315	11.8	19.4
10 28	3 8.90	+19 33.3	1.849	2.818	5.4	21.1	10 28	3 12.07	+19 49.3	1.338	2.309	7.0	19.1
11 7	3 0.31	+19 1.1	1.828	2.817	1.3	20.8	11 7	3 0.99	+19 47.9	1.313	2.302	1.9	18.7
11 17	2 51.52	+18 24.4	1.835	2.816	3.2	21.0	11 17	2 49.45	+19 39.4	1.315	2.296	4.1	18.9
11 27	2 43.59	+17 48.1	1.871	2.815	7.2	21.2	11 27	2 39.05	+19 28.1	1.344	2.290	9.2	19.2
12 7	2 37.38	+17 16.7	1.934	2.814	10.9	21.5	12 7	2 31.08	+19 19.5	1.398	2.284	13.8	19.4
12 17	2 33.44	+16 54.1	2.020	2.813	14.0	21.7	12 17	2 26.29	+19 18.3	1.472	2.278	17.8	19.7
<b>60228</b>	1999 <i>VL</i> <sub>145</sub>		11 9.3 85°66	2°2/ 7.5 18			<b>342621</b>	2008 <i>UR</i> <sub>341</sub>		11 9.3 43°88	0°4/ 9.1 18		
10 8	3 20.19	+13 6.8	2.112	2.975	11.5	19.1	10 8	3 23.85	+18 36.1	1.262	2.137	16.9	20.2
10 18	3 14.85	+12 8.1	2.055	2.986	8.2	18.9	10 18	3 18.24	+17 57.6	1.223	2.158	12.1	19.9
10 28	3 7.91	+11 5.3	2.025	2.997	4.7	18.7	10 28	3 10.05	+17 7.6	1.206	2.180	6.8	19.7
11 7	3 0.10	+10 2.7	2.022	3.008	2.2	18.6	11 7	3 0.55	+16 11.2	1.213	2.203	1.2	19.4
11 17	2 52.28	+9 5.5	2.049	3.020	4.4	18.7	11 17	2 51.17	+15 15.1	1.246	2.226	4.4	19.7
11 27	2 45.30	+8 18.3	2.105	3.031	7.8	19.0	11 27	2 43.33	+14 26.8	1.305	2.250	9.5	20.1
12 7	2 39.85	+7 44.3	2.187	3.042	10.9	19.2	12 7	2 38.00	+13 52.0	1.387	2.274	13.9	20.4
12 17	2 36.37	+7 25.1	2.291	3.053	13.5	19.4	12 17	2 35.64	+13 33.5	1.490	2.299	17.4	20.7
<b>146084</b>	2000 <i>HG</i> <sub>62</sub>		11 9.3 217°12	0°1/ 9.2 18			<b>514739</b>	2007 <i>CP</i> <sub>29</sub>		11 9.3 139°86	3°3/ 12.2 18		
10 8	3 25.08	+18 51.5	1.860	2.712	13.4	21.1	10 8	3 23.45	+29 51.0	2.586	3.392	11.5	21.8
10 18	3 18.83	+18 22.6	1.781	2.705	9.7	20.9	10 18	3 17.17	+29 49.4	2.514	3.402	8.9	21.7
10 28	3 10.39	+17 43.6	1.727	2.698	5.6	20.6	10 28	3 9.25	+29 34.2	2.467	3.411	6.1	21.5
11 7	3 0.61	+16 57.2	1.700	2.690	1.0	20.3	11 7	3 0.41	+29 5.8	2.448	3.420	3.8	21.4
11 17	2 50.57	+16 7.6	1.702	2.682	3.6	20.4	11 17	2 51.47	+28 25.9	2.458	3.429	3.7	21.4
11 27	2 41.44	+15 20.4	1.734	2.673	8.0	20.7	11 27	2 43.33	+27 38.4	2.499	3.437	5.9	21.5
12 7	2 34.20	+14 41.1	1.791	2.664	12.0	20.9	12 7	2 36.69	+26 48.4	2.567	3.445	8.6	21.7
12 17	2 29.46	+14 13.6	1.871	2.654	15.4	21.1	12 17	2 32.02	+26 0.5	2.661	3.453	11.1	21.9
<b>142504</b>	2002 <i>TS</i> <sub>35</sub>		11 9.3 97°19	2°4/ 7.4 18			<b>325523</b>	2009 <i>RN</i> <sub>69</sub>		11 9.3 40°24	1°2/ 8.3 18		
10 8	3 21.59	+14 12.3	1.872	2.736	12.7	19.9	10 8	3 19.78	+16 47.6	1.795	2.661	13.1	20.1
10 18	3 16.01	+12 56.8	1.816	2.747	9.1	19.7	10 18	3 14.81	+15 50.4	1.743	2.675	9.3	19.9
10 28	3 8.62	+11 35.1	1.785	2.758	5.1	19.5	10 28	3 7.98	+14 45.4	1.715	2.689	5.2	19.6
11 7	3 0.25	+10 12.9	1.782	2.769	2.4	19.3	11 7	3 0.16	+13 37.2	1.714	2.703	1.4	19.4
11 17	2 51.87	+8 56.6	1.809	2.779	4.8	19.5	11 17	2 52.35	+12 31.7	1.741	2.718	4.0	19.6
11 27	2 44.49	+7 52.5	1.864	2.790	8.6	19.8	11 27	2 45.55	+11 34.9	1.797	2.734	8.0	19.9
12 7	2 38.84	+7 4.7	1.944	2.800	12.0	20.0	12 7	2 40.51	+10 51.2	1.878	2.749	11.6	20.2
12 17	2 35.41	+6 35.0	2.047	2.810	14.9	20.2	12 17	2 37.70	+10 23.1	1.981	2.765	14.6	20.4
<b>266762</b>	2009 <i>SF</i> <sub>122</sub>		11 9.3 160°75	0°1/ 9.3 18			<b>11914</b>	<i>Sinachopoulos</i>		11 9.3 147°27	0°2/ 9.2 18		
10 8	3 25.96	+19 25.2	1.762	2.614	14.0	21.5	10 8	3 26.88	+18 32.4	1.639	2.495	14.6	19.1
10 18	3 19.42	+18 52.8	1.695	2.619	10.2	21.3	10 18	3 20.21	+18 4.5	1.577	2.503	10.6	18.9
10 28	3 10.67	+18 9.6	1.653	2.624	5.8	21.0	10 28	3 11.17	+17 26.4	1.538	2.509	6.0	18.6
11 7	3 0.65	+17 18.6	1.638	2.628	1.1	20.7	11 7	3 0.79	+16 41.2	1.526	2.516	1.1	18.3
11 17	2 50.50	+16 24.6	1.652	2.631	3.6	20.9	11 17	2 50.28	+15 53.6	1.542	2.522	3.9	18.5
11 27	2 41.44	+15 33.6	1.694	2.634	8.1	21.2	11 27	2 40.96	+15 9.8	1.586	2.527	8.5	18.8
12 7	2 34.41	+14 51.2	1.763	2.637	12.1	21.5	12 7	2 33.81	+14 35.2	1.656	2.532	12.7	19.1
12 17	2 29.96	+14 21.5	1.854	2.639	15.4	21.7	12 17	2 29.41	+14 13.4	1.748	2.536	16.1	19.3
<b>224065</b>	2005 <i>NK</i> <sub>22</sub>		11 9.3 128°75	2°3/ 7.9 18			<b>9144</b>	<i>Hollisjohnson</i>		11 9.3 35°49	5°4/ 11.1 18		
10 8	3 25.33	+13 35.1	1.614	2.480	14.3	21.1	10 8	3 31.94	+24 32.5	0.985	1.852	21.2	15.7
10 18	3 19.00	+12 48.7	1.557	2.489	10.3	20.9	10 18	3 24.97	+25 57.1	0.952	1.875	16.1	15.5
10 28	3 10.42	+11 56.6	1.523	2.497	5.8	20.7	10 28	3 14.24	+27 2.5	0.937	1.900	10.6	15.3
11 7	3 0.60	+11 3.9	1.517	2.505	2.3	20.5	11 7	3 1.38	+27 44.0	0.944	1.925	6.1	15.2
11 17	2 50.71	+10 16.1	1.539	2.512	5.0	20.7	11 17	2 48.54	+28 1.2	0.976	1.952	6.6	15.3
11 27	2 41.99	+9 39.1	1.588	2.520	9.3	20.9	11 27	2 37.90	+28 0.3	1.031	1.979	11.0	15.6
12 7	2 35.36	+9 16.5	1.662	2.527	13.3	21.2	12 7	2 30.85	+27 50.7	1.108	2.008	15.5	16.0
12 17	2 31.36	+9 10.2	1.758	2.533	16.5	21.4	12 17	2 27.96	+27 41.0	1.204	2.037	19.3	16.3
<b>137162</b>	1999 <i>FW</i> <sub>35</sub>		11 9.3 289°95	0°7/ 8.9 18			<b>324249</b>	2006 <i>BG</i> <sub>177</sub>		11 9.3 185°62	3°7/ 6.4 18		
10 8	3 22.57	+16 20.8	1.858	2.718	13.0	19.7	10 8	3 20.44	+6 7.8	2.394	3.254	10.4	20.8
10 18	3 17.12	+16 3.0	1.771	2.700	9.5	19.4	10 18	3 14.97	+5 30.5	2.328	3.254	7.7	20.6
10 28	3 9.50	+15 38.1	1.709	2.682	5.4	19.1	10 28	3 8.01	+4 54.8	2.289	3.254	5.0	20.5
11 7	3 0.47	+15 8.4	1.674	2.664	1.1	18.8	11 7	3 0.20	+4 24.4	2.278	3.253	3.7	20.4
11 17	2 51.05	+14 37.7	1.667	2.646	3.8	19.0	11 17	2 52.28	+4 2.8	2.296	3.253	5.2	20.5
11 27	2 42.39	+14 10.6	1.688	2.627	8.2	19.2	11 27	2 45.03	+3 52.6	2.343	3.252	8.0	20.7
12 7	2 35.50	+13 51.5	1.735	2.609	12.2	19.4	12 7	2 39.12	+3 55.4	2.416	3.251	10.7	20.9
12 17	2 31.04	+13 43.6	1.804	2.591	15.7	19.6	12 17	2 34.99	+4 11.2	2.512	3.250	13.1	21.0
<b>216056</b>	2006 <i>PM</i> <sub>21</sub>		11 9.3 62°99	4°8/ 6.9 18			<b>392187</b>	2009 <i>QJ</i> <sub>32</sub>		11 9.3 56°27	0°4/ 9.5 18		
10 8	3 26.03	+8 40.5	1.217	2.100	16.9	20.2	10 8	3 27.25	+19 5.9	1.230	2.100	17.6	21.0
10 18	3 19.80	+7 46.3	1.179	2.117	12.2	20.0	10 18	3 20.82	+18 53.8	1.189	2.121	12.7	20.8
10 28	3 10.94	+6 52.6	1.162	2.134	7.5	19.8	10 28	3 11.59	+18 29.8	1.169	2.142	7.2	20.5
11 7	3 0.69	+6 6.8	1.170	2.152	4.8	19.7	11 7	3 0.86	+17 57.1	1.173	2.163	1.5	20.2
11 17	2 50.55	+5 35.3	1.203	2.169	7.4	19.9	11 17	2 50.24	+17 20.8	1.204	2.185	4.3	20.5
11 27	2 41.97	+5 23.1	1.261	2.187	11.8	20.2	11 27	2 41.27	+16 47.8	1.260	2.207	9.6	20.9
12 7	2 35.97	+5 31.4	1.342	2.205	15.8	20.5	12 7	2 35.02	+16 24.0	1.340	2.229	14.1	21.2
12 17	2 33.04	+5 58.8	1.441	2.223	19.2	20.8	12 17	2 32.00	+16 13.0	1.440	2.251	17.8	21.5
<b>392041</b>	2009 <i>BN</i> <sub>87</sub>		11 9.3 203°05	1°7/ 8.2 18			<b>202554</b>	2006 <i>DV</i> <sub>198</sub>		11 9.3 158°40	3°9/ 7.4 18		
10 8													

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>209649</b>	2005 <i>CC</i> <sub>5</sub>		11 9.3 340°45	10°4/ 3.1	18		<b>229258</b>	2005 <i>AR</i> <sub>13</sub>		11 9.3 189°05	2°7/ 7.2	18	
10 8	3 22.18	- 6 59.7	1.549	2.410	15.1	19.8	10 8	3 21.28	+ 8 2.0	2.590	3.446	9.9	20.6
10 18	3 16.84	- 8 15.4	1.500	2.405	12.6	19.6	10 18	3 15.51	+ 7 42.9	2.520	3.446	7.2	20.4
10 28	3 9.29	- 9 15.6	1.472	2.401	10.7	19.5	10 28	3 8.31	+ 7 24.5	2.477	3.445	4.4	20.2
11 7	3 0.45	- 9 52.0	1.469	2.398	10.5	19.5	11 7	3 0.29	+ 7 9.4	2.462	3.444	2.7	20.1
11 17	2 51.48	- 9 58.9	1.489	2.394	12.1	19.6	11 17	2 52.15	+ 7 0.1	2.478	3.442	4.3	20.2
11 27	2 43.57	- 9 34.2	1.533	2.392	14.6	19.7	11 27	2 44.63	+ 6 59.0	2.523	3.441	7.1	20.4
12 7	2 37.66	- 8 40.5	1.597	2.389	17.2	19.9	12 7	2 38.36	+ 7 7.5	2.596	3.439	9.8	20.6
12 17	2 34.31	- 7 22.6	1.678	2.387	19.6	20.1	12 17	2 33.80	+ 7 26.1	2.692	3.437	12.1	20.8
<b>442404</b>	2011 <i>UG</i> <sub>66</sub>		11 9.3 134°78	2°0/ 8.1	18		<b>147797</b>	2005 <i>RK</i> <sub>16</sub>		11 9.3 49°90	0°7/ 9.8	18	
10 8	3 24.25	+12 8.3	1.927	2.788	12.6	21.5	10 8	3 22.71	+20 13.6	1.849	2.703	13.3	20.7
10 18	3 18.03	+11 52.1	1.863	2.792	9.1	21.3	10 18	3 17.06	+20 1.4	1.785	2.709	9.8	20.5
10 28	3 9.86	+11 33.2	1.823	2.796	5.2	21.1	10 28	3 9.37	+19 39.2	1.745	2.715	5.7	20.2
11 7	3 0.56	+11 14.7	1.811	2.799	2.0	20.9	11 7	3 0.50	+19 9.3	1.732	2.722	1.4	20.0
11 17	2 51.12	+10 59.9	1.829	2.803	4.3	21.0	11 17	2 51.50	+18 34.8	1.747	2.728	3.3	20.1
11 27	2 42.59	+10 52.0	1.875	2.806	8.1	21.3	11 27	2 43.47	+18 0.7	1.791	2.735	7.4	20.4
12 7	2 35.82	+10 53.8	1.947	2.809	11.7	21.5	12 7	2 37.29	+17 31.8	1.861	2.742	11.2	20.6
12 17	2 31.33	+11 6.4	2.041	2.813	14.6	21.7	12 17	2 33.50	+17 11.7	1.953	2.749	14.3	20.9
<b>25621</b>	2000 <i>AF</i> <sub>41</sub>		11 9.3 101°09	6°7/ 5.2	18		<b>475028</b>	2005 <i>UF</i> <sub>27</sub>		11 9.3 41°05	0°2/ 9.4	16	
10 8	3 24.42	- 1 35.5	1.954	2.809	12.7	18.1	10 8	3 25.62	+18 24.6	1.157	2.034	17.9	20.6
10 18	3 17.90	- 2 22.1	1.913	2.826	9.8	18.0	10 18	3 19.80	+18 15.3	1.117	2.053	13.0	20.4
10 28	3 9.64	- 2 59.5	1.896	2.842	7.5	17.9	10 28	3 11.09	+17 54.6	1.097	2.072	7.4	20.1
11 7	3 0.50	- 3 22.5	1.906	2.858	6.8	17.9	11 7	3 0.82	+17 25.9	1.101	2.092	1.4	19.8
11 17	2 51.41	- 3 27.6	1.944	2.874	8.2	18.0	11 17	2 50.61	+16 54.4	1.131	2.112	4.5	20.1
11 27	2 43.31	- 3 13.2	2.008	2.889	10.6	18.2	11 27	2 42.07	+16 26.8	1.185	2.133	9.9	20.5
12 7	2 36.93	- 2 40.3	2.097	2.904	13.2	18.4	12 7	2 36.29	+16 8.8	1.262	2.155	14.5	20.8
12 17	2 32.71	- 1 51.1	2.207	2.919	15.4	18.6	12 17	2 33.79	+16 3.6	1.359	2.177	18.3	21.1
<b>210350</b>	Mariolisa		11 9.3 346°81	7°3/ 4.3	18		<b>314400</b>	2005 <i>UD</i> <sub>208</sub>		11 9.3 109°81	0°5/ 8.9	18	
10 8	3 18.36	+ 4 21.7	1.385	2.272	14.9	19.1	10 8	3 22.35	+16 41.1	2.081	2.936	12.0	21.5
10 18	3 14.32	+ 2 38.4	1.329	2.265	11.3	18.9	10 18	3 16.60	+16 23.8	2.013	2.940	8.7	21.3
10 28	3 7.96	+ 0 57.1	1.296	2.259	8.2	18.7	10 28	3 9.04	+16 0.3	1.971	2.943	4.9	21.0
11 7	3 0.22	- 0 32.2	1.287	2.253	7.4	18.6	11 7	3 0.44	+15 32.8	1.957	2.947	0.9	20.8
11 17	2 52.29	- 1 40.0	1.303	2.249	9.7	18.8	11 17	2 51.71	+15 4.7	1.971	2.950	3.3	20.9
11 27	2 45.42	- 2 19.9	1.344	2.245	13.3	19.0	11 27	2 43.80	+14 39.8	2.015	2.954	7.2	21.2
12 7	2 40.61	- 2 30.0	1.405	2.242	16.9	19.2	12 7	2 37.52	+14 21.8	2.085	2.957	10.6	21.4
12 17	2 38.44	- 2 12.3	1.484	2.240	19.9	19.4	12 17	2 33.36	+14 13.1	2.179	2.960	13.5	21.6
<b>174266</b>	2002 <i>RW</i> <sub>239</sub>		11 9.3 150°13	3°5/ 7.2	17		<b>264969</b>	2003 <i>AR</i> <sub>59</sub>		11 9.3 329°78	19°1/ 18.4	17	
10 8	3 25.91	+10 9.3	1.694	2.559	13.8	20.9	10 8	3 34.80	+49 6.6	1.027	1.799	27.0	19.2
10 18	3 19.34	+ 9 18.1	1.636	2.566	10.0	20.7	10 18	3 29.68	+51 30.1	0.968	1.792	24.5	19.0
10 28	3 10.63	+ 8 24.6	1.603	2.573	6.0	20.4	10 28	3 18.47	+53 15.2	0.922	1.786	22.0	18.8
11 7	3 0.71	+ 7 34.4	1.597	2.580	3.5	20.3	11 7	3 2.47	+54 5.1	0.891	1.780	20.0	18.7
11 17	2 50.72	+ 6 52.8	1.619	2.586	5.8	20.5	11 17	2 44.76	+53 48.7	0.877	1.775	19.1	18.6
11 27	2 41.83	+ 6 24.9	1.669	2.591	9.7	20.7	11 27	2 29.51	+52 29.1	0.880	1.771	19.6	18.7
12 7	2 34.94	+ 6 13.2	1.744	2.596	13.4	21.0	12 7	2 19.80	+50 23.9	0.901	1.767	21.5	18.8
12 17	2 30.59	+ 6 18.5	1.840	2.600	16.4	21.2	12 17	2 16.79	+47 56.2	0.937	1.764	24.0	18.9
<b>211067</b>	2002 <i>CV</i> <sub>183</sub>		11 9.3 104°36	4°0/ 7.2	18		<b>77014</b>	2001 <i>CM</i> <sub>12</sub>		11 9.3 314°55	2°0/ 10.2	18	
10 8	3 26.37	+10 0.6	1.364	2.240	15.8	20.3	10 8	3 26.90	+21 49.5	1.364	2.224	16.8	19.1
10 18	3 20.03	+ 9 8.8	1.313	2.249	11.5	20.1	10 18	3 20.90	+21 59.9	1.296	2.220	12.5	18.8
10 28	3 11.14	+ 8 15.0	1.285	2.257	6.9	19.8	10 28	3 11.92	+21 57.0	1.248	2.217	7.6	18.6
11 7	3 0.81	+ 7 25.7	1.282	2.266	4.0	19.7	11 7	3 1.04	+21 40.9	1.226	2.214	2.7	18.3
11 17	2 50.44	+ 6 47.4	1.306	2.275	6.7	19.9	11 17	2 49.76	+21 14.6	1.230	2.210	4.3	18.4
11 27	2 41.43	+ 6 25.4	1.356	2.283	11.1	20.1	11 27	2 39.74	+20 43.9	1.260	2.207	9.4	18.6
12 7	2 34.81	+ 6 22.4	1.429	2.291	15.2	20.4	12 7	2 32.30	+20 16.0	1.313	2.205	14.2	18.9
12 17	2 31.15	+ 6 38.3	1.522	2.299	18.6	20.7	12 17	2 28.18	+19 56.8	1.388	2.202	18.2	19.2
<b>493430</b>	2014 <i>WH</i> <sub>315</sub>		11 9.3 1°78	4°1/ 6.7	18		<b>401718</b>	2013 <i>HB</i> <sub>119</sub>		11 9.3 324°82	0°6/ 8.9	17	
10 8	3 21.19	+ 4 57.7	2.129	2.992	11.4	20.5	10 8	3 22.28	+16 30.0	1.900	2.760	12.8	21.5
10 18	3 15.67	+ 4 35.2	2.065	2.992	8.5	20.3	10 18	3 16.76	+16 13.9	1.829	2.757	9.2	21.2
10 28	3 8.48	+ 4 16.0	2.027	2.991	5.6	20.2	10 28	3 9.23	+15 51.2	1.781	2.754	5.2	21.0
11 7	3 0.32	+ 4 3.7	2.016	2.992	4.1	20.1	11 7	3 0.50	+15 24.4	1.761	2.751	1.0	20.7
11 17	2 52.03	+ 4 1.4	2.034	2.992	5.7	20.2	11 17	2 51.55	+14 56.8	1.769	2.749	3.6	20.9
11 27	2 44.50	+ 4 11.4	2.080	2.993	8.6	20.4	11 27	2 43.47	+14 32.8	1.806	2.746	7.7	21.1
12 7	2 38.46	+ 4 34.5	2.152	2.993	11.6	20.6	12 7	2 37.12	+14 16.3	1.869	2.744	11.5	21.4
12 17	2 34.41	+ 5 10.1	2.246	2.995	14.1	20.7	12 17	2 33.09	+14 10.0	1.954	2.741	14.7	21.6
<b>223364</b>	2003 <i>SG</i> <sub>17</sub>		11 9.3 342°34	6°8/ 11.9	17		<b>441916</b>	2010 <i>GO</i> <sub>119</sub>		11 9.3 164°98	1°3/ 10.1	18	
10 8	3 25.24	+30 2.7	1.577	2.407	16.4	19.2	10 8	3 25.00	+21 29.6	1.838	2.685	13.7	21.2
10 18	3 19.91	+31 25.2	1.494	2.390	13.2	18.9	10 18	3 18.82	+21 26.2	1.767	2.686	10.1	20.9
10 28	3 11.54	+32 33.5	1.432	2.375	9.8	18.7	10 28	3 10.44	+21 11.9	1.720	2.687	6.1	20.7
11 7	3 0.99	+33 22.5	1.395	2.360	7.2	18.5	11 7	3 0.74	+20 47.8	1.700	2.688	2.0	20.4
11 17	2 49.62	+33 49.2	1.384	2.347	7.2	18.5	11 17	2 50.82	+20 17.0	1.709	2.689	3.4	20.5
11 27	2 39.12	+33 55.1	1.399	2.335	10.0	18.6	11 27	2 41.88	+19 44.0	1.746	2.690	7.6	20.8
12 7	2 31.01	+33 46.3	1.437	2.324	13.5	18.8	12 7	2 34.87	+19 14.3	1.809	2.691	11.5	21.0
12 17	2 26.24	+33 30.5	1.497	2.314	16.9	19.0	12 17	2 30.40	+18 52.2	1.896	2.691	14.7	21.3
<b>339244</b>	2004 <i>VX</i> <sub>20</sub>		11 9.3 55°00	0°9/ 8.7	18		<b>12048</b>	1997 <i>GW</i> <sub>29</sub>		11 9.3 3°6			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>29969</b>	Amyvitha		11 9.3 325°24	1°5/ 8.3	18		<b>79426</b>	1997 QZ		11 9.3 71°09	2°7/ 7.8	18	
10 8	3 21.87	+14 12.2	1.937	2.800	12.4	18.7	10 8	3 26.21	+13 18.6	1.414	2.286	15.6	18.8
10 18	3 16.38	+13 43.6	1.868	2.799	8.9	18.5	10 18	3 19.64	+12 23.8	1.377	2.312	11.1	18.6
10 28	3 8.99	+13 10.1	1.824	2.798	5.1	18.3	10 28	3 10.78	+11 24.3	1.363	2.337	6.3	18.4
11 7	3 0.47	+12 34.9	1.808	2.796	1.6	18.0	11 7	3 0.79	+10 26.2	1.376	2.363	2.7	18.2
11 17	2 51.78	+12 2.0	1.820	2.795	4.0	18.2	11 17	2 50.98	+9 35.9	1.415	2.388	5.5	18.5
11 27	2 43.94	+11 35.7	1.860	2.794	8.0	18.4	11 27	2 42.63	+8 59.1	1.481	2.413	9.8	18.8
12 7	2 37.79	+11 19.6	1.926	2.794	11.6	18.7	12 7	2 36.60	+8 39.1	1.572	2.438	13.7	19.1
12 17	2 33.86	+11 15.5	2.015	2.793	14.6	18.9	12 17	2 33.34	+8 36.7	1.683	2.463	16.9	19.4
<b>277167</b>	2005 NQ <sub>70</sub>		11 9.3 71°60	1°6/ 8.5	18		<b>115051</b>	Safaeinili		11 9.3 42°64	7°0/ 15.7	18	
10 8	3 27.12	+15 1.0	1.373	2.243	16.1	21.0	10 8	3 23.67	+39 55.0	2.033	2.805	15.3	18.7
10 18	3 20.44	+14 28.4	1.332	2.266	11.5	20.8	10 18	3 17.93	+39 57.6	1.966	2.815	12.7	18.6
10 28	3 11.30	+13 49.2	1.313	2.288	6.4	20.6	10 28	3 9.92	+39 36.2	1.919	2.825	10.0	18.4
11 7	3 0.88	+13 8.0	1.321	2.310	1.8	20.3	11 7	3 0.65	+38 49.7	1.896	2.836	7.8	18.3
11 17	2 50.58	+12 30.3	1.355	2.332	4.8	20.6	11 17	2 51.31	+37 39.9	1.899	2.847	7.0	18.3
11 27	2 41.77	+12 1.7	1.416	2.354	9.6	20.9	11 27	2 43.14	+36 12.8	1.931	2.858	8.2	18.4
12 7	2 35.41	+11 46.4	1.501	2.376	13.7	21.2	12 7	2 37.07	+34 37.2	1.988	2.869	10.6	18.6
12 17	2 31.97	+11 45.8	1.606	2.398	17.1	21.5	12 17	2 33.62	+33 1.6	2.070	2.881	13.1	18.7
<b>116155</b>	2003 WW <sub>168</sub>		11 9.3 183°79	4°1/ 6.8	17		<b>269494</b>	2009 UU <sub>31</sub>		11 9.3 289°35	0°1/ 9.3	17	
10 8	3 26.11	+8 16.2	1.740	2.604	13.5	20.0	10 8	3 19.73	+19 34.9	2.224	3.075	11.5	20.5
10 18	3 19.54	+7 24.8	1.676	2.605	9.9	19.7	10 18	3 14.78	+18 56.3	2.136	3.060	8.4	20.3
10 28	3 10.81	+6 32.9	1.636	2.605	6.2	19.5	10 28	3 8.09	+18 8.0	2.073	3.044	4.8	20.0
11 7	3 0.82	+5 45.7	1.624	2.604	4.1	19.4	11 7	3 0.32	+17 12.6	2.038	3.028	0.9	19.7
11 17	2 50.67	+5 8.7	1.641	2.603	6.3	19.5	11 17	2 52.31	+16 14.1	2.032	3.012	3.1	19.8
11 27	2 41.54	+4 46.6	1.685	2.601	10.0	19.8	11 27	2 44.97	+15 17.6	2.056	2.996	6.9	20.1
12 7	2 34.35	+4 41.7	1.754	2.599	13.6	20.0	12 7	2 39.09	+14 28.1	2.107	2.981	10.4	20.3
12 17	2 29.68	+4 54.2	1.843	2.596	16.7	20.2	12 17	2 35.21	+13 49.3	2.181	2.965	13.4	20.4
<b>520698</b>	2014 QV <sub>464</sub>		11 9.3 144°97	1°4/ 8.3	18		<b>305417</b>	2008 CS <sub>121</sub>		11 9.3 327°40	5°0/ 11.6	17	
10 8	3 22.34	+12 45.9	2.563	3.414	10.1	21.2	10 8	3 24.21	+27 33.4	1.509	2.352	16.4	20.4
10 18	3 16.28	+12 33.2	2.497	3.422	7.3	21.0	10 18	3 19.12	+28 17.4	1.425	2.334	12.8	20.2
10 28	3 8.76	+12 18.2	2.457	3.428	4.1	20.8	10 28	3 11.06	+28 46.0	1.362	2.317	8.9	19.9
11 7	3 0.42	+12 2.9	2.447	3.435	1.4	20.6	11 7	3 0.95	+28 56.4	1.324	2.300	5.5	19.7
11 17	2 51.99	+11 49.6	2.467	3.441	3.3	20.8	11 17	2 50.15	+28 48.2	1.311	2.284	5.7	19.6
11 27	2 44.23	+11 41.0	2.517	3.447	6.4	21.0	11 27	2 40.31	+28 25.3	1.324	2.269	9.4	19.8
12 7	2 37.80	+11 39.2	2.596	3.453	9.3	21.2	12 7	2 32.84	+27 54.7	1.361	2.255	13.6	20.0
12 17	2 33.13	+11 45.5	2.698	3.458	11.7	21.4	12 17	2 28.64	+27 24.4	1.419	2.242	17.4	20.2
<b>154143</b>	2002 FJ <sub>2</sub>		11 9.3 119°48	2°1/ 11.1	18		<b>349865</b>	2009 DG <sub>53</sub>		11 9.3 210°07	1°9/ 10.5	18	
10 8	3 23.99	+25 14.1	2.792	3.610	10.4	20.3	10 8	3 24.95	+23 2.4	1.934	2.774	13.4	21.5
10 18	3 17.40	+25 18.6	2.728	3.629	7.8	20.1	10 18	3 18.78	+23 5.7	1.858	2.772	10.0	21.3
10 28	3 9.36	+25 13.5	2.691	3.647	5.0	20.0	10 28	3 10.44	+22 57.5	1.806	2.770	6.2	21.1
11 7	3 0.53	+24 59.1	2.683	3.665	2.5	19.8	11 7	3 0.78	+22 38.5	1.782	2.768	2.5	20.8
11 17	2 51.65	+24 37.1	2.706	3.682	2.8	19.9	11 17	2 50.86	+22 10.8	1.786	2.766	3.4	20.9
11 27	2 43.49	+24 10.6	2.759	3.699	5.4	20.1	11 27	2 41.84	+21 38.8	1.819	2.763	7.3	21.1
12 7	2 36.70	+23 43.1	2.841	3.715	8.0	20.3	12 7	2 34.68	+21 8.0	1.879	2.760	11.1	21.4
12 17	2 31.71	+23 18.1	2.949	3.731	10.3	20.5	12 17	2 30.00	+20 42.9	1.961	2.758	14.3	21.6
<b>88001</b>	2000 UQ <sub>37</sub>		11 9.3 333°65	0°8/ 8.8	18		<b>400505</b>	2008 KN <sub>27</sub>		11 9.3 32°94	6°2/ 7.4	14 C	
10 8	3 20.76	+16 40.1	1.846	2.709	12.9	19.3	10 8	3 27.97	+0 39.6	1.401	2.270	15.9	19.5
10 18	3 15.73	+16 11.0	1.773	2.704	9.3	19.0	10 18	3 20.76	+0 45.8	1.376	2.301	11.9	19.3
10 28	3 8.68	+15 34.3	1.725	2.698	5.3	18.8	10 28	3 11.34	+1 2.7	1.373	2.334	8.1	19.2
11 7	3 0.43	+14 53.2	1.703	2.694	1.1	18.5	11 7	3 0.90	+1 33.5	1.396	2.367	6.2	19.2
11 17	2 51.95	+14 12.0	1.710	2.689	3.7	18.7	11 17	2 50.74	+2 19.3	1.446	2.402	7.8	19.4
11 27	2 44.34	+13 35.6	1.745	2.685	8.0	18.9	11 27	2 42.11	+3 19.3	1.522	2.437	11.0	19.6
12 7	2 38.47	+13 8.5	1.805	2.681	11.8	19.1	12 7	2 35.82	+4 31.3	1.622	2.472	14.3	19.9
12 17	2 34.92	+12 53.7	1.888	2.677	15.0	19.4	12 17	2 32.29	+5 52.1	1.743	2.508	17.0	20.2
<b>130314</b>	Williamodonnell		11 9.3 275°94	0°6/ 9.7	17		<b>246787</b>	2009 DT <sub>83</sub>		11 9.3 235°37	1°5/ 8.3	18	
10 8	3 23.34	+18 34.1	2.304	3.149	11.4	19.4	10 8	3 22.59	+14 22.0	1.955	2.816	12.4	21.3
10 18	3 17.36	+18 45.0	2.219	3.139	8.3	19.2	10 18	3 16.93	+13 49.7	1.882	2.811	9.0	21.1
10 28	3 9.55	+18 49.9	2.160	3.129	4.8	19.0	10 28	3 9.33	+13 11.9	1.834	2.807	5.1	20.9
11 7	3 0.60	+18 49.4	2.129	3.119	1.2	18.7	11 7	3 0.57	+12 32.1	1.813	2.802	1.6	20.6
11 17	2 51.35	+18 45.1	2.128	3.109	2.9	18.8	11 17	2 51.60	+11 54.3	1.821	2.797	4.1	20.8
11 27	2 42.75	+18 39.6	2.157	3.099	6.6	19.0	11 27	2 43.47	+11 23.3	1.858	2.791	8.0	21.0
12 7	2 35.63	+18 36.2	2.214	3.088	10.0	19.2	12 7	2 37.02	+11 2.6	1.920	2.786	11.7	21.3
12 17	2 30.56	+18 37.6	2.294	3.078	12.9	19.4	12 17	2 32.82	+10 54.7	2.005	2.781	14.7	21.5
<b>261681</b>	2005 YX <sub>188</sub>		11 9.3 270°81	0°3/ 9.5	18		<b>31427</b>	1999 BS <sub>5</sub>		11 9.3 225°64	0°2/ 9.5	18 R	
10 8	3 21.13	+19 14.2	2.360	3.207	11.1	21.3	10 8	3 25.16	+19 19.6	1.865	2.716	13.4	19.7
10 18	3 15.74	+18 54.5	2.269	3.190	8.1	21.1	10 18	3 18.97	+18 56.6	1.785	2.708	9.8	19.5
10 28	3 8.63	+18 26.7	2.202	3.172	4.7	20.8	10 28	3 10.58	+18 23.4	1.729	2.699	5.7	19.2
11 7	3 0.42	+17 52.7	2.164	3.154	1.0	20.5	11 7	3 0.82	+17 42.3	1.700	2.690	1.2	18.9
11 17	2 51.94	+17 15.2	2.156	3.136	2.9	20.6	11 17	2 50.77	+16 57.2	1.701	2.681	3.5	19.0
11 27	2 44.06	+16 38.3	2.177	3.117	6.6	20.9	11 27	2 41.62	+16 13.4	1.730	2.671	7.9	19.3
12 7	2 37.58	+16 6.0	2.226	3.099	10.0	21.0	12 7	2 34.33	+15 36.4	1.786	2.661	11.9	19.5
12 17	2 33.06	+15 41.8	2.298	3.080	12.9	21.2	12 17	2 29.55	+15 10.3	1.864	2.650	15.3	19.7
<b>321411</b>	2009 QM <sub>6</sub>		11 9.3 58°68	0°2/ 9.5	18		<b>372983</b>	2011 CP <sub>59</sub>		11 9.3 192°63	0°4/ 9.0	17	
10 8	3 22.75	+18 46.6	1.912	2.766	12.9	20.9	10 8						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>488403</b>	2016 <i>WH</i> <sub>54</sub>	11	9.3 349°27	0°2/ 9.2 18			<b>401197</b>	2011 <i>WQ</i> <sub>142</sub>	11	9.3 155°90	0°4/ 9.1 18		
10 8	3 21.68	+18 28.1	1.375	2.249	15.9	20.4	10 8	3 23.61	+16 58.1	1.899	2.755	12.9	21.0
10 18	3 16.97	+18 5.0	1.309	2.244	11.6	20.1	10 18	3 17.72	+16 43.7	1.829	2.756	9.4	20.7
10 28	3 9.63	+17 30.5	1.265	2.239	6.6	19.9	10 28	3 9.81	+16 22.4	1.784	2.757	5.3	20.5
11 7	3 0.66	+16 48.0	1.245	2.235	1.2	19.5	11 7	3 0.70	+15 56.4	1.767	2.757	1.0	20.2
11 17	2 51.39	+16 2.8	1.251	2.232	4.2	19.7	11 17	2 51.40	+15 29.2	1.778	2.758	3.5	20.4
11 27	2 43.28	+15 21.7	1.283	2.230	9.4	20.0	11 27	2 43.00	+15 4.9	1.818	2.758	7.7	20.7
12 7	2 37.48	+14 50.9	1.339	2.228	14.1	20.3	12 7	2 36.39	+14 47.6	1.884	2.759	11.4	20.9
12 17	2 34.64	+14 34.5	1.415	2.228	18.0	20.5	12 17	2 32.13	+14 40.1	1.973	2.759	14.6	21.1
<b>219277</b>	2000 <i>BO</i> <sub>39</sub>	11	9.3	4°14 1°3/10.1 18			<b>329860</b>	2004 <i>VH</i> <sub>29</sub>	11	9.3 184°74	1°5/ 8.5 18		
10 8	3 24.98	+21 41.5	1.398	2.260	16.4	20.3	10 8	3 25.22	+11 23.0	2.311	3.162	11.1	20.5
10 18	3 19.36	+21 27.3	1.333	2.260	12.1	20.0	10 18	3 18.58	+11 33.5	2.238	3.162	8.0	20.3
10 28	3 10.97	+20 58.7	1.290	2.260	7.2	19.8	10 28	3 10.20	+11 43.2	2.191	3.162	4.6	20.1
11 7	3 0.91	+20 17.6	1.271	2.260	2.1	19.4	11 7	3 0.77	+11 53.6	2.174	3.162	1.6	19.9
11 17	2 50.59	+19 28.6	1.279	2.260	4.0	19.6	11 17	2 51.16	+12 6.3	2.187	3.162	3.6	20.0
11 27	2 41.54	+18 39.1	1.313	2.261	9.1	19.9	11 27	2 42.26	+12 23.1	2.230	3.161	7.0	20.3
12 7	2 34.93	+17 56.3	1.372	2.262	13.8	20.1	12 7	2 34.86	+12 45.5	2.301	3.161	10.2	20.5
12 17	2 31.42	+17 25.8	1.451	2.263	17.6	20.4	12 17	2 29.47	+13 14.5	2.396	3.160	12.9	20.7
<b>236306</b>	2006 <i>BM</i> <sub>1</sub>	11	9.3 303°73	1°6/10.2 18			<b>409708</b>	2006 <i>BN</i> <sub>144</sub>	11	9.3 278°79	2°1/11.1 17		
10 8	3 23.78	+21 52.7	1.481	2.341	15.7	21.2	10 8	3 21.04	+25 44.5	2.225	3.057	12.2	20.8
10 18	3 18.64	+21 47.4	1.397	2.322	11.8	20.9	10 18	3 15.80	+25 23.1	2.139	3.047	9.2	20.6
10 28	3 10.71	+21 28.2	1.334	2.304	7.1	20.6	10 28	3 8.71	+24 48.3	2.076	3.036	5.9	20.4
11 7	3 0.90	+20 56.2	1.297	2.285	2.4	20.2	11 7	3 0.49	+24 1.1	2.042	3.026	2.7	20.1
11 17	2 50.53	+20 14.7	1.286	2.267	4.1	20.3	11 17	2 52.05	+23 4.8	2.036	3.015	3.2	20.2
11 27	2 41.14	+19 29.9	1.302	2.250	9.2	20.5	11 27	2 44.35	+22 4.1	2.060	3.005	6.6	20.4
12 7	2 34.02	+18 49.4	1.341	2.232	14.0	20.8	12 7	2 38.22	+21 5.0	2.111	2.994	10.0	20.5
12 17	2 30.00	+18 19.3	1.402	2.215	18.1	21.0	12 17	2 34.20	+20 12.5	2.186	2.984	13.0	20.7
<b>180406</b>	2004 <i>BJ</i> <sub>29</sub>	11	9.3 168°55	1°1/10.0 18			<b>121939</b>	2000 <i>EE</i> <sub>13</sub>	11	9.3 202°23	6°7/ 2.2 18		
10 8	3 27.59	+21 19.3	1.886	2.728	13.6	20.4	10 8	3 19.26	- 9 15.9	3.107	3.933	9.2	19.9
10 18	3 20.63	+21 9.1	1.815	2.732	10.0	20.2	10 18	3 13.91	-10 13.1	3.049	3.929	7.8	19.8
10 28	3 11.47	+20 47.8	1.769	2.736	6.0	20.0	10 28	3 7.40	-11 0.8	3.018	3.923	6.8	19.8
11 7	3 1.00	+20 16.8	1.751	2.739	1.8	19.7	11 7	3 0.24	-11 35.0	3.015	3.918	6.8	19.8
11 17	2 50.36	+19 39.4	1.761	2.742	3.4	19.8	11 17	2 53.00	-11 52.7	3.039	3.912	7.7	19.8
11 27	2 40.74	+19 0.5	1.802	2.744	7.6	20.1	11 27	2 46.27	-11 52.4	3.090	3.905	9.2	19.9
12 7	2 33.09	+18 25.7	1.868	2.745	11.4	20.4	12 7	2 40.56	-11 34.4	3.164	3.898	10.7	20.0
12 17	2 28.00	+17 59.3	1.958	2.745	14.6	20.6	12 17	2 36.26	-11 0.3	3.259	3.891	12.2	20.1
<b>368848</b>	2006 <i>EF</i> <sub>60</sub>	11	9.3 279°00	1°7/10.6 17			<b>490970</b>	2011 <i>EA</i> <sub>9</sub>	11	9.3 294°44	8°3/ 2.2 18		
10 8	3 21.65	+23 21.3	2.280	3.118	11.7	21.5	10 8	3 19.35	- 7 12.4	2.201	3.049	11.7	20.8
10 18	3 16.21	+23 16.2	2.192	3.105	8.8	21.3	10 18	3 14.39	- 8 26.5	2.143	3.039	9.8	20.7
10 28	3 8.95	+23 0.6	2.129	3.092	5.4	21.0	10 28	3 7.83	- 9 29.7	2.109	3.029	8.5	20.6
11 7	3 0.53	+22 35.3	2.094	3.080	2.2	20.8	11 7	3 0.34	-10 15.7	2.101	3.019	8.5	20.6
11 17	2 51.84	+22 2.4	2.087	3.067	3.0	20.8	11 17	2 52.69	-10 39.8	2.119	3.010	9.7	20.7
11 27	2 43.82	+21 25.9	2.111	3.054	6.5	21.0	11 27	2 45.74	-10 39.8	2.162	3.000	11.7	20.8
12 7	2 37.31	+20 50.4	2.161	3.042	9.9	21.2	12 7	2 40.18	-10 16.2	2.227	2.991	13.8	20.9
12 17	2 32.87	+20 20.2	2.235	3.029	12.8	21.4	12 17	2 36.50	- 9 31.4	2.311	2.981	15.8	21.1
<b>429164</b>	2009 <i>VL</i> <sub>21</sub>	11	9.3 56°07	2°3/ 8.2 18			<b>310205</b>	2011 <i>SK</i> <sub>132</sub>	11	9.3 33°47	0°8/ 9.7 18		
10 8	3 26.47	+13 21.6	1.269	2.146	16.7	20.7	10 8	3 26.44	+18 16.7	1.625	2.483	14.7	20.4
10 18	3 20.15	+12 53.3	1.229	2.166	11.9	20.4	10 18	3 20.08	+18 39.8	1.563	2.488	10.7	20.1
10 28	3 11.23	+12 20.2	1.212	2.187	6.7	20.2	10 28	3 11.28	+18 55.5	1.524	2.494	6.2	19.9
11 7	3 0.94	+11 47.2	1.219	2.207	2.4	20.0	11 7	3 1.02	+19 4.3	1.511	2.501	1.6	19.6
11 17	2 50.75	+11 19.8	1.252	2.228	5.3	20.3	11 17	2 50.53	+19 7.7	1.527	2.508	3.6	19.8
11 27	2 42.10	+11 3.0	1.311	2.250	10.2	20.6	11 27	2 41.14	+19 9.1	1.570	2.515	8.2	20.1
12 7	2 36.00	+11 0.2	1.393	2.271	14.5	20.9	12 7	2 33.91	+19 12.6	1.639	2.522	12.3	20.3
12 17	2 32.93	+11 12.3	1.496	2.292	17.9	21.2	12 17	2 29.47	+19 21.5	1.729	2.530	15.7	20.6
<b>384802</b>	2012 <i>QN</i> <sub>33</sub>	11	9.3 115°89	3°8/11.7 18			<b>162859</b>	2001 <i>DW</i> <sub>76</sub>	11	9.3 298°86	3°8/ 6.9 18		
10 8	3 27.33	+28 9.1	1.708	2.537	15.4	21.5	10 8	3 21.53	+10 18.4	1.627	2.501	13.8	20.1
10 18	3 20.68	+28 10.4	1.645	2.547	11.8	21.3	10 18	3 16.53	+ 9 18.9	1.553	2.488	10.0	19.9
10 28	3 11.56	+27 54.0	1.604	2.558	7.9	21.1	10 28	3 9.29	+ 8 15.4	1.503	2.475	6.1	19.6
11 7	3 1.02	+27 19.9	1.588	2.567	4.4	20.9	11 7	3 0.64	+ 7 14.0	1.479	2.462	3.8	19.5
11 17	2 50.36	+26 31.0	1.601	2.577	4.5	21.0	11 17	2 51.70	+ 6 21.3	1.483	2.449	6.3	19.6
11 27	2 40.93	+25 33.7	1.642	2.586	8.0	21.2	11 27	2 43.65	+ 5 43.4	1.513	2.437	10.3	19.8
12 7	2 33.75	+24 35.6	1.709	2.595	11.7	21.4	12 7	2 37.52	+ 5 24.1	1.567	2.424	14.3	20.0
12 17	2 29.43	+23 43.7	1.798	2.604	15.0	21.7	12 17	2 33.93	+ 5 24.6	1.640	2.412	17.7	20.2
<b>309987</b>	2009 <i>HQ</i> <sub>85</sub>	11	9.3 135°84	1°7/ 8.3 18			<b>402349</b>	2005 <i>UR</i> <sub>527</sub>	11	9.3 43°81	0°1/ 9.3 18		
10 8	3 24.67	+12 25.6	1.977	2.835	12.4	21.1	10 8	3 22.65	+17 55.8	1.797	2.656	13.4	20.9
10 18	3 18.36	+12 17.7	1.911	2.839	8.9	20.9	10 18	3 17.04	+17 43.7	1.739	2.667	9.7	20.7
10 28	3 10.13	+12 7.3	1.870	2.842	5.1	20.7	10 28	3 9.41	+17 23.9	1.706	2.678	5.5	20.4
11 7	3 0.76	+11 56.9	1.856	2.845	1.8	20.4	11 7	3 0.64	+16 58.7	1.699	2.689	1.0	20.2
11 17	2 51.22	+11 49.2	1.872	2.848	4.0	20.6	11 17	2 51.79	+16 31.5	1.720	2.701	3.4	20.4
11 27	2 42.57	+11 47.4	1.917	2.850	7.9	20.8	11 27	2 43.94	+16 6.7	1.770	2.713	7.6	20.7
12 7	2 35.63	+11 53.7	1.989	2.853	11.4	21.1	12 7	2 37.95	+15 48.6	1.845	2.725	11.4	20.9
12 17	2 30.96	+12 9.7	2.082	2.855	14.3	21.3	12 17	2 34.35	+15 39.9	1.943	2.737	14.5	21.1
<b>408591</b>	2013 <i>LA</i> <sub>32</sub>	11	9.3 29°20	6°3/ 5.3 18			<b>446746</b>	2015 <i>PW</i> <sub>2</sub>	11	9.3 100°99</			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>515616</b>	2014 <i>KN</i> <sub>67</sub>		11 9.3 171°26	3°6/ 7.1	18		<b>194707</b>	2001 <i>XK</i> <sub>237</sub>		11 9.3 294°05	1°3/10.0	18	
10 8	3 23.08	+ 8 19.3	1.891	2.757	12.6	21.3	10 8	3 24.84	+21 0.8	1.546	2.404	15.3	20.2
10 18	3 17.27	+ 7 44.4	1.827	2.757	9.2	21.1	10 18	3 19.28	+20 58.7	1.465	2.390	11.4	19.9
10 28	3 9.54	+ 7 9.5	1.788	2.757	5.6	20.9	10 28	3 11.04	+20 44.6	1.407	2.376	6.8	19.6
11 7	3 0.68	+ 6 39.1	1.776	2.758	3.6	20.8	11 7	3 1.05	+20 19.4	1.374	2.363	2.1	19.3
11 17	2 51.68	+ 6 17.3	1.793	2.758	5.6	20.9	11 17	2 50.57	+19 46.1	1.369	2.350	3.9	19.4
11 27	2 43.56	+ 6 7.6	1.838	2.758	9.1	21.1	11 27	2 41.08	+19 10.6	1.390	2.337	8.9	19.7
12 7	2 37.16	+ 6 12.1	1.907	2.758	12.4	21.3	12 7	2 33.80	+18 39.3	1.436	2.324	13.4	19.9
12 17	2 33.01	+ 6 30.9	1.999	2.758	15.3	21.6	12 17	2 29.50	+18 17.4	1.503	2.311	17.3	20.1
<b>211279</b>	2002 <i>RN</i> <sub>137</sub>		11 9.3 190°95	11°6/12.2	18		<b>410109</b>	2007 <i>EX</i> <sub>191</sub>		11 9.4 97°24	4°3/ 5.4	18	
10 8	3 47.02	+35 42.8	1.281	2.074	21.5	20.1	10 8	3 19.34	+ 6 57.9	2.221	3.086	10.9	21.1
10 18	3 37.31	+38 10.8	1.210	2.074	18.0	19.8	10 18	3 14.28	+ 5 34.1	2.165	3.093	8.0	20.9
10 28	3 22.36	+40 18.4	1.160	2.073	14.5	19.6	10 28	3 7.72	+ 4 10.6	2.136	3.101	5.3	20.7
11 7	3 3.35	+41 50.7	1.133	2.071	12.0	19.5	11 7	3 0.35	+ 2 53.0	2.136	3.108	4.3	20.7
11 17	2 42.71	+42 37.2	1.132	2.068	12.0	19.5	11 17	2 52.94	+ 1 46.9	2.165	3.115	6.1	20.8
11 27	2 23.64	+42 38.9	1.157	2.065	14.3	19.6	11 27	2 46.29	+ 0 56.6	2.222	3.122	8.8	21.0
12 7	2 8.80	+42 8.5	1.204	2.060	17.8	19.8	12 7	2 41.04	+ 0 24.6	2.305	3.129	11.5	21.2
12 17	1 59.52	+41 23.0	1.269	2.055	21.1	20.0	12 17	2 37.62	+ 0 10.9	2.408	3.136	13.9	21.4
<b>384317</b>	2009 <i>SJ</i> <sub>202</sub>		11 9.3 0°90	3°5/ 7.7	16		<b>371301</b>	2006 <i>FU</i> <sub>3</sub>		11 9.4 146°94	0°2/ 9.2	18	
10 8	3 18.34	+12 43.5	0.957	1.861	18.4	20.3	10 8	3 20.59	+17 41.7	2.700	3.545	9.9	22.0
10 18	3 15.17	+11 59.5	0.907	1.857	13.3	20.0	10 18	3 15.05	+17 21.7	2.630	3.551	7.1	21.9
10 28	3 8.84	+11 8.9	0.876	1.854	7.7	19.7	10 28	3 8.14	+16 56.1	2.587	3.557	4.0	21.7
11 7	3 0.60	+10 19.5	0.866	1.854	3.5	19.5	11 7	3 0.44	+16 26.7	2.572	3.562	0.8	21.4
11 17	2 52.07	+ 9 39.6	0.879	1.856	6.9	19.7	11 17	2 52.66	+15 56.1	2.588	3.567	2.6	21.6
11 27	2 45.04	+ 9 17.0	0.914	1.859	12.5	20.0	11 27	2 45.51	+15 27.4	2.635	3.572	5.7	21.8
12 7	2 40.80	+ 9 15.9	0.968	1.864	17.6	20.3	12 7	2 39.60	+15 3.7	2.709	3.577	8.6	22.0
12 17	2 40.02	+ 9 36.7	1.040	1.871	21.8	20.6	12 17	2 35.36	+14 47.3	2.808	3.581	11.0	22.2
<b>33798</b>	1999 <i>TO</i> <sub>95</sub>		11 9.3 203°43	0°1/ 9.4	18		<b>516563</b>	2007 <i>BW</i> <sub>69</sub>		11 9.4 308°08	0°3/ 9.2	18	
10 8	3 23.79	+17 6.2	2.282	3.129	11.4	19.1	10 8	3 23.49	+17 52.9	1.309	2.184	16.4	21.7
10 18	3 17.64	+17 9.5	2.206	3.128	8.3	18.9	10 18	3 18.84	+17 34.6	1.219	2.154	12.2	21.3
10 28	3 9.73	+17 7.4	2.156	3.126	4.7	18.6	10 28	3 11.08	+17 4.4	1.150	2.125	7.1	21.0
11 7	3 0.74	+17 1.2	2.134	3.124	0.9	18.4	11 7	3 1.11	+16 24.7	1.105	2.095	1.4	20.5
11 17	2 51.55	+16 52.7	2.142	3.122	2.9	18.5	11 17	2 50.31	+15 40.4	1.086	2.067	4.8	20.7
11 27	2 43.07	+16 44.9	2.181	3.120	6.6	18.8	11 27	2 40.40	+14 59.0	1.091	2.038	10.7	20.9
12 7	2 36.10	+16 40.7	2.246	3.118	10.0	19.0	12 7	2 32.92	+14 27.9	1.120	2.010	16.1	21.1
12 17	2 31.18	+16 42.6	2.336	3.115	12.8	19.2	12 17	2 28.84	+14 12.9	1.167	1.983	20.8	21.3
<b>50337</b>	2000 <i>CD</i> <sub>61</sub>		11 9.3 287°35	1°5/ 8.5	18		<b>415521</b>	2014 <i>QP</i> <sub>25</sub>		11 9.4 144°89	3°1/12.1	18	
10 8	3 24.08	+15 46.3	1.477	2.347	15.2	19.9	10 8	3 23.31	+29 6.9	2.599	3.408	11.3	22.0
10 18	3 18.77	+15 10.6	1.395	2.328	11.1	19.6	10 18	3 17.15	+29 2.0	2.526	3.416	8.7	21.9
10 28	3 10.76	+14 25.4	1.335	2.310	6.3	19.3	10 28	3 9.38	+28 44.2	2.478	3.424	5.9	21.7
11 7	3 0.99	+13 34.6	1.301	2.291	1.7	19.0	11 7	3 0.69	+28 13.6	2.457	3.432	3.5	21.6
11 17	2 50.71	+12 44.1	1.294	2.272	4.9	19.2	11 17	2 51.89	+27 32.3	2.467	3.440	3.5	21.6
11 27	2 41.39	+12 0.9	1.314	2.253	10.0	19.4	11 27	2 43.86	+26 44.1	2.506	3.446	5.8	21.7
12 7	2 34.27	+11 31.0	1.357	2.235	14.8	19.6	12 7	2 37.31	+25 53.9	2.574	3.453	8.6	21.9
12 17	2 30.13	+11 18.0	1.420	2.216	18.8	19.9	12 17	2 32.69	+25 6.5	2.668	3.459	11.0	22.1
<b>367813</b>	2011 <i>AE</i> <sub>53</sub>		11 9.3 235°56	3°8/12.2	17		<b>260699</b>	2005 <i>JD</i> <sub>119</sub>		11 9.4 163°91	2°5/ 7.6	18	
10 8	3 23.22	+29 40.9	2.389	3.200	12.1	21.0	10 8	3 22.39	+11 58.0	1.996	2.858	12.1	21.0
10 18	3 17.35	+29 55.9	2.308	3.198	9.5	20.9	10 18	3 16.70	+11 14.2	1.930	2.860	8.7	20.8
10 28	3 9.61	+29 57.4	2.252	3.196	6.6	20.7	10 28	3 9.20	+10 27.0	1.890	2.862	5.1	20.6
11 7	3 0.73	+29 44.8	2.222	3.193	4.2	20.5	11 7	3 0.66	+ 9 40.5	1.874	2.864	2.5	20.4
11 17	2 51.60	+29 19.1	2.221	3.191	4.2	20.5	11 17	2 51.99	+ 8 59.2	1.894	2.865	4.6	20.6
11 27	2 43.22	+28 43.9	2.250	3.188	6.5	20.7	11 27	2 44.17	+ 8 27.7	1.940	2.866	8.2	20.8
12 7	2 36.41	+28 4.1	2.306	3.186	9.4	20.9	12 7	2 37.99	+ 8 8.8	2.011	2.867	11.6	21.0
12 17	2 31.74	+27 24.8	2.386	3.184	12.0	21.0	12 17	2 33.96	+ 8 4.2	2.104	2.868	14.5	21.2
<b>363799</b>	2005 <i>LX</i> <sub>10</sub>		11 9.3 130°24	2°3/ 7.4	18		<b>175212</b>	2005 <i>GD</i> <sub>30</sub>		11 9.4 222°47	1°9/ 8.4	18	
10 8	3 22.25	+12 32.1	2.238	3.096	11.2	21.7	10 8	3 27.45	+13 17.2	1.534	2.400	15.0	20.4
10 18	3 16.34	+11 34.4	2.181	3.108	8.0	21.5	10 18	3 20.96	+12 59.8	1.464	2.395	10.9	20.1
10 28	3 8.87	+10 33.1	2.149	3.121	4.6	21.3	10 28	3 11.89	+12 37.7	1.418	2.391	6.2	19.8
11 7	3 0.56	+ 9 32.5	2.147	3.133	2.3	21.2	11 7	3 1.21	+12 14.3	1.397	2.386	2.1	19.6
11 17	2 52.24	+ 8 37.2	2.175	3.144	4.3	21.4	11 17	2 50.20	+11 53.8	1.404	2.381	4.9	19.7
11 27	2 44.75	+ 7 51.6	2.232	3.155	7.6	21.6	11 27	2 40.29	+11 41.0	1.439	2.375	9.7	20.0
12 7	2 38.76	+ 7 18.9	2.316	3.166	10.6	21.8	12 7	2 32.61	+11 39.6	1.498	2.369	14.0	20.2
12 17	2 34.69	+ 7 0.3	2.423	3.176	13.1	22.0	12 17	2 27.84	+11 51.5	1.578	2.363	17.7	20.5
<b>6951</b>	1985 <i>DW</i> <sub>1</sub>		11 9.3 265°75	0°1/ 9.4	18		<b>437995</b>	2003 <i>UR</i> <sub>51</sub>		11 9.4 80°42	7°9/15.1	18	
10 8	3 21.30	+18 25.6	2.277	3.127	11.3	18.0	10 8	3 29.98	+38 49.8	1.772	2.550	16.9	20.5
10 18	3 15.90	+18 7.9	2.195	3.118	8.2	17.7	10 18	3 22.82	+39 25.4	1.715	2.569	14.0	20.3
10 28	3 8.76	+17 42.9	2.138	3.108	4.7	17.5	10 28	3 12.89	+39 36.0	1.679	2.588	11.0	20.2
11 7	3 0.57	+17 12.4	2.109	3.099	0.9	17.2	11 7	3 1.38	+39 18.7	1.666	2.606	8.6	20.1
11 17	2 52.14	+16 39.4	2.109	3.089	3.0	17.4	11 17	2 49.77	+38 34.3	1.679	2.625	7.9	20.1
11 27	2 44.39	+16 7.9	2.139	3.079	6.7	17.6	11 27	2 39.60	+37 28.8	1.719	2.643	9.4	20.2
12 7	2 38.10	+15 41.5	2.196	3.070	10.1	17.8	12 7	2 32.01	+36 11.8	1.785	2.661	11.9	20.4
12 17	2 33.79	+15 23.5	2.277	3.060	13.0	18.0	12 17	2 27.58	+34 52.9	1.873	2.679	14.5	20.6
<b>40436</b>	<i>Sylviecoyau</i> d		11 9.3 51°01	2°7/10.8	18		<b>156677</b>	2002 <i>JP</i> <sub>127</sub>		11 9.4 20°22	4°3		

