

# EPHEMERIDES

1 25.9

1 26.0

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>289071</b>	2004 <i>TC</i> <sub>211</sub>		1 25.9 252° 97	1.7°/25.0	18		<b>100345</b>	1995 <i>ST</i> <sub>61</sub>		1 26.0 93° 10	2.4°/27.3	18	
12 23	8 55.89	+21 58.4	1.979	2.806	13.0	21.2	12 23	9 0.10	+10 24.5	1.480	2.290	17.4	20.0
1 2	8 50.66	+22 31.4	1.900	2.804	9.6	21.0	1 2	8 53.99	+10 49.9	1.425	2.314	13.3	19.8
1 12	8 43.14	+23 9.0	1.846	2.802	5.8	20.7	1 12	8 45.19	+11 32.7	1.392	2.338	8.5	19.5
1 22	8 34.05	+23 46.2	1.819	2.800	2.2	20.5	1 22	8 34.64	+12 28.7	1.384	2.361	3.7	19.3
2 1	8 24.41	+24 18.2	1.822	2.798	3.5	20.6	2 1	8 23.70	+13 31.5	1.405	2.384	3.5	19.4
2 11	8 15.40	+24 41.2	1.854	2.796	7.4	20.8	2 11	8 13.80	+14 34.4	1.454	2.406	8.0	19.7
2 21	8 8.03	+24 53.4	1.912	2.794	11.1	21.0	2 21	8 6.09	+15 31.7	1.529	2.428	12.3	20.0
3 2	8 3.04	+24 54.8	1.993	2.792	14.3	21.2	3 2	8 1.28	+16 20.0	1.626	2.449	15.9	20.3
<b>354167</b>	2002 <i>CZ</i> <sub>254</sub>		1 25.9 304° 43	4.1°/27.7	18		<b>383387</b>	2006 <i>TC</i> <sub>11</sub>		1 26.0 171° 31	3° 7/22.8	17	
12 23	8 54.68	+ 9 10.7	1.424	2.242	17.6	20.6	12 23	8 55.55	+32 0.8	3.098	3.912	9.1	22.0
1 2	8 50.57	+ 8 58.1	1.334	2.225	13.8	20.4	1 2	8 49.75	+32 48.3	3.024	3.915	6.9	21.9
1 12	8 43.52	+ 9 3.6	1.265	2.209	9.5	20.1	1 12	8 42.31	+33 33.0	2.978	3.918	4.9	21.7
1 22	8 34.27	+ 9 26.6	1.219	2.192	5.2	19.8	1 22	8 33.79	+34 10.4	2.961	3.920	3.7	21.7
2 1	8 24.01	+10 4.4	1.200	2.176	4.7	19.7	2 1	8 24.92	+34 37.1	2.976	3.922	4.6	21.7
2 11	8 14.31	+10 51.5	1.207	2.160	9.0	19.9	2 11	8 16.50	+34 51.0	3.020	3.924	6.6	21.9
2 21	8 6.57	+11 41.8	1.238	2.145	13.8	20.1	2 21	8 9.24	+34 52.1	3.091	3.925	8.7	22.0
3 2	8 1.86	+12 29.6	1.289	2.130	18.2	20.3	3 2	8 3.70	+34 41.4	3.187	3.926	10.7	22.2
<b>329246</b>	1995 <i>FN</i> <sub>14</sub>		1 25.9 45° 30	2.9°/24.4	18		<b>10288</b>	Saville		1 26.0 97° 66	4.8°/28.3	18	
12 23	8 57.03	+24 15.2	1.753	2.587	14.1	21.5	12 23	9 1.03	+ 6 19.2	1.678	2.464	16.7	18.5
1 2	8 51.77	+25 1.8	1.682	2.588	10.5	21.3	1 2	8 54.34	+ 5 53.9	1.620	2.489	13.1	18.3
1 12	8 43.93	+25 51.9	1.634	2.590	6.5	21.0	1 12	8 45.25	+ 5 45.9	1.584	2.514	9.2	18.1
1 22	8 34.30	+26 38.9	1.614	2.592	3.1	20.8	1 22	8 34.65	+ 5 54.6	1.575	2.538	5.7	18.0
2 1	8 24.08	+27 16.7	1.622	2.593	4.6	20.9	2 1	8 23.73	+ 6 17.5	1.593	2.562	5.1	18.0
2 11	8 14.62	+27 40.9	1.658	2.595	8.5	21.2	2 11	8 13.77	+ 6 50.3	1.641	2.585	8.0	18.2
2 21	8 7.09	+27 50.2	1.719	2.597	12.4	21.4	2 21	8 5.78	+ 7 28.1	1.715	2.607	11.6	18.5
3 2	8 2.27	+27 45.7	1.803	2.599	15.7	21.6	3 2	8 0.43	+ 8 6.3	1.812	2.629	14.8	18.7
<b>324520</b>	2006 <i>VS</i> <sub>87</sub>		1 25.9 40° 55	2.9°/24.7	18		<b>262848</b>	2007 <i>BT</i> <sub>17</sub>		1 26.0 19° 94	1.6°/26.9	18	
12 23	8 58.07	+24 11.0	1.430	2.273	16.2	20.5	12 23	8 53.30	+12 36.6	1.519	2.345	16.3	20.7
1 2	8 52.80	+24 44.8	1.375	2.286	12.0	20.3	1 2	8 49.14	+13 0.4	1.449	2.349	12.3	20.5
1 12	8 44.59	+25 21.6	1.343	2.300	7.3	20.1	1 12	8 42.41	+13 39.8	1.402	2.354	7.8	20.2
1 22	8 34.48	+25 54.2	1.336	2.314	3.3	19.9	1 22	8 33.89	+14 31.0	1.380	2.359	3.0	20.0
2 1	8 23.91	+26 16.5	1.356	2.329	4.8	20.0	2 1	8 24.78	+15 28.3	1.385	2.365	3.1	20.0
2 11	8 14.48	+26 24.8	1.402	2.345	9.2	20.3	2 11	8 16.44	+16 25.2	1.417	2.371	7.8	20.3
2 21	8 7.41	+26 18.8	1.473	2.361	13.4	20.6	2 21	8 10.02	+17 16.4	1.474	2.378	12.3	20.6
3 2	8 3.45	+26 0.3	1.564	2.377	16.9	20.9	3 2	8 6.31	+17 58.4	1.553	2.386	16.1	20.8
<b>16131</b>	Kaganovich		1 25.9 32° 24	1° 0/25.4	18		<b>427568</b>	2003 <i>BG</i> <sub>4</sub>		1 26.0 292° 00	1.4°/26.9	17	
12 23	8 55.18	+20 18.2	2.008	2.832	12.9	18.9	12 23	8 53.80	+14 6.1	2.370	3.175	11.8	21.1
1 2	8 50.05	+20 44.3	1.931	2.833	9.6	18.7	1 2	8 48.69	+13 59.5	2.285	3.173	9.0	20.9
1 12	8 42.73	+21 15.8	1.878	2.834	5.7	18.5	1 12	8 41.78	+14 0.5	2.224	3.171	5.7	20.7
1 22	8 33.94	+21 48.6	1.854	2.835	1.8	18.2	1 22	8 33.66	+14 7.5	2.191	3.169	2.3	20.5
2 1	8 24.64	+22 18.1	1.858	2.836	3.0	18.3	2 1	8 25.13	+14 18.2	2.189	3.167	2.4	20.5
2 11	8 15.98	+22 40.9	1.892	2.837	7.0	18.6	2 11	8 17.08	+14 30.3	2.216	3.166	5.8	20.7
2 21	8 8.89	+22 54.9	1.952	2.839	10.7	18.8	2 21	8 10.30	+14 41.5	2.271	3.164	9.1	20.9
3 2	8 4.10	+22 59.6	2.036	2.840	13.8	19.0	3 2	8 5.39	+14 50.4	2.351	3.162	12.0	21.1
<b>81182</b>	2000 <i>EW</i> <sub>183</sub>		1 25.9 155° 77	1.5°/27.2	18		<b>308751</b>	2006 <i>JA</i> <sub>51</sub>		1 26.0 205° 92	2.6°/24.6	18	
12 23	8 52.44	+11 3.6	2.330	3.129	12.2	19.3	12 23	8 59.16	+23 26.6	1.804	2.632	14.0	21.7
1 2	8 47.73	+11 41.7	2.247	3.132	9.3	19.2	1 2	8 53.38	+24 14.4	1.725	2.629	10.4	21.4
1 12	8 41.22	+12 32.1	2.189	3.134	5.9	18.9	1 12	8 44.95	+25 6.8	1.670	2.625	6.4	21.2
1 22	8 33.49	+13 31.8	2.159	3.136	2.5	18.7	1 22	8 34.65	+25 57.3	1.643	2.621	2.9	21.0
2 1	8 25.30	+14 36.8	2.159	3.138	2.4	18.7	2 1	8 23.64	+26 39.4	1.645	2.617	4.4	21.1
2 11	8 17.56	+15 42.1	2.190	3.140	5.8	18.9	2 11	8 13.32	+27 8.4	1.675	2.612	8.5	21.3
2 21	8 11.05	+16 43.5	2.249	3.142	9.2	19.2	2 21	8 4.90	+27 22.7	1.731	2.607	12.4	21.5
3 2	8 6.39	+17 38.0	2.333	3.143	12.1	19.4	3 2	7 59.22	+27 23.1	1.809	2.601	15.8	21.7
<b>97549</b>	2000 <i>DM</i> <sub>58</sub>		1 25.9 40° 22	1.9°/25.2	18		<b>335960</b>	2007 <i>TW</i> <sub>150</sub>		1 26.0 140° 14	3.4°/28.4	18	
12 23	8 57.53	+23 37.5	1.837	2.667	13.7	19.6	12 23	8 53.00	+ 6 15.6	2.620	3.393	11.7	21.1
1 2	8 51.85	+23 47.1	1.771	2.676	10.1	19.4	1 2	8 47.87	+ 6 11.4	2.539	3.402	9.2	20.9
1 12	8 43.80	+23 58.4	1.730	2.686	6.1	19.2	1 12	8 41.19	+ 6 19.3	2.483	3.410	6.5	20.7
1 22	8 34.23	+24 7.1	1.716	2.696	2.3	19.0	1 22	8 33.48	+ 6 38.3	2.455	3.418	4.0	20.6
2 1	8 24.27	+24 9.3	1.730	2.706	3.6	19.1	2 1	8 25.44	+ 7 6.7	2.457	3.425	3.6	20.6
2 11	8 15.18	+24 2.8	1.773	2.716	7.5	19.4	2 11	8 17.84	+ 7 41.5	2.489	3.432	5.7	20.7
2 21	8 7.96	+23 47.3	1.842	2.727	11.3	19.6	2 21	8 11.35	+ 8 19.5	2.550	3.439	8.4	20.9
3 2	8 3.28	+23 24.0	1.934	2.738	14.4	19.8	3 2	8 6.50	+ 8 57.7	2.636	3.446	10.9	21.1
<b>239232</b>	2006 <i>SH</i> <sub>119</sub>		1 25.9 157° 13	1.9°/24.5	18		<b>412036</b>	2013 <i>CO</i> <sub>153</sub>		1 26.0 246° 33	2.9°/24.5	17	
12 23	8 54.29	+24 26.1	2.813	3.630	9.8	20.9	12 23	8 59.83	+24 14.1	1.797	2.625	14.1	22.5
1 2	8 48.84	+25 0.6	2.737	3.635	7.3	20.7	1 2	8 54.03	+24 56.4	1.708	2.611	10.5	22.2
1 12	8 41.77	+25 36.4	2.687	3.640	4.5	20.5	1 12	8 45.45	+25 42.7	1.643	2.597	6.6	21.9
1 22	8 33.62	+26 9.8	2.667	3.645	2.1	20.4	1 22	8 34.83	+26 26.7	1.605	2.582	3.1	21.7
2 1	8 25.14	+26 37.5	2.678	3.649	3.1	20.5	2 1	8 23.35	+27 1.8	1.596	2.567	4.6	21.8
2 11	8 17.12	+26 56.9	2.720	3.653	5.8	20.6	2 11	8 12.47	+27 23.3	1.615	2.552	8.8	22.0
2 21	8 10.27	+27 7.0	2.790	3.657	8.5	20.8	2 21	8 3.47	+27 29.9	1.661	2.536	12.9	22.2
3 2	8 5.13	+27 8.1	2.884	3.660	10.9	21.0	3 2	7 57.32	+27 22.4	1.728	2.519	16.4	22.4
<b>172767</b>	2004 <i>DH</i> <sub>60</sub>		1 25.9 247° 50	0.4°/25.8	18		<b>390985</b>	2005 <i>SR</i> <sub>34</sub>		1 26.0 196° 38	2.9°/24.5	18	
12 23													

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>178616</b>	2000 <i>EN</i> <sub>140</sub>		1 26.0 238°05'		2.4/24.8	18	<b>240719</b>	2005 <i>GE</i> <sub>130</sub>		1 26.0 174°74'		1.0/25.3	18
12 23	9 0.05	+24 45.5	1.990	2.813	13.1	21.2	12 23	8 54.15	+20 35.9	2.491	3.307	11.0	21.5
1 2	8 53.86	+25 7.7	1.902	2.803	9.8	21.0	1 2	8 48.93	+21 3.3	2.410	3.308	8.1	21.3
1 12	8 45.16	+25 31.4	1.838	2.792	6.1	20.7	1 12	8 41.93	+21 34.9	2.355	3.309	4.9	21.1
1 22	8 34.70	+25 51.6	1.802	2.780	2.7	20.5	1 22	8 33.73	+22 7.2	2.329	3.310	1.6	20.8
2 1	8 23.58	+26 3.6	1.796	2.768	4.0	20.5	2 1	8 25.13	+22 36.6	2.333	3.310	2.6	20.9
2 11	8 13.09	+26 4.3	1.819	2.756	7.9	20.8	2 11	8 17.01	+23 0.0	2.368	3.311	6.0	21.1
2 21	8 4.35	+25 53.4	1.868	2.744	11.7	21.0	2 21	8 10.15	+23 15.9	2.431	3.311	9.1	21.3
3 2	7 58.18	+25 31.9	1.941	2.731	14.9	21.2	3 2	8 5.16	+23 23.7	2.518	3.311	11.8	21.5
<b>319867</b>	2006 <i>WE</i> <sub>73</sub>		1 26.0 192°20'		1.9/27.0	18	<b>142562</b>	Graetz		1 26.0 50°53'		3.9/24.1	18
12 23	8 56.56	+12 36.3	2.003	2.807	13.7	21.5	12 23	8 58.55	+26 32.2	1.629	2.466	14.8	20.1
1 2	8 51.05	+12 40.2	1.919	2.806	10.5	21.3	1 2	8 53.08	+27 19.0	1.564	2.471	11.1	19.9
1 12	8 43.36	+12 55.1	1.859	2.805	6.7	21.1	1 12	8 44.80	+28 6.8	1.522	2.476	7.0	19.7
1 22	8 34.16	+13 18.7	1.826	2.803	2.9	20.8	1 22	8 34.61	+28 48.4	1.506	2.481	4.0	19.5
2 1	8 24.41	+13 47.8	1.823	2.801	2.9	20.8	2 1	8 23.85	+29 17.2	1.518	2.486	5.5	19.6
2 11	8 15.23	+14 18.7	1.849	2.799	6.7	21.1	2 11	8 14.01	+29 29.4	1.558	2.491	9.3	19.9
2 21	8 7.58	+14 48.0	1.902	2.796	10.5	21.3	2 21	8 6.33	+29 24.8	1.622	2.497	13.1	20.1
3 2	8 2.19	+15 13.2	1.980	2.793	13.8	21.5	3 2	8 1.60	+29 5.7	1.707	2.502	16.5	20.3
<b>298358</b>	2003 <i>PQ</i> <sub>8</sub>		1 26.0 70°99'		0.2/26.1	17	<b>461950</b>	2006 <i>TP</i> <sub>9</sub>		1 26.0 168°63'		7.4/2.3	17
12 23	9 3.82	+18 33.5	1.485	2.308	16.7	20.3	12 23	8 51.13	-12 57.4	3.311	3.959	11.7	22.5
1 2	8 56.58	+18 29.9	1.438	2.339	12.4	20.1	1 2	8 46.29	-13 28.0	3.224	3.963	10.4	22.4
1 12	8 46.62	+18 33.2	1.414	2.369	7.4	19.9	1 12	8 40.17	-13 41.1	3.157	3.967	9.0	22.3
1 22	8 35.03	+18 39.2	1.417	2.399	2.2	19.6	1 22	8 33.20	-13 35.1	3.114	3.970	7.9	22.2
2 1	8 23.28	+18 43.9	1.449	2.429	3.1	19.7	2 1	8 25.92	-13 9.9	3.098	3.973	7.4	22.2
2 11	8 12.85	+18 44.7	1.508	2.458	8.0	20.1	2 11	8 18.95	-12 27.1	3.109	3.975	7.7	22.2
2 21	8 4.83	+18 40.3	1.594	2.487	12.2	20.4	2 21	8 12.82	-11 30.1	3.147	3.977	8.7	22.3
3 2	7 59.83	+18 30.7	1.701	2.516	15.7	20.7	3 2	8 8.00	-10 23.2	3.210	3.978	10.1	22.4
<b>453037</b>	2007 <i>RG</i> <sub>321</sub>		1 26.0 51°95'		4.0/27.7	18	<b>318680</b>	2005 <i>QD</i> <sub>18</sub>		1 26.0 119°81'		3.2/28.1	18
12 23	8 57.21	+9 40.7	1.406	2.222	17.9	20.4	12 23	8 54.85	+7 23.9	2.038	2.827	14.1	21.3
1 2	8 52.07	+9 19.7	1.344	2.234	13.8	20.2	1 2	8 49.65	+7 41.6	1.964	2.838	10.9	21.1
1 12	8 44.15	+9 15.6	1.303	2.246	9.3	19.9	1 12	8 42.44	+8 14.8	1.914	2.849	7.4	20.9
1 22	8 34.39	+9 27.2	1.286	2.258	5.0	19.7	1 22	8 33.89	+9 1.6	1.890	2.860	4.1	20.7
2 1	8 24.12	+9 51.3	1.295	2.271	4.6	19.7	2 1	8 24.92	+9 58.0	1.896	2.871	3.6	20.7
2 11	8 14.82	+10 23.1	1.332	2.284	8.5	20.0	2 11	8 16.54	+10 59.2	1.932	2.881	6.6	20.9
2 21	8 7.68	+10 57.4	1.393	2.297	12.8	20.3	2 21	8 9.62	+12 0.1	1.995	2.891	10.0	21.2
3 2	8 3.48	+11 29.8	1.475	2.311	16.6	20.6	3 2	8 4.82	+12 56.7	2.083	2.900	13.1	21.4
<b>299015</b>	2004 <i>YB</i> <sub>4</sub>		1 26.0 76°92'		1.5/25.2	18	<b>110582</b>	2001 <i>TX</i> <sub>119</sub>		1 26.0 206°95'		2.9/27.4	18
12 23	8 59.29	+19 42.6	1.488	2.321	16.2	20.7	12 23	8 58.13	+11 11.0	2.118	2.911	13.4	19.5
1 2	8 53.54	+20 30.2	1.434	2.341	11.9	20.5	1 2	8 52.11	+10 45.5	2.029	2.908	10.4	19.3
1 12	8 44.99	+21 25.9	1.404	2.361	7.1	20.2	1 12	8 43.96	+10 29.6	1.964	2.904	6.9	19.1
1 22	8 34.62	+22 22.6	1.399	2.380	2.3	20.0	1 22	8 34.35	+10 22.5	1.926	2.899	3.6	18.9
2 1	8 23.82	+23 13.2	1.423	2.400	3.8	20.1	2 1	8 24.22	+10 22.9	1.919	2.894	3.5	18.9
2 11	8 14.09	+23 52.3	1.474	2.419	8.5	20.4	2 11	8 14.62	+10 28.5	1.942	2.889	6.7	19.1
2 21	8 6.61	+24 17.6	1.550	2.439	12.8	20.7	2 21	8 6.49	+10 36.9	1.992	2.883	10.3	19.3
3 2	8 2.12	+24 29.4	1.647	2.458	16.3	21.0	3 2	8 0.55	+10 45.9	2.067	2.877	13.5	19.5
<b>461745</b>	2005 <i>UE</i> <sub>134</sub>		1 26.0 154°91'		1.0/25.4	18	<b>363358</b>	2002 <i>RX</i> <sub>205</sub>		1 26.0 81°19'		2.9/27.3	18
12 23	8 57.83	+20 44.4	2.330	3.143	11.7	22.1	12 23	8 57.51	+11 1.3	1.695	2.503	15.7	21.4
1 2	8 51.69	+21 8.8	2.254	3.151	8.7	21.9	1 2	8 51.83	+11 12.8	1.636	2.524	11.9	21.2
1 12	8 43.59	+21 37.1	2.204	3.158	5.2	21.7	1 12	8 43.81	+11 38.6	1.600	2.546	7.7	21.0
1 22	8 34.20	+22 5.6	2.184	3.165	1.7	21.5	1 22	8 34.29	+12 15.6	1.591	2.567	3.5	20.8
2 1	8 24.41	+22 30.4	2.194	3.171	2.7	21.6	2 1	8 24.40	+12 59.4	1.610	2.588	3.3	20.8
2 11	8 15.21	+22 48.7	2.234	3.176	6.3	21.8	2 11	8 15.39	+13 44.9	1.658	2.609	7.2	21.1
2 21	8 7.47	+22 59.0	2.303	3.181	9.6	22.1	2 21	8 8.25	+14 27.5	1.732	2.630	11.1	21.4
3 2	8 1.82	+23 1.2	2.396	3.186	12.4	22.3	3 2	8 3.64	+15 4.3	1.829	2.650	14.5	21.6
<b>461940</b>	2006 <i>SH</i> <sub>286</sub>		1 26.0 124°12'		4.2/22.7	18	<b>381594</b>	2008 <i>UO</i> <sub>356</sub>		1 26.0 84°40'		5.0/29.0	18
12 23	8 56.41	+32 41.8	2.819	3.635	9.8	21.4	12 23	8 53.57	+3 38.8	2.171	2.943	13.9	21.5
1 2	8 50.48	+33 34.0	2.758	3.648	7.5	21.3	1 2	8 48.60	+3 13.7	2.093	2.949	11.2	21.3
1 12	8 42.78	+34 22.4	2.723	3.662	5.3	21.1	1 12	8 41.77	+3 3.8	2.037	2.956	8.2	21.2
1 22	8 33.95	+35 2.1	2.718	3.675	4.2	21.1	1 22	8 33.70	+3 9.6	2.008	2.962	5.7	21.0
2 1	8 24.79	+35 29.4	2.743	3.687	5.1	21.1	2 1	8 25.22	+3 29.8	2.008	2.968	5.2	21.0
2 11	8 16.21	+35 42.3	2.798	3.700	7.1	21.3	2 11	8 17.27	+4 1.4	2.035	2.974	7.1	21.1
2 21	8 8.96	+35 40.9	2.879	3.711	9.4	21.5	2 21	8 10.64	+4 40.2	2.090	2.980	9.9	21.3
3 2	8 3.61	+35 27.0	2.984	3.723	11.4	21.6	3 2	8 5.98	+5 22.0	2.170	2.987	12.7	21.5
<b>265822</b>	2005 <i>YS</i> <sub>1</sub>		1 26.0 11°30'		5.0/28.7	18	<b>245953</b>	2006 <i>SS</i> <sub>36</sub>		1 26.0 107°09'		4.4/23.9	18
12 23	8 51.20	+5 47.8	1.449	2.261	17.7	20.2	12 23	9 5.44	+31 19.3	2.101	2.915	12.8	20.4
1 2	8 47.65	+5 42.7	1.380	2.264	14.0	20.0	1 2	8 57.39	+31 53.9	2.049	2.941	9.7	20.2
1 12	8 41.54	+5 59.3	1.331	2.267	9.9	19.7	1 12	8 46.99	+32 23.2	2.023	2.966	6.5	20.1
1 22	8 33.67	+6 36.9	1.305	2.272	6.1	19.5	1 22	8 35.17	+32 41.5	2.026	2.991	4.5	20.0
2 1	8 25.20	+7 31.8	1.306	2.278	5.3	19.5	2 1	8 23.16	+32 44.4	2.059	3.015	5.5	20.1
2 11	8 17.47	+8 37.4	1.332	2.285	8.4	19.7	2 11	8 12.22	+32 31.1	2.121	3.038	8.2	20.3
2 21	8 11.64	+9 46.4	1.383	2.292	12.5	19.9	2 21	8 3.33	+32 3.2	2.211	3.060	11.2	20.5
3 2	8 8.49	+10 52.2	1.456	2.301	16.3	20.2	3 2	7 57.10	+31 24.1	2.323	3.082	13.7	20.8
<b>419951</b>	2011 <i>BA</i> <sub>90</sub>		1 26.0 26°05'		0.3/25.9	16	<b>160835</b>	2000 <i>YY</i> <sub>56</sub>		1 26.0 78°36'		1.5/25.2	18
12 23	8 54.60	+17 22.9	1.762	2.589	14.3	21.6	12 23	8 58.82	+19 8.7	1.517	2.3		

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2019/20		$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20		$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>381966</b>	2010	EL <sub>110</sub>	1 26.0 41°41' 7.1/31.6 18												
12 23	8	50.89	- 4 22.0	2.027	2.768	15.7	20.5	12 23	8	56.88	+18 42.8	1.610	2.441	15.3	20.5
1 2	8	46.76	- 4 21.1	1.951	2.777	13.2	20.3	1 2	8	51.93	+19 29.0	1.531	2.436	11.4	20.3
<b>495395</b>	2014	QB <sub>268</sub>	1 26.0 84°33' 5.6/29.8 18												
12 23	8	54.26	+ 1 5.5	1.821	2.592	16.2	21.1	12 23	8	53.53	+ 7 28.5	1.604	2.410	16.5	21.2
1 2	8	49.37	+ 1 12.9	1.753	2.607	13.1	21.0	1 2	8	49.27	+ 8 20.0	1.527	2.413	12.8	21.0
<b>14546</b>	1997	TM <sub>18</sub>	1 26.0 218°70' 5.3/22.7 18												
12 23	9	0.71	+32 30.6	2.139	2.960	12.4	18.6	12 23	8	49.95	+15 8.4	2.947	3.752	9.8	21.0
1 2	8	54.38	+33 29.0	2.059	2.953	9.5	18.4	1 2	8	45.64	+15 16.9	2.849	3.740	7.3	20.8
<b>466685</b>	2014	WG <sub>272</sub>	1 26.0 122°65' 3.1/27.9 18												
12 23	8	54.52	+ 8 45.0	1.961	2.758	14.3	22.1	12 23	8	59.34	+22 44.8	2.136	2.954	12.5	21.2
1 2	8	49.53	+ 8 49.9	1.883	2.762	11.1	21.9	1 2	8	52.89	+23 1.0	2.070	2.969	9.2	21.1
<b>194074</b>	2001	SO <sub>145</sub>	1 26.0 87°45' 4.0/27.9 18												
12 23	8	58.01	+ 8 13.9	1.460	2.267	17.8	20.1	12 23	8	59.85	+15 23.9	1.909	2.718	14.1	21.2
1 2	8	52.61	+ 8 8.7	1.396	2.280	13.8	19.9	1 2	8	53.86	+16 3.9	1.813	2.705	10.7	20.9
<b>284668</b>	2008	JA <sub>23</sub>	1 26.0 138°25' 1.8/27.2 18												
12 23	8	54.94	+11 9.9	2.152	2.951	13.1	21.4	12 23	8	54.41	+13 12.4	1.864	2.678	14.2	21.4
1 2	8	49.67	+11 34.0	2.075	2.959	10.0	21.2	1 2	8	49.76	+13 30.7	1.772	2.665	10.8	21.2
<b>223826</b>	2004	TS <sub>121</sub>	1 26.0 103°15' 1.2/25.3 18												
12 23	8	57.00	+21 11.7	2.021	2.843	12.9	20.6	12 23	8	56.16	+24 24.6	1.960	2.789	13.0	20.8
1 2	8	51.34	+21 34.5	1.950	2.852	9.6	20.4	1 2	8	50.92	+25 20.3	1.890	2.795	9.6	20.6
<b>464187</b>	2015	AN <sub>274</sub>	1 26.0 46°01' 2.2/24.5 18												
12 23	8	53.87	+21 20.4	1.944	2.774	13.0	20.9	12 23	8	54.27	+18 23.4	2.294	3.110	11.8	20.8
1 2	8	49.23	+22 29.8	1.874	2.780	9.6	20.7	1 2	8	49.18	+18 53.8	2.213	3.111	8.8	20.6
<b>156180</b>	2001	TP <sub>195</sub>	1 26.0 187°84' 0.7/25.6 18												
12 23	8	58.39	+16 55.7	1.801	2.619	14.5	20.8	12 23	8	58.35	+22 39.6	2.229	3.046	12.1	20.3
1 2	8	52.78	+17 54.8	1.720	2.619	10.8	20.5	1 2	8	52.28	+23 10.3	2.148	3.046	8.9	20.1
<b>83200</b>	2001	RN <sub>6</sub>	1 26.0 185°51' 1.7/24.9 18												
12 23	8	58.39	+16 55.7	1.801	2.619	14.5	20.8	12 23	8	58.35	+22 39.6	2.229	3.046	12.1	20.3
1 2	8	52.78	+17 54.8	1.720	2.619	10.8	20.5	1 2	8	52.28	+23 10.3	2.148	3.046	8.9	20.1

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2019/20		$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20		$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$						
<b>416652</b>		2004 <i>TX</i> <sub>136</sub>		1 26.0 34 <sup>o</sup> 47' 4.5"/28.0 18							<b>216411</b>		2008 <i>RR</i> <sub>51</sub>		1 26.0 190 <sup>o</sup> 43' 3.4"/29.6 18						
<b>158271</b>		2001 <i>TH</i> <sub>231</sub>		1 26.0 154 <sup>o</sup> 14' 0.6"/25.7 18							<b>140529</b>		2001 <i>TG</i> <sub>176</sub>		1 26.0 162 <sup>o</sup> 95' 0.9"/26.7 17						
<b>463447</b>		2013 <i>NX</i> <sub>19</sub>		1 26.0 276 <sup>o</sup> 94' 2.5"/27.0 18							<b>222348</b>		2000 <i>WT</i> <sub>76</sub>		1 26.0 109 <sup>o</sup> 93' 1.5"/26.9 18						
<b>502314</b>		2015 <i>BZ</i> <sub>154</sub>		1 26.0 207 <sup>o</sup> 22' 2.0"/24.9 17							<b>61992</b>		2000 <i>RN</i> <sub>33</sub>		1 26.0 88 <sup>o</sup> 88' 2.6"/24.8 18						
<b>132810</b>		2002 <i>QW</i> <sub>31</sub>		1 26.0 248 <sup>o</sup> 33' 0.3"/25.8 18							<b>277960</b>		2006 <i>SP</i> <sub>211</sub>		1 26.0 82 <sup>o</sup> 56' 1.0"/26.6 18						
<b>157180</b>		2004 <i>PH</i> <sub>71</sub>		1 26.0 241 <sup>o</sup> 75' 0.7"/25.7 18							<b>387422</b>		2013 <i>VL</i> <sub>16</sub>		1 26.0 303 <sup>o</sup> 29' 3.3"/27.9 18						
<b>492573</b>		2014 <i>OL</i> <sub>174</sub>		1 26.0 234 <sup>o</sup> 03' 2.0"/24.9 18							<b>247870</b>		2003 <i>UU</i> <sub>110</sub>		1 26.0 44 <sup>o</sup> 35' 5.0"/29.1 18						
<b>405063</b>		2001 <i>TL</i> <sub>86</sub>		1 26.0 22 <sup>o</sup> 43' 0.8"/26.3 18							<b>330446</b>		2007 <i>DW</i> <sub>106</sub>		1 26.0 60 <sup>o</sup> 57' 2.3"/27.4 18						
<b>369384</b>		2009 <i>UD</i> <sub>154</sub>		1 26.0 143 <sup>o</sup> 97' 0.8"/26.5 18							<b>421465</b>		2014 <i>OW</i> <sub>1</sub>		1 26.0 191 <sup>o</sup> 68' 1.6"/27.1 18						

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>294972</b> 2008 EK <sub>6</sub> 1 26.0 345:70 8:9/21.6 18							<b>266790</b> 2009 SR <sub>268</sub> 1 26.1 89:29 3:2/24.4 18						
12 23	8 57.32	+35 16.1	1.321	2.171	16.8	20.4	12 23	8 58.52	+26 6.3	1.892	2.721	13.4	20.8
1 2	8 53.26	+36 42.3	1.257	2.163	13.3	20.1	1 2	8 52.72	+26 43.2	1.825	2.729	10.0	20.6
1 12	8 45.50	+38 2.7	1.215	2.155	10.2	19.9	1 12	8 44.49	+27 20.8	1.783	2.736	6.3	20.4
1 22	8 35.05	+39 4.7	1.196	2.148	8.9	19.9	1 22	8 34.64	+27 53.2	1.769	2.744	3.3	20.3
2 1	8 23.62	+39 37.8	1.201	2.142	10.5	19.9	2 1	8 24.34	+28 15.1	1.783	2.752	4.6	20.4
2 11	8 13.31	+39 37.5	1.230	2.137	13.8	20.1	2 11	8 14.85	+28 23.6	1.826	2.760	8.1	20.6
2 21	8 5.82	+39 6.5	1.280	2.134	17.4	20.3	2 21	8 7.23	+28 18.5	1.895	2.767	11.6	20.8
3 2	8 2.20	+38 10.8	1.347	2.131	20.6	20.5	3 2	8 2.19	+28 1.2	1.986	2.775	14.7	21.0
<b>3433</b> Fehrenbach 1 26.1 52:47 2:0/25.3 18							<b>64339</b> 2001 US <sub>72</sub> 1 26.1 29:40 9:1/20.4 18						
12 23	9 1.19	+22 16.9	1.281	2.123	17.7	15.7	12 23	8 56.58	+33 55.7	1.299	2.153	16.8	17.7
1 2	8 55.29	+22 35.2	1.232	2.143	13.1	15.5	1 2	8 52.51	+36 13.9	1.260	2.167	13.2	17.6
1 12	8 46.22	+22 58.1	1.204	2.162	7.9	15.2	1 12	8 44.90	+38 25.7	1.244	2.183	10.1	17.4
1 22	8 35.13	+23 19.2	1.201	2.182	2.7	15.0	1 22	8 34.84	+40 16.3	1.253	2.200	9.2	17.4
2 1	8 23.67	+23 32.3	1.225	2.203	4.3	15.1	2 1	8 24.05	+41 34.1	1.286	2.218	10.8	17.6
2 11	8 13.58	+23 34.3	1.275	2.223	9.3	15.5	2 11	8 14.53	+42 14.8	1.344	2.237	13.9	17.8
2 21	8 6.14	+23 24.7	1.349	2.244	13.9	15.8	2 21	8 7.81	+42 20.9	1.421	2.257	17.0	18.0
3 2	8 2.07	+23 5.2	1.443	2.265	17.6	16.1	3 2	8 4.77	+41 58.9	1.517	2.277	19.7	18.3
<b>400844</b> 2010 LE <sub>107</sub> 1 26.1 221:35 0:6/26.4 18							<b>80809</b> 2000 CX <sub>114</sub> 1 26.1 58:15 1:8/27.3 18						
12 23	8 57.80	+14 54.7	1.928	2.738	13.9	22.2	12 23	8 55.50	+ 8 36.0	1.463	2.276	17.4	19.7
1 2	8 52.26	+15 25.9	1.836	2.730	10.5	22.0	1 2	8 50.78	+ 9 55.4	1.407	2.298	13.2	19.5
1 12	8 44.32	+16 8.5	1.769	2.720	6.5	21.7	1 12	8 43.44	+11 37.2	1.372	2.320	8.4	19.3
1 22	8 34.64	+16 58.8	1.729	2.710	2.1	21.4	1 22	8 34.35	+13 34.5	1.364	2.342	3.4	19.1
2 1	8 24.22	+17 51.7	1.719	2.699	2.7	21.4	2 1	8 24.76	+15 37.2	1.385	2.365	3.1	19.1
2 11	8 14.29	+18 42.1	1.739	2.688	7.2	21.7	2 11	8 16.07	+17 34.8	1.434	2.388	7.8	19.4
2 21	8 5.94	+19 25.8	1.786	2.676	11.3	21.9	2 21	8 9.41	+19 19.2	1.509	2.410	12.3	19.7
3 2	8 0.02	+20 0.5	1.856	2.664	14.9	22.1	3 2	8 5.54	+20 45.7	1.608	2.433	16.0	20.0
<b>176689</b> 2002 PY <sub>133</sub> 1 26.1 113:60 2:5/24.8 18							<b>11295</b> Gustafsson 1 26.1 175:26 0:6/25.6 18						
12 23	9 1.75	+24 44.3	1.928	2.749	13.5	20.9	12 23	8 53.30	+19 37.2	2.992	3.800	9.5	18.8
1 2	8 54.92	+25 14.1	1.867	2.767	10.0	20.7	1 2	8 48.08	+20 2.3	2.908	3.802	7.0	18.6
1 12	8 45.70	+25 45.0	1.831	2.784	6.1	20.5	1 12	8 41.39	+20 31.3	2.851	3.804	4.2	18.5
1 22	8 34.97	+26 11.4	1.823	2.801	2.8	20.3	1 22	8 33.71	+21 1.4	2.824	3.805	1.3	18.2
2 1	8 23.88	+26 28.6	1.845	2.817	4.0	20.4	2 1	8 25.69	+21 29.7	2.828	3.806	2.1	18.3
2 11	8 13.71	+26 34.2	1.897	2.833	7.7	20.7	2 11	8 18.06	+21 53.9	2.864	3.807	5.0	18.5
2 21	8 5.47	+26 28.0	1.975	2.849	11.2	20.9	2 21	8 11.46	+22 12.1	2.928	3.807	7.8	18.7
3 2	7 59.83	+26 11.4	2.076	2.863	14.2	21.2	3 2	8 6.39	+22 23.9	3.018	3.806	10.2	18.9
<b>427170</b> 2014 UU <sub>199</sub> 1 26.1 162:88 3:0/24.1 18							<b>454870</b> 2015 TB <sub>57</sub> 1 26.1 209:04 3:5/27.6 18						
12 23	9 0.04	+27 0.0	2.436	3.250	11.2	22.0	12 23	8 59.83	+ 9 46.1	1.561	2.366	16.9	21.8
1 2	8 53.41	+27 43.5	2.362	3.258	8.4	21.8	1 2	8 54.15	+ 9 37.0	1.477	2.362	13.2	21.6
1 12	8 44.73	+28 26.9	2.315	3.265	5.3	21.6	1 12	8 45.63	+ 9 43.8	1.415	2.357	8.9	21.3
1 22	8 34.69	+29 4.9	2.298	3.271	3.1	21.5	1 22	8 35.06	+10 5.3	1.379	2.352	4.6	21.1
2 1	8 24.23	+29 33.1	2.311	3.276	4.2	21.6	2 1	8 23.68	+10 38.4	1.370	2.346	4.2	21.0
2 11	8 14.38	+29 48.8	2.355	3.280	7.1	21.8	2 11	8 12.97	+11 18.0	1.389	2.340	8.4	21.2
2 21	8 6.04	+29 51.6	2.427	3.284	10.0	22.0	2 21	8 4.24	+11 59.1	1.434	2.333	12.9	21.5
3 2	7 59.83	+29 42.7	2.522	3.286	12.6	22.1	3 2	7 58.41	+12 37.4	1.501	2.326	16.9	21.7
<b>44434</b> 1998 UD <sub>4</sub> 1 26.1 181:48 2:8/24.4 18							<b>508147</b> 2015 FM <sub>64</sub> 1 26.1 356:58 1:8/26.9 18						
12 23	9 0.82	+23 13.1	1.824	2.648	14.0	18.7	12 23	8 53.85	+14 11.9	1.830	2.649	14.2	20.2
1 2	8 54.65	+24 14.6	1.748	2.649	10.4	18.5	1 2	8 49.26	+13 56.0	1.750	2.646	10.8	20.0
1 12	8 45.81	+25 21.4	1.696	2.650	6.4	18.3	1 12	8 42.43	+13 49.5	1.694	2.643	6.9	19.8
1 22	8 35.07	+26 26.3	1.672	2.650	3.0	18.0	1 22	8 34.07	+13 50.6	1.663	2.642	2.9	19.5
2 1	8 23.63	+27 22.0	1.679	2.649	4.6	18.1	2 1	8 25.19	+13 57.1	1.662	2.641	3.0	19.5
2 11	8 12.88	+28 3.2	1.714	2.648	8.6	18.4	2 11	8 16.94	+14 5.9	1.688	2.641	7.0	19.8
2 21	8 4.04	+28 28.2	1.775	2.646	12.4	18.6	2 21	8 10.31	+14 14.5	1.740	2.641	10.9	20.0
3 2	7 57.97	+28 37.7	1.859	2.643	15.7	18.8	3 2	8 6.02	+14 20.8	1.816	2.642	14.3	20.2
<b>42309</b> 2001 VO <sub>86</sub> 1 26.1 71:72 1:2/26.6 18							<b>120974</b> 1998 WW <sub>8</sub> 1 26.1 316:20 4:4/23.9 18						
12 23	9 0.16	+13 49.6	1.388	2.212	17.7	18.4	12 23	8 55.77	+24 23.0	1.235	2.090	17.4	18.6
1 2	8 54.21	+14 16.8	1.340	2.239	13.2	18.2	1 2	8 52.17	+25 27.8	1.154	2.071	13.1	18.3
1 12	8 45.44	+14 58.3	1.313	2.265	8.1	17.9	1 12	8 44.98	+26 41.4	1.093	2.052	8.3	17.9
1 22	8 34.90	+15 48.7	1.312	2.292	2.8	17.7	1 22	8 34.99	+27 54.2	1.057	2.034	4.5	17.7
2 1	8 24.02	+16 41.5	1.338	2.318	3.2	17.8	2 1	8 23.71	+28 55.0	1.046	2.017	6.6	17.7
2 11	8 14.32	+17 30.4	1.392	2.345	8.2	18.1	2 11	8 13.16	+29 35.2	1.059	2.000	11.7	17.9
2 21	8 6.95	+18 11.2	1.471	2.370	12.6	18.5	2 21	8 5.14	+29 51.9	1.093	1.983	16.8	18.2
3 2	8 2.61	+18 41.7	1.572	2.396	16.3	18.8	3 2	8 0.92	+29 46.4	1.146	1.968	21.2	18.4
<b>334619</b> 2002 UA <sub>73</sub> 1 26.1 104:86 0:3/25.9 18							<b>86870</b> 2000 HK <sub>20</sub> 1 26.1 140:79 3:5/27.8 18						
12 23	8 54.71	+18 26.3	2.324	3.139	11.7	21.1	12 23	8 59.01	+ 8 50.0	1.728	2.524	15.9	20.4
1 2	8 49.43	+18 46.3	2.251	3.148	8.7	20.9	1 2	8 53.12	+ 8 44.8	1.654	2.534	12.3	20.1
1 12	8 42.30	+19 11.8	2.203	3.157	5.2	20.7	1 12	8 44.77	+ 8 55.0	1.604	2.542	8.3	19.9
1 22	8 33.98	+19 39.7	2.184	3.165	1.5	20.5	1 22	8 34.76	+ 9 19.3	1.579	2.550	4.5	19.7
2 1	8 25.29	+20 6.5	2.194	3.174	2.3	20.6	2 1	8 24.22	+ 9 54.3	1.583	2.558	4.1	19.7
2 11	8 17.16	+20 29.1	2.235	3.182	6.0	20.8	2 11	8 14.41	+10 35.4	1.616	2.565	7.6	19.9
2 21	8 10.39	+20 45.7	2.304	3.190	9.3	21.0	2 21	8 6.43	+11 17.8	1.675	2.572	11.5	20.2
3 2	8 5.57	+20 55.4	2.397	3.198	12.1	21.3	3 2	8 1.03	+11 57.5	1.758	2.578	15.0	20.4
<b>90199</b> 2003 AY <sub>62</sub> 1 26.1 36:82 1:2/25.2 18							<b>448124</b> 2008 RG <sub>128</sub> 1 26.1 58:98 1:4/26.7 17						
12 23	8 53.07	+19 47.8	2.071	2.897	12.5	19.9	12 23	8 58.88	+14 9.3	1.260	2.093	18.5	21.5
1 2	8 48.49	+20 33.4	2.000	2.903	9.2	19.7	1 2	8 53.60	+14 22.6	1.207	2.111	14.0	21.2
1 12	8 41.87	+21 25.4	1.953	2.910	5.5	19.5	1 12	8 45.26	+14 50.8	1.174	2.128	8.7	21.0
1 22	8 33.87	+22 19.2	1.935	2.916	1.8	19.3	1 22	8 34.91	+15 29.4	1.166	2.147	3.1	20.7
2 1	8 25.42	+23 9.6	1.946	2.923	3.0	19.4	2 1	8 24.08	+16 12.0	1.184	2.165	3.4	20.8
2 11	8 17.56	+23 52.1	1.987	2.931	6.8	19.6	2 11	8 14.43	+16 52.5	1.229	2.183	8.7	21.1
2 21	8 11.19	+24 24.3	2.053	2.938	10.3	19.9	2 21	8 7.26	+17 26.3	1.297	2.202	13.5	21.5
3 2	8 6.95	+24 45.2	2.144	2.946	13.3	20.1	3 2	8 3.33	+17 50.9	1.386	2.221	17.5	21.8

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>406142</b>	2006 <i>VM</i> <sub>116</sub>		1 26.1 80°40	4.5/28.6	18		<b>234773</b>	2002 <i>PE</i> <sub>111</sub>		1 26.1 49°73	5.2/29.1	18	
12 23	8 56.94	+ 5 58.9	1.756	2.545	16.0	20.6	12 23	8 53.46	+ 3 47.7	1.982	2.761	14.8	19.7
1 2	8 51.39	+ 5 49.2	1.695	2.566	12.6	20.4	1 2	8 48.72	+ 3 23.7	1.910	2.771	11.9	19.5
1 12	8 43.61	+ 5 57.0	1.656	2.587	8.8	20.3	1 12	8 41.99	+ 3 16.4	1.860	2.781	8.7	19.4
1 22	8 34.39	+ 6 21.3	1.643	2.607	5.4	20.1	1 22	8 33.95	+ 3 26.1	1.836	2.791	6.0	19.2
2 1	8 24.82	+ 6 59.0	1.658	2.628	4.7	20.1	2 1	8 25.50	+ 3 51.2	1.840	2.802	5.3	19.2
2 11	8 16.04	+ 7 45.3	1.701	2.648	7.5	20.3	2 11	8 17.65	+ 4 28.0	1.871	2.813	7.4	19.3
2 21	8 9.03	+ 8 34.9	1.771	2.668	11.0	20.6	2 21	8 11.25	+ 5 11.9	1.930	2.824	10.4	19.5
3 2	8 4.42	+ 9 23.2	1.865	2.688	14.1	20.8	3 2	8 6.95	+ 5 58.1	2.012	2.835	13.3	19.8
<b>306371</b>	4282 <i>T</i> <sub>-2</sub>		1 26.1 93°73	4.2/24.1	18		<b>397928</b>	2008 <i>WP</i> <sub>37</sub>		1 26.1 272°71	3°7/27.6	18	
12 23	9 2.33	+27 25.4	1.630	2.462	15.1	20.9	12 23	8 57.34	+ 9 48.2	1.565	2.374	16.7	21.3
1 2	8 55.81	+28 15.8	1.576	2.479	11.2	20.7	1 2	8 52.43	+ 9 33.8	1.472	2.359	13.1	21.1
1 12	8 46.44	+29 5.6	1.545	2.497	7.2	20.5	1 12	8 44.70	+ 9 34.9	1.401	2.343	8.9	20.8
1 22	8 35.24	+29 47.0	1.541	2.514	4.3	20.3	1 22	8 34.85	+ 9 50.9	1.355	2.328	4.8	20.5
2 1	8 23.62	+30 13.5	1.566	2.531	5.7	20.4	2 1	8 24.06	+10 19.4	1.336	2.312	4.4	20.4
2 11	8 13.11	+30 22.1	1.618	2.548	9.3	20.7	2 11	8 13.79	+10 55.6	1.344	2.295	8.5	20.6
2 21	8 4.91	+30 13.5	1.695	2.564	13.0	21.0	2 21	8 5.37	+11 34.7	1.377	2.279	13.1	20.9
3 2	7 59.75	+29 50.6	1.794	2.580	16.1	21.2	3 2	7 59.81	+12 12.0	1.432	2.263	17.3	21.1
<b>280721</b>	2005 <i>GX</i> <sub>139</sub>		1 26.1 156°53	6°6/1.5	18		<b>331198</b>	2011 <i>BY</i> <sub>4</sub>		1 26.1 246°21	1°5/26.8	18	
12 23	8 51.50	- 9 17.6	3.245	3.920	11.5	21.8	12 23	8 56.83	+14 12.6	2.139	2.944	13.0	20.9
1 2	8 46.61	- 9 37.9	3.159	3.928	10.0	21.7	1 2	8 51.29	+14 6.0	2.044	2.932	9.9	20.6
1 12	8 40.45	- 9 41.4	3.096	3.935	8.4	21.6	1 12	8 43.63	+14 7.8	1.973	2.921	6.3	20.4
1 22	8 33.45	- 9 27.3	3.058	3.942	7.1	21.5	1 22	8 34.46	+14 16.1	1.931	2.909	2.5	20.1
2 1	8 26.16	- 8 55.8	3.047	3.949	6.6	21.5	2 1	8 24.70	+14 28.4	1.918	2.897	2.7	20.1
2 11	8 19.19	- 8 9.0	3.065	3.955	7.0	21.5	2 11	8 15.40	+14 42.0	1.935	2.885	6.5	20.3
2 21	8 13.08	- 7 10.5	3.110	3.960	8.3	21.6	2 21	8 7.51	+14 54.4	1.980	2.872	10.2	20.5
3 2	8 8.30	- 6 4.3	3.182	3.965	9.8	21.7	3 2	8 1.78	+15 3.9	2.048	2.859	13.5	20.7
<b>72030</b>	2000 <i>XK</i> <sub>33</sub>		1 26.1 38°20	9°3/21.4	18		<b>463208</b>	2012 <i>CH</i> <sub>47</sub>		1 26.1 283°77	0°4/26.3	18	
12 23	9 3.06	+38 9.4	1.490	2.324	16.1	18.9	12 23	8 54.44	+14 34.7	1.764	2.584	14.6	21.4
1 2	8 57.20	+39 37.8	1.435	2.327	13.0	18.7	1 2	8 50.03	+15 19.8	1.672	2.571	11.0	21.2
1 12	8 47.71	+40 56.2	1.402	2.331	10.3	18.5	1 12	8 43.12	+16 19.3	1.604	2.557	6.8	20.9
1 22	8 35.69	+41 52.8	1.394	2.334	9.3	18.5	1 22	8 34.38	+17 28.6	1.563	2.544	2.1	20.5
2 1	8 22.91	+42 18.4	1.411	2.338	10.6	18.6	2 1	8 24.81	+18 41.5	1.550	2.531	2.8	20.6
2 11	8 11.41	+42 10.7	1.453	2.342	13.3	18.7	2 11	8 15.70	+19 51.3	1.566	2.517	7.6	20.8
2 21	8 2.77	+41 33.4	1.516	2.346	16.4	18.9	2 21	8 8.22	+20 52.5	1.609	2.504	12.0	21.1
3 2	7 57.92	+40 33.6	1.597	2.350	19.2	19.1	3 2	8 3.28	+21 41.8	1.674	2.490	15.8	21.3
<b>428897</b>	2008 <i>UY</i> <sub>353</sub>		1 26.1 121°56	3°1/27.9	18		<b>148789</b>	2001 <i>UX</i> <sub>47</sub>		1 26.1 15°85	8°6/20.8	18	
12 23	8 54.68	+ 8 49.5	2.316	3.103	12.6	21.6	12 23	8 57.47	+35 16.6	1.479	2.323	15.7	19.0
1 2	8 49.37	+ 8 35.3	2.237	3.110	9.8	21.5	1 2	8 53.01	+37 7.6	1.425	2.326	12.4	18.8
1 12	8 42.28	+ 8 32.4	2.182	3.117	6.7	21.3	1 12	8 45.20	+38 52.7	1.395	2.330	9.6	18.7
1 22	8 34.01	+ 8 39.9	2.155	3.124	3.8	21.1	1 22	8 35.00	+40 19.6	1.389	2.335	8.7	18.6
2 1	8 25.36	+ 8 56.1	2.158	3.130	3.5	21.1	2 1	8 23.98	+41 18.1	1.409	2.340	10.2	18.7
2 11	8 17.23	+ 9 18.0	2.190	3.137	6.1	21.3	2 11	8 14.01	+41 43.9	1.454	2.346	13.1	18.9
2 21	8 10.39	+ 9 42.9	2.251	3.143	9.2	21.5	2 21	8 6.61	+41 38.9	1.519	2.353	16.2	19.1
3 2	8 5.43	+10 7.8	2.336	3.149	12.0	21.7	3 2	8 2.71	+41 8.5	1.603	2.360	18.9	19.4
<b>254725</b>	2005 <i>NP</i> <sub>64</sub>		1 26.1 281°90	1°9/26.9	18		<b>20293</b>	Sirichelson		1 26.1 117°86	1°8/25.1	18	
12 23	8 56.72	+13 40.5	1.750	2.564	15.0	20.9	12 23	9 0.62	+21 53.6	1.856	2.677	13.9	18.6
1 2	8 51.70	+13 34.8	1.654	2.548	11.5	20.6	1 2	8 54.21	+22 32.0	1.793	2.694	10.3	18.4
1 12	8 44.12	+13 39.9	1.582	2.531	7.4	20.3	1 12	8 45.37	+23 14.7	1.755	2.710	6.2	18.2
1 22	8 34.64	+13 54.1	1.536	2.515	3.1	20.0	1 22	8 34.95	+23 55.9	1.745	2.726	2.3	17.9
2 1	8 24.35	+14 14.2	1.519	2.498	3.2	20.0	2 1	8 24.11	+24 30.4	1.765	2.741	3.6	18.1
2 11	8 14.55	+14 36.5	1.529	2.481	7.6	20.2	2 11	8 14.14	+24 54.3	1.814	2.755	7.6	18.3
2 21	8 6.45	+14 57.5	1.566	2.465	12.1	20.5	2 21	8 6.07	+25 6.3	1.890	2.769	11.4	18.6
3 2	8 0.94	+15 14.7	1.625	2.448	15.9	20.7	3 2	8 0.60	+25 7.1	1.989	2.782	14.5	18.8
<b>134847</b>	2000 <i>KF</i> <sub>48</sub>		1 26.1 151°06	5°1/30.3	18		<b>16314</b>	1248 <i>T</i> <sub>-1</sub>		1 26.1 334°41	2°0/27.2	18	
12 23	8 52.34	- 1 39.0	3.062	3.788	11.2	20.4	12 23	8 52.79	+12 17.2	2.040	2.849	13.3	18.0
1 2	8 47.27	- 1 58.1	2.978	3.797	9.3	20.3	1 2	8 48.33	+12 16.5	1.953	2.843	10.2	17.8
1 12	8 40.86	- 2 3.4	2.917	3.805	7.3	20.2	1 12	8 41.84	+12 26.5	1.890	2.837	6.6	17.5
1 22	8 33.57	- 1 54.3	2.884	3.813	5.6	20.1	1 22	8 33.94	+12 45.7	1.854	2.831	3.0	17.3
2 1	8 26.00	- 1 31.7	2.881	3.820	5.1	20.0	2 1	8 25.51	+13 11.2	1.847	2.826	2.9	17.3
2 11	8 18.77	- 0 57.7	2.907	3.827	6.1	20.1	2 11	8 17.58	+13 39.6	1.869	2.821	6.5	17.5
2 21	8 12.47	- 0 15.5	2.961	3.834	7.9	20.2	2 21	8 11.05	+14 7.4	1.918	2.817	10.2	17.7
3 2	8 7.56	+ 0 31.3	3.041	3.840	9.9	20.4	3 2	8 6.62	+14 32.0	1.990	2.812	13.4	17.9
<b>24738</b>	1992 <i>EK</i> <sub>14</sub>		1 26.1 101°53	1°0/25.5	18		<b>432080</b>	2008 <i>YD</i> <sub>138</sub>		1 26.1 41°71	2°6/27.2	18	
12 23	9 0.66	+20 14.2	1.938	2.754	13.6	18.5	12 23	8 57.41	+13 6.0	1.831	2.640	14.6	20.1
1 2	8 54.01	+20 39.8	1.880	2.778	10.1	18.3	1 2	8 51.67	+12 30.6	1.768	2.657	11.1	20.0
1 12	8 45.13	+21 10.1	1.847	2.801	6.0	18.1	1 12	8 43.75	+12 4.6	1.728	2.674	7.2	19.8
1 22	8 34.83	+21 40.6	1.843	2.824	1.8	17.9	1 22	8 34.46	+11 47.1	1.716	2.692	3.5	19.6
2 1	8 24.24	+22 6.7	1.868	2.846	3.0	18.0	2 1	8 24.86	+11 36.8	1.733	2.710	3.4	19.6
2 11	8 14.54	+22 25.2	1.924	2.868	7.0	18.3	2 11	8 16.09	+11 31.4	1.778	2.728	6.9	19.8
2 21	8 6.66	+22 35.0	2.006	2.889	10.6	18.6	2 21	8 9.07	+11 28.9	1.850	2.747	10.6	20.1
3 2	8 1.25	+22 36.0	2.112	2.909	13.6	18.8	3 2	8 4.42	+11 27.1	1.945	2.766	13.7	20.3
<b>348622</b>	2005 <i>YP</i> <sub>65</sub>		1 26.1 41°01	1°4/25.4	18		<b>275605</b>	1999 <i>XH</i> <sub>16</sub>		1 26.1 8°79	9°9/21.1	18	
12 23	8 57.68	+19 19.8	1.207	2.055	18.2	20.7	12 23						

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>282625</b>	2005 <i>LL</i> <sub>28</sub>		1 26.1 150°29	0°2/25.9	18		<b>193799</b>	2001 <i>PE</i> <sub>12</sub>		1 26.1 119°38	2°0/24.9	18	
12 23	8 52.44	+16 23.1	2.857	3.662	10.0	21.0	12 23	9 1.05	+20 37.3	1.692	2.516	15.0	21.2
1 2	8 47.54	+17 15.2	2.776	3.668	7.4	20.9	1 2	8 54.78	+21 39.1	1.631	2.533	11.0	21.0
1 12	8 41.13	+18 14.4	2.723	3.674	4.5	20.7	1 12	8 45.85	+22 47.9	1.594	2.550	6.6	20.7
1 22	8 33.70	+19 17.2	2.699	3.680	1.3	20.5	1 22	8 35.15	+23 56.5	1.586	2.566	2.5	20.5
2 1	8 25.90	+20 19.7	2.707	3.686	2.0	20.5	2 1	8 23.93	+24 57.5	1.606	2.581	4.0	20.7
2 11	8 18.46	+21 18.1	2.746	3.691	5.1	20.8	2 11	8 13.62	+25 45.4	1.656	2.596	8.3	20.9
2 21	8 12.05	+22 9.5	2.815	3.696	8.0	20.9	2 21	8 5.36	+26 17.9	1.732	2.610	12.2	21.2
3 2	8 7.19	+22 52.3	2.909	3.700	10.4	21.1	3 2	7 59.92	+26 35.6	1.830	2.624	15.5	21.5
<b>175277</b>	2005 <i>JB</i> <sub>180</sub>		1 26.1 122°58	2°2/27.9	18		<b>127820</b>	2003 <i>FV</i> <sub>90</sub>		1 26.1 305°97	1°6/25.5	18	
12 23	8 56.94	+ 6 2.8	1.934	2.717	14.9	20.2	12 23	9 0.53	+22 1.6	1.392	2.230	16.8	19.9
1 2	8 51.48	+ 7 31.8	1.855	2.728	11.5	20.0	1 2	8 55.11	+22 7.7	1.314	2.222	12.6	19.6
1 12	8 43.79	+ 9 22.8	1.800	2.739	7.6	19.8	1 12	8 46.43	+22 18.4	1.257	2.215	7.7	19.3
1 22	8 34.53	+11 30.6	1.774	2.749	3.5	19.6	1 22	8 35.40	+22 28.4	1.226	2.207	2.6	18.9
2 1	8 24.68	+13 46.9	1.780	2.759	2.9	19.6	2 1	8 23.51	+22 32.3	1.221	2.200	4.0	19.0
2 11	8 15.37	+16 2.1	1.818	2.768	6.8	19.8	2 11	8 12.53	+22 26.4	1.244	2.193	9.4	19.3
2 21	8 7.60	+18 7.8	1.886	2.778	10.7	20.1	2 21	8 3.95	+22 10.1	1.290	2.186	14.3	19.6
3 2	8 2.14	+19 58.5	1.979	2.786	14.1	20.3	3 2	7 58.76	+21 44.7	1.356	2.179	18.5	19.8
<b>351616</b>	2005 <i>WQ</i> <sub>98</sub>		1 26.1 58°05	2°2/26.9	17		<b>419419</b>	2010 <i>AR</i> <sub>103</sub>		1 26.1 293°10	2°5/24.7	17	
12 23	9 1.84	+14 13.6	1.214	2.045	19.2	20.4	12 23	8 56.37	+25 22.8	2.166	2.992	12.1	20.9
1 2	8 55.74	+13 56.6	1.167	2.068	14.5	20.1	1 2	8 51.07	+25 46.0	2.076	2.978	9.0	20.7
1 12	8 46.50	+13 53.2	1.140	2.092	9.1	19.9	1 12	8 43.56	+26 10.4	2.011	2.965	5.6	20.4
1 22	8 35.30	+14 0.4	1.137	2.116	3.7	19.7	1 22	8 34.49	+26 31.3	1.974	2.952	2.7	20.2
2 1	8 23.77	+14 14.0	1.160	2.140	3.7	19.7	2 1	8 24.84	+26 44.6	1.967	2.939	3.9	20.3
2 11	8 13.62	+14 29.4	1.210	2.165	8.9	20.1	2 11	8 15.72	+26 47.5	1.989	2.926	7.4	20.5
2 21	8 6.13	+14 43.1	1.284	2.189	13.6	20.4	2 21	8 8.12	+26 39.1	2.037	2.913	10.8	20.6
3 2	8 2.00	+14 52.7	1.378	2.214	17.6	20.7	3 2	8 2.78	+26 20.4	2.109	2.900	13.9	20.8
<b>104686</b>	2000 <i>GQ</i> <sub>154</sub>		1 26.1 281°58	1°4/26.7	18		<b>233965</b>	2010 <i>AM</i> <sub>59</sub>		1 26.1 287°01	1°2/25.5	18	
12 23	8 57.03	+14 51.2	1.748	2.566	14.9	19.9	12 23	8 56.90	+18 6.6	1.387	2.225	16.9	20.1
1 2	8 51.88	+14 46.1	1.660	2.555	11.3	19.6	1 2	8 52.51	+18 58.9	1.305	2.214	12.7	19.9
1 12	8 44.19	+14 50.9	1.594	2.545	7.1	19.4	1 12	8 44.95	+20 5.1	1.246	2.204	7.7	19.5
1 22	8 34.69	+15 3.2	1.555	2.535	2.7	19.1	1 22	8 35.01	+21 18.4	1.211	2.193	2.4	19.2
2 1	8 24.46	+15 19.8	1.545	2.524	3.0	19.1	2 1	8 24.03	+22 30.0	1.204	2.183	4.0	19.3
2 11	8 14.82	+15 37.0	1.562	2.514	7.5	19.3	2 11	8 13.73	+23 31.6	1.223	2.172	9.5	19.5
2 21	8 6.92	+15 51.9	1.606	2.504	11.8	19.5	2 21	8 5.63	+24 18.2	1.266	2.162	14.5	19.8
3 2	8 1.61	+16 2.5	1.672	2.494	15.6	19.8	3 2	8 0.81	+24 48.0	1.330	2.152	18.8	20.0
<b>174707</b>	2003 <i>UP</i> <sub>103</sub>		1 26.1 142°38	1°3/25.2	18		<b>422310</b>	2014 <i>SJ</i> <sub>164</sub>		1 26.1 97°12	2°2/24.8	18	
12 23	8 59.46	+20 11.3	2.103	2.917	12.8	21.4	12 23	8 59.58	+22 51.6	1.936	2.758	13.4	21.8
1 2	8 53.17	+20 58.2	2.033	2.931	9.5	21.2	1 2	8 53.33	+23 37.9	1.880	2.781	9.9	21.6
1 12	8 44.71	+21 50.8	1.989	2.943	5.7	21.0	1 12	8 44.80	+24 27.4	1.848	2.803	6.0	21.4
1 22	8 34.79	+22 43.9	1.974	2.955	1.9	20.8	1 22	8 34.81	+25 14.3	1.845	2.824	2.5	21.3
2 1	8 24.42	+23 32.2	1.990	2.966	3.1	20.9	2 1	8 24.48	+25 53.1	1.872	2.845	3.8	21.4
2 11	8 14.71	+24 11.5	2.035	2.976	6.9	21.1	2 11	8 15.00	+26 20.3	1.928	2.866	7.5	21.7
2 21	8 6.64	+24 39.7	2.109	2.986	10.4	21.4	2 21	8 7.35	+26 34.7	2.011	2.886	11.0	21.9
3 2	8 0.87	+24 56.7	2.206	2.994	13.4	21.6	3 2	8 2.17	+26 37.2	2.117	2.906	13.9	22.1
<b>58271</b>	1993 <i>TT</i> <sub>22</sub>		1 26.1 197°30	3°3/27.9	18		<b>67918</b>	2000 <i>WW</i> <sub>109</sub>		1 26.1 221°60	2°0/25.0	18	
12 23	8 57.27	+ 8 23.1	1.835	2.629	15.2	19.6	12 23	9 0.53	+22 44.3	2.006	2.825	13.2	19.7
1 2	8 51.88	+ 8 29.4	1.749	2.627	11.9	19.3	1 2	8 54.32	+23 17.1	1.916	2.815	9.8	19.5
1 12	8 44.11	+ 8 51.7	1.686	2.624	8.0	19.1	1 12	8 45.62	+23 53.9	1.851	2.805	6.0	19.2
1 22	8 34.66	+ 9 28.5	1.650	2.621	4.3	18.9	1 22	8 35.13	+24 29.7	1.814	2.793	2.4	19.0
2 1	8 24.55	+10 16.3	1.642	2.618	3.8	18.8	2 1	8 23.92	+24 59.0	1.807	2.782	3.7	19.1
2 11	8 15.00	+11 10.0	1.664	2.614	7.4	19.0	2 11	8 13.27	+25 18.0	1.830	2.769	7.7	19.3
2 21	8 7.07	+12 4.4	1.712	2.609	11.3	19.2	2 21	8 4.30	+25 25.3	1.880	2.756	11.6	19.5
3 2	8 1.58	+12 55.2	1.784	2.604	14.8	19.5	3 2	7 57.87	+25 21.3	1.952	2.742	14.9	19.7
<b>31899</b>	Adityamohan		1 26.1 166°25	2°0/25.0	18		<b>412055</b>	2013 <i>ES</i> <sub>21</sub>		1 26.1 253°58	2°1/25.1	17	
12 23	9 1.13	+21 54.6	1.821	2.643	14.2	20.4	12 23	9 0.58	+22 56.6	1.785	2.611	14.2	21.9
1 2	8 54.81	+22 37.3	1.747	2.648	10.5	20.2	1 2	8 54.68	+23 21.5	1.693	2.595	10.7	21.7
1 12	8 45.89	+23 25.2	1.698	2.652	6.4	20.0	1 12	8 46.00	+23 50.4	1.625	2.580	6.6	21.4
1 22	8 35.17	+24 12.3	1.676	2.656	2.4	19.7	1 22	8 35.28	+24 18.1	1.584	2.564	2.6	21.1
2 1	8 23.85	+24 52.4	1.684	2.659	3.8	19.8	2 1	8 23.69	+24 38.9	1.572	2.547	4.0	21.2
2 11	8 13.29	+25 21.2	1.721	2.661	8.0	20.1	2 11	8 12.70	+24 48.8	1.588	2.530	8.4	21.4
2 21	8 4.64	+25 37.1	1.785	2.663	12.0	20.3	2 21	8 3.59	+24 46.6	1.631	2.512	12.7	21.6
3 2	7 58.71	+25 40.4	1.871	2.664	15.3	20.5	3 2	7 57.31	+24 33.0	1.695	2.495	16.4	21.8
<b>254048</b>	2004 <i>GN</i> <sub>31</sub>		1 26.1 328°13	3°5/24.4	18		<b>225302</b>	1995 <i>VU</i> <sub>9</sub>		1 26.1 13°92	6°1/23.2	18	
12 23	8 55.80	+24 34.0	1.463	2.309	15.7	20.4	12 23	8 56.50	+30 44.6	1.403	2.253	16.0	20.2
1 2	8 51.58	+25 21.8	1.384	2.297	11.8	20.1	1 2	8 52.09	+31 43.5	1.347	2.257	12.2	19.9
1 12	8 44.30	+26 14.6	1.328	2.285	7.4	19.8	1 12	8 44.51	+32 39.2	1.313	2.263	8.4	19.7
1 22	8 34.78	+27 4.9	1.297	2.275	3.7	19.6	1 22	8 34.80	+33 22.6	1.303	2.270	6.1	19.6
2 1	8 24.36	+27 44.7	1.293	2.264	5.4	19.7	2 1	8 24.49	+33 45.9	1.320	2.278	7.6	19.7
2 11	8 14.70	+28 8.4	1.314	2.255	9.9	19.9	2 11	8 15.32	+33 45.8	1.361	2.287	11.1	20.0
2 21	8 7.23	+28 14.3	1.359	2.246	14.4	20.1	2 21	8 8.62	+33 23.7	1.425	2.297	14.8	20.2
3 2	8 2.94	+28 3.5	1.425	2.238	18.3	20.4	3 2	8 5.21	+32 43.8	1.509	2.308	18.1	20.4
<b>319556</b>	2006 <i>SA</i> <sub>20</sub>		1 26.1 69°95	5°1/23.9	18		<b>196701</b>	2003 <i>SC</i> <sub>82</sub>		1 26.1 56°11	2°2/27.5	18	
12 23	9 3.98	+30 28.7	1.597	2.428	15.3	21.4							

EPHEMERIDES

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>379080</b>	2008 <i>WG</i> <sub>133</sub>		1 26.1 82°41	1.7/24.9	18		<b>499473</b>	2010 <i>JA</i> <sub>9</sub>		1 26.1 2°07	0.1/26.1	18	
12 23	8 55.02	+21 50.6	2.188	3.012	12.0	20.9	12 23	8 52.79	+15 38.7	1.905	2.728	13.6	21.2
1 2	8 49.83	+22 36.3	2.123	3.025	8.9	20.7	1 2	8 48.53	+16 27.5	1.827	2.727	10.2	20.9
1 12	8 42.67	+23 26.1	2.083	3.038	5.3	20.5	1 12	8 42.09	+17 27.8	1.773	2.727	6.2	20.7
1 22	8 34.21	+24 15.1	2.071	3.051	2.1	20.3	1 22	8 34.11	+18 35.1	1.745	2.727	1.8	20.4
2 1	8 25.36	+24 58.6	2.090	3.064	3.3	20.5	2 1	8 25.56	+19 43.4	1.748	2.728	2.7	20.5
2 11	8 17.13	+25 32.8	2.138	3.077	6.7	20.7	2 11	8 17.56	+20 46.8	1.779	2.728	7.0	20.7
2 21	8 10.39	+25 56.1	2.213	3.090	10.0	20.9	2 21	8 11.08	+21 41.1	1.836	2.729	10.9	21.0
3 2	8 5.75	+26 8.1	2.311	3.103	12.8	21.1	3 2	8 6.87	+22 23.8	1.917	2.731	14.2	21.2
<b>328592</b>	2009 <i>ST</i> <sub>67</sub>		1 26.1 198°00	2°2/24.7	18		<b>54149</b>	2000 <i>HU</i> <sub>42</sub>		1 26.1 276°79	5°4/23.4	18	
12 23	8 56.59	+22 44.6	2.042	2.867	12.7	21.4	12 23	9 0.11	+28 3.1	1.447	2.289	16.1	19.5
1 2	8 51.28	+23 29.6	1.964	2.866	9.4	21.2	1 2	8 54.99	+29 14.2	1.372	2.281	12.2	19.2
1 12	8 43.70	+24 19.0	1.910	2.865	5.8	20.9	1 12	8 46.49	+30 27.7	1.321	2.273	8.1	19.0
1 22	8 34.55	+25 7.4	1.884	2.863	2.4	20.7	1 22	8 35.51	+31 33.6	1.294	2.265	5.5	18.8
2 1	8 24.83	+25 49.4	1.888	2.862	3.8	20.8	2 1	8 23.52	+32 22.1	1.295	2.256	7.2	18.9
2 11	8 15.70	+26 20.8	1.921	2.860	7.5	21.0	2 11	8 12.40	+32 47.3	1.321	2.248	11.2	19.1
2 21	8 8.16	+26 39.8	1.981	2.858	11.0	21.3	2 21	8 3.71	+32 48.6	1.370	2.240	15.4	19.3
3 2	8 2.97	+26 46.5	2.064	2.855	14.1	21.5	3 2	7 58.52	+32 29.3	1.439	2.232	19.1	19.5
<b>294237</b>	2007 <i>UZ</i> <sub>37</sub>		1 26.1 75°66	5°7/22.4	18		<b>10369</b>	Sinden		1 26.1 231°54	5°2/27.4	18	
12 23	8 58.70	+35 10.9	2.242	3.063	11.9	20.5	12 23	9 4.72	+ 8 56.7	1.906	2.686	15.2	17.6
1 2	8 52.71	+36 6.6	2.186	3.076	9.2	20.4	1 2	8 57.26	+ 7 31.0	1.817	2.683	12.1	17.4
1 12	8 44.45	+36 55.9	2.155	3.089	6.9	20.2	1 12	8 47.32	+ 6 13.4	1.753	2.680	8.7	17.2
1 22	8 34.73	+37 32.6	2.151	3.101	5.7	20.2	1 22	8 35.65	+ 5 6.3	1.716	2.677	5.7	17.0
2 1	8 24.63	+37 51.7	2.177	3.114	6.7	20.3	2 1	8 23.38	+ 4 11.6	1.711	2.674	5.6	17.0
2 11	8 15.35	+37 51.6	2.230	3.127	8.9	20.4	2 11	8 11.77	+ 3 30.0	1.735	2.670	8.4	17.1
2 21	8 7.84	+37 33.4	2.308	3.140	11.4	20.6	2 21	8 1.95	+ 3 0.3	1.788	2.667	11.9	17.3
3 2	8 2.76	+37 0.3	2.408	3.153	13.6	20.8	3 2	7 54.70	+ 2 40.2	1.864	2.663	15.1	17.5
<b>378887</b>	2008 <i>TQ</i> <sub>183</sub>		1 26.1 173°80	0°4/26.3	18		<b>493476</b>	2014 <i>YV</i> <sub>2</sub>		1 26.1 357°52	2°2/27.4	18	
12 23	8 54.27	+15 54.7	2.141	2.955	12.6	21.6	12 23	8 52.95	+10 44.4	1.912	2.719	14.1	21.0
1 2	8 49.36	+16 18.4	2.060	2.955	9.4	21.3	1 2	8 48.59	+11 4.4	1.830	2.719	10.9	20.8
1 12	8 42.45	+16 50.9	2.003	2.956	5.8	21.1	1 12	8 42.09	+11 38.7	1.773	2.718	7.1	20.5
1 22	8 34.18	+17 28.7	1.975	2.956	1.8	20.9	1 22	8 34.11	+12 24.7	1.741	2.718	3.2	20.3
2 1	8 25.41	+18 7.9	1.976	2.956	2.4	20.9	2 1	8 25.58	+13 18.2	1.739	2.717	3.0	20.3
2 11	8 17.16	+18 44.6	2.006	2.956	6.3	21.2	2 11	8 17.58	+14 14.0	1.765	2.718	6.7	20.5
2 21	8 10.32	+19 15.8	2.064	2.956	9.9	21.4	2 21	8 11.08	+15 7.5	1.818	2.718	10.6	20.7
3 2	8 5.55	+19 39.6	2.146	2.956	13.0	21.6	3 2	8 6.78	+15 54.9	1.894	2.718	13.9	21.0
<b>492458</b>	2014 <i>MF</i> <sub>63</sub>		1 26.1 199°33	0°2/25.9	17		<b>235326</b>	2003 <i>UY</i> <sub>189</sub>		1 26.1 85°73	0°7/25.7	18	
12 23	8 58.81	+17 23.2	1.976	2.789	13.5	23.4	12 23	8 55.82	+19 28.4	2.105	2.925	12.6	20.8
1 2	8 52.97	+17 54.5	1.890	2.786	10.1	23.2	1 2	8 50.47	+19 51.8	2.035	2.935	9.3	20.6
1 12	8 44.77	+18 34.6	1.829	2.782	6.2	22.9	1 12	8 43.09	+20 20.6	1.991	2.945	5.6	20.4
1 22	8 34.89	+19 19.0	1.796	2.778	1.8	22.6	1 22	8 34.37	+20 51.0	1.974	2.955	1.7	20.1
2 1	8 24.37	+20 2.9	1.793	2.772	2.7	22.7	2 1	8 25.26	+21 19.0	1.987	2.966	2.7	20.2
2 11	8 14.41	+20 41.6	1.820	2.767	7.1	22.9	2 11	8 16.80	+21 41.2	2.029	2.976	6.5	20.5
2 21	8 6.06	+21 12.1	1.874	2.760	11.1	23.2	2 21	8 9.86	+21 55.9	2.099	2.986	10.0	20.7
3 2	8 0.13	+21 33.2	1.951	2.753	14.4	23.4	3 2	8 5.09	+22 2.4	2.192	2.996	13.0	20.9
<b>139666</b>	2001 <i>QG</i> <sub>192</sub>		1 26.1 26°05	5°9/27.9	18		<b>106274</b>	2000 <i>UU</i> <sub>69</sub>		1 26.1 246°25	4°8/23.7	18	
12 23	8 58.05	+ 8 46.2	1.316	2.132	18.8	17.7	12 23	9 1.18	+28 39.0	1.656	2.490	14.8	19.2
1 2	8 52.86	+ 7 31.3	1.258	2.145	14.9	17.5	1 2	8 55.37	+29 31.8	1.579	2.482	11.2	19.0
1 12	8 44.81	+ 6 32.2	1.220	2.158	10.5	17.3	1 12	8 46.52	+30 24.6	1.524	2.475	7.5	18.7
1 22	8 34.89	+ 5 51.1	1.207	2.172	6.7	17.1	1 22	8 35.48	+31 9.2	1.496	2.467	4.9	18.5
2 1	8 24.50	+ 5 28.3	1.219	2.188	6.3	17.1	2 1	8 23.61	+31 38.2	1.497	2.459	6.3	18.6
2 11	8 15.20	+ 5 21.5	1.257	2.204	9.5	17.3	2 11	8 12.55	+31 47.3	1.524	2.451	10.1	18.8
2 21	8 8.18	+ 5 26.4	1.319	2.222	13.5	17.6	2 21	8 3.69	+31 36.7	1.576	2.442	13.9	19.0
3 2	8 4.20	+ 5 38.1	1.401	2.240	17.1	17.9	3 2	7 57.98	+31 9.4	1.648	2.434	17.4	19.2
<b>349213</b>	2007 <i>RB</i> <sub>303</sub>		1 26.1 89°45	1°3/26.9	18		<b>410824</b>	2009 <i>OJ</i> <sub>20</sub>		1 26.1 102°80	5°2/30.2	18	
12 23	8 53.55	+13 40.2	2.336	3.141	12.0	21.6	12 23	8 53.88	- 0 6.1	1.939	2.700	15.7	20.3
1 2	8 48.60	+13 50.3	2.259	3.148	9.1	21.4	1 2	8 49.19	+ 0 32.3	1.859	2.708	12.7	20.1
1 12	8 41.88	+14 9.2	2.207	3.155	5.7	21.2	1 12	8 42.42	+ 1 34.9	1.801	2.715	9.4	19.9
1 22	8 33.99	+14 34.6	2.183	3.162	2.2	21.0	1 22	8 34.20	+ 3 0.1	1.768	2.722	6.3	19.7
2 1	8 25.73	+15 3.5	2.189	3.169	2.3	21.0	2 1	8 25.47	+ 4 43.3	1.765	2.730	5.2	19.6
2 11	8 17.99	+15 32.8	2.226	3.176	5.7	21.2	2 11	8 17.27	+ 6 37.0	1.791	2.737	7.3	19.8
2 21	8 11.52	+15 59.6	2.290	3.183	9.0	21.4	2 21	8 10.54	+ 8 32.9	1.846	2.744	10.6	20.0
3 2	8 6.91	+16 22.2	2.378	3.190	11.8	21.6	3 2	8 5.97	+10 23.7	1.926	2.751	13.7	20.2
<b>198854</b>	2005 <i>JZ</i> <sub>178</sub>		1 26.1 17°38	4°8/28.8	18		<b>238952</b>	2006 <i>BS</i> <sub>60</sub>		1 26.1 206°16	0°1/26.2	18	
12 23	8 51.64	+ 5 53.7	1.635	2.438	16.4	19.4	12 23	8 58.79	+16 23.4	1.995	2.805	13.5	21.3
1 2	8 47.78	+ 5 39.0	1.566	2.445	13.0	19.2	1 2	8 52.96	+16 54.4	1.906	2.800	10.2	21.1
1 12	8 41.64	+ 5 43.1	1.519	2.452	9.2	19.0	1 12	8 44.79	+17 35.0	1.842	2.794	6.2	20.8
1 22	8 33.96	+ 6 5.4	1.497	2.461	5.8	18.8	1 22	8 34.93	+18 21.2	1.806	2.787	1.9	20.5
2 1	8 25.79	+ 6 43.3	1.501	2.471	5.1	18.8	2 1	8 24.40	+19 8.0	1.800	2.780	2.6	20.6
2 11	8 18.32	+ 7 31.7	1.531	2.482	7.8	19.0	2 11	8 14.39	+19 50.7	1.824	2.771	7.0	20.8
2 21	8 12.54	+ 8 24.8	1.588	2.493	11.5	19.2	2 21	8 5.95	+20 25.9	1.875	2.763	11.0	21.1
3 2	8 9.16	+ 9 17.2	1.666	2.505	14.8	19.4	3 2	7 59.90	+20 52.0	1.950	2.753	14.4	21.3
<b>418432</b>	2008 <i>OF</i> <sub>25</sub>		1 26.1 144°06	1°1/25.5	18		<b>329824</b>	2004 <i>RB</i> <sub>195</sub>		1 26.1 138°39	7°3/1.0	18	
12 23	8 59.46	+22 22.8	2.360	3.172	11.6	21.2	12 23	8 54.66	- 7 54.9	2.714	3.404	13.2	21.8
1 2	8 52.94	+22 26.0	2.284	3.179	8.6	21.0	1 2	8 49.16	- 8 26.0	2.637	3.419	11.4	21.7
1 12	8 44.48	+22 30.7	2.234	3.187	5.2	20.8	1 12	8 42.12	- 8 38.2	2.581	3.433	9.5	21.6
1 22	8 34.75	+22 34.0	2.213	3.194	1.7	20.6	1 22	8 34.07	- 8 30.3	2.551	3.446	7.9	21.5
2 1	8 24.68	+22 33.0	2.223	3.200	2.7	20.6	2 1	8 25.70	- 8 2.4	2.548	3.458	7.3	21.5
2 11	8 15.26	+22 25.9	2.264	3.206	6.2	20.9	2 11	8 17.75	- 7 17.3	2.574	3.470	7.9	21.5
2 21	8 7.34	+22 12.3	2.333	3.212	9.5	21.1	2 21	8 10.91	- 6 19.1	2.627	3.482	9.4	21.6
3 2	8 1.52	+21 52.8	2.427	3.218	12.3	21.3	3 2	8 5.68	- 5 12.8	2.704	3.492	11.2	21.8



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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>298800</b>	2004 <i>QT</i> <sub>21</sub>		1 26.1 246°92	0°1/26.1 18			<b>371975</b>	2008 <i>GK</i> <sub>14</sub>		1 26.1 237°74	5°3/22.7 17		
12 23	9 1.81	+18 19.3	1.747	2.564	14.9	21.4	12 23	9 1.29	+33 0.3	2.230	3.048	12.0	22.0
1 2	8 55.62	+18 20.8	1.651	2.548	11.3	21.1	1 2	8 54.93	+33 56.2	2.142	3.034	9.3	21.8
1 12	8 46.62	+18 29.0	1.578	2.531	6.9	20.8	1 12	8 46.04	+34 48.7	2.080	3.019	6.7	21.6
1 22	8 35.53	+18 40.6	1.532	2.514	2.1	20.5	1 22	8 35.34	+35 30.9	2.047	3.004	5.3	21.5
2 1	8 23.53	+18 51.4	1.516	2.496	3.0	20.5	2 1	8 23.92	+35 56.9	2.042	2.988	6.4	21.5
2 11	8 12.09	+18 58.1	1.528	2.477	8.0	20.8	2 11	8 13.06	+36 3.6	2.067	2.972	9.1	21.7
2 21	8 2.51	+18 58.6	1.567	2.458	12.6	21.0	2 21	8 3.91	+35 51.1	2.117	2.955	12.0	21.8
3 2	7 55.77	+18 52.5	1.629	2.438	16.5	21.2	3 2	7 57.32	+35 22.3	2.189	2.938	14.7	22.0
<b>120093</b>	2003 <i>EE</i> <sub>38</sub>		1 26.1 250°44	6°6/30.1 18			<b>384127</b>	2008 <i>YG</i> <sub>49</sub>		1 26.1 82°61	1°2/25.3 18		
12 23	8 54.00	- 0 40.8	2.072	2.825	15.0	20.1	12 23	8 54.72	+20 12.0	2.274	3.093	11.8	21.0
1 2	8 49.29	- 1 4.4	1.977	2.815	12.5	19.9	1 2	8 49.54	+20 53.7	2.209	3.109	8.7	20.8
1 12	8 42.52	- 1 8.6	1.904	2.805	9.8	19.7	1 12	8 42.49	+21 40.5	2.171	3.125	5.2	20.6
1 22	8 34.26	- 0 52.1	1.855	2.794	7.4	19.5	1 22	8 34.23	+22 27.8	2.161	3.142	1.7	20.4
2 1	8 25.38	- 0 15.4	1.834	2.784	6.6	19.4	2 1	8 25.62	+23 11.3	2.181	3.158	2.8	20.5
2 11	8 16.88	+ 0 38.0	1.841	2.773	8.2	19.5	2 11	8 17.61	+23 47.3	2.231	3.174	6.3	20.7
2 21	8 9.70	+ 1 42.8	1.874	2.761	11.0	19.7	2 21	8 11.01	+24 13.9	2.308	3.189	9.5	21.0
3 2	8 4.59	+ 2 53.0	1.932	2.750	13.9	19.8	3 2	8 6.40	+24 30.6	2.410	3.205	12.2	21.2
<b>207599</b>	2006 <i>QF</i> <sub>91</sub>		1 26.1 183°60	2°9/28.1 18			<b>256809</b>	2008 <i>CD</i> <sub>108</sub>		1 26.1 100°97	0°6/25.8 18		
12 23	8 53.66	+ 8 13.9	2.768	3.545	11.0	21.0	12 23	8 56.75	+17 24.9	1.774	2.597	14.4	20.9
1 2	8 48.46	+ 8 3.9	2.678	3.545	8.6	20.9	1 2	8 51.56	+18 11.2	1.705	2.606	10.7	20.7
1 12	8 41.73	+ 8 3.7	2.614	3.545	6.0	20.7	1 12	8 43.95	+19 7.4	1.660	2.615	6.5	20.5
1 22	8 33.97	+ 8 12.8	2.578	3.545	3.5	20.5	1 22	8 34.71	+20 8.1	1.642	2.624	1.9	20.2
2 1	8 25.85	+ 8 29.6	2.573	3.544	3.1	20.5	2 1	8 24.93	+21 6.9	1.653	2.633	3.0	20.3
2 11	8 18.11	+ 8 51.7	2.598	3.543	5.4	20.7	2 11	8 15.86	+21 58.3	1.694	2.641	7.5	20.6
2 21	8 11.40	+ 9 16.7	2.652	3.541	8.1	20.8	2 21	8 8.58	+22 38.9	1.760	2.650	11.5	20.8
3 2	8 6.27	+ 9 42.0	2.731	3.539	10.6	21.0	3 2	8 3.83	+23 7.5	1.849	2.658	14.8	21.1
<b>417083</b>	2005 <i>UY</i> <sub>263</sub>		1 26.1 345°26	6°7/22.1 18			<b>190152</b>	2005 <i>TG</i> <sub>28</sub>		1 26.1 73°86	5°3/28.6 18		
12 23	8 59.62	+34 16.8	1.814	2.645	13.8	21.2	12 23	8 58.03	+ 6 8.2	1.370	2.175	18.8	20.0
1 2	8 54.07	+35 32.3	1.748	2.644	10.8	21.0	1 2	8 52.90	+ 5 49.8	1.306	2.187	14.9	19.8
1 12	8 45.65	+36 42.9	1.706	2.643	8.0	20.8	1 12	8 44.93	+ 5 52.9	1.263	2.198	10.5	19.6
1 22	8 35.21	+37 39.7	1.691	2.643	6.7	20.8	1 22	8 35.02	+ 6 17.0	1.244	2.210	6.4	19.4
2 1	8 24.08	+38 15.3	1.703	2.642	8.0	20.8	2 1	8 24.52	+ 6 58.7	1.251	2.222	5.6	19.4
2 11	8 13.80	+38 26.2	1.741	2.642	10.8	21.0	2 11	8 14.96	+ 7 51.8	1.284	2.234	9.0	19.6
2 21	8 5.65	+38 13.6	1.804	2.642	13.8	21.2	2 21	8 7.59	+ 8 49.3	1.341	2.246	13.2	19.9
3 2	8 0.50	+37 41.5	1.886	2.642	16.5	21.4	3 2	8 3.22	+ 9 44.9	1.420	2.258	17.0	20.1
<b>408842</b>	2001 <i>RL</i> <sub>154</sub>		1 26.1 54°27	6°4/29.2 18			<b>138414</b>	2000 <i>HY</i> <sub>41</sub>		1 26.1 4°64	2°7/27.3 18		
12 23	8 56.94	+ 3 35.0	1.601	2.387	17.4	20.2	12 23	8 53.72	+12 14.3	1.307	2.141	17.9	19.1
1 2	8 51.64	+ 2 48.4	1.541	2.404	14.0	20.0	1 2	8 49.96	+12 6.1	1.238	2.141	13.8	18.8
1 12	8 43.92	+ 2 21.6	1.501	2.422	10.4	19.9	1 12	8 43.28	+12 13.9	1.190	2.141	9.0	18.5
1 22	8 34.64	+ 2 15.5	1.486	2.440	7.3	19.7	1 22	8 34.56	+12 35.7	1.165	2.143	4.1	18.3
2 1	8 24.95	+ 2 29.1	1.497	2.458	6.6	19.7	2 1	8 25.13	+13 7.2	1.166	2.145	3.8	18.2
2 11	8 16.11	+ 2 58.3	1.536	2.476	8.8	19.9	2 11	8 16.57	+13 42.8	1.192	2.149	8.6	18.5
2 21	8 9.15	+ 3 37.7	1.599	2.494	12.1	20.1	2 21	8 10.18	+14 17.3	1.242	2.153	13.4	18.8
3 2	8 4.77	+ 4 21.4	1.685	2.513	15.2	20.4	3 2	8 6.84	+14 46.5	1.312	2.159	17.6	19.1
<b>50333</b>	2000 <i>CZ</i> <sub>57</sub>		1 26.1 170°57	3°4/24.3 18			<b>447303</b>	2005 <i>WR</i> <sub>138</sub>		1 26.1 145°08	2°5/27.3 18		
12 23	9 2.83	+28 43.8	2.247	3.062	12.1	18.7	12 23	9 0.48	+11 48.7	1.690	2.495	15.8	22.1
1 2	8 55.67	+29 8.1	2.171	3.065	9.1	18.5	1 2	8 54.36	+11 46.0	1.617	2.504	12.1	21.9
1 12	8 46.25	+29 30.0	2.121	3.069	5.9	18.3	1 12	8 45.67	+11 56.4	1.567	2.512	7.9	21.6
1 22	8 35.32	+29 44.4	2.100	3.072	3.5	18.2	1 22	8 35.24	+12 17.6	1.543	2.519	3.6	21.4
2 1	8 23.97	+29 47.3	2.109	3.074	4.5	18.3	2 1	8 24.25	+12 46.0	1.548	2.526	3.4	21.4
2 11	8 13.36	+29 36.8	2.149	3.075	7.6	18.4	2 11	8 14.04	+13 17.2	1.582	2.533	7.6	21.7
2 21	8 4.49	+29 13.7	2.216	3.076	10.7	18.6	2 21	8 5.75	+13 47.4	1.642	2.538	11.7	21.9
3 2	7 58.04	+28 40.1	2.307	3.076	13.5	18.8	3 2	8 0.15	+14 13.5	1.725	2.544	15.3	22.2
<b>166716</b>	2002 <i>TX</i> <sub>208</sub>		1 26.1 146°20	2°9/23.8 18			<b>149678</b>	2004 <i>GZ</i> <sub>17</sub>		1 26.1 211°53	2°1/27.9 17		
12 23	8 55.27	+25 34.4	2.435	3.258	11.0	20.5	12 23	8 51.73	+ 8 48.8	2.842	3.624	10.7	20.9
1 2	8 50.01	+26 36.5	2.363	3.263	8.2	20.3	1 2	8 47.10	+ 9 13.6	2.747	3.619	8.3	20.8
1 12	8 42.83	+27 40.4	2.316	3.268	5.2	20.1	1 12	8 40.97	+ 9 49.5	2.677	3.614	5.5	20.6
1 22	8 34.33	+28 40.8	2.299	3.273	3.0	20.0	1 22	8 33.81	+10 34.7	2.636	3.608	2.9	20.4
2 1	8 25.37	+29 32.6	2.312	3.277	4.1	20.1	2 1	8 26.25	+11 26.6	2.626	3.602	2.5	20.4
2 11	8 16.91	+30 12.1	2.355	3.281	7.0	20.3	2 11	8 18.99	+12 21.6	2.647	3.595	5.0	20.5
2 21	8 9.80	+30 37.9	2.426	3.286	9.9	20.5	2 21	8 12.69	+13 16.3	2.697	3.589	7.9	20.7
3 2	8 4.69	+30 50.2	2.519	3.289	12.4	20.6	3 2	8 7.88	+14 7.7	2.773	3.582	10.4	20.8
<b>363166</b>	2001 <i>SD</i> <sub>345</sub>		1 26.1 169°06	1°6/24.8 18			<b>263790</b>	2008 <i>PG</i> <sub>22</sub>		1 26.1 215°29	1°4/25.4 17		
12 23	8 57.47	+21 12.5	2.586	3.396	10.8	21.5	12 23	8 59.03	+22 55.9	2.436	3.248	11.3	20.9
1 2	8 51.50	+22 13.1	2.506	3.401	8.0	21.3	1 2	8 52.76	+23 5.8	2.346	3.241	8.4	20.7
1 12	8 43.68	+23 18.6	2.453	3.406	4.8	21.1	1 12	8 44.50	+23 17.4	2.281	3.234	5.1	20.5
1 22	8 34.58	+24 24.0	2.431	3.410	1.9	20.9	1 22	8 34.87	+23 27.2	2.246	3.226	1.9	20.2
2 1	8 25.01	+25 24.4	2.440	3.414	3.1	21.0	2 1	8 24.76	+23 32.1	2.242	3.218	2.9	20.3
2 11	8 15.88	+26 15.7	2.481	3.416	6.2	21.2	2 11	8 15.16	+23 30.0	2.268	3.209	6.3	20.5
2 21	8 8.00	+26 55.8	2.551	3.418	9.2	21.4	2 21	8 6.95	+23 20.2	2.323	3.200	9.6	20.7
3 2	8 2.01	+27 24.2	2.646	3.419	11.8	21.6	3 2	8 0.80	+23 3.2	2.403	3.190	12.5	20.9
<b>80267</b>	1999 <i>XX</i> <sub>25</sub>		1 26.1 24°76	5°5/23.4 18			<b>333867</b>	1996 <i>RH</i> <sub>8</sub>		1 26.1 120°67	3°2/28.6 18		
12 23	8 57.48	+25 25.1	1.121	1.980	18.5								