EPHEMERIDES

11 9.4

11 9.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>415666</b>	2014 QJ <sub>427</sub>	11 9.4 51°99	1.4°/10.3	14 C			<b>66108</b>	1998 SX <sub>34</sub>	11 9.4 51°74	10°9°/31.9	17		
10 8	3 22.82	+21 47.8	1.962	2.809	13.0	21.7	10 8	3 23.15	+ 5 58.4	0.948	1.848	18.9	18.5
10 18	3 17.07	+21 44.4	1.905	2.824	9.5	21.5	10 18	3 18.31	+ 1 50.4	0.913	1.855	14.4	18.3
10 28	3 9.42	+21 30.8	1.872	2.838	5.7	21.3	10 28	3 10.42	- 2 17.0	0.902	1.863	11.3	18.1
11 7	3 0.70	+21 8.3	1.865	2.853	1.9	21.1	11 7	3 0.91	- 5 58.4	0.916	1.871	11.7	18.2
11 17	2 51.92	+20 39.9	1.888	2.869	3.1	21.2	11 17	2 51.49	- 8 52.4	0.954	1.879	15.0	18.4
11 27	2 44.10	+20 9.8	1.939	2.884	6.9	21.5	11 27	2 43.81	-10 48.2	1.013	1.887	19.0	18.7
12 7	2 38.06	+19 42.7	2.017	2.900	10.4	21.7	12 7	2 38.98	-11 46.8	1.089	1.896	22.7	19.0
12 17	2 34.28	+19 22.2	2.118	2.915	13.3	21.9	12 17	2 37.48	-11 56.6	1.179	1.905	25.6	19.2
<b>226512</b>	2003 UC <sub>25</sub>	11 9.4 67°55	3°5°/11.9	18			<b>414621</b>	2009 VN <sub>5</sub>	11 9.4 9°28	2°0°/11.0	18		
10 8	3 23.83	+28 10.6	2.236	3.055	12.6	20.2	10 8	3 19.98	+26 23.6	1.935	2.774	13.4	20.1
10 18	3 17.81	+28 29.2	2.165	3.061	9.7	20.0	10 18	3 15.15	+25 34.5	1.863	2.775	10.1	19.9
10 28	3 9.88	+28 34.6	2.119	3.068	6.6	19.9	10 28	3 8.39	+24 28.7	1.815	2.777	6.3	19.7
11 7	3 0.81	+28 26.4	2.099	3.074	4.0	19.7	11 7	3 0.53	+23 8.9	1.793	2.779	2.6	19.5
11 17	2 51.55	+28 5.8	2.109	3.081	4.0	19.7	11 17	2 52.57	+21 40.5	1.801	2.781	3.2	19.5
11 27	2 43.13	+27 36.4	2.147	3.088	6.6	19.9	11 27	2 45.56	+20 10.6	1.837	2.784	7.0	19.8
12 7	2 36.38	+27 3.3	2.213	3.095	9.6	20.1	12 7	2 40.30	+18 46.7	1.900	2.787	10.7	20.0
12 17	2 31.86	+26 31.3	2.303	3.102	12.3	20.3	12 17	2 37.31	+17 34.7	1.987	2.790	13.9	20.2
<b>405694</b>	2005 UO <sub>362</sub>	11 9.4 23°62	1°8°/10.3	18			<b>396933</b>	2005 GU <sub>95</sub>	11 9.4 184°34	1°9°/10.3	18		
10 8	3 25.70	+21 4.1	1.903	2.748	13.4	20.6	10 8	3 27.82	+21 25.4	1.976	2.815	13.2	21.3
10 18	3 19.38	+21 31.1	1.833	2.750	9.9	20.4	10 18	3 20.90	+21 53.2	1.901	2.815	9.9	21.1
10 28	3 10.87	+21 49.4	1.787	2.753	6.0	20.1	10 28	3 11.75	+22 12.2	1.851	2.815	6.0	20.9
11 7	3 1.01	+21 58.8	1.768	2.755	2.3	19.9	11 7	3 1.20	+22 21.9	1.828	2.814	2.4	20.6
11 17	2 50.88	+22 0.4	1.779	2.758	3.4	20.0	11 17	2 50.35	+22 23.4	1.835	2.814	3.4	20.7
11 27	2 41.67	+21 57.2	1.818	2.762	7.3	20.2	11 27	2 40.37	+22 19.4	1.871	2.813	7.3	20.9
12 7	2 34.33	+21 53.4	1.883	2.765	11.0	20.5	12 7	2 32.26	+22 14.2	1.934	2.812	11.0	21.2
12 17	2 29.49	+21 52.8	1.971	2.769	14.2	20.7	12 17	2 26.68	+22 11.9	2.021	2.811	14.1	21.4
<b>120564</b>	1995 FD <sub>5</sub>	11 9.4 331°86	0°1°/ 9.4	18			<b>521335</b>	2015 LH <sub>44</sub>	11 9.4 136°84	1°7°/ 8.2	18		
10 8	3 23.32	+17 52.5	1.294	2.170	16.5	19.7	10 8	3 25.38	+14 2.9	1.906	2.764	12.8	22.3
10 18	3 18.48	+17 49.3	1.223	2.158	12.2	19.4	10 18	3 18.88	+13 28.1	1.847	2.774	9.2	22.1
10 28	3 10.71	+17 36.2	1.172	2.147	7.0	19.1	10 28	3 10.44	+12 48.3	1.812	2.784	5.2	21.8
11 7	3 1.01	+17 15.4	1.146	2.136	1.4	18.7	11 7	3 0.92	+12 7.2	1.806	2.794	1.8	21.6
11 17	2 50.84	+16 50.7	1.145	2.127	4.4	18.9	11 17	2 51.34	+11 29.1	1.828	2.803	4.2	21.8
11 27	2 41.80	+16 28.2	1.170	2.118	10.0	19.2	11 27	2 42.75	+10 58.5	1.880	2.812	8.1	22.1
12 7	2 35.25	+16 13.8	1.217	2.110	14.9	19.5	12 7	2 35.98	+10 38.9	1.958	2.820	11.6	22.3
12 17	2 31.95	+16 11.6	1.284	2.103	19.1	19.7	12 17	2 31.53	+10 32.1	2.058	2.828	14.6	22.5
<b>356589</b>	2011 SA <sub>259</sub>	11 9.4 49°29	0°1°/ 9.4	18			<b>23442</b>	1986 QJ <sub>2</sub>	11 9.4 121°64	1°3°/10.4	18		
10 8	3 29.08	+15 12.2	1.749	2.603	14.0	20.0	10 8	3 22.40	+22 23.4	2.518	3.352	10.9	18.6
10 18	3 21.87	+15 48.4	1.685	2.609	10.2	19.8	10 18	3 16.47	+22 16.8	2.451	3.363	8.0	18.4
10 28	3 12.30	+16 21.0	1.645	2.616	5.8	19.5	10 28	3 9.00	+22 1.3	2.409	3.373	4.8	18.3
11 7	3 1.29	+16 50.1	1.632	2.622	1.1	19.2	11 7	3 0.65	+21 38.1	2.396	3.383	1.8	18.1
11 17	2 50.03	+17 16.1	1.649	2.629	3.6	19.4	11 17	2 52.21	+21 9.4	2.413	3.392	2.6	18.1
11 27	2 39.82	+17 41.2	1.695	2.636	8.0	19.7	11 27	2 44.50	+20 38.7	2.460	3.402	5.8	18.4
12 7	2 31.68	+18 7.6	1.768	2.643	12.0	20.0	12 7	2 38.21	+20 9.8	2.535	3.411	8.8	18.6
12 17	2 26.24	+18 37.8	1.863	2.651	15.2	20.2	12 17	2 33.78	+19 45.8	2.635	3.420	11.3	18.8
<b>361888</b>	2008 FP <sub>89</sub>	11 9.4 282°47	5°0°/12.6	17			<b>71619</b>	2000 ES <sub>35</sub>	11 9.4 347°15	1°8°/ 8.1	18		
10 8	3 25.12	+31 9.3	1.940	2.753	14.4	21.4	10 8	3 18.40	+15 5.2	1.727	2.599	13.2	18.2
10 18	3 19.24	+31 31.1	1.853	2.742	11.5	21.1	10 18	3 14.18	+14 15.5	1.656	2.592	9.5	18.0
10 28	3 10.94	+31 35.9	1.789	2.730	8.2	20.9	10 28	3 7.93	+13 18.3	1.610	2.585	5.4	17.7
11 7	3 1.05	+31 21.9	1.750	2.719	5.5	20.7	11 7	3 0.48	+12 18.3	1.590	2.579	1.8	17.5
11 17	2 50.74	+30 49.7	1.739	2.707	5.3	20.7	11 17	2 52.81	+11 21.2	1.597	2.573	4.5	17.7
11 27	2 41.30	+30 3.6	1.756	2.695	8.0	20.8	11 27	2 46.01	+10 33.1	1.632	2.569	8.7	17.9
12 7	2 33.84	+29 10.6	1.799	2.684	11.3	21.0	12 7	2 40.97	+ 9 58.6	1.691	2.565	12.6	18.1
12 17	2 29.08	+28 17.8	1.865	2.672	14.5	21.2	12 17	2 38.24	+ 9 40.2	1.772	2.562	15.8	18.3
<b>407958</b>	2012 DP <sub>17</sub>	11 9.4 251°52	1°3°/10.3	17			<b>20029</b>	1992 EB <sub>24</sub>	11 9.4 332°90	0°6°/ 8.9	18		
10 8	3 22.88	+21 38.8	2.316	3.155	11.5	21.9	10 8	3 21.14	+17 9.9	1.887	2.748	12.8	19.2
10 18	3 17.09	+21 38.2	2.231	3.145	8.5	21.7	10 18	3 16.04	+16 42.1	1.814	2.743	9.3	19.0
10 28	3 9.48	+21 28.6	2.170	3.136	5.2	21.5	10 28	3 8.96	+16 6.3	1.766	2.739	5.2	18.8
11 7	3 0.75	+21 10.9	2.138	3.126	1.8	21.2	11 7	3 0.69	+15 25.7	1.744	2.735	1.1	18.5
11 17	2 51.74	+20 47.2	2.136	3.116	2.9	21.3	11 17	2 52.21	+14 44.4	1.752	2.731	3.6	18.6
11 27	2 43.41	+20 20.9	2.163	3.106	6.4	21.5	11 27	2 44.57	+14 7.3	1.787	2.727	7.8	18.9
12 7	2 36.57	+19 56.0	2.218	3.095	9.8	21.7	12 7	2 38.66	+13 38.8	1.848	2.724	11.5	19.1
12 17	2 31.78	+19 36.3	2.296	3.085	12.7	21.9	12 17	2 35.02	+13 22.1	1.931	2.721	14.7	19.3
<b>354599</b>	2005 AM <sub>23</sub>	11 9.4 312°84	5°1°/ 6.6	18			<b>15091</b>	Howell	11 9.4 146°69	2°8°/11.9	18		
10 8	3 22.46	+ 6 48.4	1.456	2.334	14.8	20.0	10 8	3 21.73	+28 14.3	2.612	3.427	11.1	19.3
10 18	3 17.59	+ 6 6.2	1.375	2.310	11.1	19.7	10 18	3 16.06	+28 9.8	2.536	3.431	8.5	19.1
10 28	3 10.13	+ 5 24.4	1.317	2.286	7.2	19.4	10 28	3 8.82	+27 52.9	2.485	3.434	5.7	18.9
11 7	3 0.91	+ 4 49.4	1.284	2.263	5.1	19.2	11 7	3 0.65	+27 24.2	2.461	3.438	3.3	18.8
11 17	2 51.16	+ 4 27.3	1.276	2.240	7.5	19.3	11 17	2 52.35	+26 45.6	2.467	3.441	3.3	18.8
11 27	2 42.29	+ 4 23.5	1.294	2.217	11.8	19.5	11 27	2 44.76	+26 0.7	2.503	3.445	5.8	18.9
12 7	2 35.49	+ 4 40.4	1.335	2.195	16.1	19.7	12 7	2 38.58	+25 14.1	2.567	3.448	8.5	19.1
12 17	2 31.58	+ 5 17.9	1.394	2.174	19.9	19.9	12 17	2 34.27	+24 30.4	2.657	3.451	11.0	19.3
<b>257585</b>	1999 JQ <sub>36</sub>	11 9.4 152°02	0°5°/ 9.1	17			<b>3436</b>	Ibadinov	11 9.4 78°58	0°6°/ 8.9	18 R		
10 8	3 28.81	+17 6.8	1.775	2.626									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>108261</b>	2001 <i>HX</i> <sub>51</sub>		11 9.4 311°21	3°1/ 6.5 18			<b>224243</b>	2005 <i>ST</i> <sub>126</sub>		11 9.4 306°16	0°5/ 9.1 18		
10 8	3 18.84	+12 30.6	2.092	2.958	11.5	19.3	10 8	3 24.07	+17 48.7	1.457	2.325	15.5	20.5
10 18	3 14.15	+10 56.5	2.018	2.950	8.3	19.0	10 18	3 18.69	+17 19.4	1.386	2.318	11.3	20.2
10 28	3 7.79	+9 15.9	1.971	2.943	4.9	18.8	10 28	3 10.70	+16 39.4	1.338	2.312	6.4	19.9
11 7	3 0.46	+7 35.2	1.952	2.935	3.1	18.7	11 7	3 1.09	+15 52.1	1.316	2.306	1.2	19.6
11 17	2 52.99	+6 1.2	1.964	2.928	5.3	18.8	11 17	2 51.15	+15 2.9	1.320	2.300	4.3	19.8
11 27	2 46.26	+4 40.5	2.004	2.920	8.7	19.0	11 27	2 42.33	+14 18.7	1.351	2.294	9.4	20.1
12 7	2 41.00	+3 37.7	2.070	2.913	11.9	19.2	12 7	2 35.76	+13 45.6	1.406	2.289	14.0	20.3
12 17	2 37.71	+2 54.9	2.158	2.907	14.7	19.4	12 17	2 32.13	+13 27.5	1.481	2.284	17.8	20.6
<b>228906</b>	2003 <i>SC</i> <sub>141</sub>		11 9.4 3°50	2°4/11.2 18			<b>187985</b>	2001 <i>RT</i> <sub>37</sub>		11 9.4 51°58	0°6/ 9.7 18		
10 8	3 18.86	+26 14.8	1.657	2.506	14.8	18.9	10 8	3 26.94	+21 0.1	1.190	2.059	18.1	20.7
10 18	3 14.66	+25 43.3	1.589	2.506	11.2	18.7	10 18	3 20.63	+20 25.3	1.156	2.087	13.1	20.5
10 28	3 8.26	+24 54.1	1.543	2.506	7.1	18.5	10 28	3 11.59	+19 35.8	1.143	2.116	7.5	20.3
11 7	3 0.56	+23 49.4	1.523	2.508	3.2	18.2	11 7	3 1.20	+18 36.3	1.155	2.145	1.7	20.0
11 17	2 52.70	+22 34.3	1.529	2.510	3.7	18.3	11 17	2 51.06	+17 33.9	1.193	2.174	4.2	20.2
11 27	2 45.87	+21 16.3	1.564	2.513	7.7	18.5	11 27	2 42.68	+16 37.2	1.256	2.204	9.5	20.6
12 7	2 41.02	+20 3.4	1.623	2.518	11.7	18.8	12 7	2 37.05	+15 53.0	1.343	2.233	14.0	21.0
12 17	2 38.69	+19 1.7	1.705	2.523	15.2	19.0	12 17	2 34.57	+15 25.0	1.450	2.263	17.6	21.3
<b>96144</b>	3466 <i>T</i> <sub>-3</sub>		11 9.4 15°19	0°1/ 9.3 18 R			<b>55197</b>	2001 <i>RN</i> <sub>17</sub>		11 9.4 7°98	0°8/ 8.9 18		
10 8	3 20.89	+17 50.9	1.627	2.495	14.1	18.9	10 8	3 22.19	+16 31.7	1.720	2.584	13.6	18.8
10 18	3 16.03	+17 36.8	1.568	2.500	10.3	18.7	10 18	3 16.91	+16 6.8	1.654	2.585	9.9	18.6
10 28	3 9.00	+17 14.2	1.533	2.506	5.8	18.5	10 28	3 9.51	+15 34.5	1.612	2.585	5.6	18.3
11 7	3 0.71	+16 45.9	1.522	2.513	1.1	18.2	11 7	3 0.84	+14 57.8	1.596	2.586	1.2	18.1
11 17	2 52.27	+16 15.9	1.540	2.520	3.7	18.4	11 17	2 51.98	+14 21.1	1.609	2.588	3.9	18.3
11 27	2 44.87	+15 49.2	1.584	2.529	8.1	18.7	11 27	2 44.09	+13 49.6	1.649	2.589	8.3	18.5
12 7	2 39.43	+15 30.1	1.653	2.538	12.1	18.9	12 7	2 38.10	+13 27.5	1.714	2.591	12.2	18.8
12 17	2 36.49	+15 21.8	1.744	2.548	15.5	19.2	12 17	2 34.56	+13 17.6	1.801	2.594	15.5	19.0
<b>484954</b>	2009 <i>SO</i> <sub>320</sub>		11 9.4 346°63	3°1/ 7.1 18			<b>270169</b>	2001 <i>SS</i> <sub>199</sub>		11 9.4 98°68	1°2/ 8.7 18		
10 8	3 19.27	+11 14.5	1.850	2.721	12.5	20.8	10 8	3 26.96	+15 48.2	1.623	2.483	14.5	21.0
10 18	3 14.65	+10 17.5	1.783	2.717	9.0	20.5	10 18	3 20.22	+15 15.4	1.573	2.502	10.4	20.8
10 28	3 8.15	+9 16.9	1.741	2.713	5.4	20.3	10 28	3 11.28	+14 35.6	1.547	2.520	5.8	20.6
11 7	3 0.55	+8 17.9	1.726	2.710	3.1	20.2	11 7	3 1.16	+13 52.7	1.548	2.538	1.5	20.4
11 17	2 52.79	+7 26.0	1.739	2.707	5.3	20.3	11 17	2 51.07	+13 11.6	1.578	2.555	4.2	20.6
11 27	2 45.86	+6 46.5	1.779	2.704	9.0	20.5	11 27	2 42.23	+12 37.6	1.635	2.572	8.6	20.9
12 7	2 40.57	+6 22.7	1.844	2.702	12.4	20.7	12 7	2 35.53	+12 15.0	1.718	2.589	12.5	21.2
12 17	2 37.47	+6 15.9	1.930	2.701	15.4	20.9	12 17	2 31.47	+12 5.8	1.822	2.605	15.7	21.4
<b>35973</b>	1999 <i>LU</i> <sub>26</sub>		11 9.4 88°48	5°3/13.8 18			<b>319887</b>	2006 <i>WO</i> <sub>148</sub>		11 9.4 73°79	0°7/ 9.8 18		
10 8	3 29.20	+34 57.9	1.821	2.617	15.9	18.1	10 8	3 23.32	+20 9.6	1.919	2.770	13.1	20.7
10 18	3 21.80	+34 37.4	1.769	2.645	12.6	17.9	10 18	3 17.55	+19 56.6	1.854	2.776	9.5	20.5
10 28	3 12.11	+33 53.6	1.739	2.672	9.1	17.7	10 28	3 9.80	+19 34.0	1.813	2.783	5.6	20.3
11 7	3 1.29	+32 46.8	1.735	2.699	6.1	17.6	11 7	3 0.89	+19 3.9	1.800	2.789	1.4	20.0
11 17	2 50.65	+31 21.6	1.759	2.725	5.5	17.6	11 17	2 51.85	+18 29.4	1.815	2.796	3.2	20.1
11 27	2 41.47	+29 45.9	1.812	2.751	7.8	17.8	11 27	2 43.75	+17 55.3	1.859	2.802	7.2	20.4
12 7	2 34.64	+28 9.2	1.892	2.777	10.9	18.1	12 7	2 37.44	+17 26.3	1.929	2.809	10.9	20.7
12 17	2 30.59	+26 39.7	1.997	2.802	13.8	18.3	12 17	2 33.45	+17 5.8	2.022	2.815	14.0	20.9
<b>9175</b>	Graun		11 9.4 72°40	9°1/15.7 18			<b>247263</b>	2001 <i>RD</i> <sub>148</sub>		11 9.4 86°32	6°7/13.8 18		
10 8	3 30.79	+40 52.7	1.725	2.494	17.7	16.3	10 8	3 28.93	+35 30.3	1.950	2.738	15.3	20.4
10 18	3 23.70	+41 45.2	1.666	2.509	14.9	16.1	10 18	3 21.96	+36 15.5	1.884	2.750	12.5	20.2
10 28	3 13.58	+42 11.5	1.627	2.524	12.1	16.0	10 28	3 12.46	+36 40.7	1.841	2.761	9.5	20.1
11 7	3 1.63	+42 7.0	1.611	2.539	9.8	15.9	11 7	3 1.43	+36 43.2	1.823	2.773	7.2	19.9
11 17	2 49.45	+41 31.7	1.620	2.554	9.1	15.9	11 17	2 50.14	+36 23.0	1.833	2.784	6.8	19.9
11 27	2 38.74	+40 30.9	1.654	2.569	10.3	16.0	11 27	2 39.99	+35 44.3	1.869	2.796	8.5	20.1
12 7	2 30.79	+39 14.5	1.714	2.584	12.6	16.2	12 7	2 32.06	+34 54.4	1.932	2.807	11.2	20.3
12 17	2 26.25	+37 53.2	1.795	2.599	15.1	16.4	12 17	2 27.01	+34 1.1	2.018	2.818	13.8	20.5
<b>362943</b>	2012 <i>XR</i> <sub>138</sub>		11 9.4 227°79	4°0/ 6.6 18			<b>220767</b>	2004 <i>TW</i> <sub>122</sub>		11 9.4 16°03	1°9/ 8.2 18		
10 8	3 22.87	+8 12.5	1.857	2.724	12.7	20.5	10 8	3 21.04	+13 21.8	1.854	2.721	12.7	20.2
10 18	3 17.24	+7 17.6	1.789	2.719	9.3	20.3	10 18	3 15.91	+12 52.0	1.791	2.723	9.1	20.0
10 28	3 9.63	+6 21.8	1.746	2.714	5.9	20.0	10 28	3 8.87	+12 18.1	1.752	2.726	5.2	19.7
11 7	3 0.85	+5 30.5	1.730	2.709	4.0	19.9	11 7	3 0.71	+11 43.6	1.741	2.729	1.9	19.5
11 17	2 51.88	+4 49.0	1.743	2.704	6.1	20.0	11 17	2 52.42	+11 12.7	1.758	2.733	4.3	19.7
11 27	2 43.77	+4 22.1	1.783	2.698	9.6	20.2	11 27	2 45.02	+10 49.7	1.802	2.737	8.2	19.9
12 7	2 37.39	+4 12.1	1.847	2.693	13.0	20.4	12 7	2 39.33	+10 37.7	1.872	2.741	11.8	20.2
12 17	2 33.29	+4 19.6	1.933	2.687	16.0	20.6	12 17	2 35.87	+10 38.4	1.964	2.745	14.8	20.4
<b>412501</b>	2014 <i>KT</i> <sub>27</sub>		11 9.4 195°34	2°5/ 7.4 18			<b>453734</b>	2011 <i>BG</i> <sub>67</sub>		11 9.4 311°84	1°5/10.4 17		
10 8	3 22.53	+12 56.7	2.062	2.922	11.9	21.7	10 8	3 20.83	+22 52.9	1.910	2.758	13.2	21.7
10 18	3 16.81	+11 50.7	1.991	2.920	8.6	21.5	10 18	3 16.06	+22 36.2	1.817	2.736	9.9	21.4
10 28	3 9.31	+10 39.3	1.946	2.918	5.0	21.3	10 28	3 9.13	+22 6.8	1.748	2.715	6.0	21.2
11 7	3 0.78	+9 27.3	1.930	2.916	2.5	21.1	11 7	3 0.80	+21 25.9	1.705	2.693	2.2	20.9
11 17	2 52.12	+8 20.5	1.943	2.912	4.7	21.3	11 17	2 52.07	+20 36.7	1.691	2.672	3.3	20.9
11 27	2 44.27	+7 24.3	1.986	2.909	8.3	21.5	11 27	2 44.07	+19 44.6	1.705	2.651	7.5	21.1
12 7	2 38.02	+6 42.8	2.054	2.905	11.7	21.7	12 7	2 37.79	+18 55.7	1.744	2.631	11.5	21.3
12 17	2 33.86	+6 17.7	2.145	2.901	14.5	21.9	12 17	2 33.92	+18 15.4	1.807	2.611	15.0	21.5
<b>111610</b>	2002 <i>AV</i> <sub>102</sub>		11 9.4 179°61	0°1/ 9.4 18			<b>59961</b>	1999 <i>RZ</i> <sub>233</sub>		11 9.4 80°79	2°2/10.8 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>356541</b>	2011 <i>SL</i> <sub>165</sub>		11 9.4 316°23	2°0/10.5	18		<b>229891</b>	2009 <i>UF</i> <sub>111</sub>		11 9.4 328°78	1°2/ 8.7	17	
10 8	3 24.32	+22 39.2	1.731	2.580	14.3	21.0	10 8	3 23.37	+13 7.5	1.937	2.798	12.5	20.2
10 18	3 18.68	+22 47.1	1.655	2.573	10.7	20.7	10 18	3 17.71	+13 15.3	1.858	2.787	9.1	20.0
10 28	3 10.65	+22 43.3	1.601	2.566	6.6	20.5	10 28	3 10.00	+13 20.8	1.805	2.777	5.2	19.7
11 7	3 1.10	+22 28.0	1.573	2.560	2.6	20.2	11 7	3 0.99	+13 25.7	1.778	2.768	1.4	19.5
11 17	2 51.19	+22 3.5	1.573	2.554	3.7	20.3	11 17	2 51.66	+13 32.2	1.781	2.758	3.8	19.6
11 27	2 42.23	+21 34.4	1.601	2.548	7.9	20.5	11 27	2 43.08	+13 42.7	1.812	2.750	7.9	19.8
12 7	2 35.27	+21 6.5	1.655	2.542	12.0	20.7	12 7	2 36.18	+13 59.6	1.869	2.741	11.6	20.1
12 17	2 31.00	+20 44.8	1.730	2.536	15.5	21.0	12 17	2 31.59	+14 24.4	1.948	2.734	14.8	20.3
<b>3034</b>	<i>Climenhaga</i>		11 9.4 59°66	2°5/10.6	18		<b>411526</b>	2011 <i>BY</i> <sub>81</sub>		11 9.4 212°17	0°9/ 8.6	17	
10 8	3 30.02	+22 54.0	1.235	2.094	18.3	15.6	10 8	3 19.97	+15 51.5	2.515	3.368	10.3	21.3
10 18	3 23.04	+23 7.6	1.194	2.118	13.5	15.4	10 18	3 14.78	+15 15.8	2.439	3.365	7.4	21.1
10 28	3 13.08	+23 5.4	1.174	2.141	8.3	15.2	10 28	3 8.12	+14 34.4	2.390	3.362	4.2	20.9
11 7	3 1.53	+22 48.1	1.179	2.165	3.3	15.0	11 7	3 0.60	+13 50.4	2.369	3.359	1.1	20.7
11 17	2 50.07	+22 19.3	1.209	2.190	4.4	15.1	11 17	2 52.95	+13 7.0	2.379	3.355	3.1	20.8
11 27	2 40.35	+21 46.1	1.265	2.214	9.3	15.5	11 27	2 45.93	+12 28.1	2.418	3.352	6.4	21.0
12 7	2 33.52	+21 15.9	1.345	2.238	13.8	15.8	12 7	2 40.20	+11 57.0	2.485	3.348	9.4	21.2
12 17	2 30.09	+20 54.5	1.446	2.262	17.5	16.1	12 17	2 36.21	+11 36.1	2.575	3.345	12.0	21.4
<b>278166</b>	2007 <i>DY</i> <sub>52</sub>		11 9.4 233°68	2°5/ 7.7	18		<b>295478</b>	2008 <i>QC</i> <sub>27</sub>		11 9.4 36°15	5°1/ 5.6	18	
10 8	3 24.18	+13 17.7	1.762	2.626	13.4	21.4	10 8	3 19.99	+ 3 14.8	2.109	2.974	11.5	20.1
10 18	3 18.36	+12 24.4	1.687	2.618	9.7	21.2	10 18	3 14.90	+ 2 23.7	2.054	2.979	8.6	19.9
10 28	3 10.37	+11 24.8	1.636	2.609	5.6	20.9	10 28	3 8.20	+ 1 36.7	2.024	2.983	6.0	19.8
11 7	3 1.04	+10 23.7	1.612	2.599	2.5	20.7	11 7	3 0.62	+ 0 58.7	2.022	2.988	5.1	19.7
11 17	2 51.45	+ 9 27.0	1.617	2.590	5.0	20.8	11 17	2 52.95	+ 0 33.7	2.047	2.993	6.6	19.8
11 27	2 42.76	+ 8 40.7	1.650	2.580	9.2	21.1	11 27	2 46.06	+ 0 24.8	2.100	2.998	9.3	20.0
12 7	2 35.95	+ 8 9.3	1.709	2.569	13.1	21.3	12 7	2 40.63	+ 0 32.7	2.177	3.004	12.0	20.2
12 17	2 31.61	+ 7 55.0	1.788	2.558	16.5	21.5	12 17	2 37.12	+ 0 56.7	2.275	3.009	14.4	20.4
<b>310070</b>	2010 <i>KL</i> <sub>55</sub>		11 9.4 109°32	4°7/ 5.9	18		<b>266118</b>	2006 <i>SP</i> <sub>341</sub>		11 9.4 22°10	0°2/ 9.4	18	
10 8	3 22.45	+ 4 46.0	2.052	2.914	11.8	20.3	10 8	3 25.04	+17 13.0	1.022	1.909	19.0	19.8
10 18	3 16.63	+ 3 51.2	2.001	2.926	8.8	20.1	10 18	3 19.97	+17 22.4	0.976	1.916	13.8	19.6
10 28	3 9.14	+ 2 59.4	1.976	2.938	5.9	20.0	10 28	3 11.61	+17 22.0	0.950	1.925	7.9	19.3
11 7	3 0.77	+ 2 15.7	1.979	2.950	4.8	19.9	11 7	3 1.31	+17 14.0	0.946	1.936	1.6	18.9
11 17	2 52.38	+ 1 44.5	2.011	2.961	6.4	20.1	11 17	2 50.85	+17 2.5	0.965	1.947	4.8	19.2
11 27	2 44.86	+ 1 28.9	2.070	2.972	9.2	20.3	11 27	2 42.07	+16 53.5	1.009	1.960	10.7	19.6
12 7	2 38.91	+ 1 30.0	2.154	2.983	12.1	20.5	12 7	2 36.29	+16 52.6	1.074	1.974	15.8	19.9
12 17	2 35.00	+ 1 47.1	2.260	2.994	14.5	20.7	12 17	2 34.14	+17 2.9	1.157	1.989	20.0	20.2
<b>517433</b>	2014 <i>NY</i> <sub>54</sub>		11 9.4 54°11	2°9/ 7.7	18		<b>463790</b>	2014 <i>SP</i> <sub>266</sub>		11 9.4 68°11	5°9/14.8	18	
10 8	3 23.12	+ 9 11.4	1.964	2.827	12.2	21.1	10 8	3 23.71	+37 48.9	2.246	3.022	13.9	20.5
10 18	3 17.24	+ 8 55.1	1.907	2.837	8.9	20.9	10 18	3 17.88	+37 48.4	2.171	3.027	11.4	20.3
10 28	3 9.56	+ 8 38.9	1.876	2.846	5.3	20.7	10 28	3 10.02	+37 27.2	2.118	3.033	8.8	20.1
11 7	3 0.86	+ 8 26.2	1.871	2.856	2.9	20.5	11 7	3 0.98	+36 44.4	2.091	3.039	6.6	20.0
11 17	2 52.08	+ 8 20.0	1.896	2.865	4.8	20.7	11 17	2 51.83	+35 41.7	2.091	3.044	6.0	20.0
11 27	2 44.19	+ 8 23.0	1.949	2.875	8.2	20.9	11 27	2 43.67	+34 24.3	2.120	3.050	7.4	20.1
12 7	2 37.97	+ 8 36.6	2.028	2.885	11.5	21.1	12 7	2 37.36	+32 59.5	2.176	3.056	9.8	20.3
12 17	2 33.91	+ 9 1.3	2.129	2.895	14.3	21.4	12 17	2 33.44	+31 34.9	2.256	3.062	12.3	20.4
<b>157952</b>	2000 <i>CX</i> <sub>111</sub>		11 9.4 6°91	9°3/ 3.2	18		<b>143192</b>	2002 <i>XB</i> <sub>83</sub>		11 9.4 335°72	5°7/ 5.8	18	
10 8	3 20.89	- 8 11.7	1.883	2.732	13.3	18.9	10 8	3 19.47	+ 6 19.4	1.477	2.360	14.4	18.7
10 18	3 15.69	- 9 12.4	1.836	2.733	11.1	18.8	10 18	3 15.24	+ 5 9.1	1.412	2.348	10.7	18.5
10 28	3 8.70	- 9 58.6	1.813	2.734	9.6	18.7	10 28	3 8.71	+ 3 59.1	1.369	2.336	7.2	18.3
11 7	3 0.70	-10 23.9	1.814	2.736	9.4	18.7	11 7	3 0.76	+ 2 57.0	1.351	2.326	5.8	18.1
11 17	2 52.63	-10 24.1	1.841	2.738	10.6	18.8	11 17	2 52.51	+ 2 10.3	1.359	2.316	8.0	18.3
11 27	2 45.44	- 9 58.0	1.892	2.740	12.7	18.9	11 27	2 45.23	+ 1 44.9	1.391	2.306	11.8	18.5
12 7	2 39.91	- 9 7.7	1.964	2.743	14.9	19.1	12 7	2 39.92	+ 1 43.0	1.446	2.298	15.6	18.7
12 17	2 36.51	- 7 56.9	2.055	2.746	17.0	19.3	12 17	2 37.22	+ 2 4.0	1.520	2.290	18.9	18.9
<b>364108</b>	2005 <i>YA</i> <sub>285</sub>		11 9.4 110°01	4°7/ 5.8	18		<b>135028</b>	2001 <i>MH</i> <sub>4</sub>		11 9.4 64°12	10°6/ 5.2	18	
10 8	3 20.83	+ 3 18.9	2.282	3.142	10.9	20.7	10 8	3 29.39	-11 50.8	1.693	2.523	15.5	19.4
10 18	3 15.37	+ 2 31.0	2.227	3.149	8.2	20.5	10 18	3 21.52	-12 32.0	1.677	2.557	12.9	19.3
10 28	3 8.42	+ 1 46.9	2.198	3.156	5.7	20.4	10 28	3 11.80	-12 52.0	1.683	2.591	11.1	19.3
11 7	3 0.64	+ 1 11.1	2.196	3.163	4.8	20.3	11 7	3 1.28	-12 45.8	1.714	2.624	10.6	19.3
11 17	2 52.81	+ 0 47.3	2.224	3.170	6.2	20.4	11 17	2 51.12	-12 11.7	1.771	2.658	11.6	19.5
11 27	2 45.71	+ 0 38.1	2.279	3.177	8.8	20.6	11 27	2 42.34	-11 11.6	1.852	2.691	13.4	19.7
12 7	2 40.01	+ 0 44.5	2.360	3.183	11.3	20.8	12 7	2 35.68	- 9 50.1	1.956	2.724	15.4	19.9
12 17	2 36.13	+ 1 5.7	2.463	3.190	13.6	21.0	12 17	2 31.50	- 8 12.9	2.079	2.756	17.1	20.1
<b>404696</b>	2014 <i>HS</i> <sub>186</sub>		11 9.4 117°22	2°0/ 8.0	18		<b>1201</b>	<i>Strenua</i>		11 9.4 34°72	1°7/ 8.2	18	
10 8	3 23.83	+12 32.4	2.001	2.861	12.2	21.6	10 8	3 21.79	+15 33.2	1.741	2.607	13.4	15.5
10 18	3 17.73	+12 1.5	1.943	2.871	8.8	21.4	10 18	3 16.56	+14 39.4	1.677	2.609	9.7	15.2
10 28	3 9.83	+11 27.4	1.909	2.881	5.0	21.2	10 28	3 9.30	+13 37.9	1.637	2.611	5.5	15.0
11 7	3 0.92	+10 53.6	1.904	2.891	2.1	21.0	11 7	3 0.86	+12 33.4	1.625	2.614	1.8	14.8
11 17	2 51.95	+10 23.9	1.928	2.901	4.2	21.2	11 17	2 52.29	+11 31.8	1.640	2.616	4.4	15.0
11 27	2 43.88	+10 2.1	1.980	2.910	7.9	21.5	11 27	2 44.69	+10 39.2	1.684	2.619	8.6	15.2
12 7	2 37.50	+ 9 51.1	2.059	2.919	11.2	21.7	12 7	2 38.95	+10 0.5	1.752	2.622	12.4	15.5
12 17	2 33.28	+ 9 52.3	2.160	2.928	14.1	21.9	12 17	2 35.58	+ 9 38.0	1.842	2.624	15.6	15.7
<b>428587</b>	2008 <i>EA</i> <sub>26</sub>		11 9.4 275°03	7°5/ 5.1	18		<b>40061</b>	1998 <i>KQ</i> <sub>48</sub>		11 9.4 192°93	1°9/ 8.0</		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>404089</b>	2012 <i>FV</i>		11 9.4 345°57	1.8/ 8.3	18		<b>37926</b>	1998 <i>FX</i> <sub>114</sub>		11 9.4 150°49	0.3/ 9.6	18	
10 8	3 22.39	+12 32.8	1.956	2.819	12.3	20.2	10 8	3 24.05	+21 8.3	1.966	2.812	13.0	18.6
10 18	3 16.89	+12 18.5	1.887	2.817	8.9	20.0	10 18	3 18.03	+20 17.2	1.898	2.818	9.5	18.4
10 28	3 9.47	+12 1.3	1.842	2.815	5.1	19.8	10 28	3 10.08	+19 14.2	1.855	2.824	5.5	18.1
11 7	3 0.91	+11 44.1	1.825	2.813	1.9	19.6	11 7	3 1.05	+18 2.5	1.840	2.830	1.2	17.9
11 17	2 52.14	+11 30.1	1.836	2.811	4.1	19.7	11 17	2 51.95	+16 47.6	1.854	2.835	3.2	18.0
11 27	2 44.19	+11 22.6	1.876	2.810	7.9	20.0	11 27	2 43.81	+15 35.9	1.898	2.839	7.3	18.3
12 7	2 37.89	+11 24.3	1.941	2.809	11.5	20.2	12 7	2 37.46	+14 33.3	1.970	2.843	11.0	18.5
12 17	2 33.80	+11 36.6	2.029	2.808	14.5	20.4	12 17	2 33.39	+13 44.0	2.064	2.847	14.1	18.7
<b>140687</b>	2001 <i>UX</i> <sub>55</sub>		11 9.4 283°66	4.5/11.9	18		<b>338300</b>	2002 <i>UX</i> <sub>70</sub>		11 9.4 326°03	10.4/ 1.2	17	
10 8	3 26.24	+28 56.7	1.964	2.784	14.0	19.9	10 8	3 18.52	+ 9 42.9	0.824	1.736	19.7	19.6
10 18	3 20.08	+29 30.1	1.879	2.773	11.0	19.7	10 18	3 15.71	+ 5 33.6	0.772	1.723	14.7	19.2
10 28	3 11.51	+29 49.1	1.816	2.763	7.7	19.5	10 28	3 9.42	+ 1 5.2	0.742	1.712	10.9	19.0
11 7	3 1.35	+29 51.8	1.780	2.753	5.0	19.3	11 7	3 0.98	- 3 13.1	0.735	1.701	11.3	19.0
11 17	2 50.72	+29 38.4	1.772	2.742	5.0	19.3	11 17	2 52.19	- 6 51.2	0.751	1.691	15.6	19.2
11 27	2 40.91	+29 12.3	1.792	2.732	7.8	19.4	11 27	2 45.01	- 9 28.3	0.787	1.682	20.8	19.4
12 7	2 33.04	+28 39.4	1.839	2.722	11.2	19.6	12 7	2 40.83	-10 59.3	0.839	1.674	25.5	19.7
12 17	2 27.82	+28 6.0	1.908	2.712	14.4	19.8	12 17	2 40.35	-11 30.3	0.903	1.667	29.3	20.0
<b>368136</b>	2013 <i>JW</i> <sub>39</sub>		11 9.4 0°98	5.9/ 5.7	18		<b>109388</b>	2001 <i>QB</i> <sub>169</sub>		11 9.4 14°63	5.4/ 7.2	18	
10 8	3 21.19	+ 1 42.8	1.864	2.731	12.6	20.2	10 8	3 22.67	+ 7 18.0	1.097	1.989	17.5	18.2
10 18	3 15.98	+ 0 58.6	1.806	2.730	9.6	20.0	10 18	3 17.97	+ 6 42.0	1.051	1.994	12.8	18.0
10 28	3 8.93	+ 0 20.5	1.773	2.730	6.9	19.8	10 28	3 10.39	+ 6 8.8	1.026	1.999	8.1	17.7
11 7	3 0.81	- 0 6.2	1.765	2.730	6.0	19.8	11 7	3 1.14	+ 5 45.1	1.024	2.006	5.4	17.6
11 17	2 52.55	- 0 17.3	1.785	2.730	7.6	19.9	11 17	2 51.76	+ 5 37.1	1.046	2.014	7.9	17.8
11 27	2 45.16	- 0 10.1	1.832	2.731	10.4	20.1	11 27	2 43.84	+ 5 48.7	1.091	2.023	12.5	18.1
12 7	2 39.42	+ 0 15.6	1.902	2.732	13.4	20.3	12 7	2 38.55	+ 6 20.5	1.157	2.034	16.8	18.4
12 17	2 35.84	+ 0 58.2	1.993	2.734	15.9	20.4	12 17	2 36.46	+ 7 10.4	1.241	2.045	20.5	18.6
<b>376383</b>	2012 <i>DO</i> <sub>33</sub>		11 9.4 185°87	3°0/10.9	16		<b>154210</b>	2002 <i>JD</i> <sub>36</sub>		11 9.4 135°96	2°9/ 7.6	18	
10 8	3 29.49	+24 59.4	1.562	2.402	16.1	21.7	10 8	3 22.99	+ 8 18.9	2.243	3.101	11.1	19.8
10 18	3 22.66	+25 8.0	1.490	2.402	12.2	21.5	10 18	3 17.07	+ 8 4.2	2.176	3.102	8.1	19.6
10 28	3 13.03	+25 1.0	1.441	2.402	7.8	21.2	10 28	3 9.49	+ 7 50.2	2.135	3.104	4.9	19.4
11 7	3 1.65	+24 38.0	1.417	2.401	3.6	21.0	11 7	3 0.95	+ 7 39.8	2.123	3.105	2.9	19.3
11 17	2 49.93	+24 1.5	1.421	2.400	4.3	21.0	11 17	2 52.27	+ 7 35.8	2.140	3.107	4.6	19.4
11 27	2 39.41	+23 17.5	1.453	2.398	8.7	21.3	11 27	2 44.32	+ 7 40.4	2.186	3.108	7.7	19.6
12 7	2 31.33	+23 33.5	1.510	2.396	13.0	21.6	12 7	2 37.84	+ 7 55.1	2.259	3.110	10.8	19.8
12 17	2 26.38	+21 56.5	1.589	2.394	16.7	21.8	12 17	2 33.30	+ 8 20.4	2.355	3.111	13.4	20.0
<b>242394</b>	2004 <i>FA</i> <sub>40</sub>		11 9.4 121°16	0°7/ 9.8	18		<b>457965</b>	2009 <i>VB</i> <sub>80</sub>		11 9.4 28°44	7°2/ 6.0	16	
10 8	3 28.08	+20 0.2	1.693	2.542	14.6	21.0	10 8	3 23.45	- 1 43.1	1.648	2.512	14.1	19.9
10 18	3 21.16	+19 48.9	1.634	2.555	10.6	20.8	10 18	3 17.65	- 2 9.8	1.607	2.526	11.0	19.7
10 28	3 11.94	+19 27.0	1.599	2.568	6.2	20.5	10 28	3 9.86	- 2 25.3	1.589	2.540	8.2	19.6
11 7	3 1.40	+18 56.6	1.591	2.580	1.5	20.3	11 7	3 1.01	- 2 24.5	1.596	2.554	7.2	19.6
11 17	2 50.78	+18 21.3	1.611	2.592	3.5	20.4	11 17	2 52.18	- 2 4.5	1.630	2.570	8.6	19.7
11 27	2 41.35	+17 46.5	1.660	2.603	8.0	20.7	11 27	2 44.45	- 1 24.6	1.690	2.586	11.3	19.9
12 7	2 34.07	+17 17.5	1.735	2.614	12.0	21.0	12 7	2 38.64	- 0 26.6	1.773	2.603	14.2	20.1
12 17	2 29.50	+16 58.2	1.832	2.624	15.3	21.3	12 17	2 35.21	+ 0 46.0	1.876	2.620	16.7	20.4
<b>512879</b>	2016 <i>WT</i> <sub>16</sub>		11 9.4 217°52	0°7/ 8.8	18		<b>156672</b>	2002 <i>JF</i> <sub>115</sub>		11 9.4 112°90	4°3/ 5.7	18	
10 8	3 23.15	+18 32.1	1.934	2.788	12.8	21.4	10 8	3 20.89	+ 3 14.1	2.623	3.477	9.8	20.5
10 18	3 17.48	+17 33.3	1.858	2.783	9.3	21.2	10 18	3 15.22	+ 2 25.0	2.576	3.495	7.4	20.4
10 28	3 9.82	+16 23.6	1.806	2.778	5.3	20.9	10 28	3 8.29	+ 1 39.5	2.556	3.512	5.1	20.3
11 7	3 1.00	+15 7.2	1.782	2.772	1.1	20.6	11 7	3 0.70	+ 1 1.6	2.564	3.529	4.3	20.3
11 17	2 51.99	+13 49.8	1.788	2.766	3.7	20.8	11 17	2 53.12	+ 0 34.5	2.603	3.546	5.6	20.4
11 27	2 43.86	+12 38.0	1.823	2.760	7.9	21.1	11 27	2 46.23	+ 0 20.4	2.670	3.562	7.8	20.5
12 7	2 37.48	+11 37.8	1.884	2.753	11.7	21.3	12 7	2 40.57	+ 0 20.3	2.763	3.578	10.1	20.7
12 17	2 33.39	+10 53.0	1.969	2.746	14.9	21.5	12 17	2 36.53	+ 0 33.6	2.878	3.593	12.1	20.9
<b>451150</b>	2009 <i>RK</i> <sub>40</sub>		11 9.4 283°64	0.4/ 9.7	18		<b>396316</b>	2014 <i>DZ</i> <sub>34</sub>		11 9.4 157°67	1°2/10.3	18	
10 8	3 20.59	+20 54.3	2.181	3.028	11.8	21.1	10 8	3 25.76	+21 57.2	2.245	3.080	12.0	22.4
10 18	3 15.48	+20 15.3	2.104	3.025	8.6	20.9	10 18	3 19.13	+21 45.6	2.175	3.087	8.9	22.2
10 28	3 8.63	+19 25.7	2.052	3.021	5.0	20.7	10 28	3 10.69	+21 24.1	2.129	3.094	5.3	22.0
11 7	3 0.76	+18 28.3	2.027	3.017	1.2	20.4	11 7	3 1.20	+20 54.0	2.112	3.100	1.7	21.8
11 17	2 52.74	+17 27.2	2.033	3.014	2.9	20.5	11 17	2 51.58	+20 18.0	2.126	3.106	2.9	21.9
11 27	2 45.47	+16 27.7	2.068	3.010	6.7	20.8	11 27	2 42.81	+19 40.3	2.169	3.111	6.5	22.1
12 7	2 39.73	+15 34.9	2.130	3.006	10.2	21.0	12 7	2 35.68	+19 5.4	2.240	3.115	9.8	22.4
12 17	2 36.02	+14 52.7	2.215	3.003	13.1	21.2	12 17	2 30.70	+18 37.3	2.336	3.119	12.7	22.6
<b>83137</b>	2001 <i>QL</i> <sub>261</sub>		11 9.4 141°22	5°7/13.7	18		<b>510164</b>	2011 <i>AK</i> <sub>8</sub>		11 9.4 180°04	3°2/11.4	18	
10 8	3 26.85	+34 53.6	2.167	2.955	13.9	19.8	10 8	3 27.49	+26 49.6	1.638	2.473	15.7	21.8
10 18	3 20.26	+35 16.5	2.093	2.961	11.3	19.7	10 18	3 21.09	+26 42.2	1.566	2.474	12.0	21.6
10 28	3 11.46	+35 21.1	2.042	2.966	8.5	19.5	10 28	3 12.09	+26 17.1	1.516	2.475	7.8	21.3
11 7	3 1.33	+35 5.5	2.016	2.971	6.2	19.4	11 7	3 1.51	+25 34.7	1.492	2.475	3.9	21.1
11 17	2 50.97	+34 30.5	2.019	2.976	5.8	19.4	11 17	2 50.68	+24 38.2	1.496	2.475	4.3	21.1
11 27	2 41.58	+33 40.4	2.050	2.980	7.6	19.5	11 27	2 41.01	+23 34.6	1.528	2.474	8.3	21.4
12 7	2 34.12	+32 42.0	2.107	2.984	10.3	19.7	12 7	2 33.64	+22 32.0	1.585	2.473	12.4	21.6
12 17	2 29.21	+31 42.1	2.189	2.988	12.9	19.8	12 17	2 29.22	+21 37.7	1.665	2.472	16.0	21.8
<b>487663</b>	2015 <i>PE</i> <sub>40</sub>		11 9.4 305°90	12°6/30.7	18		<b>454417</b>	2014 <i>NV</i> <sub>56</sub>		11 9.4 4°			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>429783</b>	2012 <i>HZ</i> <sub>6</sub>		11 9.4 185°03	1°9/ 8.3 16			<b>491225</b>	2011 <i>UT</i> <sub>184</sub>		11 9.4 51°68	3°4/ 7.7 18		
10 8	3 26.67	+14 40.2	1.648	2.509	14.3	22.2	10 8	3 24.80	+ 8 56.7	1.616	2.485	14.1	20.3
10 18	3 20.27	+13 54.8	1.580	2.510	10.3	22.0	10 18	3 18.77	+ 8 34.7	1.566	2.498	10.2	20.1
10 28	3 11.54	+13 2.1	1.537	2.509	5.9	21.7	10 28	3 10.61	+ 8 13.1	1.540	2.511	6.1	19.9
11 7	3 1.42	+12 6.6	1.520	2.509	2.0	21.4	11 7	3 1.25	+ 7 56.2	1.540	2.524	3.5	19.8
11 17	2 51.10	+11 14.1	1.532	2.507	4.8	21.6	11 17	2 51.85	+ 7 47.6	1.568	2.537	5.6	19.9
11 27	2 41.85	+10 30.7	1.572	2.505	9.2	21.9	11 27	2 43.57	+ 7 50.7	1.623	2.551	9.4	20.2
12 7	2 34.69	+10 1.0	1.637	2.503	13.3	22.1	12 7	2 37.30	+ 8 6.9	1.702	2.565	13.1	20.5
12 17	2 30.19	+ 9 47.6	1.723	2.499	16.7	22.4	12 17	2 33.57	+ 8 36.1	1.803	2.579	16.1	20.7
<b>434324</b>	2004 <i>HN</i> <sub>59</sub>		11 9.4 183°83	0°2/ 9.5 18			<b>190119</b>	2004 <i>VA</i> <sub>64</sub>		11 9.4 64°62	0°4/ 9.2 16		
10 8	3 26.89	+18 58.2	1.849	2.698	13.6	22.6	10 8	3 41.79	+20 3.8	2.263	3.071	12.8	22.1
10 18	3 20.31	+18 40.9	1.777	2.699	9.9	22.3	10 18	3 29.62	+18 51.7	2.242	3.145	9.1	22.0
10 28	3 11.53	+18 14.1	1.729	2.699	5.7	22.1	10 28	3 16.08	+17 30.7	2.252	3.217	5.0	21.8
11 7	3 1.42	+17 40.1	1.708	2.698	1.2	21.8	11 7	3 2.24	+16 5.3	2.296	3.286	0.9	21.6
11 17	2 51.09	+17 2.4	1.717	2.697	3.4	22.0	11 17	2 49.13	+14 41.4	2.376	3.352	3.1	21.9
11 27	2 41.73	+16 26.2	1.754	2.695	7.8	22.2	11 27	2 37.66	+13 24.9	2.491	3.417	6.7	22.3
12 7	2 34.30	+15 56.2	1.818	2.693	11.7	22.5	12 7	2 28.42	+12 20.4	2.636	3.479	9.7	22.5
12 17	2 29.40	+15 36.5	1.905	2.691	15.0	22.7	12 17	2 21.64	+11 30.2	2.808	3.540	12.0	22.8
<b>71914</b>	2000 <i>WO</i> <sub>45</sub>		11 9.4 4°92	2°9/ 8.0 18			<b>366528</b>	2002 <i>QO</i> <sub>10</sub>		11 9.4 121°89	7°3/ 1.5 18		
10 8	3 25.90	+12 24.0	1.294	2.171	16.4	19.0	10 8	3 20.08	-10 55.0	3.002	3.823	9.6	21.7
10 18	3 20.18	+11 49.6	1.234	2.171	11.9	18.8	10 18	3 14.54	-12 11.6	2.973	3.843	8.2	21.7
10 28	3 11.66	+11 10.3	1.197	2.171	6.9	18.5	10 28	3 7.91	-13 16.7	2.969	3.861	7.4	21.6
11 7	3 1.46	+10 31.5	1.184	2.171	2.9	18.3	11 7	3 0.70	-14 5.8	2.993	3.880	7.4	21.7
11 17	2 51.00	+ 9 59.3	1.197	2.172	5.9	18.4	11 17	2 53.52	-14 36.2	3.044	3.897	8.3	21.7
11 27	2 41.85	+ 9 39.4	1.236	2.172	10.9	18.7	11 27	2 46.95	-14 46.5	3.120	3.914	9.6	21.9
12 7	2 35.17	+ 9 35.7	1.297	2.173	15.4	19.0	12 7	2 41.48	-14 37.5	3.220	3.931	11.0	22.0
12 17	2 31.63	+ 9 49.5	1.378	2.174	19.2	19.3	12 17	2 37.45	-14 11.4	3.338	3.947	12.2	22.1
<b>453122</b>	2007 <i>YG</i> <sub>50</sub>		11 9.4 216°98	13°7/18.4 17			<b>345810</b>	2007 <i>GW</i> <sub>61</sub>		11 9.4 147°78	1°7/ 8.3 18		
10 8	3 35.32	+47 31.7	1.266	2.022	23.5	21.3	10 8	3 25.65	+14 16.5	1.925	2.781	12.8	22.0
10 18	3 28.63	+48 23.0	1.195	2.019	20.7	21.0	10 18	3 19.19	+13 40.1	1.862	2.789	9.2	21.8
10 28	3 17.20	+48 34.9	1.139	2.016	17.7	20.8	10 28	3 10.80	+12 58.3	1.825	2.797	5.2	21.6
11 7	3 2.62	+47 57.0	1.101	2.012	15.0	20.7	11 7	3 1.30	+12 14.9	1.816	2.805	1.8	21.4
11 17	2 47.44	+46 25.8	1.084	2.008	13.7	20.6	11 17	2 51.71	+11 34.3	1.836	2.811	4.1	21.5
11 27	2 34.50	+44 9.3	1.090	2.004	14.5	20.6	11 27	2 43.09	+11 1.0	1.885	2.818	8.0	21.8
12 7	2 25.78	+41 26.0	1.119	1.999	17.0	20.7	12 7	2 36.26	+10 38.8	1.961	2.823	11.6	22.0
12 17	2 22.05	+38 36.4	1.167	1.994	20.2	20.9	12 17	2 31.74	+10 29.5	2.059	2.829	14.6	22.2
<b>366062</b>	2012 <i>CF</i> <sub>30</sub>		11 9.4 300°08	4°1/ 6.9 18			<b>328823</b>	2009 <i>VU</i> <sub>111</sub>		11 9.4 35°24	3°5/ 7.2 18		
10 8	3 23.39	+ 5 37.5	2.014	2.876	12.1	20.5	10 8	3 22.11	+ 7 0.7	2.101	2.964	11.6	20.5
10 18	3 17.54	+ 5 14.0	1.948	2.874	8.9	20.3	10 18	3 16.52	+ 6 38.4	2.040	2.967	8.5	20.3
10 28	3 9.86	+ 4 53.3	1.906	2.872	5.8	20.2	10 28	3 9.25	+ 6 17.8	2.004	2.971	5.3	20.1
11 7	3 1.09	+ 4 39.3	1.893	2.870	4.1	20.0	11 7	3 1.00	+ 6 2.4	1.996	2.975	3.5	20.0
11 17	2 52.15	+ 4 35.3	1.908	2.867	5.8	20.2	11 17	2 52.63	+ 5 55.3	2.016	2.980	5.2	20.1
11 27	2 44.01	+ 4 43.7	1.950	2.865	9.0	20.3	11 27	2 45.05	+ 5 59.1	2.065	2.984	8.3	20.3
12 7	2 37.47	+ 5 5.7	2.019	2.863	12.1	20.5	12 7	2 38.99	+ 6 14.9	2.140	2.989	11.3	20.5
12 17	2 33.07	+ 5 40.8	2.109	2.862	14.8	20.7	12 17	2 34.94	+ 6 42.8	2.237	2.994	14.0	20.7
<b>401747</b>	2013 <i>JU</i> <sub>54</sub>		11 9.4 53°62	1°8/ 8.3 18			<b>361800</b>	2008 <i>CH</i> <sub>20</sub>		11 9.4 301°97	5°8/ 5.6 17		
10 8	3 22.39	+13 1.5	1.951	2.814	12.4	20.6	10 8	3 21.94	+ 4 18.7	1.738	2.609	13.2	21.3
10 18	3 16.79	+12 39.2	1.896	2.826	8.9	20.4	10 18	3 16.98	+ 3 19.5	1.654	2.582	10.0	21.0
10 28	3 9.39	+12 13.6	1.866	2.839	5.0	20.2	10 28	3 9.80	+ 2 21.8	1.593	2.555	7.0	20.8
11 7	3 1.00	+11 47.9	1.864	2.852	1.8	20.1	11 7	3 1.16	+ 1 32.0	1.558	2.528	5.8	20.6
11 17	2 52.55	+11 25.7	1.890	2.865	4.0	20.2	11 17	2 52.06	+ 0 56.5	1.550	2.501	7.9	20.7
11 27	2 45.00	+11 10.5	1.944	2.878	7.7	20.5	11 27	2 43.68	+ 0 40.6	1.568	2.474	11.4	20.8
12 7	2 39.13	+11 4.9	2.025	2.892	11.1	20.7	12 7	2 37.03	+ 0 46.3	1.610	2.447	15.0	21.0
12 17	2 35.41	+11 10.3	2.128	2.905	13.9	21.0	12 17	2 32.81	+ 1 13.5	1.671	2.421	18.2	21.2
<b>481921</b>	2009 <i>BT</i> <sub>80</sub>		11 9.4 267°05	1°5/ 8.6 18			<b>3155</b>	Lee		11 9.4 351°52	2°2/ 10.3 18		
10 8	3 25.06	+13 50.7	1.922	2.780	12.7	21.5	10 8	3 27.22	+20 43.1	1.254	2.120	17.6	15.4
10 18	3 19.08	+13 35.2	1.835	2.762	9.3	21.2	10 18	3 21.55	+21 14.1	1.189	2.117	13.1	15.2
10 28	3 10.92	+13 15.1	1.772	2.744	5.3	21.0	10 28	3 12.69	+21 34.0	1.144	2.114	8.0	14.9
11 7	3 1.35	+12 53.0	1.736	2.725	1.6	20.7	11 7	3 1.75	+21 41.9	1.124	2.111	2.9	14.6
11 17	2 51.36	+12 32.3	1.730	2.706	4.1	20.8	11 17	2 50.32	+21 39.2	1.128	2.110	4.5	14.7
11 27	2 42.11	+12 17.0	1.752	2.687	8.3	21.0	11 27	2 40.20	+21 30.7	1.159	2.109	9.8	15.0
12 7	2 34.56	+12 10.7	1.800	2.668	12.2	21.2	12 7	2 32.81	+21 22.7	1.212	2.108	14.7	15.3
12 17	2 29.42	+12 15.6	1.871	2.648	15.6	21.4	12 17	2 28.95	+21 20.9	1.285	2.109	18.9	15.5
<b>350511</b>	2000 <i>AB</i> <sub>218</sub>		11 9.4 278°26	8°7/ 4.2 18			<b>47303</b>	1999 <i>WU</i> <sub>7</sub>		11 9.4 124°85	6°7/ 5.2 18		
10 8	3 24.55	- 5 31.6	1.825	2.676	13.6	20.4	10 8	3 24.64	- 1 42.5	2.009	2.862	12.5	18.0
10 18	3 18.59	- 6 23.7	1.759	2.663	11.1	20.2	10 18	3 18.29	- 2 31.3	1.961	2.873	9.7	17.9
10 28	3 10.56	- 7 3.6	1.717	2.650	9.2	20.1	10 28	3 10.21	- 3 11.3	1.938	2.883	7.5	17.8
11 7	3 1.26	- 7 24.8	1.700	2.637	8.7	20.1	11 7	3 1.19	- 3 37.4	1.942	2.893	6.8	17.8
11 17	2 51.71	- 7 22.5	1.710	2.624	10.2	20.1	11 17	2 52.14	- 3 45.5	1.974	2.902	8.1	17.9
11 27	2 43.01	- 6 54.5	1.745	2.611	12.7	20.2	11 27	2 44.01	- 3 34.1	2.032	2.911	10.6	18.0
12 7	2 36.08	- 6 2.3	1.802	2.599	15.4	20.4	12 7	2 37.54	- 3 3.6	2.115	2.920	13.1	18.2
12 17	2 31.51	- 4 49.4	1.879	2.586	17.9	20.6	12 17	2 33.18	- 2 16.4	2.218	2.929	15.4	18.4
<b>312395</b>	2008 <i>EQ</i> <sub>166</sub>		11 9.4 284°64	4°3/ 6.8 18			<b>482446</b>	2012 <i>DH</i> <sub>38</sub>		11 9.4 211°57			

EPHEMERIDES

11 9.4

11 9.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>436469</b>	2011 <i>DN</i> <sub>25</sub>		11 9.4 223°72	1°3/ 8.7	18		<b>485826</b>	2012 <i>DH</i> <sub>66</sub>		11 9.5 183°60	3°0/11.8	17	
10 8	3 26.19	+15 23.2	1.754	2.612	13.7	21.9	10 8	3 23.83	+27 29.0	2.411	3.228	11.8	22.4
10 18	3 19.96	+14 52.9	1.677	2.605	10.0	21.6	10 18	3 17.85	+27 34.6	2.332	3.228	9.1	22.2
10 28	3 11.43	+14 15.5	1.625	2.597	5.7	21.4	10 28	3 10.09	+27 27.8	2.277	3.228	6.1	22.0
11 7	3 1.48	+13 34.2	1.599	2.589	1.5	21.1	11 7	3 1.24	+27 8.6	2.250	3.228	3.4	21.8
11 17	2 51.21	+12 53.6	1.603	2.580	4.2	21.3	11 17	2 52.18	+26 38.7	2.253	3.228	3.5	21.8
11 27	2 41.88	+12 19.1	1.634	2.571	8.7	21.5	11 27	2 43.86	+26 1.6	2.285	3.227	6.2	22.0
12 7	2 34.49	+11 55.3	1.692	2.561	12.8	21.7	12 7	2 37.07	+25 22.1	2.345	3.226	9.2	22.2
12 17	2 29.68	+11 45.0	1.771	2.551	16.2	21.9	12 17	2 32.35	+24 45.0	2.430	3.225	11.9	22.4
<b>96766</b>	1999 <i>RA</i> <sub>35</sub>		11 9.4 52°81	7°0/14.6	18		<b>484987</b>	2009 <i>UB</i> <sub>91</sub>		11 9.5 70°35	1°4/10.6	18	
10 8	3 27.39	+36 34.3	1.457	2.265	18.6	18.7	10 8	3 21.55	+23 58.4	2.126	2.965	12.4	20.6
10 18	3 21.21	+36 34.9	1.408	2.286	15.1	18.6	10 18	3 16.21	+23 24.2	2.059	2.973	9.2	20.4
10 28	3 12.17	+36 7.2	1.378	2.308	11.2	18.4	10 28	3 9.11	+22 37.5	2.017	2.981	5.6	20.2
11 7	3 1.58	+35 10.3	1.371	2.330	8.0	18.3	11 7	3 1.03	+21 40.6	2.002	2.989	2.0	20.0
11 17	2 51.08	+33 48.1	1.389	2.352	7.1	18.3	11 17	2 52.87	+20 37.6	2.017	2.998	2.9	20.1
11 27	2 42.23	+32 10.1	1.434	2.374	9.3	18.5	11 27	2 45.58	+19 33.8	2.061	3.006	6.5	20.4
12 7	2 36.13	+30 28.2	1.504	2.397	12.6	18.7	12 7	2 39.92	+18 35.1	2.132	3.014	9.9	20.6
12 17	2 33.25	+28 52.7	1.596	2.420	15.7	19.0	12 17	2 36.35	+17 45.6	2.227	3.023	12.8	20.8
<b>463020</b>	2011 <i>GN</i> <sub>62</sub>		11 9.4 293°77	5°9/13.1	17		<b>221390</b>	2005 <i>YS</i> <sub>34</sub>		11 9.5 307°97	1°2/ 8.6	18	
10 8	3 26.55	+34 9.2	2.291	3.079	13.3	21.3	10 8	3 20.96	+15 25.7	1.988	2.849	12.2	20.7
10 18	3 20.33	+34 58.2	2.193	3.060	10.9	21.1	10 18	3 15.98	+14 54.0	1.909	2.838	8.8	20.5
10 28	3 11.76	+35 32.2	2.118	3.040	8.4	20.9	10 28	3 9.10	+14 15.9	1.854	2.827	5.0	20.2
11 7	3 1.58	+35 48.2	2.069	3.021	6.4	20.8	11 7	3 1.05	+13 34.7	1.827	2.817	1.4	19.9
11 17	2 50.80	+35 45.0	2.049	3.001	6.1	20.7	11 17	2 52.74	+12 54.3	1.829	2.806	3.8	20.1
11 27	2 40.65	+35 24.7	2.056	2.982	7.9	20.8	11 27	2 45.17	+12 19.5	1.859	2.796	7.8	20.3
12 7	2 32.33	+34 52.3	2.090	2.963	10.6	20.9	12 7	2 39.20	+11 54.4	1.915	2.786	11.4	20.5
12 17	2 26.31	+34 14.4	2.148	2.944	13.2	21.1	12 17	2 35.39	+11 41.5	1.993	2.776	14.5	20.7
<b>358651</b>	2007 <i>VB</i> <sub>317</sub>		11 9.4 341°94	1°5/10.4	18		<b>400984</b>	2010 <i>X7</i> <sub>86</sub>		11 9.5 338°05	2°6/11.5	18	
10 8	3 22.51	+22 30.7	1.598	2.454	14.9	21.0	10 8	3 20.31	+27 26.6	1.768	2.608	14.5	19.8
10 18	3 17.52	+22 13.9	1.525	2.449	11.1	20.8	10 18	3 15.80	+26 45.8	1.688	2.599	11.0	19.6
10 28	3 10.12	+21 43.1	1.476	2.444	6.7	20.5	10 28	3 9.09	+25 45.8	1.631	2.591	7.1	19.4
11 7	3 1.22	+21 0.1	1.452	2.440	2.2	20.2	11 7	3 1.05	+24 28.7	1.600	2.584	3.3	19.1
11 17	2 52.04	+20 9.3	1.455	2.436	3.6	20.3	11 17	2 52.78	+22 59.6	1.597	2.577	3.6	19.1
11 27	2 43.88	+19 16.9	1.485	2.433	8.2	20.6	11 27	2 45.47	+21 26.3	1.621	2.570	7.6	19.3
12 7	2 37.81	+18 30.0	1.540	2.430	12.5	20.8	12 7	2 40.07	+19 57.5	1.673	2.565	11.6	19.6
12 17	2 34.47	+17 53.7	1.617	2.428	16.2	21.0	12 17	2 37.17	+18 40.2	1.747	2.560	15.1	19.8
<b>53938</b>	2000 <i>GZ</i> <sub>45</sub>		11 9.4 139°64	1°3/ 8.5	18		<b>312232</b>	2007 <i>XB</i> <sub>59</sub>		11 9.5 335°46	2°9/11.4	18	
10 8	3 22.96	+15 12.6	1.996	2.855	12.3	18.5	10 8	3 23.62	+26 25.7	1.839	2.675	14.2	20.7
10 18	3 17.27	+14 35.6	1.931	2.859	8.9	18.3	10 18	3 18.13	+26 20.2	1.764	2.673	10.8	20.4
10 28	3 9.72	+13 52.7	1.890	2.863	5.0	18.1	10 28	3 10.40	+25 59.3	1.712	2.670	7.0	20.2
11 7	3 1.12	+13 7.3	1.877	2.866	1.5	17.9	11 7	3 1.31	+25 23.6	1.686	2.669	3.5	20.0
11 17	2 52.40	+12 23.8	1.893	2.870	3.8	18.0	11 17	2 51.97	+24 36.0	1.688	2.667	3.8	20.0
11 27	2 44.54	+11 46.7	1.939	2.873	7.7	18.3	11 27	2 43.59	+23 42.1	1.719	2.665	7.5	20.2
12 7	2 38.34	+11 19.9	2.010	2.877	11.2	18.5	12 7	2 37.14	+22 48.6	1.775	2.664	11.2	20.5
12 17	2 34.32	+11 5.7	2.104	2.880	14.1	18.7	12 17	2 33.23	+22 1.4	1.854	2.662	14.5	20.7
<b>186758</b>	2004 <i>CX</i> <sub>64</sub>		11 9.4 322°01	1°7/ 8.6	18		<b>266031</b>	2006 <i>GL</i> <sub>39</sub>		11 9.5 219°67	2°8/ 7.1	18	
10 8	3 21.54	+16 13.4	1.163	2.049	17.2	20.2	10 8	3 21.66	+ 6 48.8	2.961	3.811	9.0	21.2
10 18	3 17.59	+15 33.4	1.088	2.029	12.6	19.9	10 18	3 15.89	+ 6 28.1	2.881	3.802	6.6	21.0
10 28	3 10.53	+14 41.2	1.033	2.009	7.3	19.5	10 28	3 8.82	+ 6 8.4	2.828	3.792	4.2	20.8
11 7	3 1.36	+13 41.7	1.001	1.991	1.9	19.1	11 7	3 0.98	+ 5 52.4	2.804	3.782	2.8	20.7
11 17	2 51.58	+12 42.5	0.994	1.973	5.5	19.3	11 17	2 52.98	+ 5 42.3	2.812	3.772	4.1	20.8
11 27	2 42.92	+11 52.7	1.010	1.956	11.5	19.6	11 27	2 45.47	+ 5 40.3	2.849	3.761	6.6	21.0
12 7	2 36.84	+11 20.0	1.048	1.940	16.9	19.8	12 7	2 39.03	+ 5 47.6	2.915	3.750	9.1	21.1
12 17	2 34.21	+11 8.4	1.104	1.926	21.4	20.1	12 17	2 34.10	+ 6 4.7	3.004	3.738	11.2	21.2
<b>225131</b>	2008 <i>FF</i> <sub>67</sub>		11 9.4 66°17	0°1/ 9.4	18		<b>440067</b>	2002 <i>RP</i> <sub>241</sub>		11 9.5 99°28	6°6/14.3	18	
10 8	3 27.85	+17 41.5	1.369	2.235	16.4	20.2	10 8	3 29.41	+36 28.1	1.968	2.751	15.3	21.3
10 18	3 21.39	+17 35.1	1.319	2.250	11.9	20.0	10 18	3 22.32	+36 58.1	1.906	2.767	12.5	21.0
10 28	3 12.27	+17 19.5	1.292	2.264	6.8	19.7	10 28	3 12.77	+37 6.9	1.865	2.783	9.6	21.0
11 7	3 1.64	+16 57.2	1.289	2.279	1.3	19.4	11 7	3 1.78	+36 52.3	1.850	2.798	7.2	20.9
11 17	2 50.95	+16 32.3	1.313	2.294	4.1	19.7	11 17	2 50.66	+36 15.1	1.861	2.813	6.7	20.9
11 27	2 41.68	+16 10.3	1.364	2.309	9.2	20.0	11 27	2 40.73	+35 20.4	1.901	2.828	8.3	21.0
12 7	2 34.91	+15 56.2	1.439	2.324	13.6	20.3	12 7	2 33.05	+34 16.0	1.967	2.843	10.9	21.2
12 17	2 31.20	+15 53.4	1.535	2.340	17.2	20.6	12 17	2 28.20	+33 10.1	2.056	2.857	13.5	21.4
<b>445689</b>	2011 <i>UN</i> <sub>155</sub>		11 9.4 165°57	1°6/ 8.3	18		<b>9390</b>	1994 <i>NJ</i> <sub>1</sub>		11 9.5 73°24	0°1/ 9.4	18	
10 8	3 22.38	+14 43.3	1.938	2.799	12.5	21.8	10 8	3 28.19	+19 6.8	1.391	2.253	16.4	18.1
10 18	3 16.92	+14 2.4	1.871	2.800	9.0	21.6	10 18	3 21.44	+18 34.8	1.350	2.278	11.9	17.9
10 28	3 9.56	+13 15.5	1.828	2.800	5.1	21.4	10 28	3 12.18	+17 51.6	1.330	2.303	6.7	17.6
11 7	3 1.11	+12 26.4	1.812	2.801	1.7	21.1	11 7	3 1.65	+17 1.0	1.337	2.327	1.3	17.3
11 17	2 52.49	+11 39.9	1.826	2.801	4.1	21.3	11 17	2 51.25	+16 9.0	1.371	2.352	4.0	17.6
11 27	2 44.74	+11 0.8	1.868	2.802	8.0	21.6	11 27	2 42.37	+15 22.5	1.432	2.376	8.9	18.0
12 7	2 38.67	+10 33.1	1.935	2.802	11.6	21.8	12 7	2 35.97	+14 47.1	1.518	2.400	13.2	18.3
12 17	2 34.81	+10 18.9	2.025	2.802	14.6	22.0	12 17	2 32.51	+14 26.1	1.625	2.424	16.6	18.6
<b>442432</b>	2011 <i>UL</i> <sub>144</sub>		11 9.5 51°63	2°8/11.0	16		<b>398394</b>	2011 <i>SP</i> <sub>180</sub>		11 9.5 95°			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>257999</b>	2001 <i>EH</i> <sub>11</sub>	11 9.5 234°09	2°9/ 7.9 18				<b>458054</b>	2009 <i>WY</i> <sub>259</sub>	11 9.5 13°78	2°7/ 7.8 18			
10 8	3 26.83	+11 24.0	1.648	2.513	14.2	20.7	10 8	3 22.47	+ 9 10.3	2.100	2.961	11.6	20.9
10 18	3 20.56	+10 51.1	1.573	2.503	10.3	20.4	10 18	3 16.87	+ 8 57.2	2.034	2.963	8.5	20.7
10 28	3 11.87	+10 14.7	1.522	2.494	6.1	20.2	10 28	3 9.54	+ 8 44.4	1.994	2.964	5.1	20.5
11 7	3 1.66	+ 9 39.0	1.498	2.484	2.9	20.0	11 7	3 1.18	+ 8 34.7	1.982	2.966	2.7	20.3
11 17	2 51.10	+ 9 9.1	1.501	2.473	5.4	20.1	11 17	2 52.67	+ 8 30.9	1.998	2.968	4.6	20.5
11 27	2 41.49	+ 8 49.8	1.533	2.463	9.7	20.3	11 27	2 44.93	+ 8 35.6	2.044	2.970	7.9	20.7
12 7	2 33.91	+ 8 44.5	1.589	2.451	13.9	20.5	12 7	2 38.71	+ 8 50.4	2.115	2.973	11.1	20.9
12 17	2 29.04	+ 8 54.9	1.666	2.440	17.3	20.8	12 17	2 34.54	+ 9 15.7	2.209	2.976	13.8	21.1
<b>37406</b>	2001 <i>XG</i> <sub>103</sub>	11 9.5 56°55	1°7/10.4 18				<b>191576</b>	2003 <i>XM</i> <sub>30</sub>	11 9.5 308°39	0°2/ 9.3 17			
10 8	3 27.48	+22 58.0	1.125	1.993	19.0	19.0	10 8	3 20.99	+17 41.2	2.264	3.116	11.3	20.6
10 18	3 21.59	+22 36.1	1.079	2.008	14.1	18.8	10 18	3 15.81	+17 22.2	2.188	3.112	8.2	20.4
10 28	3 12.55	+21 55.7	1.053	2.023	8.4	18.5	10 28	3 8.94	+16 56.4	2.137	3.108	4.7	20.2
11 7	3 1.76	+21 0.0	1.050	2.039	2.7	18.2	11 7	3 1.07	+16 26.1	2.113	3.104	0.9	19.9
11 17	2 50.98	+19 55.6	1.072	2.054	4.4	18.4	11 17	2 53.00	+15 54.2	2.120	3.100	3.0	20.1
11 27	2 41.93	+18 52.3	1.120	2.070	9.9	18.8	11 27	2 45.62	+15 24.5	2.155	3.096	6.6	20.3
12 7	2 35.83	+17 59.0	1.190	2.087	14.9	19.1	12 7	2 39.68	+15 0.8	2.217	3.092	10.0	20.5
12 17	2 33.22	+17 21.5	1.279	2.103	18.9	19.4	12 17	2 35.68	+14 45.7	2.303	3.088	12.8	20.7
<b>4644</b>	Oumu	11 9.5 142°87	0°2/ 9.4 18				<b>178127</b>	2006 <i>TU</i> <sub>42</sub>	11 9.5 1°61	0°2/ 9.6 18			
10 8	3 28.27	+16 21.7	2.053	2.899	12.5	17.0	10 8	3 22.07	+19 38.9	1.736	2.595	13.8	20.5
10 18	3 21.12	+16 30.9	1.987	2.907	9.1	16.8	10 18	3 16.98	+19 8.2	1.667	2.594	10.1	20.2
10 28	3 11.97	+16 34.8	1.945	2.915	5.2	16.6	10 28	3 9.74	+18 26.6	1.622	2.594	5.8	20.0
11 7	3 1.65	+16 34.5	1.933	2.923	1.0	16.3	11 7	3 1.23	+17 37.2	1.604	2.594	1.2	19.7
11 17	2 51.17	+16 32.0	1.950	2.930	3.2	16.5	11 17	2 52.53	+16 44.6	1.613	2.594	3.5	19.8
11 27	2 41.59	+16 30.2	1.998	2.937	7.2	16.8	11 27	2 44.79	+15 54.9	1.651	2.595	7.9	20.1
12 7	2 33.78	+16 32.0	2.073	2.943	10.7	17.0	12 7	2 38.94	+15 13.5	1.713	2.596	11.9	20.4
12 17	2 28.30	+16 40.0	2.171	2.949	13.7	17.2	12 17	2 35.54	+14 44.5	1.798	2.597	15.3	20.6
<b>44125</b>	1998 <i>HE</i> <sub>38</sub>	11 9.5 102°95	0°3/ 9.7 18				<b>513762</b>	2012 <i>XM</i> <sub>2</sub>	11 9.5 17°32	1°6/10.3 18			
10 8	3 27.74	+20 24.9	1.526	2.381	15.6	18.1	10 8	3 22.30	+21 55.6	1.193	2.067	17.7	19.6
10 18	3 21.09	+19 48.7	1.473	2.397	11.4	17.8	10 18	3 17.83	+21 44.8	1.141	2.073	13.1	19.3
10 28	3 12.03	+18 59.8	1.443	2.413	6.5	17.6	10 28	3 10.46	+21 18.3	1.109	2.081	7.8	19.1
11 7	3 1.65	+18 1.9	1.439	2.429	1.4	17.3	11 7	3 1.38	+20 38.4	1.101	2.090	2.5	18.8
11 17	2 51.28	+17 0.6	1.464	2.444	3.8	17.5	11 17	2 52.14	+19 50.7	1.117	2.099	4.2	18.9
11 27	2 42.25	+16 3.3	1.516	2.459	8.6	17.8	11 27	2 44.33	+19 3.0	1.158	2.110	9.5	19.3
12 7	2 35.53	+15 16.2	1.593	2.474	12.8	18.1	12 7	2 39.13	+18 23.1	1.222	2.122	14.3	19.6
12 17	2 31.65	+14 43.3	1.692	2.488	16.2	18.4	12 17	2 37.14	+17 56.2	1.306	2.136	18.2	19.9
<b>401070</b>	2011 <i>UO</i> <sub>79</sub>	11 9.5 198°25	0°9/10.1 18				<b>295009</b>	2008 <i>EX</i> <sub>48</sub>	11 9.5 308°71	0°7/ 9.1 18			
10 8	3 23.51	+21 37.7	2.016	2.861	12.8	21.3	10 8	3 25.26	+16 35.0	1.243	2.119	17.0	21.1
10 18	3 17.80	+21 12.9	1.941	2.860	9.4	21.0	10 18	3 20.22	+16 22.3	1.168	2.104	12.5	20.8
10 28	3 10.13	+20 37.0	1.891	2.858	5.6	20.8	10 28	3 12.05	+16 0.0	1.113	2.088	7.2	20.5
11 7	3 1.29	+19 51.9	1.868	2.857	1.6	20.5	11 7	3 1.76	+15 31.1	1.082	2.073	1.5	20.1
11 17	2 52.27	+19 1.4	1.874	2.855	3.1	20.7	11 17	2 50.85	+15 0.3	1.077	2.058	4.8	20.2
11 27	2 44.10	+18 10.7	1.909	2.853	7.1	20.9	11 27	2 41.07	+14 34.3	1.097	2.043	10.7	20.5
12 7	2 37.64	+17 25.2	1.972	2.851	10.7	21.1	12 7	2 33.86	+14 19.4	1.139	2.030	15.9	20.8
12 17	2 33.45	+16 49.1	2.057	2.849	13.9	21.3	12 17	2 30.10	+14 19.5	1.200	2.016	20.3	21.0
<b>156698</b>	2002 <i>LR</i> <sub>21</sub>	11 9.5 98°80	1°9/ 7.8 18				<b>1260</b>	Walhalla	11 9.5 80°79	4°7/12.6 18			
10 8	3 21.19	+12 49.6	2.435	3.290	10.5	19.9	10 8	3 25.98	+30 48.1	1.770	2.589	15.4	16.6
10 18	3 15.63	+12 3.4	2.381	3.308	7.5	19.7	10 18	3 19.98	+30 54.4	1.700	2.593	12.1	16.3
10 28	3 8.67	+11 14.2	2.355	3.326	4.3	19.6	10 28	3 11.53	+30 41.5	1.652	2.597	8.5	16.1
11 7	3 0.98	+10 25.5	2.357	3.343	1.9	19.4	11 7	3 1.61	+30 8.8	1.629	2.601	5.4	16.0
11 17	2 53.29	+ 9 41.0	2.389	3.361	3.7	19.6	11 17	2 51.46	+29 18.4	1.634	2.605	5.1	16.0
11 27	2 46.34	+ 9 4.5	2.451	3.378	6.8	19.8	11 27	2 42.43	+28 16.5	1.666	2.609	8.0	16.2
12 7	2 40.75	+ 8 38.5	2.541	3.394	9.6	20.0	12 7	2 35.57	+27 10.9	1.724	2.613	11.5	16.4
12 17	2 36.91	+ 8 24.4	2.653	3.411	12.0	20.2	12 17	2 31.50	+26 9.3	1.806	2.617	14.7	16.6
<b>263392</b>	2008 <i>DH</i> <sub>1</sub>	11 9.5 239°89	0°8/ 9.9 18				<b>275388</b>	2011 <i>AS</i> <sub>77</sub>	11 9.5 288°65	6°2/14.3 18			
10 8	3 27.21	+20 42.9	1.635	2.487	14.9	21.7	10 8	3 24.61	+36 50.6	2.293	3.072	13.6	20.0
10 18	3 21.01	+20 23.4	1.554	2.476	11.0	21.4	10 18	3 18.86	+37 16.1	2.201	3.059	11.2	19.8
10 28	3 12.22	+19 51.2	1.495	2.464	6.5	21.1	10 28	3 10.90	+37 23.4	2.132	3.046	8.8	19.7
11 7	3 1.75	+19 8.1	1.463	2.452	1.7	20.8	11 7	3 1.50	+37 10.2	2.087	3.033	6.8	19.5
11 17	2 50.86	+18 18.3	1.459	2.440	3.7	20.9	11 17	2 51.70	+36 36.4	2.070	3.020	6.3	19.5
11 27	2 40.96	+17 28.1	1.483	2.427	8.7	21.2	11 27	2 42.68	+35 45.5	2.081	3.007	7.8	19.5
12 7	2 33.22	+16 44.3	1.532	2.414	13.1	21.4	12 7	2 35.44	+34 43.7	2.118	2.994	10.2	19.7
12 17	2 28.35	+16 12.3	1.603	2.400	16.9	21.6	12 17	2 30.64	+33 38.2	2.179	2.982	12.8	19.8
<b>126403</b>	2002 <i>BO</i> <sub>13</sub>	11 9.5 175°70	2°9/ 7.7 18				<b>461206</b>	2015 <i>VG</i> <sub>121</sub>	11 9.5 22°94	4°8/ 6.8 18			
10 8	3 23.67	+ 8 55.9	2.091	2.951	11.8	19.9	10 8	3 22.99	+ 4 27.7	1.806	2.673	13.0	20.3
10 18	3 17.75	+ 8 39.4	2.024	2.951	8.6	19.7	10 18	3 17.41	+ 4 1.1	1.750	2.677	9.7	20.1
10 28	3 10.04	+ 8 23.1	1.982	2.951	5.2	19.5	10 28	3 9.89	+ 3 39.0	1.718	2.682	6.4	19.9
11 7	3 1.28	+ 8 10.1	1.968	2.951	2.9	19.3	11 7	3 1.27	+ 3 25.5	1.713	2.687	4.8	19.8
11 17	2 52.35	+ 8 3.4	1.983	2.951	4.7	19.4	11 17	2 52.53	+ 3 24.4	1.735	2.693	6.5	19.9
11 27	2 44.19	+ 8 5.7	2.026	2.951	8.1	19.6	11 27	2 44.72	+ 3 38.1	1.784	2.698	9.7	20.1
12 7	2 37.60	+ 8 18.6	2.096	2.951	11.3	19.9	12 7	2 38.65	+ 4 6.9	1.858	2.705	12.9	20.4
12 17	2 33.10	+ 8 42.7	2.189	2.951	14.1	20.1	12 17	2 34.86	+ 4 49.7	1.953	2.711	15.7	20.6
<b>453002</b>	2007 <i>JE</i> <sub>1</sub>	11 9.5 122°25	1°2/ 8.5 18				<b>513325</b>	2007 <i>EY</i> <sub>135</sub>	11 9.5 189°27	0°4/ 9.2 18			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>23112</b>	2000 AG <sub>3</sub>	11 9.5 186°59	1°3/10.2 18				<b>517505</b>	2014 QA <sub>369</sub>	11 9.5 121°79	2°4/11.4 18			
10 8	3 29.91	+20 59.8	1.974	2.810	13.3	18.8	10 8	3 25.17	+25 39.4	2.527	3.346	11.3	21.8
10 18	3 22.55	+21 7.4	1.897	2.810	9.9	18.6	10 18	3 18.69	+25 51.0	2.459	3.359	8.5	21.7
10 28	3 12.94	+21 5.4	1.844	2.809	5.9	18.3	10 28	3 10.55	+25 52.1	2.417	3.371	5.5	21.5
11 7	3 1.92	+20 54.2	1.820	2.808	2.0	18.1	11 7	3 1.44	+25 42.8	2.403	3.384	2.9	21.3
11 17	2 50.60	+20 35.8	1.825	2.805	3.3	18.2	11 17	2 52.22	+25 24.4	2.419	3.396	3.1	21.4
11 27	2 40.20	+20 14.0	1.861	2.802	7.4	18.4	11 27	2 43.75	+25 0.2	2.466	3.407	5.9	21.6
12 7	2 31.72	+19 53.7	1.923	2.799	11.2	18.6	12 7	2 36.78	+24 34.2	2.540	3.418	8.7	21.8
12 17	2 25.79	+19 39.0	2.009	2.794	14.4	18.9	12 17	2 31.78	+24 10.2	2.640	3.429	11.2	22.0
<b>324691</b>	2007 EC <sub>19</sub>	11 9.5 197°90	2°4/ 7.5 18				<b>86647</b>	2000 EQ <sub>150</sub>	11 9.5 316°74	3°4/ 7.6 18			
10 8	3 21.17	+10 54.7	2.482	3.338	10.3	21.9	10 8	3 22.28	+12 38.0	1.285	2.168	16.1	19.3
10 18	3 15.74	+10 13.9	2.409	3.336	7.4	21.8	10 18	3 17.83	+11 40.7	1.213	2.153	11.8	19.0
10 28	3 8.84	+ 9 30.8	2.363	3.333	4.4	21.6	10 28	3 10.58	+10 35.7	1.163	2.138	6.9	18.7
11 7	3 1.07	+ 8 49.0	2.346	3.331	2.4	21.4	11 7	3 1.51	+ 9 29.7	1.137	2.123	3.4	18.4
11 17	2 53.17	+ 8 11.9	2.359	3.328	4.1	21.5	11 17	2 51.98	+ 8 30.6	1.136	2.109	6.5	18.6
11 27	2 45.90	+ 7 43.2	2.402	3.324	7.1	21.7	11 27	2 43.54	+ 7 46.9	1.160	2.096	11.5	18.8
12 7	2 39.92	+ 7 25.3	2.471	3.320	10.0	21.9	12 7	2 37.44	+ 7 23.7	1.206	2.083	16.3	19.1
12 17	2 35.69	+ 7 19.4	2.564	3.316	12.5	22.1	12 17	2 34.44	+ 7 23.2	1.271	2.071	20.4	19.3
<b>344180</b>	2001 DP <sub>9</sub>	11 9.5 217°86	2°5/ 7.7 18				<b>117786</b>	2005 GN <sub>121</sub>	11 9.5 176°81	0°7/ 9.1 17			
10 8	3 24.65	+10 34.2	2.202	3.057	11.4	21.3	10 8	3 28.46	+16 15.4	1.638	2.495	14.6	20.4
10 18	3 18.47	+10 3.6	2.124	3.049	8.3	21.1	10 18	3 21.73	+16 2.4	1.570	2.496	10.6	20.1
10 28	3 10.49	+ 9 31.0	2.071	3.041	4.9	20.9	10 28	3 12.55	+15 42.1	1.526	2.497	6.1	19.9
11 7	3 1.42	+ 8 59.7	2.047	3.032	2.6	20.7	11 7	3 1.88	+15 17.1	1.508	2.498	1.3	19.6
11 17	2 52.11	+ 8 33.4	2.053	3.022	4.5	20.9	11 17	2 50.96	+14 51.1	1.519	2.498	4.0	19.8
11 27	2 43.50	+ 8 15.6	2.088	3.012	7.9	21.1	11 27	2 41.12	+14 28.9	1.558	2.498	8.7	20.0
12 7	2 36.40	+ 8 8.9	2.149	3.001	11.2	21.2	12 7	2 33.43	+14 15.1	1.623	2.498	12.9	20.3
12 17	2 31.35	+ 8 14.6	2.234	2.989	14.0	21.4	12 17	2 28.54	+14 12.5	1.709	2.497	16.4	20.5
<b>440034</b>	2002 PW <sub>122</sub>	11 9.5 71°84	0°2/ 9.4 18				<b>412388</b>	2013 QR <sub>76</sub>	11 9.5 226°87	0°5/ 9.9 17			
10 8	3 24.06	+19 18.7	1.692	2.550	14.2	21.3	10 8	3 20.82	+20 37.7	2.692	3.530	10.1	21.4
10 18	3 18.28	+18 37.2	1.639	2.565	10.3	21.1	10 18	3 15.51	+20 15.5	2.608	3.524	7.4	21.3
10 28	3 10.40	+17 45.3	1.609	2.580	5.8	20.9	10 28	3 8.75	+19 45.4	2.549	3.516	4.4	21.0
11 7	3 1.38	+16 46.7	1.606	2.596	1.1	20.6	11 7	3 1.11	+19 8.9	2.520	3.509	1.1	20.8
11 17	2 52.36	+15 46.8	1.631	2.611	3.6	20.8	11 17	2 53.29	+18 28.8	2.521	3.502	2.4	20.9
11 27	2 44.46	+14 52.0	1.685	2.627	8.0	21.1	11 27	2 46.05	+17 48.5	2.552	3.494	5.7	21.1
12 7	2 38.56	+14 7.7	1.764	2.642	11.8	21.4	12 7	2 40.05	+17 11.9	2.612	3.486	8.6	21.3
12 17	2 35.13	+13 37.2	1.865	2.658	15.0	21.6	12 17	2 35.75	+16 42.1	2.696	3.478	11.2	21.5
<b>344257</b>	2001 SL <sub>290</sub>	11 9.5 16°79	11°3/16.3 18				<b>397342</b>	2006 TK <sub>109</sub>	11 9.5 67°60	3°7/11.7 18			
10 8	3 21.18	+38 38.3	0.912	1.756	24.4	19.3	10 8	3 29.40	+26 46.1	1.774	2.601	15.0	20.9
10 18	3 18.18	+39 37.6	0.873	1.767	20.4	19.1	10 18	3 22.23	+27 15.9	1.724	2.626	11.4	20.7
10 28	3 11.11	+39 57.3	0.849	1.780	16.2	18.9	10 28	3 12.72	+27 30.8	1.697	2.650	7.6	20.5
11 7	3 1.57	+39 32.4	0.842	1.795	12.7	18.7	11 7	3 1.92	+27 29.8	1.697	2.675	4.3	20.4
11 17	2 51.84	+38 25.0	0.855	1.813	11.3	18.8	11 17	2 51.07	+27 14.7	1.725	2.699	4.4	20.4
11 27	2 44.26	+36 46.9	0.889	1.833	13.0	18.9	11 27	2 41.47	+26 49.9	1.781	2.724	7.6	20.7
12 7	2 40.33	+34 55.7	0.943	1.855	16.3	19.2	12 7	2 34.08	+26 21.6	1.864	2.748	11.0	20.9
12 17	2 40.58	+33 7.1	1.016	1.878	19.8	19.5	12 17	2 29.44	+25 55.5	1.970	2.772	14.0	21.2
<b>312749</b>	2010 TN <sub>82</sub>	11 9.5 322°72	3°1/11.4 17				<b>434141</b>	2002 RX <sub>54</sub>	11 9.5 45°18	0°2/ 9.4 15			
10 8	3 22.76	+26 8.8	1.749	2.590	14.6	20.6	10 8	3 27.22	+19 45.7	1.281	2.148	17.2	20.6
10 18	3 17.74	+26 8.7	1.667	2.578	11.2	20.4	10 18	3 20.65	+18 56.2	1.257	2.188	12.3	20.4
10 28	3 10.35	+25 53.2	1.608	2.567	7.3	20.1	10 28	3 11.68	+17 55.1	1.255	2.228	6.9	20.2
11 7	3 1.42	+25 22.4	1.574	2.557	3.7	19.9	11 7	3 1.66	+16 48.0	1.278	2.269	1.3	20.0
11 17	2 52.12	+24 38.8	1.568	2.547	4.0	19.9	11 17	2 52.02	+15 42.2	1.328	2.309	4.1	20.3
11 27	2 43.73	+23 47.9	1.589	2.537	7.8	20.1	11 27	2 44.09	+14 45.2	1.405	2.350	9.0	20.7
12 7	2 37.31	+22 56.8	1.636	2.528	11.8	20.3	12 7	2 38.68	+14 2.5	1.506	2.391	13.1	21.0
12 17	2 33.55	+22 11.7	1.705	2.519	15.3	20.5	12 17	2 36.14	+13 36.5	1.628	2.431	16.4	21.4
<b>78161</b>	2002 NF <sub>28</sub>	11 9.5 54°00	8°0/15.3 18				<b>435039</b>	2006 WT <sub>35</sub>	11 9.5 332°90	5°2/ 7.4 18			
10 8	3 30.27	+38 20.5	1.551	2.342	18.4	18.6	10 8	3 25.01	+ 7 2.2	1.197	2.082	16.9	20.5
10 18	3 23.28	+38 49.7	1.508	2.371	15.1	18.4	10 18	3 19.91	+ 6 35.8	1.133	2.072	12.6	20.2
10 28	3 13.40	+38 51.1	1.484	2.400	11.7	18.3	10 28	3 11.82	+ 6 11.8	1.090	2.062	8.0	19.9
11 7	3 1.99	+38 22.5	1.484	2.430	8.9	18.2	11 7	3 1.80	+ 5 56.5	1.071	2.053	5.2	19.7
11 17	2 50.67	+37 26.3	1.508	2.459	8.0	18.2	11 17	2 51.32	+ 5 55.4	1.076	2.045	7.7	19.9
11 27	2 41.04	+36 10.2	1.559	2.489	9.6	18.4	11 27	2 42.06	+ 6 12.7	1.105	2.037	12.4	20.1
12 7	2 34.21	+34 45.0	1.635	2.519	12.3	18.6	12 7	2 35.35	+ 6 49.6	1.156	2.030	17.0	20.4
12 17	2 30.67	+33 21.0	1.733	2.549	15.1	18.9	12 17	2 31.94	+ 7 44.5	1.225	2.025	21.0	20.6
<b>494594</b>	2017 BP <sub>102</sub>	11 9.5 323°02	3°0/ 8.1 18				<b>403165</b>	2008 GQ <sub>58</sub>	11 9.5 87°20	1°2/ 8.7 18			
10 8	3 26.28	+ 8 8.6	1.784	2.647	13.3	20.3	10 8	3 22.50	+15 23.1	2.033	2.890	12.1	21.5
10 18	3 20.05	+ 8 16.1	1.710	2.638	9.8	20.1	10 18	3 16.97	+14 52.4	1.969	2.897	8.7	21.3
10 28	3 11.57	+ 8 25.8	1.659	2.629	5.9	19.9	10 28	3 9.65	+14 15.9	1.930	2.903	4.9	21.1
11 7	3 1.68	+ 8 40.4	1.636	2.621	3.1	19.7	11 7	3 1.30	+13 37.0	1.920	2.909	1.3	20.8
11 17	2 51.44	+ 9 1.9	1.642	2.613	5.1	19.8	11 17	2 52.85	+12 59.5	1.938	2.915	3.6	21.0
11 27	2 42.05	+ 9 32.2	1.676	2.606	9.0	20.0	11 27	2 45.24	+12 27.8	1.985	2.921	7.4	21.3
12 7	2 34.51	+10 12.3	1.735	2.599	12.8	20.2	12 7	2 39.24	+12 5.3	2.058	2.927	10.8	21.5
12 17	2 29.48	+11 2.0	1.816	2.592	16.0	20.4	12 17	2 35.36	+11 54.2	2.154	2.933	13.7	21.7
<b>242339</b>	2003 YX <sub>115</sub>	11 9.5 255°97	4°2/12.5 18				<b>438669</b>	2008 FL <sub>23</sub>	11 9.5 99°75	1°7/10.3 16			
10 8	3 25.25	+30 23.0											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>69874</b>	1998 SQ <sub>73</sub>	11	9.5 123°66	1.7°/10.6	18		<b>272784</b>	2005 YU <sub>230</sub>	11	9.5 42°20	4.9°/13.3	18	
10 8	3 25.49	+22 18.0	2.438	3.268	11.3	19.3	10 8	3 24.16	+32 39.4	2.070	2.875	13.9	20.3
10 18	3 19.00	+22 35.6	2.367	3.276	8.4	19.1	10 18	3 18.47	+32 51.7	1.999	2.880	11.1	20.1
10 28	3 10.78	+22 44.9	2.323	3.284	5.2	18.9	10 28	3 10.65	+32 46.2	1.950	2.886	8.1	19.9
11 7	3 1.55	+22 46.0	2.307	3.292	2.1	18.8	11 7	3 1.56	+32 22.2	1.927	2.891	5.5	19.8
11 17	2 52.14	+22 40.1	2.321	3.300	2.8	18.8	11 17	2 52.28	+31 41.1	1.931	2.897	5.2	19.8
11 27	2 43.46	+22 29.9	2.365	3.307	6.0	19.0	11 27	2 43.94	+30 47.8	1.964	2.903	7.3	19.9
12 7	2 36.28	+22 18.9	2.438	3.315	9.1	19.2	12 7	2 37.46	+29 48.8	2.023	2.909	10.2	20.1
12 17	2 31.11	+22 10.5	2.535	3.322	11.7	19.4	12 17	2 33.43	+28 50.7	2.107	2.915	13.0	20.3
<b>347832</b>	2002 PH <sub>68</sub>	11	9.5 120°00	4.7°/ 6.1	18		<b>477426</b>	2009 WE <sub>80</sub>	11	9.5 124°31	2.8°/11.1	18	
10 8	3 23.54	+ 5 45.0	1.991	2.853	12.2	21.1	10 8	3 26.96	+25 2.9	1.578	2.422	15.8	21.6
10 18	3 17.61	+ 4 41.2	1.940	2.866	9.0	20.9	10 18	3 20.91	+25 5.5	1.509	2.422	11.9	21.3
10 28	3 9.95	+ 3 39.4	1.915	2.878	6.0	20.8	10 28	3 12.22	+24 52.4	1.462	2.423	7.6	21.1
11 7	3 1.37	+ 2 45.3	1.918	2.890	4.7	20.7	11 7	3 1.91	+24 23.9	1.440	2.424	3.5	20.9
11 17	2 52.76	+ 2 3.6	1.949	2.901	6.4	20.9	11 17	2 51.30	+23 43.0	1.445	2.425	4.1	20.9
11 27	2 45.06	+ 1 38.3	2.008	2.912	9.4	21.1	11 27	2 41.84	+22 55.6	1.478	2.426	8.4	21.2
12 7	2 38.99	+ 1 30.6	2.093	2.923	12.3	21.3	12 7	2 34.67	+22 9.3	1.536	2.426	12.6	21.4
12 17	2 35.02	+ 1 40.1	2.198	2.933	14.8	21.5	12 17	2 30.47	+21 30.4	1.616	2.427	16.2	21.6
<b>401531</b>	2013 EQ <sub>94</sub>	11	9.5 208°94	3.8°/12.2	18		<b>22063</b>	Dansealey	11	9.5 179°07	3.5°/ 7.6	18	
10 8	3 26.15	+29 12.4	2.264	3.075	12.7	21.5	10 8	3 27.13	+ 9 47.5	1.636	2.501	14.2	18.4
10 18	3 19.79	+29 26.8	2.181	3.071	9.9	21.3	10 18	3 20.70	+ 9 9.8	1.572	2.502	10.4	18.1
10 28	3 11.38	+29 27.1	2.121	3.066	6.9	21.1	10 28	3 11.96	+ 8 30.5	1.532	2.503	6.3	17.9
11 7	3 1.69	+29 12.7	2.089	3.062	4.3	20.9	11 7	3 1.84	+ 7 54.5	1.519	2.503	3.5	17.7
11 17	2 51.71	+28 44.5	2.085	3.057	4.2	20.9	11 17	2 51.52	+ 7 26.7	1.534	2.503	5.8	17.9
11 27	2 42.50	+28 6.3	2.111	3.051	6.8	21.1	11 27	2 42.26	+ 7 11.6	1.577	2.502	9.9	18.1
12 7	2 34.99	+27 23.6	2.165	3.045	9.9	21.2	12 7	2 35.05	+ 7 11.8	1.644	2.502	13.7	18.4
12 17	2 29.77	+26 42.0	2.243	3.039	12.7	21.4	12 17	2 30.48	+ 7 27.9	1.732	2.500	17.0	18.6
<b>247362</b>	2001 XX <sub>6</sub>	11	9.5 244°89	24.5°/23.9	17		<b>481978</b>	2009 FY <sub>66</sub>	11	9.5 288°26	1.9°/ 8.9	16	
10 8	3 39.40	-41 58.7	1.394	2.074	24.9	20.0	10 8	3 33.49	+ 9 42.0	1.846	2.694	13.6	20.9
10 18	3 30.21	-43 31.0	1.375	2.067	24.6	19.9	10 18	3 25.66	+10 17.9	1.744	2.665	10.1	20.6
10 28	3 17.48	-44 13.6	1.367	2.059	24.5	19.9	10 28	3 15.10	+10 57.1	1.667	2.636	6.0	20.3
11 7	3 2.89	-43 56.1	1.370	2.051	24.8	19.9	11 7	3 2.56	+11 40.4	1.619	2.607	2.1	20.0
11 17	2 48.52	-42 34.8	1.386	2.042	25.4	19.9	11 17	2 49.19	+12 28.1	1.602	2.578	4.5	20.1
11 27	2 36.35	-40 13.4	1.413	2.034	26.1	20.0	11 27	2 36.40	+13 20.7	1.615	2.548	9.1	20.3
12 7	2 27.64	-37 2.6	1.451	2.025	27.0	20.1	12 7	2 25.47	+14 18.6	1.656	2.518	13.4	20.5
12 17	2 22.87	-33 15.0	1.500	2.016	27.9	20.1	12 17	2 17.33	+15 22.4	1.720	2.488	17.1	20.7
<b>226451</b>	2003 SU <sub>98</sub>	11	9.5 340°83	3.3°/ 6.4	18		<b>31641</b>	Cevasco	11	9.5 287°43	0.7°/ 9.9	18	R
10 8	3 18.53	+13 57.7	1.775	2.647	12.9	19.3	10 8	3 24.89	+20 20.8	1.567	2.425	15.1	18.6
10 18	3 14.36	+12 2.6	1.703	2.638	9.3	19.1	10 18	3 19.51	+20 3.0	1.485	2.410	11.2	18.4
10 28	3 8.28	+ 9 57.7	1.656	2.630	5.5	18.8	10 28	3 11.51	+19 32.7	1.425	2.396	6.6	18.1
11 7	3 1.07	+ 7 50.9	1.638	2.622	3.4	18.7	11 7	3 1.80	+18 51.9	1.392	2.381	1.7	17.7
11 17	2 53.68	+ 5 51.8	1.649	2.614	5.9	18.8	11 17	2 51.62	+18 4.7	1.385	2.367	3.8	17.8
11 27	2 47.15	+ 4 9.2	1.688	2.608	9.8	19.1	11 27	2 42.40	+17 17.5	1.406	2.353	8.8	18.1
12 7	2 42.30	+ 2 49.1	1.752	2.602	13.4	19.3	12 7	2 35.32	+16 37.2	1.452	2.338	13.4	18.3
12 17	2 39.65	+ 1 54.0	1.837	2.597	16.5	19.5	12 17	2 31.13	+16 8.9	1.519	2.324	17.3	18.6
<b>64978</b>	2002 AV <sub>20</sub>	11	9.5 331°31	6.4°/ 6.0	18		<b>123639</b>	2000 YY <sub>54</sub>	11	9.5 269°71	0.5°/ 9.2	17	
10 8	3 23.47	+ 4 18.2	1.410	2.288	15.3	18.6	10 8	3 22.36	+16 51.3	2.283	3.134	11.2	20.9
10 18	3 18.33	+ 3 18.8	1.350	2.282	11.5	18.3	10 18	3 16.94	+16 30.6	2.194	3.117	8.2	20.6
10 28	3 10.71	+ 2 23.1	1.312	2.276	7.9	18.1	10 28	3 9.74	+16 3.4	2.130	3.101	4.7	20.4
11 7	3 1.58	+ 1 38.7	1.299	2.271	6.5	18.0	11 7	3 1.42	+15 31.9	2.094	3.084	1.0	20.1
11 17	2 52.19	+ 1 12.2	1.312	2.266	8.6	18.2	11 17	2 52.79	+14 59.1	2.087	3.066	3.1	20.2
11 27	2 43.88	+ 1 8.3	1.349	2.261	12.3	18.4	11 27	2 44.78	+14 29.0	2.110	3.049	6.9	20.5
12 7	2 37.72	+ 1 27.8	1.408	2.257	16.1	18.6	12 7	2 38.18	+14 5.1	2.161	3.031	10.3	20.6
12 17	2 34.37	+ 2 8.9	1.486	2.254	19.4	18.8	12 17	2 33.57	+13 50.6	2.235	3.014	13.3	20.8
<b>58253</b>	1993 QJ <sub>5</sub>	11	9.5 99°44	2.5°/10.9	18		<b>284837</b>	2009 BR <sub>59</sub>	11	9.5 347°45	9.3°/ 4.9	18	
10 8	3 30.12	+24 46.4	1.446	2.290	16.9	19.5	10 8	3 21.41	- 1 28.1	1.248	2.131	16.5	19.4
10 18	3 23.08	+24 34.4	1.393	2.308	12.6	19.3	10 18	3 17.09	- 2 29.2	1.193	2.121	13.1	19.2
10 28	3 13.33	+24 5.1	1.363	2.326	7.8	19.1	10 28	3 10.12	- 3 18.6	1.159	2.112	10.2	19.0
11 7	3 2.09	+23 20.3	1.358	2.343	3.2	18.8	11 7	3 1.51	- 3 47.2	1.147	2.105	9.4	18.9
11 17	2 50.84	+22 24.4	1.380	2.360	4.1	18.9	11 17	2 52.61	- 3 48.3	1.158	2.098	11.3	19.0
11 27	2 41.08	+21 25.2	1.430	2.377	8.6	19.2	11 27	2 44.86	- 3 18.8	1.192	2.093	14.6	19.2
12 7	2 33.91	+20 30.8	1.505	2.393	12.9	19.5	12 7	2 39.39	- 2 20.6	1.247	2.090	18.2	19.4
12 17	2 29.85	+19 47.2	1.601	2.408	16.5	19.8	12 17	2 36.88	- 0 58.5	1.318	2.087	21.3	19.6
<b>118588</b>	2000 GL <sub>69</sub>	11	9.5 296°56	0.6°/ 9.8	18		<b>59160</b>	1998 YF <sub>8</sub>	11	9.5 320°97	0.2°/ 9.7	17	
10 8	3 25.59	+19 16.3	1.441	2.305	15.8	20.2	10 8	3 20.14	+19 50.5	1.958	2.814	12.6	18.1
10 18	3 20.27	+19 9.4	1.357	2.286	11.8	19.9	10 18	3 15.59	+19 20.5	1.873	2.798	9.3	17.8
10 28	3 12.07	+18 51.3	1.295	2.267	6.9	19.6	10 28	3 9.06	+18 39.9	1.812	2.782	5.4	17.6
11 7	3 1.91	+18 23.4	1.259	2.248	1.6	19.2	11 7	3 1.30	+17 51.5	1.777	2.767	1.2	17.2
11 17	2 51.13	+17 49.5	1.248	2.230	4.1	19.3	11 17	2 53.22	+16 59.1	1.772	2.753	3.2	17.4
11 27	2 41.31	+17 15.5	1.264	2.212	9.5	19.6	11 27	2 45.88	+16 8.3	1.794	2.738	7.4	17.6
12 7	2 33.79	+16 48.1	1.305	2.193	14.4	19.8	12 7	2 40.15	+15 24.4	1.843	2.725	11.2	17.8
12 17	2 29.42	+16 32.4	1.365	2.176	18.6	20.0	12 17	2 36.65	+14 51.4	1.914	2.711	14.5	18.0
<b>479412</b>	2013 YG <sub>61</sub>	11	9.5 168°09	3.7°/12.2	18		<b>107404</b>	2001 DA <sub>5</sub>	11	9.5 179°48	2.1°/10.6	18	
10 8	3 27.84	+29 21.2	2.0										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>454644</b>	2014 <i>QK</i> <sub>244</sub>		11 9.5 228°26	5°3/ 5.3 18			<b>301666</b>	2010 <i>EZ</i> <sub>135</sub>		11 9.5 163°03	2°8/ 7.7 18		
10 8	3 21.08	+ 1 26.8	2.318	3.175	10.9	20.9	10 8	3 24.37	+11 22.0	1.825	2.689	13.0	21.2
10 18	3 15.79	+ 0 35.8	2.254	3.172	8.3	20.7	10 18	3 18.54	+10 41.2	1.761	2.691	9.4	21.0
10 28	3 8.97	- 0 10.5	2.215	3.168	6.1	20.6	10 28	3 10.69	+ 9 57.2	1.721	2.692	5.6	20.8
11 7	3 1.26	- 0 47.5	2.205	3.164	5.3	20.6	11 7	3 1.66	+ 9 14.7	1.709	2.694	2.8	20.6
11 17	2 53.41	- 1 11.1	2.222	3.161	6.7	20.6	11 17	2 52.47	+ 8 38.3	1.725	2.695	5.0	20.8
11 27	2 46.23	- 1 18.7	2.268	3.157	9.2	20.8	11 27	2 44.20	+ 8 12.6	1.769	2.696	8.8	21.0
12 7	2 40.38	- 1 9.4	2.338	3.153	11.7	21.0	12 7	2 37.72	+ 8 0.5	1.838	2.697	12.4	21.2
12 17	2 36.34	- 0 44.0	2.430	3.149	14.0	21.1	12 17	2 33.58	+ 8 3.2	1.929	2.698	15.5	21.4
<b>357461</b>	2004 <i>ER</i> <sub>48</sub>		11 9.5 288°24	3°9/ 6.9 18			<b>409404</b>	2005 <i>EK</i> <sub>297</sub>		11 9.5 338°81	0°2/ 9.6 16		
10 8	3 22.32	+ 8 23.0	1.854	2.722	12.7	20.9	10 8	3 20.95	+18 44.8	1.865	2.724	13.0	21.1
10 18	3 17.08	+ 7 32.3	1.787	2.717	9.3	20.6	10 18	3 16.23	+18 30.8	1.788	2.715	9.5	20.9
10 28	3 9.85	+ 6 40.7	1.744	2.713	5.8	20.4	10 28	3 9.46	+18 8.2	1.735	2.706	5.5	20.6
11 7	3 1.45	+ 5 53.6	1.729	2.709	3.9	20.3	11 7	3 1.43	+17 39.0	1.708	2.698	1.2	20.3
11 17	2 52.86	+ 5 16.0	1.741	2.704	5.9	20.4	11 17	2 53.10	+17 6.7	1.709	2.690	3.3	20.4
11 27	2 45.10	+ 4 52.4	1.781	2.700	9.4	20.6	11 27	2 45.56	+16 35.8	1.738	2.683	7.5	20.7
12 7	2 39.03	+ 4 45.1	1.846	2.696	12.8	20.8	12 7	2 39.74	+16 11.1	1.793	2.677	11.4	20.9
12 17	2 35.20	+ 4 54.7	1.932	2.692	15.8	21.0	12 17	2 36.22	+15 55.9	1.870	2.671	14.7	21.1
<b>40620</b>	1999 <i>RH</i> <sub>168</sub>		11 9.5 11°12	0°3/ 9.7 18			<b>117221</b>	2004 <i>RL</i> <sub>307</sub>		11 9.5 210°18	1°4/ 10.5 18		
10 8	3 22.32	+19 2.0	1.755	2.614	13.7	19.1	10 8	3 26.14	+23 16.7	2.029	2.865	13.1	20.6
10 18	3 17.21	+18 49.5	1.689	2.616	10.0	18.9	10 18	3 19.86	+22 50.9	1.947	2.859	9.7	20.4
10 28	3 9.99	+18 28.0	1.647	2.618	5.8	18.6	10 28	3 11.49	+22 12.2	1.888	2.852	5.9	20.1
11 7	3 1.49	+17 59.6	1.631	2.621	1.3	18.3	11 7	3 1.85	+21 22.1	1.858	2.845	2.1	19.9
11 17	2 52.80	+17 27.9	1.643	2.624	3.3	18.5	11 17	2 51.94	+20 24.3	1.857	2.837	3.1	19.9
11 27	2 45.05	+16 57.7	1.683	2.628	7.7	18.8	11 27	2 42.89	+19 24.3	1.885	2.829	7.2	20.2
12 7	2 39.15	+16 33.7	1.748	2.632	11.6	19.0	12 7	2 35.62	+18 28.3	1.941	2.820	10.9	20.4
12 17	2 35.69	+16 19.3	1.835	2.637	14.9	19.3	12 17	2 30.72	+17 41.5	2.021	2.811	14.2	20.6
<b>469764</b>	2005 <i>QZ</i> <sub>45</sub>		11 9.5 74°64	3°2/ 7.8 16			<b>326501</b>	2002 <i>JD</i> <sub>128</sub>		11 9.5 198°76	3°0/ 7.6 17		
10 8	3 28.82	+11 36.0	1.415	2.284	15.8	21.6	10 8	3 26.78	+11 59.7	1.677	2.540	14.0	21.3
10 18	3 21.78	+10 49.5	1.381	2.313	11.3	21.4	10 18	3 20.49	+11 5.2	1.608	2.537	10.2	21.1
10 28	3 12.43	+10 0.5	1.370	2.342	6.6	21.2	10 28	3 11.90	+10 5.7	1.563	2.534	6.0	20.9
11 7	3 1.94	+ 9 14.8	1.385	2.370	3.2	21.1	11 7	3 1.94	+ 9 6.6	1.545	2.531	3.0	20.7
11 17	2 51.66	+ 8 37.9	1.427	2.399	5.7	21.3	11 17	2 51.75	+ 8 13.8	1.556	2.526	5.5	20.8
11 27	2 42.87	+ 8 14.8	1.496	2.426	9.9	21.6	11 27	2 42.57	+ 7 33.4	1.595	2.522	9.7	21.1
12 7	2 36.44	+ 8 7.7	1.589	2.454	13.7	21.9	12 7	2 35.38	+ 7 9.3	1.658	2.516	13.6	21.3
12 17	2 32.81	+ 8 16.8	1.703	2.481	16.9	22.2	12 17	2 30.81	+ 7 3.1	1.743	2.510	16.9	21.5
<b>149013</b>	2002 <i>AL</i> <sub>46</sub>		11 9.5 333°76	1°6/ 8.5 18			<b>185982</b>	2001 <i>NW</i>		11 9.5 69°04	1°6/ 8.8 18		
10 8	3 22.25	+14 16.6	1.932	2.794	12.5	20.2	10 8	3 29.93	+14 2.2	1.373	2.239	16.3	19.9
10 18	3 16.98	+13 46.2	1.862	2.792	9.0	20.0	10 18	3 22.80	+13 50.5	1.333	2.264	11.7	19.7
10 28	3 9.79	+13 10.7	1.817	2.790	5.1	19.8	10 28	3 13.14	+13 33.9	1.316	2.289	6.6	19.5
11 7	3 1.46	+12 33.4	1.799	2.788	1.7	19.5	11 7	3 2.16	+13 15.7	1.325	2.314	1.9	19.3
11 17	2 52.93	+11 58.4	1.809	2.786	4.0	19.7	11 17	2 51.29	+13 0.0	1.361	2.339	4.6	19.5
11 27	2 45.22	+11 30.2	1.848	2.784	7.9	19.9	11 27	2 41.93	+12 51.2	1.424	2.364	9.4	19.9
12 7	2 39.17	+11 12.4	1.913	2.782	11.5	20.1	12 7	2 35.08	+12 52.7	1.511	2.388	13.6	20.2
12 17	2 35.32	+11 6.9	2.000	2.781	14.6	20.3	12 17	2 31.21	+13 5.8	1.619	2.413	16.9	20.5
<b>441775</b>	2009 <i>DS</i> <sub>34</sub>		11 9.5 315°28	6°8/ 4.6 18			<b>482690</b>	2013 <i>CZ</i> <sub>90</sub>		11 9.5 224°12	1°7/ 8.4 18		
10 8	3 20.67	+ 3 36.9	1.609	2.485	13.8	20.8	10 8	3 23.96	+13 19.0	2.004	2.863	12.3	21.4
10 18	3 16.12	+ 2 4.9	1.543	2.473	10.5	20.6	10 18	3 18.19	+12 54.4	1.932	2.859	8.9	21.2
10 28	3 9.42	+ 0 34.7	1.502	2.461	7.7	20.4	10 28	3 10.50	+12 25.8	1.884	2.856	5.1	21.0
11 7	3 1.40	- 0 44.8	1.486	2.450	6.9	20.3	11 7	3 1.66	+11 56.3	1.864	2.852	1.8	20.8
11 17	2 53.11	- 1 45.9	1.496	2.439	9.0	20.4	11 17	2 52.60	+11 29.5	1.873	2.848	4.0	20.9
11 27	2 45.71	- 2 22.5	1.532	2.428	12.3	20.6	11 27	2 44.33	+11 9.3	1.911	2.844	7.9	21.1
12 7	2 40.14	- 2 32.6	1.590	2.418	15.6	20.8	12 7	2 37.70	+10 58.9	1.975	2.840	11.4	21.3
12 17	2 37.01	- 2 17.5	1.666	2.408	18.6	21.0	12 17	2 33.27	+11 0.1	2.061	2.836	14.4	21.5
<b>66677</b>	1999 <i>TM</i> <sub>28</sub>		11 9.5 86°92	0°9/ 10.1 18			<b>98469</b>	2000 <i>UF</i> <sub>93</sub>		11 9.5 193°42	1°8/ 10.7 18		
10 8	3 25.84	+21 3.6	1.703	2.554	14.4	19.6	10 8	3 27.98	+24 0.8	1.623	2.466	15.4	20.0
10 18	3 19.72	+20 45.2	1.644	2.566	10.6	19.4	10 18	3 21.59	+23 35.0	1.550	2.465	11.5	19.7
10 28	3 11.38	+20 15.2	1.609	2.578	6.2	19.2	10 28	3 12.64	+22 52.8	1.499	2.464	7.1	19.5
11 7	3 1.78	+19 36.0	1.601	2.590	1.7	18.9	11 7	3 2.11	+21 56.2	1.474	2.462	2.6	19.2
11 17	2 52.09	+18 51.5	1.620	2.602	3.4	19.1	11 17	2 51.32	+20 49.6	1.478	2.459	3.7	19.3
11 27	2 43.52	+18 7.6	1.668	2.613	7.8	19.4	11 27	2 41.67	+19 40.6	1.510	2.456	8.3	19.5
12 7	2 37.01	+17 29.9	1.742	2.625	11.7	19.6	12 7	2 34.27	+18 37.2	1.567	2.452	12.7	19.8
12 17	2 33.08	+17 2.5	1.838	2.636	15.0	19.9	12 17	2 29.76	+17 45.6	1.647	2.448	16.4	20.0
<b>286832</b>	2002 <i>NU</i> <sub>11</sub>		11 9.5 65°91	5°5/ 6.5 18			<b>251250</b>	2006 <i>VQ</i> <sub>43</sub>		11 9.5 86°22	0°4/ 9.3 18		
10 8	3 25.32	+ 4 18.3	1.618	2.486	14.2	20.4	10 8	3 25.32	+16 35.0	1.930	2.783	12.9	20.9
10 18	3 19.15	+ 3 32.1	1.578	2.505	10.5	20.3	10 18	3 19.15	+16 28.8	1.869	2.793	9.3	20.7
10 28	3 10.95	+ 2 51.1	1.562	2.524	7.1	20.1	10 28	3 11.02	+16 16.5	1.832	2.803	5.3	20.5
11 7	3 1.68	+ 2 20.6	1.572	2.544	5.5	20.1	11 7	3 1.76	+16 0.1	1.823	2.813	1.1	20.2
11 17	2 52.47	+ 2 5.4	1.609	2.563	7.3	20.2	11 17	2 52.37	+15 42.6	1.843	2.823	3.3	20.4
11 27	2 44.42	+ 2 7.9	1.673	2.583	10.5	20.4	11 27	2 43.92	+15 27.5	1.892	2.833	7.4	20.7
12 7	2 38.36	+ 2 28.4	1.760	2.602	13.7	20.7	12 7	2 37.25	+15 18.4	1.968	2.843	11.0	20.9
12 17	2 34.76	+ 3 5.2	1.868	2.622	16.4	20.9	12 17	2 32.88	+15 17.7	2.066	2.853	14.0	21.1
<b>266564</b>	2008 <i>GX</i> <sub>69</sub>		11 9.5 161°50										

EPHEMERIDES

11 9.5

11 9.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>218533</b>	2004 <i>UZ</i> <sub>6</sub>		11 9.5 312°56	3°6/11.9	17		<b>70966</b>	1999 <i>XD</i> <sub>18</sub>		11 9.5 358°18	3°4/10.7	18	
10 8	3 24.33	+27 51.8	2.097	2.919	13.2	20.1	10 8	3 30.87	+22 19.7	1.501	2.348	16.2	18.2
10 18	3 18.64	+28 8.0	2.016	2.915	10.2	19.9	10 18	3 24.10	+23 24.3	1.431	2.347	12.3	18.0
10 28	3 10.86	+28 10.4	1.959	2.910	6.9	19.7	10 28	3 14.32	+24 19.5	1.383	2.346	7.9	17.7
11 7	3 1.75	+27 58.6	1.929	2.906	4.1	19.5	11 7	3 2.53	+25 2.2	1.362	2.345	3.9	17.5
11 17	2 52.33	+27 33.7	1.927	2.901	4.1	19.5	11 17	2 50.19	+25 31.0	1.367	2.345	4.7	17.5
11 27	2 43.71	+26 59.7	1.954	2.897	7.0	19.7	11 27	2 38.94	+25 48.1	1.400	2.345	9.0	17.8
12 7	2 36.82	+26 22.0	2.008	2.893	10.3	19.9	12 7	2 30.17	+25 58.5	1.458	2.346	13.3	18.0
12 17	2 32.29	+25 46.0	2.085	2.889	13.3	20.1	12 17	2 24.69	+26 7.8	1.538	2.347	16.9	18.3
<b>331882</b>	2004 <i>CR</i> <sub>120</sub>		11 9.5 59°97	5°9/4.3	18		<b>272396</b>	2005 <i>SX</i> <sub>292</sub>		11 9.5 303°98	0°4/9.8	18	
10 8	3 19.18	- 0 34.8	2.359	3.217	10.7	20.1	10 8	3 24.35	+20 30.1	1.472	2.334	15.7	20.6
10 18	3 14.34	- 1 43.5	2.314	3.228	8.3	19.9	10 18	3 19.16	+19 55.8	1.399	2.327	11.5	20.4
10 28	3 8.12	- 2 45.7	2.294	3.239	6.4	19.8	10 28	3 11.35	+19 7.5	1.349	2.320	6.8	20.1
11 7	3 1.16	- 3 36.3	2.302	3.250	6.0	19.8	11 7	3 1.89	+18 8.2	1.324	2.313	1.5	19.7
11 17	2 54.16	- 4 11.2	2.338	3.262	7.3	19.9	11 17	2 52.11	+17 3.7	1.325	2.307	3.9	19.9
11 27	2 47.87	- 4 27.9	2.400	3.273	9.4	20.1	11 27	2 43.42	+16 1.7	1.354	2.300	9.1	20.2
12 7	2 42.86	- 4 26.0	2.487	3.285	11.6	20.3	12 7	2 36.97	+15 9.8	1.407	2.294	13.7	20.4
12 17	2 39.54	- 4 6.9	2.594	3.296	13.5	20.4	12 17	2 33.44	+14 32.9	1.481	2.288	17.6	20.7
<b>271985</b>	2005 <i>CG</i> <sub>15</sub>		11 9.5 335°90	1°0/8.9	16		<b>242982</b>	2006 <i>SZ</i> <sub>240</sub>		11 9.5 47°50	1°2/8.8	18	
10 8	3 20.99	+15 30.4	1.893	2.756	12.6	20.8	10 8	3 23.67	+15 35.1	1.681	2.546	13.9	20.7
10 18	3 16.21	+15 9.6	1.817	2.747	9.2	20.6	10 18	3 18.17	+15 7.1	1.624	2.555	10.0	20.4
10 28	3 9.46	+14 42.7	1.765	2.738	5.2	20.4	10 28	3 10.54	+14 32.6	1.591	2.564	5.7	20.2
11 7	3 1.48	+14 12.8	1.740	2.730	1.3	20.1	11 7	3 1.70	+13 55.2	1.584	2.573	1.5	19.9
11 17	2 53.22	+13 43.4	1.743	2.722	3.7	20.2	11 17	2 52.76	+13 19.3	1.605	2.583	4.0	20.2
11 27	2 45.74	+13 18.9	1.775	2.715	7.8	20.5	11 27	2 44.85	+12 49.9	1.653	2.593	8.3	20.4
12 7	2 39.91	+13 3.2	1.831	2.708	11.6	20.7	12 7	2 38.88	+12 31.0	1.727	2.603	12.2	20.7
12 17	2 36.32	+12 58.7	1.910	2.702	14.8	20.9	12 17	2 35.37	+12 24.8	1.822	2.613	15.4	20.9
<b>472785</b>	2015 <i>FE</i> <sub>150</sub>		11 9.5 148°55	2°3/8.3	17		<b>454677</b>	2014 <i>QX</i> <sub>402</sub>		11 9.6 41°77	2°7/7.8	17	
10 8	3 26.83	+13 0.9	1.547	2.413	14.8	22.0	10 8	3 22.49	+10 26.8	1.917	2.782	12.4	21.4
10 18	3 20.65	+12 30.0	1.485	2.416	10.7	21.8	10 18	3 17.06	+10 0.6	1.861	2.792	9.0	21.2
10 28	3 12.05	+11 54.3	1.446	2.419	6.2	21.5	10 28	3 9.82	+9 33.3	1.830	2.801	5.3	21.0
11 7	3 2.01	+11 18.1	1.433	2.421	2.4	21.3	11 7	3 1.56	+9 8.6	1.826	2.812	2.7	20.8
11 17	2 51.76	+10 46.3	1.448	2.423	5.0	21.4	11 17	2 53.20	+8 49.9	1.851	2.822	4.7	21.0
11 27	2 42.63	+10 24.2	1.490	2.425	9.5	21.7	11 27	2 45.73	+8 40.7	1.903	2.833	8.2	21.2
12 7	2 35.66	+10 15.2	1.557	2.427	13.6	22.0	12 7	2 39.93	+8 43.1	1.982	2.843	11.5	21.5
12 17	2 31.45	+10 21.1	1.644	2.429	17.1	22.2	12 17	2 36.27	+8 57.7	2.082	2.855	14.4	21.7
<b>42369</b>	2002 <i>CT</i> <sub>135</sub>		11 9.5 352°94	10°0/4.0	18		<b>47171</b>	Lempo		11 9.6 8°40	0°2/7.6	18	
10 8	3 19.50	- 0 13.2	1.118	2.010	17.2	16.9	10 8	3 2.61	+10 6.5	29.844	30.697	1.0	19.7
10 18	3 15.90	- 1 47.9	1.069	2.003	13.6	16.6	10 18	3 1.71	+10 2.0	29.773	30.698	0.7	19.6
10 28	3 9.54	- 3 12.7	1.041	1.997	10.8	16.5	10 28	3 0.72	+9 57.4	29.730	30.700	0.4	19.6
11 7	3 1.51	- 4 15.8	1.034	1.992	10.2	16.4	11 7	2 59.67	+9 53.0	29.717	30.701	0.2	19.6
11 17	2 53.22	- 4 47.9	1.050	1.989	12.3	16.5	11 17	2 58.62	+9 49.0	29.735	30.703	0.4	19.6
11 27	2 46.17	- 4 44.3	1.087	1.987	15.8	16.7	11 27	2 57.60	+9 45.6	29.782	30.704	0.7	19.6
12 7	2 41.54	- 4 6.5	1.143	1.987	19.4	17.0	12 7	2 56.66	+9 42.8	29.858	30.706	1.0	19.7
12 17	2 39.95	- 2 59.5	1.215	1.988	22.6	17.2	12 17	2 55.83	+9 41.0	29.961	30.707	1.2	19.7
<b>22696</b>	1998 <i>QT</i> <sub>105</sub>		11 9.5 81°66	0°7/9.9	18		<b>106680</b>	2000 <i>WK</i> <sub>153</sub>		11 9.6 245°80	2°2/8.4	18	
10 8	3 30.23	+18 39.4	1.446	2.303	16.2	17.8	10 8	3 27.30	+13 15.5	1.481	2.349	15.3	19.7
10 18	3 23.21	+18 48.9	1.394	2.319	11.8	17.6	10 18	3 21.24	+12 48.9	1.411	2.342	11.1	19.4
10 28	3 13.52	+18 48.9	1.365	2.335	6.9	17.3	10 28	3 12.53	+12 16.9	1.363	2.336	6.4	19.1
11 7	3 2.30	+18 40.7	1.361	2.350	1.7	17.0	11 7	3 2.16	+11 43.6	1.341	2.329	2.3	18.8
11 17	2 50.99	+18 27.2	1.385	2.366	3.8	17.2	11 17	2 51.43	+11 14.0	1.347	2.323	5.1	19.0
11 27	2 41.06	+18 13.2	1.436	2.382	8.8	17.6	11 27	2 41.77	+10 53.5	1.379	2.316	9.9	19.3
12 7	2 33.61	+18 3.6	1.512	2.397	13.1	17.9	12 7	2 34.35	+10 46.2	1.435	2.309	14.4	19.5
12 17	2 29.23	+18 2.3	1.610	2.412	16.6	18.1	12 17	2 29.88	+10 54.1	1.512	2.301	18.1	19.7
<b>28298</b>	1999 <i>CM</i> <sub>64</sub>		11 9.5 286°98	0°9/10.2	18		<b>452981</b>	2007 <i>EW</i> <sub>220</sub>		11 9.6 220°83	2°7/7.3	18	
10 8	3 22.73	+22 9.4	1.875	2.724	13.4	18.3	10 8	3 20.82	+10 58.6	2.323	3.183	10.7	21.9
10 18	3 17.55	+21 36.5	1.794	2.714	9.9	18.1	10 18	3 15.69	+10 5.3	2.251	3.179	7.8	21.7
10 28	3 10.25	+20 50.4	1.737	2.705	5.9	17.8	10 28	3 9.00	+9 9.2	2.206	3.176	4.7	21.5
11 7	3 1.65	+19 53.6	1.707	2.696	1.7	17.5	11 7	3 1.40	+8 14.3	2.188	3.172	2.7	21.4
11 17	2 52.77	+18 50.5	1.705	2.686	3.2	17.6	11 17	2 53.65	+7 25.1	2.201	3.168	4.5	21.5
11 27	2 44.74	+17 47.2	1.731	2.677	7.5	17.9	11 27	2 46.57	+6 45.7	2.242	3.164	7.6	21.7
12 7	2 38.50	+16 50.1	1.784	2.668	11.5	18.1	12 7	2 40.84	+6 19.0	2.310	3.159	10.6	21.9
12 17	2 34.65	+16 4.3	1.860	2.659	14.9	18.3	12 17	2 36.93	+6 6.4	2.401	3.155	13.2	22.1
<b>500734</b>	2012 <i>XB</i> <sub>116</sub>		11 9.5 312°48	12°4/18.6	17		<b>391644</b>	2007 <i>VF</i> <sub>282</sub>		11 9.6 124°58	1°3/10.6	18	
10 8	3 30.58	+46 36.2	1.154	1.930	24.3	20.7	10 8	3 23.99	+24 19.1	1.946	2.785	13.4	20.5
10 18	3 25.23	+46 43.6	1.083	1.926	21.2	20.4	10 18	3 18.24	+23 30.2	1.877	2.791	10.0	20.3
10 28	3 15.39	+46 5.1	1.026	1.922	17.6	20.2	10 28	3 10.53	+22 26.4	1.833	2.798	6.0	20.1
11 7	3 2.75	+44 32.5	0.987	1.918	14.2	20.0	11 7	3 1.71	+21 10.9	1.816	2.804	2.0	19.9
11 17	2 49.75	+42 5.5	0.970	1.914	12.4	19.9	11 17	2 52.82	+19 48.8	1.829	2.810	3.1	20.0
11 27	2 39.02	+38 57.2	0.977	1.910	13.4	19.9	11 27	2 44.90	+18 27.2	1.871	2.816	7.1	20.2
12 7	2 32.29	+35 30.2	1.007	1.907	16.6	20.1	12 7	2 38.80	+17 12.7	1.940	2.821	10.8	20.5
12 17	2 30.18	+32 7.7	1.058	1.904	20.4	20.3	12 17	2 35.01	+16 10.6	2.032	2.827	13.9	20.7
<b>174714</b>	2003 <i>UU</i> <sub>136</sub>		11 9.5 215°04	1°3/10.1	18		<b>150466</b>	2000 <i>JP</i> <sub>34</sub>		11 9.6 159°18	0°2/9.7	18	