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>197686</b>	2004 <i>NK</i> <sub>28</sub>		1 26.1 169°46'	0°9/26.6	18		<b>56483</b>	2000 <i>GY</i> <sub>121</sub>		1 26.1 265°05'	2°3/24.8	18	
12 23	8 59.62	+14 36.8	1.779	2.590	14.9	21.5	12 23	8 57.82	+20 24.1	1.476	2.313	16.1	19.6
1 2	8 53.71	+14 56.8	1.701	2.594	11.3	21.3	1 2	8 53.08	+21 29.6	1.398	2.307	12.0	19.4
1 12	8 45.30	+15 28.1	1.646	2.597	7.0	21.1	1 12	8 45.29	+22 46.2	1.344	2.301	7.3	19.1
1 22	8 35.14	+16 7.1	1.619	2.599	2.4	20.8	1 22	8 35.26	+24 5.7	1.315	2.295	2.8	18.8
2 1	8 24.37	+16 48.9	1.621	2.601	2.8	20.8	2 1	8 24.29	+25 19.2	1.314	2.290	4.6	18.9
2 11	8 14.29	+17 28.6	1.652	2.603	7.3	21.1	2 11	8 14.04	+26 18.7	1.340	2.284	9.5	19.2
2 21	8 6.01	+18 2.6	1.710	2.603	11.5	21.4	2 21	8 5.92	+27 0.5	1.391	2.278	14.1	19.4
3 2	8 0.33	+18 28.8	1.791	2.604	15.1	21.6	3 2	8 0.96	+27 24.0	1.462	2.272	18.0	19.6
<b>42492</b>	Brüggenthies		1 26.1 183°68'	1°8/27.0	18		<b>357224</b>	2002 <i>JN</i> <sub>23</sub>		1 26.1 276°89'	3°6/27.9	18	
12 23	9 0.46	+12 53.5	1.917	2.717	14.4	20.2	12 23	8 55.83	+ 8 40.1	1.633	2.438	16.3	20.8
1 2	8 54.19	+12 58.4	1.833	2.718	11.0	20.0	1 2	8 51.25	+ 8 39.4	1.541	2.425	12.8	20.5
1 12	8 45.53	+13 14.4	1.772	2.718	7.0	19.7	1 12	8 44.04	+ 8 56.0	1.471	2.411	8.7	20.2
1 22	8 35.21	+13 39.0	1.740	2.718	2.9	19.5	1 22	8 34.87	+ 9 29.1	1.426	2.398	4.7	20.0
2 1	8 24.28	+14 8.8	1.737	2.716	2.9	19.5	2 1	8 24.83	+10 15.2	1.408	2.384	4.2	19.9
2 11	8 13.95	+14 39.8	1.764	2.714	7.0	19.7	2 11	8 15.28	+11 9.0	1.418	2.370	8.1	20.1
2 21	8 5.31	+15 8.5	1.819	2.711	11.0	20.0	2 21	8 7.47	+12 4.7	1.454	2.357	12.5	20.3
3 2	7 59.12	+15 32.5	1.897	2.707	14.5	20.2	3 2	8 2.33	+12 57.1	1.512	2.343	16.5	20.5
<b>52031</b>	2002 <i>PU</i> <sub>35</sub>		1 26.1 152°46'	0°2/26.2	18		<b>237511</b>	2000 <i>RZ</i> <sub>90</sub>		1 26.1 154°30'	7°7/3.1	18	
12 23	8 54.95	+16 54.0	2.364	3.174	11.7	21.2	12 23	8 51.48	-14 2.1	3.202	3.842	12.2	21.3
1 2	8 49.70	+17 13.7	2.284	3.178	8.7	21.0	1 2	8 46.73	-14 29.1	3.117	3.849	10.9	21.2
1 12	8 42.62	+17 40.2	2.230	3.182	5.3	20.8	1 12	8 40.67	-14 37.3	3.053	3.856	9.5	21.1
1 22	8 34.31	+18 10.5	2.204	3.185	1.6	20.5	1 22	8 33.75	-14 25.2	3.013	3.863	8.3	21.0
2 1	8 25.59	+18 41.1	2.209	3.188	2.2	20.6	2 1	8 26.52	-13 52.7	2.998	3.869	7.8	21.0
2 11	8 17.37	+19 8.8	2.243	3.192	5.8	20.8	2 11	8 19.61	-13 1.7	3.011	3.874	8.0	21.0
2 21	8 10.45	+19 31.4	2.306	3.194	9.2	21.0	2 21	8 13.59	-11 56.0	3.050	3.880	9.0	21.1
3 2	8 5.44	+19 47.5	2.393	3.197	12.0	21.2	3 2	8 8.91	-10 40.2	3.114	3.884	10.3	21.2
<b>110282</b>	2001 <i>SD</i> <sub>257</sub>		1 26.1 282°12'	0°8/25.7	18		<b>296231</b>	2009 <i>CR</i> <sub>45</sub>		1 26.1 162°17'	2°1/24.9	18	
12 23	8 56.21	+18 52.0	1.807	2.633	14.1	19.9	12 23	8 59.00	+20 59.5	1.776	2.601	14.3	20.7
1 2	8 51.25	+19 24.5	1.727	2.630	10.5	19.7	1 2	8 53.39	+21 57.9	1.702	2.605	10.6	20.5
1 12	8 43.85	+20 5.2	1.671	2.627	6.3	19.4	1 12	8 45.19	+23 3.6	1.653	2.609	6.4	20.3
1 22	8 34.73	+20 49.2	1.642	2.624	1.9	19.1	1 22	8 35.17	+24 10.0	1.632	2.612	2.5	20.0
2 1	8 24.97	+21 31.3	1.642	2.621	3.1	19.2	2 1	8 24.49	+25 10.0	1.640	2.615	4.0	20.1
2 11	8 15.84	+22 6.5	1.670	2.618	7.5	19.4	2 11	8 14.51	+25 57.9	1.677	2.617	8.2	20.4
2 21	8 8.43	+22 32.1	1.724	2.615	11.6	19.7	2 21	8 6.39	+26 31.1	1.739	2.619	12.2	20.6
3 2	8 3.55	+22 47.0	1.801	2.612	15.1	19.9	3 2	8 0.97	+26 49.5	1.824	2.620	15.5	20.8
<b>91289</b>	1999 <i>FN</i> <sub>22</sub>		1 26.1 16°00'	1°2/25.7	18		<b>115782</b>	2003 <i>UL</i> <sub>217</sub>		1 26.1 46°39'	1°0/25.6	18	
12 23	9 0.86	+21 39.3	1.268	2.111	17.8	18.4	12 23	8 56.91	+18 26.1	1.423	2.260	16.6	19.5
1 2	8 55.45	+21 33.9	1.202	2.113	13.3	18.1	1 2	8 52.17	+19 9.3	1.361	2.270	12.3	19.3
1 12	8 46.67	+21 33.1	1.157	2.115	8.1	17.8	1 12	8 44.56	+20 3.0	1.322	2.279	7.4	19.0
1 22	8 35.59	+21 31.8	1.137	2.118	2.5	17.5	1 22	8 34.99	+21 0.8	1.308	2.290	2.2	18.7
2 1	8 23.83	+21 25.5	1.142	2.122	3.9	17.6	2 1	8 24.81	+21 55.2	1.321	2.300	3.6	18.9
2 11	8 13.23	+21 11.2	1.174	2.126	9.4	17.9	2 11	8 15.58	+22 40.0	1.361	2.311	8.6	19.2
2 21	8 5.26	+20 48.7	1.230	2.131	14.4	18.2	2 21	8 8.54	+23 11.9	1.425	2.322	13.2	19.5
3 2	8 0.79	+20 19.1	1.305	2.136	18.6	18.5	3 2	8 4.52	+23 29.9	1.511	2.333	16.9	19.7
<b>396874</b>	2004 <i>TZ</i> <sub>98</sub>		1 26.1 95°97'	2°0/25.1	18		<b>460258</b>	2014 <i>QO</i> <sub>285</sub>		1 26.1 41°26'	9°1/20.9	17	
12 23	9 1.68	+21 30.0	1.589	2.417	15.6	21.5	12 23	9 0.28	+36 13.0	1.439	2.280	16.2	20.2
1 2	8 55.36	+22 13.4	1.533	2.437	11.5	21.3	1 2	8 55.22	+38 5.3	1.392	2.290	12.9	20.0
1 12	8 46.28	+23 2.2	1.501	2.457	6.9	21.0	1 12	8 46.65	+39 49.4	1.368	2.301	10.1	19.8
1 22	8 35.42	+23 49.8	1.496	2.476	2.6	20.8	1 22	8 35.64	+41 12.6	1.369	2.312	9.1	19.8
2 1	8 24.14	+24 29.6	1.519	2.495	4.0	21.0	2 1	8 23.89	+42 5.0	1.396	2.324	10.5	19.9
2 11	8 13.90	+24 57.1	1.571	2.514	8.4	21.3	2 11	8 13.37	+42 23.1	1.447	2.336	13.3	20.1
2 21	8 5.88	+25 11.1	1.648	2.532	12.5	21.5	2 21	8 5.59	+42 10.0	1.518	2.349	16.4	20.3
3 2	8 0.79	+25 12.4	1.748	2.550	15.8	21.8	3 2	8 1.47	+41 32.1	1.608	2.361	19.0	20.6
<b>58014</b>	2002 <i>US</i> <sub>28</sub>		1 26.1 348°63'	3°0/26.9	18		<b>238760</b>	2005 <i>JP</i> <sub>28</sub>		1 26.1 160°63'	4°9/29.9	18	
12 23	8 59.63	+14 30.5	1.465	2.287	16.9	18.5	12 23	8 52.03	+ 0 30.9	2.653	3.400	12.2	21.3
1 2	8 54.15	+13 36.8	1.386	2.283	13.0	18.3	1 2	8 47.36	+ 0 22.6	2.566	3.403	10.0	21.2
1 12	8 45.76	+12 51.0	1.330	2.279	8.5	18.0	1 12	8 41.15	+ 0 29.6	2.503	3.406	7.6	21.0
1 22	8 35.33	+12 13.3	1.299	2.275	4.0	17.7	1 22	8 33.92	+ 0 51.9	2.466	3.409	5.6	20.9
2 1	8 24.20	+11 43.0	1.295	2.272	4.0	17.7	2 1	8 26.31	+ 1 28.1	2.458	3.411	5.0	20.8
2 11	8 13.92	+11 18.9	1.318	2.270	8.6	18.0	2 11	8 19.08	+ 2 15.3	2.480	3.413	6.3	20.9
2 21	8 5.80	+10 59.6	1.366	2.269	13.2	18.2	2 21	8 12.88	+ 3 9.6	2.530	3.415	8.6	21.1
3 2	8 0.70	+10 43.2	1.436	2.268	17.1	18.5	3 2	8 8.26	+ 4 6.7	2.605	3.417	10.9	21.2
<b>402110</b>	2004 <i>BE</i> <sub>20</sub>		1 26.1 22°01'	6°2/23.4	17		<b>381671</b>	2009 <i>BJ</i> <sub>48</sub>		1 26.1 68°77'	0°8/25.8	18	
12 23	8 55.47	+27 57.0	1.100	1.964	18.4	19.2	12 23	9 0.69	+22 27.7	2.243	3.056	12.2	20.2
1 2	8 51.87	+29 15.0	1.056	1.976	13.8	19.0	1 2	8 53.96	+22 8.0	2.166	3.061	9.0	20.0
1 12	8 44.65	+30 33.2	1.032	1.989	9.1	18.8	1 12	8 45.18	+21 48.8	2.114	3.067	5.5	19.8
1 22	8 35.01	+31 39.8	1.032	2.004	6.2	18.7	1 22	8 35.10	+21 27.8	2.091	3.072	1.7	19.6
2 1	8 24.77	+32 24.4	1.056	2.020	8.0	18.8	2 1	8 24.69	+21 3.1	2.099	3.078	2.6	19.6
2 11	8 15.93	+32 42.1	1.103	2.037	12.1	19.1	2 11	8 15.01	+20 33.8	2.138	3.084	6.3	19.9
2 21	8 9.99	+32 34.2	1.171	2.056	16.3	19.4	2 21	8 6.93	+20 0.3	2.206	3.089	9.7	20.1
3 2	8 7.73	+32 5.2	1.257	2.076	19.9	19.7	3 2	8 1.05	+19 23.4	2.298	3.095	12.7	20.3
<b>494180</b>	2016 <i>GF</i> <sub>229</sub>		1 26.1 24°97'	6°0/22.7	18		<b>368966</b>	2007 <i>BW</i> <sub>100</sub>		1 26.1 167°42'	0°9/25.7	18	
12 23	8 58.63	+33 4.8	1.852	2.683	13.5	20.3	12 23						

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>433909</b>	2015 <i>BP</i> <sub>468</sub>		1 26.1 250°41	4.7°/29.1	17		<b>91233</b>	1999 <i>CL</i> <sub>1</sub>		1 26.1 350°62	5°0°/24.3	18	
12 23	8 53.34	+ 3 3.4	2.544	3.303	12.4	21.3	12 23	8 58.27	+27 24.5	1.157	2.014	18.2	18.9
1 2	8 48.49	+ 2 40.1	2.443	3.292	10.1	21.1	1 2	8 54.12	+28 4.6	1.091	2.008	13.8	18.6
1 12	8 41.93	+ 2 30.2	2.367	3.279	7.5	20.9	1 12	8 46.21	+28 45.7	1.046	2.003	8.9	18.3
1 22	8 34.18	+ 2 34.2	2.317	3.267	5.4	20.7	1 22	8 35.60	+29 18.2	1.024	1.999	5.2	18.1
2 1	8 25.94	+ 2 51.5	2.297	3.255	4.8	20.7	2 1	8 24.06	+29 33.5	1.026	1.997	6.9	18.2
2 11	8 18.01	+ 3 19.7	2.306	3.242	6.6	20.8	2 11	8 13.70	+29 26.9	1.053	1.995	11.7	18.4
2 21	8 11.15	+ 3 55.5	2.342	3.229	9.1	20.9	2 21	8 6.22	+28 59.5	1.101	1.994	16.5	18.7
3 2	8 5.97	+ 4 35.2	2.404	3.215	11.8	21.1	3 2	8 2.62	+28 15.3	1.167	1.994	20.6	19.0
<b>149478</b>	2003 <i>EQ</i> <sub>24</sub>		1 26.1 251°28	2°2°/24.9	17		<b>353296</b>	2010 <i>GC</i> <sub>157</sub>		1 26.1 254°95	1°2°/26.8	18	
12 23	8 57.94	+23 26.1	2.072	2.895	12.6	20.6	12 23	8 58.14	+14 2.0	1.704	2.519	15.3	21.4
1 2	8 52.43	+24 1.2	1.981	2.882	9.4	20.4	1 2	8 52.98	+14 19.1	1.609	2.504	11.7	21.1
1 12	8 44.57	+24 39.9	1.914	2.868	5.8	20.2	1 12	8 45.13	+14 49.2	1.538	2.488	7.4	20.8
1 22	8 35.02	+25 17.3	1.876	2.855	2.5	19.9	1 22	8 35.25	+15 29.1	1.492	2.472	2.7	20.5
2 1	8 24.77	+25 48.2	1.867	2.840	3.8	20.0	2 1	8 24.47	+16 14.2	1.475	2.456	3.0	20.5
2 11	8 15.02	+26 8.7	1.888	2.826	7.6	20.2	2 11	8 14.16	+16 58.9	1.487	2.439	7.8	20.8
2 21	8 6.83	+26 17.3	1.935	2.811	11.3	20.4	2 21	8 5.60	+17 38.7	1.525	2.422	12.4	21.0
3 2	8 1.03	+26 14.2	2.005	2.796	14.5	20.6	3 2	7 59.75	+18 10.8	1.585	2.404	16.4	21.2
<b>31415</b>	1999 <i>AK</i> <sub>23</sub>		1 26.1 103°00	2°3°/27.4	18		<b>245002</b>	2004 <i>CE</i> <sub>34</sub>		1 26.1 251°18	1°4°/26.9	17	
12 23	9 0.89	+10 10.7	1.675	2.474	16.2	18.7	12 23	8 55.46	+14 24.5	2.279	3.083	12.3	20.5
1 2	8 54.52	+10 39.8	1.617	2.501	12.3	18.5	1 2	8 50.18	+14 15.8	2.192	3.081	9.3	20.3
1 12	8 45.69	+11 24.8	1.582	2.526	7.9	18.3	1 12	8 42.99	+14 14.7	2.131	3.078	5.9	20.1
1 22	8 35.30	+12 21.7	1.575	2.551	3.5	18.1	1 22	8 34.52	+14 19.4	2.097	3.076	2.4	19.8
2 1	8 24.52	+13 24.8	1.596	2.575	3.2	18.1	2 1	8 25.59	+14 27.7	2.094	3.073	2.4	19.8
2 11	8 14.67	+14 27.9	1.647	2.598	7.3	18.4	2 11	8 17.16	+14 37.3	2.120	3.070	6.0	20.0
2 21	8 6.77	+15 25.7	1.725	2.621	11.3	18.7	2 21	8 10.06	+14 46.1	2.174	3.068	9.4	20.2
3 2	8 1.53	+16 15.1	1.826	2.642	14.7	18.9	3 2	8 4.92	+14 52.3	2.253	3.065	12.4	20.4
<b>88772</b>	2001 <i>SJ</i> <sub>74</sub>		1 26.1 90°25	7°5°/30.6	18		<b>97562</b>	2000 <i>DM</i> <sub>78</sub>		1 26.1 109°74	4°6°/23.7	18	
12 23	8 55.49	- 1 55.4	1.884	2.635	16.4	19.4	12 23	9 1.03	+32 35.9	2.240	3.058	12.0	19.5
1 2	8 50.42	- 2 33.8	1.812	2.646	13.7	19.2	1 2	8 54.43	+33 4.0	2.172	3.065	9.2	19.3
1 12	8 43.22	- 2 50.6	1.761	2.657	10.8	19.0	1 12	8 45.57	+33 26.9	2.130	3.072	6.4	19.2
1 22	8 34.58	- 2 44.3	1.735	2.667	8.4	18.9	1 22	8 35.27	+33 39.3	2.116	3.078	4.6	19.1
2 1	8 25.48	- 2 15.4	1.735	2.678	7.6	18.9	2 1	8 24.60	+33 37.2	2.131	3.085	5.5	19.1
2 11	8 17.00	- 1 27.9	1.762	2.688	8.9	19.0	2 11	8 14.75	+33 19.2	2.175	3.091	8.1	19.3
2 21	8 10.06	- 0 27.6	1.814	2.699	11.5	19.2	2 21	8 6.67	+32 46.6	2.246	3.097	11.0	19.5
3 2	8 5.37	+ 0 38.9	1.891	2.709	14.2	19.4	3 2	8 1.01	+32 2.4	2.340	3.103	13.5	19.7
<b>149776</b>	2004 <i>RU</i> <sub>152</sub>		1 26.1 9°01	2°6°/27.9	18		<b>264730</b>	2002 <i>CU</i> <sub>91</sub>		1 26.1 268°95	4°2°/24.1	17	
12 23	8 52.38	+ 9 38.1	2.605	3.393	11.4	19.6	12 23	9 1.90	+30 33.6	2.055	2.876	12.8	21.0
1 2	8 47.66	+ 9 26.6	2.518	3.393	8.8	19.5	1 2	8 55.47	+30 56.6	1.965	2.861	9.8	20.8
1 12	8 41.36	+ 9 24.6	2.457	3.393	6.0	19.3	1 12	8 46.44	+31 16.2	1.900	2.846	6.6	20.6
1 22	8 34.01	+ 9 31.4	2.424	3.394	3.3	19.1	1 22	8 35.60	+31 26.5	1.863	2.831	4.3	20.4
2 1	8 26.29	+ 9 45.4	2.420	3.394	3.0	19.1	2 1	8 24.08	+31 22.7	1.855	2.816	5.4	20.4
2 11	8 18.97	+10 4.2	2.447	3.395	5.5	19.2	2 11	8 13.23	+31 2.6	1.875	2.800	8.6	20.6
2 21	8 12.75	+10 25.3	2.502	3.395	8.3	19.4	2 21	8 4.22	+30 27.2	1.923	2.785	12.0	20.8
3 2	8 8.15	+10 46.3	2.582	3.396	11.0	19.6	3 2	7 57.88	+29 39.4	1.993	2.769	15.1	20.9
<b>473931</b>	2016 <i>EM</i> <sub>161</sub>		1 26.1 9°31	8°3°/22.2	18		<b>209664</b>	2005 <i>CB</i> <sub>45</sub>		1 26.1 191°86	0°9°/25.6	18	
12 23	9 2.00	+36 42.0	1.508	2.344	15.9	21.0	12 23	8 59.09	+19 35.1	2.106	2.920	12.8	21.3
1 2	8 56.39	+37 51.6	1.448	2.344	12.6	20.8	1 2	8 53.12	+20 7.4	2.022	2.918	9.5	21.1
1 12	8 47.32	+38 52.5	1.411	2.345	9.7	20.6	1 12	8 44.91	+20 46.0	1.963	2.916	5.8	20.8
1 22	8 35.87	+39 34.1	1.399	2.347	8.3	20.6	1 22	8 35.13	+21 26.4	1.932	2.913	1.8	20.6
2 1	8 23.70	+39 48.1	1.412	2.349	9.6	20.6	2 1	8 24.77	+22 3.8	1.932	2.910	2.9	20.6
2 11	8 12.74	+39 32.3	1.450	2.351	12.5	20.8	2 11	8 14.95	+22 34.4	1.962	2.906	6.9	20.9
2 21	8 4.48	+38 50.1	1.510	2.354	15.7	21.0	2 21	8 6.69	+22 55.8	2.019	2.901	10.6	21.1
3 2	7 59.82	+37 47.7	1.590	2.357	18.6	21.2	3 2	8 0.73	+23 7.5	2.101	2.896	13.8	21.3
<b>134415</b>	1998 <i>HZ</i> <sub>33</sub>		1 26.1 257°96	6°5°/29.5	18		<b>79576</b>	1998 <i>QG</i> <sub>98</sub>		1 26.1 185°99	3°7°/28.4	18	
12 23	8 56.19	+ 0 58.3	1.909	2.672	15.8	20.6	12 23	8 59.07	+ 6 19.3	2.056	2.831	14.4	20.3
1 2	8 51.24	+ 0 33.5	1.806	2.653	13.1	20.4	1 2	8 53.07	+ 6 26.5	1.967	2.832	11.4	20.1
1 12	8 43.95	+ 0 28.1	1.724	2.634	10.0	20.1	1 12	8 44.87	+ 6 49.8	1.901	2.831	7.9	19.9
1 22	8 34.88	+ 0 43.9	1.668	2.615	7.4	19.9	1 22	8 35.13	+ 7 27.9	1.863	2.830	4.7	19.7
2 1	8 24.96	+ 1 20.5	1.638	2.594	6.6	19.8	2 1	8 24.77	+ 8 17.9	1.855	2.827	4.1	19.7
2 11	8 15.38	+ 2 14.2	1.637	2.574	8.7	19.9	2 11	8 14.92	+ 9 15.0	1.877	2.824	7.0	19.8
2 21	8 7.21	+ 3 19.4	1.662	2.552	12.0	20.1	2 21	8 6.53	+10 14.2	1.928	2.819	10.5	20.0
3 2	8 1.34	+ 4 29.9	1.710	2.531	15.4	20.2	3 2	8 0.37	+11 11.1	2.002	2.814	13.8	20.2
<b>184346</b>	2005 <i>HF</i> <sub>6</sub>		1 26.1 69°55	2°9°/27.9	18		<b>396845</b>	2004 <i>RW</i> <sub>235</sub>		1 26.1 188°20	1°0°/26.7	18	
12 23	9 0.14	+ 8 7.4	1.744	2.535	16.0	19.9	12 23	9 0.66	+15 2.8	1.978	2.782	13.9	22.1
1 2	8 53.67	+ 8 33.5	1.701	2.577	12.2	19.7	1 2	8 54.34	+15 10.7	1.892	2.781	10.5	21.9
1 12	8 45.01	+ 9 15.9	1.680	2.619	8.0	19.6	1 12	8 45.67	+15 27.7	1.831	2.780	6.6	21.6
1 22	8 35.06	+10 11.0	1.687	2.660	4.1	19.4	1 22	8 35.37	+15 51.0	1.798	2.778	2.3	21.4
2 1	8 24.94	+11 13.3	1.723	2.700	3.5	19.5	2 1	8 24.45	+16 16.8	1.796	2.775	2.6	21.4
2 11	8 15.81	+12 17.1	1.789	2.739	6.9	19.8	2 11	8 14.14	+16 41.4	1.823	2.772	6.9	21.6
2 21	8 8.57	+13 17.1	1.882	2.778	10.5	20.1	2 21	8 5.47	+17 2.1	1.878	2.768	10.8	21.9
3 2	8 3.79	+14 9.9	1.999	2.816	13.6	20.3	3 2	7 59.21	+17 17.3	1.956	2.762	14.2	22.1
<b>149867</b>	2005 <i>QX</i> <sub>90</sub>		1 26.1 222°02	1°0°/26.6	18		<b>146364</b>	2001 <i>PX</i> <sub>26</sub>		1 26.1 157°99	1°1°/25.5	18	
12 23	8 59.82	+14 12.0	1.719	2									

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>206839</b>	2004 EX <sub>71</sub>		1 26.1 279°05	3:2/24.2	18		<b>335920</b>	2007 SW <sub>18</sub>		1 26.2 70°04	2:1/27.3	18	R
12 23	8 57.40	+28 16.1	2.314	3.137	11.5	20.4	12 23	8 55.40	+12 20.0	2.182	2.983	12.9	20.3
1 2	8 51.75	+28 42.1	2.233	3.132	8.6	20.2	1 2	8 50.11	+12 8.6	2.109	2.994	9.8	20.1
1 12	8 44.01	+29 6.8	2.177	3.127	5.6	20.0	1 12	8 42.93	+12 6.7	2.061	3.005	6.4	19.9
1 22	8 34.85	+29 25.5	2.150	3.122	3.4	19.9	1 22	8 34.54	+12 12.6	2.040	3.015	3.0	19.8
2 1	8 25.21	+29 34.2	2.152	3.117	4.4	19.9	2 1	8 25.79	+12 24.3	2.049	3.026	2.8	19.8
2 11	8 16.17	+29 30.7	2.184	3.113	7.3	20.1	2 11	8 17.63	+12 39.0	2.087	3.037	6.1	20.0
2 21	8 8.64	+29 15.0	2.242	3.108	10.4	20.3	2 21	8 10.87	+12 54.1	2.153	3.048	9.4	20.2
3 2	8 3.29	+28 48.6	2.324	3.103	13.1	20.5	3 2	8 6.11	+13 7.7	2.243	3.059	12.3	20.4
<b>327476</b>	2005 YM <sub>47</sub>		1 26.2 186°15	4:6/22.6	18		<b>517682</b>	2015 DD <sub>216</sub>		1 26.2 160°81	1:4/27.1	18	
12 23	8 58.60	+30 19.5	2.316	3.137	11.5	21.4	12 23	9 0.95	+ 6 16.5	1.216	2.026	20.5	21.1
1 2	8 52.80	+31 36.6	2.241	3.137	8.8	21.2	1 2	8 55.91	+ 8 22.5	1.140	2.030	15.8	20.8
1 12	8 44.74	+32 52.9	2.193	3.136	6.1	21.1	1 12	8 47.33	+11 6.6	1.086	2.034	10.1	20.5
1 22	8 35.10	+34 1.4	2.174	3.135	4.6	21.0	1 22	8 36.05	+14 19.5	1.057	2.037	3.7	20.1
2 1	8 24.83	+34 56.0	2.185	3.133	5.8	21.0	2 1	8 23.53	+17 43.8	1.059	2.039	3.6	20.1
2 11	8 15.10	+35 32.7	2.224	3.131	8.4	21.2	2 11	8 11.74	+20 59.0	1.089	2.041	9.9	20.5
2 21	8 6.90	+35 50.9	2.290	3.129	11.2	21.4	2 21	8 2.42	+23 49.5	1.146	2.043	15.6	20.8
3 2	8 1.00	+35 52.2	2.379	3.126	13.7	21.5	3 2	7 56.78	+26 7.7	1.225	2.044	20.3	21.1
<b>36384</b>	2000 OJ <sub>31</sub>		1 26.2 324°39	4:1/28.1	18		<b>238536</b>	2004 VH <sub>6</sub>		1 26.2 151°77	0:8/26.6	18	
12 23	8 55.56	+ 8 2.9	1.430	2.242	17.8	18.8	12 23	8 59.98	+14 38.3	2.045	2.847	13.5	21.5
1 2	8 51.27	+ 8 2.9	1.351	2.238	14.0	18.5	1 2	8 53.69	+15 3.1	1.970	2.858	10.2	21.3
1 12	8 44.15	+ 8 23.1	1.293	2.234	9.6	18.2	1 12	8 45.20	+15 37.7	1.919	2.868	6.3	21.1
1 22	8 34.98	+ 9 2.3	1.259	2.231	5.3	18.0	1 22	8 35.24	+16 18.6	1.897	2.878	2.2	20.8
2 1	8 24.99	+ 9 56.5	1.251	2.227	4.6	17.9	2 1	8 24.80	+17 1.2	1.906	2.886	2.5	20.9
2 11	8 15.69	+10 58.9	1.270	2.224	8.6	18.1	2 11	8 15.01	+17 41.4	1.945	2.894	6.6	21.1
2 21	8 8.37	+12 2.6	1.313	2.221	13.2	18.4	2 21	8 6.81	+18 16.1	2.012	2.900	10.3	21.4
3 2	8 3.99	+13 1.6	1.378	2.218	17.3	18.6	3 2	8 0.92	+18 43.3	2.103	2.906	13.5	21.6
<b>204384</b>	2004 TW <sub>127</sub>		1 26.2 197°34	1:0/26.7	18		<b>277928</b>	2006 KV <sub>113</sub>		1 26.2 176°85	0:7/25.6	17	
12 23	8 58.97	+14 21.9	1.832	2.642	14.6	21.2	12 23	8 55.02	+20 28.3	3.104	3.909	9.3	21.9
1 2	8 53.30	+14 44.2	1.747	2.639	11.1	21.0	1 2	8 49.44	+20 51.7	3.019	3.911	6.9	21.8
1 12	8 45.15	+15 18.2	1.686	2.636	6.9	20.8	1 12	8 42.40	+21 18.1	2.961	3.913	4.1	21.6
1 22	8 35.24	+16 0.2	1.653	2.633	2.4	20.5	1 22	8 34.37	+21 45.0	2.933	3.914	1.3	21.4
2 1	8 24.64	+16 45.6	1.649	2.629	2.7	20.5	2 1	8 26.02	+22 9.5	2.938	3.915	2.1	21.4
2 11	8 14.64	+17 29.3	1.674	2.624	7.3	20.7	2 11	8 18.04	+22 29.4	2.973	3.915	4.9	21.6
2 21	8 6.33	+18 7.4	1.726	2.619	11.5	21.0	2 21	8 11.07	+22 43.2	3.039	3.915	7.6	21.8
3 2	8 0.56	+18 37.5	1.801	2.613	15.0	21.2	3 2	8 5.62	+22 50.6	3.129	3.914	9.9	22.0
<b>44588</b>	1999 JF <sub>124</sub>		1 26.2 223°88	0:9/25.6	18		<b>412195</b>	2013 GM <sub>101</sub>		1 26.2 196°44	3:2/27.9	18	
12 23	8 59.91	+10 39.9	1.219	2.043	19.6	18.3	12 23	8 56.85	+ 8 45.0	1.926	2.720	14.6	21.6
1 2	8 55.33	+13 3.8	1.138	2.039	14.8	18.0	1 2	8 51.57	+ 8 47.5	1.841	2.718	11.4	21.4
1 12	8 47.13	+16 3.3	1.079	2.035	9.0	17.6	1 12	8 44.05	+ 9 4.7	1.778	2.716	7.7	21.2
1 22	8 36.01	+19 26.7	1.048	2.030	2.6	17.2	1 22	8 34.94	+ 9 35.3	1.742	2.713	4.2	20.9
2 1	8 23.42	+22 54.6	1.046	2.024	4.5	17.3	2 1	8 25.22	+10 16.0	1.735	2.711	3.7	20.9
2 11	8 11.38	+26 6.1	1.073	2.019	10.9	17.7	2 11	8 16.04	+11 2.4	1.757	2.707	7.0	21.1
2 21	8 1.75	+28 46.8	1.125	2.013	16.7	18.0	2 21	8 8.38	+11 49.8	1.807	2.704	10.8	21.3
3 2	7 55.91	+30 51.5	1.198	2.006	21.3	18.2	3 2	8 3.02	+12 34.4	1.880	2.700	14.2	21.5
<b>1125</b>	China		1 26.2 10°17	0:9/25.6	18	R	<b>27077</b>	1998 TL <sub>2</sub>		1 26.2 86°02	2:7/25.0	18	
12 23	8 52.40	+19 4.3	1.613	2.451	14.9	15.4	12 23	9 3.55	+23 16.3	1.417	2.251	16.8	19.1
1 2	8 48.61	+19 37.3	1.545	2.455	11.0	15.2	1 2	8 57.07	+23 52.6	1.364	2.270	12.4	18.9
1 12	8 42.34	+20 18.9	1.501	2.459	6.6	14.9	1 12	8 47.51	+24 32.7	1.333	2.289	7.6	18.7
1 22	8 34.40	+21 3.8	1.483	2.465	2.0	14.7	1 22	8 35.95	+25 9.0	1.329	2.309	3.1	18.4
2 1	8 25.91	+21 46.4	1.492	2.471	3.2	14.8	2 1	8 23.96	+25 35.1	1.353	2.327	4.6	18.6
2 11	8 18.17	+22 21.4	1.528	2.479	7.8	15.0	2 11	8 13.22	+25 46.9	1.403	2.346	9.2	18.9
2 21	8 12.26	+22 46.0	1.589	2.487	12.0	15.3	2 21	8 5.00	+25 44.4	1.478	2.364	13.5	19.2
3 2	8 8.93	+22 59.1	1.672	2.497	15.5	15.6	3 2	8 0.07	+25 29.5	1.575	2.382	17.1	19.5
<b>277584</b>	2005 YM <sub>279</sub>		1 26.2 180°79	1:1/25.4	18		<b>4250</b>	Perun		1 26.2 154°28	0:9/25.5	18	
12 23	8 55.92	+19 38.4	2.268	3.084	11.9	20.9	12 23	8 54.36	+20 24.7	2.682	3.495	10.4	17.5
1 2	8 50.63	+20 22.5	2.187	3.085	8.8	20.7	1 2	8 49.17	+20 53.5	2.603	3.500	7.7	17.3
1 12	8 43.35	+21 12.9	2.131	3.085	5.3	20.5	1 12	8 42.32	+21 26.2	2.551	3.504	4.6	17.2
1 22	8 34.68	+22 5.1	2.104	3.085	1.7	20.3	1 22	8 34.38	+21 59.6	2.527	3.508	1.5	16.9
2 1	8 25.50	+22 54.4	2.108	3.085	2.8	20.4	2 1	8 26.07	+22 30.3	2.535	3.512	2.4	17.0
2 11	8 16.81	+23 36.5	2.141	3.084	6.5	20.6	2 11	8 18.21	+22 55.5	2.573	3.516	5.5	17.2
2 21	8 9.49	+24 8.9	2.203	3.083	9.9	20.8	2 21	8 11.51	+23 13.5	2.639	3.519	8.5	17.4
3 2	8 4.23	+24 30.9	2.288	3.082	12.8	21.0	3 2	8 6.52	+23 23.9	2.731	3.522	11.0	17.6
<b>45155</b>	1999 XW <sub>113</sub>		1 26.2 247°34	2:9/24.9	18		<b>71447</b>	2000 AY <sub>239</sub>		1 26.2 75°51	0:7/26.6	18	
12 23	9 3.15	+26 11.9	1.874	2.695	13.8	18.4	12 23	8 55.37	+15 26.3	2.039	2.852	13.2	19.6
1 2	8 56.57	+26 27.1	1.783	2.682	10.4	18.2	1 2	8 50.26	+15 42.4	1.968	2.863	9.9	19.4
1 12	8 47.22	+26 42.2	1.716	2.669	6.6	17.9	1 12	8 43.12	+16 7.3	1.922	2.873	6.1	19.2
1 22	8 35.89	+26 51.6	1.677	2.654	3.2	17.7	1 22	8 34.64	+16 37.9	1.903	2.884	2.0	18.9
2 1	8 23.80	+26 50.6	1.668	2.640	4.4	17.7	2 1	8 25.74	+17 10.3	1.914	2.894	2.4	19.0
2 11	8 12.39	+26 36.5	1.688	2.625	8.4	17.9	2 11	8 17.47	+17 40.8	1.954	2.905	6.3	19.3
2 21	8 2.92	+26 9.6	1.734	2.610	12.4	18.1	2 21	8 10.71	+18 6.7	2.021	2.915	10.0	19.5
3 2	7 56.27	+25 32.3	1.803	2.594	15.9	18.3	3 2	8 6.11	+18 26.1	2.112	2.925	13.1	19.7
<b>466499</b>	2013 WA <sub>63</sub>		1 26.2 73°83	2:7/24.1	18		<b>133840</b>	2003 YT <sub>48</sub>		1 26.2 72°04	1:8/24.9	18	
12 23	8 56.00	+23 15.3	2.182	3.006	12.1	20.5	12 23	8 55.73	+22 3.5	2.068	2.893	12.6	20.0
1 2	8 50.67	+24 32.											

EPHEMERIDES

1 26.2

1 26.2

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>191968</b>	2005 VA <sub>43</sub>		1 26.2 150°48	1°8/25.2	18		<b>350720</b>	2001 XR <sub>147</sub>		1 26.2 41°19	1°7/26.9	18	
12 23	9 1.81	+21 7.1	1.768	2.589	14.6	20.9	12 23	8 57.64	+13 46.0	1.142	1.982	19.6	20.6
1 2	8 55.46	+21 53.5	1.698	2.598	10.8	20.7	1 2	8 53.06	+13 56.4	1.093	2.000	14.8	20.3
1 12	8 46.47	+22 45.9	1.652	2.606	6.5	20.5	1 12	8 45.26	+14 23.6	1.063	2.018	9.2	20.1
1 22	8 35.68	+23 38.3	1.634	2.614	2.4	20.2	1 22	8 35.35	+15 2.7	1.056	2.037	3.4	19.8
2 1	8 24.29	+24 24.0	1.646	2.622	3.8	20.3	2 1	8 24.93	+15 47.2	1.075	2.056	3.5	19.9
2 11	8 13.71	+24 58.5	1.687	2.628	8.0	20.6	2 11	8 15.77	+16 30.0	1.119	2.076	9.0	20.2
2 21	8 5.09	+25 19.7	1.754	2.634	12.0	20.8	2 21	8 9.20	+17 6.2	1.186	2.097	14.0	20.6
3 2	7 59.24	+25 27.9	1.843	2.639	15.4	21.1	3 2	8 5.99	+17 32.7	1.274	2.119	18.1	20.9
<b>94987</b>	2001 YK <sub>118</sub>		1 26.2 35°25	2°4/25.1	18		<b>241161</b>	2007 RN <sub>93</sub>		1 26.2 185°67	0°6/25.8	18	
12 23	8 57.37	+20 47.6	1.208	2.058	18.1	19.3	12 23	8 59.30	+18 1.2	1.985	2.798	13.5	21.4
1 2	8 52.99	+21 39.6	1.153	2.068	13.4	19.1	1 2	8 53.42	+18 38.5	1.903	2.799	10.1	21.2
1 12	8 45.31	+22 41.0	1.119	2.078	8.1	18.8	1 12	8 45.20	+19 24.1	1.845	2.798	6.1	20.9
1 22	8 35.37	+23 43.2	1.109	2.090	3.0	18.5	1 22	8 35.34	+20 13.3	1.816	2.797	1.8	20.7
2 1	8 24.77	+24 37.2	1.125	2.102	4.7	18.7	2 1	8 24.84	+21 0.9	1.816	2.795	2.8	20.7
2 11	8 15.33	+25 16.2	1.166	2.115	9.9	19.0	2 11	8 14.93	+21 42.1	1.847	2.793	7.1	21.0
2 21	8 8.48	+25 37.8	1.231	2.128	14.7	19.3	2 21	8 6.64	+22 14.0	1.905	2.790	11.0	21.2
3 2	8 5.07	+25 42.6	1.315	2.142	18.7	19.6	3 2	8 0.75	+22 35.6	1.986	2.786	14.3	21.4
<b>161225</b>	2002 XN <sub>56</sub>		1 26.2 80°25	3°6/27.9	18		<b>415625</b>	2014 QD <sub>371</sub>		1 26.2 239°14	1°1/25.6	18	
12 23	8 58.83	+ 9 18.1	2.240	3.023	13.2	18.7	12 23	8 59.25	+19 40.3	1.837	2.658	14.1	21.9
1 2	8 52.51	+ 8 33.3	2.170	3.040	10.3	18.6	1 2	8 53.70	+20 12.1	1.746	2.646	10.6	21.7
1 12	8 44.33	+ 7 58.4	2.125	3.056	7.1	18.4	1 12	8 45.55	+20 51.6	1.680	2.635	6.4	21.4
1 22	8 34.97	+ 7 33.5	2.107	3.073	4.3	18.2	1 22	8 35.50	+21 33.8	1.641	2.622	2.0	21.1
2 1	8 25.32	+ 7 18.1	2.120	3.090	3.9	18.2	2 1	8 24.64	+22 13.2	1.631	2.609	3.2	21.2
2 11	8 16.33	+ 7 10.6	2.163	3.106	6.4	18.4	2 11	8 14.31	+22 44.8	1.650	2.596	7.8	21.4
2 21	8 8.78	+ 7 8.9	2.234	3.122	9.4	18.6	2 21	8 5.71	+23 6.1	1.695	2.582	12.0	21.6
3 2	8 3.25	+ 7 10.6	2.330	3.139	12.2	18.9	3 2	7 59.74	+23 16.4	1.764	2.568	15.7	21.8
<b>129003</b>	2004 TJ <sub>268</sub>		1 26.2 126°88	0°2/26.3	18		<b>122810</b>	2000 SS <sub>100</sub>		1 26.2 65°25	1°1/26.7	18	
12 23	8 55.90	+16 23.4	2.121	2.933	12.8	20.3	12 23	8 58.68	+16 13.2	1.814	2.630	14.5	19.4
1 2	8 50.65	+16 47.3	2.045	2.940	9.5	20.1	1 2	8 52.92	+16 0.6	1.744	2.639	10.9	19.2
1 12	8 43.37	+17 19.3	1.994	2.946	5.8	19.9	1 12	8 44.83	+15 55.6	1.698	2.649	6.8	19.0
1 22	8 34.73	+17 55.9	1.971	2.952	1.8	19.6	1 22	8 35.21	+15 55.9	1.679	2.659	2.4	18.7
2 1	8 25.64	+18 33.3	1.978	2.958	2.4	19.7	2 1	8 25.16	+15 58.7	1.689	2.669	2.7	18.8
2 11	8 17.12	+19 7.3	2.015	2.964	6.3	20.0	2 11	8 15.90	+16 1.3	1.728	2.679	7.0	19.0
2 21	8 10.06	+19 35.5	2.079	2.970	9.9	20.2	2 21	8 8.42	+16 1.9	1.793	2.690	10.9	19.3
3 2	8 5.12	+19 56.1	2.167	2.975	13.0	20.4	3 2	8 3.42	+15 59.2	1.882	2.700	14.3	19.5
<b>258457</b>	2001 YW <sub>89</sub>		1 26.2 50°90	1°2/26.7	18		<b>522446</b>	2016 CO <sub>319</sub>		1 26.2 269°56	1°8/27.5	17	
12 23	9 0.97	+15 52.5	1.480	2.303	16.8	20.2	12 23	8 53.35	+10 39.6	2.099	2.901	13.3	21.6
1 2	8 54.70	+15 42.7	1.435	2.334	12.5	20.0	1 2	8 48.88	+11 10.3	2.012	2.897	10.2	21.4
1 12	8 45.84	+15 42.7	1.413	2.365	7.7	19.8	1 12	8 42.40	+11 54.8	1.949	2.893	6.6	21.2
1 22	8 35.42	+15 49.3	1.417	2.397	2.7	19.5	1 22	8 34.51	+12 50.5	1.913	2.889	2.9	20.9
2 1	8 24.82	+15 58.7	1.449	2.429	3.0	19.6	2 1	8 26.06	+13 53.0	1.906	2.886	2.7	20.9
2 11	8 15.42	+16 7.6	1.508	2.461	7.6	20.0	2 11	8 18.05	+14 57.1	1.930	2.882	6.3	21.1
2 21	8 8.26	+16 13.7	1.593	2.493	11.8	20.3	2 21	8 11.37	+15 58.2	1.981	2.878	10.0	21.3
3 2	8 3.94	+16 15.6	1.700	2.525	15.2	20.6	3 2	8 6.74	+16 52.6	2.056	2.874	13.2	21.5
<b>366973</b>	2005 WC <sub>145</sub>		1 26.2 149°07	1°1/26.8	18		<b>110811</b>	2001 UD <sub>47</sub>		1 26.2 129°28	1°5/27.4	18	
12 23	8 57.01	+14 40.1	2.169	2.973	12.8	21.8	12 23	8 53.46	+11 45.5	2.758	3.549	10.7	20.3
1 2	8 51.41	+14 48.3	2.090	2.979	9.6	21.6	1 2	8 48.39	+12 1.2	2.681	3.561	8.2	20.2
1 12	8 43.81	+15 5.0	2.036	2.985	6.0	21.4	1 12	8 41.82	+12 25.6	2.630	3.572	5.2	20.0
1 22	8 34.86	+15 27.7	2.011	2.990	2.2	21.1	1 22	8 34.28	+12 56.8	2.607	3.584	2.3	19.8
2 1	8 25.48	+15 53.2	2.015	2.995	2.4	21.2	2 1	8 26.43	+13 32.2	2.616	3.594	2.2	19.8
2 11	8 16.66	+16 18.1	2.050	3.000	6.2	21.4	2 11	8 19.00	+14 8.7	2.655	3.605	5.0	20.0
2 21	8 9.29	+16 40.0	2.112	3.004	9.7	21.6	2 21	8 12.64	+14 43.6	2.724	3.615	7.8	20.2
3 2	8 4.01	+16 56.9	2.199	3.008	12.8	21.9	3 2	8 7.85	+15 14.9	2.818	3.624	10.3	20.4
<b>461306</b>	2015 XA <sub>166</sub>		1 26.2 67°78	6°3/30.2	18		<b>401999</b>	2003 NG		1 26.2 210°85	0°2/26.1	17	
12 23	8 56.55	+ 0 36.1	1.472	2.252	18.9	21.3	12 23	8 59.12	+16 44.1	2.162	2.968	12.8	22.4
1 2	8 51.62	+ 0 46.8	1.415	2.275	15.3	21.1	1 2	8 53.22	+17 21.8	2.068	2.960	9.6	22.2
1 12	8 44.13	+ 1 24.7	1.378	2.297	11.3	20.9	1 12	8 45.08	+18 8.6	2.000	2.951	5.9	21.9
1 22	8 34.98	+ 2 28.6	1.365	2.320	7.6	20.7	1 22	8 35.34	+19 0.5	1.960	2.942	1.8	21.6
2 1	8 25.38	+ 3 53.4	1.378	2.343	6.4	20.7	2 1	8 24.91	+19 52.5	1.951	2.931	2.5	21.7
2 11	8 16.69	+ 5 30.6	1.418	2.365	8.7	20.9	2 11	8 14.91	+20 39.8	1.973	2.919	6.7	21.9
2 21	8 9.99	+ 7 10.7	1.484	2.388	12.3	21.2	2 21	8 6.34	+21 19.3	2.023	2.907	10.5	22.1
3 2	8 6.00	+ 8 45.9	1.574	2.410	15.7	21.5	3 2	7 59.99	+21 49.2	2.097	2.894	13.7	22.3
<b>92987</b>	2000 RB <sub>73</sub>		1 26.2 26°86	3°6/27.8	18		<b>124633</b>	2001 SR <sub>63</sub>		1 26.2 316°25	4°8/24.1	18	
12 23	8 54.33	+ 9 49.1	1.120	1.957	20.1	18.2	12 23	8 58.48	+26 30.9	1.260	2.112	17.4	18.9
1 2	8 50.69	+ 9 48.9	1.066	1.968	15.5	18.0	1 2	8 54.31	+27 21.3	1.181	2.096	13.2	18.6
1 12	8 43.89	+10 10.6	1.031	1.980	10.3	17.7	1 12	8 46.50	+28 15.7	1.123	2.080	8.6	18.3
1 22	8 34.96	+10 51.6	1.018	1.994	5.1	17.5	1 22	8 35.90	+29 4.7	1.089	2.065	5.0	18.1
2 1	8 25.41	+11 45.7	1.030	2.009	4.5	17.5	2 1	8 24.10	+29 38.4	1.081	2.050	6.7	18.1
2 11	8 16.99	+12 44.9	1.066	2.025	9.2	17.8	2 11	8 13.15	+29 50.7	1.096	2.036	11.6	18.4
2 21	8 11.02	+13 41.8	1.126	2.042	14.1	18.1	2 21	8 4.82	+29 40.6	1.134	2.023	16.5	18.6
3 2	8 8.34	+14 30.6	1.205	2.059	18.3	18.4	3 2	8 0.29	+29 11.1	1.191	2.010	20.8	18.8
<b>267616</b>	2002 RK <sub>172</sub>		1 26.2 172°45	2°8/24.7	18		<b>116562</b>	2004 BH <sub>83</sub>		1 26.2 297°49	3°6/27.9	18	
12 23	9 2.71	+23 19.4	1.722	2.546	14.7	21.3	12 23	8 56.12	+ 8 53.3	1.309	2.130	18.7	20.1

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>435920</b>	2009 <i>BW</i> <sub>98</sub>		1 26.2 334°89	2°1/25.0	18		<b>304907</b>	2007 <i>RY</i> <sub>277</sub>		1 26.2 168°34	4°5/23.2	18	
12 23	8 57.25	+24 50.0	2.165	2.988	12.1	20.8	12 23	9 2.41	+29 23.1	2.131	2.949	12.5	21.1
1 2	8 51.74	+25 4.3	2.084	2.985	9.1	20.6	1 2	8 55.78	+30 34.7	2.060	2.955	9.5	20.9
1 12	8 44.10	+25 19.4	2.029	2.983	5.6	20.4	1 12	8 46.67	+31 45.4	2.015	2.960	6.4	20.8
1 22	8 35.01	+25 31.3	2.002	2.981	2.5	20.2	1 22	8 35.84	+32 48.0	1.999	2.964	4.6	20.7
2 1	8 25.46	+25 36.3	2.005	2.979	3.5	20.2	2 1	8 24.40	+33 35.9	2.013	2.967	5.8	20.7
2 11	8 16.53	+25 32.1	2.037	2.977	7.0	20.4	2 11	8 13.63	+34 5.3	2.056	2.969	8.7	20.9
2 21	8 9.15	+25 18.3	2.096	2.975	10.4	20.6	2 21	8 4.62	+34 15.9	2.126	2.971	11.7	21.1
3 2	8 4.00	+24 55.8	2.178	2.973	13.3	20.8	3 2	7 58.18	+34 10.0	2.218	2.972	14.4	21.3
<b>419057</b>	2009 <i>RL</i> <sub>73</sub>		1 26.2 51°95	4°7/29.1	18		<b>403591</b>	2010 <i>PF</i> <sub>58</sub>		1 26.2 164°63	0°3/26.4	18	
12 23	8 54.47	+ 4 47.1	1.692	2.483	16.4	21.1	12 23	8 58.97	+16 19.0	2.111	2.918	13.0	22.3
1 2	8 49.87	+ 4 48.2	1.629	2.500	13.0	20.9	1 2	8 52.98	+16 42.2	2.032	2.923	9.8	22.1
1 12	8 43.02	+ 5 9.1	1.588	2.517	9.2	20.7	1 12	8 44.86	+17 13.6	1.978	2.929	6.0	21.9
1 22	8 34.70	+ 5 48.7	1.572	2.535	5.8	20.6	1 22	8 35.28	+17 49.7	1.952	2.933	1.9	21.6
2 1	8 25.95	+ 6 43.2	1.583	2.553	4.9	20.5	2 1	8 25.19	+18 26.3	1.956	2.937	2.4	21.7
2 11	8 17.95	+ 7 46.8	1.622	2.571	7.6	20.7	2 11	8 15.70	+18 59.5	1.991	2.940	6.5	21.9
2 21	8 11.65	+ 8 53.0	1.687	2.590	11.1	21.0	2 21	8 7.72	+19 26.6	2.054	2.942	10.2	22.2
3 2	8 7.73	+ 9 56.5	1.775	2.608	14.3	21.2	3 2	8 1.97	+19 46.2	2.141	2.944	13.3	22.4
<b>344460</b>	2002 <i>NH</i> <sub>20</sub>		1 26.2 217°84	3°8/27.9	18		<b>379009</b>	2008 <i>UN</i> <sub>350</sub>		1 26.2 50°43	1°3/25.4	18	
12 23	9 0.55	+ 8 34.2	1.745	2.537	15.9	22.0	12 23	8 55.45	+20 29.0	1.937	2.764	13.2	21.2
1 2	8 54.68	+ 8 23.9	1.653	2.529	12.5	21.8	1 2	8 50.51	+21 3.5	1.872	2.775	9.8	21.0
1 12	8 46.17	+ 8 29.0	1.583	2.519	8.6	21.5	1 12	8 43.39	+21 43.6	1.831	2.787	5.9	20.8
1 22	8 35.72	+ 8 48.8	1.539	2.509	4.8	21.2	1 22	8 34.84	+22 24.6	1.818	2.799	2.0	20.6
2 1	8 24.44	+ 9 20.7	1.524	2.498	4.3	21.2	2 1	8 25.86	+23 1.4	1.834	2.811	3.1	20.7
2 11	8 13.67	+10 0.3	1.538	2.487	7.9	21.4	2 11	8 17.57	+23 30.2	1.878	2.823	7.0	20.9
2 21	8 4.63	+10 42.9	1.578	2.474	12.2	21.6	2 21	8 10.93	+23 49.0	1.949	2.836	10.6	21.2
3 2	7 58.24	+11 23.9	1.642	2.461	16.0	21.8	3 2	8 6.58	+23 57.5	2.043	2.849	13.7	21.4
<b>303465</b>	2005 <i>CM</i> <sub>26</sub>		1 26.2 45°37	3°6/24.6	18		<b>288609</b>	2004 <i>LE</i> <sub>26</sub>		1 26.2 234°85	0°1/26.3	17	
12 23	9 0.43	+25 28.0	1.410	2.252	16.4	20.1	12 23	8 56.55	+16 0.1	2.309	3.115	12.1	21.5
1 2	8 55.01	+26 6.5	1.350	2.259	12.3	19.9	1 2	8 51.23	+16 35.0	2.210	3.101	9.1	21.3
1 12	8 46.45	+26 47.1	1.311	2.267	7.7	19.6	1 12	8 43.87	+17 19.1	2.136	3.087	5.6	21.0
1 22	8 35.77	+27 22.0	1.298	2.275	3.9	19.4	1 22	8 35.02	+18 8.9	2.090	3.071	1.7	20.8
2 1	8 24.49	+27 44.4	1.312	2.284	5.4	19.5	2 1	8 25.52	+19 0.0	2.076	3.056	2.3	20.8
2 11	8 14.30	+27 50.2	1.352	2.292	9.7	19.8	2 11	8 16.36	+19 48.1	2.092	3.039	6.3	21.0
2 21	8 6.57	+27 39.7	1.416	2.301	14.0	20.1	2 21	8 8.46	+20 29.8	2.136	3.022	9.9	21.2
3 2	8 2.12	+27 15.3	1.500	2.311	17.6	20.3	3 2	8 2.56	+21 3.2	2.204	3.004	13.0	21.4
<b>79525</b>	1998 <i>OZ</i> <sub>9</sub>		1 26.2 156°26	0°1/26.1	18		<b>252656</b>	2001 <i>YD</i> <sub>110</sub>		1 26.2 38°84	1°9/25.0	18	R
12 23	9 3.40	+18 10.7	1.906	2.714	14.2	20.4	12 23	8 55.10	+18 59.3	1.470	2.309	16.0	19.2
1 2	8 56.41	+18 23.2	1.831	2.724	10.6	20.2	1 2	8 50.83	+20 14.4	1.415	2.325	11.8	19.0
1 12	8 46.98	+18 42.1	1.781	2.733	6.4	19.9	1 12	8 43.83	+21 40.1	1.384	2.342	7.1	18.8
1 22	8 35.90	+19 3.7	1.759	2.741	1.9	19.6	1 22	8 35.01	+23 8.0	1.378	2.359	2.5	18.5
2 1	8 24.31	+19 23.8	1.768	2.748	2.7	19.7	2 1	8 25.64	+24 29.2	1.400	2.377	4.1	18.7
2 11	8 13.50	+19 39.0	1.807	2.754	7.1	20.0	2 11	8 17.18	+25 36.3	1.450	2.395	8.7	19.0
2 21	8 4.53	+19 47.6	1.873	2.759	11.1	20.3	2 21	8 10.80	+26 25.8	1.524	2.414	12.9	19.3
3 2	7 58.15	+19 49.2	1.963	2.763	14.4	20.5	3 2	8 7.27	+26 57.2	1.619	2.433	16.4	19.6
<b>409006</b>	2002 <i>XS</i> <sub>73</sub>		1 26.2 42°34	3°2/27.3	18		<b>25830</b>	2000 <i>DN</i> <sub>110</sub>		1 26.2 138°65	3°0/28.4	18	
12 23	9 0.33	+13 5.3	1.366	2.188	18.0	20.2	12 23	8 56.18	+ 6 39.3	2.118	2.899	13.9	18.9
1 2	8 54.56	+12 23.4	1.312	2.208	13.7	20.0	1 2	8 50.85	+ 7 11.8	2.041	2.910	10.8	18.7
1 12	8 45.95	+11 53.9	1.280	2.228	8.9	19.8	1 12	8 43.55	+ 8 0.9	1.987	2.921	7.4	18.6
1 22	8 35.58	+11 36.1	1.273	2.249	4.3	19.6	1 22	8 34.89	+ 9 3.9	1.961	2.930	4.0	18.4
2 1	8 24.85	+11 27.8	1.293	2.271	4.1	19.6	2 1	8 25.77	+10 16.5	1.965	2.940	3.4	18.3
2 11	8 15.28	+11 26.1	1.340	2.293	8.3	19.9	2 11	8 17.18	+11 33.2	1.999	2.949	6.3	18.5
2 21	8 8.03	+11 27.9	1.411	2.315	12.7	20.2	2 21	8 9.99	+12 48.3	2.062	2.957	9.8	18.8
3 2	8 3.79	+11 30.4	1.503	2.338	16.4	20.5	3 2	8 4.86	+13 57.7	2.150	2.965	12.8	19.0
<b>175953</b>	2000 <i>GQ</i> <sub>182</sub>		1 26.2 326°36	0°8/26.6	18		<b>109000</b>	2001 <i>PZ</i> <sub>64</sub>		1 26.2 37°07	4°6/29.0	18	
12 23	8 52.63	+13 52.7	1.421	2.256	16.7	19.7	12 23	8 53.28	+ 4 46.2	2.098	2.878	14.0	19.2
1 2	8 49.35	+14 30.4	1.334	2.239	12.7	19.4	1 2	8 48.71	+ 4 27.5	2.021	2.883	11.2	19.0
1 12	8 43.21	+15 25.9	1.268	2.223	8.0	19.1	1 12	8 42.25	+ 4 24.1	1.966	2.889	8.1	18.8
1 22	8 34.89	+16 34.9	1.227	2.208	2.7	18.8	1 22	8 34.51	+ 4 36.0	1.937	2.895	5.4	18.7
2 1	8 25.59	+17 50.3	1.212	2.194	3.1	18.7	2 1	8 26.33	+ 5 1.5	1.936	2.901	4.8	18.7
2 11	8 16.81	+19 3.9	1.224	2.180	8.6	19.0	2 11	8 18.68	+ 5 37.3	1.964	2.907	6.9	18.8
2 21	8 9.97	+20 8.7	1.260	2.167	13.7	19.3	2 21	8 12.37	+ 6 19.1	2.018	2.914	9.9	19.0
3 2	8 6.12	+21 0.3	1.317	2.155	18.1	19.5	3 2	8 8.03	+ 7 2.7	2.097	2.921	12.8	19.2
<b>346959</b>	2010 <i>BM</i> <sub>54</sub>		1 26.2 219°88	1°9/24.8	17		<b>251010</b>	2006 <i>PU</i> <sub>31</sub>		1 26.2 258°04	3°0/28.0	17	
12 23	8 54.84	+23 17.2	2.545	3.364	10.7	21.7	12 23	8 56.33	+ 8 13.4	1.870	2.664	14.9	21.3
1 2	8 49.74	+23 54.4	2.460	3.359	7.9	21.5	1 2	8 51.51	+ 8 34.8	1.768	2.646	11.7	21.1
1 12	8 42.82	+24 34.6	2.402	3.355	4.9	21.3	1 12	8 44.28	+ 9 13.9	1.688	2.627	8.0	20.8
1 22	8 34.65	+25 13.5	2.372	3.350	2.1	21.1	1 22	8 35.21	+10 9.1	1.635	2.608	4.2	20.5
2 1	8 26.01	+25 47.2	2.373	3.346	3.2	21.2	2 1	8 25.27	+11 16.5	1.611	2.588	3.6	20.4
2 11	8 17.81	+26 12.6	2.404	3.341	6.3	21.4	2 11	8 15.65	+12 30.0	1.616	2.568	7.3	20.6
2 21	8 10.84	+26 28.1	2.462	3.335	9.3	21.6	2 21	8 7.50	+13 43.4	1.649	2.547	11.5	20.8
3 2	8 5.72	+26 33.7	2.545	3.330	11.9	21.8	3 2	8 1.74	+14 51.5	1.705	2.526	15.3	21.0
<b>422874</b>	2002 <i>QL</i> <sub>13</sub>		1 26.2 99°54	1°2/25.6	18		<b>336930</b>	2011 <i>HF</i> <sub>57</sub>		1 26.2 154°76	2°4/28.1	18	
12 23	8 59.00	+22 23.3	2.253	3.069	12.0	21.1							

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>105097</b>	2000 <i>LL</i> <sub>3</sub>		1 26.2 236°55	1°4/27.1	18		<b>257437</b>	2010 <i>NW</i> <sub>68</sub>		1 26.2 160°06	3°8/28.7	18	
12 23	8 55.81	+12 10.0	2.123	2.924	13.2	20.5	12 23	8 56.03	+5 50.1	2.013	2.794	14.5	21.6
1 2	8 50.80	+12 38.2	2.027	2.913	10.1	20.3	1 2	8 50.89	+6 3.1	1.931	2.798	11.4	21.4
1 12	8 43.67	+13 19.0	1.955	2.901	6.4	20.1	1 12	8 43.66	+6 33.2	1.872	2.802	8.0	21.2
1 22	8 35.00	+14 9.7	1.911	2.889	2.6	19.8	1 22	8 34.99	+7 18.9	1.840	2.806	4.7	21.0
2 1	8 25.66	+15 6.0	1.897	2.877	2.5	19.8	2 1	8 25.78	+8 16.8	1.837	2.809	4.0	20.9
2 11	8 16.71	+16 3.1	1.913	2.864	6.4	20.0	2 11	8 17.09	+9 21.7	1.864	2.812	6.8	21.1
2 21	8 9.10	+16 56.6	1.957	2.851	10.3	20.2	2 21	8 9.85	+10 28.3	1.918	2.815	10.3	21.3
3 2	8 3.60	+17 43.2	2.025	2.837	13.6	20.4	3 2	8 4.76	+11 31.7	1.997	2.817	13.5	21.5
<b>328774</b>	2009 <i>UV</i> <sub>118</sub>		1 26.2 146°78	3°0/27.9	18		<b>10259</b>	Osipovyurij		1 26.2 233°94	5°9/30.9	18	
12 23	8 55.42	+9 0.8	2.023	2.817	14.0	21.6	12 23	8 52.41	-3 57.5	2.988	3.702	11.7	18.3
1 2	8 50.42	+9 3.0	1.942	2.820	10.9	21.4	1 2	8 47.69	-4 19.1	2.883	3.689	9.9	18.2
1 12	8 43.36	+9 19.0	1.884	2.822	7.3	21.2	1 12	8 41.52	-4 25.4	2.800	3.675	8.0	18.0
1 22	8 34.88	+9 47.1	1.854	2.825	3.9	21.0	1 22	8 34.32	-4 15.4	2.744	3.661	6.4	17.9
2 1	8 25.89	+10 24.5	1.852	2.827	3.4	20.9	2 1	8 26.68	-3 49.4	2.716	3.647	5.9	17.8
2 11	8 17.43	+11 7.1	1.879	2.830	6.6	21.1	2 11	8 19.29	-3 9.2	2.718	3.632	6.8	17.9
2 21	8 10.43	+11 50.5	1.934	2.832	10.2	21.3	2 21	8 12.76	-2 18.2	2.747	3.617	8.6	18.0
3 2	8 5.55	+12 31.3	2.013	2.834	13.4	21.6	3 2	8 7.64	-1 20.5	2.802	3.601	10.6	18.1
<b>196335</b>	2003 <i>FH</i> <sub>68</sub>		1 26.2 15°75	4°9/24.0	18		<b>415478</b>	2014 <i>OP</i> <sub>194</sub>		1 26.2 174°73	0°3/26.0	18	
12 23	8 58.31	+25 51.3	1.194	2.048	17.9	19.6	12 23	8 58.85	+17 44.2	2.084	2.895	13.0	22.1
1 2	8 54.05	+26 56.3	1.135	2.051	13.5	19.3	1 2	8 53.00	+18 15.5	2.003	2.897	9.7	21.9
1 12	8 46.20	+28 5.4	1.096	2.054	8.6	19.1	1 12	8 44.95	+18 54.5	1.947	2.900	5.9	21.6
1 22	8 35.83	+29 8.2	1.082	2.057	5.0	18.9	1 22	8 35.38	+19 37.1	1.920	2.901	1.8	21.3
2 1	8 24.61	+29 54.4	1.093	2.062	6.8	19.0	2 1	8 25.27	+20 18.5	1.923	2.902	2.6	21.4
2 11	8 14.56	+30 18.0	1.128	2.067	11.4	19.2	2 11	8 15.71	+20 54.6	1.956	2.903	6.7	21.7
2 21	8 7.26	+30 18.5	1.186	2.073	16.0	19.5	2 21	8 7.70	+21 22.8	2.016	2.902	10.4	21.9
3 2	8 3.67	+29 59.2	1.262	2.080	19.9	19.8	3 2	8 1.96	+21 41.9	2.101	2.901	13.6	22.1
<b>162653</b>	2000 <i>SM</i> <sub>230</sub>		1 26.2 160°68	0°4/26.5	18		<b>373981</b>	2003 <i>YW</i> <sub>141</sub>		1 26.2 84°59	5°5/22.5	18	
12 23	9 0.02	+15 52.9	1.986	2.793	13.7	21.3	12 23	8 58.64	+33 26.6	2.168	2.992	12.1	20.2
1 2	8 53.89	+16 14.9	1.908	2.800	10.3	21.1	1 2	8 52.95	+34 32.2	2.109	3.002	9.4	20.0
1 12	8 45.48	+16 45.8	1.855	2.806	6.3	20.9	1 12	8 44.93	+35 33.2	2.075	3.013	6.8	19.9
1 22	8 35.52	+17 22.1	1.831	2.811	2.0	20.6	1 22	8 35.36	+36 22.7	2.069	3.024	5.5	19.8
2 1	8 25.03	+17 59.4	1.836	2.816	2.5	20.6	2 1	8 25.34	+36 55.3	2.092	3.034	6.6	19.9
2 11	8 15.18	+18 33.4	1.871	2.820	6.8	20.9	2 11	8 16.06	+37 8.3	2.143	3.045	9.0	20.1
2 21	8 6.98	+19 1.3	1.934	2.824	10.6	21.2	2 21	8 8.53	+37 2.4	2.219	3.055	11.6	20.3
3 2	8 1.14	+19 21.6	2.021	2.826	13.9	21.4	3 2	8 3.44	+36 40.4	2.316	3.066	14.0	20.5
<b>149278</b>	2002 <i>TS</i> <sub>118</sub>		1 26.2 151°48	2°2/25.3	18		<b>451210</b>	2009 <i>VZ</i> <sub>78</sub>		1 26.2 123°86	1°9/25.4	17	
12 23	9 5.17	+23 18.5	1.719	2.539	15.0	20.5	12 23	9 7.42	+22 42.9	1.662	2.479	15.5	21.7
1 2	8 58.05	+23 43.3	1.649	2.548	11.1	20.3	1 2	8 59.62	+23 3.5	1.602	2.500	11.5	21.5
1 12	8 48.13	+24 10.8	1.603	2.557	6.8	20.1	1 12	8 49.00	+23 26.9	1.566	2.519	7.0	21.3
1 22	8 36.33	+24 35.3	1.585	2.565	2.7	19.8	1 22	8 36.58	+23 47.3	1.558	2.538	2.6	21.1
2 1	8 23.97	+24 51.3	1.597	2.572	4.0	19.9	2 1	8 23.77	+23 59.6	1.579	2.555	3.8	21.2
2 11	8 12.56	+24 55.7	1.637	2.578	8.3	20.2	2 11	8 12.08	+24 1.0	1.630	2.572	8.2	21.5
2 21	8 3.31	+24 48.2	1.704	2.584	12.3	20.5	2 21	8 2.72	+23 51.6	1.707	2.588	12.3	21.8
3 2	7 57.02	+24 30.4	1.793	2.588	15.8	20.7	3 2	7 56.41	+23 32.9	1.807	2.602	15.7	22.0
<b>391085</b>	2005 <i>UU</i> <sub>236</sub>		1 26.2 141°67	3°0/24.6	18		<b>457235</b>	2008 <i>LT</i> <sub>8</sub>		1 26.2 169°99	3°2/28.1	18	
12 23	9 2.08	+23 10.6	1.687	2.513	14.9	21.7	12 23	8 56.94	+8 16.8	2.485	3.262	12.2	21.4
1 2	8 55.88	+24 13.6	1.621	2.523	11.1	21.4	1 2	8 51.17	+7 58.7	2.399	3.265	9.5	21.2
1 12	8 46.89	+25 21.7	1.579	2.533	6.8	21.2	1 12	8 43.66	+7 51.3	2.338	3.269	6.6	21.0
1 22	8 35.98	+26 27.2	1.564	2.542	3.2	21.0	1 22	8 34.97	+7 53.9	2.305	3.271	3.9	20.8
2 1	8 24.43	+27 22.4	1.579	2.551	4.7	21.1	2 1	8 25.87	+8 5.1	2.302	3.273	3.5	20.8
2 11	8 13.73	+28 2.0	1.622	2.558	8.8	21.4	2 11	8 17.23	+8 22.5	2.330	3.275	5.9	21.0
2 21	8 5.13	+28 24.5	1.691	2.566	12.7	21.6	2 21	8 9.80	+8 43.5	2.387	3.276	8.9	21.2
3 2	7 59.44	+28 31.1	1.782	2.572	16.1	21.9	3 2	8 4.17	+9 5.3	2.468	3.277	11.6	21.3
<b>466218</b>	2012 <i>SF</i> <sub>62</sub>		1 26.2 147°68	5°5/22.0	17		<b>447691</b>	2007 <i>CH</i> <sub>28</sub>		1 26.2 298°10	0°3/26.1	18	
12 23	9 0.36	+38 21.3	2.855	3.659	10.1	21.4	12 23	8 59.45	+18 7.8	1.328	2.165	17.5	21.5
1 2	8 53.76	+39 9.8	2.792	3.668	8.0	21.3	1 2	8 54.62	+18 20.5	1.250	2.157	13.3	21.2
1 12	8 45.21	+39 51.1	2.755	3.675	6.3	21.2	1 12	8 46.50	+18 43.8	1.193	2.149	8.2	20.9
1 22	8 35.40	+40 19.9	2.747	3.683	5.5	21.2	1 22	8 35.97	+19 12.7	1.160	2.141	2.5	20.5
2 1	8 25.24	+40 32.5	2.768	3.690	6.2	21.2	2 1	8 24.46	+19 41.3	1.153	2.134	3.5	20.6
2 11	8 15.72	+40 27.5	2.818	3.697	8.0	21.4	2 11	8 13.77	+20 3.9	1.173	2.127	9.2	20.9
2 21	8 7.68	+40 6.1	2.894	3.703	10.0	21.5	2 21	8 5.43	+20 17.5	1.217	2.119	14.4	21.2
3 2	8 1.73	+39 31.1	2.993	3.709	11.8	21.6	3 2	8 0.48	+20 20.9	1.281	2.112	18.9	21.4
<b>325092</b>	2008 <i>DX</i> <sub>53</sub>		1 26.2 329°62	1°5/27.1	18		<b>220566</b>	2004 <i>HQ</i> <sub>26</sub>		1 26.2 226°08	1°1/26.8	18	
12 23	8 55.07	+12 48.0	1.681	2.499	15.3	21.0	12 23	8 59.20	+13 39.6	1.693	2.505	15.5	21.2
1 2	8 50.64	+13 10.6	1.600	2.495	11.7	20.7	1 2	8 53.85	+14 8.5	1.603	2.496	11.8	20.9
1 12	8 43.73	+13 47.5	1.542	2.492	7.4	20.5	1 12	8 45.79	+14 51.5	1.537	2.487	7.4	20.7
1 22	8 35.05	+14 35.4	1.510	2.489	2.9	20.2	1 22	8 35.72	+15 45.0	1.497	2.477	2.7	20.3
2 1	8 25.67	+15 29.4	1.506	2.486	2.9	20.2	2 1	8 24.79	+16 43.4	1.486	2.467	2.9	20.3
2 11	8 16.90	+16 23.4	1.530	2.484	7.4	20.4	2 11	8 14.38	+17 40.2	1.504	2.455	7.8	20.6
2 21	8 9.85	+17 12.7	1.580	2.481	11.8	20.7	2 21	8 5.75	+18 30.7	1.548	2.444	12.4	20.8
3 2	8 5.36	+17 53.8	1.652	2.479	15.5	20.9	3 2	7 59.86	+19 11.6	1.615	2.431	16.3	21.0
<b>417718</b>	2007 <i>CL</i> <sub>21</sub>		1 26.2 323°39	1°8/26.8	18		<b>426516</b>	2013 <i>RK</i> <sub>46</sub>		1 26.2 187°03	1°2/25.5	18	
12 23	9 0.54	+16 28.6	1.651	2.469	15.5	20.2	12 23	8 57.89	+21 2				

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>58368</b>	1995 QK <sub>1</sub>		1 26.2 191°75	1°9/27.5	18		<b>69965</b>	1998 VN <sub>40</sub>		1 26.2 82°15	0°9/25.6	18	
12 23	8 55.20	+11 14.6	2.090	2.891	13.4	20.1	12 23	8 55.98	+19 32.8	2.090	2.909	12.7	19.9
1 2	8 50.27	+11 32.5	2.006	2.890	10.3	19.9	1 2	8 50.80	+20 7.2	2.022	2.922	9.4	19.7
1 12	8 43.30	+12 2.9	1.945	2.889	6.7	19.7	1 12	8 43.56	+20 47.5	1.980	2.934	5.6	19.5
1 22	8 34.91	+12 43.4	1.912	2.888	3.0	19.4	1 22	8 34.97	+21 29.4	1.965	2.946	1.8	19.2
2 1	8 25.97	+13 30.3	1.908	2.887	2.7	19.4	2 1	8 25.98	+22 8.2	1.980	2.959	2.8	19.3
2 11	8 17.52	+14 19.1	1.934	2.885	6.3	19.6	2 11	8 17.62	+22 40.2	2.025	2.971	6.6	19.6
2 21	8 10.47	+15 5.7	1.987	2.884	10.0	19.8	2 21	8 10.79	+23 3.2	2.097	2.983	10.1	19.8
3 2	8 5.50	+15 47.1	2.065	2.882	13.2	20.0	3 2	8 6.11	+23 16.5	2.192	2.995	13.0	20.0
<b>101368</b>	1998 UW <sub>2</sub>		1 26.2 116°70	3°0/24.6	18		<b>13699</b>	Nickthomas		1 26.2 121°46	2°2/27.3	18	
12 23	9 1.23	+25 18.3	1.942	2.764	13.4	20.0	12 23	9 2.37	+12 23.2	1.684	2.488	15.9	17.8
1 2	8 54.85	+26 1.3	1.880	2.780	9.9	19.8	1 2	8 55.81	+12 23.4	1.619	2.505	12.1	17.6
1 12	8 46.07	+26 45.5	1.843	2.795	6.2	19.6	1 12	8 46.71	+12 36.1	1.577	2.522	7.8	17.4
1 22	8 35.71	+27 25.0	1.834	2.810	3.2	19.5	1 22	8 35.93	+12 58.6	1.561	2.538	3.4	17.1
2 1	8 24.94	+27 54.2	1.854	2.824	4.4	19.6	2 1	8 24.70	+13 27.1	1.575	2.553	3.2	17.1
2 11	8 14.99	+28 10.1	1.904	2.838	7.9	19.8	2 11	8 14.36	+13 57.2	1.617	2.568	7.4	17.4
2 21	8 6.92	+28 12.2	1.980	2.851	11.3	20.1	2 21	8 5.99	+14 25.3	1.687	2.582	11.5	17.7
3 2	8 1.40	+28 2.1	2.079	2.864	14.3	20.3	3 2	8 0.34	+14 48.7	1.779	2.595	15.0	18.0
<b>2119</b>	Schwall		1 26.2 202°93	1°5/26.9	18		<b>113704</b>	2002 TQ <sub>127</sub>		1 26.2 37°19	3°5/28.1	18	
12 23	9 0.73	+14 3.3	1.789	2.596	15.0	17.4	12 23	8 54.93	+ 8 53.6	2.033	2.827	13.9	19.2
1 2	8 54.76	+14 8.0	1.703	2.593	11.4	17.1	1 2	8 50.02	+ 8 33.2	1.956	2.832	10.9	19.0
1 12	8 46.21	+14 23.7	1.640	2.588	7.3	16.9	1 12	8 43.11	+ 8 25.2	1.901	2.837	7.5	18.8
1 22	8 35.83	+14 47.7	1.604	2.583	2.8	16.6	1 22	8 34.85	+ 8 29.0	1.874	2.842	4.3	18.6
2 1	8 24.72	+15 16.0	1.598	2.578	2.9	16.6	2 1	8 26.14	+ 8 42.9	1.875	2.848	3.8	18.6
2 11	8 14.22	+15 44.4	1.620	2.571	7.4	16.8	2 11	8 18.00	+ 9 3.9	1.905	2.853	6.7	18.8
2 21	8 5.49	+16 9.6	1.670	2.564	11.7	17.1	2 21	8 11.30	+ 9 28.5	1.961	2.859	10.0	19.0
3 2	7 59.38	+16 29.4	1.742	2.557	15.4	17.3	3 2	8 6.68	+ 9 53.4	2.042	2.865	13.1	19.2
<b>111290</b>	2001 XZ <sub>50</sub>		1 26.2 134°12	4°4/28.3	18		<b>481893</b>	2009 AA <sub>32</sub>		1 26.2 250°25	1°8/24.9	18	
12 23	8 58.79	+ 7 5.5	2.048	2.827	14.3	18.9	12 23	8 59.51	+12 28.1	1.210	2.040	19.3	20.6
1 2	8 52.83	+ 6 28.4	1.969	2.835	11.3	18.7	1 2	8 55.23	+14 59.2	1.128	2.033	14.6	20.3
1 12	8 44.78	+ 6 4.0	1.915	2.842	8.0	18.5	1 12	8 47.29	+18 4.7	1.069	2.026	8.8	20.0
1 22	8 35.34	+ 5 52.8	1.887	2.849	5.1	18.4	1 22	8 36.36	+21 32.0	1.037	2.019	2.7	19.6
2 1	8 25.44	+ 5 53.7	1.889	2.856	4.6	18.4	2 1	8 23.87	+25 0.9	1.034	2.011	5.1	19.7
2 11	8 16.14	+ 6 4.4	1.919	2.862	7.1	18.5	2 11	8 11.84	+28 10.2	1.060	2.003	11.5	20.0
2 21	8 8.36	+ 6 21.8	1.978	2.868	10.4	18.7	2 21	8 2.23	+30 46.2	1.111	1.995	17.1	20.3
3 2	8 2.76	+ 6 42.3	2.060	2.874	13.3	18.9	3 2	7 56.46	+32 44.4	1.182	1.986	21.8	20.6
<b>5922</b>	Shouichi		1 26.2 93°19	3°6/28.5	18		<b>155004</b>	2005 OY <sub>9</sub>		1 26.2 85°59	0°3/26.4	18	
12 23	8 54.69	+ 7 4.9	2.244	3.026	13.2	16.7	12 23	8 56.80	+13 59.9	1.829	2.642	14.5	20.5
1 2	8 49.63	+ 6 54.8	2.169	3.037	10.3	16.6	1 2	8 51.60	+15 0.6	1.766	2.661	10.8	20.3
1 12	8 42.77	+ 6 57.9	2.118	3.048	7.2	16.4	1 12	8 44.14	+16 14.1	1.728	2.679	6.6	20.1
1 22	8 34.72	+ 7 13.2	2.094	3.059	4.4	16.2	1 22	8 35.17	+17 35.0	1.717	2.698	2.1	19.9
2 1	8 26.29	+ 7 38.8	2.099	3.069	3.8	16.2	2 1	8 25.74	+18 56.3	1.736	2.717	2.6	19.9
2 11	8 18.39	+ 8 11.4	2.133	3.080	6.2	16.4	2 11	8 17.02	+20 11.4	1.785	2.735	6.9	20.3
2 21	8 11.81	+ 8 47.3	2.196	3.090	9.3	16.6	2 21	8 9.99	+21 15.9	1.861	2.753	10.8	20.5
3 2	8 7.11	+ 9 23.2	2.283	3.101	12.1	16.8	3 2	8 5.34	+22 7.4	1.960	2.770	14.1	20.8
<b>265881</b>	2006 AA <sub>8</sub>		1 26.2 321°97	4°2/28.7	18		<b>309292</b>	2007 RM <sub>222</sub>		1 26.2 163°69	1°1/25.6	18	
12 23	8 51.10	+ 5 54.4	1.606	2.411	16.5	19.4	12 23	9 0.87	+20 13.1	2.036	2.850	13.2	22.0
1 2	8 47.97	+ 6 12.2	1.505	2.387	13.2	19.1	1 2	8 54.54	+20 43.6	1.960	2.856	9.8	21.8
1 12	8 42.31	+ 6 52.7	1.426	2.363	9.3	18.9	1 12	8 45.91	+21 19.5	1.908	2.862	5.9	21.6
1 22	8 34.71	+ 7 55.4	1.371	2.341	5.4	18.6	1 22	8 35.71	+21 56.2	1.885	2.866	1.9	21.3
2 1	8 26.16	+ 9 16.6	1.343	2.319	4.5	18.5	2 1	8 24.99	+22 29.0	1.893	2.870	3.0	21.4
2 11	8 17.94	+10 48.9	1.342	2.297	8.1	18.6	2 11	8 14.92	+22 54.1	1.930	2.874	7.0	21.6
2 21	8 11.31	+12 24.1	1.367	2.277	12.6	18.8	2 21	8 6.52	+23 9.6	1.995	2.876	10.7	21.9
3 2	8 7.26	+13 54.3	1.413	2.257	16.7	19.0	3 2	8 0.52	+23 15.5	2.083	2.878	13.9	22.1
<b>176810</b>	2002 TD <sub>47</sub>		1 26.2 124°99	2°9/24.5	18		<b>270484</b>	2002 EQ <sub>68</sub>		1 26.2 279°26	4°0/24.1	18	
12 23	9 0.70	+25 4.0	2.004	2.826	13.1	20.8	12 23	8 59.61	+28 50.9	1.962	2.789	13.1	20.6
1 2	8 54.42	+25 51.3	1.940	2.840	9.7	20.6	1 2	8 53.93	+29 25.4	1.879	2.780	9.9	20.3
1 12	8 45.81	+26 40.2	1.901	2.854	6.0	20.4	1 12	8 45.70	+29 58.7	1.822	2.771	6.5	20.1
1 22	8 35.65	+27 24.8	1.891	2.867	3.1	20.3	1 22	8 35.68	+30 24.7	1.791	2.762	4.1	19.9
2 1	8 25.04	+27 59.5	1.910	2.879	4.3	20.4	2 1	8 25.01	+30 37.9	1.789	2.753	5.3	20.0
2 11	8 15.21	+28 21.0	1.959	2.892	7.7	20.6	2 11	8 15.00	+30 35.6	1.816	2.744	8.6	20.2
2 21	8 7.17	+28 28.5	2.034	2.903	11.1	20.8	2 21	8 6.81	+30 17.8	1.868	2.735	12.1	20.4
3 2	8 1.60	+28 23.4	2.132	2.914	14.0	21.1	3 2	8 1.23	+29 46.7	1.942	2.726	15.2	20.6
<b>12856</b>	1998 HH <sub>93</sub>		1 26.2 45°85	1°7/25.6	18		<b>321198</b>	2008 YD <sub>11</sub>		1 26.2 87°69	14°1/16.6	18	
12 23	9 0.80	+20 45.2	1.220	2.064	18.3	16.7	12 23	9 6.85	+38 0.1	1.065	1.915	20.0	19.7
1 2	8 55.66	+21 10.9	1.158	2.070	13.7	16.5	1 2	9 2.15	+41 59.8	1.029	1.924	16.6	19.6
1 12	8 47.09	+21 44.7	1.117	2.076	8.3	16.2	1 12	8 52.20	+45 49.5	1.015	1.934	14.4	19.5
1 22	8 36.12	+22 19.8	1.101	2.082	2.7	15.9	1 22	8 37.96	+49 2.5	1.026	1.944	14.5	19.5
2 1	8 24.42	+22 48.7	1.110	2.089	4.2	16.0	2 1	8 21.81	+51 18.4	1.060	1.953	16.6	19.7
2 11	8 13.87	+23 6.2	1.145	2.096	9.8	16.3	2 11	8 7.06	+52 31.0	1.115	1.963	19.7	19.9
2 21	8 6.00	+23 10.5	1.203	2.103	14.8	16.6	2 21	7 56.50	+52 48.1	1.186	1.972	22.6	20.1
3 2	8 1.70	+23 2.3	1.281	2.110	19.0	16.9	3 2	7 51.58	+52 23.2	1.271	1.981	25.2	20.4
<b>305578</b>	2008 YZ <sub>12</sub>		1 26.2 107°70	0°3/26.4	18		<b>283313</b>	2011 KE <sub>27</sub>		1 26.2 162°00	2°8/24.6	18	
12 23	8 59.87	+15 55.6	1.641	2.459	15.6	21.5	12 23	9 2.52	+23 20.4	1.858	2.678	14.0	21.5
1 2	8 54.11	+16 22.9	1.576	2.473									



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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>98144</b>	2000 <i>SR</i> <sub>61</sub>		1 26.2 258°77	0°9/26.7	18		<b>2227</b>	Otto Struve		1 26.2 37°24	3°9/28.0	18	
12 23	8 58.57	+14 32.2	1.740	2.554	15.1	19.8	12 23	8 56.14	+ 8 57.5	1.077	1.911	20.9	16.0
1 2	8 53.43	+14 53.8	1.642	2.536	11.5	19.5	1 2	8 52.21	+ 9 2.6	1.025	1.925	16.2	15.8
1 12	8 45.60	+15 28.1	1.566	2.517	7.3	19.2	1 12	8 44.98	+ 9 31.9	0.992	1.940	10.8	15.5
1 22	8 35.73	+16 11.9	1.518	2.498	2.5	18.9	1 22	8 35.53	+10 22.2	0.980	1.955	5.5	15.3
2 1	8 24.90	+17 0.2	1.498	2.478	2.9	18.8	2 1	8 25.45	+11 26.7	0.993	1.972	4.6	15.3
2 11	8 14.47	+17 47.3	1.506	2.458	7.8	19.1	2 11	8 16.55	+12 36.2	1.031	1.989	9.4	15.6
2 21	8 5.73	+18 28.7	1.541	2.437	12.4	19.3	2 21	8 10.24	+13 42.3	1.091	2.007	14.4	15.9
3 2	7 59.67	+19 1.6	1.599	2.416	16.4	19.5	3 2	8 7.35	+14 39.1	1.171	2.025	18.7	16.2
<b>120240</b>	2004 <i>FM</i> <sub>98</sub>		1 26.2 240°48	3°8/28.7	18		<b>432159</b>	2009 <i>BB</i> <sub>148</sub>		1 26.2 48°16	3°2/28.6	18	
12 23	8 55.04	+ 5 34.8	2.129	2.907	13.9	20.2	12 23	8 52.51	+ 6 57.6	2.112	2.901	13.6	21.3
1 2	8 50.23	+ 5 48.2	2.030	2.896	11.0	19.9	1 2	8 48.17	+ 7 13.2	2.039	2.912	10.6	21.1
1 12	8 43.36	+ 6 18.6	1.955	2.884	7.8	19.7	1 12	8 41.98	+ 7 44.1	1.989	2.923	7.3	21.0
1 22	8 34.99	+ 7 4.8	1.906	2.871	4.7	19.5	1 22	8 34.56	+ 8 28.4	1.966	2.934	4.2	20.8
2 1	8 25.96	+ 8 4.0	1.886	2.858	4.0	19.4	2 1	8 26.73	+ 9 22.8	1.972	2.946	3.5	20.8
2 11	8 17.28	+ 9 11.4	1.896	2.845	6.7	19.6	2 11	8 19.43	+10 22.5	2.007	2.957	6.2	20.9
2 21	8 9.88	+10 21.6	1.934	2.831	10.2	19.7	2 21	8 13.46	+11 22.8	2.069	2.969	9.5	21.2
3 2	8 4.52	+11 29.5	1.997	2.817	13.5	19.9	3 2	8 9.42	+12 19.4	2.156	2.981	12.4	21.4
<b>68723</b>	2002 <i>DH</i> <sub>10</sub>		1 26.2 189°14	3°3/28.5	18		<b>233062</b>	2005 <i>GO</i> <sub>149</sub>		1 26.2 223°75	3°1/28.6	17	
12 23	8 54.46	+ 6 43.2	2.245	3.026	13.2	20.2	12 23	8 52.93	+ 6 27.6	2.719	3.491	11.4	21.2
1 2	8 49.60	+ 6 56.8	2.157	3.026	10.4	20.0	1 2	8 48.21	+ 6 32.6	2.621	3.483	9.0	21.0
1 12	8 42.86	+ 7 25.4	2.093	3.025	7.2	19.8	1 12	8 41.93	+ 6 49.7	2.548	3.475	6.3	20.8
1 22	8 34.81	+ 8 7.3	2.056	3.024	4.2	19.6	1 22	8 34.55	+ 7 18.0	2.502	3.467	3.8	20.6
2 1	8 26.25	+ 8 59.7	2.049	3.022	3.5	19.6	2 1	8 26.72	+ 7 55.6	2.487	3.458	3.3	20.6
2 11	8 18.12	+ 9 58.1	2.072	3.020	6.2	19.8	2 11	8 19.21	+ 8 39.4	2.503	3.449	5.5	20.7
2 21	8 11.25	+10 58.0	2.122	3.018	9.5	20.0	2 21	8 12.68	+ 9 25.9	2.547	3.439	8.2	20.9
3 2	8 6.28	+11 55.2	2.198	3.016	12.5	20.1	3 2	8 7.71	+10 12.0	2.617	3.430	10.9	21.0
<b>432176</b>	2009 <i>CJ</i> <sub>34</sub>		1 26.2 325°96	2°8/24.9	18		<b>115898</b>	2003 <i>VO</i> <sub>9</sub>		1 26.2 31°56	5°1/29.1	18	
12 23	8 57.42	+26 9.7	1.966	2.795	13.0	21.0	12 23	8 54.33	+ 4 37.2	1.972	2.753	14.8	19.2
1 2	8 52.24	+26 24.0	1.880	2.784	9.7	20.7	1 2	8 49.66	+ 4 9.1	1.895	2.757	11.8	19.0
1 12	8 44.64	+26 38.2	1.818	2.772	6.1	20.5	1 12	8 42.96	+ 3 56.9	1.840	2.762	8.7	18.8
1 22	8 35.38	+26 47.8	1.784	2.761	3.0	20.3	1 22	8 34.88	+ 4 1.0	1.810	2.767	5.9	18.7
2 1	8 25.49	+26 48.6	1.778	2.750	4.1	20.3	2 1	8 26.32	+ 4 20.1	1.809	2.773	5.2	18.6
2 11	8 16.23	+26 38.0	1.801	2.740	7.8	20.5	2 11	8 18.31	+ 4 50.9	1.835	2.778	7.4	18.8
2 21	8 8.67	+26 16.0	1.849	2.730	11.5	20.7	2 21	8 11.75	+ 5 29.0	1.888	2.784	10.5	19.0
3 2	8 3.59	+25 44.0	1.921	2.721	14.7	20.9	3 2	8 7.29	+ 6 9.9	1.964	2.790	13.5	19.2
<b>15590</b>	2000 <i>GH</i> <sub>82</sub>		1 26.2 193°65	5°4/29.8	18		<b>366704</b>	2003 <i>WH</i> <sub>88</sub>		1 26.2 157°01	6°4/27.4	18	
12 23	8 55.42	+ 0 58.2	2.264	3.016	13.9	18.0	12 23	9 10.46	+10 26.8	1.191	1.999	20.9	20.5
1 2	8 50.30	+ 0 50.0	2.173	3.015	11.4	17.8	1 2	9 2.91	+ 8 49.0	1.119	2.003	16.6	20.2
1 12	8 43.28	+ 0 59.4	2.105	3.012	8.6	17.6	1 12	8 51.59	+ 7 22.4	1.069	2.006	11.6	20.0
1 22	8 34.94	+ 1 26.7	2.063	3.010	6.2	17.4	1 22	8 37.58	+ 6 10.7	1.042	2.009	7.2	19.7
2 1	8 26.08	+ 2 10.2	2.050	3.006	5.4	17.4	2 1	8 22.69	+ 5 17.0	1.043	2.012	7.0	19.7
2 11	8 17.61	+ 3 6.4	2.066	3.002	7.1	17.5	2 11	8 9.00	+ 4 41.5	1.070	2.014	11.2	20.0
2 21	8 10.39	+ 4 10.1	2.110	2.998	9.9	17.6	2 21	7 58.23	+ 4 21.9	1.120	2.016	16.0	20.2
3 2	8 5.08	+ 5 16.3	2.178	2.993	12.7	17.8	3 2	7 51.37	+ 4 13.8	1.191	2.017	20.3	20.5
<b>489518</b>	2007 <i>QS</i> <sub>6</sub>		1 26.2 165°97	0°1/26.2	18		<b>14049</b>	1995 <i>XH</i> <sub>1</sub>		1 26.2 99°55	1°5/26.9	18	
12 23	8 59.95	+16 59.1	1.994	2.804	13.6	22.6	12 23	9 2.39	+14 25.2	1.502	2.318	16.9	18.3
1 2	8 53.91	+17 31.0	1.916	2.810	10.2	22.4	1 2	8 56.10	+14 26.3	1.441	2.335	12.8	18.1
1 12	8 45.56	+18 11.5	1.863	2.815	6.2	22.2	1 12	8 47.02	+14 39.4	1.402	2.353	8.0	17.9
1 22	8 35.64	+18 56.3	1.837	2.819	1.9	21.9	1 22	8 36.11	+15 0.8	1.390	2.369	3.0	17.6
2 1	8 25.16	+19 40.6	1.842	2.822	2.6	22.0	2 1	8 24.73	+15 26.2	1.406	2.386	3.1	17.6
2 11	8 15.29	+20 19.7	1.877	2.825	6.9	22.2	2 11	8 14.37	+15 51.0	1.449	2.402	7.9	18.0
2 21	8 7.06	+20 50.9	1.940	2.827	10.7	22.5	2 21	8 6.22	+16 12.0	1.518	2.417	12.3	18.3
3 2	8 1.20	+21 12.9	2.026	2.828	14.0	22.7	3 2	8 1.03	+16 27.0	1.610	2.432	16.1	18.5
<b>108884</b>	2001 <i>ON</i> <sub>106</sub>		1 26.2 120°64	1°9/25.4	18		<b>88319</b>	2001 <i>OX</i> <sub>41</sub>		1 26.2 195°34	4°3/24.0	18	
12 23	9 2.93	+24 17.0	2.008	2.825	13.2	20.2	12 23	9 3.53	+27 29.0	1.751	2.576	14.5	20.2
1 2	8 55.98	+24 24.9	1.940	2.837	9.8	20.0	1 2	8 57.15	+28 23.9	1.674	2.575	10.9	20.0
1 12	8 46.71	+24 33.4	1.897	2.850	6.0	19.8	1 12	8 47.83	+29 19.7	1.622	2.572	7.1	19.7
1 22	8 35.95	+24 38.2	1.882	2.862	2.4	19.6	1 22	8 36.43	+30 8.7	1.597	2.569	4.4	19.6
2 1	8 24.83	+24 35.7	1.898	2.873	3.4	19.7	2 1	8 24.24	+30 43.5	1.601	2.565	5.7	19.6
2 11	8 14.55	+24 24.2	1.943	2.884	7.2	20.0	2 11	8 12.84	+30 59.9	1.633	2.561	9.4	19.8
2 21	8 6.13	+24 3.9	2.016	2.895	10.8	20.2	2 21	8 3.55	+30 57.6	1.691	2.556	13.2	20.0
3 2	8 0.21	+23 36.1	2.112	2.905	13.8	20.4	3 2	7 57.27	+30 39.3	1.770	2.550	16.5	20.3
<b>446409</b>	2014 <i>JY</i> <sub>1</sub>		1 26.2 122°89	3°0/27.9	18		<b>171945</b>	2001 <i>SP</i> <sub>270</sub>		1 26.3 42°46	3°6/28.8	18	
12 23	8 59.85	+ 8 59.6	1.755	2.549	15.8	21.9	12 23	8 52.47	+ 6 14.4	2.180	2.965	13.4	20.0
1 2	8 53.90	+ 9 11.1	1.687	2.565	12.2	21.7	1 2	8 48.13	+ 6 21.4	2.101	2.970	10.6	19.8
1 12	8 45.57	+ 9 38.7	1.641	2.581	8.1	21.5	1 12	8 41.98	+ 6 43.5	2.046	2.976	7.4	19.7
1 22	8 35.65	+10 19.7	1.623	2.596	4.1	21.3	1 22	8 34.59	+ 7 19.4	2.017	2.982	4.4	19.5
2 1	8 25.24	+11 9.9	1.633	2.610	3.6	21.3	2 1	8 26.78	+ 8 6.3	2.017	2.989	3.8	19.5
2 11	8 15.59	+12 3.9	1.673	2.624	7.2	21.5	2 11	8 19.44	+ 9 0.0	2.046	2.995	6.3	19.6
2 21	8 7.74	+12 56.5	1.739	2.636	11.1	21.8	2 21	8 13.38	+ 9 55.9	2.103	3.002	9.4	19.8
3 2	8 2.41	+13 43.9	1.829	2.649	14.5	22.0	3 2	8 9.20	+10 49.9	2.184	3.008	12.3	20.0
<b>198202</b>	2004 <i>TE</i> <sub>142</sub>		1 26.2 87°88	1°1/26.9	18		<b>420503</b>	2012 <i>FD</i> <sub>35</sub>		1 26.3 259°17	1°5/25.4	17	
12 23	8 56.68	+14 29.8	1.983	2.793	13.6	20.5	12 23						