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>226532</b>	2003 UC <sub>155</sub>	11	9.6	45°54	0°1/ 9.5	18	<b>351156</b>	2003 YF <sub>133</sub>	11	9.6	221°76	5°5/13.7	18
10 8	3 25.83	+16 30.2	1.830	2.685	13.4	20.0	10 8	3 27.81	+35 6.3	2.373	3.152	13.1	20.7
10 18	3 19.54	+16 41.9	1.781	2.706	9.7	19.8	10 18	3 21.18	+35 28.1	2.282	3.144	10.7	20.6
10 28	3 11.25	+16 47.9	1.756	2.727	5.5	19.6	10 28	3 12.38	+35 32.8	2.214	3.135	8.1	20.4
11 7	3 1.86	+16 49.5	1.759	2.749	1.1	19.4	11 7	3 2.18	+35 18.4	2.172	3.125	6.0	20.2
11 17	2 52.44	+16 49.0	1.790	2.771	3.3	19.6	11 17	2 51.61	+34 45.2	2.159	3.115	5.6	20.2
11 27	2 44.06	+16 49.3	1.850	2.793	7.3	19.9	11 27	2 41.82	+33 56.6	2.175	3.104	7.3	20.3
12 7	2 37.56	+16 53.6	1.936	2.816	10.9	20.2	12 7	2 33.77	+32 58.7	2.218	3.093	9.9	20.4
12 17	2 33.45	+17 4.0	2.046	2.838	13.9	20.4	12 17	2 28.14	+31 58.2	2.286	3.081	12.5	20.6
<b>296419</b>	2009 HT <sub>4</sub>	11	9.6	77°44	0°6/ 9.8	15	<b>199383</b>	2006 BY <sub>247</sub>	11	9.6	97°76	1°1/ 8.7	18
10 8	3 32.32	+17 59.3	1.289	2.151	17.5	20.2	10 8	3 22.21	+14 56.3	2.388	3.239	10.8	21.2
10 18	3 24.91	+18 14.1	1.243	2.170	12.7	20.0	10 18	3 16.60	+14 30.0	2.328	3.253	7.7	21.0
10 28	3 14.56	+18 19.4	1.218	2.189	7.4	19.8	10 28	3 9.49	+13 59.3	2.295	3.267	4.4	20.9
11 7	3 2.56	+18 16.5	1.219	2.208	1.7	19.5	11 7	3 1.55	+13 26.9	2.291	3.280	1.2	20.7
11 17	2 50.53	+18 8.2	1.246	2.228	4.1	19.7	11 17	2 53.56	+12 56.0	2.316	3.293	3.2	20.8
11 27	2 40.11	+17 59.4	1.300	2.247	9.4	20.1	11 27	2 46.31	+12 30.0	2.371	3.306	6.5	21.1
12 7	2 32.48	+17 55.4	1.379	2.265	14.0	20.4	12 7	2 40.44	+12 11.6	2.454	3.319	9.5	21.3
12 17	2 28.19	+17 59.8	1.478	2.284	17.7	20.7	12 17	2 36.40	+12 2.7	2.560	3.331	12.0	21.5
<b>453746</b>	2011 CM <sub>11</sub>	11	9.6	342°31	4°9/13.3	17	<b>500762</b>	2013 BK <sub>70</sub>	11	9.6	287°64	15°5/18.9	17
10 8	3 23.78	+32 43.3	2.116	2.920	13.7	21.1	10 8	3 33.39	+48 50.4	1.218	1.974	24.3	20.6
10 18	3 18.31	+32 56.5	2.037	2.917	11.0	21.0	10 18	3 28.01	+50 6.2	1.142	1.962	21.8	20.4
10 28	3 10.71	+32 52.4	1.980	2.915	8.0	20.8	10 28	3 17.55	+50 43.5	1.081	1.949	19.2	20.2
11 7	3 1.80	+32 29.9	1.949	2.913	5.5	20.6	11 7	3 3.40	+50 30.0	1.036	1.937	16.8	20.0
11 17	2 52.60	+31 50.3	1.945	2.911	5.2	20.6	11 17	2 48.12	+49 18.6	1.011	1.924	15.6	19.9
11 27	2 44.27	+30 58.0	1.970	2.909	7.3	20.7	11 27	2 34.90	+47 14.2	1.006	1.912	16.2	19.9
12 7	2 37.73	+29 59.3	2.021	2.907	10.2	20.9	12 7	2 26.10	+44 33.8	1.022	1.900	18.4	20.0
12 17	2 33.60	+29 1.0	2.097	2.906	13.0	21.1	12 17	2 22.70	+41 39.0	1.057	1.888	21.4	20.1
<b>234701</b>	2002 GW <sub>146</sub>	11	9.6	151°53	5°6/ 5.7	18	<b>83582</b>	2001 SJ <sub>233</sub>	11	9.6	131°58	2°0/ 8.0	18
10 8	3 23.58	+ 4 36.3	1.799	2.666	13.1	20.6	10 8	3 23.55	+12 42.8	2.255	3.110	11.2	20.1
10 18	3 17.95	+ 3 23.5	1.743	2.669	9.8	20.4	10 18	3 17.62	+12 3.0	2.195	3.121	8.1	19.9
10 28	3 10.39	+ 2 13.4	1.711	2.672	6.8	20.2	10 28	3 10.10	+11 19.8	2.161	3.132	4.7	19.8
11 7	3 1.71	+ 1 12.5	1.706	2.674	5.6	20.1	11 7	3 1.69	+10 36.8	2.156	3.142	2.0	19.6
11 17	2 52.92	+ 0 26.7	1.729	2.677	7.5	20.3	11 17	2 53.22	+ 9 57.9	2.180	3.152	3.9	19.7
11 27	2 45.06	+ 0 0.5	1.778	2.679	10.6	20.5	11 27	2 45.54	+ 9 26.8	2.234	3.162	7.2	20.0
12 7	2 38.95	- 0 4.8	1.852	2.681	13.7	20.7	12 7	2 39.34	+ 9 6.3	2.315	3.171	10.3	20.2
12 17	2 35.12	+ 0 10.1	1.945	2.683	16.4	20.9	12 17	2 35.07	+ 8 57.8	2.419	3.180	12.9	20.4
<b>31770</b>	Melivanhouten	11	9.6	108°25	1°5/ 8.5	18	<b>133523</b>	2003 SB <sub>311</sub>	11	9.6	359°14	0°4/ 9.8	18
10 8	3 23.29	+14 5.6	2.023	2.882	12.2	19.1	10 8	3 22.54	+18 56.4	2.030	2.882	12.4	19.6
10 18	3 17.66	+13 37.9	1.958	2.886	8.8	18.9	10 18	3 17.24	+18 49.1	1.958	2.881	9.1	19.4
10 28	3 10.20	+13 5.6	1.918	2.890	5.0	18.6	10 28	3 10.05	+18 34.0	1.910	2.880	5.3	19.1
11 7	3 1.68	+12 31.9	1.905	2.894	1.6	18.4	11 7	3 1.70	+18 12.7	1.890	2.880	1.2	18.9
11 17	2 53.02	+12 0.6	1.922	2.898	3.8	18.6	11 17	2 53.14	+17 48.2	1.899	2.880	3.0	19.0
11 27	2 45.19	+11 35.7	1.967	2.902	7.6	18.8	11 27	2 45.38	+17 24.2	1.936	2.880	7.0	19.2
12 7	2 38.98	+11 20.4	2.038	2.906	11.0	19.1	12 7	2 39.23	+17 4.8	2.000	2.881	10.5	19.5
12 17	2 34.90	+11 16.5	2.133	2.909	13.9	19.3	12 17	2 35.26	+16 53.2	2.087	2.882	13.6	19.7
<b>266182</b>	2006 VA <sub>63</sub>	11	9.6	272°50	1°0/10.1	18	<b>509391</b>	2007 CH <sub>39</sub>	11	9.6	218°64	0°4/ 9.3	18
10 8	3 25.84	+21 46.6	1.559	2.413	15.4	20.7	10 8	3 26.45	+17 52.6	1.804	2.657	13.7	22.5
10 18	3 20.33	+21 18.3	1.473	2.396	11.5	20.4	10 18	3 20.30	+17 24.3	1.727	2.651	10.0	22.2
10 28	3 12.12	+20 34.8	1.410	2.379	6.9	20.1	10 28	3 11.90	+16 46.8	1.673	2.644	5.7	22.0
11 7	3 2.14	+19 38.1	1.372	2.361	1.9	19.8	11 7	3 2.10	+16 2.7	1.647	2.637	1.2	21.7
11 17	2 51.65	+18 33.1	1.362	2.344	3.8	19.9	11 17	2 52.00	+15 16.5	1.650	2.630	3.7	21.8
11 27	2 42.12	+17 27.3	1.379	2.326	8.9	20.1	11 27	2 42.81	+14 33.7	1.681	2.621	8.2	22.1
12 7	2 34.78	+16 28.7	1.421	2.308	13.6	20.4	12 7	2 35.52	+13 59.6	1.738	2.613	12.2	22.3
12 17	2 30.39	+15 43.6	1.485	2.289	17.7	20.6	12 17	2 30.77	+13 37.7	1.818	2.604	15.6	22.5
<b>469359</b>	2001 HX <sub>13</sub>	11	9.6	85°82	1°0/ 8.9	16	<b>231190</b>	2005 UO <sub>368</sub>	11	9.6	122°43	1°9/ 8.5	18
10 8	3 31.15	+16 58.6	1.646	2.497	14.8	22.4	10 8	3 28.25	+12 46.9	1.719	2.578	13.9	20.7
10 18	3 23.22	+16 14.2	1.611	2.535	10.6	22.2	10 18	3 21.45	+12 29.9	1.662	2.589	10.1	20.5
10 28	3 13.22	+15 21.9	1.601	2.572	5.9	22.0	10 28	3 12.45	+12 9.6	1.628	2.600	5.8	20.3
11 7	3 2.26	+14 26.4	1.618	2.608	1.4	21.8	11 7	3 2.19	+11 48.9	1.622	2.610	2.1	20.1
11 17	2 51.58	+13 33.0	1.665	2.643	4.0	22.1	11 17	2 51.83	+11 31.6	1.644	2.620	4.4	20.3
11 27	2 42.34	+12 47.5	1.741	2.677	8.3	22.4	11 27	2 42.55	+11 21.6	1.695	2.629	8.6	20.5
12 7	2 35.34	+12 14.1	1.843	2.711	12.0	22.7	12 7	2 35.30	+11 21.7	1.771	2.638	12.4	20.8
12 17	2 30.98	+11 55.0	1.967	2.743	15.0	23.0	12 17	2 30.61	+11 33.3	1.870	2.647	15.6	21.0
<b>342445</b>	2008 UR <sub>98</sub>	11	9.6	29°56	5°9/ 7.3	18	<b>171472</b>	2195 T <sub>-3</sub>	11	9.6	49°67	1°0/10.2	18
10 8	3 25.69	+ 4 47.7	1.201	2.084	17.0	18.9	10 8	3 24.89	+21 19.4	1.528	2.386	15.4	19.9
10 18	3 20.07	+ 4 23.0	1.161	2.096	12.6	18.7	10 18	3 19.28	+20 58.8	1.474	2.399	11.3	19.6
10 28	3 11.78	+ 4 4.7	1.142	2.110	8.3	18.5	10 28	3 11.29	+20 25.5	1.443	2.412	6.7	19.4
11 7	3 2.02	+ 3 58.7	1.147	2.125	5.9	18.4	11 7	3 1.96	+19 42.0	1.437	2.426	1.9	19.1
11 17	2 52.24	+ 4 9.1	1.177	2.141	7.9	18.6	11 17	2 52.55	+18 53.3	1.458	2.440	3.6	19.3
11 27	2 43.93	+ 4 38.1	1.231	2.158	12.0	18.8	11 27	2 44.36	+18 5.6	1.507	2.454	8.2	19.6
12 7	2 38.12	+ 5 24.7	1.308	2.175	15.9	19.1	12 7	2 38.37	+17 25.2	1.580	2.469	12.4	19.9
12 17	2 35.34	+ 6 26.4	1.403	2.194	19.2	19.4	12 17	2 35.12	+16 56.5	1.676	2.484	15.8	20.2
<b>273114</b>	2006 FD <sub>35</sub>	11	9.6	190°27	0°8/10.2	17	<b>523733</b>	2014 PR <sub>70</sub>	11				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>336828</b>	2011 <i>EO</i> <sub>66</sub>	11	9.6 142°11	0°5/ 9.2 18			<b>282381</b>	2003 <i>QS</i> <sub>109</sub>	11	9.6 90°75	1°5/10.8 18		
10 8	3 27.13	+17 24.3	1.804	2.657	13.7	21.6	10 8	3 26.01	+25 7.8	1.758	2.597	14.6	20.3
10 18	3 20.62	+16 57.0	1.741	2.665	9.9	21.4	10 18	3 19.78	+24 14.1	1.702	2.615	10.8	20.1
10 28	3 11.98	+16 21.5	1.702	2.673	5.6	21.1	10 28	3 11.44	+23 4.1	1.670	2.634	6.6	19.9
11 7	3 2.11	+15 40.8	1.691	2.681	1.2	20.9	11 7	3 2.01	+21 41.4	1.665	2.652	2.3	19.7
11 17	2 52.11	+14 59.1	1.709	2.688	3.6	21.1	11 17	2 52.64	+20 12.2	1.689	2.670	3.3	19.8
11 27	2 43.15	+14 21.6	1.755	2.695	7.9	21.3	11 27	2 44.46	+18 44.3	1.742	2.688	7.4	20.1
12 7	2 36.12	+13 52.8	1.828	2.701	11.8	21.6	12 7	2 38.33	+17 25.4	1.822	2.705	11.3	20.4
12 17	2 31.59	+13 35.9	1.923	2.707	15.0	21.8	12 17	2 34.70	+16 20.6	1.925	2.722	14.5	20.6
<b>77238</b>	2001 <i>FB</i> <sub>40</sub>	11	9.6 191°63	3°9/11.7 18			<b>209565</b>	2004 <i>XD</i> <sub>15</sub>	11	9.6 279°22	1°7/ 8.7 18		
10 8	3 30.00	+26 59.0	1.629	2.460	15.9	19.4	10 8	3 25.80	+13 44.8	1.749	2.611	13.6	20.0
10 18	3 23.29	+27 19.4	1.555	2.460	12.3	19.1	10 18	3 20.03	+13 28.0	1.663	2.592	10.0	19.7
10 28	3 13.80	+27 23.5	1.504	2.459	8.2	18.9	10 28	3 11.89	+13 6.4	1.601	2.573	5.8	19.4
11 7	3 2.53	+27 10.1	1.478	2.457	4.5	18.7	11 7	3 2.19	+12 42.7	1.565	2.554	1.8	19.1
11 17	2 50.86	+26 40.5	1.480	2.456	4.7	18.7	11 17	2 51.99	+12 20.8	1.558	2.535	4.4	19.3
11 27	2 40.33	+26 0.2	1.509	2.454	8.5	18.9	11 27	2 42.57	+12 5.2	1.578	2.515	8.9	19.5
12 7	2 32.15	+25 16.5	1.564	2.452	12.5	19.2	12 7	2 35.01	+11 59.5	1.624	2.496	13.1	19.7
12 17	2 27.06	+24 36.9	1.641	2.449	16.1	19.4	12 17	2 30.03	+12 6.4	1.691	2.476	16.7	19.9
<b>404891</b>	2014 <i>KE</i> <sub>75</sub>	11	9.6 178°78	2°6/ 8.0 18			<b>49399</b>	1998 <i>XK</i> <sub>44</sub>	11	9.6 293°04	0°9/10.0 17		
10 8	3 26.36	+ 9 32.1	2.123	2.977	11.8	21.4	10 8	3 25.98	+19 18.9	1.813	2.664	13.7	19.1
10 18	3 19.84	+ 9 20.1	2.054	2.978	8.6	21.2	10 18	3 20.23	+19 28.3	1.721	2.643	10.2	18.8
10 28	3 11.48	+ 9 8.0	2.010	2.979	5.2	21.0	10 28	3 12.06	+19 29.6	1.653	2.622	6.1	18.6
11 7	3 2.02	+ 8 58.4	1.995	2.979	2.6	20.9	11 7	3 2.24	+19 23.3	1.612	2.601	1.7	18.2
11 17	2 52.37	+ 8 54.1	2.009	2.979	4.5	21.0	11 17	2 51.85	+19 11.4	1.599	2.580	3.4	18.3
11 27	2 43.51	+ 8 57.7	2.053	2.979	7.9	21.2	11 27	2 42.19	+18 57.4	1.615	2.560	8.0	18.5
12 7	2 36.24	+ 9 11.0	2.123	2.978	11.2	21.4	12 7	2 34.37	+18 46.0	1.656	2.539	12.2	18.8
12 17	2 31.11	+ 9 34.6	2.217	2.977	14.0	21.6	12 17	2 29.17	+18 41.4	1.719	2.519	15.9	18.9
<b>245260</b>	2005 <i>AM</i> <sub>18</sub>	11	9.6 4°27	6°5/13.0 18			<b>277395</b>	2005 <i>UL</i> <sub>151</sub>	11	9.6 47°89	1°0/10.0 18		
10 8	3 18.61	+30 20.6	1.006	1.874	20.8	18.3	10 8	3 28.02	+19 24.4	1.439	2.299	16.1	20.7
10 18	3 16.02	+30 46.1	0.952	1.872	16.5	18.0	10 18	3 21.85	+19 33.6	1.379	2.304	11.9	20.4
10 28	3 9.99	+30 44.0	0.915	1.873	11.7	17.8	10 28	3 12.95	+19 32.6	1.340	2.310	7.0	20.2
11 7	3 1.76	+30 12.7	0.899	1.875	7.5	17.6	11 7	3 2.40	+19 22.5	1.327	2.316	1.9	19.9
11 17	2 53.14	+29 15.4	0.905	1.881	6.9	17.6	11 17	2 51.58	+19 6.2	1.340	2.322	3.8	20.0
11 27	2 46.10	+28 2.1	0.932	1.888	10.6	17.8	11 27	2 42.00	+18 48.7	1.381	2.328	8.8	20.3
12 7	2 42.08	+26 45.6	0.981	1.897	15.2	18.1	12 7	2 34.82	+18 35.3	1.446	2.335	13.3	20.6
12 17	2 41.78	+25 36.8	1.049	1.909	19.4	18.4	12 17	2 30.71	+18 30.3	1.532	2.341	17.0	20.9
<b>491045</b>	2011 <i>QL</i> <sub>34</sub>	11	9.6 332°53	1°2/10.6 15			<b>157949</b>	2000 <i>BE</i> <sub>33</sub>	11	9.6 58°56	7°8/ 3.5 18		
10 8	3 18.21	+22 59.7	2.353	3.195	11.2	20.9	10 8	3 21.14	- 5 53.8	2.198	3.046	11.7	19.3
10 18	3 14.03	+22 34.9	2.262	3.178	8.4	20.7	10 18	3 15.94	- 6 58.0	2.151	3.050	9.6	19.2
10 28	3 8.20	+21 59.2	2.196	3.161	5.1	20.4	10 28	3 9.19	- 7 51.4	2.128	3.054	8.1	19.1
11 7	3 1.35	+21 14.3	2.158	3.145	1.8	20.2	11 7	3 1.58	- 8 28.4	2.131	3.058	7.8	19.1
11 17	2 54.25	+20 23.2	2.148	3.130	2.7	20.2	11 17	2 53.90	- 8 45.0	2.160	3.062	9.0	19.2
11 27	2 47.74	+19 30.5	2.168	3.114	6.2	20.4	11 27	2 46.97	- 8 39.4	2.216	3.067	11.0	19.3
12 7	2 42.57	+18 40.9	2.215	3.100	9.5	20.6	12 7	2 41.45	- 8 12.4	2.294	3.071	13.1	19.5
12 17	2 39.27	+17 58.6	2.286	3.086	12.4	20.8	12 17	2 37.79	- 7 26.5	2.392	3.076	15.0	19.7
<b>479447</b>	2013 <i>YL</i> <sub>117</sub>	11	9.6 353°90	0°5/ 9.8 18			<b>470977</b>	2009 <i>SJ</i> <sub>22</sub>	11	9.6 319°20	18°6/24.2 17		
10 8	3 23.03	+18 53.7	1.138	2.019	17.9	20.4	10 8	3 20.26	-10 44.6	0.919	1.804	20.8	20.1
10 18	3 18.80	+18 49.8	1.076	2.013	13.2	20.1	10 18	3 17.02	-14 57.3	0.886	1.791	19.0	20.0
10 28	3 11.43	+18 33.7	1.034	2.008	7.7	19.8	10 28	3 10.50	-18 45.2	0.872	1.779	18.8	19.9
11 7	3 2.07	+18 7.8	1.015	2.005	1.8	19.5	11 7	3 1.92	-21 43.9	0.879	1.767	20.3	20.0
11 17	2 52.27	+17 36.8	1.020	2.003	4.4	19.6	11 17	2 52.95	-23 37.0	0.902	1.756	22.8	20.1
11 27	2 43.80	+17 7.7	1.050	2.002	10.2	20.0	11 27	2 45.43	-24 20.0	0.941	1.746	25.7	20.3
12 7	2 38.02	+16 47.4	1.101	2.002	15.4	20.3	12 7	2 40.73	-23 59.2	0.990	1.737	28.4	20.4
12 17	2 35.67	+16 40.3	1.171	2.004	19.7	20.5	12 17	2 39.55	-22 46.3	1.048	1.729	30.6	20.6
<b>229840</b>	2009 <i>SF</i> <sub>99</sub>	11	9.6 60°32	4°6/12.5 18			<b>20789</b>	Hughgrant	11	9.6 337°86	3°4/ 8.5 18		
10 8	3 27.95	+29 50.2	1.984	2.796	14.2	20.1	10 8	3 24.50	+ 9 11.6	1.177	2.063	17.0	16.1
10 18	3 21.28	+30 26.6	1.926	2.815	11.1	20.0	10 18	3 19.94	+ 9 23.1	1.103	2.043	12.6	15.8
10 28	3 12.39	+30 47.5	1.892	2.834	7.8	19.8	10 28	3 12.22	+ 9 37.4	1.051	2.025	7.6	15.5
11 7	3 2.22	+30 51.4	1.884	2.853	5.1	19.7	11 7	3 2.32	+ 9 57.9	1.022	2.009	3.5	15.2
11 17	2 51.89	+30 39.1	1.904	2.872	4.9	19.7	11 17	2 51.69	+10 27.6	1.017	1.993	6.2	15.3
11 27	2 42.61	+30 14.5	1.953	2.891	7.4	19.9	11 27	2 42.13	+11 9.1	1.036	1.980	11.6	15.6
12 7	2 35.32	+29 43.5	2.028	2.910	10.3	20.1	12 7	2 35.12	+12 3.2	1.077	1.967	16.7	15.8
12 17	2 30.60	+29 12.0	2.127	2.929	13.1	20.3	12 17	2 31.57	+13 9.5	1.137	1.957	21.0	16.1
<b>214043</b>	2004 <i>EH</i> <sub>63</sub>	11	9.6 166°88	1°3/ 8.6 18			<b>203932</b>	2003 <i>QD</i> <sub>21</sub>	11	9.6 29°04	2°6/ 8.3 18		
10 8	3 22.97	+15 32.9	2.046	2.902	12.1	20.9	10 8	3 24.89	+11 56.3	1.394	2.269	15.6	19.7
10 18	3 17.46	+14 49.5	1.977	2.904	8.7	20.7	10 18	3 19.43	+11 35.3	1.341	2.277	11.3	19.4
10 28	3 10.13	+13 59.6	1.933	2.905	5.0	20.5	10 28	3 11.48	+11 11.4	1.311	2.285	6.5	19.2
11 7	3 1.75	+13 6.8	1.917	2.906	1.5	20.2	11 7	3 2.08	+10 48.9	1.306	2.294	2.7	19.0
11 17	2 53.23	+12 15.8	1.931	2.907	3.7	20.4	11 17	2 52.54	+10 32.3	1.328	2.304	5.3	19.2
11 27	2 45.52	+11 31.3	1.973	2.908	7.6	20.6	11 27	2 44.23	+10 26.0	1.375	2.314	9.8	19.5
12 7	2 39.41	+10 57.6	2.042	2.909	11.0	20.9	12 7	2 38.17	+10 32.9	1.447	2.324	14.0	19.7
12 17	2 35.41	+10 36.9	2.134	2.909	14.0	21.1	12 17	2 34.94	+10 53.6	1.538	2.335	17.5	20.0
<b>348308</b>	2005 <i>AB</i> <sub>34</sub>	11	9.6 315°55	1°6/ 8.7 18			<b>40669</b>	1999 <i>RN</i> <sub>201</sub>	11	9.6			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>181223</b>	2005 <i>TY</i> <sub>2</sub>	11	9.6 215°56	1.9°/10.9	18		<b>279141</b>	2009 <i>RO</i> <sub>50</sub>	11	9.6 276°65	1.4°/10.3	18	
10 8	3 24.14	+23 55.5	2.085	2.921	12.7	20.6	10 8	3 27.43	+21 0.2	1.516	2.370	15.7	21.4
10 18	3 18.45	+23 49.5	2.009	2.920	9.6	20.4	10 18	3 21.55	+21 2.3	1.439	2.362	11.7	21.2
10 28	3 10.80	+23 31.8	1.957	2.919	6.0	20.2	10 28	3 12.90	+20 52.5	1.385	2.353	7.1	20.9
11 7	3 1.95	+23 3.2	1.932	2.918	2.5	19.9	11 7	3 2.45	+20 31.5	1.356	2.344	2.2	20.6
11 17	2 52.87	+22 26.4	1.936	2.916	3.1	20.0	11 17	2 51.52	+20 2.3	1.354	2.335	3.8	20.7
11 27	2 44.60	+21 45.7	1.969	2.915	6.7	20.2	11 27	2 41.63	+19 30.4	1.379	2.327	8.8	20.9
12 7	2 38.01	+21 6.3	2.030	2.914	10.3	20.4	12 7	2 34.03	+19 2.2	1.429	2.318	13.4	21.2
12 17	2 33.67	+20 32.9	2.113	2.912	13.3	20.6	12 17	2 29.47	+18 42.9	1.500	2.309	17.3	21.4
<b>428627</b>	2008 <i>FO</i> <sub>62</sub>	11	9.6 94°26	4.6°/12.2	18		<b>346900</b>	2009 <i>TD</i> <sub>38</sub>	11	9.6 354°04	3.5°/11.6	18	
10 8	3 31.99	+28 48.9	1.548	2.374	16.9	21.2	10 8	3 24.36	+26 41.1	1.286	2.141	17.9	20.1
10 18	3 24.61	+29 11.6	1.494	2.393	13.1	21.0	10 18	3 19.63	+26 31.4	1.219	2.138	13.7	19.9
10 28	3 14.46	+29 15.2	1.462	2.412	8.9	20.8	10 28	3 11.88	+26 0.5	1.173	2.135	8.9	19.6
11 7	3 2.71	+28 58.5	1.455	2.430	5.3	20.7	11 7	3 2.23	+25 9.1	1.150	2.134	4.4	19.3
11 17	2 50.86	+28 23.8	1.475	2.448	5.2	20.7	11 17	2 52.22	+24 1.8	1.152	2.133	4.7	19.4
11 27	2 40.46	+27 37.3	1.522	2.466	8.5	21.0	11 27	2 43.54	+22 47.5	1.180	2.132	9.3	19.6
12 7	2 32.65	+26 47.4	1.596	2.483	12.3	21.2	12 7	2 37.48	+21 36.7	1.231	2.132	14.1	19.9
12 17	2 28.01	+26 1.6	1.691	2.500	15.6	21.5	12 17	2 34.75	+20 37.5	1.302	2.133	18.2	20.2
<b>487244</b>	2014 <i>PF</i> <sub>16</sub>	11	9.6 148°11	1.4°/ 8.6	18		<b>393725</b>	2004 <i>XC</i> <sub>26</sub>	11	9.6 347°63	3.5°/11.3	18	
10 8	3 22.77	+14 14.0	2.258	3.112	11.2	22.0	10 8	3 23.60	+24 44.7	1.284	2.145	17.5	19.8
10 18	3 17.18	+13 44.8	2.190	3.116	8.1	21.8	10 18	3 19.17	+25 3.4	1.214	2.137	13.4	19.5
10 28	3 9.95	+13 11.2	2.148	3.119	4.6	21.6	10 28	3 11.69	+25 5.4	1.165	2.130	8.7	19.3
11 7	3 1.77	+12 36.2	2.134	3.122	1.5	21.4	11 7	3 2.21	+24 50.2	1.139	2.123	4.2	19.0
11 17	2 53.45	+12 3.2	2.150	3.126	3.5	21.6	11 17	2 52.21	+24 20.0	1.138	2.118	4.8	19.0
11 27	2 45.87	+11 35.9	2.195	3.129	7.0	21.8	11 27	2 43.41	+23 41.2	1.162	2.114	9.4	19.3
12 7	2 39.74	+11 17.4	2.267	3.131	10.2	22.0	12 7	2 37.19	+23 2.1	1.209	2.111	14.2	19.5
12 17	2 35.54	+11 9.6	2.363	3.134	12.9	22.2	12 17	2 34.32	+22 29.9	1.275	2.109	18.3	19.8
<b>41409</b>	2000 <i>AW</i> <sub>199</sub>	11	9.6 36°07	11°2/ 5.7	18		<b>205418</b>	2001 <i>FT</i> <sub>135</sub>	11	9.6 162°20	3°9/12.5	18	
10 8	3 26.35	- 6 6.9	1.145	2.017	18.4	17.3	10 8	3 26.67	+29 58.1	2.033	2.846	13.9	20.7
10 18	3 20.34	- 7 5.7	1.128	2.044	14.9	17.1	10 18	3 20.40	+29 56.1	1.958	2.849	10.8	20.5
10 28	3 11.81	- 7 42.9	1.131	2.071	12.1	17.1	10 28	3 11.96	+29 37.3	1.906	2.852	7.5	20.3
11 7	3 2.11	- 7 50.7	1.156	2.099	11.2	17.1	11 7	3 2.23	+29 1.4	1.881	2.855	4.5	20.1
11 17	2 52.71	- 7 26.0	1.204	2.129	12.6	17.3	11 17	2 52.28	+28 10.8	1.884	2.857	4.3	20.1
11 27	2 44.97	- 6 30.5	1.274	2.159	15.2	17.5	11 27	2 43.30	+27 10.7	1.916	2.859	7.1	20.3
12 7	2 39.76	- 5 9.7	1.365	2.189	17.9	17.8	12 7	2 36.21	+26 8.0	1.976	2.861	10.4	20.5
12 17	2 37.49	- 3 30.6	1.473	2.221	20.4	18.1	12 17	2 31.61	+25 9.2	2.059	2.862	13.4	20.7
<b>343336</b>	2010 <i>CJ</i> <sub>35</sub>	11	9.6 336°48	1°7/ 8.9	18		<b>483076</b>	2015 <i>LX</i> <sub>35</sub>	11	9.6 117°94	2°1/11.2	18	
10 8	3 23.71	+13 39.9	1.203	2.086	16.9	19.8	10 8	3 26.23	+25 34.4	1.943	2.774	13.7	21.4
10 18	3 19.28	+13 37.7	1.132	2.071	12.4	19.5	10 18	3 19.93	+25 7.0	1.879	2.787	10.3	21.3
10 28	3 11.78	+13 30.8	1.082	2.057	7.2	19.2	10 28	3 11.60	+24 24.9	1.839	2.800	6.4	21.1
11 7	3 2.23	+13 22.5	1.055	2.045	2.1	18.8	11 7	3 2.14	+23 29.9	1.827	2.812	2.8	20.8
11 17	2 52.07	+13 16.7	1.053	2.033	5.2	19.0	11 17	2 52.61	+22 26.1	1.844	2.824	3.3	20.9
11 27	2 43.04	+13 18.6	1.075	2.022	10.8	19.3	11 27	2 44.13	+21 19.6	1.890	2.836	7.0	21.2
12 7	2 36.52	+13 31.9	1.120	2.013	15.9	19.5	12 7	2 37.55	+20 17.1	1.963	2.847	10.6	21.4
12 17	2 33.38	+13 58.9	1.183	2.005	20.2	19.8	12 17	2 33.37	+19 23.7	2.060	2.857	13.6	21.6
<b>56000</b>	Mesopotamia	11	9.6 326°75	3°2/10.7	18		<b>209305</b>	2003 <i>YX</i> <sub>139</sub>	11	9.6 209°14	2°9/ 7.8	18	
10 8	3 27.35	+21 57.7	1.238	2.103	17.9	18.6	10 8	3 25.70	+ 9 12.5	2.058	2.915	12.1	20.4
10 18	3 22.21	+22 43.9	1.161	2.087	13.6	18.3	10 18	3 19.48	+ 8 53.0	1.986	2.911	8.8	20.2
10 28	3 13.64	+23 19.3	1.105	2.072	8.6	18.0	10 28	3 11.37	+ 8 33.3	1.939	2.908	5.3	20.0
11 7	3 2.65	+23 41.5	1.072	2.057	3.9	17.7	11 7	3 2.11	+ 8 16.5	1.920	2.904	2.9	19.8
11 17	2 50.81	+23 50.1	1.064	2.044	5.0	17.7	11 17	2 52.62	+ 8 6.0	1.931	2.900	4.8	19.9
11 27	2 40.07	+23 48.8	1.080	2.031	10.2	18.0	11 27	2 43.91	+ 8 4.6	1.970	2.895	8.3	20.2
12 7	2 32.06	+23 44.2	1.120	2.020	15.3	18.2	12 7	2 36.80	+ 8 14.3	2.036	2.890	11.6	20.4
12 17	2 27.79	+23 42.8	1.179	2.009	19.8	18.5	12 17	2 31.86	+ 8 35.8	2.124	2.885	14.5	20.6
<b>333224</b>	2012 <i>HB</i> <sub>40</sub>	11	9.6 167°58	0°1/ 9.6	16		<b>323232</b>	2003 <i>SB</i> <sub>156</sub>	11	9.6 73°99	6°0/13.6	18	
10 8	3 30.15	+17 53.3	1.854	2.699	13.7	21.8	10 8	3 29.39	+34 32.1	2.259	3.042	13.6	20.5
10 18	3 22.88	+17 44.2	1.784	2.704	10.0	21.6	10 18	3 22.41	+35 27.5	2.189	3.051	11.1	20.3
10 28	3 13.37	+17 27.1	1.740	2.709	5.8	21.3	10 28	3 13.17	+36 6.7	2.142	3.060	8.5	20.2
11 7	3 2.50	+17 3.9	1.723	2.713	1.2	21.0	11 7	3 2.50	+36 26.8	2.122	3.070	6.5	20.1
11 17	2 51.43	+16 37.5	1.736	2.716	3.4	21.2	11 17	2 51.49	+36 27.1	2.129	3.080	6.1	20.1
11 27	2 41.36	+16 12.5	1.778	2.718	7.8	21.5	11 27	2 41.36	+36 10.4	2.166	3.089	7.7	20.2
12 7	2 33.27	+15 53.3	1.847	2.720	11.7	21.7	12 7	2 33.10	+35 42.1	2.229	3.099	10.1	20.3
12 17	2 27.77	+15 43.2	1.939	2.720	15.0	21.9	12 17	2 27.38	+35 8.5	2.316	3.108	12.5	20.5
<b>187124</b>	2005 <i>QX</i> <sub>84</sub>	11	9.6 87°81	2°2/ 8.3	18		<b>73141</b>	2002 <i>GK</i> <sub>87</sub>	11	9.6 138°46	2°0/ 8.4	18	
10 8	3 27.33	+14 19.3	1.516	2.381	15.1	20.4	10 8	3 26.01	+12 49.0	1.845	2.704	13.1	19.9
10 18	3 20.87	+13 26.6	1.470	2.401	10.8	20.2	10 18	3 19.82	+12 24.2	1.782	2.709	9.5	19.6
10 28	3 12.14	+12 27.8	1.448	2.421	6.2	20.0	10 28	3 11.58	+11 55.8	1.743	2.715	5.5	19.4
11 7	3 2.21	+11 28.4	1.453	2.441	2.3	19.8	11 7	3 2.15	+11 27.1	1.732	2.720	2.1	19.2
11 17	2 52.35	+10 34.6	1.486	2.461	4.9	20.0	11 17	2 52.57	+11 2.0	1.749	2.724	4.3	19.4
11 27	2 43.79	+ 9 52.4	1.546	2.480	9.3	20.3	11 27	2 43.93	+10 44.6	1.795	2.729	8.3	19.6
12 7	2 37.43	+ 9 25.8	1.631	2.499	13.2	20.6	12 7	2 37.11	+10 37.8	1.867	2.733	11.9	19.9
12 17	2 33.77	+ 9 16.1	1.736	2.518	16.4	20.9	12 17	2 32.65	+10 43.3	1.961	2.737	15.0	20.1
<b>260881</b>	2005 <i>QP</i> <sub>133</sub>	11	9.6 144°96	0°5/ 9.9	18		<b>229832</b>	2008 <i>WQ</i> <sub>33</sub>	11	9.6			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>482297</b>	2011 <i>UJ</i> <sub>6</sub>		11 9.6 275°67	0°1/ 9.6 18			<b>37171</b>	2000 <i>WO</i> <sub>28</sub>		11 9.6 97°85	8°9/ 4.1 18		
10 8	3 26.36	+17 5.0	1.901	2.753	13.1	21.3	10 8	3 25.37	- 4 51.4	1.720	2.574	14.2	18.2
10 18	3 20.27	+17 12.4	1.821	2.744	9.6	21.0	10 18	3 19.25	- 6 8.8	1.683	2.588	11.5	18.1
10 28	3 11.98	+17 13.8	1.765	2.735	5.6	20.8	10 28	3 11.18	- 7 13.1	1.669	2.602	9.4	18.0
11 7	3 2.27	+17 10.3	1.736	2.726	1.2	20.4	11 7	3 2.07	- 7 57.1	1.681	2.615	9.0	18.0
11 17	2 52.18	+17 4.0	1.737	2.718	3.3	20.6	11 17	2 52.99	- 8 15.9	1.718	2.628	10.4	18.1
11 27	2 42.88	+16 58.2	1.766	2.709	7.6	20.8	11 27	2 44.98	- 8 7.7	1.780	2.641	12.7	18.3
12 7	2 35.37	+16 56.5	1.822	2.700	11.5	21.1	12 7	2 38.84	- 7 34.4	1.864	2.654	15.2	18.5
12 17	2 30.30	+17 1.8	1.900	2.691	14.9	21.3	12 17	2 35.05	- 6 39.7	1.967	2.667	17.4	18.7
<b>421673</b>	2014 <i>OX</i> <sub>378</sub>		11 9.6 57°05	5°4/ 5.8 18			<b>9653</b>	1996 <i>AL</i> <sub>2</sub>		11 9.6 155°50	6°2/ 5.6 18		
10 8	3 21.63	+ 3 10.4	2.002	2.867	12.0	20.8	10 8	3 25.45	- 0 41.0	2.102	2.953	12.1	17.8
10 18	3 16.42	+ 2 13.4	1.952	2.876	9.1	20.7	10 18	3 19.13	- 1 26.4	2.047	2.959	9.4	17.6
10 28	3 9.53	+ 1 20.9	1.927	2.885	6.4	20.5	10 28	3 11.08	- 2 4.3	2.017	2.964	7.0	17.5
11 7	3 1.72	+ 0 38.1	1.929	2.895	5.4	20.5	11 7	3 2.07	- 2 29.9	2.014	2.969	6.2	17.5
11 17	2 53.84	+ 0 9.5	1.958	2.904	6.9	20.6	11 17	2 52.96	- 2 39.3	2.040	2.973	7.6	17.6
11 27	2 46.80	- 0 1.8	2.015	2.914	9.6	20.8	11 27	2 44.69	- 2 30.5	2.093	2.977	10.1	17.7
12 7	2 41.31	+ 0 4.8	2.096	2.924	12.4	21.0	12 7	2 38.00	- 2 3.7	2.171	2.981	12.7	17.9
12 17	2 37.81	+ 0 28.4	2.198	2.934	14.8	21.2	12 17	2 33.36	- 1 20.7	2.270	2.984	14.9	18.1
<b>219943</b>	2002 <i>GS</i> <sub>148</sub>		11 9.6 248°90	0°7/10.1 18			<b>290176</b>	2005 <i>RB</i> <sub>42</sub>		11 9.6 2°99	0°3/ 9.5 18		
10 8	3 22.83	+20 44.7	2.193	3.036	11.9	20.5	10 8	3 20.73	+18 36.1	1.033	1.923	18.5	20.3
10 18	3 17.41	+20 27.3	2.115	3.033	8.8	20.3	10 18	3 17.24	+18 8.4	0.979	1.921	13.6	20.1
10 28	3 10.19	+20 0.6	2.062	3.030	5.2	20.1	10 28	3 10.61	+17 26.7	0.944	1.920	7.8	19.7
11 7	3 1.88	+19 26.3	2.038	3.027	1.4	19.8	11 7	3 2.02	+16 35.5	0.931	1.921	1.6	19.4
11 17	2 53.35	+18 47.5	2.042	3.023	2.8	19.9	11 17	2 53.11	+15 42.2	0.941	1.924	4.8	19.6
11 27	2 45.57	+18 8.5	2.076	3.020	6.6	20.2	11 27	2 45.65	+14 55.8	0.975	1.928	10.8	19.9
12 7	2 39.31	+17 33.7	2.137	3.016	10.0	20.4	12 7	2 40.95	+14 23.8	1.030	1.933	16.0	20.3
12 17	2 35.12	+17 6.7	2.222	3.013	13.0	20.6	12 17	2 39.67	+14 10.1	1.103	1.940	20.3	20.6
<b>139678</b>	2001 <i>QG</i> <sub>205</sub>		11 9.6 207°64	3°6/11.9 18			<b>211576</b>	2003 <i>SL</i> <sub>167</sub>		11 9.6 331°70	0°5/ 9.4 18		
10 8	3 27.88	+28 7.8	1.777	2.603	15.0	20.4	10 8	3 23.86	+15 58.4	1.327	2.203	16.2	19.3
10 18	3 21.59	+28 2.9	1.699	2.600	11.6	20.1	10 18	3 19.28	+16 3.7	1.250	2.185	11.9	19.0
10 28	3 12.79	+27 40.4	1.643	2.596	7.8	19.9	10 28	3 11.79	+16 2.4	1.194	2.168	6.9	18.7
11 7	3 2.45	+27 0.1	1.613	2.592	4.3	19.7	11 7	3 2.31	+15 56.4	1.162	2.152	1.5	18.3
11 17	2 51.77	+26 4.8	1.611	2.587	4.3	19.7	11 17	2 52.21	+15 49.0	1.156	2.137	4.4	18.5
11 27	2 42.13	+25 0.6	1.637	2.582	7.9	19.9	11 27	2 43.09	+15 44.8	1.175	2.123	9.9	18.7
12 7	2 34.62	+23 55.4	1.690	2.577	11.8	20.1	12 7	2 36.32	+15 48.4	1.217	2.111	14.9	19.0
12 17	2 29.91	+22 56.5	1.765	2.572	15.2	20.3	12 17	2 32.75	+16 3.1	1.279	2.099	19.1	19.2
<b>228919</b>	2003 <i>SN</i> <sub>225</sub>		11 9.6 353°79	0°9/ 9.1 17			<b>276991</b>	2004 <i>XE</i> <sub>32</sub>		11 9.6 56°03	1°6/10.7 18		
10 8	3 20.76	+15 58.7	1.676	2.545	13.7	19.9	10 8	3 27.59	+24 5.6	1.371	2.224	17.1	19.2
10 18	3 16.31	+15 39.2	1.607	2.540	10.0	19.7	10 18	3 21.25	+23 26.8	1.333	2.254	12.6	19.0
10 28	3 9.72	+15 12.8	1.562	2.535	5.7	19.4	10 28	3 12.41	+22 31.1	1.317	2.284	7.6	18.8
11 7	3 1.79	+14 42.7	1.542	2.532	1.3	19.1	11 7	3 2.33	+21 22.4	1.326	2.314	2.6	18.6
11 17	2 53.60	+14 13.0	1.549	2.529	3.8	19.3	11 17	2 52.46	+20 7.6	1.362	2.344	3.7	18.8
11 27	2 46.30	+13 48.4	1.584	2.527	8.3	19.6	11 27	2 44.15	+18 55.3	1.425	2.374	8.4	19.1
12 7	2 40.83	+13 33.2	1.643	2.526	12.3	19.8	12 7	2 38.35	+17 53.2	1.514	2.404	12.7	19.5
12 17	2 37.79	+13 29.9	1.724	2.526	15.7	20.1	12 17	2 35.46	+17 6.0	1.624	2.435	16.1	19.8
<b>141014</b>	2001 <i>WJ</i> <sub>44</sub>		11 9.6 104°26	0°7/ 9.2 18			<b>446039</b>	2013 <i>CW</i> <sub>102</sub>		11 9.6 49°91	3°5/ 7.6 18		
10 8	3 24.14	+16 17.8	1.982	2.837	12.5	20.6	10 8	3 24.49	+ 9 17.9	1.645	2.514	13.9	20.5
10 18	3 18.43	+16 1.2	1.913	2.839	9.1	20.4	10 18	3 18.81	+ 8 45.1	1.594	2.525	10.1	20.3
10 28	3 10.79	+15 38.5	1.869	2.840	5.2	20.2	10 28	3 11.03	+ 8 12.1	1.566	2.536	6.1	20.1
11 7	3 2.01	+15 12.1	1.852	2.842	1.1	19.9	11 7	3 2.07	+ 7 43.4	1.565	2.548	3.5	19.9
11 17	2 53.03	+14 45.2	1.865	2.844	3.4	20.1	11 17	2 53.04	+ 7 23.5	1.591	2.560	5.6	20.1
11 27	2 44.89	+14 21.9	1.906	2.846	7.4	20.3	11 27	2 45.06	+ 7 16.0	1.644	2.572	9.4	20.4
12 7	2 38.43	+14 5.9	1.973	2.848	11.0	20.5	12 7	2 39.02	+ 7 22.9	1.722	2.584	13.0	20.6
12 17	2 34.19	+13 59.7	2.064	2.849	14.0	20.7	12 17	2 35.44	+ 7 44.2	1.821	2.597	16.0	20.8
<b>102358</b>	1999 <i>TN</i> <sub>134</sub>		11 9.6 127°63	1°6/10.7 18 R			<b>213450</b>	2002 <i>CZ</i> <sub>11</sub>		11 9.6 142°06	2°1/10.6 18		
10 8	3 27.42	+22 44.3	1.976	2.813	13.3	19.9	10 8	3 29.79	+22 7.9	1.360	2.215	17.1	19.9
10 18	3 20.80	+22 38.9	1.912	2.824	9.9	19.7	10 18	3 23.45	+22 18.1	1.294	2.216	12.8	19.6
10 28	3 12.13	+22 22.1	1.872	2.835	6.0	19.5	10 28	3 14.06	+22 14.5	1.250	2.217	7.9	19.4
11 7	3 2.28	+21 55.1	1.859	2.846	2.2	19.3	11 7	3 2.76	+21 57.4	1.230	2.218	2.9	19.1
11 17	2 52.31	+21 20.7	1.876	2.857	3.1	19.4	11 17	2 51.07	+21 29.4	1.237	2.219	4.2	19.2
11 27	2 43.31	+20 43.5	1.922	2.867	7.0	19.6	11 27	2 40.70	+20 56.8	1.271	2.220	9.3	19.5
12 7	2 36.17	+20 8.8	1.995	2.876	10.6	19.9	12 7	2 32.95	+20 26.9	1.329	2.220	14.0	19.7
12 17	2 31.43	+19 40.9	2.092	2.885	13.6	20.1	12 17	2 28.55	+20 5.5	1.407	2.221	18.0	20.0
<b>18460</b>	Pecková		11 9.6 325°17	10°7/15.3 18			<b>201093</b>	2002 <i>GT</i> <sub>94</sub>		11 9.6 296°28	0°7/ 9.2 18		
10 8	3 29.09	+40 34.2	1.527	2.310	19.0	18.5	10 8	3 24.01	+17 35.0	1.608	2.471	14.5	20.5
10 18	3 23.62	+41 50.0	1.447	2.298	16.4	18.3	10 18	3 18.83	+17 0.0	1.532	2.461	10.6	20.3
10 28	3 14.55	+42 40.4	1.386	2.286	13.6	18.1	10 28	3 11.25	+16 14.8	1.479	2.451	6.1	20.0
11 7	3 2.91	+42 58.4	1.346	2.275	11.4	17.9	11 7	3 2.16	+15 22.9	1.452	2.442	1.3	19.6
11 17	2 50.38	+42 40.3	1.330	2.264	10.7	17.9	11 17	2 52.72	+14 29.7	1.453	2.432	4.0	19.8
11 27	2 39.04	+41 49.4	1.337	2.254	12.0	17.9	11 27	2 44.22	+13 41.5	1.481	2.423	8.8	20.1
12 7	2 30.63	+40 35.6	1.367	2.245	14.7	18.1	12 7	2 37.73	+13 4.3	1.533	2.414	13.2	20.3
12 17	2 26.14	+39 11.5	1.418	2.236	17.7	18.2	12 17	2 33.93	+12 41.8	1.607	2.405	16.8	20.5
<b>370625</b>	2003 <i>YA</i> <sub>53</sub>		11 9.6 18°09	1°7/10.5 18			<b>301366</b>	2009 <i>CX</i> <sub>44</sub>		11 9.6 181°98	6		

EPHEMERIDES

11 9.6

11 9.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>511938</b>	2015 <i>HT</i> <sub>170</sub>	11	9.6 156°11	0°3/ 9.4 18			<b>430739</b>	2004 <i>HA</i> <sub>32</sub>	11	9.6 130°36	0°2/ 9.5 18		
10 8	3 28.55	+17 9.4	1.971	2.817	13.0	22.1	10 8	3 29.47	+17 14.2	1.751	2.602	14.1	21.2
10 18	3 21.61	+16 57.9	1.904	2.825	9.4	21.9	10 18	3 22.46	+17 9.2	1.690	2.613	10.3	21.0
10 28	3 12.61	+16 39.6	1.862	2.832	5.4	21.7	10 28	3 13.19	+16 56.8	1.653	2.623	5.9	20.8
11 7	3 2.42	+16 16.3	1.848	2.838	1.1	21.4	11 7	3 2.59	+16 39.0	1.644	2.634	1.2	20.5
11 17	2 52.06	+15 51.1	1.864	2.844	3.3	21.5	11 17	2 51.85	+16 18.8	1.663	2.643	3.5	20.7
11 27	2 42.65	+15 28.1	1.909	2.849	7.4	21.8	11 27	2 42.19	+16 0.5	1.711	2.653	8.0	20.9
12 7	2 35.05	+15 11.3	1.982	2.853	11.1	22.1	12 7	2 34.59	+15 48.3	1.785	2.661	11.9	21.2
12 17	2 29.84	+15 3.4	2.077	2.857	14.2	22.3	12 17	2 29.62	+15 45.1	1.882	2.670	15.1	21.4
<b>388134</b>	2005 <i>VS</i> <sub>113</sub>	11	9.6 317°31	1°7/10.4 18			<b>512015</b>	2015 <i>LJ</i> <sub>31</sub>	11	9.6 251°85	0°4/ 9.4 18		
10 8	3 25.27	+21 22.9	1.364	2.227	16.6	20.9	10 8	3 26.07	+18 8.4	1.814	2.666	13.6	21.5
10 18	3 20.33	+21 28.5	1.285	2.212	12.5	20.6	10 18	3 20.20	+17 39.6	1.728	2.652	10.0	21.3
10 28	3 12.40	+21 21.2	1.228	2.197	7.6	20.3	10 28	3 12.04	+17 1.1	1.666	2.637	5.8	21.0
11 7	3 2.45	+21 1.4	1.194	2.183	2.6	20.0	11 7	3 2.38	+16 15.3	1.631	2.621	1.2	20.6
11 17	2 51.88	+20 32.0	1.187	2.169	4.1	20.0	11 17	2 52.32	+15 26.6	1.625	2.605	3.6	20.8
11 27	2 42.35	+19 58.9	1.205	2.155	9.4	20.3	11 27	2 43.08	+14 40.8	1.648	2.589	8.2	21.0
12 7	2 35.24	+19 29.3	1.247	2.143	14.4	20.5	12 7	2 35.69	+14 3.3	1.696	2.572	12.4	21.2
12 17	2 31.40	+19 9.3	1.308	2.131	18.6	20.8	12 17	2 30.84	+13 38.3	1.767	2.555	15.9	21.4
<b>19331</b>	Stefanovitale	11	9.6 267°96	2°5/ 8.2 18			<b>171030</b>	2005 <i>EN</i> <sub>60</sub>	11	9.6 95°10	0°6/10.1 18		
10 8	3 26.76	+10 57.2	1.831	2.690	13.2	19.0	10 8	3 25.29	+20 42.6	1.831	2.680	13.7	20.0
10 18	3 20.66	+10 40.9	1.745	2.673	9.7	18.8	10 18	3 19.38	+20 19.6	1.769	2.690	10.0	19.8
10 28	3 12.28	+10 22.6	1.684	2.655	5.7	18.5	10 28	3 11.39	+19 45.8	1.731	2.700	5.9	19.6
11 7	3 2.40	+10 5.5	1.650	2.636	2.6	18.3	11 7	3 2.21	+19 3.6	1.720	2.709	1.5	19.3
11 17	2 52.07	+9 53.1	1.645	2.618	4.8	18.4	11 17	2 52.92	+18 17.0	1.738	2.719	3.2	19.5
11 27	2 42.47	+9 49.3	1.668	2.599	9.0	18.6	11 27	2 44.64	+17 31.6	1.784	2.728	7.4	19.8
12 7	2 34.66	+9 56.7	1.716	2.580	12.9	18.8	12 7	2 38.24	+16 52.5	1.856	2.738	11.2	20.0
12 17	2 29.34	+10 16.8	1.787	2.561	16.3	19.0	12 17	2 34.26	+16 23.7	1.951	2.747	14.4	20.3
<b>25834</b>	Vechinski	11	9.6 16°91	2°9/ 8.1 18			<b>106776</b>	2000 <i>XP</i> <sub>18</sub>	11	9.6 36°06	4°1/11.6 18		
10 8	3 23.88	+11 19.1	1.498	2.372	14.8	17.9	10 8	3 29.35	+25 49.7	1.726	2.558	15.1	18.9
10 18	3 18.65	+10 52.0	1.441	2.375	10.7	17.6	10 18	3 22.69	+26 45.0	1.665	2.569	11.6	18.7
10 28	3 11.08	+10 22.6	1.406	2.379	6.3	17.4	10 28	3 13.48	+27 27.4	1.627	2.580	7.8	18.5
11 7	3 2.12	+9 55.1	1.397	2.384	2.9	17.2	11 7	3 2.68	+27 54.6	1.615	2.592	4.6	18.3
11 17	2 52.97	+9 34.3	1.415	2.389	5.3	17.4	11 17	2 51.58	+28 6.4	1.631	2.605	4.8	18.3
11 27	2 44.91	+9 24.6	1.459	2.394	9.6	17.6	11 27	2 41.57	+28 5.9	1.675	2.617	8.0	18.6
12 7	2 38.93	+9 28.7	1.527	2.400	13.7	17.9	12 7	2 33.75	+27 58.4	1.745	2.631	11.5	18.8
12 17	2 35.61	+9 47.3	1.615	2.407	17.0	18.2	12 17	2 28.80	+27 49.6	1.837	2.644	14.7	19.1
<b>25134</b>	1998 <i>SC</i> <sub>17</sub>	11	9.6 349°90	1°0/ 8.9 18			<b>96098</b>	2143 <i>T</i> <sub>-2</sub>	11	9.6 127°11	3°8/12.5 18		
10 8	3 21.67	+15 35.5	1.860	2.723	12.8	18.8	10 8	3 26.68	+29 44.4	2.385	3.190	12.3	19.9
10 18	3 16.80	+15 12.5	1.789	2.719	9.3	18.6	10 18	3 20.20	+30 6.0	2.313	3.198	9.6	19.8
10 28	3 9.94	+14 43.3	1.743	2.716	5.3	18.3	10 28	3 11.83	+30 14.1	2.265	3.207	6.8	19.6
11 7	3 1.88	+14 11.1	1.723	2.713	1.4	18.0	11 7	3 2.31	+30 7.9	2.245	3.215	4.3	19.5
11 17	2 53.59	+13 39.6	1.732	2.710	3.7	18.2	11 17	2 52.60	+29 48.4	2.254	3.222	4.2	19.5
11 27	2 46.12	+13 13.4	1.768	2.708	7.8	18.5	11 27	2 43.67	+29 18.8	2.292	3.230	6.4	19.6
12 7	2 40.33	+12 56.1	1.830	2.707	11.6	18.7	12 7	2 36.38	+28 44.2	2.358	3.237	9.2	19.8
12 17	2 36.81	+12 50.4	1.914	2.706	14.7	18.9	12 17	2 31.27	+28 9.4	2.448	3.244	11.8	20.0
<b>28831</b>	Abu-Alshaikh	11	9.6 19°56	0°5/ 9.9 18			<b>355658</b>	2008 <i>ES</i> <sub>89</sub>	11	9.6 106°97	3°7/12.5 18		
10 8	3 23.45	+20 29.2	1.823	2.675	13.6	18.7	10 8	3 26.15	+29 41.7	2.244	3.053	12.9	20.5
10 18	3 18.12	+20 0.2	1.753	2.676	10.0	18.5	10 18	3 19.83	+29 48.6	2.177	3.066	10.0	20.4
10 28	3 10.70	+19 20.1	1.708	2.677	5.8	18.3	10 28	3 11.60	+29 40.8	2.134	3.079	6.9	20.2
11 7	3 2.04	+18 31.6	1.689	2.678	1.4	18.0	11 7	3 2.26	+29 18.1	2.119	3.091	4.3	20.1
11 17	2 53.19	+17 39.0	1.698	2.679	3.2	18.1	11 17	2 52.79	+28 42.4	2.132	3.104	4.1	20.1
11 27	2 45.26	+16 48.0	1.736	2.681	7.5	18.4	11 27	2 44.23	+27 57.8	2.175	3.116	6.5	20.3
12 7	2 39.16	+16 4.3	1.799	2.682	11.4	18.6	12 7	2 37.39	+27 9.9	2.245	3.128	9.5	20.5
12 17	2 35.45	+15 31.8	1.886	2.683	14.7	18.8	12 17	2 32.79	+26 24.3	2.340	3.140	12.1	20.7
<b>310014</b>	2009 <i>KZ</i> <sub>17</sub>	11	9.6 230°21	4°5/ 7.0 18			<b>10247</b>	Amphiarao	11	9.6 271°51	0°9/ 8.4 18 R		
10 8	3 25.45	+4 39.9	1.993	2.851	12.3	20.7	10 8	3 14.59	+13 29.7	4.426	5.274	6.3	18.4
10 18	3 19.34	+4 16.7	1.925	2.848	9.2	20.5	10 18	3 10.75	+13 7.3	4.350	5.273	4.5	18.3
10 28	3 11.33	+3 57.1	1.883	2.845	6.1	20.3	10 28	3 6.14	+12 43.1	4.302	5.273	2.6	18.2
11 7	3 2.18	+3 45.2	1.868	2.842	4.5	20.2	11 7	3 1.10	+12 18.5	4.284	5.272	0.9	18.0
11 17	2 52.82	+3 44.1	1.881	2.839	6.1	20.3	11 17	2 55.98	+11 55.2	4.297	5.272	2.0	18.1
11 27	2 44.26	+3 56.5	1.923	2.836	9.2	20.5	11 27	2 51.16	+11 34.8	4.341	5.271	3.9	18.3
12 7	2 37.33	+4 22.9	1.990	2.832	12.4	20.7	12 7	2 47.01	+11 18.9	4.414	5.271	5.8	18.4
12 17	2 32.58	+5 2.8	2.079	2.829	15.1	20.9	12 17	2 43.77	+11 8.5	4.512	5.270	7.4	18.5
<b>399835</b>	2005 <i>TM</i> <sub>161</sub>	11	9.6 88°03	3°3/11.8 18			<b>359780</b>	2011 <i>UP</i> <sub>146</sub>	11	9.6 350°24	0°4/ 9.8 17		
10 8	3 27.44	+26 54.9	2.077	2.898	13.3	21.6	10 8	3 23.11	+18 10.1	1.393	2.264	15.8	20.4
10 18	3 20.85	+27 16.1	2.014	2.912	10.2	21.4	10 18	3 18.52	+18 14.6	1.324	2.256	11.7	20.1
10 28	3 12.21	+27 24.1	1.975	2.927	6.8	21.2	10 28	3 11.24	+18 10.1	1.277	2.250	6.8	19.8
11 7	3 2.36	+27 18.6	1.963	2.941	3.8	21.1	11 7	3 2.23	+17 58.3	1.255	2.245	1.6	19.5
11 17	2 52.35	+27 0.8	1.981	2.955	3.9	21.1	11 17	2 52.81	+17 42.3	1.258	2.240	3.9	19.6
11 27	2 43.30	+26 34.5	2.027	2.969	6.8	21.3	11 27	2 44.45	+17 27.3	1.287	2.237	9.1	19.9
12 7	2 36.08	+26 5.1	2.100	2.983	10.0	21.5	12 7	2 38.34	+17 18.2	1.340	2.235	13.7	20.2
12 17	2 31.25	+25 37.4	2.198	2.997	12.8	21.7	12 17	2 35.22	+17 18.9	1.413	2.233	17.6	20.4
<b>112525</b>	2002 <i>PQ</i> <sub>31</sub>	11	9.6 0°15	3°6/ 7.1 18			<b>376825</b>	2001 <i>FP</i> <sub>59</sub>	11	9.6 200°92	2°3/10.9 17		
10 8	3 20.18	+9 8.9											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>277265</b>	2005 SW <sub>31</sub>	11	9.6 351°70	1°2/ 9.1 18			<b>234682</b>	2002 GF <sub>83</sub>	11	9.6 149°56	3°1/ 7.5 18		
10 8	3 26.00	+15 21.1	1.363	2.235	16.1	20.3	10 8	3 25.20	+10 0.9	1.995	2.854	12.3	21.2
10 18	3 20.56	+15 7.1	1.299	2.233	11.7	20.0	10 18	3 19.11	+9 15.6	1.934	2.861	8.9	21.0
10 28	3 12.38	+14 46.0	1.257	2.231	6.7	19.7	10 28	3 11.18	+8 28.7	1.898	2.867	5.4	20.8
11 7	3 2.47	+14 21.2	1.239	2.229	1.7	19.4	11 7	3 2.20	+7 44.5	1.890	2.873	3.1	20.7
11 17	2 52.24	+13 57.0	1.248	2.228	4.6	19.6	11 17	2 53.12	+7 7.6	1.912	2.879	5.0	20.8
11 27	2 43.17	+13 39.0	1.283	2.227	9.7	19.9	11 27	2 44.91	+6 41.9	1.962	2.884	8.5	21.0
12 7	2 36.47	+13 31.7	1.342	2.227	14.3	20.2	12 7	2 38.36	+6 30.1	2.038	2.888	11.7	21.3
12 17	2 32.82	+13 37.8	1.420	2.227	18.2	20.4	12 17	2 33.98	+6 32.8	2.136	2.893	14.5	21.5
<b>315065</b>	2007 DC <sub>33</sub>	11	9.6 145°62	1°9/ 8.1 18			<b>290578</b>	2005 UP <sub>138</sub>	11	9.6 357°18	0°9/ 8.9 18		
10 8	3 22.36	+12 23.4	2.411	3.265	10.6	21.1	10 8	3 20.96	+18 8.7	1.773	2.636	13.4	20.4
10 18	3 16.83	+11 49.4	2.345	3.270	7.6	20.9	10 18	3 16.35	+17 10.6	1.704	2.634	9.7	20.2
10 28	3 9.79	+11 12.6	2.305	3.275	4.4	20.7	10 28	3 9.72	+16 1.9	1.660	2.633	5.5	19.9
11 7	3 1.89	+10 36.1	2.294	3.280	1.9	20.5	11 7	3 1.91	+14 47.3	1.642	2.632	1.3	19.7
11 17	2 53.88	+10 3.1	2.313	3.285	3.7	20.7	11 17	2 53.92	+13 32.7	1.652	2.631	3.8	19.8
11 27	2 46.56	+9 37.2	2.361	3.290	6.9	20.9	11 27	2 46.84	+12 25.3	1.691	2.631	8.1	20.1
12 7	2 40.58	+9 20.9	2.437	3.294	9.8	21.1	12 7	2 41.52	+11 30.5	1.755	2.632	12.0	20.3
12 17	2 36.39	+9 15.6	2.536	3.298	12.4	21.2	12 17	2 38.51	+10 51.9	1.841	2.633	15.3	20.6
<b>224965</b>	2007 ES <sub>42</sub>	11	9.6 107°33	5°1/13.5 18			<b>225678</b>	2001 PC <sub>43</sub>	11	9.6 77°78	3°6/ 8.0 18		
10 8	3 28.43	+33 34.3	2.457	3.241	12.6	20.6	10 8	3 28.90	+9 13.1	1.457	2.325	15.5	20.0
10 18	3 21.50	+34 11.5	2.389	3.255	10.2	20.4	10 18	3 22.21	+8 51.4	1.410	2.340	11.2	19.8
10 28	3 12.60	+34 33.5	2.344	3.268	7.6	20.3	10 28	3 13.08	+8 30.1	1.385	2.356	6.7	19.6
11 7	3 2.50	+34 38.5	2.327	3.281	5.5	20.2	11 7	3 2.61	+8 13.3	1.387	2.371	3.6	19.4
11 17	2 52.19	+34 26.7	2.338	3.294	5.2	20.2	11 17	2 52.10	+8 5.4	1.416	2.387	5.8	19.6
11 27	2 42.70	+34 1.2	2.378	3.307	6.8	20.3	11 27	2 42.90	+8 9.5	1.472	2.402	10.0	19.9
12 7	2 34.92	+33 27.1	2.446	3.319	9.2	20.5	12 7	2 35.98	+8 27.4	1.551	2.417	13.9	20.2
12 17	2 29.41	+32 49.8	2.539	3.331	11.5	20.6	12 17	2 31.89	+8 58.8	1.652	2.432	17.2	20.4
<b>392000</b>	2008 YJ <sub>119</sub>	11	9.6 93°96	6°7/ 5.6 18			<b>66079</b>	1998 RA <sub>54</sub>	11	9.6 55°02	2°0/ 8.0 18		
10 8	3 25.50	- 0 27.2	1.867	2.724	13.1	20.5	10 8	3 21.14	+14 19.8	2.039	2.900	12.0	19.0
10 18	3 19.25	- 1 21.2	1.826	2.741	10.1	20.3	10 18	3 16.15	+13 20.7	1.979	2.908	8.6	18.8
10 28	3 11.20	- 2 6.8	1.808	2.757	7.6	20.2	10 28	3 9.47	+12 16.1	1.944	2.917	4.9	18.6
11 7	3 2.18	- 2 38.3	1.818	2.773	6.7	20.2	11 7	3 1.84	+11 10.5	1.938	2.925	2.0	18.4
11 17	2 53.19	- 2 51.6	1.855	2.789	8.2	20.3	11 17	2 54.14	+10 9.2	1.960	2.934	4.1	18.6
11 27	2 45.18	- 2 44.7	1.918	2.805	10.7	20.5	11 27	2 47.27	+9 17.4	2.011	2.943	7.7	18.8
12 7	2 38.93	- 2 18.3	2.006	2.820	13.4	20.7	12 7	2 41.94	+8 38.6	2.089	2.951	11.0	19.0
12 17	2 34.89	- 1 34.7	2.113	2.835	15.7	20.9	12 17	2 38.62	+8 14.9	2.189	2.961	13.8	19.2
<b>177462</b>	2004 DP <sub>42</sub>	11	9.6 225°02	4°3/ 6.3 18			<b>228067</b>	2008 OL <sub>7</sub>	11	9.6 176°96	3°8/ 12.9 18		
10 8	3 23.00	+ 5 45.6	2.212	3.070	11.3	20.9	10 8	3 24.02	+31 12.9	2.426	3.228	12.2	20.3
10 18	3 17.46	+ 4 52.4	2.139	3.063	8.4	20.7	10 18	3 18.29	+31 11.3	2.346	3.229	9.6	20.1
10 28	3 10.24	+ 4 0.2	2.093	3.055	5.6	20.5	10 28	3 10.75	+30 54.6	2.290	3.229	6.8	20.0
11 7	3 2.01	+ 3 13.8	2.075	3.047	4.3	20.4	11 7	3 2.13	+30 22.7	2.261	3.230	4.4	19.8
11 17	2 53.58	+ 2 37.7	2.085	3.039	6.0	20.5	11 17	2 53.32	+29 37.4	2.260	3.230	4.1	19.8
11 27	2 45.82	+ 2 15.7	2.124	3.030	8.8	20.6	11 27	2 45.27	+28 42.7	2.289	3.230	6.3	19.9
12 7	2 39.49	+ 2 9.5	2.189	3.021	11.8	20.8	12 7	2 38.77	+27 44.4	2.346	3.230	9.1	20.1
12 17	2 35.10	+ 2 19.3	2.275	3.012	14.3	21.0	12 17	2 34.36	+26 47.8	2.428	3.230	11.7	20.3
<b>322964</b>	2002 JF <sub>140</sub>	11	9.6 89°31	4°1/ 7.6 17			<b>483725</b>	2005 TX <sub>95</sub>	11	9.6 73°92	2°1/ 11.0 17		
10 8	3 30.63	+ 8 52.3	1.470	2.335	15.5	20.8	10 8	3 25.21	+23 46.1	2.022	2.858	13.1	21.8
10 18	3 23.22	+ 8 8.2	1.433	2.362	11.2	20.6	10 18	3 19.33	+23 51.7	1.951	2.862	9.8	21.6
10 28	3 13.52	+ 7 24.7	1.420	2.389	6.8	20.5	10 28	3 11.42	+23 45.9	1.905	2.866	6.2	21.4
11 7	3 2.66	+ 6 47.3	1.433	2.415	4.1	20.4	11 7	3 2.28	+23 29.3	1.885	2.870	2.7	21.2
11 17	2 51.97	+ 6 21.0	1.474	2.441	6.3	20.6	11 17	2 52.93	+23 4.0	1.895	2.874	3.3	21.2
11 27	2 42.70	+ 6 9.8	1.542	2.466	10.2	20.9	11 27	2 44.43	+22 34.0	1.933	2.879	6.8	21.4
12 7	2 35.77	+ 6 15.0	1.634	2.490	13.9	21.1	12 7	2 37.69	+22 4.2	1.998	2.883	10.3	21.7
12 17	2 31.62	+ 6 36.2	1.747	2.514	16.9	21.4	12 17	2 33.27	+21 39.3	2.086	2.887	13.4	21.9
<b>486178</b>	2013 AT <sub>14</sub>	11	9.6 253°53	7°1/ 4.9 18			<b>477432</b>	2009 WO <sub>125</sub>	11	9.6 294°63	1°6/ 8.9 18		
10 8	3 24.94	- 2 13.8	2.003	2.855	12.5	21.6	10 8	3 26.30	+14 20.2	1.479	2.347	15.3	21.1
10 18	3 19.04	- 3 4.1	1.933	2.843	10.0	21.4	10 18	3 20.86	+14 4.6	1.396	2.328	11.2	20.9
10 28	3 11.22	- 3 46.2	1.888	2.830	7.8	21.3	10 28	3 12.67	+13 43.0	1.336	2.310	6.5	20.5
11 7	3 2.23	- 4 14.3	1.869	2.818	7.2	21.2	11 7	3 2.61	+13 18.4	1.301	2.291	1.9	20.2
11 17	2 52.98	- 4 23.7	1.878	2.805	8.6	21.3	11 17	2 51.95	+12 55.1	1.293	2.272	4.7	20.3
11 27	2 44.47	- 4 11.9	1.913	2.792	11.1	21.4	11 27	2 42.19	+12 38.5	1.312	2.253	9.9	20.6
12 7	2 37.55	- 3 39.1	1.972	2.778	13.9	21.6	12 7	2 34.60	+12 33.0	1.354	2.235	14.6	20.8
12 17	2 32.80	- 2 47.4	2.051	2.765	16.4	21.7	12 17	2 30.00	+12 41.6	1.417	2.217	18.6	21.0
<b>435545</b>	2008 OC <sub>24</sub>	11	9.6 61°00	0°7/ 9.2 16			<b>24324</b>	2000 AT <sub>51</sub>	11	9.6 112°86	3°4/ 12.2 18		
10 8	3 27.69	+17 36.9	1.360	2.226	16.5	21.0	10 8	3 25.70	+28 22.2	2.312	3.125	12.4	17.5
10 18	3 21.38	+17 2.1	1.320	2.251	11.8	20.8	10 18	3 19.51	+28 34.5	2.242	3.134	9.6	17.4
10 28	3 12.57	+16 17.7	1.303	2.276	6.7	20.6	10 28	3 11.45	+28 33.7	2.195	3.143	6.5	17.2
11 7	3 2.48	+15 28.2	1.310	2.300	1.4	20.3	11 7	3 2.29	+28 19.4	2.177	3.152	3.9	17.0
11 17	2 52.49	+14 39.6	1.345	2.326	4.2	20.6	11 17	2 52.94	+27 53.2	2.187	3.160	3.8	17.1
11 27	2 43.98	+13 58.3	1.407	2.351	9.1	20.9	11 27	2 44.41	+27 18.6	2.227	3.169	6.4	17.2
12 7	2 37.91	+13 29.5	1.493	2.376	13.3	21.2	12 7	2 37.52	+26 40.8	2.294	3.177	9.3	17.4
12 17	2 34.73	+13 15.6	1.599	2.400	16.8	21.5	12 17	2 32.79	+26 4.6	2.386	3.185	12.0	17.6
<b>132466</b>	2002 JY	11	9.6 257°50	3°1/ 7.7 18			<b>401428</b>	2013 CO <sub>101</sub>	11	9.6 140°83	3°4/ 7.4 18		
10 8	3 25.23	+10 22.2	1.854	2.716	12.9								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>328379</b>	2008 <i>RO</i> <sub>31</sub>		11 9.7 53°23	4.3/ 6.1	18		<b>163016</b>	2001 <i>UD</i> <sub>52</sub>		11 9.7 246°96	2°0/ 8.6	18	
10 8	3 20.42	+ 6 22.1	2.128	2.993	11.4	20.7	10 8	3 28.07	+14 38.9	1.417	2.284	15.9	19.9
10 18	3 15.53	+ 5 16.4	2.075	3.002	8.4	20.6	10 18	3 22.11	+14 3.7	1.343	2.275	11.6	19.6
10 28	3 9.09	+ 4 12.0	2.048	3.011	5.6	20.4	10 28	3 13.34	+13 20.4	1.292	2.265	6.7	19.3
11 7	3 1.78	+ 3 14.2	2.048	3.021	4.4	20.3	11 7	3 2.77	+12 33.6	1.266	2.255	2.2	19.0
11 17	2 54.41	+ 2 27.7	2.077	3.031	6.0	20.5	11 17	2 51.75	+11 48.9	1.268	2.245	5.1	19.2
11 27	2 47.81	+ 1 56.4	2.134	3.040	8.8	20.7	11 27	2 41.82	+11 13.3	1.296	2.235	10.2	19.5
12 7	2 42.64	+ 1 42.0	2.216	3.050	11.6	20.9	12 7	2 34.24	+10 51.9	1.348	2.224	14.9	19.7
12 17	2 39.34	+ 1 44.4	2.319	3.061	14.0	21.1	12 17	2 29.73	+10 47.7	1.419	2.213	18.9	19.9
<b>335312</b>	2005 <i>QA</i> <sub>44</sub>		11 9.7 122°16	2°2/ 8.3	16		<b>94661</b>	2001 <i>WQ</i> <sub>98</sub>		11 9.7 173°28	1°0/10.3	18	
10 8	3 27.84	+13 21.0	1.719	2.578	13.9	22.0	10 8	3 27.44	+21 21.7	1.943	2.783	13.4	20.7
10 18	3 21.20	+12 37.6	1.665	2.593	10.0	21.8	10 18	3 20.98	+21 4.8	1.870	2.786	9.9	20.5
10 28	3 12.43	+11 49.4	1.635	2.607	5.8	21.6	10 28	3 12.39	+20 36.9	1.822	2.788	5.9	20.3
11 7	3 2.50	+11 0.9	1.633	2.620	2.3	21.4	11 7	3 2.54	+19 59.7	1.801	2.790	1.7	20.0
11 17	2 52.53	+10 17.3	1.660	2.634	4.7	21.6	11 17	2 52.47	+19 16.6	1.810	2.791	3.1	20.1
11 27	2 43.67	+ 9 43.6	1.714	2.646	8.7	21.9	11 27	2 43.33	+18 32.6	1.848	2.792	7.3	20.4
12 7	2 36.81	+ 9 23.3	1.795	2.658	12.5	22.1	12 7	2 36.04	+17 53.3	1.913	2.792	11.0	20.6
12 17	2 32.46	+ 9 17.9	1.897	2.669	15.6	22.4	12 17	2 31.18	+17 22.8	2.001	2.791	14.2	20.8
<b>226424</b>	2003 <i>RG</i> <sub>23</sub>		11 9.7 11°39	3°9/ 6.6	18		<b>73102</b>	2002 <i>GC</i> <sub>24</sub>		11 9.7 48°15	2°0/10.8	18	
10 8	3 20.66	+ 7 57.2	2.054	2.921	11.7	19.7	10 8	3 27.39	+24 15.7	1.095	1.962	19.5	18.3
10 18	3 15.83	+ 6 57.1	1.992	2.921	8.6	19.5	10 18	3 21.76	+23 44.6	1.055	1.983	14.5	18.1
10 28	3 9.33	+ 5 56.6	1.955	2.922	5.5	19.3	10 28	3 13.03	+22 53.0	1.035	2.004	8.8	17.9
11 7	3 1.85	+ 5 0.9	1.946	2.924	3.9	19.2	11 7	3 2.65	+21 45.1	1.038	2.026	3.1	17.6
11 17	2 54.25	+ 4 15.0	1.965	2.925	5.7	19.4	11 17	2 52.36	+20 28.4	1.065	2.048	4.3	17.8
11 27	2 47.40	+ 3 43.0	2.012	2.926	8.8	19.5	11 27	2 43.89	+19 13.8	1.118	2.071	9.7	18.2
12 7	2 42.02	+ 3 27.3	2.084	2.928	11.8	19.7	12 7	2 38.34	+18 10.5	1.194	2.094	14.6	18.5
12 17	2 38.61	+ 3 28.2	2.178	2.930	14.4	19.9	12 17	2 36.20	+17 24.4	1.289	2.117	18.5	18.8
<b>318764</b>	2005 <i>SY</i> <sub>60</sub>		11 9.7 60°28	1°9/ 8.5	18		<b>83109</b>	2001 <i>QR</i> <sub>240</sub>		11 9.7 322°00	0°3/ 9.5	18 R	
10 8	3 25.24	+15 32.6	1.445	2.315	15.5	21.0	10 8	3 24.06	+17 38.9	1.849	2.705	13.2	19.3
10 18	3 19.75	+14 42.6	1.387	2.320	11.2	20.7	10 18	3 18.62	+17 20.7	1.777	2.702	9.7	19.0
10 28	3 11.78	+13 44.0	1.352	2.326	6.4	20.5	10 28	3 11.08	+16 54.6	1.728	2.700	5.6	18.8
11 7	3 2.39	+12 42.3	1.343	2.332	2.0	20.2	11 7	3 2.27	+16 22.9	1.707	2.697	1.2	18.5
11 17	2 52.84	+11 44.0	1.360	2.338	4.8	20.4	11 17	2 53.20	+15 49.5	1.714	2.695	3.4	18.7
11 27	2 44.49	+10 56.1	1.405	2.344	9.6	20.7	11 27	2 44.99	+15 18.9	1.749	2.692	7.7	18.9
12 7	2 38.36	+10 23.6	1.473	2.350	13.9	21.0	12 7	2 38.57	+14 55.5	1.811	2.690	11.5	19.1
12 17	2 35.03	+10 9.0	1.562	2.356	17.4	21.2	12 17	2 34.51	+14 42.6	1.894	2.688	14.8	19.4
<b>481653</b>	2007 <i>VA</i> <sub>193</sub>		11 9.7 306°97	5°3/13.6	18		<b>298004</b>	2002 <i>OC</i> <sub>15</sub>		11 9.7 44°89	14°0/23.6	18	
10 8	3 24.43	+33 30.5	1.779	2.589	15.6	20.5	10 8	3 34.74	+55 22.4	1.666	2.344	21.4	19.9
10 18	3 19.31	+33 22.6	1.693	2.578	12.6	20.2	10 18	3 27.92	+56 17.8	1.611	2.360	19.4	19.8
10 28	3 11.65	+32 52.2	1.628	2.566	9.2	20.0	10 28	3 16.96	+56 36.3	1.570	2.376	17.3	19.7
11 7	3 2.39	+31 58.2	1.587	2.555	6.1	19.8	11 7	3 3.52	+56 10.8	1.547	2.392	15.4	19.6
11 17	2 52.75	+30 43.0	1.574	2.544	5.6	19.8	11 17	2 49.95	+54 59.4	1.544	2.409	14.2	19.6
11 27	2 44.11	+29 13.2	1.588	2.533	8.2	19.9	11 27	2 38.63	+53 8.2	1.562	2.427	14.1	19.6
12 7	2 37.59	+27 38.4	1.629	2.522	11.8	20.1	12 7	2 31.10	+50 50.1	1.604	2.444	14.9	19.7
12 17	2 33.87	+26 7.9	1.692	2.512	15.2	20.3	12 17	2 27.91	+48 19.8	1.667	2.462	16.4	19.8
<b>159718</b>	2003 <i>AD</i> <sub>51</sub>		11 9.7 85°49	0°1/ 9.6	18		<b>139604</b>	2001 <i>QP</i> <sub>126</sub>		11 9.7 21°16	8°6/ 3.6	18	
10 8	3 31.13	+18 1.8	1.217	2.084	18.0	19.3	10 8	3 19.28	+ 2 8.8	1.301	2.189	15.6	18.8
10 18	3 24.35	+17 51.3	1.168	2.099	13.1	19.0	10 18	3 15.40	+ 0 3.1	1.266	2.199	12.1	18.7
10 28	3 14.53	+17 29.9	1.140	2.113	7.5	18.8	10 28	3 9.25	- 1 55.1	1.254	2.210	9.3	18.5
11 7	3 2.97	+17 0.7	1.137	2.127	1.6	18.4	11 7	3 1.86	- 3 34.2	1.266	2.223	8.8	18.5
11 17	2 51.32	+16 28.3	1.160	2.141	4.4	18.7	11 17	2 54.46	- 4 44.9	1.302	2.237	10.9	18.7
11 27	2 41.28	+15 59.6	1.208	2.155	9.9	19.0	11 27	2 48.25	- 5 22.3	1.362	2.251	14.0	18.9
12 7	2 34.06	+15 40.4	1.280	2.168	14.7	19.3	12 7	2 44.12	- 5 26.9	1.442	2.267	17.1	19.2
12 17	2 30.25	+15 34.3	1.372	2.182	18.6	19.6	12 17	2 42.53	- 5 2.5	1.539	2.284	19.7	19.4
<b>1032</b>	<i>Pafuri</i>		11 9.7 128°58	2°0/ 8.2	18		<b>482815</b>	2013 <i>WE</i> <sub>83</sub>		11 9.7 313°50	0°6/ 9.3	18	
10 8	3 23.22	+11 0.7	2.560	3.411	10.2	15.5	10 8	3 22.85	+19 16.8	1.268	2.143	16.8	21.3
10 18	3 17.37	+10 42.1	2.497	3.421	7.3	15.3	10 18	3 18.70	+18 29.4	1.188	2.123	12.5	21.0
10 28	3 10.09	+10 22.3	2.461	3.430	4.3	15.1	10 28	3 11.58	+17 25.6	1.129	2.103	7.2	20.6
11 7	3 2.01	+10 3.6	2.453	3.439	2.0	15.0	11 7	3 2.45	+16 9.6	1.094	2.084	1.5	20.2
11 17	2 53.84	+ 9 48.7	2.477	3.448	3.6	15.1	11 17	2 52.72	+14 49.0	1.085	2.066	4.7	20.4
11 27	2 46.33	+ 9 40.0	2.530	3.457	6.5	15.3	11 27	2 44.06	+13 34.0	1.100	2.048	10.5	20.6
12 7	2 40.11	+ 9 39.5	2.610	3.465	9.3	15.5	12 7	2 37.83	+12 33.6	1.139	2.031	15.8	20.9
12 17	2 35.60	+ 9 48.0	2.715	3.473	11.7	15.7	12 17	2 34.86	+11 53.9	1.196	2.014	20.3	21.1
<b>370127</b>	2001 <i>VU</i> <sub>95</sub>		11 9.7 342°76	6°3/ 4.8	16		<b>427819</b>	2005 <i>JG</i> <sub>22</sub>		11 9.7 131°52	4°1/ 7.5	16	
10 8	3 15.87	+ 5 43.4	1.540	2.426	13.7	19.9	10 8	3 30.01	+ 7 7.5	1.756	2.613	13.8	21.6
10 18	3 12.99	+ 4 11.4	1.465	2.402	10.3	19.7	10 18	3 22.71	+ 6 35.5	1.704	2.628	10.1	21.4
10 28	3 7.99	+ 2 38.1	1.414	2.380	7.3	19.5	10 28	3 13.30	+ 6 5.3	1.676	2.642	6.4	21.2
11 7	3 1.61	+ 1 12.1	1.389	2.359	6.4	19.4	11 7	3 2.73	+ 5 41.1	1.676	2.655	4.1	21.1
11 17	2 54.87	+ 0 2.2	1.388	2.339	8.6	19.4	11 17	2 52.12	+ 5 27.2	1.705	2.668	6.0	21.3
11 27	2 48.90	- 0 44.4	1.413	2.321	12.2	19.6	11 27	2 42.61	+ 5 26.5	1.761	2.680	9.5	21.5
12 7	2 44.68	- 1 4.2	1.459	2.305	15.8	19.8	12 7	2 35.10	+ 5 40.3	1.844	2.691	13.0	21.7
12 17	2 42.85	- 0 57.4	1.523	2.290	19.0	20.0	12 17	2 30.10	+ 6 8.2	1.948	2.702	15.8	22.0
<b>97132</b>	1999 <i>VQ</i> <sub>114</sub>		11 9.7 327°72	8°4/12.9	17		<b>235923</b>	2005 <i>EZ</i> <sub>71</sub>		11 9.7 322			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>154185</b>	2002 <i>GL</i> <sub>121</sub>		11 9.7 222°19	3°4/ 7.8 18			<b>351129</b>	2003 <i>WS</i> <sub>92</sub>		11 9.7 36°08	2°6/10.9 16		
10 8	3 26.57	+ 6 3.2	2.274	3.124	11.3	19.9	10 8	3 27.61	+22 40.5	1.283	2.144	17.6	20.4
10 18	3 20.05	+ 6 1.0	2.200	3.121	8.3	19.7	10 18	3 21.76	+23 1.7	1.239	2.162	13.1	20.2
10 28	3 11.77	+ 6 1.7	2.153	3.117	5.3	19.5	10 28	3 13.06	+23 8.3	1.215	2.182	8.1	20.0
11 7	3 2.44	+ 6 7.8	2.134	3.114	3.4	19.3	11 7	3 2.74	+23 0.8	1.216	2.202	3.4	19.8
11 17	2 52.88	+ 6 21.4	2.146	3.110	4.9	19.4	11 17	2 52.35	+22 42.0	1.242	2.223	4.2	19.9
11 27	2 44.02	+ 6 44.3	2.187	3.106	7.9	19.6	11 27	2 43.47	+22 17.9	1.295	2.245	8.9	20.2
12 7	2 36.62	+ 7 17.0	2.255	3.102	10.9	19.8	12 7	2 37.23	+21 55.2	1.371	2.268	13.2	20.5
12 17	2 31.22	+ 7 59.4	2.347	3.098	13.5	20.0	12 17	2 34.18	+21 39.4	1.468	2.291	16.9	20.8
<b>76282</b>	2000 <i>EG</i> <sub>119</sub>		11 9.7 176°77	3°2/11.9 18			<b>145101</b>	2005 <i>GM</i> <sub>88</sub>		11 9.7 129°36	2°0/10.9 18		
10 8	3 28.74	+27 40.4	2.517	3.323	11.7	19.9	10 8	3 27.22	+23 5.8	1.958	2.794	13.4	20.7
10 18	3 21.69	+28 1.7	2.436	3.326	9.1	19.8	10 18	3 20.87	+23 14.3	1.889	2.800	10.1	20.5
10 28	3 12.76	+28 11.4	2.381	3.327	6.2	19.6	10 28	3 12.39	+23 11.7	1.843	2.805	6.3	20.3
11 7	3 2.66	+28 8.6	2.354	3.329	3.6	19.4	11 7	3 2.61	+22 58.4	1.824	2.810	2.6	20.0
11 17	2 52.30	+27 54.2	2.357	3.329	3.7	19.4	11 17	2 52.60	+22 36.5	1.835	2.815	3.3	20.1
11 27	2 42.65	+27 30.9	2.390	3.329	6.2	19.6	11 27	2 43.51	+22 9.9	1.874	2.819	7.1	20.3
12 7	2 34.54	+27 3.3	2.452	3.328	9.0	19.8	12 7	2 36.26	+21 43.7	1.940	2.824	10.7	20.6
12 17	2 28.56	+26 35.9	2.540	3.327	11.7	19.9	12 17	2 31.45	+21 22.4	2.030	2.828	13.8	20.8
<b>72800</b>	2001 <i>FR</i> <sub>188</sub>		11 9.7 143°26	3°4/ 7.3 18			<b>114350</b>	2002 <i>XM</i> <sub>77</sub>		11 9.7 54°37	1°4/ 9.0 18		
10 8	3 23.24	+ 6 38.0	2.424	3.278	10.5	19.5	10 8	3 28.15	+12 50.9	1.653	2.514	14.3	19.1
10 18	3 17.49	+ 6 12.9	2.360	3.283	7.7	19.3	10 18	3 21.59	+12 59.4	1.601	2.529	10.3	18.9
10 28	3 10.23	+ 5 49.5	2.323	3.287	4.9	19.1	10 28	3 12.78	+13 5.3	1.572	2.544	5.9	18.7
11 7	3 2.11	+ 5 30.8	2.314	3.292	3.4	19.0	11 7	3 2.68	+13 10.6	1.570	2.559	1.7	18.4
11 17	2 53.87	+ 5 19.8	2.335	3.296	4.8	19.1	11 17	2 52.49	+13 17.6	1.596	2.574	4.1	18.6
11 27	2 46.30	+ 5 18.8	2.385	3.300	7.6	19.3	11 27	2 43.41	+13 29.0	1.650	2.590	8.4	18.9
12 7	2 40.07	+ 5 29.1	2.461	3.303	10.3	19.5	12 7	2 36.39	+13 47.0	1.730	2.606	12.2	19.2
12 17	2 35.61	+ 5 50.7	2.561	3.307	12.7	19.7	12 17	2 31.99	+14 13.1	1.832	2.622	15.4	19.5
<b>170512</b>	2003 <i>WH</i> <sub>54</sub>		11 9.7 317°40	2°0/10.9 18			<b>232153</b>	2002 <i>CB</i> <sub>196</sub>		11 9.7 127°80	1°3/ 8.9 18		
10 8	3 24.27	+23 28.5	1.601	2.452	15.2	20.0	10 8	3 26.01	+15 33.3	1.730	2.589	13.8	20.7
10 18	3 19.24	+23 19.1	1.523	2.442	11.4	19.8	10 18	3 20.06	+15 3.0	1.666	2.594	10.0	20.5
10 28	3 11.67	+22 55.1	1.467	2.432	7.1	19.5	10 28	3 11.93	+14 26.0	1.627	2.599	5.7	20.3
11 7	3 2.46	+22 17.5	1.436	2.423	2.8	19.2	11 7	3 2.51	+13 45.8	1.614	2.603	1.6	20.0
11 17	2 52.85	+21 29.9	1.432	2.413	3.7	19.2	11 17	2 52.93	+13 6.8	1.629	2.608	4.0	20.2
11 27	2 44.19	+20 38.5	1.455	2.405	8.2	19.5	11 27	2 44.34	+12 34.2	1.673	2.612	8.3	20.5
12 7	2 37.64	+19 50.4	1.503	2.396	12.6	19.7	12 7	2 37.69	+12 12.2	1.742	2.616	12.2	20.7
12 17	2 33.89	+19 11.6	1.573	2.388	16.4	20.0	12 17	2 33.53	+12 3.3	1.833	2.620	15.5	21.0
<b>211376</b>	Joethurston		11 9.7 98°00	1°1/10.3 18			<b>306765</b>	2001 <i>AL</i> <sub>23</sub>		11 9.7 344°99	1°8/10.6 18		
10 8	3 26.42	+20 37.6	1.843	2.689	13.7	20.6	10 8	3 18.53	+22 30.3	1.087	1.970	18.4	19.1
10 18	3 20.39	+20 41.0	1.772	2.690	10.1	20.3	10 18	3 15.91	+22 18.9	1.017	1.953	13.9	18.8
10 28	3 12.15	+20 34.9	1.725	2.692	6.1	20.1	10 28	3 10.13	+21 48.7	0.965	1.938	8.5	18.4
11 7	3 2.55	+20 20.1	1.704	2.693	1.9	19.8	11 7	3 2.20	+21 1.6	0.936	1.924	2.9	18.1
11 17	2 52.68	+19 59.0	1.713	2.694	3.2	19.9	11 17	2 53.67	+20 3.3	0.929	1.913	4.4	18.1
11 27	2 43.72	+19 35.9	1.750	2.695	7.4	20.2	11 27	2 46.34	+19 2.8	0.946	1.903	10.3	18.4
12 7	2 36.66	+19 15.6	1.813	2.697	11.3	20.4	12 7	2 41.68	+18 10.2	0.984	1.895	15.8	18.7
12 17	2 32.09	+19 1.9	1.899	2.698	14.6	20.7	12 17	2 40.52	+17 32.9	1.040	1.889	20.4	19.0
<b>128239</b>	2003 <i>SX</i> <sub>154</sub>		11 9.7 145°15	2°8/12.0 18			<b>67415</b>	2000 <i>QY</i> <sub>62</sub>		11 9.7 314°61	2°2/ 8.6 18		
10 8	3 23.92	+27 41.1	2.498	3.312	11.5	19.6	10 8	3 26.93	+12 21.0	1.559	2.425	14.7	18.6
10 18	3 18.15	+27 40.6	2.422	3.317	8.9	19.4	10 18	3 21.02	+12 8.9	1.491	2.422	10.7	18.4
10 28	3 10.69	+27 27.8	2.371	3.321	5.9	19.2	10 28	3 12.64	+11 53.7	1.446	2.418	6.2	18.1
11 7	3 2.23	+27 3.0	2.347	3.325	3.3	19.1	11 7	3 2.70	+11 38.7	1.427	2.415	2.3	17.8
11 17	2 53.59	+26 28.1	2.353	3.329	3.3	19.1	11 17	2 52.43	+11 27.6	1.435	2.412	4.8	18.0
11 27	2 45.68	+25 46.7	2.389	3.332	5.9	19.3	11 27	2 43.17	+11 24.5	1.471	2.409	9.3	18.3
12 7	2 39.22	+25 3.5	2.453	3.336	8.8	19.5	12 7	2 36.01	+11 32.2	1.531	2.406	13.6	18.5
12 17	2 34.72	+24 23.1	2.542	3.339	11.4	19.6	12 17	2 31.63	+11 52.4	1.612	2.403	17.1	18.7
<b>316975</b>	2001 <i>FF</i> <sub>154</sub>		11 9.7 193°89	2°5/11.4 17			<b>80930</b>	2000 <i>DV</i> <sub>75</sub>		11 9.7 48°44	4°5/ 7.3 18		
10 8	3 25.27	+25 10.7	2.351	3.175	11.9	21.0	10 8	3 25.32	+ 9 45.3	1.282	2.163	16.3	18.6
10 18	3 19.26	+25 26.9	2.272	3.174	9.0	20.8	10 18	3 19.90	+ 8 43.9	1.238	2.174	11.9	18.4
10 28	3 11.40	+25 32.7	2.218	3.174	5.9	20.6	10 28	3 11.92	+ 7 41.0	1.215	2.187	7.3	18.2
11 7	3 2.39	+25 27.8	2.192	3.173	3.0	20.4	11 7	3 2.52	+ 6 44.1	1.217	2.199	4.5	18.0
11 17	2 53.12	+25 13.3	2.195	3.173	3.3	20.4	11 17	2 53.07	+ 6 0.2	1.245	2.212	7.0	18.2
11 27	2 44.55	+24 52.4	2.228	3.172	6.2	20.6	11 27	2 44.98	+ 5 35.1	1.297	2.226	11.3	18.5
12 7	2 37.50	+24 29.3	2.289	3.171	9.3	20.8	12 7	2 39.25	+ 5 31.0	1.373	2.240	15.3	18.8
12 17	2 32.54	+24 8.1	2.374	3.170	12.1	21.0	12 17	2 36.43	+ 5 47.3	1.467	2.254	18.7	19.1
<b>43190</b>	1999 <i>XR</i> <sub>241</sub>		11 9.7 76°42	0°4/ 9.4 18			<b>49366</b>	1998 <i>WY</i> <sub>18</sub>		11 9.7 333°77	0°7/10.1 18		
10 8	3 25.18	+19 29.3	1.677	2.533	14.4	18.7	10 8	3 24.06	+20 38.1	1.713	2.567	14.2	19.1
10 18	3 19.35	+18 36.4	1.625	2.550	10.4	18.4	10 18	3 18.83	+20 17.3	1.641	2.564	10.5	18.9
10 28	3 11.43	+17 32.4	1.596	2.567	5.9	18.2	10 28	3 11.32	+19 44.9	1.591	2.561	6.2	18.6
11 7	3 2.37	+16 21.9	1.595	2.585	1.2	17.9	11 7	3 2.41	+19 3.3	1.568	2.558	1.6	18.3
11 17	2 53.32	+15 10.9	1.622	2.602	3.6	18.2	11 17	2 53.23	+18 16.5	1.573	2.555	3.4	18.4
11 27	2 45.42	+14 6.3	1.677	2.619	8.0	18.5	11 27	2 44.99	+17 30.2	1.606	2.552	7.9	18.7
12 7	2 39.52	+13 13.7	1.758	2.636	11.9	18.8	12 7	2 38.69	+16 50.5	1.664	2.550	12.0	19.0
12 17	2 36.10	+12 36.6	1.861	2.653	15.1	19.0	12 17	2 34.94	+16 21.7	1.744	2.548	15.5	19.2
<b>81820</b>	2000 <i>KA</i> <sub>38</sub>		11 9.7 152°96	1°6/ 8.5 18			<b>279260</b>	2009 <i>VX</i> <sub>65</sub>		11 9.7 185°59	0°		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>317300</b>	2002 <i>GT</i> <sub>85</sub>		11 9.7 150°89	4.4/ 5.9	18		<b>478491</b>	2012 <i>RY</i> <sub>27</sub>		11 9.7 71°17	1.7/10.8	18	
10 8	3 21.46	+ 5 10.9	2.325	3.185	10.8	20.4	10 8	3 27.26	+24 0.0	1.473	2.323	16.3	20.8
10 18	3 16.26	+ 4 10.4	2.265	3.188	8.0	20.3	10 18	3 21.20	+23 29.1	1.421	2.340	12.1	20.5
10 28	3 9.57	+ 3 11.7	2.230	3.191	5.5	20.1	10 28	3 12.63	+22 41.7	1.391	2.357	7.4	20.3
11 7	3 2.02	+ 2 19.6	2.224	3.194	4.4	20.0	11 7	3 2.69	+21 40.7	1.387	2.375	2.6	20.1
11 17	2 54.37	+ 1 38.4	2.247	3.197	5.9	20.1	11 17	2 52.73	+20 31.9	1.410	2.392	3.7	20.2
11 27	2 47.40	+ 1 11.5	2.298	3.199	8.5	20.3	11 27	2 44.14	+19 23.3	1.461	2.409	8.3	20.5
12 7	2 41.77	+ 1 0.6	2.375	3.202	11.1	20.5	12 7	2 37.91	+18 22.6	1.536	2.427	12.5	20.8
12 17	2 37.91	+ 1 5.6	2.473	3.204	13.4	20.7	12 17	2 34.56	+17 35.2	1.634	2.444	16.1	21.1
<b>77653</b>	2001 <i>KH</i> <sub>72</sub>		11 9.7 48°45	2°0/11.4	18		<b>483061</b>	2015 <i>KF</i> <sub>132</sub>		11 9.7 73°99	0°4/ 9.5	18	
10 8	3 22.20	+25 50.3	2.091	2.924	12.8	18.7	10 8	3 28.94	+16 18.3	1.670	2.525	14.5	20.3
10 18	3 17.04	+25 20.2	2.027	2.936	9.6	18.5	10 18	3 22.12	+16 19.1	1.621	2.546	10.5	20.1
10 28	3 10.09	+24 36.4	1.987	2.947	6.1	18.3	10 28	3 13.06	+16 13.6	1.595	2.566	6.0	19.9
11 7	3 2.13	+23 40.7	1.974	2.959	2.7	18.1	11 7	3 2.79	+16 3.7	1.597	2.587	1.3	19.7
11 17	2 54.10	+22 37.2	1.991	2.971	3.0	18.2	11 17	2 52.48	+15 52.4	1.627	2.607	3.6	19.9
11 27	2 46.96	+21 31.3	2.036	2.983	6.4	18.4	11 27	2 43.35	+15 43.5	1.685	2.628	8.0	20.2
12 7	2 41.46	+20 29.1	2.109	2.996	9.8	18.6	12 7	2 36.33	+15 40.5	1.770	2.648	11.8	20.5
12 17	2 38.09	+19 35.3	2.205	3.008	12.7	18.9	12 17	2 31.94	+15 46.0	1.876	2.668	15.0	20.7
<b>330271</b>	2006 <i>SE</i> <sub>119</sub>		11 9.7 343°42	10°4/ 4.3	18		<b>38448</b>	1999 <i>SS</i> <sub>18</sub>		11 9.7 124°86	7°6/ 4.3	18	
10 8	3 21.36	- 0 6.5	1.059	1.951	18.0	19.6	10 8	3 23.96	- 0 55.6	1.815	2.675	13.2	18.3
10 18	3 17.65	- 1 41.6	1.007	1.941	14.3	19.4	10 18	3 18.36	- 2 22.2	1.767	2.682	10.4	18.1
10 28	3 10.95	- 3 7.3	0.975	1.931	11.2	19.2	10 28	3 10.86	- 3 40.9	1.744	2.688	8.2	18.0
11 7	3 2.37	- 4 10.9	0.964	1.923	10.5	19.1	11 7	3 2.32	- 4 44.1	1.747	2.695	7.7	18.0
11 17	2 53.43	- 4 42.4	0.975	1.916	12.7	19.2	11 17	2 53.70	- 5 26.1	1.777	2.701	9.2	18.1
11 27	2 45.76	- 4 36.4	1.007	1.910	16.5	19.4	11 27	2 46.01	- 5 43.5	1.832	2.707	11.8	18.3
12 7	2 40.64	- 3 54.3	1.057	1.906	20.3	19.6	12 7	2 40.05	- 5 36.2	1.911	2.712	14.5	18.5
12 17	2 38.79	- 2 41.6	1.123	1.903	23.7	19.9	12 17	2 36.30	- 5 6.9	2.008	2.718	16.8	18.7
<b>77399</b>	2001 <i>FV</i> <sub>160</sub>		11 9.7 58°23	4°7/ 7.5	18		<b>83645</b>	2001 <i>SL</i> <sub>344</sub>		11 9.7 55°85	2°2/ 8.3	18	
10 8	3 28.60	+ 1 25.6	2.097	2.945	12.2	18.2	10 8	3 23.88	+12 59.5	1.803	2.666	13.2	19.9
10 18	3 21.43	+ 1 32.3	2.047	2.962	9.2	18.0	10 18	3 18.42	+12 24.6	1.742	2.672	9.5	19.7
10 28	3 12.51	+ 1 46.0	2.023	2.979	6.3	17.9	10 28	3 10.96	+11 45.7	1.706	2.678	5.5	19.4
11 7	3 2.65	+ 2 9.5	2.027	2.997	4.7	17.8	11 7	3 2.35	+11 6.6	1.697	2.684	2.2	19.2
11 17	2 52.77	+ 2 43.9	2.060	3.014	6.0	17.9	11 17	2 53.60	+10 32.0	1.716	2.691	4.4	19.4
11 27	2 43.81	+ 3 29.9	2.123	3.031	8.7	18.1	11 27	2 45.78	+10 6.2	1.763	2.697	8.4	19.7
12 7	2 36.52	+ 4 26.3	2.213	3.049	11.5	18.4	12 7	2 39.74	+ 9 52.5	1.835	2.703	12.0	19.9
12 17	2 31.37	+ 5 31.7	2.325	3.067	13.9	18.6	12 17	2 36.00	+ 9 52.4	1.929	2.710	15.1	20.1
<b>129951</b>	1999 <i>TV</i> <sub>219</sub>		11 9.7 192°66	3°6/12.1	18		<b>314267</b>	2005 <i>QN</i> <sub>177</sub>		11 9.7 31°56	3°1/11.7	18	
10 8	3 28.94	+28 14.6	2.169	2.981	13.2	19.4	10 8	3 25.04	+26 22.1	1.800	2.635	14.5	20.8
10 18	3 22.15	+28 32.7	2.088	2.979	10.2	19.2	10 18	3 19.50	+26 26.4	1.732	2.640	11.1	20.6
10 28	3 13.18	+28 37.2	2.030	2.977	7.0	19.0	10 28	3 11.70	+26 15.8	1.687	2.644	7.2	20.4
11 7	3 2.83	+28 26.9	2.000	2.975	4.2	18.8	11 7	3 2.53	+25 50.6	1.668	2.649	3.8	20.2
11 17	2 52.16	+28 2.8	1.999	2.972	4.1	18.8	11 17	2 53.12	+25 13.2	1.676	2.655	3.9	20.2
11 27	2 42.31	+27 28.8	2.027	2.968	6.9	19.0	11 27	2 44.71	+24 28.9	1.713	2.660	7.4	20.4
12 7	2 34.24	+26 50.3	2.083	2.964	10.2	19.2	12 7	2 38.27	+23 44.1	1.775	2.666	11.1	20.7
12 17	2 28.59	+26 13.1	2.164	2.959	13.1	19.4	12 17	2 34.40	+23 4.5	1.861	2.672	14.3	20.9
<b>378124</b>	2006 <i>VT</i> <sub>2</sub>		11 9.7 221°15	8°0/ 7.5	17		<b>46614</b>	1993 <i>TV</i> <sub>27</sub>		11 9.7 323°17	1°2/ 8.9	18	
10 8	4 4.41	+ 1 31.8	1.351	2.156	20.0	21.4	10 8	3 24.38	+15 20.4	1.772	2.633	13.5	18.5
10 18	3 49.90	+ 0 45.6	1.249	2.141	15.7	21.1	10 18	3 18.94	+14 57.2	1.702	2.630	9.8	18.3
10 28	3 30.26	+ 0 4.5	1.173	2.120	10.9	20.8	10 28	3 11.36	+14 27.7	1.655	2.627	5.6	18.0
11 7	3 6.69	+ 0 22.7	1.128	2.095	8.0	20.5	11 7	3 2.46	+13 55.1	1.635	2.625	1.5	17.8
11 17	2 41.54	- 0 27.4	1.118	2.066	10.7	20.6	11 17	2 53.30	+13 23.4	1.643	2.622	3.9	17.9
11 27	2 17.79	- 0 4.8	1.142	2.031	16.2	20.8	11 27	2 45.03	+12 57.3	1.680	2.620	8.2	18.2
12 7	1 57.87	+ 0 44.3	1.195	1.991	21.7	21.0	12 7	2 38.58	+12 40.8	1.741	2.617	12.1	18.4
12 17	1 43.03	+ 1 55.4	1.268	1.946	26.2	21.3	12 17	2 34.57	+12 36.4	1.825	2.615	15.4	18.6
<b>359737</b>	2011 <i>UR</i> <sub>50</sub>		11 9.7 341°83	0°8/ 9.2	18		<b>327048</b>	2004 <i>TJ</i> <sub>23</sub>		11 9.7 13°20	3°9/12.3	18	
10 8	3 24.89	+15 43.7	1.719	2.580	13.8	20.9	10 8	3 25.81	+28 41.2	2.090	2.907	13.4	21.3
10 18	3 19.38	+15 32.2	1.649	2.577	10.1	20.7	10 18	3 19.94	+29 3.1	2.014	2.908	10.4	21.1
10 28	3 11.63	+15 14.5	1.602	2.574	5.8	20.4	10 28	3 11.93	+29 10.9	1.961	2.908	7.2	20.9
11 7	3 2.50	+14 53.2	1.582	2.572	1.3	20.1	11 7	3 2.59	+29 3.8	1.935	2.909	4.5	20.7
11 17	2 53.09	+14 31.7	1.590	2.570	3.8	20.3	11 17	2 52.95	+28 42.6	1.938	2.910	4.3	20.7
11 27	2 44.58	+14 14.5	1.626	2.568	8.2	20.6	11 27	2 44.14	+28 11.2	1.969	2.911	7.0	20.9
12 7	2 37.98	+14 5.3	1.687	2.567	12.2	20.8	12 7	2 37.11	+27 35.1	2.026	2.912	10.2	21.1
12 17	2 33.89	+14 6.8	1.770	2.566	15.6	21.0	12 17	2 32.46	+26 59.8	2.108	2.913	13.1	21.3
<b>486216</b>	2013 <i>AS</i> <sub>96</sub>		11 9.7 150°50	6°1/ 6.1	18		<b>432720</b>	2011 <i>CH</i> <sub>83</sub>		11 9.7 116°23	3°4/ 7.7	18	
10 8	3 25.44	+ 1 5.2	1.900	2.757	12.9	21.1	10 8	3 26.77	+11 0.9	1.587	2.453	14.5	21.6
10 18	3 19.42	+ 0 24.0	1.841	2.759	9.9	20.9	10 18	3 20.66	+10 8.8	1.532	2.462	10.5	21.3
10 28	3 11.49	- 0 10.6	1.808	2.761	7.1	20.7	10 28	3 12.30	+ 9 13.8	1.500	2.471	6.3	21.1
11 7	3 2.45	- 0 33.5	1.801	2.763	6.1	20.7	11 7	3 2.65	+ 8 21.3	1.495	2.480	3.4	21.0
11 17	2 53.27	- 0 40.5	1.821	2.765	7.6	20.8	11 17	2 52.90	+ 7 37.3	1.518	2.488	5.7	21.1
11 27	2 44.96	- 0 29.4	1.869	2.766	10.4	20.9	11 27	2 44.28	+ 7 7.0	1.569	2.496	9.8	21.4
12 7	2 38.35	- 0 0.1	1.941	2.768	13.3	21.1	12 7	2 37.72	+ 6 53.5	1.643	2.504	13.6	21.7
12 17	2 33.97	+ 0 45.6	2.034	2.769	15.9	21.3	12 17	2 33.76	+ 6 57.3	1.739	2.512	16.8	21.9
<b>223463</b>	2003 <i>UU</i> <sub>96</sub>		11 9.7 71°20	2°4/11.9	18		<b>139941</b>	2001 <i>RM</i> <sub>136</sub>		1			

EPHEMERIDES

11 9.7

11 9.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>85549</b>	1997 YH		11 9.7	3°70	2°5/11.3	18	<b>438470</b>	2007 EG <sub>11</sub>		11 9.7	191°25	1°1/10.5	18
10 8	3 23.54	+25 50.2	1.327	2.184	17.4	18.6	10 8	3 28.33	+21 50.6	2.261	3.091	12.1	22.7
10 18	3 19.00	+25 20.6	1.262	2.183	13.2	18.4	10 18	3 21.50	+21 38.8	2.179	3.089	9.0	22.5
10 28	3 11.63	+24 30.2	1.218	2.183	8.3	18.1	10 28	3 12.74	+21 16.9	2.123	3.087	5.4	22.3
11 7	3 2.54	+23 21.1	1.197	2.183	3.5	17.8	11 7	3 2.81	+20 46.1	2.095	3.083	1.8	22.1
11 17	2 53.17	+21 59.6	1.203	2.185	4.1	17.9	11 17	2 52.62	+20 9.0	2.098	3.079	2.8	22.1
11 27	2 45.10	+20 35.1	1.234	2.187	9.0	18.2	11 27	2 43.21	+19 29.8	2.132	3.074	6.6	22.4
12 7	2 39.49	+19 17.8	1.290	2.190	13.7	18.4	12 7	2 35.42	+18 53.1	2.193	3.068	10.0	22.6
12 17	2 36.99	+18 15.1	1.366	2.193	17.7	18.7	12 17	2 29.82	+18 23.1	2.279	3.062	13.0	22.8
<b>447991</b>	2008 CE <sub>195</sub>		11 9.7	341°92	3°7/ 7.4	18	<b>174702</b>	2003 UX <sub>81</sub>		11 9.7	260°64	1°4/10.3	18
10 8	3 22.14	+ 9 44.4	1.658	2.531	13.6	20.2	10 8	3 30.69	+19 43.3	1.434	2.289	16.4	19.9
10 18	3 17.39	+ 8 59.9	1.591	2.525	10.0	20.0	10 18	3 24.23	+20 3.9	1.360	2.283	12.2	19.6
10 28	3 10.50	+ 8 13.5	1.548	2.519	6.1	19.7	10 28	3 14.76	+20 14.9	1.309	2.277	7.4	19.3
11 7	3 2.29	+ 7 30.5	1.531	2.514	3.7	19.6	11 7	3 3.30	+20 16.1	1.282	2.271	2.3	19.0
11 17	2 53.82	+ 6 56.1	1.541	2.509	5.8	19.7	11 17	2 51.28	+20 9.2	1.283	2.264	4.0	19.1
11 27	2 46.24	+ 6 35.4	1.577	2.505	9.7	19.9	11 27	2 40.38	+19 58.6	1.310	2.258	9.2	19.4
12 7	2 40.48	+ 6 30.9	1.638	2.502	13.4	20.1	12 7	2 31.93	+19 49.8	1.363	2.251	13.9	19.6
12 17	2 37.14	+ 6 43.4	1.719	2.499	16.7	20.4	12 17	2 26.78	+19 47.9	1.436	2.245	17.9	19.9
<b>301492</b>	2009 EH <sub>4</sub>		11 9.7	354°82	6°5/12.8	18	<b>4234</b>	Evtushenko		11 9.7	122°36	0°1/ 9.7	18
10 8	3 30.32	+31 26.4	1.652	2.466	16.5	19.9	10 8	3 22.75	+18 30.7	2.674	3.514	10.1	18.0
10 18	3 23.94	+32 32.1	1.578	2.465	13.3	19.7	10 18	3 17.09	+18 12.8	2.609	3.526	7.3	17.9
10 28	3 14.59	+33 20.5	1.527	2.463	9.8	19.5	10 28	3 10.04	+17 48.8	2.570	3.538	4.2	17.7
11 7	3 3.22	+33 47.5	1.500	2.462	7.1	19.4	11 7	3 2.21	+17 20.5	2.559	3.549	0.9	17.4
11 17	2 51.25	+33 51.4	1.500	2.462	6.8	19.3	11 17	2 54.28	+16 50.4	2.580	3.560	2.4	17.6
11 27	2 40.33	+33 35.5	1.526	2.461	9.3	19.5	11 27	2 47.01	+16 21.6	2.631	3.571	5.6	17.8
12 7	2 31.83	+33 6.7	1.577	2.461	12.7	19.7	12 7	2 41.01	+15 57.3	2.710	3.582	8.4	18.0
12 17	2 26.57	+32 33.5	1.650	2.462	15.9	19.9	12 17	2 36.69	+15 39.8	2.814	3.592	10.9	18.2
<b>198411</b>	2004 VB <sub>63</sub>		11 9.7	12°79	0°2/ 9.6	18	<b>49770</b>	1999 WC <sub>7</sub>		11 9.7	93°20	3°0/ 8.2	18
10 8	3 19.32	+19 15.9	0.975	1.869	19.0	18.9	10 8	3 30.08	+11 5.7	1.496	2.360	15.4	18.7
10 18	3 16.31	+18 42.2	0.931	1.875	13.9	18.6	10 18	3 23.05	+10 35.9	1.451	2.380	11.1	18.5
10 28	3 10.18	+17 53.3	0.906	1.883	8.0	18.3	10 28	3 13.65	+10 4.1	1.429	2.400	6.5	18.3
11 7	3 2.22	+16 55.0	0.903	1.893	1.7	18.0	11 7	3 2.98	+ 9 34.7	1.433	2.419	3.1	18.1
11 17	2 54.11	+15 55.4	0.922	1.905	4.7	18.2	11 17	2 52.33	+ 9 12.5	1.466	2.439	5.4	18.3
11 27	2 47.53	+15 4.0	0.965	1.919	10.6	18.6	11 27	2 43.02	+ 9 1.6	1.526	2.457	9.6	18.6
12 7	2 43.71	+14 28.1	1.029	1.935	15.7	19.0	12 7	2 35.98	+ 9 4.4	1.610	2.476	13.5	18.9
12 17	2 43.20	+14 11.3	1.111	1.953	19.9	19.3	12 17	2 31.74	+ 9 21.3	1.715	2.494	16.7	19.1
<b>343733</b>	2011 FV <sub>5</sub>		11 9.7	162°97	1°6/10.7	18	<b>442495</b>	2011 VN <sub>18</sub>		11 9.7	47°89	4°5/ 7.9	16
10 8	3 30.86	+22 4.4	2.246	3.071	12.3	21.6	10 8	3 29.55	+ 5 43.5	1.436	2.303	15.7	20.4
10 18	3 23.30	+22 17.2	2.172	3.078	9.2	21.4	10 18	3 22.62	+ 5 38.6	1.401	2.329	11.5	20.2
10 28	3 13.74	+22 20.8	2.124	3.085	5.6	21.2	10 28	3 13.36	+ 5 38.6	1.388	2.356	7.2	20.0
11 7	3 2.98	+22 15.3	2.105	3.091	2.2	21.0	11 7	3 2.91	+ 5 47.0	1.402	2.382	4.6	19.9
11 17	2 51.99	+22 2.1	2.116	3.096	3.0	21.1	11 17	2 52.58	+ 6 6.5	1.443	2.409	6.4	20.1
11 27	2 41.85	+21 44.4	2.158	3.100	6.5	21.3	11 27	2 43.63	+ 6 38.3	1.510	2.437	10.1	20.4
12 7	2 33.42	+21 26.5	2.229	3.104	9.9	21.5	12 7	2 36.99	+ 7 22.2	1.602	2.464	13.8	20.7
12 17	2 27.27	+21 12.2	2.324	3.106	12.8	21.7	12 17	2 33.12	+ 8 16.8	1.715	2.492	16.8	20.9
<b>342816</b>	2008 XV <sub>6</sub>		11 9.7	325°72	3°6/ 7.5	18	<b>261861</b>	2006 EU <sub>63</sub>		11 9.7	235°28	2°4/11.7	17
10 8	3 23.95	+10 37.8	1.602	2.473	14.1	20.2	10 8	3 23.26	+26 20.0	2.472	3.293	11.4	21.0
10 18	3 18.74	+ 9 46.0	1.537	2.470	10.3	20.0	10 18	3 17.78	+26 13.7	2.388	3.288	8.7	20.8
10 28	3 11.28	+ 8 51.0	1.495	2.466	6.2	19.7	10 28	3 10.59	+25 55.7	2.328	3.283	5.7	20.6
11 7	3 2.46	+ 7 58.3	1.480	2.463	3.6	19.5	11 7	3 2.35	+25 26.4	2.296	3.277	2.9	20.4
11 17	2 53.39	+ 7 14.1	1.492	2.461	5.9	19.7	11 17	2 53.89	+24 48.0	2.294	3.272	3.1	20.4
11 27	2 45.30	+ 6 43.8	1.530	2.458	9.9	19.9	11 27	2 46.08	+24 4.1	2.321	3.266	5.9	20.6
12 7	2 39.14	+ 6 30.8	1.593	2.456	13.8	20.2	12 7	2 39.68	+23 19.4	2.377	3.260	9.0	20.8
12 17	2 35.53	+ 6 35.8	1.676	2.453	17.1	20.4	12 17	2 35.24	+22 38.6	2.457	3.254	11.7	20.9
<b>121492</b>	1999 TV <sub>262</sub>		11 9.7	35°97	3°5/11.9	18	<b>329070</b>	2011 BD <sub>8</sub>		11 9.7	223°92	1°4/10.9	17
10 8	3 25.09	+27 0.5	1.588	2.428	15.8	19.2	10 8	3 22.98	+23 11.7	2.535	3.365	10.9	21.4
10 18	3 19.61	+27 5.6	1.538	2.447	12.1	19.0	10 18	3 17.50	+22 59.5	2.451	3.360	8.2	21.2
10 28	3 11.74	+26 53.7	1.510	2.467	7.9	18.8	10 28	3 10.40	+22 37.5	2.393	3.354	5.0	21.0
11 7	3 2.54	+26 25.6	1.507	2.488	4.2	18.6	11 7	3 2.31	+22 7.0	2.362	3.349	2.0	20.8
11 17	2 53.29	+25 44.5	1.532	2.510	4.2	18.7	11 17	2 54.00	+21 30.1	2.362	3.342	2.6	20.9
11 27	2 45.27	+24 56.5	1.583	2.531	7.8	19.0	11 27	2 46.32	+20 50.6	2.392	3.336	5.8	21.1
12 7	2 39.46	+24 8.8	1.659	2.554	11.5	19.2	12 7	2 39.98	+20 12.7	2.449	3.330	8.9	21.3
12 17	2 36.37	+23 27.4	1.758	2.577	14.7	19.5	12 17	2 35.49	+19 40.0	2.532	3.323	11.6	21.4
<b>1578</b>	Kirkwood		11 9.7	342°54	0°2/ 9.6	18	<b>256390</b>	2006 YS <sub>44</sub>		11 9.7	148°74	2°2/ 7.9	18
10 8	3 19.21	+17 41.4	2.234	3.090	11.3	15.2	10 8	3 22.32	+13 0.7	2.217	3.074	11.3	20.5
10 18	3 14.94	+17 25.8	2.152	3.078	8.2	14.9	10 18	3 17.02	+12 7.2	2.151	3.078	8.1	20.3
10 28	3 8.98	+17 3.6	2.095	3.066	4.7	14.7	10 28	3 10.09	+11 9.4	2.110	3.081	4.7	20.1
11 7	3 1.99	+16 36.9	2.066	3.056	1.0	14.4	11 7	3 2.24	+10 11.4	2.098	3.084	2.2	19.9
11 17	2 54.73	+16 8.5	2.065	3.046	2.9	14.5	11 17	2 54.26	+ 9 17.8	2.116	3.087	4.1	20.0
11 27	2 48.08	+15 42.2	2.093	3.036	6.6	14.8	11 27	2 47.03	+ 8 33.2	2.162	3.090	7.5	20.3
12 7	2 42.80	+15 21.5	2.147	3.028	9.9	15.0	12 7	2 41.23	+ 8 0.7	2.236	3.092	10.6	20.5
12 17	2 39.41	+15 9.2	2.225	3.020	12.9	15.2	12 17	2 37.35	+ 7 42.2	2.332	3.095	13.3	20.7
<b>448879</b>	2011 UZ <sub>239</sub>		11 9.7	316°20	0°5/10.1	18	<b>192470</b>	1998 FV <sub>53</sub>		11 9.7	332°08	3°6/11.7	18
10 8	3 22.09	+21 41.5	1.658	2.515	14.5	20.9	1						