EPHEMERIDES

1 26.3

1 26.3

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>48596</b>	1994 VY <sub>6</sub>		1 26.3	84°20	1°1/26.9	18	<b>449603</b>	2014 JC <sub>59</sub>		1 26.3	320°12	6°3/23.1	18
12 23	9 1.12	+14 27.0	1.779	2.587	15.0	19.7	12 23	9 1.21	+29 11.4	1.332	2.178	17.0	20.9
1 2	8 54.67	+14 38.4	1.725	2.616	11.3	19.6	1 2	8 56.26	+30 32.5	1.266	2.175	13.0	20.7
1 12	8 45.92	+15 0.0	1.696	2.645	7.0	19.4	1 12	8 47.70	+31 54.8	1.222	2.172	8.9	20.4
1 22	8 35.75	+15 28.3	1.693	2.673	2.5	19.2	1 22	8 36.51	+33 6.8	1.202	2.170	6.4	20.3
2 1	8 25.31	+15 58.9	1.721	2.701	2.6	19.2	2 1	8 24.32	+33 57.7	1.209	2.167	8.1	20.4
2 11	8 15.80	+16 27.9	1.777	2.728	6.9	19.5	2 11	8 13.14	+34 21.5	1.240	2.165	12.0	20.6
2 21	8 8.18	+16 52.4	1.861	2.755	10.7	19.8	2 21	8 4.63	+34 18.5	1.294	2.163	16.2	20.8
3 2	8 3.07	+17 10.7	1.968	2.781	13.9	20.1	3 2	7 59.86	+33 53.1	1.367	2.161	19.9	21.0
<b>340580</b>	2006 PS <sub>3</sub>		1 26.3	138°29	2°4/27.6	18	<b>229236</b>	2004 XM <sub>76</sub>		1 26.3	150°16	4°1/22.9	18
12 23	8 58.48	+11 33.6	2.744	3.523	11.1	20.6	12 23	8 57.94	+29 8.1	2.413	3.233	11.2	20.7
1 2	8 52.14	+10 59.5	2.660	3.531	8.5	20.5	1 2	8 52.31	+30 24.5	2.344	3.240	8.4	20.5
1 12	8 44.20	+10 32.0	2.603	3.539	5.7	20.3	1 12	8 44.60	+31 40.6	2.302	3.247	5.7	20.3
1 22	8 35.23	+10 11.0	2.576	3.547	3.0	20.1	1 22	8 35.45	+32 50.0	2.289	3.253	4.1	20.2
2 1	8 25.95	+9 55.6	2.580	3.554	2.8	20.1	2 1	8 25.77	+33 46.8	2.306	3.259	5.3	20.3
2 11	8 17.15	+9 44.6	2.616	3.561	5.3	20.3	2 11	8 16.61	+34 27.3	2.353	3.264	7.8	20.5
2 21	8 9.52	+9 36.8	2.681	3.567	8.1	20.5	2 21	8 8.89	+34 50.8	2.427	3.270	10.5	20.7
3 2	8 3.59	+9 30.6	2.772	3.573	10.6	20.7	3 2	8 3.31	+34 58.3	2.523	3.274	12.9	20.8
<b>258483</b>	2002 AS <sub>35</sub>		1 26.3	339°61	0°7/26.5	18	<b>157766</b>	2007 DF <sub>97</sub>		1 26.3	12°97	7°7/31.5	18
12 23	8 56.50	+16 44.7	1.642	2.469	15.2	20.4	12 23	8 53.07	- 3 51.7	1.856	2.603	16.8	20.1
1 2	8 51.82	+16 44.3	1.562	2.463	11.5	20.1	1 2	8 48.94	- 4 3.4	1.774	2.603	14.1	19.9
1 12	8 44.54	+16 52.8	1.504	2.458	7.1	19.9	1 12	8 42.67	- 3 50.1	1.712	2.604	11.3	19.7
1 22	8 35.43	+17 7.2	1.472	2.453	2.4	19.6	1 22	8 34.89	- 3 10.4	1.674	2.605	8.7	19.6
2 1	8 25.64	+17 23.7	1.468	2.449	2.8	19.6	2 1	8 26.52	- 2 5.8	1.661	2.606	7.7	19.5
2 11	8 16.52	+17 38.4	1.491	2.445	7.6	19.9	2 11	8 18.65	- 0 41.5	1.676	2.608	8.9	19.6
2 21	8 9.25	+17 48.6	1.540	2.441	12.0	20.1	2 21	8 12.25	+ 0 55.0	1.717	2.609	11.5	19.8
3 2	8 4.65	+17 52.9	1.611	2.439	15.8	20.3	3 2	8 8.06	+ 2 35.5	1.782	2.611	14.4	20.0
<b>432223</b>	2009 FG <sub>78</sub>		1 26.3	329°00	8°4/19.9	16	<b>34585</b>	2000 SJ <sub>352</sub>		1 26.3	105°12	4°6/23.8	18
12 23	8 56.91	+38 27.5	1.876	2.705	13.5	20.4	12 23	9 2.87	+27 38.0	1.620	2.452	15.2	18.5
1 2	8 52.55	+40 6.9	1.803	2.690	11.0	20.2	1 2	8 56.63	+28 44.7	1.564	2.467	11.4	18.3
1 12	8 45.23	+41 40.2	1.754	2.676	9.0	20.1	1 12	8 47.46	+29 51.4	1.531	2.482	7.4	18.1
1 22	8 35.70	+42 57.3	1.730	2.662	8.5	20.0	1 22	8 36.34	+30 49.6	1.526	2.496	4.7	18.0
2 1	8 25.22	+43 49.8	1.734	2.648	9.8	20.0	2 1	8 24.66	+31 31.5	1.548	2.511	6.1	18.1
2 11	8 15.38	+44 13.1	1.762	2.636	12.2	20.2	2 11	8 14.01	+31 53.1	1.598	2.524	9.7	18.4
2 21	8 7.58	+44 8.1	1.812	2.624	14.9	20.3	2 21	8 5.64	+31 54.9	1.673	2.538	13.3	18.6
3 2	8 2.82	+43 38.7	1.881	2.612	17.4	20.5	3 2	8 0.36	+31 39.7	1.768	2.551	16.5	18.9
<b>190550</b>	2000 SD <sub>44</sub>		1 26.3	275°32	14°7/22.7	18	<b>340718</b>	2006 SQ <sub>68</sub>		1 26.3	149°65	4°9/30.3	18
12 23	9 22.07	+46 56.3	1.106	1.924	21.6	19.2	12 23	8 52.03	+ 0 5.6	2.624	3.369	12.4	21.2
1 2	9 13.64	+48 5.9	1.047	1.917	18.6	19.0	1 2	8 47.57	+ 0 7.1	2.537	3.373	10.2	21.0
1 12	8 59.01	+48 51.5	1.006	1.911	15.9	18.8	1 12	8 41.56	+ 0 24.8	2.473	3.376	7.7	20.9
1 22	8 39.94	+48 53.5	0.985	1.904	14.7	18.7	1 22	8 34.50	+ 0 58.5	2.436	3.379	5.6	20.7
2 1	8 19.81	+47 58.7	0.986	1.898	15.7	18.7	2 1	8 27.06	+ 1 46.5	2.428	3.382	4.9	20.7
2 11	8 2.46	+46 9.3	1.009	1.891	18.4	18.9	2 11	8 19.99	+ 2 45.4	2.449	3.384	6.2	20.8
2 21	7 50.37	+43 39.9	1.052	1.885	21.8	19.0	2 21	8 13.94	+ 3 50.7	2.498	3.387	8.6	20.9
3 2	7 44.39	+40 48.6	1.112	1.879	25.1	19.3	3 2	8 9.47	+ 4 57.9	2.574	3.389	10.9	21.1
<b>463206</b>	2012 CJ <sub>42</sub>		1 26.3	287°44	1°5/25.4	16	<b>176856</b>	2002 TY <sub>261</sub>		1 26.3	96°87	0°3/26.4	18
12 23	8 57.34	+20 29.7	1.706	2.536	14.6	21.5	12 23	8 58.88	+15 46.2	1.815	2.629	14.5	21.1
1 2	8 52.52	+21 5.8	1.621	2.526	10.9	21.2	1 2	8 53.17	+16 17.2	1.752	2.647	10.8	20.9
1 12	8 45.03	+21 49.6	1.560	2.517	6.7	21.0	1 12	8 45.14	+16 58.1	1.714	2.666	6.6	20.7
1 22	8 35.61	+22 35.5	1.526	2.507	2.3	20.7	1 22	8 35.60	+17 44.5	1.703	2.684	2.1	20.4
2 1	8 25.39	+23 17.5	1.520	2.498	3.6	20.7	2 1	8 25.64	+18 31.2	1.721	2.701	2.6	20.5
2 11	8 15.77	+23 50.4	1.542	2.488	8.2	21.0	2 11	8 16.46	+19 13.4	1.768	2.718	6.9	20.8
2 21	8 7.98	+24 11.3	1.589	2.479	12.5	21.2	2 21	8 9.05	+19 47.9	1.842	2.735	10.9	21.1
3 2	8 2.90	+24 19.9	1.658	2.470	16.2	21.4	3 2	8 4.11	+20 13.2	1.940	2.752	14.1	21.3
<b>30245</b>	Paigesmith		1 26.3	325°17	4°5/28.4	18	<b>114333</b>	2002 XP <sub>65</sub>		1 26.3	77°41	6°8/21.8	18
12 23	8 55.13	+ 7 43.1	1.578	2.384	16.7	18.8	12 23	9 0.84	+38 31.8	2.223	3.037	12.2	19.8
1 2	8 50.89	+ 7 21.9	1.494	2.375	13.3	18.5	1 2	8 54.68	+39 36.9	2.170	3.050	9.8	19.6
1 12	8 44.05	+ 7 17.8	1.430	2.367	9.3	18.3	1 12	8 46.08	+40 33.3	2.142	3.063	7.7	19.5
1 22	8 35.33	+ 7 30.7	1.391	2.359	5.6	18.0	1 22	8 35.89	+41 13.9	2.141	3.076	6.8	19.5
2 1	8 25.84	+ 7 58.6	1.379	2.352	4.9	18.0	2 1	8 25.28	+41 33.7	2.168	3.089	7.7	19.6
2 11	8 16.91	+ 8 37.1	1.393	2.345	8.3	18.1	2 11	8 15.52	+41 31.0	2.222	3.102	9.8	19.7
2 21	8 9.76	+ 9 20.8	1.433	2.338	12.5	18.4	2 21	8 7.66	+41 7.7	2.301	3.115	12.0	19.9
3 2	8 5.26	+10 4.6	1.494	2.332	16.3	18.6	3 2	8 2.38	+40 27.6	2.400	3.128	14.1	20.1
<b>17876</b>	1999 AX <sub>21</sub>		1 26.3	248°00	1°5/26.9	18	<b>297494</b>	2000 VK <sub>22</sub>		1 26.3	31°14	7°5/29.4	18
12 23	8 59.84	+14 48.2	1.584	2.403	16.1	18.3	12 23	8 56.06	+ 4 7.2	1.139	1.954	21.3	19.8
1 2	8 54.45	+14 44.6	1.500	2.396	12.3	18.0	1 2	8 51.96	+ 3 15.3	1.087	1.969	17.1	19.6
1 12	8 46.24	+14 52.0	1.439	2.390	7.8	17.7	1 12	8 44.78	+ 2 49.2	1.055	1.985	12.6	19.4
1 22	8 36.01	+15 7.7	1.403	2.383	3.0	17.4	1 22	8 35.55	+ 2 50.6	1.043	2.003	8.7	19.2
2 1	8 24.96	+15 27.9	1.396	2.376	3.1	17.4	2 1	8 25.78	+ 3 17.5	1.055	2.021	7.6	19.2
2 11	8 14.59	+15 48.5	1.416	2.369	8.0	17.7	2 11	8 17.14	+ 4 3.5	1.091	2.041	10.4	19.4
2 21	8 6.17	+16 6.0	1.461	2.362	12.6	17.9	2 21	8 10.91	+ 5 0.2	1.150	2.061	14.3	19.7
3 2	8 0.64	+16 18.4	1.529	2.354	16.6	18.2	3 2	8 7.90	+ 5 59.1	1.228	2.082	18.1	20.0
<b>359157</b>	2009 BK <sub>130</sub>		1 26.3	282°40	2°2/25.2	18	<b>139825</b>	2001 RQ <sub>31</sub>		1 26.3	163°65	3°7/28.9	18
12 23	8 58.65	+21 52.4	1.597	2.431	15.2	21.6							

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>257459</b>	1981 <i>EA</i> <sub>37</sub>		1 26.3 332°61	3°6/24.9	18		<b>74577</b>	1999 <i>NN</i> <sub>26</sub>		1 26.3 162°22	0°3/26.4	18	
12 23	9 0.43	+26 15.3	1.466	2.306	16.0	19.9	12 23	9 3.28	+16 43.7	1.677	2.490	15.6	19.4
1 2	8 55.23	+26 38.2	1.391	2.299	12.1	19.7	1 2	8 56.79	+16 58.6	1.602	2.496	11.7	19.1
1 12	8 46.86	+27 1.9	1.338	2.293	7.7	19.4	1 12	8 47.57	+17 22.8	1.550	2.502	7.2	18.9
1 22	8 36.24	+27 19.6	1.310	2.287	3.9	19.1	1 22	8 36.45	+17 52.2	1.526	2.507	2.3	18.6
2 1	8 24.81	+27 25.0	1.309	2.281	5.2	19.2	2 1	8 24.69	+18 21.9	1.531	2.511	2.9	18.6
2 11	8 14.30	+27 14.9	1.335	2.276	9.7	19.4	2 11	8 13.73	+18 47.4	1.564	2.514	7.7	18.9
2 21	8 6.13	+26 49.5	1.384	2.272	14.1	19.7	2 21	8 4.78	+19 6.1	1.625	2.517	12.1	19.2
3 2	8 1.24	+26 11.6	1.455	2.268	17.9	19.9	3 2	7 58.68	+19 16.8	1.708	2.519	15.8	19.4
<b>83896</b>	2001 <i>UK</i> <sub>146</sub>		1 26.3 202°92	1°6/27.4	17		<b>43607</b>	2001 <i>XO</i> <sub>48</sub>		1 26.3 207°15	3°5/28.1	18	R
12 23	8 53.76	+12 3.8	2.674	3.466	11.0	20.5	12 23	8 58.46	+ 8 31.8	2.227	3.008	13.3	18.4
1 2	8 48.87	+12 10.8	2.583	3.464	8.4	20.3	1 2	8 52.66	+ 8 7.5	2.135	3.003	10.5	18.2
1 12	8 42.37	+12 26.5	2.518	3.461	5.4	20.1	1 12	8 44.84	+ 7 54.4	2.066	2.998	7.3	18.0
1 22	8 34.78	+12 49.2	2.482	3.458	2.5	19.9	1 22	8 35.60	+ 7 52.2	2.026	2.992	4.3	17.8
2 1	8 26.78	+13 16.6	2.476	3.454	2.3	19.9	2 1	8 25.81	+ 7 59.7	2.015	2.986	3.9	17.8
2 11	8 19.15	+13 45.9	2.501	3.451	5.2	20.1	2 11	8 16.47	+ 8 14.5	2.034	2.979	6.6	17.9
2 21	8 12.58	+14 14.4	2.554	3.447	8.2	20.3	2 21	8 8.47	+ 8 33.6	2.081	2.972	9.9	18.1
3 2	8 7.63	+14 40.1	2.633	3.443	10.9	20.5	3 2	8 2.50	+ 8 54.1	2.153	2.965	12.9	18.3
<b>390963</b>	2005 <i>QJ</i> <sub>5</sub>		1 26.3 171°19	0°6/25.9	18		<b>400779</b>	2010 <i>EQ</i> <sub>70</sub>		1 26.3 221°12	1°6/25.5	18	
12 23	9 2.55	+18 34.7	1.717	2.534	15.1	22.0	12 23	9 1.55	+21 17.6	1.816	2.637	14.3	22.1
1 2	8 56.25	+19 1.8	1.641	2.538	11.3	21.8	1 2	8 55.57	+21 46.1	1.729	2.629	10.7	21.9
1 12	8 47.23	+19 37.1	1.588	2.541	6.9	21.5	1 12	8 46.89	+22 20.2	1.666	2.620	6.5	21.6
1 22	8 36.32	+20 15.5	1.562	2.544	2.1	21.2	1 22	8 36.28	+22 54.8	1.631	2.611	2.3	21.3
2 1	8 24.73	+20 51.5	1.566	2.545	3.1	21.3	2 1	8 24.88	+23 24.4	1.625	2.602	3.5	21.4
2 11	8 13.90	+21 20.4	1.599	2.546	7.8	21.6	2 11	8 14.09	+23 44.6	1.647	2.592	8.0	21.6
2 21	8 5.03	+21 39.7	1.658	2.547	12.1	21.9	2 21	8 5.13	+23 53.7	1.697	2.581	12.1	21.8
3 2	7 58.97	+21 48.9	1.740	2.546	15.7	22.1	3 2	7 58.89	+23 51.7	1.769	2.570	15.7	22.0
<b>463540</b>	2013 <i>RM</i> <sub>39</sub>		1 26.3 261°98	3°4/24.4	17		<b>409779</b>	2006 <i>EC</i> <sub>41</sub>		1 26.3 247°52	0°2/26.2	17	
12 23	9 0.09	+26 53.9	2.077	2.899	12.6	21.7	12 23	8 59.91	+17 53.8	1.730	2.550	14.9	22.5
1 2	8 54.34	+27 31.2	1.982	2.881	9.6	21.5	1 2	8 54.46	+18 11.8	1.640	2.538	11.2	22.2
1 12	8 46.09	+28 9.5	1.911	2.862	6.2	21.3	1 12	8 46.28	+18 38.7	1.572	2.526	6.9	21.9
1 22	8 36.01	+28 43.0	1.869	2.843	3.5	21.1	1 22	8 36.12	+19 10.3	1.532	2.513	2.1	21.6
2 1	8 25.14	+29 6.4	1.856	2.823	4.7	21.1	2 1	8 25.09	+19 41.6	1.520	2.500	2.9	21.6
2 11	8 14.75	+29 15.9	1.872	2.803	8.2	21.3	2 11	8 14.62	+20 8.0	1.537	2.487	7.8	21.9
2 21	8 5.99	+29 10.7	1.915	2.783	11.8	21.4	2 21	8 5.95	+20 26.5	1.580	2.473	12.3	22.1
3 2	7 59.73	+28 52.2	1.980	2.763	14.9	21.6	3 2	8 0.02	+20 36.0	1.645	2.459	16.2	22.3
<b>250487</b>	2004 <i>EP</i> <sub>37</sub>		1 26.3 340°67	9°8/30.9	18		<b>51974</b>	2001 <i>RW</i> <sub>31</sub>		1 26.3 63°07	3°6/28.8	18	
12 23	8 53.32	- 2 39.0	1.467	2.239	19.4	19.2	12 23	8 53.22	+ 6 2.1	2.155	2.938	13.6	18.6
1 2	8 49.71	- 3 39.7	1.387	2.231	16.5	18.9	1 2	8 48.73	+ 6 11.0	2.080	2.948	10.7	18.4
1 12	8 43.45	- 4 14.9	1.325	2.223	13.4	18.7	1 12	8 42.40	+ 6 35.3	2.028	2.958	7.5	18.2
1 22	8 35.23	- 4 20.2	1.284	2.216	10.7	18.5	1 22	8 34.84	+ 7 13.7	2.003	2.968	4.5	18.1
2 1	8 26.18	- 3 54.3	1.267	2.210	9.8	18.5	2 1	8 26.87	+ 8 3.1	2.006	2.978	3.8	18.0
2 11	8 17.69	- 3 0.8	1.275	2.205	11.3	18.5	2 11	8 19.41	+ 8 59.1	2.039	2.988	6.3	18.2
2 21	8 11.01	- 1 47.3	1.305	2.200	14.2	18.7	2 21	8 13.25	+ 9 57.1	2.099	2.998	9.4	18.4
3 2	8 7.07	- 0 23.0	1.357	2.197	17.5	18.9	3 2	8 9.01	+10 52.7	2.185	3.009	12.3	18.6
<b>87516</b>	2000 <i>QU</i> <sub>190</sub>		1 26.3 242°20	1°7/27.6	18		<b>130780</b>	2000 <i>TH</i> <sub>3</sub>		1 26.3 332°57	3°3/27.9	18	
12 23	8 56.04	+ 9 51.7	2.379	3.165	12.4	20.2	12 23	8 55.48	+ 9 10.6	1.415	2.232	17.7	19.7
1 2	8 50.93	+10 35.0	2.271	3.147	9.6	20.0	1 2	8 51.45	+ 9 23.6	1.337	2.228	13.8	19.5
1 12	8 43.85	+11 32.6	2.188	3.129	6.3	19.8	1 12	8 44.57	+ 9 56.9	1.279	2.224	9.3	19.2
1 22	8 35.31	+12 42.1	2.134	3.110	2.8	19.5	1 22	8 35.61	+10 48.2	1.245	2.220	4.7	18.9
2 1	8 26.07	+13 59.1	2.111	3.090	2.5	19.4	2 1	8 25.79	+11 52.6	1.238	2.216	4.0	18.9
2 11	8 17.07	+15 18.3	2.120	3.070	6.0	19.6	2 11	8 16.64	+13 2.6	1.257	2.213	8.4	19.1
2 21	8 9.20	+16 34.4	2.158	3.049	9.6	19.8	2 21	8 9.48	+14 10.8	1.301	2.210	13.2	19.4
3 2	8 3.20	+17 43.7	2.221	3.027	12.8	20.0	3 2	8 5.25	+15 11.5	1.366	2.207	17.3	19.6
<b>397843</b>	2008 <i>SM</i> <sub>282</sub>		1 26.3 119°19	6°7/29.4	18		<b>12470</b>	<i>Pinotti</i>		1 26.3 144°62	0°6/26.6	18	
12 23	9 0.69	+ 2 41.4	1.625	2.399	17.7	21.2	12 23	9 1.50	+14 35.5	1.846	2.652	14.7	18.3
1 2	8 54.75	+ 1 56.4	1.555	2.411	14.4	21.0	1 2	8 55.20	+15 8.9	1.775	2.665	11.0	18.1
1 12	8 46.26	+ 1 31.5	1.507	2.423	10.8	20.8	1 12	8 46.47	+15 53.5	1.727	2.677	6.8	17.8
1 22	8 36.03	+ 1 28.1	1.483	2.434	7.7	20.6	1 22	8 36.11	+16 45.1	1.708	2.688	2.3	17.6
2 1	8 25.23	+ 1 45.3	1.486	2.445	6.9	20.6	2 1	8 25.20	+17 38.2	1.718	2.698	2.6	17.6
2 11	8 15.22	+ 2 19.3	1.517	2.455	9.1	20.8	2 11	8 15.01	+18 27.6	1.758	2.708	7.0	17.9
2 21	8 7.12	+ 3 4.2	1.573	2.465	12.4	21.0	2 21	8 6.60	+19 9.6	1.826	2.716	11.1	18.2
3 2	8 1.69	+ 3 53.9	1.652	2.475	15.7	21.2	3 2	8 0.73	+19 42.2	1.917	2.724	14.5	18.4
<b>331152</b>	2010 <i>XC</i> <sub>18</sub>		1 26.3 14°97	0°2/26.4	18		<b>14423</b>	1991 <i>SM</i> <sub>2</sub>		1 26.3 42°56	5°5/24.1	18	
12 23	8 54.22	+15 27.9	1.513	2.345	16.0	20.4	12 23	9 2.72	+28 44.1	1.307	2.152	17.3	17.8
1 2	8 50.29	+16 7.3	1.444	2.348	12.0	20.2	1 2	8 57.22	+29 35.6	1.248	2.157	13.1	17.5
1 12	8 43.71	+17 0.4	1.397	2.352	7.4	19.9	1 12	8 48.18	+30 26.1	1.209	2.162	8.7	17.3
1 22	8 35.28	+18 1.8	1.375	2.357	2.3	19.6	1 22	8 36.69	+31 6.0	1.196	2.167	5.6	17.1
2 1	8 26.20	+19 5.0	1.381	2.362	2.9	19.7	2 1	8 24.46	+31 26.9	1.208	2.173	7.0	17.2
2 11	8 17.86	+20 3.0	1.414	2.367	7.9	20.0	2 11	8 13.46	+31 24.8	1.246	2.179	11.2	17.5
2 21	8 11.44	+20 51.1	1.471	2.374	12.4	20.3	2 21	8 5.22	+31 1.4	1.306	2.185	15.4	17.7
3 2	8 7.75	+21 26.7	1.551	2.381	16.2	20.5	3 2	8 0.65	+30 21.1	1.386	2.192	19.1	18.0
<b>179101</b>	2001 <i>SQ</i> <sub>205</sub>		1 26.3 233°35	6°6/22.7	18		<b>310117</b>	2011 <i>BG</i> <sub>119</sub>		1 26.3 304°41	1°7/25.2	18	
12 23	9 4.38	+36 4.7	1.988	2.805	13.3	20.7	12 23	8 55.64	+20				

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>126628</b>	2002 CS <sub>163</sub>		1 26.3 339°68	2°9/24.8	18		<b>241668</b>	2000 OQ <sub>58</sub>		1 26.3 115°29	0°7/26.7	18	
12 23	8 57.19	+24 19.1	1.688	2.524	14.4	19.9	12 23	8 59.54	+14 1.9	1.699	2.511	15.4	20.5
1 2	8 52.45	+24 57.7	1.612	2.519	10.8	19.6	1 2	8 53.90	+14 42.8	1.633	2.526	11.6	20.3
1 12	8 45.03	+25 39.8	1.559	2.515	6.7	19.4	1 12	8 45.76	+15 36.9	1.590	2.541	7.2	20.1
1 22	8 35.71	+26 19.4	1.533	2.511	3.2	19.1	1 22	8 35.93	+16 39.1	1.574	2.554	2.4	19.8
2 1	8 25.70	+26 50.0	1.534	2.507	4.5	19.2	2 1	8 25.56	+17 43.3	1.587	2.568	2.7	19.8
2 11	8 16.40	+27 7.6	1.563	2.504	8.6	19.5	2 11	8 15.96	+18 43.1	1.630	2.581	7.3	20.2
2 21	8 9.01	+27 10.6	1.617	2.501	12.6	19.7	2 21	8 8.23	+19 34.3	1.699	2.593	11.5	20.4
3 2	8 4.39	+27 0.1	1.692	2.498	16.1	19.9	3 2	8 3.12	+20 14.5	1.790	2.605	15.0	20.7
<b>358506</b>	2007 RQ <sub>189</sub>		1 26.3 196°31	3°8/24.3	18		<b>218681</b>	2005 TV <sub>18</sub>		1 26.3 147°05	0°4/26.6	18	
12 23	9 2.41	+26 56.0	1.794	2.620	14.2	21.7	12 23	8 57.36	+15 44.6	2.061	2.871	13.2	21.2
1 2	8 56.25	+27 41.1	1.718	2.619	10.7	21.4	1 2	8 51.98	+16 8.5	1.984	2.877	9.9	21.0
1 12	8 47.31	+28 27.2	1.666	2.617	6.9	21.2	1 12	8 44.48	+16 41.5	1.931	2.882	6.1	20.8
1 22	8 36.40	+29 7.1	1.641	2.614	4.0	21.0	1 22	8 35.53	+17 19.9	1.906	2.887	2.0	20.5
2 1	8 24.79	+29 34.4	1.645	2.611	5.2	21.1	2 1	8 26.09	+17 59.7	1.911	2.892	2.4	20.6
2 11	8 13.94	+29 45.4	1.677	2.608	8.9	21.3	2 11	8 17.22	+18 36.6	1.946	2.896	6.4	20.8
2 21	8 5.10	+29 39.9	1.734	2.604	12.7	21.5	2 21	8 9.85	+19 7.6	2.008	2.900	10.1	21.1
3 2	7 59.13	+29 19.9	1.814	2.600	16.0	21.7	3 2	8 4.67	+19 31.0	2.094	2.904	13.3	21.3
<b>115616</b>	2003 UH <sub>112</sub>		1 26.3 85°31	0°1/26.3	18		<b>249066</b>	2007 TF <sub>405</sub>		1 26.3 22°03	4°9/23.1	18	
12 23	8 55.77	+16 34.6	2.107	2.921	12.8	20.4	12 23	8 57.22	+31 24.8	2.123	2.951	12.2	20.4
1 2	8 50.68	+17 7.9	2.039	2.935	9.5	20.2	1 2	8 52.07	+32 20.2	2.055	2.953	9.3	20.2
1 12	8 43.60	+17 49.4	1.996	2.948	5.8	20.0	1 12	8 44.61	+33 12.8	2.012	2.956	6.5	20.1
1 22	8 35.21	+18 35.2	1.981	2.962	1.8	19.8	1 22	8 35.59	+33 56.2	1.997	2.959	4.9	20.0
2 1	8 26.41	+19 20.8	1.996	2.976	2.3	19.8	2 1	8 26.06	+34 24.9	2.010	2.962	6.0	20.0
2 11	8 18.22	+20 2.1	2.040	2.990	6.2	20.1	2 11	8 17.20	+34 36.2	2.051	2.965	8.6	20.2
2 21	8 11.50	+20 36.1	2.112	3.003	9.8	20.3	2 21	8 10.00	+34 30.2	2.117	2.968	11.5	20.4
3 2	8 6.86	+21 1.5	2.208	3.017	12.8	20.6	3 2	8 5.20	+34 8.9	2.205	2.972	14.1	20.6
<b>327389</b>	2005 UL <sub>430</sub>		1 26.3 5°67	0°1/26.2	18		<b>109666</b>	2001 RR <sub>19</sub>		1 26.3 50°78	0°1/26.4	18	
12 23	8 57.19	+17 48.2	1.828	2.649	14.1	20.9	12 23	8 54.57	+16 36.6	2.091	2.907	12.8	19.4
1 2	8 52.12	+18 3.9	1.750	2.649	10.6	20.7	1 2	8 49.87	+17 2.8	2.018	2.915	9.5	19.2
1 12	8 44.67	+18 27.4	1.695	2.649	6.5	20.5	1 12	8 43.17	+17 37.3	1.971	2.923	5.8	19.0
1 22	8 35.58	+18 55.2	1.668	2.649	2.0	20.2	1 22	8 35.14	+18 16.4	1.950	2.931	1.8	18.7
2 1	8 25.90	+19 22.7	1.669	2.650	2.7	20.2	2 1	8 26.68	+18 56.0	1.960	2.940	2.3	18.8
2 11	8 16.87	+19 46.1	1.699	2.650	7.1	20.5	2 11	8 18.78	+19 32.0	1.998	2.949	6.3	19.0
2 21	8 9.52	+20 2.7	1.755	2.650	11.2	20.7	2 21	8 12.32	+20 1.7	2.064	2.958	9.8	19.3
3 2	8 4.64	+20 11.4	1.835	2.651	14.6	21.0	3 2	8 7.94	+20 23.4	2.153	2.967	12.9	19.5
<b>304027</b>	2006 DM <sub>69</sub>		1 26.3 275°60	1°9/25.4	18		<b>310040</b>	2010 GN <sub>121</sub>		1 26.3 168°47	1°0/26.9	18	
12 23	8 59.69	+21 22.1	1.569	2.401	15.5	21.1	12 23	8 59.23	+13 25.0	2.126	2.924	13.2	22.2
1 2	8 54.65	+21 55.6	1.480	2.385	11.7	20.9	1 2	8 53.33	+13 53.7	2.044	2.930	10.0	22.0
1 12	8 46.59	+22 36.5	1.414	2.370	7.2	20.6	1 12	8 45.31	+14 33.2	1.987	2.934	6.3	21.8
1 22	8 36.26	+23 18.9	1.374	2.354	2.6	20.2	1 22	8 35.81	+15 20.3	1.959	2.938	2.3	21.6
2 1	8 24.93	+23 56.1	1.361	2.338	4.0	20.3	2 1	8 25.78	+16 10.7	1.961	2.941	2.4	21.6
2 11	8 14.18	+24 22.4	1.376	2.322	9.0	20.5	2 11	8 16.28	+16 59.6	1.994	2.943	6.3	21.8
2 21	8 5.45	+24 35.2	1.416	2.306	13.7	20.8	2 21	8 8.24	+17 43.6	2.054	2.945	10.0	22.1
3 2	7 59.79	+24 34.7	1.477	2.290	17.7	21.0	3 2	8 2.38	+18 20.1	2.140	2.946	13.2	22.3
<b>445295</b>	2010 AY <sub>76</sub>		1 26.3 270°21	5°8/23.1	18		<b>187573</b>	2006 VN <sub>147</sub>		1 26.3 43°85	1°5/25.5	18	
12 23	9 0.51	+27 27.0	1.400	2.243	16.4	20.8	12 23	8 57.76	+20 25.1	1.591	2.424	15.3	19.9
1 2	8 55.70	+28 58.4	1.328	2.237	12.5	20.5	1 2	8 52.84	+21 0.0	1.525	2.431	11.4	19.6
1 12	8 47.43	+30 34.6	1.278	2.230	8.4	20.3	1 12	8 45.24	+21 42.0	1.482	2.439	6.9	19.4
1 22	8 36.55	+32 4.0	1.254	2.224	5.8	20.1	1 22	8 35.82	+22 25.5	1.465	2.446	2.3	19.1
2 1	8 24.57	+33 15.2	1.257	2.217	7.6	20.2	2 1	8 25.81	+23 4.1	1.476	2.454	3.6	19.2
2 11	8 13.39	+34 0.8	1.285	2.210	11.7	20.4	2 11	8 16.63	+23 33.1	1.515	2.463	8.1	19.5
2 21	8 4.67	+34 19.3	1.336	2.203	15.9	20.6	2 21	8 9.45	+23 50.2	1.579	2.471	12.4	19.8
3 2	7 59.53	+34 13.8	1.407	2.197	19.6	20.8	3 2	8 5.07	+23 55.3	1.664	2.480	15.9	20.0
<b>50665</b>	2000 EK <sub>104</sub>		1 26.3 299°97	6°1/21.6	18		<b>345989</b>	2007 TP <sub>169</sub>		1 26.3 131°09	6°6/21.2	18	
12 23	8 57.20	+33 38.2	2.116	2.944	12.2	18.0	12 23	9 0.61	+39 34.2	2.554	3.361	11.0	21.0
1 2	8 52.30	+35 5.2	2.042	2.936	9.6	17.8	1 2	8 54.41	+40 44.7	2.496	3.370	8.9	20.8
1 12	8 44.90	+36 29.6	1.993	2.928	7.2	17.7	1 12	8 45.96	+41 47.1	2.464	3.378	7.2	20.7
1 22	8 35.69	+37 43.3	1.971	2.921	6.1	17.6	1 22	8 36.01	+42 34.8	2.460	3.387	6.6	20.7
2 1	8 25.74	+38 39.3	1.978	2.914	7.3	17.6	2 1	8 25.58	+43 3.1	2.484	3.395	7.4	20.8
2 11	8 16.31	+39 13.2	2.012	2.906	9.9	17.8	2 11	8 15.83	+43 9.9	2.535	3.402	9.2	20.9
2 21	8 8.57	+39 24.7	2.070	2.899	12.6	17.9	2 21	8 7.73	+42 56.7	2.612	3.410	11.2	21.0
3 2	8 3.36	+39 16.2	2.150	2.892	15.1	18.1	3 2	8 1.98	+42 26.7	2.709	3.417	13.1	21.2
<b>417288</b>	2006 BB <sub>6</sub>		1 26.3 303°22	2°2/27.1	18		<b>172548</b>	2003 UA <sub>80</sub>		1 26.3 107°02	0°3/26.2	18	
12 23	8 58.24	+14 21.1	1.828	2.639	14.6	19.7	12 23	8 58.91	+16 29.9	1.720	2.539	15.0	20.4
1 2	8 53.10	+13 51.6	1.725	2.616	11.2	19.5	1 2	8 53.47	+17 14.8	1.654	2.552	11.2	20.2
1 12	8 45.44	+13 29.7	1.646	2.593	7.3	19.2	1 12	8 45.53	+18 10.5	1.612	2.565	6.8	20.0
1 22	8 35.89	+13 14.6	1.593	2.570	3.3	18.9	1 22	8 35.91	+19 11.6	1.596	2.578	2.0	19.7
2 1	8 25.47	+13 4.6	1.569	2.547	3.2	18.8	2 1	8 25.74	+20 11.7	1.610	2.590	2.8	19.8
2 11	8 15.48	+12 57.8	1.573	2.525	7.5	19.0	2 11	8 16.34	+21 4.8	1.653	2.602	7.4	20.1
2 21	8 7.08	+12 52.3	1.603	2.503	11.8	19.2	2 21	8 8.78	+21 47.5	1.722	2.614	11.5	20.4
3 2	8 1.19	+12 46.2	1.657	2.481	15.6	19.4	3 2	8 3.83	+22 18.3	1.814	2.625	15.0	20.6
<b>350611</b>	2001 SG <sub>76</sub>		1 26.3 83°74	1°1/26.8	17		<b>467588</b>	2007 UD <sub>141</sub>		1 26.3 89°45	4°7/23.1	18	
12 23	9 3.50	+15 37.6	1.447	2.267	17.3	21.6	12 23	8 58.38	+32 28.3	2.340	3.161	11.4	21.2

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>283959</b>	2004 RZ <sub>12</sub>		1 26.3 119°60	0°8/26.8	18		<b>519935</b>	2013 RB <sub>106</sub>		1 26.3 161°27	5°3/22.4	18	
12 23	9 0.02	+13 40.7	1.716	2.526	15.4	21.2	12 23	9 1.06	+34 57.3	2.551	3.362	10.9	21.9
1 2	8 54.25	+14 18.5	1.650	2.541	11.6	21.0	1 2	8 54.65	+35 59.0	2.484	3.369	8.5	21.8
1 12	8 45.99	+15 9.4	1.606	2.556	7.2	20.8	1 12	8 46.09	+36 55.5	2.444	3.374	6.3	21.7
1 22	8 36.05	+16 8.8	1.590	2.570	2.5	20.5	1 22	8 36.09	+37 40.9	2.431	3.379	5.3	21.6
2 1	8 25.58	+17 10.7	1.603	2.584	2.7	20.6	2 1	8 25.61	+38 10.2	2.449	3.384	6.2	21.7
2 11	8 15.88	+18 8.9	1.646	2.597	7.3	20.9	2 11	8 15.73	+38 21.2	2.496	3.388	8.3	21.8
2 21	8 8.04	+18 59.2	1.715	2.610	11.4	21.2	2 21	8 7.40	+38 14.4	2.568	3.391	10.6	22.0
3 2	8 2.81	+19 39.1	1.807	2.622	14.9	21.4	3 2	8 1.31	+37 52.4	2.663	3.394	12.8	22.1
<b>61418</b>	2000 QR <sub>13</sub>		1 26.3 126°62	1°1/27.2	18		<b>283059</b>	2008 PM <sub>22</sub>		1 26.3 106°50	2°0/27.4	18	
12 23	8 53.80	+13 3.0	2.682	3.477	10.9	20.0	12 23	9 0.87	+11 50.8	1.653	2.458	16.1	21.0
1 2	8 48.88	+13 25.1	2.604	3.488	8.2	19.9	1 2	8 54.88	+12 7.1	1.590	2.477	12.3	20.8
1 12	8 42.41	+13 55.8	2.552	3.497	5.2	19.7	1 12	8 46.36	+12 37.5	1.550	2.496	7.8	20.6
1 22	8 34.91	+14 32.6	2.529	3.507	2.1	19.5	1 22	8 36.18	+13 18.6	1.537	2.514	3.3	20.4
2 1	8 27.07	+15 12.5	2.536	3.516	2.0	19.5	2 1	8 25.54	+14 5.5	1.552	2.532	3.0	20.4
2 11	8 19.65	+15 52.4	2.575	3.525	5.0	19.7	2 11	8 15.75	+14 52.7	1.596	2.549	7.3	20.7
2 21	8 13.32	+16 29.3	2.642	3.534	8.0	19.9	2 21	8 7.91	+15 35.8	1.667	2.565	11.5	21.0
3 2	8 8.60	+17 1.4	2.735	3.543	10.6	20.1	3 2	8 2.74	+16 11.8	1.760	2.581	15.0	21.2
<b>462039</b>	2007 CM <sub>62</sub>		1 26.3 309°01	2°0/27.4	17		<b>384144</b>	2008 YJ <sub>137</sub>		1 26.3 8°19	0°9/25.7	18	
12 23	8 53.82	+11 1.3	1.643	2.459	15.7	21.0	12 23	8 53.70	+17 54.0	2.076	2.897	12.7	20.3
1 2	8 50.23	+11 30.8	1.534	2.427	12.2	20.7	1 2	8 49.39	+18 50.9	1.997	2.897	9.4	20.1
1 12	8 43.97	+12 19.2	1.447	2.395	8.0	20.4	1 12	8 43.00	+19 57.0	1.943	2.898	5.7	19.9
1 22	8 35.57	+13 24.4	1.385	2.363	3.5	20.0	1 22	8 35.18	+21 7.3	1.917	2.899	1.8	19.6
2 1	8 26.02	+14 41.2	1.351	2.332	3.1	19.9	2 1	8 26.79	+22 15.9	1.921	2.900	2.8	19.7
2 11	8 16.69	+16 2.3	1.345	2.300	8.0	20.1	2 11	8 18.88	+23 17.5	1.955	2.901	6.7	20.0
2 21	8 8.91	+17 20.4	1.364	2.269	13.0	20.3	2 21	8 12.38	+24 8.3	2.015	2.903	10.3	20.2
3 2	8 3.78	+18 29.7	1.405	2.239	17.4	20.5	3 2	8 7.99	+24 46.6	2.099	2.905	13.4	20.4
<b>249383</b>	2009 BF <sub>67</sub>		1 26.3 9°91	2°3/28.0	18		<b>2359</b>	Debehogne		1 26.3 208°70	2°5/27.7	18	
12 23	8 52.54	+ 9 17.9	2.186	2.982	13.0	20.6	12 23	8 58.20	+10 44.7	1.894	2.692	14.6	17.3
1 2	8 48.33	+ 9 40.8	2.103	2.983	10.0	20.4	1 2	8 52.87	+10 50.3	1.806	2.688	11.3	17.0
1 12	8 42.25	+10 17.3	2.044	2.984	6.7	20.2	1 12	8 45.21	+11 9.4	1.742	2.684	7.5	16.8
1 22	8 34.90	+11 5.4	2.011	2.985	3.4	20.0	1 22	8 35.87	+11 40.0	1.704	2.679	3.6	16.5
2 1	8 27.06	+12 1.5	2.008	2.986	2.8	20.0	2 1	8 25.87	+12 18.8	1.696	2.674	3.2	16.5
2 11	8 19.67	+13 0.8	2.035	2.987	6.0	20.2	2 11	8 16.38	+13 1.1	1.716	2.668	7.0	16.7
2 21	8 13.53	+13 58.8	2.089	2.989	9.4	20.4	2 21	8 8.45	+13 42.8	1.764	2.662	11.0	16.9
3 2	8 9.29	+14 51.9	2.168	2.991	12.5	20.6	3 2	8 2.89	+14 20.3	1.835	2.655	14.5	17.2
<b>143376</b>	2003 BB <sub>15</sub>		1 26.3 316°29	2°3/24.9	18		<b>207556</b>	2006 LU <sub>5</sub>		1 26.3 96°75	1°3/25.3	18	
12 23	8 56.80	+25 19.1	2.291	3.113	11.6	19.9	12 23	8 55.14	+19 49.2	2.435	3.249	11.3	20.3
1 2	8 51.51	+25 41.0	2.210	3.110	8.7	19.7	1 2	8 50.08	+20 47.1	2.368	3.265	8.3	20.1
1 12	8 44.19	+26 3.7	2.153	3.106	5.4	19.5	1 12	8 43.23	+21 50.6	2.327	3.281	5.0	19.9
1 22	8 35.49	+26 23.0	2.125	3.102	2.6	19.3	1 22	8 35.21	+22 54.9	2.316	3.297	1.8	19.7
2 1	8 26.31	+26 35.3	2.127	3.099	3.6	19.3	2 1	8 26.79	+23 55.3	2.336	3.312	2.8	19.8
2 11	8 17.68	+26 37.9	2.158	3.096	6.8	19.5	2 11	8 18.89	+24 47.5	2.386	3.327	6.0	20.1
2 21	8 10.49	+26 30.2	2.216	3.093	10.0	19.7	2 21	8 12.25	+25 29.2	2.464	3.342	9.1	20.3
3 2	8 5.40	+26 13.1	2.298	3.090	12.9	19.9	3 2	8 7.48	+25 59.6	2.567	3.357	11.7	20.5
<b>14833</b>	Vilenius		1 26.3 119°47	2°5/25.2	18		<b>420757</b>	2013 EL <sub>22</sub>		1 26.3 209°57	1°7/27.3	17	
12 23	9 4.36	+23 32.8	1.675	2.498	15.1	18.3	12 23	8 58.75	+12 6.9	2.182	2.975	13.1	22.8
1 2	8 57.58	+24 6.4	1.614	2.514	11.3	18.1	1 2	8 53.05	+12 22.6	2.087	2.968	10.1	22.6
1 12	8 48.04	+24 42.9	1.576	2.530	6.9	17.9	1 12	8 45.22	+12 49.5	2.017	2.961	6.5	22.4
1 22	8 36.67	+25 15.9	1.566	2.544	2.9	17.7	1 22	8 35.87	+13 25.5	1.975	2.952	2.8	22.1
2 1	8 24.83	+25 39.8	1.584	2.559	4.2	17.8	2 1	8 25.88	+14 6.9	1.963	2.943	2.6	22.1
2 11	8 13.98	+25 50.9	1.632	2.572	8.3	18.1	2 11	8 16.30	+14 49.7	1.982	2.933	6.3	22.3
2 21	8 5.32	+25 48.9	1.705	2.585	12.3	18.4	2 21	8 8.08	+15 30.1	2.029	2.922	10.0	22.5
3 2	7 59.59	+25 35.4	1.800	2.598	15.6	18.6	3 2	8 1.97	+16 5.5	2.101	2.910	13.3	22.7
<b>365683</b>	2010 VE <sub>99</sub>		1 26.3 119°72	5°0/29.6	18		<b>228910</b>	2003 SD <sub>153</sub>		1 26.3 147°94	2°3/24.7	18	
12 23	8 58.50	+ 2 21.2	2.311	3.063	13.7	21.3	12 23	8 56.91	+23 35.8	2.228	3.049	11.9	20.4
1 2	8 52.44	+ 2 3.6	2.241	3.084	11.0	21.2	1 2	8 51.65	+24 24.9	2.153	3.053	8.9	20.2
1 12	8 44.58	+ 2 1.8	2.195	3.105	8.2	21.0	1 12	8 44.32	+25 17.3	2.104	3.057	5.5	20.0
1 22	8 35.58	+ 2 15.5	2.176	3.125	5.7	20.9	1 22	8 35.57	+26 7.9	2.083	3.060	2.6	19.8
2 1	8 26.24	+ 2 43.2	2.186	3.144	5.0	20.9	2 1	8 26.32	+26 51.5	2.092	3.064	3.7	19.9
2 11	8 17.49	+ 3 21.6	2.227	3.163	6.7	21.0	2 11	8 17.61	+27 24.3	2.131	3.067	7.0	20.1
2 21	8 10.07	+ 4 6.4	2.295	3.181	9.3	21.2	2 21	8 10.35	+27 44.7	2.197	3.070	10.3	20.3
3 2	8 4.58	+ 4 53.4	2.389	3.198	11.9	21.4	3 2	8 5.23	+27 52.9	2.286	3.072	13.1	20.5
<b>285608</b>	2000 QS <sub>204</sub>		1 26.3 44°69	1°1/25.9	18		<b>418357</b>	2008 GX <sub>100</sub>		1 26.3 227°47	6°0/22.4	18	
12 23	9 1.99	+20 35.6	1.172	2.017	18.9	19.8	12 23	9 1.02	+33 23.4	2.025	2.848	12.9	21.5
1 2	8 56.41	+20 44.1	1.127	2.038	14.0	19.6	1 2	8 55.23	+34 34.2	1.950	2.843	10.0	21.3
1 12	8 47.51	+20 59.6	1.102	2.060	8.4	19.4	1 12	8 46.76	+35 41.6	1.899	2.836	7.3	21.1
1 22	8 36.51	+21 16.0	1.101	2.083	2.6	19.1	1 22	8 36.37	+36 37.6	1.876	2.830	6.0	21.0
2 1	8 25.14	+21 27.5	1.127	2.106	3.8	19.2	2 1	8 25.24	+37 15.3	1.881	2.823	7.2	21.1
2 11	8 15.21	+21 30.3	1.177	2.130	9.3	19.6	2 11	8 14.76	+37 31.0	1.914	2.816	9.9	21.2
2 21	8 8.04	+21 23.6	1.252	2.155	14.1	20.0	2 21	8 6.14	+37 25.2	1.971	2.809	12.8	21.4
3 2	8 4.35	+21 8.1	1.346	2.180	18.0	20.3	3 2	8 0.25	+37 0.9	2.050	2.801	15.5	21.5
<b>372680</b>	2009 WT <sub>139</sub>		1 26.3 176°05	1°1/25.7	18		<b>273012</b>	2006 DQ <sub>82</sub>		1 26.3 321°35	0°3/26.5	18	
12 23	8 57.89	+20 16.6	2.067	2.885	12.8	21.8	12 23	8 56.04	+16 46.2	1.975	2.792	13.4	21.2
1 2	8 52.47	+20 44.4	1.988										