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>431703</b>	2008 <i>EN</i> <sub>67</sub>		11 9.7 268°28	3°0/11.3	18		<b>213146</b>	2000 <i>HD</i> <sub>44</sub>		11 9.7 210°22	0°6/10.1	18	
10 8	3 28.20	+25 9.9	1.478	2.323	16.5	21.5	10 8	3 27.17	+18 59.7	2.203	3.043	12.0	20.7
10 18	3 22.42	+25 11.6	1.400	2.314	12.6	21.2	10 18	3 20.75	+19 4.2	2.122	3.038	8.8	20.4
10 28	3 13.72	+24 56.5	1.344	2.305	8.1	20.9	10 28	3 12.38	+19 1.7	2.066	3.033	5.2	20.2
11 7	3 3.09	+24 24.3	1.312	2.296	3.8	20.6	11 7	3 2.80	+18 53.1	2.039	3.028	1.4	19.9
11 17	2 51.95	+23 38.1	1.307	2.287	4.3	20.7	11 17	2 52.91	+18 40.2	2.041	3.022	2.8	20.0
11 27	2 41.91	+22 44.2	1.329	2.278	8.9	20.9	11 27	2 43.73	+18 26.1	2.074	3.016	6.7	20.3
12 7	2 34.29	+21 51.3	1.375	2.269	13.5	21.2	12 7	2 36.13	+18 14.6	2.134	3.010	10.2	20.5
12 17	2 29.86	+21 6.7	1.443	2.260	17.5	21.4	12 17	2 30.71	+18 8.7	2.218	3.003	13.2	20.7
<b>318095</b>	2004 <i>GW</i> <sub>77</sub>		11 9.7 50°07	13°9/ 3.4	18		<b>263330</b>	2008 <i>CZ</i> <sub>67</sub>		11 9.7 341°31	1°5/10.6	17	
10 8	3 26.84	-12 17.0	1.247	2.099	18.5	19.1	10 8	3 25.83	+21 34.8	1.881	2.725	13.6	21.0
10 18	3 20.78	-13 55.5	1.233	2.123	15.9	19.1	10 18	3 20.05	+21 42.0	1.807	2.724	10.1	20.8
10 28	3 12.30	-15 6.0	1.240	2.147	14.3	19.0	10 28	3 12.08	+21 39.1	1.757	2.722	6.2	20.6
11 7	3 2.68	-15 39.5	1.267	2.172	14.0	19.1	11 7	3 2.74	+21 26.8	1.734	2.721	2.2	20.3
11 17	2 53.31	-15 32.1	1.317	2.197	15.2	19.2	11 17	2 53.09	+21 7.3	1.739	2.720	3.2	20.4
11 27	2 45.49	-14 45.7	1.386	2.222	17.2	19.5	11 27	2 44.31	+20 44.5	1.773	2.719	7.3	20.6
12 7	2 40.10	-13 27.0	1.475	2.248	19.3	19.7	12 7	2 37.36	+20 23.2	1.833	2.718	11.1	20.9
12 17	2 37.53	-11 44.1	1.579	2.274	21.2	19.9	12 17	2 32.87	+20 7.7	1.915	2.718	14.4	21.1
<b>185408</b>	2006 <i>WT</i> <sub>131</sub>		11 9.7 117°41	0°8/ 9.2	17		<b>26656</b>	Samarenae		11 9.7 343°31	3°9/ 8.6	18	
10 8	3 27.00	+18 23.5	1.555	2.414	15.1	20.0	10 8	3 28.36	+ 8 28.7	1.100	1.984	18.1	17.3
10 18	3 20.96	+17 30.5	1.496	2.423	11.0	19.8	10 18	3 22.97	+ 8 37.3	1.037	1.975	13.4	17.0
10 28	3 12.55	+16 26.2	1.460	2.432	6.3	19.5	10 28	3 14.22	+ 8 49.4	0.995	1.968	8.2	16.7
11 7	3 2.79	+15 15.2	1.451	2.441	1.4	19.2	11 7	3 3.26	+ 9 8.6	0.975	1.962	4.0	16.5
11 17	2 52.92	+14 4.3	1.470	2.449	4.1	19.5	11 17	2 51.71	+ 9 38.2	0.980	1.956	6.6	16.6
11 27	2 44.25	+13 0.8	1.516	2.457	8.8	19.8	11 27	2 41.48	+10 20.2	1.009	1.952	12.0	16.9
12 7	2 37.75	+12 10.8	1.588	2.465	13.0	20.0	12 7	2 34.07	+11 15.4	1.060	1.948	17.1	17.2
12 17	2 33.96	+11 37.8	1.681	2.473	16.5	20.3	12 17	2 30.30	+12 22.7	1.129	1.946	21.3	17.5
<b>429845</b>	2012 <i>QX</i> <sub>40</sub>		11 9.7 68°18	5°3/12.7	16		<b>43437</b>	2000 <i>YL</i> <sub>47</sub>		11 9.7 231°44	3°5/ 7.5	18	
10 8	3 37.60	+30 0.3	1.486	2.302	17.9	20.7	10 8	3 24.99	+ 9 36.1	1.853	2.716	12.9	19.3
10 18	3 28.68	+30 39.9	1.452	2.343	13.9	20.6	10 18	3 19.31	+ 8 52.1	1.783	2.711	9.4	19.0
10 28	3 16.91	+30 58.1	1.439	2.383	9.6	20.4	10 28	3 11.59	+ 8 6.3	1.736	2.706	5.8	18.8
11 7	3 3.70	+30 53.1	1.452	2.423	6.1	20.3	11 7	3 2.63	+ 7 23.4	1.717	2.700	3.5	18.7
11 17	2 50.71	+30 27.2	1.492	2.462	5.8	20.4	11 17	2 53.41	+ 6 48.2	1.727	2.694	5.5	18.8
11 27	2 39.53	+29 47.0	1.560	2.500	8.7	20.6	11 27	2 45.03	+ 6 25.3	1.764	2.688	9.1	19.0
12 7	2 31.25	+29 1.6	1.654	2.538	12.2	20.9	12 7	2 38.38	+ 6 17.5	1.827	2.682	12.7	19.2
12 17	2 26.32	+28 18.8	1.770	2.575	15.2	21.2	12 17	2 34.03	+ 6 25.4	1.911	2.675	15.7	19.4
<b>494012</b>	2016 <i>AT</i> <sub>121</sub>		11 9.7 333°14	8°4/ 2.8	17		<b>381013</b>	2006 <i>UX</i> <sub>102</sub>		11 9.7 207°24	3°2/ 7.6	16	
10 8	3 20.17	- 7 21.3	2.164	3.010	11.9	20.2	10 8	3 26.50	+11 59.8	1.687	2.551	13.9	21.4
10 18	3 15.53	- 8 30.8	2.108	3.002	10.0	20.1	10 18	3 20.56	+10 57.6	1.618	2.547	10.1	21.1
10 28	3 9.29	- 9 29.0	2.075	2.995	8.7	20.0	10 28	3 12.36	+ 9 49.9	1.572	2.543	6.1	20.9
11 7	3 2.09	-10 9.6	2.068	2.988	8.5	19.9	11 7	3 2.80	+ 8 42.6	1.554	2.538	3.2	20.7
11 17	2 54.74	-10 28.2	2.087	2.981	9.7	20.0	11 17	2 52.98	+ 7 42.0	1.563	2.533	5.6	20.8
11 27	2 48.06	-10 22.7	2.131	2.974	11.7	20.1	11 27	2 44.13	+ 6 54.6	1.601	2.528	9.7	21.1
12 7	2 42.75	- 9 53.7	2.197	2.968	13.8	20.3	12 7	2 37.22	+ 6 24.5	1.664	2.521	13.6	21.3
12 17	2 39.32	- 9 3.8	2.282	2.962	15.7	20.4	12 17	2 32.85	+ 6 13.4	1.747	2.515	16.9	21.5
<b>157700</b>	2006 <i>AF</i> <sub>18</sub>		11 9.7 150°86	4°7/ 5.9	18		<b>119035</b>	2001 <i>FD</i> <sub>23</sub>		11 9.7 174°20	0°6/ 9.3	18	
10 8	3 21.79	+ 3 41.0	2.307	3.165	10.9	19.8	10 8	3 22.72	+16 17.5	2.681	3.525	10.0	20.2
10 18	3 16.57	+ 2 50.0	2.246	3.167	8.2	19.6	10 18	3 17.15	+15 58.6	2.607	3.527	7.2	20.0
10 28	3 9.82	+ 2 2.1	2.211	3.169	5.7	19.5	10 28	3 10.16	+15 34.9	2.559	3.529	4.1	19.9
11 7	3 2.21	+ 1 21.9	2.203	3.170	4.7	19.4	11 7	3 2.32	+15 8.2	2.540	3.530	0.9	19.6
11 17	2 54.47	+ 0 53.5	2.225	3.172	6.1	19.5	11 17	2 54.34	+14 41.3	2.552	3.531	2.7	19.8
11 27	2 47.41	+ 0 39.6	2.274	3.173	8.7	19.7	11 27	2 46.95	+14 17.0	2.594	3.531	5.8	20.0
12 7	2 41.69	+ 0 41.5	2.349	3.174	11.3	19.9	12 7	2 40.79	+13 58.1	2.664	3.531	8.7	20.2
12 17	2 37.76	+ 0 58.8	2.445	3.176	13.6	20.0	12 17	2 36.29	+13 46.9	2.758	3.531	11.2	20.3
<b>216423</b>	2008 <i>TZ</i> <sub>135</sub>		11 9.7 9°86	1°0/10.9	18		<b>355141</b>	2006 <i>UG</i> <sub>272</sub>		11 9.7 79°16	2°5/ 9.5	18	
10 8	3 16.89	+22 40.8	4.127	4.951	7.2	20.3	10 8	3 45.61	+ 6 48.8	1.091	1.949	20.2	19.8
10 18	3 12.61	+22 38.5	4.046	4.952	5.3	20.1	10 18	3 35.62	+ 8 15.7	1.034	1.958	15.0	19.6
10 28	3 7.41	+22 30.7	3.992	4.952	3.3	20.0	10 28	3 21.55	+ 9 53.3	0.998	1.968	8.9	19.3
11 7	3 1.68	+22 18.2	3.967	4.953	1.3	19.9	11 7	3 4.87	+11 38.4	0.989	1.977	3.0	19.0
11 17	2 55.84	+22 2.2	3.974	4.954	1.7	19.9	11 17	2 47.71	+13 26.0	1.008	1.987	5.7	19.2
11 27	2 50.35	+21 44.3	4.011	4.954	3.7	20.0	11 27	2 32.44	+15 11.7	1.056	1.996	11.7	19.5
12 7	2 45.61	+21 26.6	4.077	4.955	5.7	20.2	12 7	2 20.79	+16 53.7	1.127	2.006	17.0	19.9
12 17	2 41.95	+21 11.0	4.170	4.956	7.5	20.3	12 17	2 13.57	+18 32.2	1.220	2.015	21.3	20.2
<b>481560</b>	2007 <i>RA</i> <sub>314</sub>		11 9.7 357°48	11°5/16.6	17		<b>71469</b>	2000 <i>BQ</i> <sub>14</sub>		11 9.7 297°64	5°0/ 6.8	18	
10 8	3 20.87	+40 8.3	1.135	1.955	22.1	19.8	10 8	3 25.48	+ 2 28.9	2.153	3.006	11.7	18.3
10 18	3 18.19	+41 11.4	1.072	1.947	18.9	19.6	10 18	3 19.63	+ 2 9.7	2.060	2.978	9.0	18.0
10 28	3 11.74	+41 40.9	1.025	1.942	15.5	19.3	10 28	3 11.83	+ 1 55.3	1.992	2.950	6.3	17.8
11 7	3 2.73	+41 30.2	0.997	1.939	12.7	19.2	11 7	3 2.74	+ 1 50.0	1.952	2.921	5.0	17.7
11 17	2 53.06	+40 37.6	0.989	1.938	11.5	19.1	11 17	2 53.20	+ 1 57.0	1.941	2.893	6.5	17.7
11 27	2 44.95	+39 10.3	1.002	1.938	12.9	19.2	11 27	2 44.20	+ 2 18.7	1.958	2.864	9.4	17.9
12 7	2 40.11	+37 22.4	1.037	1.941	15.8	19.4	12 7	2 36.63	+ 2 55.9	2.000	2.835	12.6	18.0
12 17	2 39.35	+35 29.4	1.091	1.946	19.2	19.6	12 17	2 31.13	+ 3 47.7	2.065	2.807	15.4	18.2
<b>166941</b>	2003 <i>HQ</i> <sub>46</sub>		11 9.7 86°11	3°0/ 8.1	17		<b>268372</b>	2005 <i>TS</i> <sub>150</sub>		11 9.7			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>490534</b>	2009 VW <sub>27</sub>		11 9.7 316°04	0°8/10.5	17		<b>197888</b>	2004 RR <sub>22</sub>		11 9.7 149°11	0°1/ 9.7	18	
10 8	3 21.66	+25 23.0	1.912	2.752	13.5	20.3	10 8	3 28.01	+18 28.9	1.994	2.838	12.9	21.5
10 18	3 17.08	+23 56.5	1.813	2.728	10.2	20.0	10 18	3 21.37	+18 7.2	1.928	2.847	9.4	21.3
10 28	3 10.41	+22 8.9	1.739	2.705	6.2	19.7	10 28	3 12.73	+17 37.1	1.887	2.856	5.4	21.1
11 7	3 2.42	+20 4.1	1.693	2.682	1.8	19.4	11 7	3 2.94	+17 1.0	1.874	2.864	1.2	20.8
11 17	2 54.13	+17 49.4	1.677	2.659	3.2	19.5	11 17	2 53.02	+16 22.5	1.891	2.871	3.1	21.0
11 27	2 46.63	+15 34.8	1.691	2.637	7.7	19.7	11 27	2 44.02	+15 46.2	1.937	2.878	7.2	21.3
12 7	2 40.86	+13 30.3	1.733	2.615	11.9	19.9	12 7	2 36.81	+15 16.5	2.010	2.884	10.8	21.5
12 17	2 37.42	+11 43.6	1.799	2.593	15.5	20.1	12 17	2 31.92	+14 56.7	2.107	2.889	13.9	21.7
<b>513530</b>	2010 CY <sub>16</sub>		11 9.7 228°86	5°9/ 5.5	18		<b>178186</b>	2006 UV <sub>167</sub>		11 9.7 171°30	2°2/ 8.2	18	
10 8	3 25.29	+ 1 5.5	2.160	3.012	11.7	21.9	10 8	3 23.90	+12 46.9	2.034	2.893	12.1	21.1
10 18	3 19.31	+ 0 9.1	2.087	3.001	9.1	21.7	10 18	3 18.37	+12 7.2	1.967	2.894	8.8	20.9
10 28	3 11.54	- 0 42.7	2.038	2.989	6.7	21.5	10 28	3 11.00	+11 23.5	1.924	2.895	5.1	20.7
11 7	3 2.66	- 1 24.5	2.018	2.976	5.9	21.5	11 7	3 2.57	+10 39.6	1.909	2.895	2.2	20.5
11 17	2 53.53	- 1 51.6	2.026	2.963	7.4	21.5	11 17	2 53.96	+ 9 59.8	1.923	2.896	4.2	20.6
11 27	2 45.08	- 2 0.6	2.062	2.949	10.0	21.7	11 27	2 46.15	+ 9 28.5	1.966	2.896	7.9	20.8
12 7	2 38.11	- 1 50.7	2.123	2.935	12.8	21.8	12 7	2 39.91	+ 9 8.8	2.035	2.897	11.3	21.0
12 17	2 33.16	- 1 22.7	2.204	2.920	15.3	22.0	12 17	2 35.79	+ 9 2.4	2.126	2.897	14.2	21.3
<b>18636</b>	Villedepompey		11 9.7 86°25	1°1/ 8.9	18		<b>5586</b>	1990 RE <sub>6</sub>		11 9.7 196°70	2°0/ 8.5	18	
10 8	3 23.39	+15 32.5	2.041	2.896	12.2	18.6	10 8	3 27.03	+13 55.1	1.863	2.718	13.2	17.4
10 18	3 17.98	+15 0.7	1.975	2.901	8.8	18.4	10 18	3 20.83	+13 13.7	1.790	2.716	9.6	17.2
10 28	3 10.75	+14 23.1	1.934	2.906	5.0	18.2	10 28	3 12.51	+12 26.5	1.742	2.713	5.5	16.9
11 7	3 2.48	+13 42.8	1.921	2.910	1.4	17.9	11 7	3 2.91	+11 37.5	1.722	2.710	2.1	16.7
11 17	2 54.06	+13 3.7	1.937	2.915	3.5	18.1	11 17	2 53.08	+10 51.4	1.731	2.706	4.4	16.8
11 27	2 46.45	+12 30.3	1.982	2.919	7.3	18.3	11 27	2 44.12	+10 13.6	1.769	2.702	8.4	17.1
12 7	2 40.43	+12 6.1	2.053	2.924	10.8	18.6	12 7	2 36.98	+ 9 48.0	1.833	2.697	12.2	17.3
12 17	2 36.51	+11 53.5	2.147	2.928	13.7	18.8	12 17	2 32.22	+ 9 36.9	1.919	2.691	15.4	17.5
<b>475241</b>	2005 WU <sub>20</sub>		11 9.7 223°23	1°6/10.7	18		<b>169432</b>	2002 AM <sub>30</sub>		11 9.7 248°21	2°9/ 8.3	18	
10 8	3 27.38	+22 37.9	1.710	2.554	14.7	21.6	10 8	3 28.05	+12 26.7	1.357	2.229	16.2	20.2
10 18	3 21.40	+22 28.2	1.634	2.551	11.0	21.4	10 18	3 22.20	+11 49.5	1.292	2.225	11.8	19.9
10 28	3 12.96	+22 5.5	1.582	2.547	6.7	21.1	10 28	3 13.56	+11 7.3	1.249	2.221	6.9	19.6
11 7	3 2.99	+21 30.8	1.555	2.543	2.4	20.9	11 7	3 3.17	+10 25.0	1.231	2.218	3.0	19.4
11 17	2 52.68	+20 47.6	1.557	2.538	3.5	20.9	11 17	2 52.42	+ 9 48.7	1.239	2.214	5.7	19.5
11 27	2 43.35	+20 1.5	1.587	2.534	7.9	21.2	11 27	2 42.85	+ 9 24.6	1.274	2.210	10.6	19.8
12 7	2 36.08	+19 18.9	1.642	2.529	12.1	21.4	12 7	2 35.67	+ 9 16.7	1.331	2.206	15.2	20.1
12 17	2 31.53	+18 45.2	1.721	2.524	15.7	21.6	12 17	2 31.57	+ 9 26.6	1.409	2.202	19.0	20.3
<b>30388</b>	Nicolejustice		11 9.7 314°65	0°8/ 9.2	18		<b>47537</b>	2000 AP <sub>108</sub>		11 9.7 11°11	3°1/ 7.8	18	
10 8	3 23.63	+16 48.2	1.756	2.617	13.6	18.9	10 8	3 23.79	+11 38.4	1.691	2.559	13.7	19.3
10 18	3 18.53	+16 19.5	1.682	2.610	9.9	18.7	10 18	3 18.57	+10 46.9	1.628	2.560	9.9	19.0
10 28	3 11.25	+15 42.5	1.630	2.603	5.7	18.4	10 28	3 11.23	+ 9 51.5	1.589	2.560	5.9	18.8
11 7	3 2.62	+15 0.6	1.606	2.596	1.3	18.1	11 7	3 2.64	+ 8 57.5	1.576	2.561	3.1	18.6
11 17	2 53.68	+14 18.2	1.609	2.589	3.7	18.2	11 17	2 53.85	+ 8 10.4	1.591	2.562	5.3	18.8
11 27	2 45.59	+13 40.6	1.641	2.583	8.2	18.5	11 27	2 45.99	+ 7 35.8	1.633	2.563	9.3	19.0
12 7	2 39.33	+13 12.6	1.697	2.576	12.2	18.7	12 7	2 39.99	+ 7 17.0	1.700	2.564	13.0	19.3
12 17	2 35.51	+12 57.4	1.776	2.570	15.6	19.0	12 17	2 36.41	+ 7 15.2	1.788	2.565	16.2	19.5
<b>113329</b>	2002 RS <sub>207</sub>		11 9.7 341°15	0°7/ 9.2	17		<b>75849</b>	2000 BM <sub>46</sub>		11 9.8 121°63	0°2/ 9.9	18	
10 8	3 21.38	+16 35.3	2.014	2.873	12.2	19.8	10 8	3 22.93	+19 8.0	2.389	3.232	11.1	20.5
10 18	3 16.65	+16 9.8	1.940	2.867	8.9	19.6	10 18	3 17.49	+18 50.8	2.318	3.236	8.1	20.3
10 28	3 10.07	+15 37.5	1.889	2.861	5.1	19.4	10 28	3 10.44	+18 26.2	2.272	3.241	4.7	20.1
11 7	3 2.35	+15 1.3	1.866	2.856	1.2	19.1	11 7	3 2.46	+17 56.2	2.255	3.245	1.1	19.9
11 17	2 54.40	+14 24.9	1.872	2.851	3.3	19.3	11 17	2 54.32	+17 23.7	2.268	3.249	2.6	20.0
11 27	2 47.17	+13 52.6	1.906	2.847	7.3	19.5	11 27	2 46.88	+16 52.1	2.311	3.253	6.1	20.3
12 7	2 41.50	+13 28.5	1.965	2.843	10.9	19.7	12 7	2 40.83	+16 25.2	2.381	3.257	9.3	20.5
12 17	2 37.93	+13 15.1	2.048	2.840	13.9	19.9	12 17	2 36.65	+16 5.8	2.475	3.261	12.0	20.7
<b>3028</b>	Zhangguoxi		11 9.7 212°72	2°6/ 7.5	18		<b>1064</b>	Aethusa		11 9.8 87°84	4°4/12.9	18	
10 8	3 21.60	+11 29.8	2.243	3.102	11.1	15.5	10 8	3 28.86	+31 17.0	1.734	2.548	15.8	14.7
10 18	3 16.55	+10 34.3	2.173	3.101	8.0	15.3	10 18	3 22.31	+31 6.4	1.676	2.567	12.4	14.5
10 28	3 9.90	+ 9 35.5	2.130	3.100	4.8	15.1	10 28	3 13.36	+30 35.1	1.641	2.586	8.6	14.3
11 7	3 2.30	+ 8 37.6	2.114	3.098	2.6	15.0	11 7	3 3.09	+29 43.6	1.631	2.604	5.2	14.2
11 17	2 54.56	+ 7 45.3	2.128	3.096	4.5	15.1	11 17	2 52.79	+28 35.6	1.649	2.623	4.8	14.2
11 27	2 47.50	+ 7 3.0	2.171	3.095	7.7	15.3	11 27	2 43.78	+27 18.4	1.696	2.641	7.7	14.4
12 7	2 41.83	+ 6 33.8	2.240	3.093	10.8	15.5	12 7	2 37.03	+26 0.5	1.768	2.658	11.2	14.7
12 17	2 38.03	+ 6 19.2	2.332	3.091	13.4	15.7	12 17	2 33.05	+24 49.5	1.865	2.676	14.3	14.9
<b>519673</b>	2012 YD <sub>11</sub>		11 9.7 284°34	0°8/10.2	18		<b>407140</b>	2009 TN <sub>4</sub>		11 9.8 317°97	0°1/ 9.8	17	
10 8	3 26.01	+19 58.9	1.777	2.627	13.9	21.9	10 8	3 25.63	+16 37.4	2.033	2.884	12.4	20.5
10 18	3 20.33	+19 55.2	1.699	2.620	10.3	21.7	10 18	3 19.82	+16 50.6	1.953	2.876	9.1	20.3
10 28	3 12.34	+19 41.7	1.645	2.613	6.1	21.4	10 28	3 11.97	+16 59.0	1.898	2.868	5.3	20.0
11 7	3 2.87	+19 19.9	1.617	2.606	1.7	21.1	11 7	3 2.82	+17 3.4	1.871	2.860	1.2	19.7
11 17	2 53.03	+18 52.4	1.617	2.599	3.3	21.2	11 17	2 53.32	+17 5.5	1.872	2.853	3.1	19.8
11 27	2 44.05	+18 24.1	1.645	2.591	7.8	21.5	11 27	2 44.53	+17 8.0	1.903	2.846	7.1	20.1
12 7	2 36.98	+17 59.9	1.700	2.584	11.9	21.7	12 7	2 37.36	+17 13.8	1.960	2.839	10.8	20.3
12 17	2 32.48	+17 44.0	1.776	2.577	15.3	21.9	12 17	2 32.45	+17 25.4	2.041	2.833	14.0	20.5
<b>518004</b>	2015 VZ <sub>35</sub>		11 9.7 60°91	1°5/10.5	18		<b>409305</b>	2004 TZ <sub>69</sub>		11 9.8 30°24	2°4/ 7.8	18	
10 8	3 27.74	+20 34.5	1.949	2.791	13.3	21.6	10 8	3 21.					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>348285</b>	2004 <i>XD</i> <sub>16</sub>		11 9.8 55°54'	3°7/ 8.2 18			<b>513277</b>	2006 <i>VY</i> <sub>15</sub>		11 9.8 313°68'	1°6/10.5 18		
10 8	3 28.86	+ 8 53.3	1.405	2.275	15.8	19.9	10 8	3 25.66	+21 39.8	1.282	2.147	17.3	21.3
10 18	3 22.31	+ 8 36.3	1.365	2.297	11.5	19.7	10 18	3 20.97	+21 34.9	1.203	2.131	13.0	21.0
10 28	3 13.34	+ 8 20.3	1.348	2.318	6.9	19.5	10 28	3 13.14	+21 14.9	1.146	2.116	8.0	20.7
11 7	3 3.09	+ 8 9.5	1.356	2.340	3.7	19.4	11 7	3 3.17	+20 41.0	1.112	2.101	2.6	20.3
11 17	2 52.87	+ 8 7.8	1.391	2.362	5.8	19.5	11 17	2 52.54	+19 56.9	1.103	2.086	4.2	20.4
11 27	2 44.02	+ 8 18.0	1.452	2.384	10.0	19.8	11 27	2 42.99	+19 10.0	1.120	2.072	9.8	20.7
12 7	2 37.49	+ 8 41.3	1.538	2.407	13.9	20.1	12 7	2 35.97	+18 28.5	1.160	2.058	15.0	20.9
12 17	2 33.78	+ 9 17.2	1.644	2.429	17.1	20.4	12 17	2 32.38	+17 59.2	1.219	2.046	19.5	21.2
<b>225462</b>	2000 <i>EV</i> <sub>55</sub>		11 9.8 334°34'	5°6/ 5.5 18			<b>169790</b>	2002 <i>PD</i> <sub>157</sub>		11 9.8 177°39'	2°7/11.5 18		
10 8	3 20.68	+ 3 23.8	1.973	2.840	12.1	19.6	10 8	3 26.72	+25 34.5	1.890	2.722	14.0	20.7
10 18	3 16.09	+ 2 17.7	1.909	2.834	9.2	19.4	10 18	3 20.76	+25 33.5	1.816	2.722	10.7	20.4
10 28	3 9.73	+ 1 14.8	1.870	2.828	6.6	19.2	10 28	3 12.56	+25 18.5	1.765	2.723	6.9	20.2
11 7	3 2.32	+ 0 20.9	1.857	2.822	5.6	19.1	11 7	3 2.98	+24 49.9	1.740	2.723	3.3	20.0
11 17	2 54.72	- 0 18.4	1.872	2.817	7.3	19.2	11 17	2 53.12	+24 10.1	1.744	2.723	3.6	20.0
11 27	2 47.85	- 0 39.4	1.913	2.812	10.1	19.4	11 27	2 44.19	+23 24.3	1.776	2.723	7.3	20.3
12 7	2 42.47	- 0 40.7	1.979	2.807	13.0	19.6	12 7	2 37.17	+22 38.6	1.835	2.723	11.0	20.5
12 17	2 39.11	- 0 22.8	2.064	2.803	15.5	19.8	12 17	2 32.67	+21 58.6	1.918	2.723	14.2	20.7
<b>464444</b>	2016 <i>BE</i> <sub>36</sub>		11 9.8 316°82'	7°2/14.4 18			<b>411820</b>	2012 <i>DZ</i> <sub>36</sub>		11 9.8 143°75'	3°6/12.9 17		
10 8	3 25.98	+37 3.3	2.057	2.839	14.8	20.0	10 8	3 26.06	+30 57.5	2.792	3.585	11.0	21.4
10 18	3 20.62	+37 47.4	1.962	2.820	12.4	19.8	10 18	3 19.70	+31 11.8	2.717	3.594	8.7	21.2
10 28	3 12.71	+38 12.9	1.888	2.801	9.8	19.6	10 28	3 11.72	+31 13.3	2.667	3.603	6.2	21.1
11 7	3 3.04	+38 16.2	1.839	2.782	7.7	19.4	11 7	3 2.78	+31 1.7	2.645	3.611	4.1	21.0
11 17	2 52.74	+37 56.0	1.816	2.764	7.2	19.3	11 17	2 53.66	+30 38.0	2.652	3.619	3.9	21.0
11 27	2 43.17	+37 15.1	1.820	2.746	8.8	19.4	11 27	2 45.22	+30 5.1	2.690	3.626	5.7	21.1
12 7	2 35.55	+36 20.1	1.849	2.728	11.4	19.5	12 7	2 38.17	+29 27.2	2.756	3.634	8.1	21.3
12 17	2 30.67	+35 18.8	1.902	2.711	14.2	19.7	12 17	2 33.02	+28 48.8	2.848	3.640	10.4	21.4
<b>516391</b>	1997 <i>LG</i> <sub>5</sub>		11 9.8 124°73'	3°7/ 6.7 18			<b>245336</b>	2005 <i>EH</i> <sub>148</sub>		11 9.8 99°75'	1°9/ 8.5 18		
10 8	3 23.04	+ 4 59.0	2.656	3.507	9.8	22.2	10 8	3 25.82	+13 24.7	1.942	2.799	12.7	21.1
10 18	3 17.26	+ 4 19.7	2.603	3.522	7.3	22.0	10 18	3 19.71	+12 50.7	1.888	2.815	9.1	20.9
10 28	3 10.19	+ 3 42.9	2.577	3.537	4.9	21.9	10 28	3 11.75	+12 12.8	1.859	2.830	5.3	20.7
11 7	3 2.40	+ 3 11.9	2.580	3.551	3.7	21.9	11 7	3 2.77	+11 34.5	1.858	2.845	2.0	20.6
11 17	2 54.58	+ 2 49.9	2.612	3.565	5.0	22.0	11 17	2 53.75	+10 59.9	1.885	2.860	4.1	20.7
11 27	2 47.41	+ 2 39.1	2.674	3.578	7.3	22.1	11 27	2 45.67	+10 33.3	1.942	2.875	7.8	21.0
12 7	2 41.46	+ 2 40.5	2.763	3.591	9.7	22.3	12 7	2 39.31	+10 17.5	2.025	2.890	11.2	21.2
12 17	2 37.13	+ 2 54.1	2.875	3.603	11.8	22.5	12 17	2 35.15	+10 14.1	2.130	2.904	14.0	21.5
<b>407936</b>	2012 <i>CV</i> <sub>40</sub>		11 9.8 71°40'	10°4/ 1.1 18			<b>155385</b>	1993 <i>UO</i> <sub>6</sub>		11 9.8 357°46'	1°9/ 9.1 18		
10 8	3 22.16	-13 14.6	2.104	2.930	13.0	20.3	10 8	3 26.39	+12 23.1	1.172	2.054	17.4	19.4
10 18	3 16.92	-14 45.0	2.073	2.940	11.4	20.2	10 18	3 21.38	+12 35.5	1.111	2.050	12.8	19.1
10 28	3 10.08	-15 58.0	2.066	2.951	10.5	20.2	10 28	3 13.28	+12 46.0	1.072	2.047	7.4	18.8
11 7	3 2.38	-16 47.1	2.083	2.962	10.6	20.2	11 7	3 3.18	+12 57.2	1.056	2.045	2.3	18.5
11 17	2 54.66	-17 8.4	2.124	2.973	11.6	20.3	11 17	2 52.64	+13 11.7	1.064	2.044	5.1	18.7
11 27	2 47.76	-17 0.8	2.188	2.984	13.1	20.4	11 27	2 43.36	+13 33.1	1.098	2.045	10.6	19.0
12 7	2 42.37	-16 26.6	2.273	2.995	14.8	20.6	12 7	2 36.71	+14 3.7	1.153	2.047	15.5	19.3
12 17	2 38.92	-15 29.8	2.375	3.005	16.3	20.7	12 17	2 33.45	+14 44.9	1.228	2.050	19.7	19.6
<b>308927</b>	2006 <i>SG</i> <sub>336</sub>		11 9.8 14°94'	1°2/ 9.1 18			<b>182974</b>	2002 <i>NT</i> <sub>23</sub>		11 9.8 22°48'	11°2/ 5.8 18		
10 8	3 25.08	+14 39.5	1.680	2.543	14.0	21.0	10 8	3 21.55	- 0 49.9	0.783	1.691	21.0	17.7
10 18	3 19.60	+14 27.0	1.615	2.545	10.2	20.7	10 18	3 17.95	- 2 8.5	0.766	1.707	16.4	17.6
10 28	3 11.88	+14 9.4	1.574	2.547	5.8	20.5	10 28	3 11.12	- 3 7.4	0.765	1.727	12.6	17.5
11 7	3 2.81	+13 49.5	1.560	2.549	1.6	20.2	11 7	3 2.64	- 3 35.2	0.784	1.748	11.2	17.5
11 17	2 53.50	+13 30.9	1.573	2.552	4.0	20.4	11 17	2 54.34	- 3 26.1	0.822	1.772	13.1	17.7
11 27	2 45.15	+13 17.7	1.614	2.555	8.4	20.7	11 27	2 47.91	- 2 40.5	0.880	1.797	16.6	18.0
12 7	2 38.73	+13 13.4	1.679	2.558	12.3	20.9	12 7	2 44.42	- 1 24.9	0.956	1.825	20.3	18.3
12 17	2 34.82	+13 20.2	1.767	2.562	15.7	21.1	12 17	2 44.27	+ 0 12.6	1.047	1.853	23.4	18.6
<b>116610</b>	2004 <i>BO</i> <sub>113</sub>		11 9.8 219°19'	0°5/ 9.4 18			<b>14798</b>	1978 <i>UW</i> <sub>4</sub>		11 9.8 250°45'	0°2/ 9.9 18		
10 8	3 26.53	+18 43.3	1.593	2.451	14.9	19.7	10 8	3 26.49	+20 40.0	1.502	2.359	15.7	17.7
10 18	3 20.82	+17 59.0	1.521	2.448	10.9	19.4	10 18	3 20.97	+19 58.0	1.429	2.354	11.6	17.4
10 28	3 12.65	+17 2.9	1.473	2.444	6.3	19.2	10 28	3 12.84	+19 1.5	1.378	2.349	6.8	17.2
11 7	3 2.99	+15 58.7	1.450	2.440	1.4	18.8	11 7	3 3.07	+17 53.8	1.354	2.343	1.6	16.8
11 17	2 53.04	+14 52.5	1.456	2.436	3.9	19.0	11 17	2 52.98	+16 41.0	1.356	2.338	3.8	17.0
11 27	2 44.13	+13 51.4	1.490	2.432	8.8	19.3	11 27	2 43.97	+15 31.4	1.386	2.332	8.9	17.3
12 7	2 37.32	+13 2.1	1.548	2.428	13.1	19.5	12 7	2 37.20	+14 32.6	1.441	2.326	13.5	17.5
12 17	2 33.25	+12 28.5	1.628	2.423	16.8	19.8	12 17	2 33.33	+13 49.8	1.517	2.321	17.4	17.7
<b>177608</b>	2004 <i>HC</i> <sub>5</sub>		11 9.8 191°23'	1°3/ 8.8 18			<b>39124</b>	2000 <i>WU</i> <sub>43</sub>		11 9.8 94°37'	0°2/ 9.7 18		
10 8	3 24.30	+14 54.6	2.190	3.041	11.6	21.0	10 8	3 22.69	+19 55.4	2.104	2.952	12.2	19.2
10 18	3 18.60	+14 24.8	2.116	3.041	8.4	20.8	10 18	3 17.47	+19 5.0	2.035	2.957	8.9	19.0
10 28	3 11.15	+13 49.7	2.069	3.040	4.8	20.6	10 28	3 10.50	+18 4.5	1.992	2.961	5.1	18.8
11 7	3 2.64	+13 12.4	2.049	3.038	1.5	20.4	11 7	3 2.52	+16 57.3	1.976	2.966	1.1	18.5
11 17	2 53.95	+12 36.4	2.059	3.036	3.5	20.5	11 17	2 54.43	+15 48.3	1.990	2.970	3.0	18.7
11 27	2 45.98	+12 5.7	2.099	3.034	7.1	20.7	11 27	2 47.16	+14 43.1	2.033	2.975	6.9	18.9
12 7	2 39.52	+11 43.7	2.165	3.032	10.5	21.0	12 7	2 41.45	+13 46.9	2.104	2.979	10.3	19.1
12 17	2 35.07	+11 32.7	2.255	3.030	13.3	21.1	12 17	2 37.79	+13 3.1	2.198	2.984	13.3	19.4
<b>89177</b>	2001 <i>UQ</i> <sub>62</sub>		11 9.8 167°39'	0°8/10.2 18			<b>170797</b>	2004 <i>DV</i> <sub>21</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>115689</b>	2003 <i>UG</i> <sub>153</sub>		11 9.8 305°02	4.4/ 7.8	18		<b>355051</b>	2006 <i>SJ</i> <sub>70</sub>		11 9.8 30°39	2°0/ 8.5	18	
10 8	3 27.16	+ 6 11.9	1.629	2.494	14.2	19.8	10 8	3 23.42	+14 20.2	1.699	2.565	13.7	20.6
10 18	3 21.32	+ 5 59.2	1.552	2.480	10.6	19.5	10 18	3 18.32	+13 36.8	1.638	2.570	9.9	20.4
10 28	3 13.03	+ 5 49.9	1.498	2.465	6.8	19.2	10 28	3 11.13	+12 47.3	1.601	2.574	5.7	20.1
11 7	3 3.14	+ 5 48.1	1.470	2.450	4.4	19.1	11 7	3 2.71	+11 56.3	1.591	2.579	2.1	19.9
11 17	2 52.79	+ 5 57.4	1.470	2.436	6.4	19.2	11 17	2 54.13	+11 9.1	1.608	2.584	4.4	20.1
11 27	2 43.28	+ 6 20.5	1.497	2.422	10.3	19.4	11 27	2 46.51	+10 31.2	1.653	2.589	8.6	20.3
12 7	2 35.72	+ 6 58.5	1.548	2.409	14.2	19.6	12 7	2 40.74	+10 6.4	1.722	2.595	12.4	20.6
12 17	2 30.82	+ 7 50.7	1.620	2.395	17.7	19.8	12 17	2 37.36	+ 9 56.7	1.813	2.601	15.6	20.8
<b>98695</b>	2000 <i>XX</i> <sub>23</sub>		11 9.8 213°05	3°6/12.2	18		<b>364134</b>	2006 <i>BQ</i> <sub>239</sub>		11 9.8 30°59	6°6/ 5.2	18	
10 8	3 27.95	+28 35.6	2.015	2.832	13.9	19.6	10 8	3 22.18	- 0 24.4	1.969	2.829	12.4	20.6
10 18	3 21.68	+28 39.1	1.932	2.827	10.8	19.4	10 18	3 17.11	- 1 22.4	1.917	2.834	9.6	20.4
10 28	3 13.13	+28 26.9	1.873	2.822	7.3	19.1	10 28	3 10.31	- 2 13.0	1.890	2.839	7.3	20.3
11 7	3 3.15	+27 58.5	1.839	2.816	4.2	19.0	11 7	3 2.54	- 2 50.4	1.890	2.844	6.6	20.3
11 17	2 52.82	+27 15.7	1.835	2.810	4.2	18.9	11 17	2 54.66	- 3 10.3	1.916	2.849	8.0	20.4
11 27	2 43.37	+26 23.5	1.859	2.803	7.2	19.1	11 27	2 47.59	- 3 10.2	1.969	2.855	10.5	20.5
12 7	2 35.78	+25 28.3	1.911	2.796	10.7	19.3	12 7	2 42.06	- 2 50.0	2.045	2.861	13.1	20.7
12 17	2 30.72	+24 36.6	1.986	2.789	13.9	19.5	12 17	2 38.55	- 2 11.7	2.142	2.867	15.4	20.9
<b>512891</b>	2016 <i>WD</i> <sub>31</sub>		11 9.8 295°09	10°1/ 5.2	18		<b>133170</b>	2003 <i>QC</i> <sub>42</sub>		11 9.8 11°96	6°0/ 4.6	18	
10 8	3 29.59	-10 15.0	1.773	2.605	14.8	20.5	10 8	3 19.50	+ 5 4.1	1.787	2.661	12.8	18.3
10 18	3 22.67	-10 47.9	1.717	2.602	12.5	20.4	10 18	3 15.32	+ 3 16.2	1.734	2.664	9.6	18.2
10 28	3 13.58	-11 3.0	1.684	2.598	10.6	20.3	10 28	3 9.34	+ 1 29.8	1.707	2.667	6.9	18.0
11 7	3 3.23	-10 53.9	1.675	2.595	10.1	20.2	11 7	3 2.33	+ 0 6.9	1.707	2.671	6.1	18.0
11 17	2 52.70	-10 17.3	1.692	2.592	11.2	20.3	11 17	2 55.21	- 1 26.2	1.734	2.676	8.0	18.1
11 27	2 43.19	- 9 13.3	1.735	2.590	13.4	20.4	11 27	2 48.93	- 2 22.5	1.787	2.681	10.9	18.3
12 7	2 35.60	- 7 45.4	1.800	2.587	15.8	20.6	12 7	2 44.26	- 2 53.9	1.863	2.687	13.9	18.5
12 17	2 30.52	- 5 58.9	1.886	2.584	18.1	20.8	12 17	2 41.68	- 3 1.0	1.959	2.694	16.4	18.7
<b>69612</b>	1998 <i>FW</i> <sub>46</sub>		11 9.8 287°11	2°0/ 8.7	18		<b>384326</b>	2009 <i>SM</i> <sub>271</sub>		11 9.8 63°55	1°6/10.7	18	
10 8	3 25.95	+15 32.0	1.374	2.245	16.0	19.3	10 8	3 29.73	+22 52.3	1.308	2.163	17.6	21.0
10 18	3 20.79	+14 45.1	1.301	2.234	11.7	19.0	10 18	3 23.26	+22 33.8	1.265	2.187	13.0	20.8
10 28	3 12.85	+13 48.2	1.250	2.224	6.8	18.7	10 28	3 14.04	+21 59.4	1.244	2.211	7.8	20.6
11 7	3 3.11	+12 46.4	1.224	2.213	2.2	18.4	11 7	3 3.35	+21 11.9	1.247	2.235	2.6	20.3
11 17	2 52.93	+11 46.4	1.224	2.202	5.1	18.6	11 17	2 52.73	+20 16.7	1.277	2.260	3.9	20.5
11 27	2 43.82	+10 56.2	1.251	2.191	10.3	18.8	11 27	2 43.70	+19 21.8	1.334	2.284	8.8	20.8
12 7	2 37.02	+10 22.0	1.300	2.181	15.1	19.1	12 7	2 37.30	+18 34.8	1.415	2.308	13.2	21.1
12 17	2 33.26	+10 7.1	1.370	2.171	19.1	19.3	12 17	2 34.03	+18 0.6	1.517	2.332	16.9	21.4
<b>364066</b>	2005 <i>XM</i> <sub>63</sub>		11 9.8 33°33	0°2/ 9.6	18		<b>265371</b>	2004 <i>RT</i> <sub>195</sub>		11 9.8 89°61	2°3/11.7	18	
10 8	3 24.41	+17 16.8	1.857	2.712	13.2	20.7	10 8	3 24.00	+26 34.2	2.167	2.993	12.7	20.2
10 18	3 18.95	+17 7.7	1.793	2.718	9.6	20.5	10 18	3 18.47	+26 10.2	2.098	3.001	9.6	20.0
10 28	3 11.45	+16 51.7	1.753	2.724	5.5	20.2	10 28	3 11.11	+25 32.3	2.054	3.010	6.2	19.8
11 7	3 2.76	+16 30.9	1.740	2.730	1.2	20.0	11 7	3 2.72	+24 41.9	2.036	3.019	2.9	19.6
11 17	2 53.88	+16 8.6	1.756	2.737	3.2	20.1	11 17	2 54.21	+23 42.5	2.048	3.028	3.1	19.7
11 27	2 45.90	+15 48.6	1.800	2.744	7.4	20.4	11 27	2 46.57	+22 39.3	2.090	3.036	6.3	19.9
12 7	2 39.68	+15 35.0	1.870	2.751	11.1	20.6	12 7	2 40.56	+21 38.2	2.159	3.045	9.6	20.1
12 17	2 35.79	+15 30.2	1.963	2.759	14.3	20.9	12 17	2 36.68	+20 44.2	2.252	3.054	12.5	20.3
<b>445698</b>	2011 <i>UP</i> <sub>182</sub>		11 9.8 40°51	2°7/11.6	15		<b>480291</b>	2015 <i>HZ</i> <sub>148</sub>		11 9.8 176°67	1°7/10.9	18	
10 8	3 24.99	+26 33.8	1.442	2.289	16.7	20.7	10 8	3 28.18	+23 54.5	1.795	2.632	14.4	21.7
10 18	3 19.73	+26 5.4	1.393	2.309	12.6	20.5	10 18	3 21.87	+23 33.3	1.722	2.634	10.8	21.5
10 28	3 11.97	+25 18.1	1.367	2.329	8.0	20.3	10 28	3 13.25	+22 57.7	1.673	2.636	6.7	21.2
11 7	3 2.86	+24 14.4	1.365	2.349	3.6	20.1	11 7	3 3.21	+22 9.2	1.650	2.636	2.5	21.0
11 17	2 53.76	+23 0.1	1.390	2.371	3.9	20.1	11 17	2 52.94	+21 11.8	1.656	2.637	3.3	21.0
11 27	2 46.02	+21 43.8	1.441	2.393	8.1	20.5	11 27	2 43.68	+20 11.7	1.690	2.637	7.6	21.3
12 7	2 40.61	+20 33.9	1.518	2.415	12.2	20.8	12 7	2 36.43	+19 15.8	1.751	2.636	11.6	21.5
12 17	2 38.02	+19 36.6	1.617	2.438	15.7	21.0	12 17	2 31.81	+18 29.5	1.835	2.635	15.0	21.8
<b>376114</b>	2010 <i>XY</i> <sub>34</sub>		11 9.8 29°28	0°2/ 9.8	18		<b>515608</b>	2014 <i>JG</i> <sub>85</sub>		11 9.8 32°03	3°3/ 7.7	18	
10 8	3 26.63	+19 45.0	1.244	2.113	17.5	21.0	10 8	3 24.77	+ 9 50.3	1.801	2.665	13.1	21.4
10 18	3 21.37	+19 15.1	1.185	2.116	12.8	20.8	10 18	3 19.23	+ 9 11.9	1.736	2.665	9.6	21.2
10 28	3 13.15	+18 31.2	1.148	2.120	7.5	20.5	10 28	3 11.65	+ 8 32.0	1.696	2.665	5.8	20.9
11 7	3 3.16	+17 37.1	1.134	2.124	1.7	20.1	11 7	3 2.86	+ 7 55.2	1.682	2.666	3.3	20.8
11 17	2 52.91	+16 39.0	1.146	2.128	4.2	20.3	11 17	2 53.86	+ 7 26.0	1.697	2.666	5.3	20.9
11 27	2 44.03	+15 45.2	1.184	2.133	9.8	20.6	11 27	2 45.74	+ 7 8.6	1.740	2.666	9.0	21.1
12 7	2 37.74	+15 3.2	1.245	2.138	14.6	20.9	12 7	2 39.39	+ 7 5.5	1.807	2.667	12.6	21.4
12 17	2 34.69	+14 37.6	1.326	2.143	18.7	21.2	12 17	2 35.36	+ 7 17.4	1.896	2.667	15.6	21.6
<b>162238</b>	1999 <i>TP</i> <sub>198</sub>		11 9.8 3°51	3°5/11.2	18		<b>366208</b>	2012 <i>RW</i> <sub>28</sub>		11 9.8 46°97	3°0/ 8.4	18	
10 8	3 28.26	+23 33.5	1.411	2.263	16.8	18.9	10 8	3 27.16	+11 53.5	1.282	2.158	16.6	20.1
10 18	3 22.59	+24 18.4	1.345	2.262	12.8	18.7	10 18	3 21.38	+11 22.8	1.239	2.174	12.0	19.9
10 28	3 13.95	+24 51.0	1.300	2.262	8.3	18.4	10 28	3 12.98	+10 49.2	1.218	2.191	7.0	19.6
11 7	3 3.37	+25 9.1	1.280	2.263	4.1	18.2	11 7	3 3.13	+10 17.7	1.221	2.208	3.1	19.5
11 17	2 52.29	+25 13.0	1.286	2.265	4.6	18.2	11 17	2 53.26	+ 9 53.7	1.251	2.226	5.6	19.7
11 27	2 42.38	+25 6.6	1.318	2.267	8.9	18.5	11 27	2 44.80	+ 9 42.0	1.306	2.244	10.2	20.0
12 7	2 34.94	+24 56.1	1.374	2.270	13.3	18.7	12 7	2 38.77	+ 9 45.2	1.384	2.262	14.5	20.3
12 17	2 30.76	+24 47.6	1.451	2.274	17.1	19.0	12 17	2 35.70	+10 3.9	1.482	2.281	18.0	20.6
<b>135002</b>	2001 <i>HU</i> <sub>27</sub>		11 9.8 74°78	0°2/ 9.7	18		<b>170476</b>	2003 <i>UZ</i> <sub>252</sub>					

EPHEMERIDES

11 9.8

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>246638</b>	2008 <i>XO</i> <sub>38</sub>		11 9.8 84°85	0°2/ 9.7 18			<b>110534</b>	2001 <i>TK</i> <sub>89</sub>		11 9.8 17°56	1°9/10.9 18		
10 8	3 29.96	+17 28.1	1.741	2.590	14.2	20.2	10 8	3 24.56	+23 31.9	1.741	2.586	14.4	19.5
10 18	3 22.84	+17 16.5	1.696	2.617	10.3	20.0	10 18	3 19.32	+23 21.2	1.672	2.588	10.8	19.3
10 28	3 13.61	+16 57.4	1.674	2.644	5.9	19.8	10 28	3 11.81	+22 57.1	1.626	2.591	6.7	19.0
11 7	3 3.26	+16 33.2	1.680	2.670	1.3	19.5	11 7	3 2.94	+22 21.0	1.607	2.593	2.6	18.8
11 17	2 52.96	+16 7.3	1.715	2.696	3.4	19.8	11 17	2 53.83	+21 36.4	1.615	2.596	3.4	18.8
11 27	2 43.86	+15 44.2	1.779	2.721	7.6	20.1	11 27	2 45.69	+20 48.8	1.651	2.600	7.5	19.1
12 7	2 36.82	+15 28.0	1.869	2.746	11.4	20.4	12 7	2 39.49	+20 4.6	1.713	2.603	11.4	19.3
12 17	2 32.33	+15 21.2	1.982	2.770	14.4	20.6	12 17	2 35.84	+19 28.7	1.797	2.607	14.8	19.6
<b>8557</b>	<i>Saroum</i>		11 9.8 60°14	5°6/ 7.1 18			<b>178822</b>	2001 <i>FV</i> <sub>164</sub>		11 9.8 184°14	1°0/10.5 17		
10 8	3 27.88	+ 6 36.6	1.260	2.138	16.7	18.0	10 8	3 29.03	+22 4.8	1.910	2.747	13.7	21.1
10 18	3 21.88	+ 5 43.9	1.219	2.152	12.4	17.8	10 18	3 22.39	+21 41.1	1.834	2.747	10.2	20.9
10 28	3 13.26	+ 4 54.2	1.200	2.168	8.0	17.6	10 28	3 13.52	+21 5.2	1.782	2.747	6.1	20.6
11 7	3 3.20	+ 4 14.7	1.205	2.183	5.6	17.6	11 7	3 3.32	+20 18.8	1.758	2.747	1.9	20.3
11 17	2 53.13	+ 3 51.6	1.236	2.199	7.8	17.7	11 17	2 52.87	+19 25.6	1.764	2.745	3.1	20.4
11 27	2 44.49	+ 3 48.9	1.291	2.214	11.8	18.0	11 27	2 43.36	+18 31.4	1.799	2.743	7.4	20.7
12 7	2 38.30	+ 4 7.1	1.369	2.230	15.7	18.3	12 7	2 35.76	+17 42.2	1.861	2.740	11.3	20.9
12 17	2 35.09	+ 4 44.3	1.466	2.246	19.0	18.6	12 17	2 30.66	+17 2.9	1.946	2.736	14.6	21.2
<b>450879</b>	2008 <i>AY</i> <sub>34</sub>		11 9.8 352°44	5°5/13.0 17			<b>184949</b>	2005 <i>WG</i> <sub>76</sub>		11 9.8 131°76	0°2/ 9.6 18		
10 8	3 24.74	+30 43.4	1.498	2.331	17.0	21.2	10 8	3 24.64	+17 23.1	2.644	3.483	10.3	20.8
10 18	3 20.03	+31 5.2	1.426	2.326	13.5	21.0	10 18	3 18.57	+17 7.0	2.579	3.497	7.4	20.6
10 28	3 12.48	+31 6.4	1.375	2.322	9.6	20.8	10 28	3 11.06	+16 45.3	2.541	3.510	4.3	20.4
11 7	3 3.09	+30 45.3	1.346	2.318	6.3	20.6	11 7	3 2.75	+16 20.1	2.533	3.523	0.9	20.2
11 17	2 53.26	+30 3.3	1.344	2.316	5.9	20.5	11 17	2 54.35	+15 53.7	2.555	3.535	2.5	20.4
11 27	2 44.54	+29 6.3	1.367	2.314	8.9	20.7	11 27	2 46.63	+15 29.1	2.608	3.547	5.7	20.6
12 7	2 38.21	+28 3.6	1.414	2.313	12.8	20.9	12 7	2 40.20	+15 9.4	2.689	3.558	8.6	20.8
12 17	2 35.00	+27 3.7	1.483	2.313	16.4	21.2	12 17	2 35.52	+14 56.6	2.795	3.569	11.0	21.0
<b>331574</b>	2001 <i>QW</i> <sub>226</sub>		11 9.8 53°61	2°6/11.4 18			<b>277404</b>	2005 <i>UE</i> <sub>184</sub>		11 9.8 177°90	0°2/ 9.7 18		
10 8	3 27.49	+25 43.2	1.316	2.168	17.8	20.1	10 8	3 28.27	+18 3.0	2.011	2.855	12.8	22.1
10 18	3 21.79	+25 20.8	1.266	2.184	13.4	19.9	10 18	3 21.69	+17 43.1	1.938	2.857	9.4	21.8
10 28	3 13.28	+24 38.8	1.238	2.202	8.4	19.7	10 28	3 13.07	+17 15.1	1.890	2.859	5.4	21.6
11 7	3 3.21	+23 39.6	1.234	2.219	3.6	19.4	11 7	3 3.22	+16 41.4	1.870	2.860	1.2	21.3
11 17	2 53.12	+22 29.2	1.256	2.237	4.1	19.5	11 17	2 53.15	+16 5.2	1.880	2.860	3.2	21.5
11 27	2 44.53	+21 16.5	1.304	2.256	8.7	19.8	11 27	2 43.94	+15 31.1	1.919	2.860	7.3	21.7
12 7	2 38.53	+20 10.7	1.377	2.274	13.2	20.1	12 7	2 36.48	+15 3.6	1.985	2.858	11.0	22.0
12 17	2 35.65	+19 18.1	1.471	2.293	16.9	20.4	12 17	2 31.35	+14 45.8	2.075	2.857	14.1	22.2
<b>188207</b>	2002 <i>SP</i> <sub>10</sub>		11 9.8 0°78	1°6/10.3 18			<b>411090</b>	2009 <i>VC</i> <sub>112</sub>		11 9.8 308°25	3°1/ 8.1 17		
10 8	3 26.86	+19 10.9	1.091	1.968	18.8	19.0	10 8	3 25.14	+ 8 16.7	1.996	2.856	12.3	20.6
10 18	3 22.07	+19 42.0	1.032	1.966	14.0	18.7	10 18	3 19.60	+ 8 9.4	1.907	2.833	9.1	20.4
10 28	3 13.86	+20 2.9	0.992	1.964	8.4	18.4	10 28	3 12.00	+ 8 3.2	1.842	2.810	5.6	20.1
11 7	3 3.42	+20 13.3	0.975	1.964	2.6	18.1	11 7	3 3.03	+ 8 1.2	1.804	2.787	3.2	19.9
11 17	2 52.45	+20 15.0	0.982	1.965	4.5	18.2	11 17	2 53.60	+ 8 6.1	1.795	2.765	5.0	20.0
11 27	2 42.88	+20 12.9	1.013	1.967	10.3	18.6	11 27	2 44.77	+ 8 20.7	1.815	2.743	8.6	20.2
12 7	2 36.22	+20 13.0	1.066	1.970	15.5	18.9	12 7	2 37.48	+ 8 46.5	1.860	2.721	12.2	20.4
12 17	2 33.28	+20 20.4	1.138	1.975	19.9	19.2	12 17	2 32.41	+ 9 24.0	1.928	2.700	15.4	20.5
<b>225438</b>	2000 <i>CC</i> <sub>110</sub>		11 9.8 316°42	0°4/ 9.5 17			<b>71104</b>	1999 <i>XA</i> <sub>145</sub>		11 9.8 144°55	0°1/ 9.9 18		
10 8	3 22.37	+17 32.6	2.003	2.858	12.4	20.7	10 8	3 26.53	+19 29.5	2.226	3.066	11.9	20.7
10 18	3 17.51	+17 10.9	1.921	2.846	9.1	20.5	10 18	3 20.18	+18 58.8	2.160	3.077	8.7	20.5
10 28	3 10.71	+16 41.6	1.864	2.835	5.2	20.2	10 28	3 12.08	+18 19.6	2.120	3.087	5.0	20.3
11 7	3 2.68	+16 7.1	1.834	2.824	1.1	19.9	11 7	3 3.00	+17 34.2	2.107	3.097	1.1	20.0
11 17	2 54.34	+15 31.0	1.832	2.813	3.2	20.1	11 17	2 53.82	+16 46.3	2.126	3.106	2.8	20.2
11 27	2 46.70	+14 57.6	1.859	2.802	7.3	20.3	11 27	2 45.47	+16 0.4	2.174	3.115	6.5	20.5
12 7	2 40.63	+14 31.4	1.912	2.791	11.0	20.5	12 7	2 38.72	+15 21.0	2.250	3.123	9.9	20.7
12 17	2 36.74	+14 15.4	1.988	2.781	14.2	20.7	12 17	2 34.03	+14 51.1	2.350	3.130	12.7	20.9
<b>487625</b>	2015 <i>MT</i> <sub>126</sub>		11 9.8 327°00	9°7/15.9 18			<b>192615</b>	1999 <i>GP</i> <sub>56</sub>		11 9.8 218°12	1°0/10.4 18		
10 8	3 30.14	+41 17.1	1.664	2.435	18.2	20.4	10 8	3 27.99	+20 46.3	1.810	2.654	14.0	21.4
10 18	3 24.25	+42 11.2	1.587	2.430	15.6	20.2	10 18	3 21.82	+20 39.1	1.732	2.650	10.4	21.2
10 28	3 15.08	+42 39.4	1.530	2.426	12.8	20.0	10 28	3 13.30	+20 21.3	1.678	2.645	6.2	20.9
11 7	3 3.70	+42 36.0	1.494	2.421	10.5	19.9	11 7	3 3.31	+19 54.2	1.651	2.640	1.9	20.6
11 17	2 51.71	+41 59.1	1.482	2.417	9.7	19.8	11 17	2 52.97	+19 20.7	1.652	2.634	3.3	20.7
11 27	2 40.94	+40 53.3	1.495	2.413	10.9	19.9	11 27	2 43.52	+18 45.6	1.682	2.628	7.7	21.0
12 7	2 32.90	+39 28.5	1.532	2.410	13.4	20.0	12 7	2 36.01	+18 14.6	1.739	2.622	11.7	21.2
12 17	2 28.42	+37 56.4	1.592	2.407	16.2	20.2	12 17	2 31.08	+17 52.0	1.818	2.615	15.2	21.4
<b>50341</b>	2000 <i>CR</i> <sub>63</sub>		11 9.8 50°79	6°9/ 4.7 18			<b>354449</b>	2004 <i>AQ</i> <sub>23</sub>		11 9.8 257°08	0°9/10.4 18		
10 8	3 22.52	+ 3 42.0	1.603	2.476	14.0	18.0	10 8	3 25.15	+21 34.7	1.989	2.832	13.0	22.0
10 18	3 17.58	+ 1 52.6	1.562	2.489	10.6	17.8	10 18	3 19.61	+21 14.2	1.904	2.821	9.7	21.8
10 28	3 10.65	+ 0 7.6	1.545	2.502	7.8	17.7	10 28	3 11.98	+20 42.3	1.843	2.809	5.8	21.5
11 7	3 2.65	- 1 24.0	1.554	2.516	7.0	17.7	11 7	3 3.02	+20 0.8	1.809	2.798	1.8	21.2
11 17	2 54.62	- 2 34.4	1.591	2.530	8.9	17.8	11 17	2 53.71	+19 13.0	1.805	2.786	3.0	21.3
11 27	2 47.64	- 3 18.7	1.652	2.544	11.9	18.0	11 27	2 45.17	+18 24.1	1.829	2.775	7.2	21.6
12 7	2 42.51	- 3 36.1	1.736	2.558	14.8	18.3	12 7	2 38.33	+17 39.7	1.880	2.763	11.0	21.8
12 17	2 39.70	- 3 28.5	1.840	2.572	17.4	18.5	12 17	2 33.81	+17 4.3	1.954	2.750	14.3	22.0
<b>373437</b>	1999 <i>TQ</i> <sub>170</sub>		11 9.8 351°66	1°2/10.2 18			<b>127297</b>	2002 <i>JD</i> <sub>81</sub>		11 9.8 88°98</			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>151222</b>	2001 YJ <sub>91</sub>		11 9.8 270°10	0°8/10.4	17		<b>306814</b>	2001 QS <sub>175</sub>		11 9.8 27°19	1°8/10.9	18	
10 8	3 24.43	+20 47.8	2.158	3.000	12.2	20.6	10 8	3 24.97	+23 1.4	1.638	2.487	15.0	20.9
10 18	3 18.99	+20 34.4	2.068	2.985	9.0	20.4	10 18	3 19.72	+22 52.6	1.574	2.493	11.2	20.7
10 28	3 11.59	+20 11.6	2.003	2.970	5.4	20.1	10 28	3 12.11	+22 30.4	1.533	2.498	6.9	20.4
11 7	3 2.94	+19 40.5	1.966	2.955	1.6	19.8	11 7	3 3.09	+21 56.3	1.517	2.504	2.6	20.2
11 17	2 53.94	+19 4.1	1.958	2.939	2.8	19.9	11 17	2 53.85	+21 13.9	1.529	2.511	3.4	20.3
11 27	2 45.59	+18 26.5	1.979	2.924	6.8	20.1	11 27	2 45.66	+20 29.1	1.568	2.518	7.8	20.5
12 7	2 38.77	+17 52.5	2.027	2.908	10.4	20.3	12 7	2 39.53	+19 48.1	1.633	2.525	11.8	20.8
12 17	2 34.10	+17 25.9	2.099	2.893	13.6	20.5	12 17	2 36.04	+19 16.0	1.720	2.533	15.3	21.0
<b>19935</b>	1981 EG <sub>12</sub>		11 9.8 175°99	0°5/ 9.5	18		<b>108237</b>	2001 HL <sub>41</sub>		11 9.8 219°43	5°6/ 6.3	18	
10 8	3 25.62	+18 30.9	2.092	2.938	12.3	19.4	10 8	3 26.67	+ 1 12.1	2.097	2.948	12.1	20.1
10 18	3 19.68	+17 47.7	2.020	2.940	9.0	19.2	10 18	3 20.44	+ 0 36.3	2.027	2.942	9.3	19.9
10 28	3 11.87	+16 55.4	1.972	2.942	5.2	18.9	10 28	3 12.35	+ 0 6.2	1.982	2.935	6.7	19.7
11 7	3 2.98	+15 57.2	1.953	2.943	1.1	18.7	11 7	3 3.14	- 0 13.5	1.965	2.928	5.6	19.7
11 17	2 53.92	+14 57.6	1.964	2.943	3.2	18.8	11 17	2 53.70	- 0 19.0	1.977	2.921	7.0	19.7
11 27	2 45.69	+14 2.0	2.004	2.944	7.1	19.1	11 27	2 45.00	- 0 8.0	2.016	2.913	9.8	19.9
12 7	2 39.08	+13 15.2	2.072	2.943	10.7	19.3	12 7	2 37.84	+ 0 19.9	2.081	2.905	12.6	20.1
12 17	2 34.62	+12 40.5	2.163	2.942	13.7	19.5	12 17	2 32.78	+ 1 3.4	2.167	2.896	15.2	20.2
<b>167925</b>	2005 ED <sub>134</sub>		11 9.8 259°73	1°1/ 9.1	18		<b>154759</b>	2004 PX <sub>11</sub>		11 9.8 176°67	1°3/ 8.9	18	
10 8	3 25.05	+16 11.2	1.857	2.713	13.2	21.3	10 8	3 27.34	+15 27.4	1.941	2.792	12.9	21.2
10 18	3 19.58	+15 37.6	1.777	2.703	9.6	21.0	10 18	3 21.05	+14 52.0	1.871	2.794	9.4	21.0
10 28	3 11.98	+14 56.3	1.722	2.693	5.5	20.8	10 28	3 12.74	+14 10.0	1.825	2.796	5.4	20.8
11 7	3 3.03	+14 10.6	1.694	2.683	1.5	20.5	11 7	3 3.23	+13 24.9	1.808	2.797	1.6	20.5
11 17	2 53.76	+13 24.8	1.694	2.673	3.8	20.6	11 17	2 53.52	+12 40.9	1.820	2.797	3.8	20.7
11 27	2 45.29	+12 44.5	1.723	2.662	8.1	20.9	11 27	2 44.69	+12 3.1	1.861	2.797	7.8	20.9
12 7	2 38.56	+12 14.1	1.778	2.652	12.0	21.1	12 7	2 37.61	+11 35.3	1.929	2.796	11.5	21.2
12 17	2 34.21	+11 56.9	1.855	2.641	15.4	21.3	12 17	2 32.85	+11 20.4	2.019	2.795	14.6	21.4
<b>97578</b>	2000 DP <sub>116</sub>		11 9.8 205°87	8°1/ 2.4	18		<b>237143</b>	2008 UU <sub>66</sub>		11 9.8 307°98	1°7/10.9	18	
10 8	3 21.55	- 8 49.7	2.436	3.271	11.2	19.3	10 8	3 26.26	+23 5.7	1.632	2.479	15.1	20.4
10 18	3 16.46	-10 3.9	2.385	3.269	9.5	19.2	10 18	3 20.78	+22 53.3	1.558	2.476	11.3	20.1
10 28	3 9.92	-11 6.6	2.359	3.267	8.3	19.1	10 28	3 12.81	+22 27.0	1.507	2.473	7.0	19.9
11 7	3 2.55	-11 52.3	2.359	3.265	8.3	19.1	11 7	3 3.28	+21 47.8	1.482	2.469	2.6	19.6
11 17	2 55.06	-12 17.0	2.385	3.263	9.3	19.2	11 17	2 53.41	+20 59.7	1.485	2.466	3.5	19.7
11 27	2 48.21	-12 18.8	2.437	3.261	11.0	19.3	11 27	2 44.54	+20 8.7	1.515	2.463	8.0	19.9
12 7	2 42.63	-11 58.3	2.510	3.259	12.9	19.4	12 7	2 37.78	+19 21.7	1.570	2.461	12.3	20.2
12 17	2 38.75	-11 18.0	2.603	3.256	14.5	19.6	12 17	2 33.78	+18 44.4	1.647	2.458	15.9	20.4
<b>72685</b>	2001 FG <sub>66</sub>		11 9.8 32°09	5°6/12.2	18		<b>281870</b>	2010 EH <sub>66</sub>		11 9.8 321°39	4°2/ 6.1	17	
10 8	3 32.20	+28 13.9	1.544	2.371	16.8	17.1	10 8	3 20.19	+ 4 49.1	2.490	3.349	10.1	20.5
10 18	3 25.45	+29 24.1	1.480	2.377	13.2	16.9	10 18	3 15.50	+ 3 56.7	2.424	3.346	7.6	20.3
10 28	3 15.67	+30 18.8	1.438	2.384	9.4	16.7	10 28	3 9.41	+ 3 6.2	2.384	3.344	5.2	20.1
11 7	3 3.90	+30 54.0	1.421	2.392	6.2	16.5	11 7	3 2.49	+ 2 21.9	2.372	3.342	4.2	20.1
11 17	2 51.63	+31 8.2	1.430	2.399	6.1	16.6	11 17	2 55.44	+ 1 47.7	2.389	3.339	5.6	20.2
11 27	2 40.53	+31 4.7	1.467	2.407	9.1	16.8	11 27	2 48.96	+ 1 26.5	2.435	3.337	8.0	20.3
12 7	2 31.98	+30 50.2	1.528	2.416	12.8	17.0	12 7	2 43.68	+ 1 20.0	2.506	3.335	10.6	20.5
12 17	2 26.75	+30 32.2	1.612	2.425	16.1	17.2	12 17	2 40.04	+ 1 28.1	2.599	3.333	12.8	20.6
<b>348069</b>	2003 UZ <sub>376</sub>		11 9.8 313°78	3°4/ 7.5	18		<b>130416</b>	2000 OJ <sub>58</sub>		11 9.8 36°43	4°6/ 8.0	18	
10 8	3 23.40	+11 59.6	1.641	2.510	13.9	20.3	10 8	3 27.81	+ 9 16.9	1.034	1.922	18.7	18.8
10 18	3 18.47	+10 49.9	1.573	2.506	10.1	20.0	10 18	3 22.38	+ 8 42.9	0.993	1.933	13.7	18.6
10 28	3 11.35	+ 9 34.5	1.530	2.501	6.1	19.8	10 28	3 13.83	+ 8 9.1	0.972	1.945	8.3	18.4
11 7	3 2.91	+ 8 19.8	1.513	2.497	3.4	19.6	11 7	3 3.49	+ 7 42.3	0.974	1.958	4.7	18.2
11 17	2 54.22	+ 7 12.8	1.524	2.493	5.7	19.8	11 17	2 53.07	+ 7 28.5	0.999	1.972	7.2	18.4
11 27	2 46.46	+ 6 20.2	1.561	2.489	9.8	20.0	11 27	2 44.28	+ 7 32.5	1.048	1.986	12.2	18.7
12 7	2 40.57	+ 5 46.3	1.623	2.485	13.7	20.2	12 7	2 38.35	+ 7 55.5	1.119	2.001	16.8	19.0
12 17	2 37.15	+ 5 32.5	1.706	2.481	16.9	20.4	12 17	2 35.83	+ 8 36.2	1.207	2.017	20.6	19.4
<b>108561</b>	2001 LY <sub>16</sub>		11 9.8 72°48	2°8/ 7.5	18		<b>244823</b>	2003 TR <sub>49</sub>		11 9.8 83°82	2°4/11.4	18	
10 8	3 21.72	+10 22.0	2.262	3.121	11.0	19.6	10 8	3 26.50	+25 19.6	1.752	2.589	14.7	20.7
10 18	3 16.63	+ 9 32.7	2.205	3.132	8.0	19.5	10 18	3 20.74	+25 7.3	1.685	2.595	11.1	20.5
10 28	3 10.03	+ 8 41.9	2.175	3.144	4.8	19.3	10 28	3 12.68	+24 39.7	1.640	2.600	7.1	20.3
11 7	3 2.59	+ 7 53.7	2.173	3.155	2.8	19.2	11 7	3 3.24	+23 58.2	1.621	2.606	3.2	20.0
11 17	2 55.08	+ 7 12.0	2.200	3.167	4.5	19.3	11 17	2 53.59	+23 6.2	1.631	2.611	3.5	20.1
11 27	2 48.30	+ 6 40.7	2.255	3.178	7.5	19.5	11 27	2 44.98	+22 9.7	1.668	2.617	7.5	20.3
12 7	2 42.89	+ 6 22.1	2.337	3.189	10.4	19.7	12 7	2 38.39	+21 15.7	1.732	2.622	11.4	20.6
12 17	2 39.30	+ 6 16.9	2.442	3.201	12.9	19.9	12 17	2 34.41	+20 29.8	1.819	2.628	14.7	20.8
<b>155669</b>	2000 HJ <sub>48</sub>		11 9.8 180°13	0°5/10.1	18		<b>367424</b>	2008 RM <sub>131</sub>		11 9.8 346°65	4°0/12.7	17	
10 8	3 28.35	+19 57.8	1.900	2.743	13.5	21.6	10 8	3 25.19	+29 49.4	2.243	3.053	12.8	20.4
10 18	3 21.91	+19 39.3	1.827	2.745	9.9	21.3	10 18	3 19.58	+30 8.6	2.163	3.051	10.1	20.2
10 28	3 13.29	+19 10.7	1.778	2.745	5.9	21.1	10 28	3 11.96	+30 13.7	2.108	3.050	7.1	20.1
11 7	3 3.35	+18 34.0	1.756	2.746	1.5	20.8	11 7	3 3.09	+30 4.0	2.078	3.049	4.6	19.9
11 17	2 53.16	+17 52.8	1.764	2.745	3.1	20.9	11 17	2 53.91	+29 40.3	2.078	3.048	4.3	19.9
11 27	2 43.89	+17 12.1	1.801	2.744	7.4	21.2	11 27	2 45.49	+29 6.2	2.106	3.047	6.7	20.0
12 7	2 36.48	+16 37.0	1.865	2.743	11.3	21.4	12 7	2 38.70	+28 26.9	2.161	3.046	9.6	20.2
12 17	2 31.52	+16 11.7	1.951	2.741	14.6	21.7	12 17	2 34.14	+27 47.8	2.240	3.046	12.4	20.4
<b>216756</b>	2005 QU <sub>127</sub>		11 9.8 189°66	6°4/ 4.5	18		<b>253465</b>	2003 SC <sub>25</sub>		11 9.8 49°17	3°6/11.6	18	
10 8	3 22.86	- 0 49.0	2.2										