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>446742</b>	2015 <i>PH</i>		1 26.3	85°74	3°3/28.6	18	<b>482795</b>	2013 <i>PO</i> <sub>29</sub>		1 26.3	164°23	13°2/29.7	18
12 23	9 1.80	+ 3 17.5	1.370	2.158	19.7	20.8	12 23	9 6.87	- 4 15.0	1.313	2.062	22.3	21.3
1 2	8 55.95	+ 4 55.6	1.313	2.186	15.3	20.6	1 2	9 0.19	- 6 30.8	1.242	2.066	19.3	21.1
1 12	8 47.19	+ 7 4.6	1.277	2.214	10.3	20.4	1 12	8 50.10	- 8 22.5	1.191	2.069	16.2	20.9
1 22	8 36.48	+ 9 36.9	1.268	2.241	5.1	20.2	1 22	8 37.50	- 9 41.0	1.161	2.072	13.8	20.8
2 1	8 25.19	+12 20.1	1.289	2.267	3.8	20.2	2 1	8 23.88	-10 20.0	1.156	2.074	13.2	20.8
2 11	8 14.92	+14 59.4	1.339	2.293	8.2	20.5	2 11	8 11.10	-10 19.7	1.174	2.076	14.7	20.9
2 21	8 6.92	+17 23.2	1.417	2.319	12.9	20.8	2 21	8 0.74	- 9 46.9	1.214	2.077	17.5	21.0
3 2	8 2.00	+19 24.9	1.519	2.344	16.8	21.2	3 2	7 53.87	- 8 51.9	1.273	2.077	20.5	21.2
<b>108883</b>	2001 <i>OG</i> <sub>106</sub>		1 26.3	119°48	4°6/29.0	18	<b>319726</b>	2006 <i>UO</i> <sub>87</sub>		1 26.3	143°94	2°1/25.1	18
12 23	8 58.33	+ 4 44.4	2.127	2.895	14.2	19.8	12 23	8 59.94	+22 44.2	2.000	2.820	13.1	21.4
1 2	8 52.51	+ 4 22.5	2.055	2.911	11.3	19.6	1 2	8 54.06	+23 23.1	1.928	2.827	9.8	21.2
1 12	8 44.74	+ 4 15.7	2.006	2.926	8.2	19.4	1 12	8 45.86	+24 5.8	1.881	2.834	6.0	21.0
1 22	8 35.68	+ 4 23.7	1.984	2.941	5.4	19.3	1 22	8 36.08	+24 47.0	1.862	2.841	2.5	20.8
2 1	8 26.23	+ 4 45.0	1.991	2.955	4.8	19.3	2 1	8 25.79	+25 21.3	1.873	2.847	3.6	20.9
2 11	8 17.39	+ 5 16.2	2.027	2.969	6.9	19.4	2 11	8 16.18	+25 45.2	1.913	2.853	7.4	21.1
2 21	8 9.98	+ 5 53.4	2.092	2.982	9.9	19.6	2 21	8 8.25	+25 57.1	1.980	2.859	10.9	21.3
3 2	8 4.64	+ 6 32.4	2.180	2.995	12.7	19.8	3 2	8 2.75	+25 57.6	2.071	2.864	14.0	21.6
<b>74337</b>	1998 <i>VH</i> <sub>15</sub>		1 26.3	88°62	1°9/25.4	18	<b>469275</b>	2016 <i>JC</i> <sub>35</sub>		1 26.3	174°34	0°9/27.1	17
12 23	8 59.77	+21 39.8	1.711	2.538	14.7	19.1	12 23	8 53.42	+13 5.1	2.964	3.756	10.0	21.7
1 2	8 54.17	+22 15.6	1.646	2.549	10.9	18.9	1 2	8 48.56	+13 35.9	2.876	3.758	7.6	21.5
1 12	8 46.00	+22 56.5	1.605	2.560	6.6	18.7	1 12	8 42.24	+14 14.8	2.815	3.760	4.8	21.3
1 22	8 36.10	+23 36.9	1.591	2.571	2.5	18.4	1 22	8 34.94	+14 59.7	2.783	3.761	1.9	21.1
2 1	8 25.69	+24 11.0	1.606	2.582	3.7	18.5	2 1	8 27.27	+15 47.3	2.782	3.762	1.8	21.1
2 11	8 16.11	+24 34.5	1.649	2.593	7.9	18.8	2 11	8 19.92	+16 34.5	2.813	3.763	4.7	21.3
2 21	8 8.48	+24 45.9	1.718	2.604	11.9	19.1	2 21	8 13.52	+17 18.6	2.874	3.763	7.5	21.5
3 2	8 3.55	+24 45.7	1.809	2.615	15.2	19.3	3 2	8 8.59	+17 57.4	2.961	3.763	10.0	21.7
<b>498881</b>	2008 <i>YD</i> <sub>110</sub>		1 26.3	184°27	1°6/27.2	17	<b>181723</b>	1995 <i>DY</i> <sub>6</sub>		1 26.3	210°48	0°3/26.2	18
12 23	8 58.18	+14 9.5	2.611	3.403	11.2	21.5	12 23	8 57.56	+17 32.2	2.000	2.816	13.3	21.5
1 2	8 52.17	+13 47.3	2.522	3.403	8.6	21.4	1 2	8 52.34	+18 0.4	1.916	2.812	10.0	21.3
1 12	8 44.46	+13 30.9	2.459	3.403	5.5	21.2	1 12	8 44.87	+18 37.0	1.856	2.809	6.1	21.1
1 22	8 35.59	+13 19.4	2.426	3.402	2.4	21.0	1 22	8 35.80	+19 17.9	1.824	2.805	1.9	20.8
2 1	8 26.34	+13 11.4	2.423	3.401	2.3	20.9	2 1	8 26.12	+19 58.5	1.822	2.802	2.6	20.8
2 11	8 17.55	+13 5.4	2.452	3.400	5.4	21.1	2 11	8 16.96	+20 34.4	1.848	2.797	6.8	21.1
2 21	8 9.95	+13 0.1	2.509	3.399	8.5	21.3	2 21	8 9.34	+21 2.6	1.902	2.793	10.7	21.3
3 2	8 4.12	+12 54.3	2.593	3.397	11.2	21.5	3 2	8 4.01	+21 21.9	1.980	2.788	14.0	21.5
<b>425398</b>	2010 <i>CD</i> <sub>82</sub>		1 26.3	17°03	0°7/26.8	18	<b>299606</b>	2006 <i>HS</i> <sub>77</sub>		1 26.3	23°62	0°7/26.7	18
12 23	8 54.36	+15 1.7	2.095	2.908	12.9	21.1	12 23	8 57.50	+15 17.5	1.332	2.166	17.7	20.6
1 2	8 49.79	+15 23.8	2.015	2.909	9.7	20.9	1 2	8 53.10	+15 36.5	1.264	2.169	13.4	20.4
1 12	8 43.21	+15 55.4	1.959	2.910	6.0	20.7	1 12	8 45.67	+16 9.6	1.218	2.173	8.3	20.1
1 22	8 35.25	+16 33.4	1.931	2.911	2.1	20.4	1 22	8 36.10	+16 52.1	1.196	2.177	2.8	19.8
2 1	8 26.79	+17 13.9	1.932	2.913	2.3	20.4	2 1	8 25.78	+17 37.9	1.201	2.182	3.1	19.8
2 11	8 18.84	+17 52.7	1.963	2.915	6.2	20.7	2 11	8 16.36	+18 20.3	1.231	2.187	8.6	20.1
2 21	8 12.28	+18 26.7	2.020	2.916	9.9	20.9	2 21	8 9.18	+18 54.8	1.286	2.192	13.5	20.4
3 2	8 7.78	+18 53.6	2.102	2.918	13.0	21.1	3 2	8 5.14	+19 18.9	1.361	2.198	17.6	20.7
<b>295697</b>	2008 <i>TD</i> <sub>169</sub>		1 26.3	6°48	1°6/25.1	18	<b>13702</b>	1998 <i>OE</i> <sub>7</sub>		1 26.3	61°97	0°8/26.1	18
12 23	8 54.29	+20 32.8	2.196	3.018	12.0	20.4	12 23	9 5.39	+21 34.6	1.492	2.317	16.5	17.8
1 2	8 49.76	+21 30.3	2.117	3.018	8.9	20.2	1 2	8 58.36	+21 19.0	1.439	2.340	12.3	17.6
1 12	8 43.22	+22 34.3	2.064	3.018	5.4	20.0	1 12	8 48.48	+21 6.5	1.408	2.363	7.4	17.3
1 22	8 35.26	+23 39.8	2.039	3.019	2.1	19.8	1 22	8 36.86	+20 53.3	1.404	2.386	2.3	17.1
2 1	8 26.77	+24 41.1	2.044	3.019	3.2	19.9	2 1	8 24.97	+20 36.2	1.429	2.409	3.2	17.2
2 11	8 18.74	+25 33.5	2.078	3.019	6.8	20.1	2 11	8 14.34	+20 13.9	1.482	2.432	8.0	17.5
2 21	8 12.07	+26 14.2	2.140	3.020	10.2	20.3	2 21	8 6.13	+19 46.5	1.560	2.455	12.3	17.9
3 2	8 7.46	+26 42.2	2.225	3.021	13.1	20.5	3 2	8 0.99	+19 15.2	1.601	2.478	15.9	18.1
<b>176906</b>	2002 <i>VA</i> <sub>71</sub>		1 26.3	150°75	1°5/25.3	18	<b>110001</b>	2001 <i>SP</i> <sub>63</sub>		1 26.3	130°29	1°8/27.7	18
12 23	8 59.61	+20 51.4	2.291	3.102	12.0	21.3	12 23	8 54.10	+10 54.1	2.646	3.435	11.2	20.2
1 2	8 53.53	+21 38.3	2.218	3.113	8.9	21.1	1 2	8 49.14	+11 6.4	2.567	3.444	8.6	20.0
1 12	8 45.41	+22 30.2	2.171	3.123	5.4	20.9	1 12	8 42.63	+11 28.4	2.513	3.453	5.6	19.8
1 22	8 35.92	+23 22.1	2.152	3.132	2.0	20.7	1 22	8 35.07	+11 58.1	2.487	3.462	2.7	19.7
2 1	8 25.96	+24 9.1	2.165	3.141	3.0	20.8	2 1	8 27.17	+12 33.1	2.492	3.470	2.3	19.6
2 11	8 16.56	+24 47.4	2.209	3.149	6.5	21.0	2 11	8 19.69	+13 10.1	2.528	3.479	5.1	19.8
2 21	8 8.62	+25 15.0	2.280	3.156	9.8	21.2	2 21	8 13.30	+13 46.2	2.593	3.487	8.1	20.0
3 2	8 2.79	+25 31.6	2.376	3.162	12.6	21.4	3 2	8 8.53	+14 19.2	2.683	3.494	10.7	20.2
<b>31377</b>	Kleinwort		1 26.3	313°14	1°0/26.7	18	<b>264090</b>	2009 <i>SL</i> <sub>273</sub>		1 26.3	331°69	2°4/27.7	18
12 23	8 59.33	+17 2.6	1.315	2.151	17.8	18.1	12 23	8 55.17	+10 45.8	1.790	2.598	15.0	21.0
1 2	8 54.77	+16 48.0	1.231	2.136	13.6	17.8	1 2	8 50.73	+10 55.5	1.707	2.595	11.6	20.7
1 12	8 46.89	+16 42.8	1.167	2.122	8.5	17.5	1 12	8 43.97	+11 19.7	1.647	2.592	7.6	20.5
1 22	8 36.53	+16 44.3	1.128	2.108	3.0	17.1	1 22	8 35.57	+11 56.3	1.613	2.589	3.6	20.2
2 1	8 25.10	+16 48.4	1.114	2.095	3.4	17.1	2 1	8 26.52	+12 41.5	1.607	2.586	3.2	20.2
2 11	8 14.39	+16 51.3	1.127	2.083	9.2	17.4	2 11	8 18.01	+13 30.1	1.630	2.584	7.1	20.4
2 21	8 5.97	+16 50.4	1.163	2.070	14.5	17.6	2 21	8 11.09	+14 17.4	1.679	2.582	11.1	20.7
3 2	8 0.95	+16 44.2	1.219	2.059	19.1	17.9	3 2	8 6.55	+14 59.6	1.751	2.580	14.7	20.9
<b>223675</b>	2004 <i>PD</i> <sub>79</sub>		1 26.3	101°95	1°8/27.3	18	<b>417553</b>	2006 <i>UO</i> <sub>80</sub>		1 26.3	207°88	7°7/31.0	18
12 23	8 57.26	+12 50.8	1.987	2.791	13.8	20.4	12 23						

EPHEMERIDES

1 26.3

1 26.4

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>316781</b>	1999 <i>TJ</i> <sub>150</sub>		1 26.3 134°15		2°2/27.5	18	<b>323982</b>	2005 <i>UX</i> <sub>174</sub>		1 26.4 208°34		1°1/25.7	18
12 23	9 2.46	+11 9.2	1.757	2.554	15.7	21.9	12 23	8 58.46	+20 42.1	2.018	2.838	13.1	21.3
1 2	8 56.01	+11 25.2	1.689	2.570	12.0	21.7	1 2	8 53.02	+21 5.6	1.937	2.835	9.8	21.0
1 12	8 47.08	+11 55.3	1.643	2.586	7.7	21.5	1 12	8 45.29	+21 34.2	1.879	2.833	5.9	20.8
1 22	8 36.49	+12 36.4	1.625	2.601	3.5	21.3	1 22	8 35.99	+22 3.7	1.850	2.831	2.0	20.5
2 1	8 25.39	+13 23.8	1.636	2.615	3.1	21.3	2 1	8 26.10	+22 29.6	1.850	2.828	3.0	20.6
2 11	8 15.07	+14 12.3	1.677	2.628	7.2	21.5	2 11	8 16.80	+22 48.3	1.879	2.825	7.0	20.8
2 21	8 6.62	+14 57.4	1.745	2.640	11.2	21.8	2 21	8 9.07	+22 58.2	1.936	2.822	10.7	21.1
3 2	8 0.78	+15 36.1	1.836	2.651	14.7	22.1	3 2	8 3.68	+22 58.8	2.015	2.819	14.0	21.3
<b>322075</b>	2010 <i>VO</i> <sub>112</sub>		1 26.3 11°83		0°7/26.7	18	<b>54721</b>	2001 <i>JX</i> <sub>3</sub>		1 26.4 168°62		1°7/25.4	18
12 23	8 55.78	+15 17.8	1.515	2.344	16.2	20.3	12 23	9 2.41	+20 41.1	1.771	2.590	14.6	19.8
1 2	8 51.53	+15 35.9	1.444	2.346	12.2	20.1	1 2	8 56.24	+21 27.1	1.696	2.595	10.9	19.6
1 12	8 44.59	+16 6.6	1.394	2.348	7.6	19.8	1 12	8 47.39	+22 20.0	1.645	2.599	6.6	19.4
1 22	8 35.77	+16 45.7	1.370	2.351	2.6	19.5	1 22	8 36.66	+23 13.8	1.621	2.602	2.4	19.1
2 1	8 26.29	+17 27.9	1.373	2.354	2.9	19.5	2 1	8 25.25	+24 1.8	1.628	2.604	3.6	19.2
2 11	8 17.56	+18 7.7	1.403	2.358	7.8	19.9	2 11	8 14.55	+24 38.9	1.663	2.606	8.0	19.4
2 21	8 10.76	+18 40.7	1.458	2.362	12.4	20.1	2 21	8 5.76	+25 2.9	1.725	2.607	12.1	19.7
3 2	8 6.75	+19 4.7	1.534	2.367	16.2	20.4	3 2	7 59.74	+25 13.9	1.809	2.607	15.6	19.9
<b>353386</b>	2011 <i>NX</i> <sub>3</sub>		1 26.3 179°28		1°5/25.5	18	<b>460997</b>	2014 <i>WM</i> <sub>356</sub>		1 26.4 18°77		4°5/24.4	18
12 23	9 2.06	+21 3.5	2.017	2.830	13.3	21.9	12 23	9 0.18	+28 36.9	1.554	2.392	15.3	20.6
1 2	8 55.69	+21 37.2	1.936	2.832	9.9	21.6	1 2	8 54.89	+29 9.0	1.490	2.396	11.6	20.4
1 12	8 46.91	+22 16.1	1.881	2.834	6.1	21.4	1 12	8 46.65	+29 39.3	1.449	2.400	7.6	20.2
1 22	8 36.46	+22 55.1	1.854	2.834	2.1	21.1	1 22	8 36.42	+30 0.8	1.433	2.406	4.6	20.0
2 1	8 25.40	+23 29.1	1.857	2.834	3.2	21.2	2 1	8 25.61	+30 7.5	1.445	2.411	5.8	20.1
2 11	8 14.97	+23 54.3	1.890	2.833	7.2	21.5	2 11	8 15.80	+29 56.8	1.483	2.418	9.6	20.3
2 21	8 6.22	+24 8.8	1.951	2.831	11.0	21.7	2 21	8 8.26	+29 29.7	1.545	2.424	13.4	20.5
3 2	7 59.93	+24 12.8	2.035	2.828	14.2	21.9	3 2	8 3.80	+28 49.3	1.629	2.432	16.8	20.8
<b>331817</b>	2003 <i>SV</i> <sub>286</sub>		1 26.3 114°71		0°3/26.6	18	<b>205443</b>	2001 <i>OP</i> <sub>7</sub>		1 26.4 146°40		1°7/27.6	18
12 23	8 57.05	+16 23.5	2.331	3.136	12.0	22.0	12 23	8 55.24	+11 42.2	2.799	3.585	10.7	20.8
1 2	8 51.50	+16 41.4	2.260	3.150	9.0	21.9	1 2	8 49.92	+11 44.0	2.717	3.594	8.2	20.6
1 12	8 44.13	+17 6.2	2.214	3.164	5.5	21.7	1 12	8 43.08	+11 54.0	2.662	3.602	5.3	20.4
1 22	8 35.55	+17 34.9	2.197	3.178	1.8	21.4	1 22	8 35.25	+12 10.6	2.635	3.610	2.5	20.3
2 1	8 26.62	+18 4.2	2.211	3.191	2.1	21.5	2 1	8 27.10	+12 31.8	2.640	3.617	2.3	20.3
2 11	8 18.25	+18 30.9	2.255	3.204	5.7	21.8	2 11	8 19.35	+12 55.1	2.675	3.625	5.0	20.5
2 21	8 11.24	+18 52.7	2.327	3.217	9.0	22.0	2 21	8 12.66	+13 18.1	2.740	3.631	7.8	20.6
3 2	8 6.16	+19 8.4	2.423	3.229	11.8	22.2	3 2	8 7.55	+13 39.1	2.830	3.638	10.3	20.8
<b>462790</b>	2010 <i>MH</i> <sub>103</sub>		1 26.3 44°20		3°1/25.1	16	<b>304125</b>	2006 <i>KU</i> <sub>7</sub>		1 26.4 263°50		4°5/23.9	18
12 23	9 2.63	+24 28.3	1.294	2.136	17.6	20.8	12 23	9 0.28	+26 45.4	1.608	2.443	15.1	20.8
1 2	8 56.63	+24 59.6	1.257	2.167	13.0	20.6	1 2	8 55.16	+27 52.0	1.530	2.435	11.4	20.6
1 12	8 47.54	+25 32.6	1.242	2.198	7.9	20.4	1 12	8 47.00	+29 1.9	1.475	2.428	7.5	20.3
1 22	8 36.59	+25 59.9	1.251	2.230	3.6	20.3	1 22	8 36.60	+30 6.6	1.447	2.420	4.6	20.1
2 1	8 25.43	+26 15.5	1.287	2.262	4.9	20.4	2 1	8 25.28	+30 57.3	1.447	2.412	6.1	20.2
2 11	8 15.73	+26 16.5	1.350	2.294	9.3	20.8	2 11	8 14.65	+31 28.4	1.474	2.404	10.1	20.4
2 21	8 8.67	+26 3.6	1.436	2.327	13.5	21.1	2 21	8 6.15	+31 38.7	1.525	2.396	14.1	20.6
3 2	8 4.87	+25 39.2	1.543	2.360	16.9	21.4	3 2	8 0.75	+31 30.0	1.596	2.387	17.6	20.8
<b>403624</b>	2010 <i>RQ</i> <sub>133</sub>		1 26.3 101°00		4°4/24.6	18	<b>455914</b>	2005 <i>US</i> <sub>224</sub>		1 26.4 109°78		2°3/27.6	18
12 23	9 7.36	+30 48.3	1.854	2.671	14.1	21.3	12 23	8 57.40	+11 53.4	1.904	2.708	14.4	21.4
1 2	8 59.61	+31 8.2	1.795	2.689	10.7	21.1	1 2	8 52.20	+11 48.8	1.826	2.712	11.0	21.2
1 12	8 49.19	+31 23.0	1.762	2.707	7.1	20.9	1 12	8 44.78	+11 55.7	1.771	2.715	7.2	20.9
1 22	8 37.10	+31 26.5	1.756	2.724	4.6	20.8	1 22	8 35.83	+12 12.5	1.743	2.719	3.4	20.7
2 1	8 24.72	+31 14.6	1.779	2.741	5.5	20.9	2 1	8 26.36	+12 36.2	1.744	2.722	3.0	20.7
2 11	8 13.47	+30 46.4	1.831	2.758	8.7	21.1	2 11	8 17.49	+13 3.0	1.774	2.726	6.7	20.9
2 21	8 4.48	+30 4.2	1.910	2.774	12.0	21.3	2 21	8 10.19	+13 29.6	1.830	2.729	10.6	21.2
3 2	7 58.40	+29 11.9	2.012	2.790	14.9	21.6	3 2	8 5.19	+13 53.1	1.910	2.733	13.9	21.4
<b>167141</b>	2003 <i>SZ</i> <sub>196</sub>		1 26.3 118°05		5°7/29.7	18	<b>28808</b>	Ananthnarayan		1 26.4 101°20		1°6/25.5	18
12 23	8 59.65	+ 2 8.3	1.949	2.709	15.6	20.4	12 23	8 59.87	+21 52.1	1.798	2.622	14.2	19.1
1 2	8 53.65	+ 1 43.7	1.880	2.727	12.6	20.2	1 2	8 54.23	+22 16.2	1.727	2.628	10.6	18.9
1 12	8 45.53	+ 1 37.4	1.833	2.745	9.4	20.0	1 12	8 46.08	+22 44.7	1.679	2.634	6.4	18.6
1 22	8 36.01	+ 1 49.8	1.813	2.762	6.6	19.9	1 22	8 36.24	+23 12.6	1.659	2.640	2.3	18.4
2 1	8 26.06	+ 2 19.2	1.821	2.779	5.8	19.9	2 1	8 25.86	+23 35.0	1.668	2.646	3.4	18.5
2 11	8 16.79	+ 3 1.6	1.857	2.795	7.7	20.0	2 11	8 16.24	+23 48.2	1.706	2.651	7.6	18.7
2 21	8 9.11	+ 3 51.9	1.921	2.810	10.7	20.2	2 21	8 8.48	+23 51.1	1.770	2.657	11.6	19.0
3 2	8 3.68	+ 4 44.9	2.009	2.825	13.6	20.5	3 2	8 3.32	+23 43.9	1.856	2.663	14.9	19.2
<b>28172</b>	1998 <i>VZ</i> <sub>30</sub>		1 26.4 318°51		7°6/21.4	18	<b>488858</b>	2005 <i>SF</i> <sub>60</sub>		1 26.4 51°17		1°3/25.8	17
12 23	8 58.72	+32 56.0	1.571	2.411	15.1	16.8	12 23	9 2.30	+19 12.4	1.097	1.943	19.8	20.4
1 2	8 54.31	+34 42.9	1.500	2.402	11.9	16.6	1 2	8 56.83	+19 46.9	1.057	1.969	14.6	20.2
1 12	8 46.65	+36 28.9	1.453	2.393	8.9	16.4	1 12	8 47.90	+20 31.5	1.038	1.996	8.8	20.0
1 22	8 36.52	+38 2.2	1.432	2.384	7.6	16.3	1 22	8 36.78	+21 18.2	1.041	2.023	2.7	19.7
2 1	8 25.32	+39 12.0	1.437	2.376	9.2	16.4	2 1	8 25.30	+21 58.7	1.071	2.051	4.0	19.9
2 11	8 14.84	+39 52.1	1.467	2.368	12.4	16.5	2 11	8 15.34	+22 27.3	1.125	2.078	9.6	20.3
2 21	8 6.64	+40 2.3	1.520	2.361	15.8	16.7	2 21	8 8.27	+22 42.0	1.203	2.106	14.5	20.6
3 2	8 1.81	+39 46.7	1.592	2.354	18.8	16.9	3 2	8 4.78	+22 43.4	1.300	2.134	18.5	21.0
<b>76866</b>	2000 <i>XK</i> <sub>49</sub>		1 26.4 284°68		5°6/21.9	18	<b>219338</b>	2000 <i>QZ</i> <sub>14</sub>		1 26.4 234°12		3°2/24.7	18
12 23	8 58.81	+25 40.1	1.654	2.489	14.7	18.2	12 23						

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>440907</b>	2006 VA <sub>35</sub>		1 26.4 77°09	2°1/27.2	17		<b>429046</b>	2009 DC <sub>2</sub>		1 26.4 18°15	0°9/26.9	18	
12 23	9 1.92	+12 58.8	1.254	2.079	19.1	21.8	12 23	8 53.59	+14 24.6	1.938	2.755	13.6	21.1
1 2	8 56.35	+13 2.8	1.197	2.095	14.5	21.5	1 2	8 49.38	+14 46.1	1.864	2.759	10.3	20.9
1 12	8 47.61	+13 22.9	1.161	2.112	9.2	21.3	1 12	8 43.08	+15 18.4	1.813	2.764	6.4	20.7
1 22	8 36.74	+13 55.3	1.149	2.128	3.8	21.0	1 22	8 35.35	+15 58.2	1.789	2.769	2.3	20.4
2 1	8 25.29	+14 34.4	1.164	2.144	3.5	21.0	2 1	8 27.12	+16 41.3	1.793	2.774	2.4	20.4
2 11	8 14.99	+15 13.8	1.205	2.160	8.7	21.4	2 11	8 19.46	+17 23.1	1.826	2.780	6.5	20.7
2 21	8 7.19	+15 48.6	1.270	2.176	13.6	21.7	2 21	8 13.28	+18 0.0	1.886	2.786	10.2	21.0
3 2	8 2.71	+16 15.9	1.356	2.192	17.7	22.0	3 2	8 9.26	+18 29.6	1.970	2.793	13.5	21.2
<b>21565</b>	1998 QZ <sub>102</sub>		1 26.4 191°33	0°2/26.5	18		<b>194153</b>	2001 TW <sub>9</sub>		1 26.4 155°32	0°1/26.4	18	
12 23	8 55.71	+15 53.1	2.689	3.489	10.7	18.9	12 23	9 1.76	+16 27.6	1.925	2.732	14.1	21.6
1 2	8 50.46	+16 23.5	2.600	3.487	8.1	18.8	1 2	8 55.47	+16 57.1	1.850	2.741	10.6	21.4
1 12	8 43.53	+17 1.1	2.536	3.485	5.0	18.6	1 12	8 46.80	+17 35.8	1.799	2.750	6.5	21.2
1 22	8 35.44	+17 43.2	2.502	3.483	1.6	18.3	1 22	8 36.50	+18 19.4	1.777	2.758	2.0	20.9
2 1	8 26.91	+18 26.2	2.499	3.479	1.9	18.3	2 1	8 25.64	+19 2.8	1.784	2.765	2.5	20.9
2 11	8 18.73	+19 6.7	2.527	3.475	5.3	18.6	2 11	8 15.46	+19 41.4	1.822	2.771	6.9	21.2
2 21	8 11.64	+19 42.1	2.585	3.471	8.4	18.7	2 21	8 6.99	+20 12.3	1.887	2.776	10.9	21.5
3 2	8 6.23	+20 10.9	2.667	3.466	11.1	18.9	3 2	8 0.98	+20 34.2	1.976	2.780	14.2	21.7
<b>165384</b>	2000 WU <sub>175</sub>		1 26.4 37°07	0°5/26.6	18		<b>232829</b>	2004 SS <sub>60</sub>		1 26.4 94°90	0°7/26.7	18	
12 23	8 58.24	+16 12.4	1.270	2.107	18.1	20.4	12 23	8 59.07	+16 27.0	2.080	2.888	13.2	20.7
1 2	8 53.66	+16 26.0	1.212	2.119	13.6	20.1	1 2	8 53.18	+16 25.6	2.012	2.903	9.9	20.5
1 12	8 46.00	+16 52.3	1.175	2.131	8.4	19.9	1 12	8 45.24	+16 31.1	1.968	2.918	6.1	20.3
1 22	8 36.26	+17 26.5	1.162	2.143	2.7	19.6	1 22	8 35.98	+16 40.9	1.952	2.932	2.1	20.0
2 1	8 25.92	+18 2.3	1.175	2.156	3.2	19.6	2 1	8 26.35	+16 52.1	1.966	2.946	2.3	20.1
2 11	8 16.64	+18 34.1	1.214	2.170	8.6	20.0	2 11	8 17.41	+17 2.0	2.009	2.960	6.2	20.4
2 21	8 9.74	+18 58.0	1.277	2.185	13.5	20.3	2 21	8 10.03	+17 8.6	2.081	2.974	9.8	20.6
3 2	8 6.04	+19 12.3	1.361	2.199	17.6	20.6	3 2	8 4.83	+17 11.0	2.176	2.988	12.8	20.8
<b>135253</b>	2001 SL <sub>41</sub>		1 26.4 78°23	0°3/26.6	18		<b>303526</b>	2005 ED <sub>234</sub>		1 26.4 19°96	5°3/23.8	18	
12 23	8 56.61	+16 55.5	2.279	3.087	12.1	19.8	12 23	8 59.36	+27 51.9	1.355	2.202	16.7	20.0
1 2	8 51.20	+17 6.0	2.213	3.105	9.0	19.6	1 2	8 54.75	+28 57.8	1.294	2.205	12.6	19.7
1 12	8 43.95	+17 22.9	2.173	3.123	5.5	19.4	1 12	8 46.83	+30 4.8	1.256	2.209	8.3	19.5
1 22	8 35.55	+17 43.3	2.161	3.141	1.8	19.2	1 22	8 36.58	+31 3.2	1.242	2.213	5.4	19.3
2 1	8 26.83	+18 4.1	2.179	3.159	2.1	19.2	2 1	8 25.55	+31 43.8	1.254	2.218	7.0	19.4
2 11	8 18.72	+18 22.4	2.227	3.177	5.7	19.5	2 11	8 15.58	+32 1.7	1.292	2.224	11.0	19.7
2 21	8 12.00	+18 36.5	2.303	3.194	9.0	19.7	2 21	8 8.11	+31 56.9	1.352	2.230	15.1	19.9
3 2	8 7.23	+18 45.0	2.403	3.212	11.8	20.0	3 2	8 4.07	+31 33.0	1.432	2.237	18.6	20.2
<b>129014</b>	2004 TE <sub>317</sub>		1 26.4 247°58	1°1/27.0	18		<b>197557</b>	2004 FC <sub>116</sub>		1 26.4 195°97	3°7/24.2	18	
12 23	8 56.85	+14 30.7	2.157	2.962	12.8	20.5	12 23	9 3.38	+25 46.2	1.862	2.683	13.9	21.1
1 2	8 51.72	+14 37.8	2.063	2.952	9.8	20.3	1 2	8 57.09	+26 49.6	1.782	2.680	10.5	20.9
1 12	8 44.49	+14 53.9	1.993	2.941	6.2	20.0	1 12	8 48.02	+27 56.2	1.727	2.677	6.7	20.6
1 22	8 35.78	+15 16.6	1.951	2.931	2.4	19.8	1 22	8 36.94	+28 58.4	1.700	2.673	3.9	20.4
2 1	8 26.45	+15 43.0	1.939	2.920	2.4	19.7	2 1	8 25.06	+29 48.8	1.702	2.668	5.2	20.5
2 11	8 17.55	+16 9.4	1.957	2.908	6.3	20.0	2 11	8 13.81	+30 22.3	1.733	2.662	8.9	20.7
2 21	8 10.00	+16 33.0	2.002	2.897	10.0	20.2	2 21	8 4.47	+30 37.6	1.791	2.656	12.6	20.9
3 2	8 4.53	+16 51.8	2.072	2.886	13.3	20.4	3 2	7 57.93	+30 36.4	1.871	2.648	15.9	21.1
<b>419252</b>	2009 VD <sub>64</sub>		1 26.4 43°09	7°8/30.4	18		<b>502674</b>	2015 CZ <sub>54</sub>		1 26.4 286°19	7°5/21.8	17	
12 23	8 56.09	- 0 53.6	1.831	2.588	16.6	20.4	12 23	9 4.90	+42 38.8	2.369	3.167	12.0	21.7
1 2	8 51.23	- 1 51.4	1.760	2.597	13.8	20.2	1 2	8 57.91	+43 21.9	2.296	3.160	10.0	21.5
1 12	8 44.20	- 2 29.0	1.709	2.606	10.9	20.0	1 12	8 48.32	+43 53.8	2.247	3.153	8.2	21.4
1 22	8 35.68	- 2 44.1	1.683	2.616	8.6	19.9	1 22	8 36.97	+44 7.5	2.225	3.146	7.5	21.4
2 1	8 26.65	- 2 36.5	1.682	2.625	7.8	19.9	2 1	8 25.12	+43 58.3	2.231	3.139	8.3	21.4
2 11	8 18.24	- 2 8.9	1.709	2.635	9.2	20.0	2 11	8 14.12	+43 25.3	2.264	3.132	10.1	21.5
2 21	8 11.39	- 1 26.7	1.760	2.645	11.7	20.2	2 21	8 5.12	+42 31.0	2.321	3.125	12.3	21.6
3 2	8 6.81	- 0 36.0	1.835	2.656	14.4	20.4	3 2	7 58.86	+41 20.3	2.401	3.118	14.4	21.8
<b>322512</b>	2011 WJ <sub>98</sub>		1 26.4 273°49	1°8/25.4	18		<b>14082</b>	1997 GK <sub>21</sub>		1 26.4 241°63	1°5/27.1	18	
12 23	8 59.08	+20 41.8	1.669	2.498	14.9	21.0	12 23	9 0.01	+13 16.5	1.705	2.514	15.5	19.6
1 2	8 54.16	+21 22.0	1.577	2.481	11.2	20.8	1 2	8 54.69	+13 29.9	1.611	2.501	11.9	19.3
1 12	8 46.39	+22 10.6	1.508	2.464	6.9	20.5	1 12	8 46.64	+13 56.7	1.540	2.488	7.7	19.1
1 22	8 36.47	+23 1.9	1.466	2.446	2.5	20.1	1 22	8 36.56	+14 34.0	1.495	2.474	3.0	18.7
2 1	8 25.55	+23 49.1	1.451	2.429	3.8	20.2	2 1	8 25.54	+15 17.3	1.479	2.459	2.9	18.7
2 11	8 15.12	+24 26.2	1.465	2.411	8.6	20.4	2 11	8 15.00	+16 1.4	1.491	2.444	7.7	19.0
2 21	8 6.53	+24 50.2	1.504	2.393	13.1	20.6	2 21	8 6.20	+16 41.5	1.530	2.428	12.3	19.2
3 2	8 0.81	+25 0.3	1.564	2.375	17.0	20.9	3 2	8 0.10	+17 14.6	1.591	2.412	16.3	19.4
<b>256155</b>	2006 VO <sub>44</sub>		1 26.4 108°31	6°7/21.7	18		<b>404227</b>	2013 DB <sub>5</sub>		1 26.4 267°67	0°6/26.1	17	
12 23	9 6.42	+37 22.7	2.273	3.079	12.2	20.7	12 23	8 59.31	+17 58.8	1.647	2.471	15.3	21.7
1 2	8 58.85	+38 51.8	2.231	3.108	9.7	20.5	1 2	8 54.34	+18 28.3	1.554	2.455	11.6	21.4
1 12	8 48.77	+40 12.4	2.216	3.136	7.5	20.5	1 12	8 46.52	+19 8.4	1.483	2.438	7.2	21.1
1 22	8 37.06	+41 16.4	2.229	3.163	6.7	20.4	1 22	8 36.55	+19 54.4	1.439	2.420	2.2	20.8
2 1	8 24.94	+41 58.1	2.272	3.190	7.6	20.5	2 1	8 25.57	+20 40.0	1.423	2.403	3.1	20.8
2 11	8 13.71	+42 15.6	2.343	3.215	9.6	20.7	2 11	8 15.06	+21 19.6	1.435	2.385	8.3	21.0
2 21	8 4.48	+42 11.0	2.438	3.240	11.8	20.9	2 21	8 6.39	+21 49.3	1.472	2.367	13.0	21.3
3 2	7 57.93	+41 48.3	2.556	3.264	13.8	21.1	3 2	8 0.56	+22 7.5	1.531	2.348	17.0	21.5
<b>374008</b>	2004 CL <sub>42</sub>		1 26.4 19°51	6°5/24.4	18		<b>238410</b>	2004 EO <sub>65</sub>		1 26.4 313°59	4°4/22.8	18	
12 23	9 5.54	+35 59.7	1.587	2.415	15.6	19.6	12 23	8 55.17	+27 19.6	2.113	2.943	12.1	19.6











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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>204573</b>	2005 <i>EF</i> <sub>327</sub>		1 26.4	7°87'	0°8'	26.9 18	<b>184162</b>	2004 <i>LB</i> <sub>3</sub>		1 26.4	319°54'	1°1'	25.8 18
12 23	8 55.24	+14 48.6	2.120	2.930	12.9	20.5	12 23	8 53.30	+15 49.5	1.426	2.263	16.5	19.3
<b>282836</b>	2006 <i>UJ</i> <sub>28</sub>		1 26.4	232°93'	7°6'	30.7 18	<b>222346</b>	2000 <i>WS</i> <sub>65</sub>		1 26.4	55°49'	1°4'	27.2 18
12 23	8 56.23	- 1 39.8	1.840	2.593	16.7	20.7	12 23	8 57.31	+14 4.8	1.807	2.620	14.6	20.1
<b>57510</b>	2001 <i>SG</i> <sub>280</sub>		1 26.4	164°20'	1°0'	17.1 18	<b>399945</b>	2006 <i>AS</i> <sub>23</sub>		1 26.4	67°04'	0°2'	26.4 18
12 23	8 57.69	+14 1.1	2.048	2.853	13.4	19.6	12 23	9 2.80	+18 38.1	1.364	2.195	17.5	21.4
<b>90330</b>	2003 <i>FT</i> <sub>90</sub>		1 26.4	178°36'	3°5'	28.2 18	<b>45310</b>	2000 <i>AX</i> <sub>55</sub>		1 26.5	90°65'	0°8'	26.0 18
12 23	9 0.34	+ 8 48.2	1.845	2.635	15.3	20.0	12 23	9 1.40	+18 51.2	1.749	2.568	14.8	19.0
<b>464657</b>	2001 <i>RU</i> <sub>112</sub>		1 26.4	218°07'	0°2'	26.3 17	<b>197504</b>	2004 <i>BS</i> <sub>117</sub>		1 26.5	45°37'	3°5'	24.6 18
12 23	8 55.67	+17 55.3	3.041	3.840	9.6	23.0	12 23	8 59.38	+25 51.0	1.691	2.524	14.5	19.5
<b>462310</b>	2008 <i>GO</i> <sub>97</sub>		1 26.4	289°28'	7°4'	22.2 16	<b>111140</b>	2001 <i>VV</i> <sub>96</sub>		1 26.5	19°14'	1°8'	27.7 18
12 23	9 2.24	+35 30.6	1.758	2.586	14.3	21.6	12 23	8 54.00	+ 9 45.7	1.562	2.377	16.4	19.0
<b>330471</b>	2007 <i>ER</i> <sub>199</sub>		1 26.4	263°61'	1°7'	25.5 18	<b>465938</b>	2011 <i>AR</i> <sub>20</sub>		1 26.5	93°92'	0°9'	26.8 18
12 23	8 58.19	+21 36.4	2.038	2.858	12.9	21.0	12 23	9 6.78	+18 23.2	1.968	2.769	14.1	21.2
<b>431624</b>	2007 <i>WE</i> <sub>1</sub>		1 26.4	84°44'	6°0'	30.6 18	<b>74931</b>	1999 <i>TA</i> <sub>159</sub>		1 26.5	188°76'	2°0'	27.6 18
12 23	8 56.45	- 1 10.7	2.460	3.193	13.4	21.2	12 23	8 59.47	+11 53.7	1.939	2.737	14.3	20.7
<b>280250</b>	2002 <i>XY</i> <sub>10</sub>		1 26.4	98°12'	4°8'	22.9 18	<b>165788</b>	2001 <i>RV</i> <sub>19</sub>		1 26.5	104°92'	1°6'	27.6 18
12 23	8 58.41	+31 37.6	2.344	3.164	11.4	20.4	12 23	8 54.85	+11 40.0	2.425	3.219	11.9	20.2

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>340733</b>	2006 <i>SO</i> <sub>164</sub>		1 26.5 154°87	0°3/26.3	18		<b>335774</b>	2007 <i>EY</i> <sub>178</sub>		1 26.5 270°59	2°4/25.1	17	
12 23	8 58.98	+20 0.8	2.589	3.394	11.0	20.8	12 23	8 59.99	+24 30.8	2.158	2.976	12.4	21.3
<b>39968</b>	1998 <i>GG</i> <sub>3</sub>		1 26.5 244°46	1°6/25.4	18		<b>3132</b>	Landgraf		1 26.5 91°22	0°4/26.2	18	
12 23	8 59.50	+19 17.3	1.969	2.785	13.5	19.5	12 23	8 55.62	+18 3.9	2.358	3.169	11.7	16.8
<b>310946</b>	2003 <i>TX</i> <sub>28</sub>		1 26.5 206°96	0°4/26.2	18		<b>459291</b>	2012 <i>GT</i> <sub>12</sub>		1 26.5 188°32	2°0/24.9	18	
12 23	9 0.91	+18 24.7	2.010	2.820	13.4	21.6	12 23	8 57.63	+21 53.4	2.276	3.093	11.9	21.7
<b>18608</b>	1998 <i>BU</i> <sub>45</sub>		1 26.5 339°29	0°4/26.3	18		<b>97995</b>	2000 <i>QX</i> <sub>187</sub>		1 26.5 135°61	1°1/25.8	18	
12 23	8 56.99	+18 34.2	1.234	2.080	18.0	18.0	12 23	9 2.26	+19 28.9	1.927	2.740	13.9	20.3
<b>326201</b>	2012 <i>CS</i> <sub>17</sub>		1 26.5 251°73	0°6/26.8	18		<b>254020</b>	2004 <i>FU</i> <sub>87</sub>		1 26.5 331°92	0°8/26.1	18	
12 23	8 57.80	+15 18.0	1.778	2.595	14.7	21.2	12 23	8 56.37	+18 15.3	1.477	2.313	16.1	20.8
<b>58944</b>	1998 <i>QO</i> <sub>41</sub>		1 26.5 177°14	1°3/25.9	18		<b>139417</b>	2001 <i>ON</i> <sub>18</sub>		1 26.5 216°22	1°8/27.6	18	
12 23	9 3.12	+20 26.9	1.551	2.376	16.0	19.4	12 23	8 57.87	+11 38.1	2.120	2.915	13.4	21.1
<b>423878</b>	2006 <i>RG</i> <sub>68</sub>		1 26.5 125°87	5°5/22.9	18		<b>15975</b>	1998 <i>FW</i> <sub>108</sub>		1 26.5 64°92	1°4/27.3	18	
12 23	9 2.42	+37 7.4	2.539	3.346	11.1	21.0	12 23	8 56.19	+13 54.1	2.218	3.021	12.6	18.4
<b>61632</b>	2000 <i>QZ</i> <sub>102</sub>		1 26.5 160°35	3°1/24.5	18		<b>22338</b>	Janemojo		1 26.5 207°87	2°3/28.5	18	
12 23	8 58.98	+25 2.2	2.051	2.874	12.7	19.2	12 23	8 54.81	+ 7 45.5	2.935	3.705	10.7	19.3
<b>483746</b>	2005 <i>UQ</i> <sub>68</sub>		1 26.5 56°34	7°8/23.9	18		<b>107226</b>	2001 <i>BC</i> <sub>52</sub>		1 26.5 318°13	0°4/26.3	18	
12 23	9 8.69	+34 9.6	1.219	2.060	18.6	20.5	12 23	8 56.97	+17 27.4	1.430	2.265	16.6	20.5







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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>286490</b>	2002 <i>AJ</i> <sub>206</sub>		1 26.5 151°58	1.2°/25.6	18		<b>401972</b>	2002 <i>TN</i> <sub>199</sub>		1 26.5 66°24	10°9°/30.7	18	
12 23	8 58.84	+19 8.5	2.359	3.166	11.8	21.2	12 23	9 7.29	- 4 49.1	1.674	2.397	19.2	19.4
1 2	8 53.20	+20 9.7	2.283	3.176	8.8	21.0	1 2	8 59.74	- 6 56.7	1.621	2.425	16.4	19.3
1 12	8 45.59	+21 17.7	2.233	3.185	5.3	20.8	1 12	8 49.64	- 8 40.6	1.590	2.454	13.7	19.1
1 22	8 36.63	+22 27.6	2.213	3.193	1.8	20.6	1 22	8 37.91	- 9 55.1	1.584	2.483	11.6	19.1
2 1	8 27.15	+23 33.8	2.224	3.201	2.8	20.7	2 1	8 25.77	-10 36.8	1.603	2.511	10.9	19.1
2 11	8 18.14	+24 31.8	2.266	3.208	6.3	20.9	2 11	8 14.59	-10 47.5	1.649	2.540	11.9	19.2
2 21	8 10.47	+25 18.6	2.337	3.215	9.5	21.1	2 21	8 5.46	-10 32.7	1.719	2.568	13.9	19.4
3 2	8 4.78	+25 53.3	2.432	3.220	12.3	21.3	3 2	7 59.07	-10 0.1	1.811	2.596	16.0	19.6
<b>82323</b>	2001 <i>KP</i> <sub>75</sub>		1 26.5 142°82	4°1°/23.5	18		<b>432123</b>	2009 <i>BV</i> <sub>34</sub>		1 26.5 66°43	1°0°/25.8	18	
12 23	9 1.88	+28 56.5	2.365	3.179	11.6	20.1	12 23	8 55.97	+19 40.8	2.179	2.997	12.3	21.3
1 2	8 55.55	+30 8.0	2.300	3.193	8.7	19.9	1 2	8 51.15	+20 19.0	2.110	3.008	9.1	21.1
1 12	8 47.06	+31 18.7	2.262	3.205	5.9	19.8	1 12	8 44.35	+21 3.1	2.066	3.020	5.5	20.9
1 22	8 37.09	+32 22.2	2.252	3.217	4.1	19.7	1 22	8 36.25	+21 48.8	2.050	3.031	1.8	20.7
2 1	8 26.61	+33 12.7	2.274	3.229	5.1	19.8	2 1	8 27.71	+22 31.4	2.064	3.042	2.7	20.8
2 11	8 16.72	+33 46.8	2.325	3.239	7.8	19.9	2 11	8 19.74	+23 7.1	2.107	3.054	6.3	21.0
2 21	8 8.36	+34 4.0	2.404	3.249	10.5	20.1	2 21	8 13.17	+23 33.6	2.178	3.065	9.7	21.3
3 2	8 2.24	+34 5.8	2.505	3.258	12.9	20.3	3 2	8 8.63	+23 50.2	2.273	3.077	12.6	21.5
<b>344534</b>	2002 <i>TJ</i> <sub>313</sub>		1 26.5 113°16	2°2°/28.3	18		<b>238074</b>	2003 <i>FG</i> <sub>32</sub>		1 26.5 297°91	3°1°/28.0	18	
12 23	8 55.10	+ 8 57.2	2.497	3.279	12.0	21.4	12 23	8 57.10	+ 9 55.3	1.416	2.232	17.7	20.7
1 2	8 50.18	+ 9 21.2	2.422	3.293	9.2	21.2	1 2	8 53.11	+10 4.6	1.329	2.220	13.9	20.4
1 12	8 43.63	+ 9 57.2	2.371	3.307	6.2	21.1	1 12	8 46.17	+10 33.5	1.263	2.208	9.3	20.1
1 22	8 35.98	+10 43.0	2.349	3.321	3.1	20.9	1 22	8 36.97	+11 20.0	1.221	2.196	4.6	19.8
2 1	8 27.96	+11 35.3	2.357	3.334	2.6	20.9	2 1	8 26.74	+12 19.6	1.205	2.184	3.8	19.8
2 11	8 20.39	+12 30.2	2.396	3.347	5.3	21.1	2 11	8 17.03	+13 24.9	1.216	2.173	8.5	20.0
2 21	8 13.97	+13 23.8	2.464	3.360	8.3	21.3	2 21	8 9.27	+14 29.0	1.251	2.161	13.5	20.2
3 2	8 9.25	+14 13.1	2.557	3.372	11.0	21.5	3 2	8 4.51	+15 26.0	1.308	2.150	17.9	20.5
<b>35006</b>	1979 <i>ON</i> <sub>8</sub>		1 26.5 112°78	2°3°/28.1	18		<b>150839</b>	2001 <i>SD</i> <sub>47</sub>		1 26.5 112°16	5°2°/24.1	18	
12 23	8 57.70	+ 9 9.7	2.067	2.856	13.9	19.1	12 23	9 5.70	+29 3.3	1.569	2.399	15.7	20.0
1 2	8 52.41	+ 9 39.8	1.996	2.872	10.7	19.0	1 2	8 59.24	+30 3.7	1.512	2.412	11.9	19.8
1 12	8 45.11	+10 24.2	1.949	2.888	7.1	18.8	1 12	8 49.66	+31 2.6	1.477	2.425	7.9	19.6
1 22	8 36.47	+11 20.3	1.929	2.903	3.4	18.6	1 22	8 37.98	+31 51.2	1.469	2.438	5.3	19.5
2 1	8 27.38	+12 23.4	1.940	2.918	2.8	18.6	2 1	8 25.68	+32 21.7	1.489	2.450	6.5	19.6
2 11	8 18.86	+13 28.3	1.981	2.933	6.1	18.8	2 11	8 14.47	+32 30.7	1.536	2.462	10.1	19.8
2 21	8 11.79	+14 30.2	2.049	2.947	9.7	19.0	2 21	8 5.67	+32 19.3	1.608	2.473	13.8	20.1
3 2	8 6.80	+15 25.6	2.143	2.961	12.8	19.3	3 2	8 0.13	+31 51.1	1.700	2.485	16.9	20.3
<b>384987</b>	2012 <i>TO</i> <sub>188</sub>		1 26.5 127°20	2°5°/28.3	18		<b>52732</b>	1998 <i>HT</i> <sub>15</sub>		1 26.5 299°33	4°1°/29.4	18	
12 23	8 55.88	+ 9 24.6	2.718	3.496	11.2	21.1	12 23	8 53.00	+ 4 27.8	2.302	3.075	13.1	19.2
1 2	8 50.62	+ 9 14.7	2.638	3.507	8.7	20.9	1 2	8 48.95	+ 4 29.1	2.203	3.063	10.6	19.0
1 12	8 43.83	+ 9 14.1	2.584	3.517	5.9	20.8	1 12	8 43.07	+ 4 46.0	2.128	3.050	7.7	18.8
1 22	8 36.03	+ 9 22.0	2.558	3.527	3.3	20.6	1 22	8 35.89	+ 5 18.2	2.079	3.038	5.0	18.6
2 1	8 27.91	+ 9 36.7	2.563	3.537	2.8	20.6	2 1	8 28.14	+ 6 3.5	2.058	3.026	4.2	18.6
2 11	8 20.20	+ 9 55.8	2.598	3.546	5.2	20.8	2 11	8 20.70	+ 6 58.3	2.067	3.014	6.3	18.7
2 21	8 13.57	+10 16.9	2.662	3.556	7.9	20.9	2 21	8 14.37	+ 7 58.0	2.103	3.002	9.4	18.8
3 2	8 8.53	+10 37.8	2.752	3.564	10.4	21.1	3 2	8 9.83	+ 8 58.0	2.164	2.991	12.3	19.0
<b>12496</b>	Ekhholm		1 26.5 166°16	1°3°/25.7	18		<b>144616</b>	2004 <i>FJ</i> <sub>62</sub>		1 26.5 241°55	0°6°/26.9	18	
12 23	9 0.94	+20 16.1	2.065	2.878	13.1	19.1	12 23	8 58.05	+15 1.8	1.935	2.745	13.9	20.7
1 2	8 55.02	+20 57.2	1.988	2.883	9.7	18.9	1 2	8 53.08	+15 24.9	1.845	2.737	10.6	20.5
1 12	8 46.82	+21 44.3	1.935	2.887	5.9	18.7	1 12	8 45.78	+15 58.8	1.778	2.728	6.6	20.2
1 22	8 37.04	+22 32.6	1.911	2.891	2.1	18.5	1 22	8 36.78	+16 40.2	1.739	2.719	2.3	19.9
2 1	8 26.67	+23 16.7	1.917	2.894	3.0	18.5	2 1	8 27.06	+17 24.5	1.729	2.710	2.4	19.9
2 11	8 16.89	+23 52.2	1.953	2.897	6.9	18.8	2 11	8 17.80	+18 7.0	1.749	2.701	6.8	20.2
2 21	8 8.69	+24 17.0	2.017	2.899	10.6	19.0	2 21	8 10.05	+18 43.9	1.795	2.692	10.9	20.4
3 2	8 2.81	+24 30.7	2.104	2.900	13.7	19.2	3 2	8 4.62	+19 12.9	1.865	2.682	14.4	20.6
<b>234883</b>	2002 <i>TW</i> <sub>61</sub>		1 26.5 140°98	3°0°/28.3	18		<b>282837</b>	2006 <i>UO</i> <sub>47</sub>		1 26.5 184°91	4°1°/29.4	17	
12 23	8 56.31	+ 9 26.1	2.256	3.044	12.9	20.0	12 23	8 54.57	+ 4 10.4	2.614	3.375	12.1	21.0
1 2	8 51.30	+ 9 11.5	2.172	3.045	10.1	19.9	1 2	8 49.81	+ 3 54.5	2.524	3.375	9.7	20.8
1 12	8 44.42	+ 9 8.1	2.111	3.046	6.9	19.7	1 12	8 43.44	+ 3 51.4	2.458	3.374	7.1	20.6
1 22	8 36.26	+ 9 14.9	2.078	3.047	3.8	19.5	1 22	8 35.97	+ 4 1.2	2.420	3.374	4.8	20.5
2 1	8 27.62	+ 9 30.3	2.074	3.048	3.3	19.4	2 1	8 28.08	+ 4 22.5	2.411	3.373	4.2	20.4
2 11	8 19.45	+ 9 51.3	2.100	3.049	6.1	19.6	2 11	8 20.55	+ 4 52.8	2.431	3.373	5.9	20.5
2 21	8 12.54	+10 15.1	2.153	3.050	9.3	19.8	2 21	8 14.06	+ 5 29.0	2.480	3.372	8.5	20.7
3 2	8 7.54	+10 38.6	2.231	3.051	12.2	20.0	3 2	8 9.17	+ 6 7.5	2.554	3.370	11.0	20.9
<b>122266</b>	2000 <i>OR</i> <sub>53</sub>		1 26.5 208°72	4°1°/28.9	18		<b>14999</b>	1997 <i>VX</i> <sub>8</sub>		1 26.5 90°08	6°4°/22.5	18	
12 23	8 58.47	+ 5 24.1	2.495	3.256	12.6	20.9	12 23	9 3.06	+32 54.5	1.847	2.672	13.9	16.9
1 2	8 52.81	+ 4 59.9	2.397	3.249	10.1	20.7	1 2	8 57.00	+34 24.9	1.798	2.692	10.7	16.7
1 12	8 45.33	+ 4 47.8	2.323	3.242	7.3	20.5	1 12	8 48.19	+35 50.7	1.774	2.711	7.8	16.6
1 22	8 36.57	+ 4 47.9	2.278	3.234	4.8	20.3	1 22	8 37.51	+37 2.7	1.777	2.730	6.4	16.5
2 1	8 27.27	+ 4 59.4	2.262	3.226	4.3	20.3	2 1	8 26.28	+37 53.5	1.808	2.749	7.5	16.6
2 11	8 18.31	+ 5 20.0	2.276	3.217	6.3	20.4	2 11	8 15.97	+38 19.7	1.867	2.767	10.2	16.8
2 21	8 10.49	+ 5 46.7	2.319	3.207	9.1	20.6	2 21	8 7.75	+38 22.5	1.950	2.786	13.0	17.0
3 2	8 4.45	+ 6 16.3	2.388	3.197	11.9	20.7	3 2	8 2.41	+38 5.6	2.053	2.803	15.5	17.3
<b>416967</b>	2005 <i>SU</i> <sub>292</sub>		1 26.5 202°00	2°6°/24.8	16		<b>92764</b>	2000 <i>QE</i> <sub>125</sub>		1 26.5 19°31	6°7°/29.6	18	
12 23	9 0.03	+24 38.7	2.259	3.076	12.0								