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>52637</b>	1997 <i>WH</i> <sub>35</sub>		11 9.8 15°34'	1.8°/ 8.8 18			<b>29793</b>	1999 <i>CH</i> <sub>65</sub>		11 9.8 207°86'	0.4°/ 10.1 18		
10 8	3 25.19	+13 23.3	1.699	2.563	13.8	19.2	10 8	3 24.47	+20 38.8	2.162	3.004	12.1	18.1
10 18	3 19.74	+13 6.7	1.635	2.564	10.0	19.0	10 18	3 18.91	+20 4.8	2.084	3.001	8.9	17.9
10 28	3 12.10	+12 46.1	1.594	2.566	5.8	18.7	10 28	3 11.52	+19 20.5	2.030	2.998	5.3	17.7
11 7	3 3.13	+12 24.7	1.580	2.569	2.0	18.5	11 7	3 3.02	+18 28.5	2.005	2.994	1.3	17.4
11 17	2 53.93	+12 6.2	1.594	2.571	4.2	18.6	11 17	2 54.30	+17 32.5	2.009	2.990	2.8	17.5
11 27	2 45.66	+11 54.7	1.635	2.574	8.5	18.9	11 27	2 46.34	+16 37.6	2.043	2.986	6.7	17.7
12 7	2 39.28	+11 53.3	1.701	2.577	12.4	19.1	12 7	2 39.94	+15 48.9	2.104	2.981	10.2	17.9
12 17	2 35.37	+12 3.6	1.790	2.581	15.6	19.4	12 17	2 35.63	+15 10.4	2.188	2.977	13.3	18.1
<b>173789</b>	2001 <i>SM</i> <sub>98</sub>		11 9.8 97°94'	3°5'/ 12.5 18			<b>490440</b>	2009 <i>SA</i> <sub>136</sub>		11 9.8 331°13'	3°1'/ 7.2 18		
10 8	3 28.35	+28 56.8	2.095	2.907	13.5	20.3	10 8	3 20.11	+13 0.3	1.830	2.700	12.7	20.5
10 18	3 21.73	+29 0.4	2.035	2.927	10.5	20.1	10 18	3 15.97	+11 34.3	1.755	2.688	9.2	20.3
10 28	3 13.09	+28 48.7	1.999	2.946	7.1	20.0	10 28	3 9.91	+10 0.7	1.705	2.677	5.5	20.0
11 7	3 3.33	+28 22.0	1.990	2.965	4.2	19.8	11 7	3 2.67	+8 26.2	1.682	2.667	3.1	19.9
11 17	2 53.48	+27 42.3	2.009	2.983	4.0	19.9	11 17	2 55.18	+6 58.0	1.688	2.657	5.4	20.0
11 27	2 44.63	+26 54.5	2.058	3.001	6.7	20.1	11 27	2 48.46	+5 43.5	1.722	2.647	9.2	20.2
12 7	2 37.64	+26 4.7	2.135	3.019	9.8	20.3	12 7	2 43.34	+4 47.6	1.780	2.638	12.8	20.4
12 17	2 33.02	+25 18.3	2.235	3.037	12.6	20.5	12 17	2 40.40	+4 12.7	1.860	2.630	15.9	20.6
<b>142420</b>	2002 <i>SQ</i> <sub>34</sub>		11 9.8 104°60'	5°7'/ 5.8 18			<b>359648</b>	2011 <i>SQ</i>		11 9.8 350°67'	5°3'/ 12.5 18		
10 8	3 24.69	+3 26.6	1.927	2.787	12.6	20.0	10 8	3 24.35	+28 27.1	1.320	2.168	17.9	20.5
10 18	3 18.94	+2 16.0	1.880	2.801	9.5	19.8	10 18	3 20.12	+29 0.3	1.249	2.160	14.1	20.3
10 28	3 11.42	+1 9.6	1.858	2.814	6.7	19.7	10 28	3 12.78	+29 14.3	1.199	2.153	9.8	20.0
11 7	3 2.95	+0 13.5	1.863	2.828	5.7	19.7	11 7	3 3.37	+29 6.6	1.171	2.148	6.1	19.8
11 17	2 54.44	-0 27.1	1.897	2.841	7.3	19.8	11 17	2 53.38	+28 38.4	1.168	2.143	5.8	19.8
11 27	2 46.83	-0 48.8	1.957	2.853	10.0	20.0	11 27	2 44.55	+27 55.3	1.189	2.140	9.5	20.0
12 7	2 40.88	-0 50.7	2.042	2.866	12.8	20.2	12 7	2 38.31	+27 6.6	1.234	2.138	13.8	20.2
12 17	2 37.03	-0 33.9	2.148	2.878	15.2	20.4	12 17	2 35.45	+26 20.8	1.299	2.137	17.8	20.4
<b>221349</b>	2005 <i>WJ</i> <sub>96</sub>		11 9.8 141°57'	3°1'/ 7.6 18			<b>134730</b>	2000 <i>AX</i> <sub>97</sub>		11 9.8 17°69'	19°6'/ 20.4 18		
10 8	3 24.70	+7 27.2	2.429	3.281	10.6	20.5	10 8	3 43.01	+52 26.4	1.139	1.872	26.9	18.8
10 18	3 18.74	+7 4.5	2.366	3.287	7.8	20.3	10 18	3 36.85	+54 59.1	1.084	1.873	24.7	18.6
10 28	3 11.27	+6 43.0	2.329	3.294	4.9	20.1	10 28	3 24.12	+56 53.2	1.042	1.873	22.4	18.4
11 7	3 2.93	+6 25.5	2.321	3.301	3.1	20.0	11 7	3 6.14	+57 51.8	1.015	1.875	20.6	18.3
11 17	2 54.46	+6 15.0	2.343	3.307	4.5	20.1	11 17	2 46.25	+57 43.6	1.005	1.876	19.6	18.3
11 27	2 46.68	+6 13.6	2.394	3.312	7.3	20.3	11 27	2 28.94	+56 31.4	1.013	1.878	19.8	18.3
12 7	2 40.24	+6 22.9	2.472	3.318	10.1	20.5	12 7	2 17.52	+54 32.3	1.037	1.879	21.1	18.4
12 17	2 35.59	+6 42.9	2.574	3.323	12.5	20.7	12 17	2 13.14	+52 8.4	1.078	1.882	23.0	18.5
<b>278107</b>	2007 <i>BG</i> <sub>75</sub>		11 9.8 157°95'	0°9'/ 10.4 18			<b>157466</b>	2004 <i>XQ</i> <sub>105</sub>		11 9.8 130°60'	1°6'/ 8.9 18		
10 8	3 28.39	+21 13.2	1.942	2.781	13.4	21.6	10 8	3 27.39	+11 3.2	2.446	3.291	10.8	19.6
10 18	3 21.87	+20 54.8	1.872	2.787	9.9	21.4	10 18	3 20.74	+11 11.2	2.378	3.298	7.8	19.4
10 28	3 13.25	+20 25.5	1.827	2.793	5.9	21.2	10 28	3 12.46	+11 18.5	2.336	3.304	4.6	19.2
11 7	3 3.38	+19 47.1	1.810	2.798	1.7	20.9	11 7	3 3.22	+11 26.8	2.324	3.311	1.8	19.1
11 17	2 53.33	+19 3.3	1.821	2.803	3.0	21.0	11 17	2 53.82	+11 37.5	2.342	3.317	3.4	19.2
11 27	2 44.21	+18 18.9	1.863	2.807	7.2	21.3	11 27	2 45.10	+11 52.4	2.392	3.324	6.6	19.4
12 7	2 36.95	+17 39.5	1.931	2.810	10.9	21.6	12 7	2 37.78	+12 12.8	2.469	3.330	9.6	19.6
12 17	2 32.10	+17 9.1	2.022	2.813	14.1	21.8	12 17	2 32.35	+12 39.8	2.571	3.335	12.1	19.8
<b>60542</b>	2000 <i>EQ</i> <sub>66</sub>		11 9.8 121°31'	1°4'/ 8.9 18			<b>297272</b>	1996 <i>BV</i> <sub>9</sub>		11 9.8 88°00'	1°8'/ 8.6 18		
10 8	3 28.74	+15 3.0	1.762	2.617	13.9	19.6	10 8	3 24.74	+14 58.7	1.777	2.637	13.5	20.8
10 18	3 22.11	+14 31.8	1.706	2.631	10.0	19.4	10 18	3 19.26	+14 8.9	1.716	2.645	9.7	20.6
10 28	3 13.35	+13 54.5	1.674	2.645	5.7	19.2	10 28	3 11.74	+13 12.5	1.680	2.652	5.6	20.4
11 7	3 3.39	+13 14.8	1.669	2.658	1.7	19.0	11 7	3 3.07	+12 14.0	1.671	2.659	2.0	20.2
11 17	2 53.35	+12 37.1	1.693	2.671	4.0	19.1	11 17	2 54.26	+11 18.8	1.690	2.666	4.2	20.3
11 27	2 44.39	+12 6.3	1.746	2.683	8.2	19.4	11 27	2 46.41	+10 32.7	1.737	2.673	8.3	20.6
12 7	2 37.38	+11 46.2	1.825	2.695	12.0	19.7	12 7	2 40.38	+9 59.7	1.810	2.680	12.0	20.9
12 17	2 32.86	+11 38.8	1.926	2.706	15.1	19.9	12 17	2 36.68	+9 42.1	1.905	2.687	15.2	21.1
<b>285046</b>	2011 <i>FZ</i> <sub>132</sub>		11 9.8 264°90'	0°3'/ 9.6 17			<b>50274</b>	2000 <i>CN</i> <sub>1</sub>		11 9.8 237°73'	1°2'/ 10.5 18		
10 8	3 22.51	+17 34.6	2.441	3.287	10.8	22.0	10 8	3 28.33	+21 28.9	1.643	2.491	15.0	19.7
10 18	3 17.36	+17 11.7	2.355	3.276	7.9	21.8	10 18	3 22.34	+21 18.8	1.566	2.485	11.2	19.4
10 28	3 10.58	+16 42.2	2.295	3.265	4.5	21.6	10 28	3 13.78	+20 56.3	1.511	2.478	6.8	19.2
11 7	3 2.80	+16 8.3	2.264	3.253	1.0	21.3	11 7	3 3.57	+20 22.6	1.482	2.471	2.1	18.9
11 17	2 54.76	+15 32.8	2.262	3.242	2.7	21.4	11 17	2 52.94	+19 41.2	1.481	2.463	3.5	18.9
11 27	2 47.31	+14 59.5	2.290	3.231	6.3	21.6	11 27	2 43.29	+18 57.9	1.508	2.456	8.2	19.2
12 7	2 41.15	+14 32.0	2.345	3.219	9.5	21.8	12 7	2 35.75	+18 19.1	1.561	2.448	12.6	19.5
12 17	2 36.82	+14 13.0	2.425	3.207	12.3	22.0	12 17	2 31.04	+17 50.1	1.635	2.440	16.3	19.7
<b>275224</b>	2009 <i>WW</i> <sub>209</sub>		11 9.8 185°11'	1°2'/ 9.1 18			<b>332472</b>	2008 <i>DA</i> <sub>89</sub>		11 9.8 104°76'	1°6'/ 8.9 16		
10 8	3 28.80	+14 44.1	2.028	2.875	12.6	21.5	10 8	3 29.65	+15 9.0	1.630	2.487	14.7	21.7
10 18	3 22.10	+14 24.3	1.954	2.875	9.2	21.3	10 18	3 22.83	+14 31.2	1.581	2.507	10.6	21.5
10 28	3 13.38	+13 59.4	1.905	2.875	5.3	21.0	10 28	3 13.78	+13 47.1	1.555	2.526	6.1	21.2
11 7	3 3.43	+13 31.9	1.885	2.874	1.5	20.8	11 7	3 3.52	+13 0.7	1.556	2.545	1.9	21.0
11 17	2 53.24	+13 5.2	1.895	2.872	3.6	20.9	11 17	2 53.25	+12 17.1	1.586	2.563	4.2	21.2
11 27	2 43.87	+12 43.2	1.934	2.870	7.6	21.2	11 27	2 44.20	+11 41.7	1.644	2.581	8.6	21.5
12 7	2 36.22	+12 29.5	2.000	2.867	11.2	21.4	12 7	2 37.28	+11 18.6	1.728	2.599	12.5	21.8
12 17	2 30.86	+12 26.3	2.090	2.863	14.3	21.6	12 17	2 32.98	+11 9.6	1.833	2.615	15.7	22.1
<b>402145</b>	2004 <i>RM</i> <sub>41</sub>		11 9.8 53°71'	3°9'/ 12.3 18			<b>275422</b>	2011 <i>CZ</i> <sub>11</sub>		11 9.8 10°77'	1°8'/ 11.0 18</		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>202794</b>	2008 <i>QO</i> <sub>16</sub>		11 9.8 272°47'	3°9/12.8	17		<b>478531</b>	2012 <i>TR</i> <sub>2</sub>		11 9.8 287°70'	4°1/11.9	18	
10 8	3 25.26	+30 0.4	2.330	3.138	12.5	20.6	10 8	3 28.85	+26 52.7	1.572	2.407	16.2	20.9
10 18	3 19.60	+30 14.6	2.247	3.133	9.8	20.4	10 18	3 23.11	+27 17.0	1.488	2.394	12.6	20.6
10 28	3 11.99	+30 15.0	2.187	3.129	6.9	20.2	10 28	3 14.46	+27 25.6	1.426	2.381	8.5	20.3
11 7	3 3.16	+30 0.6	2.154	3.124	4.4	20.0	11 7	3 3.80	+27 16.4	1.388	2.368	4.8	20.1
11 17	2 54.01	+29 32.7	2.149	3.119	4.2	20.0	11 17	2 52.49	+26 50.4	1.377	2.354	4.9	20.1
11 27	2 45.57	+28 54.6	2.174	3.115	6.5	20.1	11 27	2 42.12	+26 12.4	1.394	2.341	8.7	20.3
12 7	2 38.70	+28 11.5	2.225	3.110	9.4	20.3	12 7	2 34.06	+25 29.9	1.435	2.328	13.0	20.5
12 17	2 34.01	+27 28.9	2.302	3.106	12.2	20.5	12 17	2 29.15	+24 50.6	1.497	2.315	16.9	20.7
<b>302674</b>	2002 <i>SR</i> <sub>68</sub>		11 9.8 15°82'	2°9/11.5	18		<b>395875</b>	2013 <i>AW</i> <sub>27</sub>		11 9.8 266°59'	5°2/ 7.1	18	
10 8	3 27.14	+24 52.8	1.706	2.545	15.0	21.0	10 8	3 27.33	+ 3 20.7	1.859	2.716	13.1	20.9
10 18	3 21.39	+25 7.0	1.635	2.546	11.4	20.8	10 18	3 21.22	+ 2 56.0	1.786	2.706	9.9	20.7
10 28	3 13.19	+25 7.6	1.588	2.547	7.4	20.6	10 28	3 12.98	+ 2 36.2	1.737	2.697	6.8	20.5
11 7	3 3.44	+24 54.4	1.566	2.549	3.6	20.3	11 7	3 3.42	+ 2 25.8	1.715	2.687	5.2	20.3
11 17	2 53.35	+24 29.2	1.571	2.551	3.9	20.4	11 17	2 53.53	+ 2 28.7	1.722	2.677	6.8	20.4
11 27	2 44.26	+23 56.8	1.605	2.553	7.7	20.6	11 27	2 44.43	+ 2 47.2	1.756	2.667	10.0	20.6
12 7	2 37.24	+23 23.5	1.664	2.555	11.7	20.9	12 7	2 37.06	+ 3 22.0	1.815	2.657	13.4	20.8
12 17	2 32.96	+22 54.8	1.745	2.558	15.1	21.1	12 17	2 32.05	+ 4 11.7	1.895	2.647	16.3	21.0
<b>484422</b>	2007 <i>YW</i> <sub>73</sub>		11 9.8 209°95'	4°9/13.5	17		<b>301386</b>	2009 <i>DO</i> <sub>14</sub>		11 9.9 157°52'	2°1/11.3	18	
10 8	3 27.53	+32 55.1	2.165	2.961	13.7	21.2	10 8	3 26.25	+24 36.5	1.925	2.759	13.7	20.7
10 18	3 21.42	+33 8.9	2.082	2.958	11.0	21.0	10 18	3 20.47	+24 26.7	1.851	2.761	10.3	20.5
10 28	3 13.11	+33 5.5	2.023	2.955	8.1	20.8	10 28	3 12.55	+24 3.5	1.802	2.762	6.5	20.3
11 7	3 3.42	+32 43.5	1.989	2.951	5.6	20.7	11 7	3 3.32	+23 27.9	1.778	2.763	2.8	20.1
11 17	2 53.39	+32 3.9	1.983	2.948	5.1	20.7	11 17	2 53.85	+22 42.9	1.784	2.764	3.3	20.1
11 27	2 44.21	+31 11.0	2.006	2.944	7.2	20.8	11 27	2 45.27	+21 53.7	1.818	2.765	7.1	20.3
12 7	2 36.85	+30 11.3	2.056	2.940	10.2	21.0	12 7	2 38.53	+21 6.3	1.879	2.766	10.8	20.6
12 17	2 31.93	+29 11.5	2.131	2.936	13.0	21.1	12 17	2 34.21	+20 26.0	1.963	2.767	14.0	20.8
<b>85226</b>	1993 <i>FQ</i> <sub>37</sub>		11 9.8 127°83'	0°1/ 9.9	18		<b>265420</b>	2004 <i>TD</i> <sub>268</sub>		11 9.9 7°27'	0°1/ 9.8	17	
10 8	3 25.04	+18 32.6	2.486	3.324	10.8	20.7	10 8	3 22.79	+17 49.3	1.548	2.415	14.8	20.7
10 18	3 19.01	+18 13.4	2.421	3.338	7.9	20.5	10 18	3 18.24	+17 41.3	1.486	2.416	10.8	20.5
10 28	3 11.44	+17 47.5	2.383	3.351	4.6	20.3	10 28	3 11.36	+17 24.9	1.447	2.419	6.3	20.2
11 7	3 3.01	+17 17.0	2.374	3.364	1.0	20.1	11 7	3 3.06	+17 2.5	1.433	2.423	1.4	19.9
11 17	2 54.49	+16 44.5	2.395	3.376	2.5	20.2	11 17	2 54.50	+16 37.8	1.445	2.427	3.5	20.1
11 27	2 46.70	+16 13.5	2.447	3.388	5.9	20.5	11 27	2 46.94	+16 15.8	1.484	2.433	8.2	20.4
12 7	2 40.29	+15 47.5	2.527	3.399	9.0	20.7	12 7	2 41.39	+16 0.9	1.548	2.439	12.4	20.6
12 17	2 35.72	+15 28.9	2.631	3.410	11.5	20.9	12 17	2 38.44	+15 56.4	1.633	2.447	15.9	20.9
<b>433352</b>	2013 <i>RU</i> <sub>84</sub>		11 9.8 72°97'	5°2/12.6	18		<b>431699</b>	2008 <i>EL</i> <sub>10</sub>		11 9.9 164°92'	3°7/ 7.6	16	
10 8	3 30.85	+29 35.0	1.359	2.192	18.4	21.3	10 8	3 28.46	+ 9 21.2	1.739	2.599	13.8	21.9
10 18	3 24.63	+29 55.0	1.298	2.201	14.4	21.1	10 18	3 22.01	+ 8 34.9	1.677	2.603	10.1	21.7
10 28	3 15.24	+29 53.4	1.259	2.209	9.9	20.9	10 28	3 13.40	+ 7 47.2	1.639	2.607	6.2	21.4
11 7	3 3.92	+29 28.4	1.242	2.218	6.0	20.7	11 7	3 3.51	+ 7 3.3	1.628	2.610	3.7	21.3
11 17	2 52.29	+28 42.5	1.252	2.226	5.7	20.7	11 17	2 53.43	+ 6 28.1	1.646	2.613	5.7	21.4
11 27	2 42.12	+27 42.9	1.287	2.235	9.3	20.9	11 27	2 44.35	+ 6 6.4	1.692	2.615	9.5	21.7
12 7	2 34.73	+26 39.8	1.347	2.244	13.5	21.2	12 7	2 37.18	+ 6 0.5	1.763	2.617	13.1	21.9
12 17	2 30.81	+25 42.2	1.428	2.253	17.2	21.4	12 17	2 32.50	+ 6 10.9	1.855	2.618	16.2	22.1
<b>487029</b>	2014 <i>OE</i> <sub>27</sub>		11 9.8 306°90'	7°7/15.5	17		<b>336123</b>	2008 <i>OK</i> <sub>10</sub>		11 9.9 6°61'	0°3/ 9.9	16	
10 8	3 27.51	+39 29.3	1.965	2.736	15.8	21.2	10 8	3 15.00	+22 4.1	0.862	1.763	20.2	18.9
10 18	3 21.87	+39 59.0	1.880	2.727	13.3	21.0	10 18	3 13.71	+21 3.2	0.817	1.764	14.9	18.6
10 28	3 13.59	+40 6.1	1.815	2.718	10.7	20.8	10 28	3 9.13	+19 38.9	0.789	1.767	8.7	18.3
11 7	3 3.57	+39 47.2	1.773	2.710	8.5	20.7	11 7	3 2.58	+17 59.2	0.782	1.772	2.0	17.9
11 17	2 53.07	+39 2.0	1.758	2.702	7.7	20.6	11 17	2 55.78	+16 16.3	0.797	1.781	4.7	18.2
11 27	2 43.55	+37 54.7	1.769	2.694	9.0	20.7	11 27	2 50.51	+14 44.3	0.833	1.792	11.0	18.6
12 7	2 36.19	+36 33.5	1.806	2.686	11.5	20.8	12 7	2 48.02	+13 34.1	0.890	1.805	16.5	18.9
12 17	2 31.73	+35 7.6	1.866	2.678	14.3	21.0	12 17	2 48.89	+12 50.3	0.964	1.821	21.0	19.3
<b>287737</b>	2003 <i>SX</i> <sub>5</sub>		11 9.8 86°80'	3°9/11.9	18 R		<b>165630</b>	2001 <i>FC</i> <sub>156</sub>		11 9.9 231°97'	1°0/10.5	18	
10 8	3 33.63	+26 40.2	1.389	2.225	17.9	20.3	10 8	3 26.58	+21 21.8	2.013	2.853	13.0	20.9
10 18	3 26.34	+26 59.5	1.338	2.245	13.6	20.1	10 18	3 20.69	+21 7.9	1.929	2.845	9.7	20.6
10 28	3 16.07	+27 0.4	1.309	2.265	9.0	19.9	10 28	3 12.70	+20 43.3	1.871	2.836	5.8	20.4
11 7	3 4.08	+26 42.1	1.304	2.285	4.7	19.7	11 7	3 3.37	+20 9.6	1.839	2.827	1.8	20.1
11 17	2 51.99	+26 7.2	1.326	2.304	4.8	19.7	11 17	2 53.71	+19 29.6	1.837	2.818	3.0	20.2
11 27	2 41.46	+25 22.7	1.376	2.323	8.8	20.0	11 27	2 44.82	+18 48.1	1.864	2.809	7.1	20.4
12 7	2 33.70	+24 37.1	1.450	2.342	13.0	20.3	12 7	2 37.64	+18 10.4	1.917	2.799	10.9	20.6
12 17	2 29.30	+23 57.8	1.545	2.360	16.6	20.6	12 17	2 32.79	+17 40.8	1.995	2.789	14.1	20.8
<b>223816</b>	2004 <i>TQ</i> <sub>97</sub>		11 9.8 193°47'	1°4/10.8	18		<b>116416</b>	2003 <i>YM</i> <sub>142</sub>		11 9.9 121°34'	6°1/15.2	18	
10 8	3 26.34	+21 38.1	2.345	3.177	11.6	21.2	10 8	3 30.35	+38 13.2	2.275	3.037	14.1	19.8
10 18	3 20.24	+21 50.4	2.266	3.176	8.7	21.0	10 18	3 23.29	+38 21.5	2.207	3.054	11.6	19.7
10 28	3 12.31	+21 54.6	2.213	3.175	5.3	20.8	10 28	3 14.08	+38 9.2	2.162	3.070	9.0	19.5
11 7	3 3.25	+21 50.9	2.188	3.174	2.0	20.5	11 7	3 3.65	+37 34.9	2.142	3.085	6.8	19.4
11 17	2 53.91	+21 40.8	2.193	3.173	2.7	20.6	11 17	2 53.13	+36 40.2	2.151	3.100	6.1	19.4
11 27	2 45.25	+21 27.2	2.227	3.172	6.2	20.8	11 27	2 43.68	+35 29.8	2.188	3.115	7.4	19.5
12 7	2 38.07	+21 13.6	2.290	3.170	9.4	21.0	12 7	2 36.20	+34 11.1	2.253	3.129	9.7	19.7
12 17	2 32.94	+21 3.5	2.377	3.169	12.2	21.2	12 17	2 31.22	+32 51.7	2.343	3.142	12.1	19.9
<b>330210</b>	2006 <i>FS</i> <sub>50</sub>		11 9.8 215°88'	4°8/ 6.2	17		<b>144680</b>	2004 <i>FP</i> <sub>140</sub>		11 9.9 1			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>84036</b>	2002 <i>PF</i> <sub>50</sub>		11 9.9 33°49'	0.7/10.2	18		<b>216079</b>	2006 <i>QY</i> <sub>57</sub>		11 9.9 14°63'	0.3/9.7	18	
10 8	3 28.01	+19 2.9	1.082	1.959	18.9	18.7	10 8	3 27.45	+15 46.0	1.591	2.452	14.8	19.9
10 18	3 22.66	+19 7.4	1.038	1.972	13.9	18.5	10 18	3 21.64	+16 0.1	1.527	2.455	10.8	19.6
10 28	3 14.10	+18 59.7	1.014	1.986	8.2	18.2	10 28	3 13.37	+16 9.1	1.486	2.458	6.3	19.4
11 7	3 3.69	+18 42.1	1.012	2.002	2.1	17.9	11 7	3 3.59	+16 14.2	1.471	2.461	1.4	19.1
11 17	2 53.13	+18 18.9	1.035	2.018	4.3	18.1	11 17	2 53.49	+16 17.6	1.484	2.465	3.6	19.3
11 27	2 44.22	+17 56.8	1.083	2.035	9.9	18.5	11 27	2 44.40	+16 22.6	1.524	2.469	8.3	19.6
12 7	2 38.20	+17 42.0	1.153	2.053	14.9	18.8	12 7	2 37.40	+16 32.3	1.589	2.474	12.5	19.8
12 17	2 35.66	+17 38.7	1.242	2.072	19.0	19.1	12 17	2 33.13	+16 49.4	1.676	2.480	16.0	20.1
<b>453529</b>	2009 <i>VF</i> <sub>73</sub>		11 9.9 72°02'	0.3/9.6	18		<b>410159</b>	2007 <i>JA</i> <sub>45</sub>		11 9.9 359°93'	0.6/10.4	18	
10 8	3 24.38	+17 47.2	2.093	2.942	12.2	21.5	10 8	3 22.28	+21 53.0	2.122	2.965	12.3	20.7
10 18	3 18.74	+17 23.3	2.037	2.959	8.8	21.3	10 18	3 17.38	+21 11.7	2.047	2.965	9.0	20.5
10 28	3 11.37	+16 52.5	2.006	2.976	5.1	21.1	10 28	3 10.69	+20 19.0	1.998	2.965	5.4	20.3
11 7	3 3.04	+16 17.3	2.003	2.992	1.1	20.9	11 7	3 2.96	+19 17.6	1.976	2.965	1.5	20.0
11 17	2 54.65	+15 41.2	2.029	3.009	2.9	21.0	11 17	2 55.05	+18 11.9	1.983	2.965	2.8	20.1
11 27	2 47.12	+15 8.3	2.084	3.026	6.7	21.3	11 27	2 47.91	+17 7.3	2.019	2.965	6.6	20.4
12 7	2 41.18	+14 42.5	2.166	3.043	10.0	21.5	12 7	2 42.30	+16 9.3	2.083	2.965	10.1	20.6
12 17	2 37.30	+14 26.2	2.272	3.059	12.9	21.8	12 17	2 38.75	+15 22.1	2.170	2.966	13.1	20.8
<b>457824</b>	2009 <i>SW</i> <sub>55</sub>		11 9.9 318°45'	0.7/10.4	18		<b>90193</b>	2003 <i>AZ</i> <sub>50</sub>		11 9.9 15°60'	1.9/9.2	18	
10 8	3 22.17	+22 18.0	2.049	2.893	12.6	21.1	10 8	3 25.68	+13 32.4	1.021	1.910	18.7	19.1
10 18	3 17.40	+21 36.0	1.968	2.886	9.3	20.9	10 18	3 21.13	+13 32.8	0.974	1.916	13.7	18.8
10 28	3 10.73	+20 41.5	1.913	2.879	5.6	20.7	10 28	3 13.34	+13 28.6	0.947	1.923	7.9	18.6
11 7	3 2.93	+19 37.2	1.884	2.873	1.6	20.4	11 7	3 3.59	+13 23.3	0.941	1.931	2.3	18.3
11 17	2 54.89	+18 27.5	1.884	2.866	2.8	20.5	11 17	2 53.58	+13 21.3	0.960	1.941	5.3	18.5
11 27	2 47.61	+17 18.4	1.914	2.860	6.9	20.7	11 27	2 45.10	+13 27.3	1.002	1.952	10.9	18.8
12 7	2 41.92	+16 15.9	1.970	2.854	10.5	20.9	12 7	2 39.47	+13 44.7	1.065	1.965	16.0	19.2
12 17	2 38.36	+15 24.6	2.051	2.849	13.7	21.1	12 17	2 37.34	+14 14.7	1.147	1.978	20.1	19.5
<b>382541</b>	2001 <i>TG</i> <sub>239</sub>		11 9.9 22°62'	5.3/7.6	18		<b>494615</b>	2017 <i>BD</i> <sub>133</sub>		11 9.9 87°39'	8.6/3.2	18	
10 8	3 26.30	+ 6 48.5	1.197	2.079	17.1	19.9	10 8	3 23.06	- 9 21.7	2.241	3.074	12.0	20.9
10 18	3 21.10	+ 6 15.4	1.149	2.085	12.6	19.6	10 18	3 17.68	-10 26.9	2.198	3.081	10.2	20.8
10 28	3 13.11	+ 5 45.4	1.123	2.092	8.1	19.4	10 28	3 10.75	-11 18.7	2.179	3.087	8.9	20.7
11 7	3 3.48	+ 5 25.0	1.120	2.100	5.4	19.3	11 7	3 2.96	-11 51.7	2.186	3.094	8.7	20.7
11 17	2 53.67	+ 5 19.5	1.142	2.109	7.5	19.5	11 17	2 55.11	-12 2.1	2.219	3.101	9.8	20.8
11 27	2 45.22	+ 5 32.4	1.188	2.119	11.8	19.7	11 27	2 48.01	-11 48.7	2.276	3.107	11.5	21.0
12 7	2 39.26	+ 6 4.4	1.256	2.129	16.0	20.0	12 7	2 42.31	-11 12.9	2.356	3.114	13.4	21.1
12 17	2 36.38	+ 6 53.6	1.343	2.140	19.6	20.3	12 17	2 38.47	-10 17.6	2.456	3.120	15.1	21.3
<b>134778</b>	2000 <i>DW</i> <sub>67</sub>		11 9.9 358°07'	1.2/10.6	18		<b>163268</b>	2002 <i>GG</i> <sub>81</sub>		11 9.9 88°09'	3.6/7.6	18	
10 8	3 25.74	+21 41.5	1.805	2.651	13.9	20.1	10 8	3 26.23	+10 0.0	1.708	2.572	13.7	20.2
10 18	3 20.21	+21 28.9	1.733	2.651	10.4	19.9	10 18	3 20.33	+ 9 7.5	1.658	2.587	10.0	20.0
10 28	3 12.45	+21 4.8	1.684	2.651	6.3	19.6	10 28	3 12.39	+ 8 13.6	1.632	2.601	6.1	19.8
11 7	3 3.33	+20 30.8	1.662	2.651	2.0	19.4	11 7	3 3.34	+ 7 23.6	1.633	2.615	3.6	19.7
11 17	2 53.95	+19 50.2	1.669	2.651	3.2	19.4	11 17	2 54.23	+ 6 42.8	1.662	2.629	5.6	19.9
11 27	2 45.48	+19 8.3	1.703	2.651	7.4	19.7	11 27	2 46.16	+ 6 15.8	1.719	2.643	9.2	20.1
12 7	2 38.88	+18 30.8	1.764	2.651	11.4	20.0	12 7	2 39.99	+ 6 4.9	1.800	2.657	12.7	20.4
12 17	2 34.77	+18 2.0	1.847	2.651	14.7	20.2	12 17	2 36.19	+ 6 10.6	1.903	2.671	15.7	20.6
<b>221772</b>	2007 <i>GY</i> <sub>64</sub>		11 9.9 186°94'	1.2/10.7	18		<b>228203</b>	5772 <i>T</i> <sub>-3</sub>		11 9.9 20°20'	3.0/7.9	18	
10 8	3 25.35	+21 24.6	2.460	3.292	11.2	20.6	10 8	3 24.33	+ 8 49.8	2.053	2.912	12.0	19.7
10 18	3 19.45	+21 28.6	2.381	3.292	8.3	20.4	10 18	3 18.83	+ 8 29.2	1.988	2.914	8.8	19.5
10 28	3 11.84	+21 24.7	2.328	3.291	5.0	20.2	10 28	3 11.53	+ 8 9.0	1.947	2.915	5.4	19.3
11 7	3 3.20	+21 13.4	2.303	3.291	1.8	20.0	11 7	3 3.16	+ 7 52.2	1.934	2.917	3.1	19.2
11 17	2 54.31	+20 56.6	2.309	3.290	2.6	20.1	11 17	2 54.60	+ 7 42.3	1.950	2.919	4.7	19.3
11 27	2 46.07	+20 37.2	2.344	3.289	5.9	20.3	11 27	2 46.79	+ 7 41.9	1.995	2.921	8.1	19.5
12 7	2 39.23	+20 18.7	2.408	3.287	9.0	20.5	12 7	2 40.53	+ 7 52.9	2.065	2.923	11.3	19.7
12 17	2 34.31	+20 4.4	2.496	3.286	11.8	20.7	12 17	2 36.33	+ 8 15.5	2.158	2.926	14.1	19.9
<b>225489</b>	2000 <i>HD</i> <sub>26</sub>		11 9.9 174°45'	1.9/10.2	17		<b>258029</b>	2001 <i>HL</i> <sub>20</sub>		11 9.9 198°94'	7.1/3.3	18	
10 8	3 44.03	+16 28.6	1.209	2.058	19.2	20.2	10 8	3 22.60	- 8 28.5	2.815	3.641	10.1	20.9
10 18	3 34.89	+17 58.6	1.140	2.059	14.4	19.9	10 18	3 17.15	- 9 22.3	2.757	3.638	8.4	20.8
10 28	3 21.65	+19 27.0	1.094	2.061	8.7	19.6	10 28	3 10.39	-10 6.1	2.725	3.635	7.3	20.7
11 7	3 5.53	+20 48.4	1.073	2.061	2.9	19.2	11 7	3 2.90	-10 35.6	2.721	3.631	7.1	20.7
11 17	2 48.51	+21 57.9	1.081	2.062	4.8	19.4	11 17	2 55.28	-10 47.6	2.743	3.627	8.1	20.8
11 27	2 32.95	+22 55.0	1.117	2.062	10.8	19.7	11 27	2 48.21	-10 40.5	2.793	3.623	9.6	20.9
12 7	2 20.72	+23 43.3	1.178	2.061	16.1	20.0	12 7	2 42.26	-10 14.9	2.866	3.618	11.3	21.0
12 17	2 12.85	+24 28.2	1.259	2.061	20.4	20.3	12 17	2 37.85	- 9 32.7	2.960	3.613	12.9	21.1
<b>323711</b>	2005 <i>JS</i>		11 9.9 149°19'	2.8/7.9	16		<b>224124</b>	2005 <i>QO</i> <sub>13</sub>		11 9.9 36°79'	5.3/12.7	18	
10 8	3 28.22	+12 40.3	1.804	2.660	13.5	21.7	10 8	3 28.54	+29 21.2	1.218	2.063	19.4	19.2
10 18	3 21.74	+11 37.0	1.744	2.670	9.8	21.5	10 18	3 23.13	+29 41.7	1.166	2.075	15.1	19.0
10 28	3 13.20	+10 28.8	1.709	2.679	5.8	21.3	10 28	3 14.47	+29 39.1	1.134	2.087	10.4	18.7
11 7	3 3.50	+ 9 20.9	1.703	2.688	2.8	21.1	11 7	3 3.86	+29 12.1	1.124	2.101	6.3	18.5
11 17	2 53.70	+ 8 19.5	1.725	2.695	5.0	21.3	11 17	2 53.03	+28 23.9	1.139	2.115	5.9	18.6
11 27	2 44.92	+ 7 30.3	1.776	2.702	8.9	21.5	11 27	2 43.78	+27 22.7	1.179	2.130	9.6	18.8
12 7	2 38.01	+ 6 57.0	1.853	2.709	12.5	21.7	12 7	2 37.44	+26 19.2	1.242	2.145	13.9	19.1
12 17	2 33.51	+ 6 41.1	1.951	2.714	15.5	22.0	12 17	2 34.62	+25 22.6	1.326	2.161	17.7	19.4
<b>453940</b>	2011 <i>YX</i> <sub>40</sub>		11 9.9 296°22'	7.3/15.1	17		<b>176505</b>	2001 <i>YF</i> <sub>29</sub>		11 9.9 53°51'			