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>448120</b>	2008 <i>RF</i> <sub>80</sub>		1 26.5	80°85'	7.3°/21.9	18	<b>223478</b>	2003 <i>WT</i> <sub>139</sub>		1 26.5	60°62'	4.3°/28.2	17
12 23	9 9.92	+30 28.1	1.527	2.351	16.3	20.8	12 23	9 2.16	+9 44.6	1.164	1.985	20.5	20.3
1 2	9 2.48	+33 0.2	1.496	2.391	12.4	20.6	1 2	8 56.91	+9 19.9	1.110	2.002	15.9	20.1
1 12	8 51.67	+35 27.4	1.492	2.430	8.8	20.5	1 12	8 48.37	+9 14.8	1.075	2.019	10.7	19.9
1 22	8 38.63	+37 35.3	1.516	2.469	7.3	20.5	1 22	8 37.62	+9 28.3	1.063	2.036	5.7	19.6
2 1	8 25.02	+39 12.6	1.568	2.506	8.8	20.7	2 1	8 26.28	+9 56.2	1.076	2.053	4.9	19.6
2 11	8 12.69	+40 15.1	1.649	2.542	11.7	20.9	2 11	8 16.12	+10 32.4	1.115	2.071	9.2	19.9
2 21	8 3.08	+40 45.1	1.753	2.578	14.7	21.2	2 21	8 8.54	+11 10.7	1.177	2.088	14.0	20.3
3 2	7 57.01	+40 48.9	1.876	2.612	17.2	21.5	3 2	8 4.37	+11 46.0	1.259	2.106	18.2	20.6
<b>115848</b>	2003 <i>UL</i> <sub>266</sub>		1 26.5	270°85'	0°5/26.8	18	<b>81710</b>	2000 <i>JO</i> <sub>24</sub>		1 26.5	160°03'	6°2/22.7	18
12 23	8 59.13	+15 55.7	1.702	2.519	15.2	19.9	12 23	9 5.04	+36 10.8	2.237	3.047	12.3	20.0
1 2	8 54.27	+16 13.0	1.608	2.504	11.6	19.6	1 2	8 58.20	+37 10.7	2.171	3.053	9.7	19.8
1 12	8 46.72	+16 41.5	1.538	2.489	7.3	19.3	1 12	8 48.82	+38 4.0	2.131	3.058	7.3	19.7
1 22	8 37.14	+17 17.6	1.493	2.474	2.5	19.0	1 22	8 37.73	+38 43.5	2.118	3.063	6.2	19.6
2 1	8 26.64	+17 56.4	1.477	2.458	2.7	19.0	2 1	8 26.10	+39 3.6	2.134	3.068	7.1	19.7
2 11	8 16.60	+18 32.8	1.489	2.443	7.7	19.3	2 11	8 15.23	+39 2.2	2.179	3.072	9.3	19.8
2 21	8 8.28	+19 2.8	1.528	2.427	12.3	19.5	2 21	8 6.23	+38 40.8	2.249	3.075	11.9	20.0
3 2	8 2.65	+19 24.3	1.588	2.411	16.2	19.7	3 2	7 59.85	+38 3.0	2.341	3.078	14.2	20.2
<b>237800</b>	2002 <i>CS</i> <sub>9</sub>		1 26.5	133°14'	0°4/26.3	18	<b>357016</b>	1999 <i>VR</i> <sub>130</sub>		1 26.5	186°12'	3°7/24.4	18
12 23	9 1.52	+8 17.2	1.099	1.922	21.4	20.0	12 23	9 2.34	+26 39.1	1.948	2.769	13.4	21.6
1 2	8 57.22	+10 50.6	1.027	1.926	16.3	19.7	1 2	8 56.37	+27 31.2	1.871	2.769	10.1	21.4
1 12	8 49.14	+14 4.9	0.976	1.929	10.1	19.3	1 12	8 47.82	+28 24.8	1.819	2.769	6.5	21.2
1 22	8 38.04	+17 47.4	0.952	1.933	3.2	18.9	1 22	8 37.45	+29 13.1	1.795	2.768	3.8	21.0
2 1	8 25.51	+21 35.7	0.956	1.936	4.1	19.0	2 1	8 26.40	+29 49.8	1.800	2.766	5.0	21.1
2 11	8 13.67	+25 5.6	0.988	1.939	11.0	19.4	2 11	8 16.00	+30 11.0	1.834	2.764	8.4	21.3
2 21	8 4.47	+28 0.9	1.046	1.942	16.9	19.7	2 21	8 7.39	+30 15.8	1.894	2.762	11.9	21.5
3 2	7 59.25	+30 15.7	1.124	1.944	21.7	20.1	3 2	8 1.40	+30 5.9	1.977	2.759	15.0	21.7
<b>370609</b>	2003 <i>WE</i> <sub>189</sub>		1 26.5	55°91'	7°1/1.1	18	<b>265675</b>	2005 <i>UZ</i> <sub>57</sub>		1 26.5	93°12'	0°3/26.3	18
12 23	8 55.38	-4 0.0	1.904	2.643	16.6	20.4	12 23	9 0.33	+18 6.8	1.984	2.796	13.6	21.1
1 2	8 50.72	-4 1.2	1.846	2.671	13.8	20.3	1 2	8 54.43	+18 30.9	1.923	2.817	10.1	20.9
1 12	8 44.08	-3 37.8	1.809	2.699	10.9	20.1	1 12	8 46.37	+19 1.8	1.886	2.838	6.1	20.7
1 22	8 36.18	-2 49.9	1.795	2.726	8.2	20.0	1 22	8 36.93	+19 35.3	1.878	2.859	1.9	20.5
2 1	8 27.94	-1 40.3	1.809	2.754	7.1	20.0	2 1	8 27.11	+20 7.1	1.899	2.879	2.4	20.6
2 11	8 20.36	-0 15.1	1.850	2.782	8.2	20.1	2 11	8 18.03	+20 33.5	1.950	2.899	6.5	20.9
2 21	8 14.29	+1 18.3	1.918	2.810	10.5	20.3	2 21	8 10.61	+20 52.4	2.028	2.919	10.1	21.1
3 2	8 10.31	+2 52.6	2.010	2.838	13.1	20.5	3 2	8 5.48	+21 3.1	2.130	2.938	13.2	21.4
<b>371897</b>	2008 <i>CF</i> <sub>133</sub>		1 26.5	234°30'	3°1/24.8	17	<b>210352</b>	2007 <i>UG</i> <sub>11</sub>		1 26.5	53°08'	1°9/25.1	18
12 23	9 3.63	+27 25.4	2.241	3.054	12.2	21.9	12 23	8 56.35	+20 36.1	1.977	2.801	13.1	19.9
1 2	8 57.10	+27 51.2	2.147	3.040	9.2	21.7	1 2	8 51.59	+21 44.5	1.921	2.823	9.7	19.7
1 12	8 48.18	+28 16.5	2.078	3.026	6.0	21.5	1 12	8 44.71	+22 59.0	1.890	2.845	5.9	19.5
1 22	8 37.55	+28 36.1	2.037	3.011	3.3	21.3	1 22	8 36.42	+24 13.3	1.888	2.867	2.3	19.3
2 1	8 26.21	+28 45.4	2.027	2.995	4.3	21.3	2 1	8 27.70	+25 21.1	1.915	2.890	3.5	19.4
2 11	8 15.39	+28 41.7	2.047	2.979	7.6	21.5	2 11	8 19.66	+26 17.4	1.971	2.913	7.1	19.7
2 21	8 6.13	+28 24.9	2.095	2.962	10.9	21.6	2 21	8 13.19	+26 59.6	2.054	2.935	10.5	20.0
3 2	7 59.26	+27 56.7	2.166	2.944	14.0	21.8	3 2	8 8.94	+27 27.3	2.160	2.958	13.4	20.2
<b>334148</b>	2001 <i>RM</i> <sub>125</sub>		1 26.5	74°47'	2°6/24.9	18	<b>322616</b>	1995 <i>GW</i> <sub>6</sub>		1 26.5	181°78'	2°7/24.8	18
12 23	8 58.31	+25 0.4	2.224	3.044	12.0	20.8	12 23	8 59.87	+24 25.6	2.094	2.914	12.6	21.3
1 2	8 52.84	+25 39.2	2.164	3.062	8.9	20.6	1 2	8 54.32	+25 13.4	2.016	2.915	9.4	21.1
1 12	8 45.36	+26 19.2	2.129	3.081	5.5	20.4	1 12	8 46.47	+26 4.2	1.964	2.915	5.9	20.9
1 22	8 36.59	+26 55.5	2.123	3.099	2.8	20.3	1 22	8 37.01	+26 52.3	1.939	2.915	3.0	20.7
2 1	8 27.46	+27 23.7	2.146	3.117	3.7	20.4	2 1	8 26.95	+27 32.3	1.944	2.915	4.0	20.7
2 11	8 18.99	+27 41.0	2.199	3.135	6.8	20.6	2 11	8 17.44	+28 0.1	1.978	2.914	7.5	20.9
2 21	8 12.04	+27 46.7	2.279	3.153	9.9	20.8	2 21	8 9.52	+28 14.3	2.039	2.913	10.9	21.2
3 2	8 7.21	+27 41.4	2.383	3.171	12.5	21.0	3 2	8 3.92	+28 15.4	2.124	2.911	13.9	21.4
<b>48838</b>	1998 <i>AF</i> <sub>10</sub>		1 26.5	350°53'	9°4/29.8	18	<b>187838</b>	1999 <i>VT</i> <sub>165</sub>		1 26.5	168°34'	2°9/27.9	18
12 23	8 52.25	+1 5.1	1.417	2.209	18.9	17.9	12 23	9 3.18	+10 8.0	1.844	2.632	15.3	21.0
1 2	8 49.34	-0 26.2	1.335	2.195	16.0	17.7	1 2	8 56.84	+10 2.0	1.763	2.638	11.9	20.8
1 12	8 43.76	-1 38.0	1.273	2.183	12.8	17.5	1 12	8 48.04	+10 9.4	1.705	2.643	8.0	20.5
1 22	8 36.21	-2 25.1	1.232	2.172	10.2	17.3	1 22	8 37.51	+10 28.6	1.674	2.647	4.1	20.3
2 1	8 27.80	-2 44.5	1.216	2.164	9.5	17.2	2 1	8 26.35	+10 56.6	1.673	2.650	3.5	20.3
2 11	8 19.92	-2 37.2	1.223	2.157	11.2	17.3	2 11	8 15.82	+11 29.3	1.701	2.652	7.2	20.5
2 21	8 13.83	-2 8.3	1.252	2.151	14.4	17.5	2 21	8 7.00	+12 2.7	1.757	2.653	11.1	20.7
3 2	8 10.47	-1 25.0	1.301	2.148	17.7	17.7	3 2	8 0.70	+12 33.6	1.837	2.653	14.6	21.0
<b>170197</b>	2003 <i>OW</i> <sub>9</sub>		1 26.5	189°82'	2°3/27.8	18	<b>160088</b>	2000 <i>NG</i> <sub>27</sub>		1 26.5	211°50'	0°8/26.1	18
12 23	8 59.72	+10 52.2	1.912	2.707	14.6	21.4	12 23	9 1.19	+18 6.4	2.025	2.834	13.4	20.9
1 2	8 54.25	+11 2.7	1.826	2.707	11.3	21.2	1 2	8 55.42	+18 50.8	1.934	2.827	10.1	20.6
1 12	8 46.46	+11 26.8	1.764	2.705	7.4	20.9	1 12	8 47.24	+19 44.3	1.867	2.818	6.2	20.4
1 22	8 37.01	+12 2.2	1.729	2.704	3.5	20.7	1 22	8 37.30	+20 42.0	1.828	2.809	2.0	20.1
2 1	8 26.89	+12 45.2	1.723	2.701	3.0	20.6	2 1	8 26.57	+21 38.2	1.820	2.799	2.8	20.1
2 11	8 17.28	+13 31.0	1.746	2.698	6.8	20.9	2 11	8 16.27	+22 27.6	1.842	2.788	7.1	20.4
2 21	8 9.23	+14 15.4	1.797	2.695	10.8	21.1	2 21	8 7.49	+23 6.8	1.892	2.777	11.0	20.6
3 2	8 3.52	+14 54.8	1.871	2.691	14.3	21.3	3 2	8 1.09	+23 34.4	1.965	2.764	14.5	20.8
<b>416957</b>	2005 <i>SG</i> <sub>202</sub>		1 26.5	121°64'	0°4/26.3	18	<b>156015</b>	2001 <i>RX</i> <sub>81</sub>		1 26.5	79°31'	5°2/24.2	18
12 23	8 59.80	+18 22.4	2.064	2.875	13.1	21.7	12 23	9					

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>429925</b>	2012 <i>TD</i> <sub>228</sub>		1 26.5 242°59	3°6/29.1	18		<b>231825</b>	2000 <i>JW</i> <sub>75</sub>		1 26.5 263°27	2°0/27.6	18	
12 23	8 53.85	+ 5 48.2	2.444	3.218	12.4	21.2	12 23	8 59.38	+11 38.6	1.653	2.461	16.0	20.5
1 2	8 49.42	+ 5 47.7	2.354	3.215	9.9	21.0	1 2	8 54.61	+11 58.5	1.554	2.442	12.4	20.2
1 12	8 43.29	+ 6 0.7	2.288	3.213	7.0	20.9	1 12	8 47.06	+12 34.8	1.476	2.422	8.1	19.9
1 22	8 35.98	+ 6 26.6	2.248	3.210	4.4	20.7	1 22	8 37.35	+13 25.0	1.425	2.402	3.5	19.6
2 1	8 28.21	+ 7 3.2	2.238	3.208	3.7	20.6	2 1	8 26.56	+14 24.4	1.401	2.382	3.1	19.5
2 11	8 20.79	+ 7 47.3	2.258	3.206	5.9	20.8	2 11	8 16.10	+15 26.4	1.406	2.361	7.9	19.8
2 21	8 14.47	+ 8 35.0	2.306	3.203	8.8	20.9	2 21	8 7.33	+16 25.1	1.437	2.339	12.7	20.0
3 2	8 9.85	+ 9 22.6	2.379	3.200	11.5	21.1	3 2	8 1.29	+17 16.0	1.491	2.318	16.9	20.2
<b>211533</b>	2003 <i>QH</i> <sub>108</sub>		1 26.5 151°50	2°9/28.4	18		<b>260744</b>	2005 <i>LQ</i> <sub>53</sub>		1 26.5 92°57	3°6/24.0	18	
12 23	8 58.89	+ 7 51.4	1.919	2.705	14.9	20.9	12 23	9 2.61	+25 5.6	1.989	2.807	13.3	20.7
1 2	8 53.57	+ 8 17.3	1.840	2.713	11.6	20.7	1 2	8 56.29	+26 33.7	1.940	2.837	9.8	20.5
1 12	8 46.00	+ 9 0.1	1.784	2.720	7.8	20.5	1 12	8 47.60	+28 3.5	1.917	2.867	6.3	20.4
1 22	8 36.88	+ 9 57.3	1.755	2.726	4.1	20.3	1 22	8 37.38	+29 27.4	1.923	2.895	3.7	20.3
2 1	8 27.16	+11 4.3	1.755	2.732	3.3	20.2	2 1	8 26.72	+30 38.0	1.960	2.923	4.9	20.4
2 11	8 17.99	+12 15.3	1.785	2.737	6.7	20.5	2 11	8 16.85	+31 30.8	2.026	2.951	8.1	20.6
2 21	8 10.36	+13 24.6	1.843	2.742	10.5	20.7	2 21	8 8.79	+32 4.9	2.119	2.977	11.2	20.9
3 2	8 5.00	+14 27.7	1.925	2.747	13.9	20.9	3 2	8 3.21	+32 21.7	2.234	3.003	13.9	21.1
<b>27616</b>	2001 <i>KY</i> <sub>42</sub>		1 26.5 131°59	5°9/30.6	18		<b>467123</b>	2016 <i>EC</i> <sub>74</sub>		1 26.5 332°98	1°3/27.4	17	
12 23	8 58.18	- 0 33.4	2.216	2.957	14.5	19.3	12 23	8 52.67	+10 35.5	1.487	2.310	16.7	20.3
1 2	8 52.67	- 0 46.5	2.140	2.972	12.0	19.1	1 2	8 49.74	+11 36.4	1.398	2.295	12.9	20.0
1 12	8 45.27	- 0 40.9	2.087	2.986	9.2	19.0	1 12	8 44.11	+13 0.4	1.331	2.281	8.3	19.7
1 22	8 36.60	- 0 16.3	2.060	3.000	6.7	18.9	1 22	8 36.41	+14 43.0	1.289	2.269	3.3	19.4
2 1	8 27.51	+ 0 25.6	2.061	3.013	5.9	18.8	2 1	8 27.73	+16 36.1	1.275	2.256	2.9	19.3
2 11	8 18.94	+ 1 20.8	2.092	3.025	7.3	18.9	2 11	8 19.48	+18 29.1	1.288	2.245	8.1	19.6
2 21	8 11.69	+ 2 24.2	2.150	3.037	9.8	19.1	2 21	8 12.97	+20 12.7	1.326	2.235	13.0	19.8
3 2	8 6.39	+ 3 30.5	2.233	3.048	12.4	19.3	3 2	8 9.23	+21 40.5	1.386	2.225	17.3	20.1
<b>47518</b>	2000 <i>AU</i> <sub>71</sub>		1 26.5 141°55	1°1/25.9	18		<b>85183</b>	Marcelaymé		1 26.6 66°80	3°2/27.3	17	
12 23	9 3.21	+18 28.6	1.672	2.489	15.4	19.6	12 23	9 14.72	+15 25.2	1.371	2.174	18.9	18.2
1 2	8 57.13	+19 15.9	1.604	2.501	11.5	19.4	1 2	9 5.47	+14 4.1	1.322	2.207	14.4	18.0
1 12	8 48.33	+20 12.6	1.558	2.511	7.0	19.2	1 12	8 53.17	+12 50.8	1.296	2.239	9.3	17.8
1 22	8 37.64	+21 12.5	1.540	2.521	2.3	18.9	1 22	8 39.08	+11 46.0	1.296	2.272	4.4	17.6
2 1	8 26.29	+22 8.7	1.551	2.530	3.2	19.0	2 1	8 24.89	+10 50.6	1.327	2.303	4.2	17.7
2 11	8 15.72	+22 55.4	1.592	2.539	7.9	19.3	2 11	8 12.30	+10 4.7	1.386	2.335	8.6	18.0
2 21	8 7.14	+23 29.5	1.658	2.547	12.1	19.6	2 21	8 2.50	+ 9 27.5	1.472	2.366	12.9	18.4
3 2	8 1.37	+23 50.6	1.747	2.554	15.7	19.8	3 2	7 56.14	+ 8 57.4	1.580	2.397	16.6	18.7
<b>167040</b>	2003 <i>QQ</i> <sub>50</sub>		1 26.5 214°49	3°6/24.5	18		<b>95322</b>	2002 <i>CE</i> <sub>108</sub>		1 26.6 316°72	6°1/23.6	18	
12 23	9 3.94	+27 15.5	2.097	2.912	12.8	21.7	12 23	9 3.27	+34 2.4	1.850	2.674	13.9	19.5
1 2	8 57.51	+28 1.4	2.009	2.904	9.7	21.5	1 2	8 57.34	+34 44.2	1.775	2.668	10.9	19.3
1 12	8 48.53	+28 48.1	1.946	2.894	6.3	21.2	1 12	8 48.53	+35 20.2	1.725	2.663	7.9	19.1
1 22	8 37.72	+29 29.3	1.912	2.884	3.8	21.1	1 22	8 37.75	+35 42.9	1.701	2.659	6.1	19.0
2 1	8 26.14	+29 59.2	1.908	2.873	4.8	21.1	2 1	8 26.28	+35 46.3	1.705	2.654	7.1	19.0
2 11	8 15.10	+30 14.0	1.934	2.862	8.2	21.3	2 11	8 15.65	+35 28.0	1.736	2.650	10.1	19.2
2 21	8 5.74	+30 13.0	1.986	2.849	11.6	21.5	2 21	8 7.12	+34 49.9	1.791	2.645	13.1	19.3
3 2	7 58.93	+29 58.0	2.061	2.836	14.7	21.7	3 2	8 1.53	+33 56.1	1.869	2.641	16.1	19.5
<b>119459</b>	2001 <i>TV</i> <sub>192</sub>		1 26.5 13°03	10°1/30.3	18		<b>368418</b>	2002 <i>TP</i> <sub>264</sub>		1 26.6 17°23	8°9/22.8	18	
12 23	8 59.97	- 3 24.9	1.746	2.487	17.9	18.9	12 23	9 1.48	+38 47.4	1.477	2.313	16.1	19.4
1 2	8 54.59	- 5 8.8	1.669	2.488	15.3	18.7	1 2	8 56.48	+39 45.2	1.431	2.323	13.0	19.3
1 12	8 46.75	- 6 32.9	1.612	2.489	12.7	18.6	1 12	8 48.13	+40 30.8	1.406	2.335	10.2	19.1
1 22	8 37.15	- 7 32.1	1.579	2.491	10.7	18.4	1 22	8 37.59	+40 54.5	1.405	2.348	8.9	19.1
2 1	8 26.85	- 8 3.1	1.572	2.493	10.1	18.4	2 1	8 26.57	+40 50.0	1.429	2.362	9.9	19.2
2 11	8 17.12	- 8 6.6	1.590	2.496	11.3	18.5	2 11	8 16.88	+40 16.4	1.477	2.377	12.4	19.4
2 21	8 9.04	- 7 46.8	1.633	2.499	13.6	18.6	2 21	8 9.86	+39 18.3	1.547	2.394	15.3	19.6
3 2	8 3.45	- 7 10.5	1.696	2.502	16.1	18.8	3 2	8 6.26	+38 2.1	1.637	2.411	17.9	19.8
<b>154090</b>	2002 <i>CE</i> <sub>284</sub>		1 26.5 136°35	0°1/26.5	18		<b>26791</b>	5282 <i>T</i> <sub>-3</sub>		1 26.6 25°78	9°3/20.9	18	
12 23	8 58.75	+17 35.8	2.093	2.904	13.0	20.6	12 23	9 0.37	+35 35.7	1.393	2.237	16.5	17.9
1 2	8 53.32	+17 54.0	2.016	2.910	9.7	20.4	1 2	8 56.05	+37 35.2	1.344	2.243	13.1	17.7
1 12	8 45.78	+18 19.2	1.964	2.916	6.0	20.2	1 12	8 48.16	+39 28.2	1.318	2.251	10.3	17.5
1 22	8 36.80	+18 48.0	1.940	2.921	1.9	19.9	1 22	8 37.70	+41 1.3	1.316	2.259	9.3	17.5
2 1	8 27.33	+19 16.5	1.946	2.927	2.3	19.9	2 1	8 26.34	+42 3.3	1.339	2.268	10.7	17.6
2 11	8 18.43	+19 41.0	1.981	2.932	6.3	20.2	2 11	8 16.07	+42 29.9	1.386	2.278	13.6	17.8
2 21	8 11.03	+19 59.4	2.044	2.937	10.0	20.4	2 21	8 8.49	+42 23.5	1.454	2.288	16.7	18.0
3 2	8 5.79	+20 10.6	2.131	2.941	13.1	20.7	3 2	8 4.58	+41 50.2	1.539	2.299	19.5	18.2
<b>160899</b>	2001 <i>SG</i> <sub>287</sub>		1 26.5 41°82	2°5/28.0	18		<b>317082</b>	2001 <i>SQ</i> <sub>294</sub>		1 26.6 205°03	5°3/30.3	18	
12 23	8 57.50	+ 9 8.4	1.323	2.141	18.7	18.9	12 23	8 56.69	+ 0 28.2	2.259	3.007	14.1	21.8
1 2	8 52.98	+ 9 49.5	1.280	2.172	14.2	18.7	1 2	8 51.72	+ 0 27.7	2.164	3.002	11.6	21.6
1 12	8 45.74	+10 51.3	1.258	2.204	9.2	18.5	1 12	8 44.83	+ 0 45.8	2.092	2.997	8.8	21.4
1 22	8 36.78	+12 8.4	1.260	2.236	4.2	18.3	1 22	8 36.55	+ 1 22.6	2.046	2.992	6.3	21.2
2 1	8 27.45	+13 32.6	1.289	2.269	3.3	18.4	2 1	8 27.68	+ 2 16.4	2.028	2.986	5.4	21.2
2 11	8 19.19	+14 55.2	1.345	2.303	7.8	18.7	2 11	8 19.16	+ 3 23.0	2.040	2.979	7.0	21.2
2 21	8 13.09	+16 9.4	1.427	2.337	12.2	19.0	2 21	8 11.84	+ 4 37.0	2.080	2.972	9.8	21.4
3 2	8 9.84	+17 10.8	1.530	2.371	15.8	19.4	3 2	8 6.42	+ 5 52.8	2.145	2.964	12.7	21.6
<b>195176</b>	2002 <i>CT</i> <sub>248</sub>		1 26.5 63°23	2°1/27.5	17		<b>96038</b>	2004 <i>PY</i> <sub>67</sub>		1 26.6 125°58	4°0/29.5	18	
12 23	9 3.15												

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>272569</b>	2005 UN <sub>511</sub>		1 26.6	65°23	0°2/26.5	18	<b>359076</b>	2008 YF <sub>141</sub>		1 26.6	233°62	1°0/27.2	18
12 23	8 58.64	+17 46.6	1.797	2.617	14.4	21.5	12 23	8 58.52	+13 1.0	1.723	2.534	15.3	21.1
1 2	8 53.53	+18 5.4	1.728	2.625	10.8	21.3	1 2	8 53.74	+13 37.8	1.636	2.527	11.7	20.9
1 12	8 46.03	+18 32.2	1.681	2.634	6.6	21.0	1 12	8 46.40	+14 29.9	1.572	2.521	7.5	20.6
1 22	8 36.93	+19 3.0	1.662	2.643	2.1	20.8	1 22	8 37.15	+15 33.2	1.534	2.514	2.8	20.3
2 1	8 27.30	+19 33.3	1.671	2.652	2.6	20.8	2 1	8 27.07	+16 41.9	1.525	2.507	2.6	20.3
2 11	8 18.37	+19 58.9	1.709	2.661	7.0	21.1	2 11	8 17.47	+17 49.3	1.545	2.499	7.4	20.6
2 21	8 11.17	+20 17.2	1.773	2.670	11.0	21.4	2 21	8 9.55	+18 49.7	1.592	2.491	11.8	20.8
3 2	8 6.43	+20 27.3	1.861	2.679	14.4	21.6	3 2	8 4.20	+19 39.7	1.661	2.483	15.7	21.0
<b>89233</b>	2001 UT <sub>146</sub>		1 26.6	227°95	2°3/27.9	18	<b>30441</b>	Curly		1 26.6	146°53	2°0/25.0	18
12 23	8 57.70	+10 37.2	2.154	2.945	13.3	20.4	12 23	8 56.84	+23 46.0	2.729	3.541	10.2	19.5
1 2	8 52.61	+10 43.9	2.059	2.937	10.3	20.2	1 2	8 51.55	+24 27.2	2.654	3.549	7.6	19.3
1 12	8 45.43	+11 2.7	1.988	2.928	6.9	19.9	1 12	8 44.57	+25 10.6	2.605	3.556	4.7	19.1
1 22	8 36.76	+11 32.1	1.944	2.918	3.4	19.7	1 22	8 36.46	+25 52.1	2.586	3.563	2.2	19.0
2 1	8 27.44	+12 8.9	1.930	2.909	2.9	19.6	2 1	8 27.95	+26 28.0	2.597	3.569	3.0	19.0
2 11	8 18.51	+12 49.4	1.946	2.898	6.3	19.8	2 11	8 19.87	+26 55.3	2.639	3.575	5.8	19.2
2 21	8 10.89	+13 29.6	1.990	2.888	9.9	20.0	2 21	8 12.95	+27 12.8	2.710	3.581	8.6	19.4
3 2	8 5.31	+14 6.4	2.058	2.877	13.2	20.2	3 2	8 7.77	+27 20.4	2.805	3.587	11.0	19.6
<b>126321</b>	2002 AX <sub>140</sub>		1 26.6	285°90	1°3/27.2	18	<b>87807</b>	2000 SZ <sub>141</sub>		1 26.6	55°42	3°2/28.3	18
12 23	8 58.80	+14 4.4	1.520	2.341	16.5	19.9	12 23	8 57.05	+ 9 24.1	1.840	2.638	15.0	19.6
1 2	8 54.37	+14 16.0	1.427	2.324	12.7	19.7	1 2	8 52.29	+ 9 18.6	1.764	2.643	11.7	19.4
1 12	8 47.00	+14 41.6	1.356	2.306	8.2	19.3	1 12	8 45.28	+ 9 27.3	1.709	2.648	7.9	19.1
1 22	8 37.38	+15 18.5	1.310	2.289	3.1	19.0	1 22	8 36.73	+ 9 48.9	1.681	2.653	4.3	18.9
2 1	8 26.68	+16 1.6	1.290	2.272	3.0	18.9	2 1	8 27.62	+10 20.4	1.682	2.658	3.6	18.9
2 11	8 16.44	+16 45.0	1.299	2.254	8.2	19.2	2 11	8 19.10	+10 57.7	1.710	2.663	6.9	19.1
2 21	8 8.06	+17 23.7	1.332	2.237	13.2	19.4	2 21	8 12.14	+11 36.4	1.766	2.669	10.7	19.3
3 2	8 2.63	+17 54.4	1.386	2.220	17.6	19.7	3 2	8 7.47	+12 12.6	1.844	2.674	14.0	19.6
<b>221225</b>	2005 UN <sub>132</sub>		1 26.6	62°15	6°6/30.9	18	<b>346181</b>	2007 WP <sub>33</sub>		1 26.6	157°50	5°0/30.1	18
12 23	8 55.69	- 0 48.0	1.784	2.545	16.8	20.1	12 23	8 55.96	+ 0 40.5	2.823	3.559	11.8	21.5
1 2	8 51.24	- 0 55.9	1.716	2.559	13.9	19.9	1 2	8 50.74	+ 0 7.4	2.736	3.565	9.7	21.4
1 12	8 44.60	- 0 40.3	1.667	2.573	10.6	19.7	1 12	8 44.01	- 0 12.6	2.673	3.569	7.5	21.2
1 22	8 36.49	- 0 1.1	1.643	2.587	7.7	19.6	1 22	8 36.28	- 0 18.8	2.638	3.574	5.7	21.1
2 1	8 27.88	+ 0 59.2	1.646	2.602	6.6	19.6	2 1	8 28.17	- 0 11.6	2.631	3.578	5.1	21.1
2 11	8 19.89	+ 1 24.9	1.676	2.616	8.2	19.7	2 11	8 20.41	+ 0 7.2	2.655	3.582	6.3	21.2
2 21	8 13.46	+ 3 38.7	1.732	2.631	11.1	19.9	2 21	8 13.64	+ 0 34.8	2.707	3.586	8.3	21.3
3 2	8 9.30	+ 5 3.5	1.813	2.646	14.1	20.1	3 2	8 8.38	+ 1 7.7	2.784	3.589	10.5	21.5
<b>305585</b>	2008 YP <sub>50</sub>		1 26.6	7°54	2°5/25.5	18	<b>423418</b>	2005 NQ <sub>125</sub>		1 26.6	185°88	1°9/27.7	17
12 23	8 58.82	+22 3.7	1.237	2.085	17.9	20.2	12 23	8 58.61	+11 56.0	2.066	2.863	13.6	22.2
1 2	8 54.73	+22 36.3	1.172	2.085	13.4	19.9	1 2	8 53.30	+12 4.2	1.981	2.863	10.5	22.0
1 12	8 47.28	+23 16.2	1.128	2.087	8.3	19.6	1 12	8 45.86	+12 24.0	1.920	2.862	6.8	21.8
1 22	8 37.44	+23 56.1	1.108	2.088	3.2	19.3	1 22	8 36.93	+12 53.1	1.886	2.862	3.1	21.6
2 1	8 26.74	+24 28.2	1.114	2.091	4.5	19.4	2 1	8 27.40	+13 28.1	1.881	2.860	2.7	21.5
2 11	8 17.04	+24 47.0	1.144	2.095	9.8	19.7	2 11	8 18.37	+14 5.2	1.906	2.859	6.3	21.8
2 21	8 9.83	+24 50.4	1.197	2.099	14.7	20.0	2 21	8 10.76	+14 40.6	1.959	2.857	10.1	22.0
3 2	8 6.07	+24 39.5	1.271	2.105	18.8	20.3	3 2	8 5.29	+15 11.7	2.037	2.855	13.3	22.2
<b>204215</b>	2004 CA <sub>67</sub>		1 26.6	195°45	2°5/24.7	18	<b>95452</b>	2002 CO <sub>280</sub>		1 26.6	281°47	3°0/27.9	18
12 23	8 56.40	+23 52.8	2.347	3.167	11.4	20.6	12 23	8 58.92	+11 8.6	1.978	2.774	14.2	19.5
1 2	8 51.56	+24 47.8	2.267	3.166	8.5	20.4	1 2	8 53.66	+10 39.3	1.885	2.764	11.1	19.3
1 12	8 44.74	+25 46.3	2.214	3.166	5.3	20.2	1 12	8 46.15	+10 20.1	1.816	2.755	7.5	19.0
1 22	8 36.54	+26 43.2	2.189	3.165	2.7	20.0	1 22	8 37.04	+10 10.6	1.774	2.746	4.0	18.8
2 1	8 27.79	+27 33.4	2.194	3.164	3.7	20.1	2 1	8 27.26	+10 9.4	1.761	2.737	3.5	18.8
2 11	8 19.48	+28 12.7	2.229	3.163	6.8	20.3	2 11	8 17.94	+10 14.3	1.777	2.728	6.9	18.9
2 21	8 12.48	+28 39.5	2.291	3.162	9.9	20.4	2 21	8 10.10	+10 22.7	1.820	2.719	10.6	19.1
3 2	8 7.48	+28 53.4	2.376	3.161	12.7	20.6	3 2	8 4.50	+10 31.9	1.887	2.710	14.0	19.3
<b>387717</b>	2003 DN <sub>4</sub>		1 26.6	191°00	21°5/ 6.6	15	<b>75909</b>	2000 CG <sub>53</sub>		1 26.6	31°28	3°9/25.3	18
12 23	9 29.05	-27 9.3	1.085	1.685	33.5	22.0	12 23	9 5.30	+28 14.5	1.419	2.254	16.7	18.6
1 2	9 19.26	-27 37.5	0.995	1.690	31.1	21.8	1 2	8 59.13	+28 19.5	1.357	2.262	12.6	18.4
1 12	9 3.73	-27 3.1	0.913	1.691	28.0	21.5	1 12	8 49.71	+28 21.3	1.318	2.270	8.1	18.1
1 22	8 43.11	-25 1.6	0.844	1.687	24.6	21.2	1 22	8 38.15	+28 13.7	1.303	2.279	4.3	17.9
2 1	8 19.59	-21 14.9	0.797	1.678	22.0	21.0	2 1	8 26.06	+27 51.8	1.316	2.288	5.3	18.0
2 11	7 56.60	-15 48.6	0.775	1.663	21.8	20.9	2 11	8 15.19	+27 14.6	1.355	2.298	9.5	18.3
2 21	7 37.35	- 9 18.0	0.782	1.644	24.7	21.0	2 21	8 6.90	+26 24.5	1.419	2.308	13.8	18.6
3 2	7 23.87	- 2 32.9	0.816	1.620	29.2	21.2	3 2	8 1.98	+25 25.4	1.505	2.319	17.4	18.8
<b>250194</b>	2002 UZ <sub>20</sub>		1 26.6	115°04	7°8/21.8	18	<b>320774</b>	2008 EH <sub>118</sub>		1 26.6	213°48	1°5/27.5	18
12 23	9 8.31	+39 45.1	2.047	2.853	13.4	21.6	12 23	8 58.23	+12 35.9	2.032	2.832	13.7	21.8
1 2	9 0.88	+41 4.5	2.000	2.873	10.8	21.5	1 2	8 53.12	+12 53.3	1.942	2.827	10.5	21.6
1 12	8 50.58	+42 13.3	1.978	2.892	8.7	21.4	1 12	8 45.81	+13 22.5	1.877	2.822	6.8	21.3
1 22	8 38.38	+43 2.8	1.983	2.910	7.8	21.4	1 22	8 36.94	+14 1.1	1.839	2.816	2.8	21.1
2 1	8 25.69	+43 26.8	2.015	2.928	8.7	21.4	2 1	8 27.40	+14 45.0	1.830	2.811	2.5	21.0
2 11	8 14.05	+43 24.0	2.075	2.946	10.8	21.6	2 11	8 18.31	+15 29.8	1.852	2.804	6.4	21.3
2 21	8 4.68	+42 57.4	2.158	2.963	13.1	21.8	2 21	8 10.65	+16 11.4	1.900	2.798	10.3	21.5
3 2	7 58.34	+42 12.0	2.263	2.979	15.2	22.0	3 2	8 5.17	+16 47.2	1.973	2.791	13.7	21.7
<b>457324</b>	2008 SO <sub>138</sub>		1 26.6	92°27	0°6/26.9	17	<b>149494</b>	2003 ET <sub>49</sub>		1 26.6	32°64	11°4/21.6	18
12 23	9 2.62	+15 1.1	1.536	2.352									

EPHEMERIDES

1 26.6

1 26.6

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>44705</b>	1999 <i>SL</i> <sub>11</sub>		1 26.6 344°95	4.2/24.4	18		<b>191590</b>	2004 <i>FN</i> <sub>29</sub>		1 26.6 273°10	3.3/24.9	18	
12 23	8 58.66	+24 54.8	1.426	2.269	16.2	17.8	12 23	9 1.48	+23 5.5	1.423	2.260	16.6	20.6
1 2	8 54.46	+26 1.2	1.355	2.265	12.2	17.6	1 2	8 56.71	+23 59.5	1.341	2.248	12.5	20.3
1 12	8 47.10	+27 13.3	1.306	2.261	7.8	17.3	1 12	8 48.61	+25 1.5	1.281	2.237	7.9	20.0
1 22	8 37.44	+28 22.2	1.283	2.258	4.4	17.1	1 22	8 37.99	+26 3.2	1.247	2.225	3.7	19.8
2 1	8 26.84	+29 18.5	1.286	2.255	5.9	17.2	2 1	8 26.22	+26 55.7	1.239	2.213	5.1	19.8
2 11	8 17.03	+29 55.7	1.315	2.253	10.2	17.4	2 11	8 15.12	+27 31.9	1.258	2.201	10.0	20.1
2 21	8 9.45	+30 11.9	1.368	2.252	14.5	17.7	2 21	8 6.26	+27 49.2	1.301	2.189	14.8	20.3
3 2	8 5.10	+30 8.6	1.440	2.250	18.2	17.9	3 2	8 0.78	+27 48.5	1.364	2.177	18.9	20.5
<b>397838</b>	2008 <i>SY</i> <sub>241</sub>		1 26.6 136°74	2.7/28.2	18		<b>250174</b>	2002 <i>TK</i> <sub>203</sub>		1 26.6 106°96	5.3/23.5	18	
12 23	9 1.06	+9 4.0	1.775	2.566	15.7	21.8	12 23	9 5.27	+31 40.9	1.966	2.784	13.4	21.4
1 2	8 55.34	+9 26.9	1.702	2.579	12.2	21.5	1 2	8 58.45	+32 47.1	1.914	2.806	10.3	21.2
1 12	8 47.19	+10 6.3	1.652	2.591	8.1	21.3	1 12	8 49.04	+33 49.2	1.888	2.828	7.2	21.1
1 22	8 37.37	+10 59.4	1.629	2.603	4.0	21.1	1 22	8 37.95	+34 39.5	1.889	2.848	5.4	21.0
2 1	8 26.98	+12 1.3	1.635	2.613	3.2	21.1	2 1	8 26.42	+35 11.9	1.919	2.869	6.4	21.1
2 11	8 17.24	+13 5.9	1.671	2.624	7.0	21.3	2 11	8 15.82	+35 23.8	1.977	2.888	9.1	21.3
2 21	8 9.24	+14 7.8	1.733	2.633	11.0	21.6	2 21	8 7.24	+35 16.4	2.062	2.907	12.0	21.5
3 2	8 3.73	+15 2.7	1.820	2.641	14.5	21.8	3 2	8 1.39	+34 53.0	2.168	2.926	14.6	21.7
<b>521034</b>	2015 <i>DJ</i> <sub>20</sub>		1 26.6 113°63	3.1/24.3	18		<b>332338</b>	2012 <i>HC</i> <sub>51</sub>		1 26.6 184°06	0.9/27.3	18	
12 23	8 58.65	+28 8.8	2.684	3.498	10.4	21.6	12 23	8 56.74	+13 3.0	2.308	3.105	12.4	21.4
1 2	8 52.91	+28 50.4	2.620	3.514	7.8	21.5	1 2	8 51.77	+13 39.1	2.221	3.105	9.4	21.2
1 12	8 45.40	+29 30.9	2.583	3.529	5.1	21.3	1 12	8 44.88	+14 26.2	2.159	3.105	6.0	21.0
1 22	8 36.74	+30 5.9	2.575	3.544	3.2	21.2	1 22	8 36.66	+15 21.2	2.126	3.104	2.3	20.8
2 1	8 27.75	+30 31.7	2.597	3.559	4.0	21.3	2 1	8 27.89	+16 19.8	2.123	3.103	2.1	20.7
2 11	8 19.30	+30 45.9	2.650	3.574	6.4	21.5	2 11	8 19.52	+17 17.4	2.150	3.102	5.8	21.0
2 21	8 12.15	+30 48.2	2.730	3.588	9.0	21.7	2 21	8 12.38	+18 10.1	2.206	3.100	9.3	21.2
3 2	8 6.85	+30 39.5	2.834	3.602	11.3	21.8	3 2	8 7.15	+18 55.2	2.288	3.098	12.3	21.4
<b>288670</b>	2004 <i>PF</i> <sub>69</sub>		1 26.6 148°41	0.2/26.4	18		<b>57173</b>	2001 <i>QE</i> <sub>22</sub>		1 26.6 53°11	5.4/30.2	18	
12 23	8 58.13	+17 10.9	2.185	2.993	12.6	21.4	12 23	8 55.92	+2 9.5	1.606	2.387	17.5	18.5
1 2	8 52.85	+17 43.2	2.107	2.999	9.4	21.2	1 2	8 51.63	+2 22.8	1.542	2.404	14.1	18.3
1 12	8 45.54	+18 23.3	2.054	3.005	5.8	21.0	1 12	8 44.96	+3 0.3	1.498	2.420	10.3	18.2
1 22	8 36.84	+19 7.4	2.029	3.010	1.8	20.8	1 22	8 36.69	+4 0.6	1.479	2.437	6.7	18.0
2 1	8 27.63	+19 51.1	2.035	3.015	2.3	20.8	2 1	8 27.89	+5 19.3	1.486	2.454	5.5	18.0
2 11	8 18.93	+20 30.2	2.071	3.020	6.2	21.1	2 11	8 19.81	+6 48.7	1.521	2.472	7.8	18.1
2 21	8 11.63	+21 2.0	2.134	3.024	9.7	21.3	2 21	8 13.46	+8 20.8	1.583	2.489	11.4	18.4
3 2	8 6.40	+21 25.2	2.222	3.028	12.7	21.5	3 2	8 9.57	+9 48.3	1.668	2.507	14.8	18.6
<b>165452</b>	2000 <i>YA</i> <sub>116</sub>		1 26.6 24°64	3.5/24.6	18		<b>110150</b>	2001 <i>ST</i> <sub>155</sub>		1 26.6 84°06	1.1/26.0	18	
12 23	8 55.23	+20 8.6	1.098	1.956	18.9	18.8	12 23	9 0.38	+20 14.8	1.795	2.616	14.4	19.7
1 2	8 52.26	+21 47.1	1.049	1.967	14.0	18.6	1 2	8 54.86	+20 39.3	1.728	2.628	10.7	19.5
1 12	8 45.86	+23 39.0	1.020	1.980	8.6	18.3	1 12	8 46.89	+21 9.7	1.686	2.640	6.5	19.2
1 22	8 37.04	+25 32.1	1.015	1.994	3.9	18.1	1 22	8 37.30	+21 41.1	1.671	2.651	2.2	19.0
2 1	8 27.42	+27 12.9	1.035	2.009	5.7	18.2	2 1	8 27.20	+22 8.7	1.684	2.663	3.0	19.1
2 11	8 18.90	+28 31.2	1.079	2.026	10.8	18.6	2 11	8 17.87	+22 28.6	1.726	2.675	7.3	19.4
2 21	8 12.98	+29 23.0	1.146	2.043	15.6	18.9	2 21	8 10.35	+22 39.0	1.795	2.686	11.2	19.6
3 2	8 10.57	+29 49.0	1.231	2.062	19.5	19.2	3 2	8 5.36	+22 39.9	1.886	2.698	14.5	19.8
<b>182641</b>	2001 <i>UH</i> <sub>159</sub>		1 26.6 175°90	3.7/23.9	18		<b>250143</b>	2002 <i>RD</i> <sub>82</sub>		1 26.6 118°51	2.0/27.7	18	
12 23	9 1.15	+28 8.6	2.364	3.179	11.5	20.6	12 23	8 59.76	+11 39.9	1.918	2.716	14.5	21.5
1 2	8 55.15	+29 5.6	2.288	3.182	8.7	20.4	1 2	8 54.19	+11 51.5	1.847	2.729	11.1	21.3
1 12	8 46.98	+30 2.7	2.238	3.184	5.8	20.2	1 12	8 46.41	+12 15.5	1.799	2.742	7.2	21.1
1 22	8 37.31	+30 54.0	2.216	3.185	3.8	20.1	1 22	8 37.14	+12 49.4	1.779	2.755	3.2	20.9
2 1	8 27.07	+31 34.0	2.226	3.186	4.7	20.2	2 1	8 27.38	+13 29.2	1.788	2.767	2.7	20.9
2 11	8 17.35	+31 59.6	2.264	3.186	7.5	20.3	2 11	8 18.27	+14 10.5	1.826	2.779	6.5	21.1
2 21	8 9.10	+32 9.7	2.330	3.185	10.5	20.5	2 21	8 10.76	+14 49.3	1.892	2.790	10.3	21.4
3 2	8 3.04	+32 5.9	2.420	3.184	13.0	20.7	3 2	8 5.54	+15 22.8	1.982	2.801	13.6	21.6
<b>431462</b>	2007 <i>RH</i> <sub>287</sub>		1 26.6 108°54	1.7/25.5	17		<b>467054</b>	2016 <i>DP</i> <sub>6</sub>		1 26.6 25°10	6.5/24.7	18	
12 23	8 57.81	+22 35.3	2.308	3.124	11.7	21.8	12 23	9 6.44	+33 44.6	1.343	2.181	17.3	20.3
1 2	8 52.53	+23 3.2	2.233	3.130	8.7	21.6	1 2	9 0.25	+34 2.9	1.288	2.190	13.4	20.1
1 12	8 45.29	+23 34.0	2.184	3.137	5.4	21.4	1 12	8 50.50	+34 12.2	1.255	2.200	9.4	19.9
1 22	8 36.75	+24 3.9	2.163	3.143	2.1	21.2	1 22	8 38.46	+34 4.1	1.246	2.211	6.7	19.8
2 1	8 27.76	+24 28.7	2.173	3.149	3.0	21.3	2 1	8 25.95	+33 33.2	1.263	2.223	7.6	19.9
2 11	8 19.31	+24 45.5	2.212	3.155	6.3	21.5	2 11	8 14.92	+32 39.5	1.306	2.235	11.1	20.1
2 21	8 12.25	+24 53.1	2.279	3.160	9.6	21.7	2 21	8 6.79	+31 27.9	1.372	2.249	14.9	20.4
3 2	8 7.20	+24 51.5	2.369	3.166	12.4	21.9	3 2	8 2.31	+30 4.8	1.458	2.263	18.3	20.6
<b>500312</b>	2012 <i>RN</i> <sub>4</sub>		1 26.6 114°01	5.1/23.3	18		<b>489455</b>	2007 <i>BV</i> <sub>79</sub>		1 26.6 1°86	3.3/25.5	18	
12 23	9 1.29	+34 32.2	2.456	3.269	11.2	21.4	12 23	9 3.17	+24 52.8	1.162	2.011	18.7	21.0
1 2	8 55.15	+35 15.6	2.391	3.277	8.7	21.3	1 2	8 58.29	+25 9.4	1.097	2.009	14.2	20.7
1 12	8 46.90	+35 53.6	2.352	3.285	6.4	21.1	1 12	8 49.64	+25 28.6	1.052	2.009	8.9	20.4
1 22	8 37.25	+36 20.6	2.341	3.294	5.1	21.1	1 22	8 38.30	+25 42.9	1.030	2.009	4.0	20.1
2 1	8 27.20	+36 32.3	2.359	3.302	5.9	21.1	2 1	8 26.03	+25 45.0	1.033	2.010	5.2	20.2
2 11	8 17.82	+36 27.1	2.406	3.309	8.1	21.3	2 11	8 14.94	+25 31.1	1.061	2.011	10.5	20.5
2 21	8 10.02	+36 5.8	2.479	3.317	10.5	21.4	2 21	8 6.71	+25 2.1	1.112	2.013	15.7	20.8
3 2	8 4.45	+35 31.2	2.575	3.325	12.7	21.6	3 2	8 2.32	+24 21.1	1.182	2.016	20.0	21.1
<b>343622</b>	2010 <i>GF</i> <sub>140</sub>		1 26.6 217°12	4.4/23.2	17		<b>32198</b>	2000 <i>OK</i> <sub>1</sub>		1 26.6 63°87	3.3/28.9	18	
12 23	8 58.30	+31 33.3	2.548	3.366	10.7	21.2	12 23	8 54.					