EPHEMERIDES

11 9.9

11 9.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>251163</b>	2006 TY <sub>87</sub>	11	9.9 229°79	1°2/10.7	18		<b>448924</b>	2011 UJ <sub>397</sub>	11	9.9 310°55	2°0/11.1	18	
10 8	3 26.27	+21 24.3	1.976	2.817	13.1	20.6	10 8	3 24.77	+23 52.8	1.686	2.532	14.8	20.8
10 18	3 20.48	+21 23.3	1.901	2.816	9.8	20.4	10 18	3 19.84	+23 40.2	1.603	2.519	11.2	20.5
10 28	3 12.61	+21 12.5	1.850	2.815	5.9	20.2	10 28	3 12.46	+23 13.0	1.543	2.507	7.0	20.3
11 7	3 3.44	+20 52.7	1.826	2.814	2.0	19.9	11 7	3 3.48	+22 32.2	1.508	2.494	2.8	20.0
11 17	2 53.99	+20 26.5	1.832	2.813	3.0	20.0	11 17	2 54.05	+21 41.3	1.501	2.482	3.5	20.0
11 27	2 45.35	+19 58.0	1.865	2.812	7.0	20.2	11 27	2 45.50	+20 46.2	1.521	2.471	7.9	20.2
12 7	2 38.45	+19 31.8	1.926	2.811	10.7	20.4	12 7	2 38.93	+19 54.0	1.567	2.460	12.2	20.5
12 17	2 33.88	+19 12.2	2.010	2.809	13.9	20.7	12 17	2 35.05	+19 10.9	1.635	2.449	15.9	20.7
<b>87096</b>	2000 LU <sub>9</sub>	11	9.9 176°38	0°2/10.0	18		<b>53528</b>	2000 AW <sub>177</sub>	11	9.9 24°29	1°4/10.9	18	
10 8	3 28.28	+19 42.4	2.001	2.842	13.0	20.1	10 8	3 22.98	+25 1.5	1.351	2.209	17.0	17.5
10 18	3 21.83	+19 17.4	1.928	2.845	9.6	19.9	10 18	3 18.63	+23 58.1	1.294	2.218	12.7	17.2
10 28	3 13.33	+18 42.7	1.879	2.847	5.6	19.7	10 28	3 11.68	+22 34.0	1.259	2.227	7.7	17.0
11 7	3 3.60	+18 0.4	1.858	2.848	1.3	19.4	11 7	3 3.26	+20 54.2	1.249	2.237	2.5	16.7
11 17	2 53.65	+17 14.5	1.867	2.849	3.0	19.5	11 17	2 54.74	+19 7.3	1.265	2.248	3.6	16.8
11 27	2 44.58	+16 29.7	1.906	2.848	7.2	19.8	11 27	2 47.52	+17 24.0	1.308	2.259	8.7	17.1
12 7	2 37.26	+15 51.3	1.971	2.848	10.9	20.0	12 7	2 42.62	+15 54.2	1.375	2.272	13.2	17.4
12 17	2 32.29	+15 22.9	2.061	2.846	14.0	20.2	12 17	2 40.56	+14 44.0	1.464	2.285	17.0	17.7
<b>1150</b>	Achaia	11	9.9 41°55	0°9/ 9.4	18 R		<b>455992</b>	2005 WM <sub>182</sub>	11	9.9 3°18	4°2/ 7.9	17	
10 8	3 27.51	+18 12.5	0.962	1.848	20.0	14.8	10 8	3 23.14	+ 8 1.9	1.379	2.259	15.4	20.0
10 18	3 22.35	+17 30.5	0.927	1.866	14.5	14.6	10 18	3 18.68	+ 7 44.2	1.322	2.258	11.3	19.8
10 28	3 13.92	+16 35.3	0.911	1.886	8.3	14.3	10 28	3 11.74	+ 7 28.3	1.287	2.258	7.1	19.5
11 7	3 3.72	+15 33.2	0.917	1.907	1.9	14.0	11 7	3 3.30	+ 7 19.0	1.277	2.260	4.2	19.4
11 17	2 53.59	+14 32.8	0.946	1.928	5.0	14.3	11 17	2 54.57	+ 7 20.4	1.292	2.263	6.3	19.5
11 27	2 45.31	+13 43.5	1.000	1.950	10.9	14.7	11 27	2 46.92	+ 7 35.8	1.332	2.267	10.4	19.8
12 7	2 40.05	+13 11.6	1.075	1.973	15.9	15.1	12 7	2 41.38	+ 8 6.3	1.395	2.272	14.5	20.0
12 17	2 38.30	+12 59.5	1.168	1.996	20.0	15.4	12 17	2 38.59	+ 8 51.1	1.478	2.279	17.9	20.3
<b>258719</b>	2002 GH <sub>82</sub>	11	9.9 179°74	0°7/ 9.5	17		<b>170834</b>	2004 EY <sub>85</sub>	11	9.9 200°12	2°0/ 8.6	18	
10 8	3 31.34	+16 1.7	1.766	2.614	14.1	21.0	10 8	3 25.36	+12 40.4	2.034	2.889	12.2	20.5
10 18	3 24.29	+15 50.7	1.694	2.616	10.3	20.8	10 18	3 19.67	+12 14.1	1.963	2.888	8.9	20.3
10 28	3 14.86	+15 33.0	1.647	2.617	6.0	20.5	10 28	3 12.08	+11 44.3	1.917	2.887	5.2	20.0
11 7	3 3.97	+15 11.0	1.628	2.617	1.4	20.2	11 7	3 3.36	+11 14.4	1.898	2.886	2.1	19.8
11 17	2 52.78	+14 48.0	1.637	2.617	3.7	20.4	11 17	2 54.41	+10 47.8	1.909	2.884	4.0	20.0
11 27	2 42.57	+14 28.2	1.676	2.616	8.2	20.7	11 27	2 46.23	+10 28.5	1.949	2.882	7.7	20.2
12 7	2 34.38	+14 15.9	1.741	2.614	12.3	20.9	12 7	2 39.63	+10 19.3	2.015	2.880	11.2	20.4
12 17	2 28.85	+14 14.0	1.828	2.612	15.7	21.2	12 17	2 35.18	+10 21.9	2.103	2.878	14.2	20.6
<b>317320</b>	2002 HY <sub>16</sub>	11	9.9 229°77	1°7/11.0	17		<b>146769</b>	2001 XX <sub>215</sub>	11	9.9 315°95	4°4/ 7.5	18	
10 8	3 26.16	+22 39.7	2.340	3.170	11.7	21.2	10 8	3 26.39	+ 5 1.6	1.934	2.792	12.6	19.7
10 18	3 20.21	+22 48.8	2.257	3.165	8.8	21.0	10 18	3 20.46	+ 4 44.2	1.866	2.789	9.5	19.5
10 28	3 12.40	+22 48.8	2.198	3.159	5.5	20.8	10 28	3 12.57	+ 4 30.5	1.823	2.786	6.2	19.3
11 7	3 3.41	+22 40.1	2.168	3.154	2.3	20.5	11 7	3 3.48	+ 4 24.3	1.807	2.783	4.4	19.2
11 17	2 54.11	+22 24.2	2.167	3.148	2.8	20.6	11 17	2 54.13	+ 4 28.7	1.819	2.780	5.9	19.3
11 27	2 45.46	+22 4.1	2.196	3.141	6.2	20.8	11 27	2 45.58	+ 4 46.1	1.859	2.777	9.1	19.5
12 7	2 38.29	+21 43.7	2.253	3.135	9.5	21.0	12 7	2 38.68	+ 5 17.0	1.925	2.774	12.4	19.7
12 17	2 33.18	+21 26.9	2.335	3.129	12.3	21.2	12 17	2 34.01	+ 6 0.8	2.012	2.772	15.2	19.9
<b>366013</b>	2012 BU <sub>126</sub>	11	9.9 87°42	6°0/ 5.4	18		<b>330944</b>	2009 SY <sub>274</sub>	11	9.9 88°55	0°3/ 9.7	18	
10 8	3 22.77	+ 0 35.6	2.148	3.005	11.6	20.4	10 8	3 24.98	+17 29.6	2.221	3.067	11.7	21.3
10 18	3 17.57	- 0 23.6	2.093	3.009	9.0	20.2	10 18	3 19.15	+17 11.2	2.163	3.083	8.5	21.1
10 28	3 10.75	- 1 16.9	2.064	3.013	6.7	20.1	10 28	3 11.67	+16 46.5	2.130	3.099	4.9	20.9
11 7	3 3.01	- 1 59.0	2.061	3.017	6.0	20.0	11 7	3 3.25	+16 17.7	2.125	3.115	1.1	20.7
11 17	2 55.16	- 2 25.6	2.086	3.021	7.4	20.1	11 17	2 54.75	+15 47.9	2.151	3.131	2.8	20.8
11 27	2 48.03	- 2 34.0	2.138	3.025	9.8	20.3	11 27	2 47.06	+15 20.7	2.205	3.147	6.4	21.1
12 7	2 42.34	- 2 23.7	2.215	3.029	12.3	20.5	12 7	2 40.89	+14 59.6	2.287	3.162	9.7	21.3
12 17	2 38.54	- 1 56.0	2.312	3.033	14.5	20.6	12 17	2 36.69	+14 47.0	2.393	3.177	12.4	21.5
<b>189738</b>	2001 XO <sub>71</sub>	11	9.9 350°54	5°7/ 6.9	18		<b>329907</b>	2005 JZ <sub>111</sub>	11	9.9 132°22	0°1/ 9.9	16	
10 8	3 24.12	+ 6 54.4	1.263	2.146	16.3	19.4	10 8	3 30.05	+19 32.6	1.729	2.575	14.5	22.0
10 18	3 19.59	+ 5 59.6	1.205	2.141	12.2	19.2	10 18	3 23.25	+19 4.4	1.668	2.588	10.6	21.7
10 28	3 12.35	+ 5 6.0	1.168	2.137	8.0	18.9	10 28	3 14.19	+18 25.7	1.632	2.600	6.2	21.5
11 7	3 3.43	+ 4 21.1	1.155	2.133	5.7	18.8	11 7	3 3.83	+17 39.3	1.623	2.612	1.4	21.2
11 17	2 54.18	+ 3 52.1	1.167	2.131	8.0	18.9	11 17	2 53.36	+16 49.6	1.642	2.624	3.4	21.4
11 27	2 46.08	+ 3 44.3	1.203	2.129	12.2	19.2	11 27	2 44.01	+16 2.6	1.691	2.634	7.9	21.7
12 7	2 40.28	+ 3 59.5	1.260	2.128	16.4	19.4	12 7	2 36.73	+15 23.8	1.766	2.644	11.8	22.0
12 17	2 37.46	+ 4 36.2	1.336	2.128	20.0	19.7	12 17	2 32.07	+14 56.8	1.863	2.654	15.1	22.2
<b>277737</b>	2006 DW <sub>93</sub>	11	9.9 187°69	3°2/12.3	17		<b>181500</b>	2006 UJ <sub>14</sub>	11	9.9 299°87	1°1/ 9.1	18	
10 8	3 25.71	+28 7.8	2.535	3.344	11.6	21.4	10 8	3 24.36	+16 0.3	1.915	2.771	12.8	20.8
10 18	3 19.80	+28 22.5	2.454	3.344	9.0	21.3	10 18	3 19.06	+15 28.2	1.843	2.769	9.3	20.6
10 28	3 12.13	+28 25.3	2.398	3.344	6.1	21.1	10 28	3 11.79	+14 49.2	1.796	2.767	5.4	20.3
11 7	3 3.36	+28 16.1	2.369	3.343	3.7	20.9	11 7	3 3.30	+14 6.7	1.776	2.765	1.4	20.0
11 17	2 54.33	+27 55.6	2.369	3.342	3.6	20.9	11 17	2 54.58	+13 24.7	1.784	2.763	3.6	20.2
11 27	2 45.94	+27 27.1	2.400	3.341	5.9	21.1	11 27	2 46.67	+12 48.2	1.821	2.761	7.7	20.5
12 7	2 38.99	+26 54.8	2.458	3.340	8.8	21.3	12 7	2 40.44	+12 21.4	1.884	2.759	11.4	20.7
12 17	2 34.03	+26 23.1	2.541	3.339	11.3	21.4	12 17	2 36.45	+12 6.9	1.970	2.757	14.5	20.9
<b>448894</b>	2011 UY <sub>293</sub>	11	9.9 336°83	1°4/ 8.9	18		<b>159194</b>	2005 UR <sub>212</sub>	11	9.9 274°14	0°9/ 9.3	18	
10 8	3 23.90	+15 44.0	1.77										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>495189</b>	2012 VR <sub>113</sub>		11 9.9 43°82	0.4/ 4.2 16			<b>81864</b>	2000 KX <sub>74</sub>		11 9.9 165°62	1°0/ 9.2 18		
10 8	3 3.18	- 2 55.5	41.752	42.591	0.7	23.0	10 8	3 25.36	+15 40.6	2.174	3.024	11.8	20.0
10 18	3 2.51	- 3 0.3	41.696	42.595	0.6	23.0	10 18	3 19.57	+15 11.5	2.104	3.027	8.6	19.8
10 28	3 1.78	- 3 4.5	41.668	42.599	0.5	22.9	10 28	3 12.01	+14 36.6	2.059	3.029	4.9	19.6
11 7	3 1.01	- 3 8.0	41.668	42.603	0.4	22.9	11 7	3 3.41	+13 58.9	2.042	3.032	1.3	19.3
11 17	3 0.24	- 3 10.7	41.697	42.607	0.5	23.0	11 17	2 54.62	+13 21.8	2.055	3.034	3.3	19.5
11 27	2 59.49	- 3 12.4	41.754	42.611	0.7	23.0	11 27	2 46.59	+12 49.5	2.098	3.035	7.0	19.7
12 7	2 58.78	- 3 13.2	41.838	42.614	0.8	23.0	12 7	2 40.08	+12 25.5	2.167	3.037	10.4	20.0
12 17	2 58.16	- 3 12.8	41.946	42.618	1.0	23.0	12 17	2 35.61	+12 12.2	2.260	3.038	13.2	20.2
<b>418468</b>	2008 RT <sub>56</sub>		11 9.9 49°13	2.4/ 7.9 18			<b>25956</b>	2001 FE <sub>16</sub>		11 9.9 286°82	6°8/ 3.2 18 R		
10 8	3 21.67	+12 15.7	2.164	3.024	11.4	21.6	10 8	3 21.19	+ 0 11.2	2.167	3.026	11.5	18.4
10 18	3 16.82	+11 22.0	2.102	3.030	8.2	21.4	10 18	3 16.59	- 1 37.3	2.096	3.010	9.1	18.2
10 28	3 10.36	+10 24.8	2.066	3.037	4.9	21.2	10 28	3 10.33	- 3 22.6	2.051	2.994	7.2	18.1
11 7	3 2.98	+ 9 28.4	2.058	3.043	2.5	21.1	11 7	3 3.04	- 4 57.2	2.034	2.978	7.0	18.0
11 17	2 55.48	+ 8 37.4	2.079	3.050	4.3	21.2	11 17	2 55.50	- 6 14.3	2.045	2.962	8.6	18.1
11 27	2 48.73	+ 7 56.2	2.129	3.057	7.5	21.4	11 27	2 48.56	- 7 8.7	2.082	2.946	11.0	18.2
12 7	2 43.39	+ 7 27.8	2.205	3.064	10.6	21.6	12 7	2 42.97	- 7 38.6	2.143	2.930	13.6	18.4
12 17	2 39.94	+ 7 13.7	2.304	3.072	13.3	21.8	12 17	2 39.25	- 7 44.5	2.223	2.914	15.8	18.5
<b>144185</b>	2004 BC <sub>117</sub>		11 9.9 280°95	5°3/12.9 18			<b>511399</b>	2014 GS <sub>56</sub>		11 9.9 126°54	6°3/ 5.0 18		
10 8	3 29.52	+31 3.7	1.888	2.696	14.9	20.4	10 8	3 24.56	+ 0 55.7	2.072	2.927	12.0	21.8
10 18	3 23.29	+31 42.6	1.808	2.693	11.9	20.2	10 18	3 18.89	- 0 22.0	2.023	2.938	9.3	21.7
10 28	3 14.48	+32 5.1	1.751	2.689	8.7	20.0	10 28	3 11.55	- 1 33.9	2.000	2.948	7.0	21.6
11 7	3 3.98	+32 8.9	1.720	2.686	5.9	19.8	11 7	3 3.30	- 2 33.9	2.005	2.959	6.3	21.6
11 17	2 53.00	+31 53.6	1.716	2.682	5.6	19.8	11 17	2 54.98	- 3 16.9	2.037	2.969	7.7	21.7
11 27	2 42.90	+31 22.8	1.740	2.679	8.1	19.9	11 27	2 47.48	- 3 39.7	2.097	2.978	10.2	21.8
12 7	2 34.86	+30 43.3	1.790	2.675	11.3	20.1	12 7	2 41.51	- 3 41.8	2.180	2.987	12.7	22.0
12 17	2 29.62	+30 2.0	1.863	2.672	14.4	20.3	12 17	2 37.52	- 3 24.5	2.285	2.996	14.9	22.2
<b>314381</b>	2005 UA <sub>91</sub>		11 9.9 223°33	2°8/11.8 18			<b>523424</b>	2017 EE <sub>13</sub>		11 9.9 251°50	4°5/ 6.4 18		
10 8	3 27.44	+25 52.0	2.330	3.148	12.2	21.0	10 8	3 22.37	+ 4 45.3	2.252	3.111	11.1	21.2
10 18	3 21.24	+26 10.7	2.245	3.143	9.3	20.8	10 18	3 17.31	+ 3 53.2	2.187	3.109	8.3	21.0
10 28	3 13.08	+26 18.6	2.185	3.137	6.2	20.6	10 28	3 10.68	+ 3 3.4	2.148	3.108	5.7	20.9
11 7	3 3.65	+26 14.9	2.152	3.132	3.3	20.4	11 7	3 3.12	+ 2 20.4	2.136	3.106	4.5	20.8
11 17	2 53.88	+26 0.8	2.149	3.126	3.4	20.4	11 17	2 55.39	+ 1 48.5	2.153	3.104	6.0	20.9
11 27	2 44.77	+25 39.0	2.176	3.120	6.3	20.5	11 27	2 48.32	+ 1 31.0	2.198	3.103	8.7	21.1
12 7	2 37.21	+25 14.1	2.231	3.113	9.5	20.7	12 7	2 42.60	+ 1 29.2	2.269	3.101	11.4	21.2
12 17	2 31.81	+24 50.5	2.310	3.106	12.4	20.9	12 17	2 38.71	+ 1 43.1	2.361	3.100	13.8	21.4
<b>268341</b>	2005 SR <sub>162</sub>		11 9.9 37°38	1°3/10.4 18			<b>399749</b>	2005 GG <sub>132</sub>		11 9.9 201°34	1°2/ 9.2 18		
10 8	3 30.32	+19 4.4	1.205	2.072	18.1	19.5	10 8	3 26.11	+15 15.1	1.989	2.841	12.6	21.9
10 18	3 24.29	+19 30.5	1.156	2.084	13.4	19.3	10 18	3 20.31	+14 51.3	1.916	2.840	9.2	21.7
10 28	3 15.14	+19 46.4	1.127	2.097	8.0	19.0	10 28	3 12.54	+14 21.8	1.867	2.838	5.3	21.5
11 7	3 4.13	+19 52.3	1.122	2.110	2.4	18.7	11 7	3 3.56	+13 49.4	1.846	2.836	1.5	21.2
11 17	2 52.88	+19 50.4	1.142	2.125	4.1	18.9	11 17	2 54.33	+13 17.8	1.855	2.833	3.6	21.3
11 27	2 43.12	+19 45.5	1.188	2.139	9.4	19.2	11 27	2 45.89	+12 51.2	1.892	2.831	7.5	21.6
12 7	2 36.14	+19 43.2	1.257	2.155	14.2	19.6	12 7	2 39.11	+12 33.2	1.956	2.828	11.2	21.8
12 17	2 32.58	+19 48.0	1.347	2.170	18.1	19.9	12 17	2 34.55	+12 26.3	2.042	2.825	14.3	22.0
<b>362795</b>	2011 WG <sub>147</sub>		11 9.9 2°45	9°4/ 5.2 18			<b>77013</b>	2001 CJ <sub>12</sub>		11 9.9 253°87	1°0/10.4 18		
10 8	3 25.13	- 5 52.7	1.577	2.434	15.1	19.7	10 8	3 29.30	+20 28.9	1.517	2.370	15.8	20.3
10 18	3 19.81	- 6 39.0	1.527	2.433	12.3	19.5	10 18	3 23.37	+20 22.4	1.440	2.361	11.8	20.1
10 28	3 12.28	- 7 10.4	1.499	2.433	10.1	19.4	10 28	3 14.65	+20 4.1	1.384	2.353	7.1	19.8
11 7	3 3.46	- 7 20.0	1.494	2.434	9.5	19.3	11 7	3 4.09	+19 35.1	1.355	2.344	2.1	19.5
11 17	2 54.46	- 7 3.5	1.514	2.435	10.8	19.4	11 17	2 53.02	+18 58.8	1.352	2.334	3.7	19.5
11 27	2 46.47	- 6 19.9	1.559	2.437	13.3	19.6	11 27	2 42.97	+18 21.2	1.377	2.325	8.8	19.8
12 7	2 40.42	- 5 11.8	1.625	2.440	16.0	19.8	12 7	2 35.17	+17 48.8	1.427	2.315	13.4	20.1
12 17	2 36.87	- 3 43.8	1.711	2.443	18.5	20.0	12 17	2 30.42	+17 26.8	1.498	2.306	17.4	20.3
<b>184514</b>	2005 QS <sub>4</sub>		11 9.9 51°29	4°1/ 7.2 18			<b>365333</b>	2009 SY <sub>188</sub>		11 9.9 54°89	3°1/ 7.3 18		
10 8	3 23.73	+ 8 44.6	1.741	2.609	13.3	19.7	10 8	3 22.02	+11 53.1	2.009	2.872	12.0	20.1
10 18	3 18.55	+ 7 45.9	1.692	2.622	9.7	19.5	10 18	3 17.16	+10 34.4	1.951	2.880	8.7	19.9
10 28	3 11.43	+ 6 47.1	1.667	2.635	6.1	19.3	10 28	3 10.60	+ 9 11.6	1.919	2.889	5.2	19.8
11 7	3 3.25	+ 5 53.7	1.669	2.649	4.1	19.2	11 7	3 3.09	+ 7 50.6	1.915	2.898	3.1	19.6
11 17	2 55.01	+ 5 11.2	1.699	2.663	5.9	19.3	11 17	2 55.51	+ 6 37.4	1.940	2.907	5.0	19.8
11 27	2 47.73	+ 4 43.9	1.756	2.677	9.4	19.6	11 27	2 48.73	+ 5 37.5	1.993	2.916	8.3	20.0
12 7	2 42.22	+ 4 33.9	1.837	2.692	12.7	19.8	12 7	2 43.48	+ 4 54.4	2.073	2.925	11.5	20.2
12 17	2 38.95	+ 4 41.2	1.940	2.706	15.5	20.1	12 17	2 40.22	+ 4 29.4	2.174	2.934	14.2	20.4
<b>255429</b>	2005 XH <sub>76</sub>		11 9.9 134°62	1°0/10.4 18			<b>442311</b>	2011 SK <sub>79</sub>		11 9.9 79°63	5°4/ 6.1 18		
10 8	3 32.14	+20 52.0	1.378	2.231	17.1	20.0	10 8	3 25.29	+ 6 15.5	1.733	2.599	13.5	21.1
10 18	3 25.40	+20 42.4	1.317	2.238	12.7	19.8	10 18	3 19.58	+ 4 47.8	1.693	2.619	10.0	21.0
10 28	3 15.72	+20 19.5	1.278	2.246	7.6	19.5	10 28	3 11.98	+ 3 22.3	1.677	2.640	6.7	20.8
11 7	3 4.27	+19 44.9	1.264	2.253	2.2	19.2	11 7	3 3.40	+ 2 6.3	1.689	2.660	5.4	20.8
11 17	2 52.55	+19 3.1	1.277	2.259	3.8	19.4	11 17	2 54.85	+ 1 6.2	1.728	2.680	7.2	21.0
11 27	2 42.19	+18 20.7	1.318	2.266	9.1	19.7	11 27	2 47.34	+ 0 26.4	1.795	2.700	10.3	21.2
12 7	2 34.43	+17 44.9	1.382	2.271	13.8	20.0	12 7	2 41.65	+ 0 8.5	1.885	2.719	13.3	21.4
12 17	2 29.91	+17 20.9	1.468	2.277	17.7	20.2	12 17	2 38.20	+ 0 11.5	1.996	2.739	15.9	21.7
<b>125134</b>	2001 UP <sub>60</sub>		11 9.9 278°26	1°2/ 9.1 18			<b>452809</b>	2006 KC <sub>119</sub>		11 9.9 215°15	19°5/ 2.2 17		
10 8	3 25.70	+											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>277355</b>	2005 <i>TB</i> <sub>112</sub>	11	9.9 270°03	0°9/ 9.3 18			<b>442306</b>	2011 <i>SN</i> <sub>62</sub>	11	9.9 91°38	3°4/12.6 18		
10 8	3 26.14	+17 57.2	1.552	2.413	15.0	21.0	10 8	3 27.76	+29 48.3	1.823	2.641	15.0	20.9
10 18	3 20.84	+17 10.6	1.479	2.407	11.0	20.7	10 18	3 21.64	+29 17.4	1.761	2.657	11.6	20.8
10 28	3 13.06	+16 12.5	1.429	2.401	6.4	20.5	10 28	3 13.30	+28 27.1	1.722	2.672	7.8	20.6
11 7	3 3.71	+15 7.1	1.404	2.394	1.5	20.1	11 7	3 3.74	+27 19.1	1.709	2.687	4.2	20.4
11 17	2 54.02	+14 0.5	1.408	2.388	4.1	20.3	11 17	2 54.14	+25 57.8	1.724	2.702	3.9	20.4
11 27	2 45.32	+13 0.2	1.438	2.381	9.0	20.6	11 27	2 45.68	+24 30.7	1.769	2.717	7.2	20.6
12 7	2 38.72	+12 12.7	1.493	2.375	13.4	20.8	12 7	2 39.29	+23 6.1	1.841	2.731	10.8	20.9
12 17	2 34.86	+11 41.9	1.570	2.368	17.2	21.1	12 17	2 35.45	+21 50.9	1.936	2.746	13.9	21.1
<b>444922</b>	2008 <i>AA</i> <sub>98</sub>	11	9.9 269°43	1°5/10.8 18			<b>457383</b>	2008 <i>TC</i> <sub>44</sub>	11	9.9 35°03	1°1/10.6 16		
10 8	3 26.28	+22 8.1	1.932	2.773	13.4	21.5	10 8	3 24.56	+20 47.2	2.012	2.857	12.8	21.3
10 18	3 20.62	+22 5.5	1.855	2.770	10.0	21.3	10 18	3 19.16	+20 50.1	1.950	2.867	9.4	21.1
10 28	3 12.80	+21 52.1	1.802	2.766	6.2	21.1	10 28	3 11.85	+20 44.0	1.912	2.878	5.7	20.9
11 7	3 3.64	+21 28.8	1.776	2.763	2.2	20.8	11 7	3 3.43	+20 30.3	1.901	2.890	1.9	20.6
11 17	2 54.16	+20 58.1	1.778	2.760	3.1	20.9	11 17	2 54.83	+20 11.3	1.919	2.901	2.8	20.7
11 27	2 45.50	+20 24.6	1.809	2.757	7.1	21.1	11 27	2 47.08	+19 50.6	1.966	2.913	6.6	21.0
12 7	2 38.61	+19 53.4	1.867	2.753	10.9	21.3	12 7	2 40.98	+19 32.4	2.039	2.926	10.1	21.2
12 17	2 34.11	+19 28.7	1.948	2.750	14.1	21.5	12 17	2 37.08	+19 19.9	2.136	2.938	13.1	21.5
<b>384373</b>	2009 <i>UL</i> <sub>150</sub>	11	9.9 313°98	0°4/ 9.7 18			<b>68874</b>	2002 <i>JZ</i> <sub>37</sub>	11	9.9 189°12	1°1/10.9 18		
10 8	3 25.93	+18 14.4	1.375	2.243	16.2	21.1	10 8	3 23.69	+22 59.8	2.521	3.351	11.0	20.0
10 18	3 21.05	+17 50.1	1.301	2.232	12.0	20.8	10 18	3 18.26	+22 31.5	2.441	3.350	8.2	19.8
10 28	3 13.36	+17 14.3	1.249	2.221	7.0	20.5	10 28	3 11.24	+21 53.0	2.386	3.349	5.0	19.6
11 7	3 3.81	+16 30.1	1.221	2.211	1.6	20.2	11 7	3 3.29	+21 5.9	2.360	3.348	1.7	19.4
11 17	2 53.76	+15 42.7	1.219	2.200	4.1	20.3	11 17	2 55.16	+20 13.5	2.365	3.346	2.4	19.5
11 27	2 44.75	+14 59.2	1.243	2.191	9.5	20.6	11 27	2 47.68	+19 19.8	2.399	3.344	5.7	19.7
12 7	2 38.04	+14 26.3	1.291	2.182	14.4	20.9	12 7	2 41.55	+18 29.5	2.462	3.342	8.8	19.9
12 17	2 34.41	+14 8.4	1.358	2.173	18.5	21.1	12 17	2 37.25	+17 46.4	2.550	3.340	11.5	20.1
<b>85274</b>	1994 <i>GH</i>	11	9.9 73°28	4°4/ 7.8 17			<b>264781</b>	2002 <i>JQ</i> <sub>85</sub>	11	9.9 64°17	1°3/10.5 17		
10 8	3 32.15	+10 48.9	1.162	2.036	18.1	19.8	10 8	3 33.08	+20 12.0	1.233	2.093	18.2	19.7
10 18	3 25.08	+9 39.2	1.132	2.066	13.0	19.6	10 18	3 26.08	+20 23.2	1.191	2.116	13.4	19.5
10 28	3 15.27	+8 27.8	1.125	2.096	7.8	19.4	10 28	3 16.07	+20 22.1	1.171	2.139	8.0	19.3
11 7	3 4.14	+7 23.1	1.142	2.125	4.5	19.3	11 7	3 4.39	+20 9.5	1.174	2.163	2.4	19.0
11 17	2 53.27	+6 32.7	1.185	2.154	6.9	19.6	11 17	2 52.70	+19 49.2	1.204	2.186	4.0	19.2
11 27	2 44.16	+6 2.3	1.253	2.183	11.4	19.9	11 27	2 42.68	+19 27.2	1.260	2.210	9.2	19.5
12 7	2 37.78	+5 53.9	1.344	2.211	15.6	20.2	12 7	2 35.49	+19 9.6	1.340	2.233	13.8	19.9
12 17	2 34.56	+6 6.4	1.454	2.239	18.9	20.5	12 17	2 31.67	+19 1.2	1.440	2.256	17.5	20.2
<b>519444</b>	2011 <i>XR</i> <sub>3</sub>	11	9.9 308°48	7°3/ 4.9 18			<b>119157</b>	2001 <i>QH</i> <sub>6</sub>	11	9.9 358°32	0°5/10.1 18		
10 8	3 23.45	- 0 4.5	1.764	2.628	13.4	21.0	10 8	3 23.90	+18 59.8	1.093	1.975	18.4	18.8
10 18	3 18.54	- 1 13.8	1.699	2.617	10.5	20.8	10 18	3 20.01	+18 56.7	1.034	1.971	13.6	18.5
10 28	3 11.59	- 2 16.6	1.657	2.606	8.1	20.6	10 28	3 12.92	+18 41.1	0.994	1.968	8.1	18.2
11 7	3 3.37	- 3 5.9	1.641	2.596	7.4	20.6	11 7	3 3.75	+18 15.5	0.976	1.966	2.0	17.9
11 17	2 54.87	- 3 35.6	1.652	2.586	9.0	20.7	11 17	2 54.11	+17 44.6	0.983	1.966	4.3	18.0
11 27	2 47.16	- 3 41.8	1.688	2.576	11.8	20.8	11 27	2 45.80	+17 15.7	1.013	1.967	10.2	18.4
12 7	2 41.14	- 3 24.2	1.746	2.566	14.8	21.0	12 7	2 40.22	+16 55.5	1.065	1.970	15.4	18.7
12 17	2 37.41	- 2 44.6	1.824	2.557	17.5	21.2	12 17	2 38.10	+16 48.7	1.135	1.974	19.8	18.9
<b>329282</b>	1999 <i>WZ</i> <sub>5</sub>	11	9.9 358°26	34°2/27.0 18			<b>321048</b>	2008 <i>RS</i> <sub>16</sub>	11	9.9 138°22	1°1/10.9 18		
10 8	3 28.03	-46 32.8	0.812	1.552	34.8	18.0	10 8	3 23.91	+22 55.1	2.850	3.674	10.0	21.7
10 18	3 23.78	-47 6.6	0.794	1.539	34.8	18.0	10 18	3 18.21	+22 39.1	2.779	3.685	7.4	21.6
10 28	3 15.08	-46 28.2	0.780	1.530	34.7	17.9	10 28	3 11.13	+22 14.7	2.734	3.695	4.6	21.4
11 7	3 4.12	-44 25.0	0.772	1.525	34.6	17.9	11 7	3 3.26	+21 43.0	2.719	3.705	1.7	21.2
11 17	2 53.45	-40 51.7	0.771	1.524	34.3	17.9	11 17	2 55.29	+21 6.4	2.734	3.715	2.2	21.3
11 27	2 45.33	-35 53.9	0.779	1.528	34.2	17.9	11 27	2 47.94	+20 28.1	2.780	3.724	5.1	21.5
12 7	2 41.03	-29 49.2	0.799	1.536	34.3	18.0	12 7	2 41.81	+19 51.6	2.855	3.733	7.8	21.7
12 17	2 40.88	-23 2.0	0.834	1.548	34.7	18.1	12 17	2 37.31	+19 20.2	2.955	3.742	10.2	21.9
<b>176296</b>	2001 <i>SC</i> <sub>124</sub>	11	9.9 104°65	0°7/10.4 18			<b>23302</b>	2001 <i>AB</i> <sub>17</sub>	11	9.9 208°73	6°5/14.7 18		
10 8	3 25.35	+21 26.2	1.961	2.804	13.1	20.2	10 8	3 30.46	+37 0.8	2.113	2.887	14.7	18.3
10 18	3 19.77	+20 57.9	1.893	2.810	9.7	20.0	10 18	3 23.89	+37 26.0	2.028	2.883	12.2	18.2
10 28	3 12.21	+20 18.6	1.850	2.816	5.8	19.7	10 28	3 14.83	+37 31.2	1.965	2.878	9.4	18.0
11 7	3 3.50	+19 30.5	1.834	2.823	1.7	19.5	11 7	3 4.17	+37 13.7	1.927	2.873	7.2	17.8
11 17	2 54.63	+18 37.7	1.847	2.829	2.9	19.6	11 17	2 53.09	+36 33.5	1.916	2.868	6.6	17.8
11 27	2 46.64	+17 45.6	1.889	2.835	7.0	19.9	11 27	2 42.93	+35 34.7	1.934	2.862	8.1	17.9
12 7	2 40.39	+16 59.4	1.957	2.840	10.6	20.1	12 7	2 34.79	+34 24.6	1.978	2.856	10.8	18.0
12 17	2 36.39	+16 23.4	2.049	2.846	13.7	20.3	12 17	2 29.38	+33 11.5	2.046	2.850	13.5	18.2
<b>22432</b>	1996 <i>EJ</i> <sub>14</sub>	11	9.9 54°14	7°2/14.9 18			<b>388559</b>	2007 <i>PB</i> <sub>14</sub>	11	9.9 104°36	8°2/15.8 18		
10 8	3 29.98	+37 46.8	2.094	2.865	14.9	18.9	10 8	3 32.97	+40 6.2	1.865	2.628	16.7	20.8
10 18	3 23.54	+38 38.0	2.024	2.873	12.4	18.8	10 18	3 25.94	+40 46.1	1.799	2.641	14.1	20.7
10 28	3 14.61	+39 9.7	1.975	2.880	9.8	18.6	10 28	3 16.06	+41 1.7	1.754	2.653	11.3	20.5
11 7	3 4.09	+39 18.6	1.951	2.888	7.8	18.5	11 7	3 4.44	+40 49.4	1.733	2.665	9.0	20.4
11 17	2 53.18	+39 4.0	1.954	2.896	7.2	18.5	11 17	2 52.52	+40 9.0	1.737	2.677	8.2	20.4
11 27	2 43.23	+38 29.3	1.984	2.904	8.5	18.6	11 27	2 41.88	+39 5.6	1.768	2.688	9.4	20.5
12 7	2 35.34	+37 41.2	2.040	2.913	10.8	18.7	12 7	2 33.72	+37 48.2	1.825	2.699	11.7	20.7
12 17	2 30.19	+36 47.1	2.119	2.921	13.2	18.9	12 17	2 28.72	+36 26.7	1.905	2.710	14.3	20.9
<b>246324</b>	2007 <i>TE</i> <sub>200</sub>	11	9.9 74°31	0°2/10.0 18			<b>517939</b>	2015 <i>TG</i> <sub>260</sub>	11	9.9 62°58			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>224057</b>	2005 <i>ML</i> <sub>53</sub>	11 9.9 43°75'	1°10.1	18			<b>485353</b>	2011 <i>CN</i> <sub>45</sub>	11 9.9 309°94'	7°6'	4.1	18	
10 8	3 44.78	+13 1.9	1.129	1.984	19.9	18.7	10 8	3 22.69	- 5 4.0	2.187	3.034	11.8	20.8
10 18	3 35.04	+15 0.7	1.084	2.007	14.6	18.5	10 18	3 17.63	- 6 3.1	2.128	3.028	9.7	20.7
10 28	3 21.50	+16 59.6	1.062	2.031	8.6	18.3	10 28	3 10.93	- 6 52.4	2.093	3.023	8.0	20.6
11 7	3 5.69	+18 52.1	1.067	2.056	2.3	18.0	11 7	3 3.27	- 7 26.3	2.085	3.017	7.7	20.5
11 17	2 49.66	+20 31.9	1.100	2.081	4.5	18.2	11 17	2 55.43	- 7 40.5	2.103	3.012	8.9	20.6
11 27	2 35.60	+21 57.1	1.161	2.107	10.3	18.6	11 27	2 48.26	- 7 32.9	2.147	3.007	10.9	20.7
12 7	2 25.05	+23 10.3	1.247	2.134	15.1	19.0	12 7	2 42.48	- 7 4.0	2.214	3.002	13.2	20.9
12 17	2 18.70	+24 15.8	1.354	2.160	19.0	19.3	12 17	2 38.58	- 6 15.9	2.301	2.997	15.2	21.0
<b>145510</b>	2006 <i>DZ</i> <sub>82</sub>	11 9.9 329°99'	0°6'	9.5	18		<b>1863</b>	Antinous	11 9.9 116°27'	7°0'	15.9	17	
10 8	3 22.85	+17 21.5	2.059	2.913	12.2	20.4	10 8	3 42.51	+41 42.3	2.475	3.192	14.2	20.8
10 18	3 17.94	+16 53.4	1.984	2.908	8.9	20.2	10 18	3 32.09	+42 15.4	2.417	3.227	11.9	20.7
10 28	3 11.19	+16 17.9	1.933	2.904	5.1	20.0	10 28	3 19.28	+42 26.4	2.382	3.261	9.5	20.6
11 7	3 3.31	+15 37.7	1.910	2.899	1.2	19.7	11 7	3 5.16	+42 12.3	2.374	3.293	7.6	20.6
11 17	2 55.18	+14 56.6	1.915	2.895	3.1	19.8	11 17	2 51.05	+41 33.5	2.396	3.323	7.0	20.6
11 27	2 47.78	+14 19.1	1.949	2.891	7.1	20.1	11 27	2 38.29	+40 34.6	2.448	3.352	7.9	20.7
12 7	2 41.91	+13 49.3	2.009	2.888	10.6	20.3	12 7	2 27.87	+39 23.2	2.528	3.380	9.7	20.8
12 17	2 38.11	+13 30.3	2.093	2.884	13.7	20.5	12 17	2 20.33	+38 7.6	2.634	3.406	11.7	21.0
<b>250269</b>	2003 <i>FG</i> <sub>36</sub>	11 9.9 320°75'	0°6'	9.5	18		<b>260716</b>	2005 <i>JD</i> <sub>166</sub>	11 9.9 174°95'	1°7'	11.3	18	
10 8	3 24.23	+17 16.1	1.947	2.801	12.8	20.5	10 8	3 25.89	+24 45.5	2.064	2.895	13.0	20.7
10 18	3 19.02	+16 48.3	1.874	2.798	9.3	20.3	10 18	3 20.18	+24 15.2	1.988	2.896	9.8	20.5
10 28	3 11.85	+16 12.8	1.825	2.796	5.4	20.1	10 28	3 12.49	+23 31.2	1.937	2.897	6.1	20.3
11 7	3 3.47	+15 32.5	1.804	2.793	1.2	19.8	11 7	3 3.63	+22 35.2	1.912	2.898	2.5	20.1
11 17	2 54.84	+14 51.3	1.811	2.791	3.3	19.9	11 17	2 54.58	+21 31.1	1.917	2.899	2.9	20.1
11 27	2 47.01	+14 14.0	1.847	2.789	7.4	20.2	11 27	2 46.37	+20 24.5	1.952	2.899	6.7	20.4
12 7	2 40.82	+13 45.0	1.909	2.787	11.1	20.4	12 7	2 39.87	+19 21.8	2.014	2.899	10.3	20.6
12 17	2 36.86	+13 27.2	1.994	2.785	14.3	20.6	12 17	2 35.61	+18 28.0	2.100	2.898	13.4	20.8
<b>435554</b>	2008 <i>QO</i> <sub>36</sub>	11 9.9 131°38'	0°3'	10.1	15		<b>515850</b>	2015 <i>OE</i> <sub>37</sub>	11 9.9 306°09'	11°5'	31.4	18	
10 8	3 28.95	+20 1.0	1.856	2.699	13.8	22.7	10 8	3 23.38	-11 3.6	1.762	2.603	14.5	20.7
10 18	3 22.41	+19 34.7	1.794	2.711	10.1	22.5	10 18	3 18.45	-13 1.0	1.718	2.599	12.6	20.6
10 28	3 13.76	+18 58.0	1.756	2.723	5.9	22.3	10 28	3 11.52	-14 41.6	1.697	2.595	11.6	20.5
11 7	3 3.89	+18 13.6	1.745	2.734	1.5	22.0	11 7	3 3.41	-15 56.3	1.700	2.592	11.8	20.5
11 17	2 53.91	+17 25.6	1.764	2.745	3.1	22.1	11 17	2 55.12	-16 38.6	1.726	2.588	13.2	20.6
11 27	2 44.94	+16 39.3	1.812	2.756	7.4	22.4	11 27	2 47.71	-16 45.9	1.775	2.585	15.1	20.7
12 7	2 37.88	+16 0.1	1.886	2.765	11.2	22.7	12 7	2 42.02	-16 20.2	1.843	2.581	17.2	20.9
12 17	2 33.27	+15 31.6	1.984	2.774	14.4	22.9	12 17	2 38.59	-15 26.1	1.927	2.578	19.0	21.0
<b>340170</b>	2005 <i>YT</i> <sub>151</sub>	11 9.9 297°29'	0°5'	10.2	18		<b>257887</b>	2000 <i>SU</i> <sub>282</sub>	11 9.9 31°58'	6°6'	14.7	18	
10 8	3 27.16	+19 11.5	1.523	2.381	15.4	20.9	10 8	3 27.22	+35 55.8	1.812	2.607	16.0	20.1
10 18	3 21.89	+19 5.9	1.440	2.365	11.5	20.7	10 18	3 21.67	+36 17.8	1.744	2.613	13.1	20.0
10 28	3 13.88	+18 50.0	1.378	2.348	6.9	20.4	10 28	3 13.57	+36 17.9	1.696	2.620	10.0	19.8
11 7	3 4.00	+18 25.1	1.343	2.332	1.8	20.0	11 7	3 3.91	+35 53.9	1.673	2.627	7.4	19.7
11 17	2 53.51	+17 54.6	1.334	2.316	3.7	20.1	11 17	2 53.96	+35 7.0	1.676	2.634	6.7	19.6
11 27	2 43.90	+17 24.0	1.352	2.300	8.9	20.4	11 27	2 45.12	+34 2.7	1.706	2.642	8.4	19.8
12 7	2 36.44	+16 59.2	1.394	2.284	13.6	20.6	12 7	2 38.46	+32 49.2	1.761	2.650	11.3	19.9
12 17	2 31.94	+16 45.1	1.458	2.269	17.6	20.8	12 17	2 34.64	+31 35.3	1.840	2.658	14.2	20.2
<b>419345</b>	2009 <i>WJ</i> <sub>185</sub>	11 9.9 93°71'	0°1'	9.9	18		<b>138538</b>	2000 <i>PL</i> <sub>3</sub>	11 9.9 200°19'	13°4'	17.9	17	
10 8	3 23.66	+19 20.7	2.309	3.152	11.4	21.3	10 8	3 39.27	+46 28.1	1.363	2.113	22.4	19.9
10 18	3 18.25	+18 49.8	2.245	3.164	8.3	21.1	10 18	3 32.27	+47 42.5	1.292	2.112	19.8	19.7
10 28	3 11.23	+18 11.0	2.207	3.175	4.8	20.9	10 28	3 20.60	+48 22.8	1.237	2.110	16.9	19.5
11 7	3 3.31	+17 26.7	2.197	3.187	1.1	20.7	11 7	3 5.64	+48 18.6	1.201	2.107	14.5	19.3
11 17	2 55.30	+16 40.5	2.218	3.199	2.6	20.8	11 17	2 49.78	+47 25.1	1.187	2.104	13.4	19.3
11 27	2 48.04	+15 56.7	2.267	3.210	6.2	21.1	11 27	2 35.82	+45 47.6	1.196	2.101	14.2	19.3
12 7	2 42.21	+15 19.1	2.345	3.222	9.4	21.3	12 7	2 25.85	+43 41.4	1.226	2.097	16.5	19.4
12 17	2 38.29	+14 50.8	2.446	3.233	12.1	21.5	12 17	2 20.80	+41 24.3	1.277	2.093	19.4	19.6
<b>520676</b>	2014 <i>QX</i> <sub>457</sub>	11 9.9 88°89'	0°3'	9.7	18		<b>435506</b>	2008 <i>HK</i> <sub>11</sub>	11 9.9 334°13'	6°4'	5.8	18	
10 8	3 23.99	+17 53.1	2.224	3.071	11.6	21.8	10 8	3 24.38	+ 7 11.4	1.353	2.232	15.7	20.9
10 18	3 18.56	+17 28.7	2.159	3.080	8.5	21.6	10 18	3 19.67	+ 5 30.8	1.294	2.228	11.7	20.6
10 28	3 11.45	+16 57.4	2.119	3.088	4.9	21.4	10 28	3 12.42	+ 3 48.5	1.259	2.225	7.9	20.4
11 7	3 3.38	+16 21.6	2.107	3.097	1.1	21.1	11 7	3 3.65	+ 2 14.5	1.249	2.222	6.4	20.3
11 17	2 55.17	+15 44.7	2.125	3.106	2.8	21.3	11 17	2 54.61	+ 0 58.7	1.264	2.219	8.7	20.4
11 27	2 47.72	+15 10.6	2.173	3.115	6.5	21.5	11 27	2 46.67	+ 0 8.5	1.304	2.217	12.7	20.7
12 7	2 41.75	+14 43.0	2.247	3.124	9.7	21.8	12 7	2 40.91	- 0 13.1	1.366	2.215	16.6	20.9
12 17	2 37.73	+14 24.6	2.346	3.132	12.5	22.0	12 17	2 37.94	- 0 7.1	1.447	2.213	19.9	21.1
<b>405504</b>	2005 <i>AN</i> <sub>47</sub>	11 9.9 339°30'	1°2'	9.2	16		<b>358243</b>	2006 <i>SO</i> <sub>343</sub>	11 9.9 352°66'	2°5'	11.3	17	
10 8	3 20.64	+16 17.8	1.569	2.441	14.3	20.4	10 8	3 24.94	+23 49.7	1.525	2.377	15.8	20.3
10 18	3 16.92	+15 44.0	1.490	2.423	10.5	20.2	10 18	3 20.19	+23 57.3	1.454	2.372	12.0	20.0
10 28	3 10.87	+15 1.3	1.433	2.407	6.1	19.9	10 28	3 12.81	+23 50.9	1.404	2.368	7.6	19.8
11 7	3 3.30	+14 13.5	1.402	2.391	1.6	19.5	11 7	3 3.76	+23 30.6	1.380	2.365	3.4	19.5
11 17	2 55.29	+13 26.0	1.397	2.377	4.1	19.7	11 17	2 54.30	+22 59.2	1.381	2.363	3.8	19.5
11 27	2 48.10	+12 44.9	1.419	2.364	8.9	19.9	11 27	2 45.84	+22 22.2	1.410	2.361	8.2	19.8
12 7	2 42.77	+12 15.6	1.464	2.352	13.2	20.2	12 7	2 39.55	+21 46.2	1.463	2.361	12.5	20.0
12 17	2 40.01	+12 1.6	1.531	2.341	17.0	20.4	12 17	2 36.13	+21 17.1	1.537	2.361	16.3	20.3
<b>181537</b>	2006 <i>UE</i> <sub>175</sub>	11 9.9 22°45'	3°5'	7.9	18		<b>393353</b>	1995 <i>UA</i> <sub>11</sub>	11 9.9 324°6				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>293301</b>	2007 <i>DX</i> <sub>28</sub>		11 9.9 125°41'	1.3°/ 8.9	18		<b>266805</b>	2009 <i>SN</i> <sub>350</sub>		11 9.9 310°37'	0.5°/ 9.6	17	
10 8	3 24.24	+14 31.2	2.232	3.084	11.4	20.8	10 8	3 24.00	+16 38.5	2.016	2.870	12.4	20.8
10 18	3 18.75	+14 5.2	2.164	3.088	8.3	20.6	10 18	3 18.93	+16 25.7	1.933	2.857	9.1	20.5
10 28	3 11.59	+13 34.7	2.122	3.092	4.8	20.4	10 28	3 11.88	+16 6.6	1.875	2.845	5.3	20.3
11 7	3 3.43	+13 2.6	2.108	3.096	1.5	20.2	11 7	3 3.57	+15 43.3	1.843	2.833	1.2	20.0
11 17	2 55.12	+12 32.2	2.123	3.101	3.3	20.3	11 17	2 54.90	+15 18.8	1.841	2.821	3.2	20.1
11 27	2 47.52	+12 7.0	2.168	3.105	6.9	20.6	11 27	2 46.90	+14 57.0	1.867	2.810	7.3	20.3
12 7	2 41.37	+11 50.2	2.240	3.108	10.1	20.8	12 7	2 40.47	+14 41.7	1.919	2.799	11.0	20.5
12 17	2 37.16	+11 43.7	2.335	3.112	12.9	21.0	12 17	2 36.21	+14 35.7	1.994	2.788	14.2	20.7
<b>457287</b>	2008 <i>RU</i> <sub>113</sub>		11 9.9 351°01'	1.4°/ 8.9	16		<b>331677</b>	2002 <i>PS</i> <sub>199</sub>		11 9.9 262°25'	4.3°/ 6.3	17	
10 8	3 21.66	+15 24.1	1.959	2.820	12.4	21.1	10 8	3 21.94	+ 5 21.2	2.373	3.231	10.6	21.2
10 18	3 17.14	+14 44.1	1.888	2.816	9.0	20.8	10 18	3 17.05	+ 4 24.3	2.300	3.222	8.0	21.0
10 28	3 10.76	+13 57.8	1.841	2.813	5.2	20.6	10 28	3 10.62	+ 3 28.6	2.252	3.213	5.4	20.8
11 7	3 3.25	+13 8.7	1.821	2.810	1.6	20.4	11 7	3 3.25	+ 2 38.6	2.233	3.203	4.3	20.8
11 17	2 55.53	+12 21.3	1.830	2.808	3.7	20.5	11 17	2 55.68	+ 1 58.7	2.243	3.194	5.8	20.8
11 27	2 48.56	+11 40.7	1.867	2.806	7.6	20.7	11 27	2 48.69	+ 1 32.4	2.280	3.185	8.4	21.0
12 7	2 43.14	+11 10.8	1.930	2.805	11.2	21.0	12 7	2 42.96	+ 1 21.8	2.344	3.175	11.1	21.2
12 17	2 39.81	+10 54.1	2.015	2.804	14.2	21.2	12 17	2 38.98	+ 1 27.0	2.429	3.165	13.5	21.3
<b>20423</b>	1998 <i>VN</i> <sub>7</sub>		11 9.9 99°15'	1.2°/ 9.3	18		<b>30845</b>	1991 <i>PQ</i> <sub>3</sub>		11 9.9 134°94'	1.4°/ 10.9	18	
10 8	3 30.97	+13 43.0	1.985	2.831	12.9	17.5	10 8	3 26.57	+22 19.2	2.066	2.902	12.8	18.8
10 18	3 23.65	+13 44.7	1.933	2.853	9.3	17.3	10 18	3 20.68	+22 12.8	1.995	2.907	9.6	18.6
10 28	3 14.39	+13 43.1	1.906	2.876	5.4	17.1	10 28	3 12.82	+21 56.0	1.948	2.911	5.9	18.4
11 7	3 4.07	+13 40.0	1.908	2.897	1.5	16.9	11 7	3 3.77	+21 29.8	1.928	2.915	2.1	18.2
11 17	2 53.70	+13 37.7	1.940	2.918	3.4	17.1	11 17	2 54.50	+20 57.0	1.937	2.919	2.9	18.3
11 27	2 44.33	+13 38.9	2.002	2.939	7.3	17.4	11 27	2 46.05	+20 21.7	1.976	2.923	6.7	18.5
12 7	2 36.78	+13 45.9	2.090	2.959	10.7	17.6	12 7	2 39.28	+19 48.8	2.042	2.926	10.2	18.7
12 17	2 31.54	+14 0.4	2.203	2.979	13.6	17.9	12 17	2 34.75	+19 22.4	2.131	2.930	13.2	18.9
<b>484184</b>	2006 <i>UV</i> <sub>358</sub>		11 9.9 31°44'	0.8°/ 9.4	18		<b>197845</b>	Michaelvincent		11 9.9 10°09'	4.4°/ 11.8	18	
10 8	3 24.30	+17 32.9	1.728	2.587	13.9	21.1	10 8	3 27.14	+25 23.1	1.174	2.034	18.9	20.1
10 18	3 19.22	+16 55.8	1.664	2.591	10.1	20.9	10 18	3 22.42	+26 5.1	1.116	2.036	14.6	19.8
10 28	3 12.01	+16 9.8	1.624	2.596	5.8	20.7	10 28	3 14.38	+26 30.0	1.078	2.040	9.7	19.5
11 7	3 3.55	+15 18.7	1.611	2.601	1.4	20.4	11 7	3 4.19	+26 35.7	1.062	2.044	5.3	19.3
11 17	2 54.91	+14 27.3	1.625	2.606	3.6	20.6	11 17	2 53.52	+26 23.2	1.071	2.050	5.4	19.3
11 27	2 47.21	+13 41.5	1.668	2.611	8.0	20.9	11 27	2 44.24	+25 58.4	1.104	2.057	9.7	19.6
12 7	2 41.35	+13 6.1	1.736	2.617	11.9	21.1	12 7	2 37.79	+25 29.5	1.159	2.065	14.4	19.9
12 17	2 37.90	+12 44.2	1.826	2.623	15.2	21.3	12 17	2 34.95	+25 4.4	1.235	2.074	18.4	20.2
<b>271536</b>	2004 <i>HV</i> <sub>57</sub>		11 9.9 150°34'	0.6°/ 10.2	18		<b>168186</b>	2006 <i>HX</i> <sub>108</sub>		11 9.9 75°44'	4.1°/ 7.7	18	
10 8	3 30.94	+18 52.5	1.731	2.576	14.5	21.2	10 8	3 27.58	+ 7 54.8	1.685	2.548	14.0	19.8
10 18	3 24.15	+18 57.3	1.663	2.582	10.7	20.9	10 18	3 21.39	+ 7 15.0	1.640	2.567	10.2	19.6
10 28	3 14.94	+18 53.7	1.619	2.587	6.3	20.7	10 28	3 13.16	+ 6 36.4	1.620	2.587	6.4	19.4
11 7	3 4.24	+18 42.6	1.602	2.591	1.7	20.4	11 7	3 3.83	+ 6 3.9	1.626	2.606	4.1	19.3
11 17	2 53.26	+18 26.5	1.614	2.596	3.3	20.5	11 17	2 54.49	+ 5 42.0	1.660	2.625	5.9	19.5
11 27	2 43.28	+18 9.6	1.654	2.599	7.8	20.8	11 27	2 46.23	+ 5 34.0	1.722	2.644	9.4	19.7
12 7	2 35.38	+17 56.5	1.721	2.603	11.9	21.1	12 7	2 39.91	+ 5 41.4	1.808	2.663	12.8	20.0
12 17	2 30.17	+17 50.9	1.810	2.606	15.3	21.3	12 17	2 35.99	+ 6 3.6	1.915	2.682	15.6	20.2
<b>25566</b>	Panying		11 9.9 287°40'	0.1°/ 9.9	18		<b>444572</b>	2006 <i>TJ</i> <sub>67</sub>		11 9.9 13°01'	5.5°/ 13.1	17	
10 8	3 26.81	+17 37.5	1.768	2.622	13.9	19.2	10 8	3 24.63	+30 5.0	1.326	2.169	18.2	20.2
10 18	3 21.19	+17 30.2	1.691	2.615	10.2	19.0	10 18	3 20.31	+30 28.8	1.268	2.174	14.4	20.0
10 28	3 13.27	+17 15.3	1.637	2.607	6.0	18.7	10 28	3 13.01	+30 30.8	1.229	2.180	10.1	19.8
11 7	3 3.87	+16 54.5	1.610	2.600	1.4	18.4	11 7	3 3.86	+30 9.4	1.214	2.188	6.4	19.6
11 17	2 54.09	+16 31.0	1.611	2.593	3.4	18.5	11 17	2 54.38	+29 27.1	1.222	2.197	5.9	19.6
11 27	2 45.14	+16 9.1	1.641	2.586	7.9	18.8	11 27	2 46.20	+28 30.8	1.256	2.207	9.1	19.8
12 7	2 38.05	+15 53.4	1.695	2.578	12.0	19.0	12 7	2 40.59	+27 30.1	1.314	2.218	13.1	20.1
12 17	2 33.50	+15 47.1	1.773	2.571	15.5	19.2	12 17	2 38.21	+26 33.8	1.392	2.231	16.8	20.4
<b>107886</b>	2001 <i>FC</i> <sub>92</sub>		11 9.9 20°10'	5.1°/ 6.4	18		<b>7583</b>	Rosegger		11 9.9 117°62'	5.0°/ 6.1	18 R	
10 8	3 23.44	+ 3 3.5	2.085	2.944	11.8	19.3	10 8	3 23.36	+ 3 16.0	2.219	3.075	11.3	17.9
10 18	3 18.22	+ 2 19.8	2.025	2.945	9.0	19.1	10 18	3 18.06	+ 2 22.3	2.162	3.081	8.5	17.7
10 28	3 11.30	+ 1 40.5	1.990	2.947	6.3	18.9	10 28	3 11.18	+ 1 32.2	2.130	3.086	6.0	17.6
11 7	3 3.39	+ 1 10.1	1.981	2.948	5.2	18.9	11 7	3 3.40	+ 0 50.7	2.126	3.091	5.0	17.5
11 17	2 55.31	+ 0 52.7	2.001	2.950	6.6	19.0	11 17	2 55.49	+ 0 21.8	2.150	3.096	6.4	17.6
11 27	2 47.97	+ 0 51.0	2.048	2.952	9.3	19.1	11 27	2 48.30	+ 0 8.4	2.202	3.101	8.9	17.8
12 7	2 42.09	+ 1 5.8	2.120	2.953	12.1	19.3	12 7	2 42.51	+ 0 11.7	2.280	3.106	11.6	18.0
12 17	2 38.18	+ 1 36.2	2.214	2.955	14.5	19.5	12 17	2 38.56	+ 0 30.9	2.378	3.110	13.9	18.1
<b>108079</b>	2001 <i>FV</i> <sub>170</sub>		11 9.9 140°33'	0.6°/ 10.3	16		<b>412840</b>	2014 <i>PF</i> <sub>50</sub>		11 9.9 41°42'	3.8°/ 12.4	17	
10 8	3 30.18	+20 41.4	1.845	2.685	14.0	21.3	10 8	3 27.09	+28 6.2	2.006	2.826	13.8	21.1
10 18	3 23.36	+20 17.2	1.782	2.697	10.3	21.1	10 18	3 21.26	+28 29.3	1.936	2.832	10.7	20.9
10 28	3 14.36	+19 42.1	1.742	2.709	6.1	20.8	10 28	3 13.25	+28 38.4	1.890	2.838	7.3	20.7
11 7	3 4.10	+18 58.2	1.730	2.719	1.6	20.6	11 7	3 3.91	+28 32.7	1.869	2.844	4.4	20.5
11 17	2 53.71	+18 9.7	1.748	2.730	3.1	20.7	11 17	2 54.27	+28 13.1	1.877	2.851	4.2	20.5
11 27	2 44.36	+17 22.1	1.795	2.739	7.4	21.0	11 27	2 45.51	+27 43.7	1.913	2.857	7.0	20.7
12 7	2 36.98	+16 40.8	1.868	2.748	11.3	21.2	12 7	2 38.58	+27 9.9	1.976	2.864	10.3	20.9
12 17	2 32.11	+16 10.0	1.965	2.756	14.5	21.5	12 17	2 34.07	+26 37.3	2.062	2.871	13.2	21.1
<b>147993</b>	1996 <i>FZ</i> <sub>8</sub>		11 9.9 231°01'	1.6°/ 8.9	18		<b>128486</b>	2004 <i>PB</i> <sub>11</sub>		11 9.9 162°79'	0.1°/ 9.9		



EPHEMERIDES

11 9.9

11 9.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>21487</b>	1998 <i>HV</i> <sub>148</sub>		11 9.9 60°42	0°3/10.1	18		<b>443459</b>	2014 <i>HZ</i> <sub>184</sub>		11 9.9 197°29	2°1/ 8.5	18	
10 8	3 26.23	+18 50.0	1.900	2.749	13.2	18.6	10 8	3 25.10	+13 50.0	1.846	2.705	13.1	21.5
10 18	3 20.40	+18 39.7	1.846	2.767	9.7	18.4	10 18	3 19.73	+13 4.2	1.777	2.705	9.5	21.2
10 28	3 12.63	+18 21.3	1.816	2.785	5.6	18.2	10 28	3 12.34	+12 12.7	1.733	2.704	5.5	21.0
11 7	3 3.75	+17 56.9	1.814	2.803	1.4	17.9	11 7	3 3.73	+11 19.8	1.717	2.704	2.2	20.8
11 17	2 54.80	+17 29.7	1.840	2.821	2.9	18.1	11 17	2 54.90	+10 30.7	1.728	2.703	4.3	20.9
11 27	2 46.79	+17 3.9	1.894	2.840	7.0	18.4	11 27	2 46.92	+ 9 50.6	1.768	2.703	8.3	21.2
12 7	2 40.57	+16 43.5	1.975	2.858	10.6	18.6	12 7	2 40.67	+ 9 23.4	1.834	2.702	12.0	21.4
12 17	2 36.62	+16 31.5	2.080	2.876	13.6	18.9	12 17	2 36.70	+ 9 11.2	1.922	2.701	15.1	21.6
<b>305883</b>	2009 <i>FJ</i> <sub>17</sub>		11 9.9 205°12	3°7/11.9	18		<b>211271</b>	2002 <i>RU</i> <sub>83</sub>		11 9.9 19°29	5°2/12.3	18	
10 8	3 30.82	+26 28.5	1.977	2.797	14.0	20.6	10 8	3 27.73	+26 59.7	1.239	2.091	18.7	19.4
10 18	3 24.13	+27 6.6	1.898	2.795	10.8	20.4	10 18	3 22.69	+27 52.2	1.187	2.101	14.5	19.2
10 28	3 15.04	+27 32.6	1.843	2.794	7.3	20.2	10 28	3 14.47	+28 26.4	1.156	2.112	9.9	19.0
11 7	3 4.37	+27 44.7	1.815	2.792	4.2	20.0	11 7	3 4.26	+28 39.8	1.147	2.124	6.0	18.8
11 17	2 53.24	+27 42.9	1.816	2.790	4.3	20.0	11 17	2 53.71	+28 33.1	1.163	2.138	5.8	18.8
11 27	2 42.94	+27 30.1	1.845	2.788	7.4	20.2	11 27	2 44.57	+28 11.5	1.203	2.154	9.5	19.1
12 7	2 34.55	+27 11.6	1.902	2.786	10.8	20.4	12 7	2 38.21	+27 43.4	1.267	2.170	13.6	19.4
12 17	2 28.77	+26 52.8	1.982	2.784	13.9	20.6	12 17	2 35.30	+27 16.6	1.351	2.187	17.3	19.7
<b>329896</b>	2005 <i>GA</i> <sub>115</sub>		11 9.9 144°75	1°8/10.9	18		<b>183012</b>	2002 <i>PM</i> <sub>88</sub>		11 9.9 61°54	0°9/10.5	18	
10 8	3 32.42	+21 45.7	1.599	2.441	15.7	21.0	10 8	3 28.46	+20 38.7	1.604	2.455	15.2	19.9
10 18	3 25.48	+21 59.4	1.533	2.447	11.7	20.8	10 18	3 22.28	+20 28.2	1.556	2.476	11.2	19.7
10 28	3 15.85	+22 1.6	1.489	2.453	7.2	20.5	10 28	3 13.80	+20 6.7	1.530	2.498	6.6	19.5
11 7	3 4.54	+21 52.2	1.472	2.459	2.7	20.3	11 7	3 4.05	+19 36.2	1.531	2.520	1.9	19.3
11 17	2 52.91	+21 33.4	1.482	2.464	3.6	20.4	11 17	2 54.27	+19 0.8	1.560	2.542	3.3	19.4
11 27	2 42.40	+21 10.0	1.521	2.468	8.2	20.6	11 27	2 45.69	+18 25.7	1.616	2.564	7.7	19.7
12 7	2 34.20	+20 47.8	1.585	2.472	12.4	20.9	12 7	2 39.25	+17 56.4	1.698	2.586	11.7	20.0
12 17	2 28.97	+20 31.8	1.672	2.476	16.0	21.2	12 17	2 35.47	+17 36.7	1.802	2.608	15.0	20.3
<b>449852</b>	2015 <i>KV</i> <sub>36</sub>		11 9.9 63°57	2°4/ 8.7	18		<b>422092</b>	2014 <i>QW</i> <sub>397</sub>		11 9.9 71°96	3°4/12.5	17	
10 8	3 27.77	+12 30.9	1.593	2.456	14.6	21.1	10 8	3 26.21	+28 16.7	2.220	3.035	12.8	21.7
10 18	3 21.68	+12 2.5	1.547	2.476	10.6	20.9	10 18	3 20.45	+28 28.7	2.148	3.041	9.9	21.5
10 28	3 13.41	+11 30.9	1.525	2.496	6.1	20.7	10 28	3 12.74	+28 27.4	2.100	3.047	6.8	21.3
11 7	3 3.93	+11 0.2	1.529	2.516	2.5	20.5	11 7	3 3.85	+28 12.3	2.078	3.054	4.0	21.2
11 17	2 54.44	+10 34.8	1.561	2.536	4.6	20.7	11 17	2 54.73	+27 45.0	2.086	3.060	3.8	21.2
11 27	2 46.10	+10 18.0	1.620	2.556	8.8	21.0	11 27	2 46.39	+27 9.3	2.122	3.067	6.4	21.4
12 7	2 39.80	+10 15.0	1.704	2.576	12.5	21.3	12 7	2 39.70	+26 30.3	2.186	3.073	9.5	21.6
12 17	2 36.06	+10 24.5	1.810	2.597	15.7	21.5	12 17	2 35.22	+25 53.1	2.274	3.080	12.3	21.8
<b>230720</b>	2003 <i>UW</i> <sub>192</sub>		11 9.9 65°69	2°1/11.5	18		<b>237216</b>	2008 <i>UG</i> <sub>340</sub>		11 9.9 52°32	1°3/10.7	18	
10 8	3 25.29	+24 41.8	2.118	2.949	12.8	20.4	10 8	3 28.04	+21 41.4	1.434	2.290	16.4	19.7
10 18	3 19.68	+24 35.2	2.056	2.963	9.6	20.3	10 18	3 22.28	+21 29.3	1.383	2.305	12.1	19.4
10 28	3 12.21	+24 16.8	2.017	2.976	6.1	20.1	10 28	3 13.94	+21 3.9	1.354	2.322	7.3	19.2
11 7	3 3.67	+23 47.5	2.006	2.990	2.7	19.9	11 7	3 4.12	+20 27.3	1.350	2.338	2.3	19.0
11 17	2 55.01	+23 10.0	2.024	3.004	3.0	19.9	11 17	2 54.19	+19 44.0	1.373	2.355	3.5	19.1
11 27	2 47.20	+22 28.8	2.070	3.018	6.3	20.2	11 27	2 45.57	+19 0.6	1.422	2.372	8.3	19.4
12 7	2 41.04	+21 48.9	2.144	3.032	9.6	20.4	12 7	2 39.28	+18 23.4	1.496	2.390	12.6	19.7
12 17	2 37.04	+21 14.6	2.242	3.046	12.5	20.6	12 17	2 35.90	+17 57.2	1.592	2.407	16.2	20.0
<b>240676</b>	2005 <i>EJ</i> <sub>120</sub>		11 9.9 316°36	10°3/ 1.3	18		<b>517995</b>	2015 <i>UY</i> <sub>53</sub>		11 9.9 167°09	2°1/11.3	18	
10 8	3 23.15	- 5 45.8	1.700	2.557	14.2	19.8	10 8	3 29.56	+23 36.8	2.342	3.163	12.0	22.1
10 18	3 18.36	- 7 57.3	1.653	2.554	11.9	19.6	10 18	3 22.78	+23 56.3	2.265	3.166	9.1	21.9
10 28	3 11.55	- 9 57.2	1.630	2.551	10.4	19.6	10 28	3 14.07	+24 6.3	2.213	3.170	5.8	21.7
11 7	3 3.53	-11 35.1	1.632	2.549	10.5	19.6	11 7	3 4.17	+24 6.6	2.189	3.173	2.7	21.5
11 17	2 55.33	-12 43.2	1.659	2.547	12.1	19.7	11 17	2 53.98	+23 58.2	2.196	3.175	3.0	21.5
11 27	2 48.01	-13 17.4	1.709	2.544	14.5	19.8	11 27	2 44.51	+23 43.9	2.233	3.177	6.2	21.7
12 7	2 42.44	-13 18.4	1.779	2.542	16.9	20.0	12 7	2 36.61	+23 27.7	2.299	3.179	9.4	21.9
12 17	2 39.15	-12 49.9	1.866	2.540	19.0	20.1	12 17	2 30.86	+23 13.5	2.389	3.180	12.2	22.1
<b>430893</b>	2005 <i>RZ</i> <sub>20</sub>		11 9.9 54°08	2°5/11.5	18		<b>334676</b>	2003 <i>AR</i> <sub>61</sub>		11 9.9 330°15	2°0/11.2	18	
10 8	3 28.07	+25 28.0	1.332	2.183	17.7	20.1	10 8	3 22.83	+24 35.8	1.202	2.068	18.1	19.8
10 18	3 22.51	+25 4.6	1.279	2.197	13.3	19.9	10 18	3 19.32	+24 4.1	1.125	2.052	13.8	19.5
10 28	3 14.12	+24 22.0	1.247	2.211	8.4	19.7	10 28	3 12.68	+23 10.0	1.068	2.036	8.7	19.2
11 7	3 4.13	+23 22.5	1.240	2.225	3.5	19.4	11 7	3 3.92	+21 55.8	1.034	2.022	3.3	18.8
11 17	2 54.03	+22 11.9	1.258	2.240	3.9	19.5	11 17	2 54.54	+20 27.7	1.025	2.008	4.1	18.8
11 27	2 45.36	+20 58.9	1.303	2.255	8.7	19.8	11 27	2 46.31	+18 56.5	1.040	1.995	9.8	19.1
12 7	2 39.23	+19 52.7	1.372	2.270	13.2	20.1	12 7	2 40.65	+17 33.9	1.078	1.984	15.2	19.4
12 17	2 36.22	+18 59.8	1.463	2.286	17.0	20.4	12 17	2 38.39	+16 28.6	1.135	1.973	19.8	19.6
<b>191647</b>	2004 <i>PK</i> <sub>43</sub>		11 9.9 138°10	3°1/12.0	18		<b>485859</b>	2012 <i>FP</i>		11 9.9 223°11	0°8/ 9.3	18	
10 8	3 29.47	+27 8.5	1.803	2.628	14.9	20.6	10 8	3 24.02	+15 32.1	2.886	3.726	9.5	23.8
10 18	3 23.10	+27 0.6	1.734	2.636	11.4	20.4	10 18	3 18.42	+15 9.6	2.797	3.715	6.9	23.6
10 28	3 14.35	+26 36.3	1.689	2.643	7.5	20.2	10 28	3 11.42	+14 42.7	2.735	3.703	4.0	23.4
11 7	3 4.19	+25 56.1	1.669	2.650	3.8	20.0	11 7	3 3.55	+14 13.2	2.702	3.691	1.1	23.2
11 17	2 53.82	+25 3.1	1.678	2.656	3.8	20.0	11 17	2 55.44	+13 43.6	2.700	3.678	2.6	23.3
11 27	2 44.51	+24 3.4	1.715	2.663	7.4	20.2	11 27	2 47.82	+13 16.9	2.729	3.665	5.7	23.5
12 7	2 37.26	+23 4.1	1.779	2.668	11.2	20.5	12 7	2 41.30	+12 55.9	2.787	3.651	8.5	23.6
12 17	2 32.69	+22 11.8	1.867	2.674	14.5	20.7	12 17	2 36.35	+12 42.6	2.870	3.637	10.9	23.8
<b>155967</b>	2001 <i>QA</i> <sub>215</sub>		11 9.9 351°35	1°2/ 9.4	18		<b>450473</b>	2005 <i>WZ</i> <sub>154</sub>		11			

EPHEMERIDES

11 9.9

11 10.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>89812</b>	2002 <i>AK</i> <sub>178</sub>	11	9.9 132°72	0°3/10.2	18		<b>16416</b>	1987 <i>SM</i> <sub>3</sub>	11	9.9 145°89	4°1/12.4	18	
10 8	3 25.38	+19 23.7	2.239	3.080	11.8	19.5	10 8	3 32.39	+28 31.2	1.546	2.372	16.9	17.7
10 18	3 19.69	+19 9.6	2.169	3.085	8.7	19.3	10 18	3 25.66	+28 33.8	1.479	2.379	13.1	17.5
10 28	3 12.24	+18 47.7	2.123	3.090	5.1	19.1	10 28	3 16.06	+28 17.0	1.433	2.385	8.8	17.3
11 7	3 3.74	+18 19.7	2.106	3.095	1.3	18.9	11 7	3 4.70	+27 40.0	1.413	2.391	4.9	17.1
11 17	2 55.07	+17 48.5	2.118	3.100	2.6	19.0	11 17	2 53.05	+26 45.7	1.420	2.397	4.7	17.1
11 27	2 47.13	+17 18.0	2.160	3.104	6.3	19.2	11 27	2 42.67	+25 41.1	1.454	2.402	8.4	17.3
12 7	2 40.69	+16 51.9	2.229	3.109	9.7	19.4	12 7	2 34.79	+24 35.4	1.514	2.406	12.6	17.6
12 17	2 36.27	+16 33.3	2.323	3.113	12.5	19.6	12 17	2 30.06	+23 36.7	1.596	2.410	16.2	17.8
<b>46044</b>	2001 <i>DP</i> <sub>68</sub>	11	9.9 189°42	0°3/10.2	18		<b>46948</b>	1998 <i>SU</i> <sub>114</sub>	11	9.9 104°21	0°8/ 9.5	18	
10 8	3 27.03	+19 39.0	1.984	2.828	13.0	20.0	10 8	3 27.42	+16 0.8	1.855	2.708	13.3	19.5
10 18	3 21.13	+19 19.4	1.909	2.827	9.6	19.8	10 18	3 21.41	+15 43.1	1.793	2.716	9.7	19.3
10 28	3 13.18	+18 50.4	1.859	2.826	5.6	19.6	10 28	3 13.33	+15 19.2	1.755	2.725	5.6	19.0
11 7	3 3.98	+18 14.1	1.836	2.825	1.4	19.3	11 7	3 4.04	+14 51.8	1.744	2.733	1.4	18.8
11 17	2 54.52	+17 33.9	1.842	2.824	3.0	19.4	11 17	2 54.57	+14 24.5	1.762	2.741	3.4	19.0
11 27	2 45.88	+16 54.6	1.878	2.822	7.1	19.6	11 27	2 46.03	+14 1.3	1.808	2.750	7.6	19.2
12 7	2 38.96	+16 21.0	1.940	2.820	10.9	19.9	12 7	2 39.30	+13 46.2	1.881	2.757	11.3	19.5
12 17	2 34.33	+15 56.7	2.025	2.818	14.0	20.1	12 17	2 34.92	+13 41.4	1.976	2.765	14.5	19.7
<b>74496</b>	1999 <i>CO</i> <sub>136</sub>	11	9.9 305°05	0°1/10.0	17		<b>73272</b>	2002 <i>JW</i> <sub>51</sub>	11	9.9 147°56	0°1/10.1	18	
10 8	3 23.17	+18 42.5	2.180	3.027	11.8	19.8	10 8	3 27.47	+19 47.7	2.320	3.155	11.6	20.1
10 18	3 18.25	+18 23.5	2.095	3.016	8.7	19.6	10 18	3 21.08	+19 15.5	2.252	3.166	8.5	20.0
10 28	3 11.50	+17 56.6	2.036	3.005	5.1	19.4	10 28	3 13.00	+18 34.6	2.210	3.177	5.0	19.8
11 7	3 3.61	+17 23.9	2.004	2.993	1.2	19.1	11 7	3 3.95	+17 47.6	2.197	3.187	1.2	19.5
11 17	2 55.40	+16 48.4	2.001	2.982	2.8	19.2	11 17	2 54.80	+16 57.8	2.215	3.196	2.6	19.6
11 27	2 47.83	+16 14.2	2.027	2.971	6.7	19.4	11 27	2 46.44	+16 9.8	2.263	3.205	6.3	19.9
12 7	2 41.71	+15 45.4	2.080	2.961	10.2	19.6	12 7	2 39.61	+15 27.9	2.340	3.213	9.5	20.1
12 17	2 37.60	+15 25.4	2.156	2.950	13.2	19.8	12 17	2 34.78	+14 55.4	2.441	3.220	12.3	20.3
<b>174604</b>	2003 <i>QO</i> <sub>111</sub>	11	9.9 99°89	1°8/ 9.2	18		<b>495359</b>	2014 <i>OB</i> <sub>91</sub>	11	9.9 31°19	4°7/ 6.6	18	
10 8	3 33.82	+13 40.6	1.481	2.337	15.9	20.4	10 8	3 23.15	+ 6 10.0	1.920	2.785	12.4	21.2
10 18	3 26.24	+13 26.1	1.435	2.360	11.5	20.2	10 18	3 18.19	+ 5 8.3	1.861	2.787	9.3	21.0
10 28	3 16.13	+13 7.1	1.412	2.382	6.7	19.9	10 28	3 11.42	+ 4 7.9	1.827	2.790	6.2	20.8
11 7	3 4.65	+12 46.8	1.415	2.404	2.1	19.7	11 7	3 3.60	+ 3 14.5	1.820	2.793	4.7	20.7
11 17	2 53.16	+12 29.1	1.447	2.425	4.4	19.9	11 17	2 55.62	+ 2 33.2	1.841	2.797	6.4	20.8
11 27	2 43.06	+12 18.4	1.506	2.445	9.1	20.2	11 27	2 48.43	+ 2 8.2	1.889	2.800	9.5	21.0
12 7	2 35.35	+12 17.9	1.591	2.465	13.2	20.5	12 7	2 42.83	+ 2 1.3	1.962	2.804	12.5	21.2
12 17	2 30.58	+12 29.3	1.697	2.484	16.5	20.8	12 17	2 39.30	+ 2 12.2	2.056	2.807	15.2	21.4
<b>38603</b>	1999 <i>XO</i> <sub>242</sub>	11	9.9 327°90	4°1/ 6.9	18		<b>515472</b>	2014 <i>AN</i> <sub>10</sub>	11	9.9 193°67	5°7/ 6.0	18	
10 8	3 22.44	+12 15.3	1.555	2.429	14.3	18.6	10 8	3 26.58	+ 3 24.3	1.928	2.785	12.7	21.5
10 18	3 18.14	+10 36.3	1.486	2.420	10.5	18.3	10 18	3 20.71	+ 2 18.1	1.864	2.783	9.7	21.3
10 28	3 11.58	+ 8 49.2	1.440	2.412	6.4	18.1	10 28	3 12.91	+ 1 15.0	1.825	2.781	6.9	21.1
11 7	3 3.64	+ 7 2.2	1.422	2.404	4.1	17.9	11 7	3 3.95	+ 0 21.4	1.814	2.779	5.8	21.1
11 17	2 55.42	+ 5 24.7	1.431	2.397	6.5	18.1	11 17	2 54.80	- 0 17.5	1.831	2.776	7.4	21.2
11 27	2 48.11	+ 4 5.3	1.466	2.390	10.6	18.3	11 27	2 46.45	- 0 37.5	1.875	2.773	10.3	21.3
12 7	2 42.70	+ 3 9.5	1.525	2.383	14.6	18.5	12 7	2 39.75	- 0 37.5	1.943	2.769	13.3	21.5
12 17	2 39.78	+ 2 39.0	1.604	2.377	17.9	18.7	12 17	2 35.24	- 0 18.2	2.033	2.765	15.9	21.7
<b>16448</b>	1989 <i>RV</i> <sub>2</sub>	11	9.9 40°32	0°4/10.1	18		<b>9979</b>	1994 <i>VT</i>	11	9.9 314°19	1°6/10.8	18	
10 8	3 31.11	+17 23.6	1.068	1.943	19.2	17.0	10 8	3 26.29	+21 44.2	1.346	2.208	16.9	18.2
10 18	3 25.13	+17 41.0	1.025	1.959	14.1	16.7	10 18	3 21.71	+21 42.8	1.264	2.189	12.8	17.9
10 28	3 15.84	+17 49.0	1.002	1.975	8.2	16.5	10 28	3 14.08	+21 27.3	1.202	2.171	7.9	17.5
11 7	3 4.63	+17 49.1	1.003	1.993	2.0	16.1	11 7	3 4.32	+20 58.3	1.165	2.153	2.7	17.2
11 17	2 53.27	+17 44.3	1.028	2.011	4.3	16.4	11 17	2 53.83	+20 19.1	1.153	2.135	4.0	17.2
11 27	2 43.62	+17 40.0	1.077	2.029	10.1	16.7	11 27	2 44.30	+19 36.2	1.166	2.119	9.4	17.5
12 7	2 36.97	+17 41.5	1.150	2.049	15.1	17.1	12 7	2 37.17	+18 57.6	1.203	2.102	14.5	17.7
12 17	2 33.92	+17 52.3	1.241	2.069	19.1	17.4	12 17	2 33.32	+18 29.8	1.260	2.087	18.9	18.0
<b>460192</b>	2014 <i>QC</i> <sub>135</sub>	11	9.9 344°18	5°6/ 6.0	18		<b>523423</b>	2017 <i>EE</i> <sub>12</sub>	11	9.9 314°77	11°4/ 2.8	18	
10 8	3 22.17	+ 3 35.0	1.898	2.764	12.5	20.4	10 8	3 27.84	-18 29.5	2.162	2.955	13.8	20.1
10 18	3 17.55	+ 2 35.8	1.835	2.759	9.5	20.2	10 18	3 21.47	-19 11.4	2.109	2.947	12.4	20.0
10 28	3 11.09	+ 1 40.0	1.796	2.755	6.7	20.1	10 28	3 13.28	-19 32.7	2.078	2.939	11.5	19.9
11 7	3 3.51	+ 0 53.4	1.784	2.751	5.6	20.0	11 7	3 4.03	-19 27.7	2.071	2.932	11.4	19.9
11 17	2 55.72	+ 0 21.3	1.799	2.747	7.2	20.1	11 17	2 54.65	-18 53.3	2.087	2.924	12.2	20.0
11 27	2 48.68	+ 0 7.4	1.840	2.744	10.1	20.3	11 27	2 46.08	-17 49.5	2.128	2.917	13.7	20.0
12 7	2 43.19	+ 0 13.0	1.906	2.741	13.1	20.5	12 7	2 39.12	-16 19.7	2.190	2.910	15.3	20.2
12 17	2 39.78	+ 0 37.1	1.992	2.739	15.7	20.6	12 17	2 34.26	-14 29.2	2.270	2.903	16.9	20.3
<b>328502</b>	2009 <i>PW</i> <sub>14</sub>	11	9.9 110°45	1°5/10.9	17		<b>184532</b>	2005 <i>QQ</i> <sub>25</sub>	11	9.9 89°35	1°8/11.1	18	
10 8	3 30.82	+23 17.4	1.598	2.439	15.7	21.0	10 8	3 27.45	+22 38.2	2.018	2.853	13.1	20.8
10 18	3 24.13	+22 54.3	1.541	2.455	11.7	20.8	10 18	3 21.45	+22 45.9	1.949	2.859	9.8	20.6
10 28	3 14.97	+22 16.6	1.506	2.470	7.1	20.6	10 28	3 13.39	+22 43.4	1.904	2.866	6.1	20.4
11 7	3 4.40	+21 26.3	1.498	2.486	2.5	20.3	11 7	3 4.08	+22 31.1	1.886	2.872	2.5	20.1
11 17	2 53.75	+20 28.1	1.518	2.500	3.4	20.4	11 17	2 54.53	+22 11.0	1.897	2.878	3.0	20.2
11 27	2 44.35	+19 29.0	1.567	2.514	7.9	20.7	11 27	2 45.83	+21 46.9	1.938	2.884	6.7	20.4
12 7	2 37.21	+18 36.1	1.641	2.528	12.1	21.0	12 7	2 38.87	+21 23.4	2.005	2.891	10.3	20.7
12 17	2 32.90	+17 54.5	1.738	2.541	15.5	21.3	12 17	2 34.22	+21 4.6	2.096	2.897	13.3	20.9
<b>60491</b>	2000 <i>DD</i> <sub>78</sub>	11	9.9 127°21	1°1/10.7	18		<b>188830</b>	2006 <i>AX</i> <sub>21</sub>	11	1			