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>333229</b>	2012 <i>HO</i> <sub>45</sub>		1 26.6 153°43	2°3/25.0	18		<b>170316</b>	2003 <i>SU</i> <sub>49</sub>		1 26.6 165°30	0°5/26.9	18	
12 23	8 59.15	+23 36.5	2.265	3.081	11.9	21.2	12 23	9 1.41	+15 38.1	2.155	2.954	13.1	21.6
1 2	8 53.64	+24 23.3	2.190	3.087	8.9	21.1	1 2	8 55.31	+15 58.1	2.074	2.961	9.9	21.4
1 12	8 46.05	+25 13.2	2.140	3.092	5.5	20.9	1 12	8 47.08	+16 26.6	2.018	2.966	6.1	21.2
1 22	8 37.04	+26 1.2	2.120	3.097	2.6	20.7	1 22	8 37.38	+17 0.3	1.991	2.971	2.1	20.9
2 1	8 27.51	+26 42.2	2.129	3.101	3.6	20.7	2 1	8 27.15	+17 35.2	1.994	2.975	2.2	20.9
2 11	8 18.51	+27 12.6	2.169	3.106	6.8	21.0	2 11	8 17.46	+18 7.6	2.028	2.978	6.2	21.2
2 21	8 10.95	+27 30.9	2.236	3.110	10.1	21.2	2 21	8 9.24	+18 34.6	2.090	2.981	9.9	21.4
3 2	8 5.51	+27 37.3	2.326	3.113	12.9	21.4	3 2	8 3.20	+18 54.8	2.177	2.982	13.0	21.6
<b>170238</b>	2003 <i>QS</i> <sub>27</sub>		1 26.6 171°05	1°0/27.2	18		<b>81187</b>	2000 <i>EL</i> <sub>190</sub>		1 26.6 230°67	1°0/26.0	18	
12 23	9 0.90	+14 9.3	2.061	2.859	13.6	21.5	12 23	8 59.47	+19 27.4	1.837	2.657	14.1	20.2
1 2	8 55.03	+14 27.7	1.978	2.864	10.3	21.3	1 2	8 54.34	+19 58.8	1.754	2.653	10.6	20.0
1 12	8 46.96	+14 56.3	1.921	2.867	6.5	21.1	1 12	8 46.72	+20 37.8	1.695	2.649	6.5	19.8
1 22	8 37.34	+15 31.9	1.891	2.870	2.5	20.8	1 22	8 37.32	+21 19.6	1.664	2.645	2.1	19.5
2 1	8 27.15	+16 10.6	1.891	2.872	2.3	20.8	2 1	8 27.20	+21 58.7	1.661	2.640	3.0	19.5
2 11	8 17.48	+16 48.1	1.922	2.873	6.4	21.1	2 11	8 17.65	+22 30.6	1.687	2.636	7.4	19.8
2 21	8 9.33	+17 21.1	1.980	2.874	10.2	21.3	2 21	8 9.77	+22 52.5	1.740	2.631	11.5	20.0
3 2	8 3.41	+17 47.7	2.063	2.874	13.4	21.5	3 2	8 4.42	+23 3.6	1.815	2.626	15.0	20.2
<b>377611</b>	2005 <i>SJ</i> <sub>7</sub>		1 26.6 333°59	19°2/ 8.4	17		<b>62775</b>	2000 <i>UG</i> <sub>20</sub>		1 26.6 79°37	2°8/28.3	18	
12 23	8 54.51	-19 58.9	1.139	1.836	27.7	20.8	12 23	8 56.97	+ 9 35.6	1.907	2.704	14.6	19.9
1 2	8 51.84	-21 24.0	1.070	1.831	25.7	20.6	1 2	8 52.19	+ 9 39.8	1.831	2.710	11.3	19.7
1 12	8 45.80	-22 2.1	1.012	1.827	23.4	20.4	1 12	8 45.25	+ 9 58.2	1.777	2.716	7.6	19.5
1 22	8 37.15	-21 41.5	0.968	1.822	21.2	20.3	1 22	8 36.81	+10 28.9	1.750	2.723	3.9	19.3
2 1	8 27.27	-20 15.0	0.939	1.818	19.6	20.1	2 1	8 27.84	+11 8.5	1.752	2.729	3.3	19.2
2 11	8 18.02	-17 45.3	0.929	1.815	19.2	20.1	2 11	8 19.43	+11 52.6	1.782	2.736	6.6	19.4
2 21	8 11.08	-14 26.2	0.938	1.812	20.4	20.2	2 21	8 12.53	+12 36.8	1.840	2.742	10.3	19.7
3 2	8 7.67	-10 38.5	0.966	1.810	22.6	20.3	3 2	8 7.84	+13 17.4	1.921	2.749	13.6	19.9
<b>464345</b>	2016 <i>AQ</i> <sub>118</sub>		1 26.6 18°62	0°8/26.9	16		<b>336033</b>	2007 <i>VQ</i> <sub>117</sub>		1 26.6 107°20	3°0/28.6	18	
12 23	8 57.60	+16 29.8	1.275	2.114	18.0	21.0	12 23	8 56.35	+ 8 11.4	2.508	3.284	12.1	21.0
1 2	8 53.54	+16 29.0	1.214	2.121	13.6	20.7	1 2	8 51.18	+ 8 2.7	2.432	3.298	9.4	20.8
1 12	8 46.43	+16 39.9	1.173	2.128	8.5	20.5	1 12	8 44.37	+ 8 5.0	2.381	3.311	6.5	20.7
1 22	8 37.22	+16 58.5	1.156	2.136	2.9	20.2	1 22	8 36.48	+ 8 17.4	2.358	3.325	3.8	20.5
2 1	8 27.34	+17 19.9	1.164	2.146	3.0	20.2	2 1	8 28.25	+ 8 38.1	2.365	3.338	3.2	20.5
2 11	8 18.43	+17 39.1	1.198	2.156	8.5	20.5	2 11	8 20.47	+ 9 4.2	2.402	3.350	5.5	20.7
2 21	8 11.82	+17 52.7	1.256	2.168	13.3	20.9	2 21	8 13.86	+ 9 32.8	2.468	3.363	8.4	20.9
3 2	8 8.33	+17 58.9	1.335	2.180	17.4	21.1	3 2	8 8.95	+10 1.2	2.559	3.375	11.0	21.1
<b>134434</b>	1998 <i>RQ</i> <sub>48</sub>		1 26.6 49°14	0°4/26.4	18		<b>393661</b>	2004 <i>RP</i> <sub>21</sub>		1 26.6 193°71	0°4/26.4	18	
12 23	9 2.37	+18 12.2	1.321	2.153	17.9	19.3	12 23	9 2.98	+18 16.7	2.047	2.853	13.4	22.5
1 2	8 56.71	+18 28.7	1.278	2.182	13.3	19.1	1 2	8 56.72	+18 42.1	1.960	2.851	10.1	22.3
1 12	8 48.10	+18 54.4	1.256	2.211	8.1	18.9	1 12	8 48.08	+19 14.8	1.897	2.848	6.2	22.0
1 22	8 37.67	+19 23.8	1.259	2.241	2.5	18.6	1 22	8 37.75	+19 50.7	1.863	2.844	2.0	21.8
2 1	8 26.91	+19 51.0	1.290	2.271	3.1	18.7	2 1	8 26.73	+20 25.0	1.859	2.839	2.5	21.8
2 11	8 17.40	+20 11.4	1.347	2.301	8.2	19.1	2 11	8 16.23	+20 53.8	1.885	2.833	6.8	22.0
2 21	8 10.32	+20 22.9	1.428	2.331	12.7	19.5	2 21	8 7.31	+21 14.6	1.940	2.827	10.7	22.3
3 2	8 6.34	+20 25.1	1.531	2.361	16.4	19.8	3 2	8 0.76	+21 26.5	2.018	2.819	14.1	22.5
<b>356302</b>	2010 <i>GB</i> <sub>28</sub>		1 26.6 193°45	1°6/27.6	18		<b>445267</b>	2009 <i>SD</i> <sub>229</sub>		1 26.6 179°83	0°1/26.5	18	
12 23	8 59.43	+11 45.5	1.808	2.610	15.1	21.5	12 23	9 4.46	+16 1.7	2.158	2.952	13.2	24.3
1 2	8 54.28	+12 14.6	1.724	2.609	11.6	21.3	1 2	8 57.70	+16 47.4	2.071	2.956	10.0	24.1
1 12	8 46.67	+12 58.7	1.662	2.608	7.5	21.0	1 12	8 48.63	+17 42.7	2.010	2.958	6.1	23.8
1 22	8 37.30	+13 54.2	1.628	2.606	3.1	20.8	1 22	8 37.92	+18 43.2	1.978	2.959	2.0	23.6
2 1	8 27.19	+14 56.2	1.622	2.603	2.7	20.7	2 1	8 26.53	+19 43.5	1.978	2.958	2.4	23.6
2 11	8 17.59	+15 58.6	1.646	2.600	7.0	21.0	2 11	8 15.62	+20 38.2	2.009	2.956	6.5	23.9
2 21	8 9.61	+16 56.2	1.697	2.596	11.2	21.2	2 21	8 6.21	+21 24.1	2.070	2.953	10.3	24.1
3 2	8 4.10	+17 45.3	1.771	2.592	14.9	21.4	3 2	7 59.09	+21 59.5	2.155	2.948	13.6	24.3
<b>155324</b>	2006 <i>AY</i> <sub>81</sub>		1 26.6 87°08	1°5/25.7	18		<b>221366</b>	2005 <i>WH</i> <sub>164</sub>		1 26.6 320°95	5°9/29.1	18	
12 23	8 58.74	+20 48.1	1.940	2.760	13.5	20.4	12 23	8 55.32	+ 5 25.6	1.595	2.391	17.0	19.4
1 2	8 53.55	+21 23.7	1.870	2.769	10.0	20.2	1 2	8 51.58	+ 4 47.6	1.500	2.372	13.8	19.1
1 12	8 46.08	+22 4.9	1.824	2.778	6.1	20.0	1 12	8 45.24	+ 4 27.1	1.426	2.354	10.2	18.9
1 22	8 37.06	+22 46.7	1.806	2.786	2.2	19.8	1 22	8 36.91	+ 4 25.8	1.375	2.336	6.9	18.6
2 1	8 27.53	+23 24.1	1.817	2.795	3.1	19.8	2 1	8 27.65	+ 4 43.2	1.351	2.318	6.0	18.6
2 11	8 18.64	+23 52.9	1.857	2.803	7.1	20.1	2 11	8 18.78	+ 5 16.1	1.352	2.301	8.8	18.7
2 21	8 11.39	+24 11.1	1.924	2.812	10.7	20.3	2 21	8 11.53	+ 5 59.3	1.379	2.285	12.8	18.8
3 2	8 6.49	+24 18.5	2.014	2.820	13.9	20.6	3 2	8 6.90	+ 6 46.8	1.426	2.270	16.6	19.0
<b>331100</b>	2009 <i>WW</i> <sub>220</sub>		1 26.6 46°46	2°5/28.0	18		<b>350231</b>	2012 <i>TY</i> <sub>26</sub>		1 26.6 46°21	0°4/26.8	17	
12 23	8 56.77	+10 44.0	1.863	2.666	14.7	21.5	12 23	9 0.76	+16 5.7	1.150	1.990	19.5	21.0
1 2	8 52.10	+10 45.6	1.787	2.670	11.3	21.3	1 2	8 56.16	+16 23.6	1.094	2.002	14.7	20.7
1 12	8 45.21	+11 0.5	1.733	2.675	7.5	21.1	1 12	8 48.15	+16 55.7	1.059	2.014	9.1	20.5
1 22	8 36.80	+11 26.9	1.705	2.680	3.7	20.8	1 22	8 37.80	+17 36.6	1.046	2.027	3.0	20.1
2 1	8 27.83	+12 1.4	1.707	2.685	3.1	20.8	2 1	8 26.75	+18 19.1	1.059	2.041	3.3	20.2
2 11	8 19.44	+12 39.7	1.736	2.690	6.7	21.1	2 11	8 16.85	+18 56.2	1.097	2.054	9.1	20.6
2 21	8 12.59	+13 17.6	1.792	2.695	10.5	21.3	2 21	8 9.57	+19 23.8	1.158	2.069	14.3	20.9
3 2	8 8.00	+13 51.8	1.872	2.701	13.9	21.5	3 2	8 5.78	+19 40.2	1.240	2.083	18.6	21.2
<b>131732</b>	2001 <i>YC</i> <sub>103</sub>		1 26.6 25°45	1°6/27.3	18		<b>431297</b>	2006 <i>UC</i> <sub>331</sub>		1 26.6 186°34	3°8/30.1	17	
12 23	8 57.09	+13 16.6	1.176	2.014</									

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>290923</b>	2005 <i>WU</i> <sub>123</sub>		1 26.6 155°75	0°9/27.1	18		<b>295415</b>	2008 <i>JV</i> <sub>35</sub>		1 26.6 308°32	1°0/26.0	17	
12 23	8 58.56	+14 41.7	2.066	2.870	13.3	21.8	12 23	8 57.00	+18 36.7	1.638	2.467	15.1	20.7
1 2	8 53.29	+14 58.2	1.986	2.874	10.1	21.6	1 2	8 52.90	+19 16.0	1.549	2.452	11.4	20.4
1 12	8 45.89	+15 24.2	1.930	2.878	6.4	21.4	1 12	8 46.08	+20 5.9	1.483	2.438	7.0	20.1
1 22	8 37.03	+15 56.8	1.902	2.881	2.3	21.2	1 22	8 37.22	+21 1.4	1.443	2.424	2.3	19.8
2 1	8 27.63	+16 32.2	1.903	2.884	2.3	21.2	2 1	8 27.43	+21 55.8	1.431	2.410	3.2	19.8
2 11	8 18.76	+17 6.3	1.935	2.887	6.3	21.4	2 11	8 18.12	+22 42.7	1.446	2.397	8.1	20.1
2 21	8 11.34	+17 36.1	1.993	2.890	10.0	21.6	2 21	8 10.57	+23 18.2	1.487	2.384	12.7	20.3
3 2	8 6.09	+17 59.6	2.076	2.892	13.2	21.9	3 2	8 5.76	+23 40.6	1.549	2.371	16.6	20.5
<b>371229</b>	2006 <i>BS</i> <sub>70</sub>		1 26.6 16°00	2°4/25.2	18		<b>433470</b>	2013 <i>VD</i> <sub>11</sub>		1 26.6 21°23	4°1/29.2	18	
12 23	8 57.63	+22 28.3	1.794	2.624	14.0	20.8	12 23	8 53.69	+ 6 14.5	1.746	2.543	15.8	20.3
1 2	8 53.01	+23 15.2	1.722	2.625	10.4	20.5	1 2	8 49.91	+ 6 17.4	1.675	2.550	12.5	20.1
1 12	8 45.90	+24 7.5	1.673	2.627	6.5	20.3	1 12	8 43.93	+ 6 38.7	1.625	2.558	8.8	19.9
1 22	8 37.07	+24 59.3	1.650	2.629	2.8	20.1	1 22	8 36.44	+ 7 17.1	1.600	2.567	5.2	19.7
2 1	8 27.59	+25 44.3	1.657	2.632	3.9	20.2	2 1	8 28.42	+ 8 9.1	1.603	2.576	4.3	19.7
2 11	8 18.74	+26 17.7	1.691	2.634	7.9	20.4	2 11	8 20.99	+ 9 9.2	1.633	2.586	7.1	19.9
2 21	8 11.64	+26 37.4	1.751	2.637	11.7	20.6	2 21	8 15.11	+10 11.6	1.689	2.597	10.7	20.1
3 2	8 7.06	+26 43.5	1.833	2.640	15.0	20.9	3 2	8 11.47	+11 11.0	1.769	2.608	14.1	20.3
<b>433105</b>	2012 <i>TG</i> <sub>110</sub>		1 26.6 141°21	1°5/25.6	18		<b>97929</b>	2000 <i>QB</i> <sub>105</sub>		1 26.6 102°53	3°6/24.6	18	
12 23	8 58.09	+23 1.9	2.602	3.413	10.7	21.7	12 23	9 3.13	+24 39.4	1.622	2.450	15.3	19.1
1 2	8 52.55	+23 20.1	2.524	3.419	8.0	21.5	1 2	8 57.28	+25 43.9	1.563	2.465	11.4	18.9
1 12	8 45.25	+23 40.2	2.473	3.424	4.9	21.4	1 12	8 48.58	+26 51.8	1.528	2.480	7.2	18.7
1 22	8 36.79	+23 58.8	2.450	3.429	1.9	21.2	1 22	8 37.95	+27 55.1	1.520	2.495	3.8	18.6
2 1	8 27.95	+24 12.9	2.459	3.434	2.7	21.2	2 1	8 26.70	+28 45.9	1.540	2.510	5.1	18.7
2 11	8 19.59	+24 20.1	2.497	3.439	5.7	21.4	2 11	8 16.37	+29 19.3	1.588	2.524	9.0	18.9
2 21	8 12.47	+24 19.6	2.564	3.444	8.7	21.6	2 21	8 8.19	+29 34.4	1.661	2.537	12.8	19.2
3 2	8 7.18	+24 11.5	2.656	3.448	11.3	21.8	3 2	8 2.96	+29 33.1	1.756	2.550	16.1	19.4
<b>366901</b>	2005 <i>UL</i> <sub>11</sub>		1 26.6 172°87	1°8/27.8	18		<b>117817</b>	2005 <i>JH</i> <sub>1</sub>		1 26.6 190°94	0°8/27.1	18	
12 23	8 59.07	+11 52.6	2.560	3.343	11.7	22.2	12 23	8 59.02	+14 13.1	2.176	2.976	12.9	20.7
1 2	8 53.26	+11 55.9	2.473	3.347	9.0	22.0	1 2	8 53.61	+14 41.0	2.089	2.975	9.8	20.5
1 12	8 45.70	+12 8.1	2.411	3.350	5.9	21.8	1 12	8 46.12	+15 19.1	2.026	2.973	6.2	20.3
1 22	8 36.95	+12 27.5	2.378	3.353	2.7	21.6	1 22	8 37.15	+16 4.4	1.991	2.971	2.3	20.0
2 1	8 27.75	+12 51.7	2.376	3.355	2.3	21.6	2 1	8 27.58	+16 52.6	1.987	2.968	2.2	20.0
2 11	8 18.96	+13 17.9	2.406	3.356	5.4	21.8	2 11	8 18.44	+17 39.1	2.013	2.964	6.1	20.3
2 21	8 11.35	+13 43.4	2.464	3.356	8.5	22.0	2 21	8 10.66	+18 20.6	2.067	2.960	9.8	20.5
3 2	8 5.51	+14 6.3	2.548	3.356	11.3	22.2	3 2	8 4.96	+18 54.6	2.146	2.956	13.0	20.7
<b>362184</b>	2009 <i>FZ</i> <sub>64</sub>		1 26.6 119°54	7°6/21.9	18		<b>47936</b>	2000 <i>HS</i> <sub>29</sub>		1 26.6 78°48	2°5/25.1	18	
12 23	9 9.78	+40 55.8	2.197	2.996	12.9	21.2	12 23	8 58.82	+24 48.7	2.164	2.985	12.3	18.6
1 2	9 1.85	+42 5.9	2.150	3.016	10.5	21.1	1 2	8 53.45	+25 19.7	2.094	2.993	9.1	18.4
1 12	8 51.16	+43 4.7	2.128	3.037	8.5	21.0	1 12	8 45.96	+25 52.3	2.049	3.001	5.7	18.2
1 22	8 38.70	+43 44.2	2.133	3.056	7.6	21.0	1 22	8 37.07	+26 21.6	2.032	3.009	2.8	18.0
2 1	8 25.81	+43 59.1	2.166	3.075	8.5	21.1	2 1	8 27.72	+26 43.5	2.044	3.017	3.7	18.1
2 11	8 13.97	+43 48.3	2.226	3.093	10.3	21.2	2 11	8 19.00	+26 54.8	2.086	3.025	6.9	18.3
2 21	8 4.34	+43 15.0	2.311	3.110	12.5	21.4	2 21	8 11.80	+26 55.0	2.155	3.033	10.2	18.5
3 2	7 57.66	+42 24.3	2.418	3.127	14.5	21.6	3 2	8 6.79	+26 44.7	2.247	3.041	13.0	18.7
<b>492609</b>	2014 <i>OL</i> <sub>216</sub>		1 26.6 100°59	1°8/25.8	18		<b>277175</b>	2005 <i>OS</i> <sub>14</sub>		1 26.6 146°68	1°3/25.9	18	
12 23	9 4.54	+22 33.0	1.771	2.589	14.7	20.7	12 23	9 6.17	+20 52.1	1.880	2.689	14.3	21.7
1 2	8 57.93	+22 52.2	1.710	2.608	10.9	20.5	1 2	8 59.13	+21 18.2	1.810	2.703	10.7	21.5
1 12	8 48.77	+23 14.5	1.673	2.626	6.7	20.3	1 12	8 49.54	+21 49.2	1.764	2.715	6.5	21.3
1 22	8 37.95	+23 34.7	1.664	2.644	2.5	20.1	1 22	8 38.23	+22 19.9	1.746	2.726	2.3	21.0
2 1	8 26.71	+23 48.3	1.684	2.661	3.4	20.2	2 1	8 26.39	+22 45.3	1.759	2.737	3.1	21.1
2 11	8 16.40	+23 52.3	1.733	2.678	7.5	20.5	2 11	8 15.35	+23 1.9	1.801	2.746	7.3	21.4
2 21	8 8.10	+23 46.3	1.809	2.695	11.4	20.7	2 21	8 6.20	+23 8.4	1.871	2.755	11.2	21.7
3 2	8 2.51	+23 31.2	1.908	2.711	14.7	21.0	3 2	7 59.71	+23 5.3	1.965	2.762	14.5	21.9
<b>215526</b>	2002 <i>VV</i> <sub>83</sub>		1 26.6 91°00	7°1/30.8	18		<b>287442</b>	2002 <i>XU</i> <sub>36</sub>		1 26.6 136°24	2°8/28.4	18	
12 23	8 59.49	- 0 52.9	1.878	2.626	16.5	19.7	12 23	8 57.15	+ 9 0.7	2.648	3.423	11.5	20.9
1 2	8 53.95	- 1 30.6	1.813	2.647	13.7	19.5	1 2	8 51.74	+ 8 46.5	2.567	3.433	9.0	20.7
1 12	8 46.26	- 1 47.5	1.769	2.667	10.6	19.3	1 12	8 44.72	+ 8 41.9	2.511	3.442	6.2	20.6
1 22	8 37.15	- 1 42.1	1.751	2.687	8.0	19.2	1 22	8 36.65	+ 8 46.2	2.483	3.451	3.5	20.4
2 1	8 27.61	- 1 15.7	1.759	2.706	7.1	19.2	2 1	8 28.22	+ 8 58.0	2.486	3.459	3.0	20.4
2 11	8 18.74	- 0 32.1	1.795	2.725	8.5	19.3	2 11	8 20.22	+ 9 14.8	2.520	3.467	5.3	20.5
2 21	8 11.47	+ 0 23.0	1.857	2.744	11.1	19.5	2 21	8 13.32	+ 9 34.3	2.582	3.475	8.1	20.7
3 2	8 6.45	+ 1 23.2	1.943	2.763	13.8	19.7	3 2	8 8.07	+ 9 54.1	2.670	3.483	10.7	20.9
<b>121877</b>	2000 <i>CG</i> <sub>120</sub>		1 26.6 45°21	2°6/27.7	18		<b>74549</b>	1999 <i>JU</i> <sub>80</sub>		1 26.6 327°81	3°6/23.9	18	
12 23	9 0.76	+12 30.6	1.301	2.125	18.6	19.6	12 23	8 54.11	+23 16.4	1.787	2.624	13.7	18.1
1 2	8 55.92	+12 20.1	1.234	2.130	14.3	19.3	1 2	8 50.71	+24 46.2	1.697	2.605	10.3	17.9
1 12	8 47.96	+12 25.2	1.187	2.135	9.4	19.0	1 12	8 44.74	+26 25.4	1.632	2.586	6.6	17.6
1 22	8 37.79	+12 43.5	1.164	2.141	4.2	18.8	1 22	8 36.81	+28 6.1	1.593	2.568	3.7	17.4
2 1	8 26.84	+13 10.9	1.167	2.147	3.7	18.7	2 1	8 27.92	+29 39.2	1.584	2.551	5.3	17.5
2 11	8 16.80	+13 41.8	1.196	2.153	8.6	19.0	2 11	8 19.37	+30 56.8	1.602	2.535	9.1	17.7
2 21	8 9.06	+14 11.4	1.249	2.159	13.5	19.3	2 21	8 12.41	+31 54.3	1.645	2.519	13.0	17.8
3 2	8 4.52	+14 36.0	1.323	2.166	17.7	19.6	3 2	8 8.02	+32 31.0	1.709	2.504	16.4	18.0
<b>212793</b>	2007 <i>TQ</i> <sub>242</sub>		1 26.6 7°05	10°2/31.9	18		<b>204311</b>	2004 <i>RH</i> <sub>29</sub>		1 26.6 112°88	1°0/		

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>266345</b>	2007 <i>DU</i> <sub>93</sub>		1 26.6 195°41	4.5/24.1	18		<b>282335</b>	2002 <i>UV</i> <sub>70</sub>		1 26.6 107°08	4.1/29.4	18	
12 23	9 1.97	+29 56.5	2.011	2.834	13.0	20.4	12 23	8 55.49	+ 4 40.2	2.377	3.144	12.9	20.6
1 2	8 56.14	+30 40.8	1.937	2.833	9.9	20.2	1 2	8 50.71	+ 4 28.5	2.297	3.152	10.4	20.5
1 12	8 47.80	+31 23.3	1.887	2.832	6.7	20.0	1 12	8 44.20	+ 4 30.8	2.240	3.160	7.5	20.3
1 22	8 37.70	+31 57.3	1.864	2.831	4.6	19.9	1 22	8 36.52	+ 4 46.7	2.210	3.167	5.0	20.1
2 1	8 26.99	+32 17.4	1.870	2.830	5.6	20.0	2 1	8 28.44	+ 5 14.6	2.209	3.175	4.2	20.1
2 11	8 16.96	+32 20.6	1.905	2.829	8.6	20.1	2 11	8 20.78	+ 5 51.3	2.238	3.182	6.1	20.2
2 21	8 8.72	+32 7.1	1.966	2.827	11.8	20.3	2 21	8 14.30	+ 6 33.0	2.295	3.190	8.9	20.4
3 2	8 3.05	+31 39.3	2.048	2.825	14.7	20.5	3 2	8 9.58	+ 7 16.0	2.376	3.197	11.6	20.6
<b>152358</b>	2005 <i>UG</i> <sub>126</sub>		1 26.6 101°71	1.4/25.8	18		<b>432438</b>	2010 <i>BX</i> <sub>106</sub>		1 26.6 240°81	1.4/25.8	17	
12 23	8 59.59	+20 39.1	1.924	2.744	13.6	20.7	12 23	8 59.21	+23 3.3	2.429	3.241	11.4	21.5
1 2	8 54.22	+21 12.0	1.854	2.753	10.1	20.5	1 2	8 53.57	+23 10.3	2.342	3.237	8.5	21.3
1 12	8 46.54	+21 50.5	1.808	2.762	6.2	20.3	1 12	8 46.00	+23 18.9	2.282	3.233	5.2	21.1
1 22	8 37.28	+22 29.8	1.790	2.770	2.2	20.0	1 22	8 37.12	+23 25.9	2.249	3.229	2.0	20.8
2 1	8 27.50	+23 4.7	1.801	2.779	3.0	20.1	2 1	8 27.76	+23 28.3	2.248	3.225	2.7	20.9
2 11	8 18.39	+23 31.3	1.841	2.788	7.1	20.4	2 11	8 18.89	+23 24.2	2.277	3.221	6.1	21.1
2 21	8 10.94	+23 47.7	1.908	2.796	10.8	20.6	2 21	8 11.35	+23 12.7	2.333	3.217	9.3	21.3
3 2	8 5.88	+23 53.6	1.998	2.804	14.0	20.8	3 2	8 5.79	+22 54.2	2.415	3.212	12.1	21.5
<b>83706</b>	2001 <i>TM</i> <sub>77</sub>		1 26.6 147°65	6.1/21.5	18		<b>336540</b>	2009 <i>BD</i> <sub>25</sub>		1 26.6 109°13	1.8/25.5	18	
12 23	9 0.27	+37 53.2	2.609	3.417	10.8	19.6	12 23	8 59.16	+23 55.6	2.373	3.188	11.5	20.8
1 2	8 54.56	+39 6.1	2.545	3.422	8.6	19.5	1 2	8 53.52	+24 12.2	2.299	3.194	8.6	20.6
1 12	8 46.69	+40 12.6	2.507	3.426	6.8	19.4	1 12	8 45.94	+24 30.2	2.249	3.201	5.3	20.4
1 22	8 37.33	+41 6.4	2.497	3.431	6.1	19.3	1 22	8 37.08	+24 45.8	2.229	3.207	2.2	20.2
2 1	8 27.43	+41 42.4	2.517	3.435	7.0	19.4	2 1	8 27.82	+24 55.7	2.239	3.214	3.0	20.3
2 11	8 18.07	+41 58.3	2.564	3.438	8.8	19.5	2 11	8 19.12	+24 57.7	2.278	3.220	6.2	20.5
2 21	8 10.21	+41 54.6	2.636	3.442	10.9	19.7	2 21	8 11.82	+24 51.0	2.346	3.226	9.4	20.7
3 2	8 4.55	+41 34.0	2.729	3.445	12.8	19.8	3 2	8 6.53	+24 36.3	2.438	3.232	12.1	20.9
<b>13484</b>	1981 <i>EA</i> <sub>16</sub>		1 26.6 237°25	2°2/25.7	18		<b>203049</b>	2000 <i>EO</i> <sub>113</sub>		1 26.6 117°30	2°7/24.9	18	
12 23	9 5.00	+22 59.1	1.573	2.398	15.9	18.6	12 23	9 0.10	+26 21.5	2.310	3.126	11.7	20.6
1 2	8 59.02	+23 19.8	1.488	2.389	12.0	18.4	1 2	8 54.29	+26 49.2	2.238	3.134	8.8	20.4
1 12	8 49.91	+23 44.9	1.426	2.380	7.5	18.1	1 12	8 46.45	+27 16.9	2.193	3.142	5.6	20.2
1 22	8 38.47	+24 8.2	1.390	2.370	3.0	17.8	1 22	8 37.25	+27 40.0	2.175	3.150	2.9	20.1
2 1	8 26.07	+24 23.7	1.383	2.360	4.0	17.8	2 1	8 27.63	+27 54.7	2.188	3.158	3.8	20.2
2 11	8 14.39	+24 27.3	1.403	2.349	8.9	18.1	2 11	8 18.62	+27 58.4	2.230	3.165	6.8	20.4
2 21	8 4.86	+24 18.0	1.449	2.338	13.5	18.3	2 21	8 11.10	+27 51.0	2.300	3.172	9.9	20.6
3 2	7 58.50	+23 57.2	1.516	2.327	17.5	18.6	3 2	8 5.71	+27 33.4	2.394	3.179	12.6	20.8
<b>419999</b>	2011 <i>CW</i> <sub>42</sub>		1 26.6 212°44	2°3/27.9	18		<b>404244</b>	2013 <i>EY</i> <sub>11</sub>		1 26.6 356°45	0°3/26.5	18	
12 23	8 57.85	+11 39.9	1.983	2.783	14.0	21.1	12 23	8 59.06	+16 31.6	1.486	2.314	16.5	21.5
1 2	8 52.87	+11 35.4	1.899	2.782	10.8	20.9	1 2	8 54.51	+17 8.2	1.411	2.313	12.5	21.2
1 12	8 45.71	+11 42.3	1.839	2.781	7.1	20.7	1 12	8 47.08	+17 57.6	1.359	2.313	7.7	20.9
1 22	8 37.04	+11 59.1	1.806	2.781	3.4	20.4	1 22	8 37.56	+18 54.6	1.331	2.313	2.5	20.6
2 1	8 27.78	+12 22.8	1.801	2.780	2.9	20.4	2 1	8 27.21	+19 52.1	1.332	2.313	3.0	20.6
2 11	8 19.04	+12 50.1	1.826	2.779	6.5	20.6	2 11	8 17.56	+20 43.5	1.359	2.313	8.2	21.0
2 21	8 11.75	+13 17.3	1.877	2.778	10.3	20.8	2 21	8 9.92	+21 24.2	1.411	2.313	12.9	21.2
3 2	8 6.66	+13 41.8	1.953	2.777	13.6	21.1	3 2	8 5.22	+21 52.2	1.485	2.313	16.9	21.5
<b>334588</b>	2002 <i>TK</i> <sub>182</sub>		1 26.6 165°54	1°7/27.7	18		<b>491971</b>	2013 <i>EP</i> <sub>8</sub>		1 26.6 317°26	2°0/27.5	18	
12 23	8 57.84	+12 56.1	2.477	3.268	11.8	20.8	12 23	8 58.59	+13 6.1	1.421	2.244	17.4	21.3
1 2	8 52.41	+12 48.1	2.392	3.271	9.0	20.6	1 2	8 54.29	+13 6.2	1.340	2.237	13.4	21.1
1 12	8 45.23	+12 48.1	2.332	3.273	5.9	20.4	1 12	8 47.03	+13 21.0	1.280	2.229	8.7	20.8
1 22	8 36.84	+12 54.6	2.300	3.276	2.7	20.2	1 22	8 37.57	+13 48.1	1.244	2.222	3.7	20.5
2 1	8 28.03	+13 5.6	2.299	3.278	2.3	20.1	2 1	8 27.18	+14 23.1	1.235	2.216	3.3	20.4
2 11	8 19.66	+13 18.7	2.328	3.279	5.4	20.4	2 11	8 17.42	+15 0.3	1.252	2.209	8.3	20.7
2 21	8 12.49	+13 31.8	2.386	3.281	8.6	20.6	2 21	8 9.69	+15 34.8	1.294	2.203	13.2	20.9
3 2	8 7.10	+13 43.1	2.469	3.282	11.4	20.7	3 2	8 4.96	+16 3.0	1.357	2.197	17.5	21.2
<b>210406</b>	2007 <i>VG</i> <sub>308</sub>		1 26.6 182°39	0°2/26.5	18		<b>433843</b>	2015 <i>BA</i> <sub>253</sub>		1 26.6 196°35	0°7/27.0	17	
12 23	9 1.24	+17 36.1	2.078	2.885	13.2	21.7	12 23	8 58.53	+16 22.3	2.481	3.280	11.5	21.3
1 2	8 55.36	+17 59.6	1.995	2.886	9.9	21.4	1 2	8 52.98	+16 18.0	2.392	3.278	8.7	21.1
1 12	8 47.24	+18 30.6	1.936	2.886	6.1	21.2	1 12	8 45.61	+16 19.4	2.329	3.277	5.5	20.9
1 22	8 37.53	+19 5.3	1.905	2.886	2.0	20.9	1 22	8 37.01	+16 24.6	2.295	3.274	2.0	20.6
2 1	8 27.22	+19 39.5	1.904	2.885	2.4	21.0	2 1	8 27.94	+16 31.3	2.291	3.272	2.0	20.6
2 11	8 17.44	+20 9.1	1.934	2.883	6.5	21.2	2 11	8 19.31	+16 37.2	2.319	3.270	5.5	20.8
2 21	8 9.17	+20 31.6	1.991	2.881	10.3	21.5	2 21	8 11.90	+16 40.8	2.374	3.267	8.8	21.0
3 2	8 3.17	+20 45.9	2.073	2.878	13.6	21.7	3 2	8 6.34	+16 40.9	2.455	3.264	11.6	21.2
<b>423308</b>	2005 <i>EE</i> <sub>182</sub>		1 26.6 289°38	1°5/25.7	17		<b>235506</b>	2004 <i>BC</i> <sub>119</sub>		1 26.6 41°40	2°1/25.6	18	
12 23	8 56.64	+20 47.1	2.129	2.949	12.5	20.9	12 23	8 59.85	+24 14.1	1.927	2.751	13.4	20.1
1 2	8 52.09	+21 25.6	2.032	2.932	9.4	20.7	1 2	8 54.39	+24 28.5	1.860	2.761	10.0	19.9
1 12	8 45.34	+22 10.7	1.960	2.914	5.8	20.4	1 12	8 46.62	+24 44.3	1.818	2.771	6.2	19.7
1 22	8 36.96	+22 57.7	1.916	2.896	2.1	20.2	1 22	8 37.33	+24 57.2	1.802	2.781	2.6	19.5
2 1	8 27.84	+23 41.7	1.901	2.878	3.1	20.2	2 1	8 27.61	+25 3.1	1.816	2.791	3.5	19.6
2 11	8 19.08	+24 18.1	1.915	2.860	6.9	20.4	2 11	8 18.63	+24 59.6	1.858	2.802	7.2	19.8
2 21	8 11.66	+24 44.2	1.956	2.843	10.7	20.6	2 21	8 11.39	+24 46.3	1.927	2.813	10.8	20.0
3 2	8 6.41	+24 59.1	2.021	2.825	13.9	20.8	3 2	8 6.56	+24 24.3	2.019	2.824	13.9	20.3
<b>285583</b>	2000 <i>QV</i> <sub>59</sub>		1 26.6 85°39	0°4/26.4	17		<b>430390</b>	2014 <i>WB</i> <sub>423</sub>		1 26.6 85°17	3°1/24.5	18	
12 23	9 4.61	+17 51.1	1.580	2.397	16								



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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>262596</b>	2006 VL <sub>114</sub>		1 26.6 188°42'	4.4°/28.8	18		<b>145294</b>	2005 KX <sub>2</sub>		1 26.6 178°36'	6.4°/1.2	18	
12 23	8 59.11	+ 6 57.3	1.886	2.670	15.2	20.7	12 23	8 54.98	- 7 55.1	3.350	4.025	11.2	20.4
1 2	8 53.90	+ 6 33.2	1.802	2.669	12.1	20.4	1 2	8 49.94	- 8 31.7	3.258	4.027	9.7	20.3
1 12	8 46.42	+ 6 23.8	1.740	2.669	8.6	20.2	1 12	8 43.61	- 8 53.5	3.187	4.028	8.2	20.2
1 22	8 37.32	+ 6 29.2	1.705	2.668	5.3	20.0	1 22	8 36.39	- 8 59.1	3.143	4.029	6.9	20.1
2 1	8 27.59	+ 6 47.8	1.697	2.668	4.6	20.0	2 1	8 28.81	- 8 48.3	3.126	4.029	6.4	20.1
2 11	8 18.37	+ 7 16.2	1.719	2.667	7.3	20.1	2 11	8 21.49	- 8 22.5	3.139	4.029	6.9	20.1
2 21	8 10.69	+ 7 50.2	1.767	2.665	10.9	20.3	2 21	8 14.96	- 7 44.4	3.179	4.028	8.1	20.2
3 2	8 5.31	+ 8 25.5	1.838	2.664	14.2	20.6	3 2	8 9.70	- 6 57.7	3.244	4.027	9.6	20.3
<b>259947</b>	2004 EG <sub>64</sub>		1 26.6 26°09'	0°6'/26.4	18		<b>263008</b>	2007 EU <sub>152</sub>		1 26.6 38°54'	3°5'/24.8	18	
12 23	8 59.73	+19 54.3	1.116	1.966	19.2	19.3	12 23	8 59.74	+25 29.6	1.686	2.519	14.6	20.8
1 2	8 55.36	+19 50.1	1.068	1.982	14.4	19.0	1 2	8 54.77	+26 16.7	1.621	2.525	10.9	20.5
1 12	8 47.63	+19 53.9	1.041	1.999	8.8	18.8	1 12	8 47.11	+27 6.3	1.578	2.531	7.0	20.3
1 22	8 37.70	+20 0.7	1.036	2.017	2.8	18.5	1 22	8 37.59	+27 51.4	1.562	2.538	3.7	20.1
2 1	8 27.27	+20 5.2	1.056	2.037	3.4	18.6	2 1	8 27.46	+28 25.4	1.574	2.545	4.9	20.2
2 11	8 18.17	+20 3.7	1.101	2.058	9.1	19.0	2 11	8 18.12	+28 44.3	1.614	2.552	8.7	20.5
2 21	8 11.73	+19 54.8	1.168	2.080	14.1	19.3	2 21	8 10.73	+28 47.2	1.679	2.559	12.4	20.7
3 2	8 8.72	+19 38.4	1.256	2.104	18.2	19.7	3 2	8 6.11	+28 35.5	1.765	2.567	15.7	20.9
<b>161517</b>	2004 RZ <sub>328</sub>		1 26.6 208°48'	2°5'/28.0	18		<b>126814</b>	2002 EE <sub>44</sub>		1 26.6 358°83'	4°5'/24.0	18	
12 23	9 0.58	+10 18.8	1.873	2.667	15.0	21.4	12 23	8 55.62	+25 17.8	1.443	2.291	15.8	19.0
1 2	8 55.14	+10 30.2	1.783	2.661	11.6	21.2	1 2	8 52.21	+26 34.8	1.375	2.288	11.9	18.7
1 12	8 47.27	+10 56.2	1.715	2.655	7.7	20.9	1 12	8 45.81	+27 57.4	1.330	2.285	7.7	18.5
1 22	8 37.63	+11 34.6	1.674	2.649	3.8	20.7	1 22	8 37.24	+29 16.4	1.310	2.284	4.6	18.3
2 1	8 27.21	+12 21.7	1.663	2.642	3.1	20.6	2 1	8 27.81	+30 22.1	1.317	2.284	6.2	18.4
2 11	8 17.25	+13 12.4	1.681	2.634	7.0	20.8	2 11	8 19.13	+31 7.9	1.349	2.285	10.2	18.6
2 21	8 8.85	+14 1.9	1.726	2.625	11.1	21.1	2 21	8 12.56	+31 31.4	1.405	2.287	14.3	18.8
3 2	8 2.86	+14 46.5	1.795	2.616	14.7	21.3	3 2	8 9.05	+31 33.9	1.480	2.290	17.8	19.1
<b>224009</b>	2005 GU <sub>96</sub>		1 26.6 162°76'	2°0'/25.6	18		<b>238902</b>	2005 YO <sub>184</sub>		1 26.6 2°88'	2°3'/27.7	18	
12 23	9 5.25	+21 21.3	1.713	2.530	15.1	21.8	12 23	8 57.20	+11 43.7	1.251	2.081	18.8	20.4
1 2	8 58.83	+22 6.8	1.639	2.537	11.3	21.6	1 2	8 53.50	+11 56.5	1.181	2.080	14.5	20.2
1 12	8 49.59	+22 58.6	1.590	2.543	7.0	21.4	1 12	8 46.66	+12 28.5	1.130	2.080	9.5	19.9
1 22	8 38.36	+23 50.4	1.568	2.548	2.7	21.1	1 22	8 37.54	+13 16.6	1.102	2.080	4.1	19.6
2 1	8 26.41	+24 35.2	1.576	2.552	3.8	21.2	2 1	8 27.50	+14 14.6	1.100	2.081	3.5	19.5
2 11	8 15.22	+25 8.0	1.613	2.556	8.2	21.4	2 11	8 18.26	+15 14.7	1.124	2.083	8.7	19.8
2 21	8 6.04	+25 26.8	1.675	2.558	12.3	21.7	2 21	8 11.23	+16 10.0	1.171	2.085	13.8	20.1
3 2	7 59.75	+25 32.2	1.761	2.560	15.9	21.9	3 2	8 7.42	+16 55.7	1.239	2.088	18.3	20.4
<b>54161</b>	2000 HO <sub>51</sub>		1 26.6 278°90'	3°2'/25.1	18		<b>148482</b>	2001 HC <sub>21</sub>		1 26.6 268°06'	0°9'/26.2	18	
12 23	9 1.19	+23 11.0	1.459	2.295	16.3	19.2	12 23	8 59.81	+19 8.3	1.745	2.567	14.7	20.5
1 2	8 56.47	+24 3.1	1.378	2.284	12.3	18.9	1 2	8 54.88	+19 37.0	1.656	2.555	11.1	20.2
1 12	8 48.51	+25 2.6	1.318	2.273	7.7	18.6	1 12	8 47.29	+20 14.1	1.589	2.543	6.8	19.9
1 22	8 38.11	+26 1.8	1.284	2.262	3.6	18.4	1 22	8 37.72	+20 55.1	1.549	2.530	2.2	19.6
2 1	8 26.63	+26 51.8	1.277	2.251	5.0	18.4	2 1	8 27.27	+21 34.2	1.538	2.518	3.0	19.6
2 11	8 15.79	+27 26.2	1.297	2.240	9.8	18.7	2 11	8 17.32	+22 6.4	1.555	2.505	7.8	19.9
2 21	8 7.14	+27 42.2	1.341	2.229	14.4	18.9	2 21	8 9.09	+22 28.5	1.598	2.493	12.1	20.1
3 2	8 1.75	+27 40.9	1.405	2.218	18.5	19.1	3 2	8 3.53	+22 39.6	1.664	2.480	15.9	20.3
<b>429316</b>	2010 EU <sub>70</sub>		1 26.6 270°40'	6°3'/22.6	18		<b>61934</b>	2000 RA <sub>7</sub>		1 26.6 158°47'	2°0'/25.5	18	
12 23	9 2.43	+37 24.3	2.308	3.120	11.9	20.9	12 23	9 3.81	+22 42.7	2.090	2.900	13.0	20.4
1 2	8 56.41	+38 13.6	2.234	3.115	9.5	20.7	1 2	8 57.29	+23 21.8	2.015	2.909	9.7	20.2
1 12	8 47.95	+38 55.8	2.184	3.109	7.3	20.6	1 12	8 48.45	+24 4.5	1.966	2.917	6.0	20.0
1 22	8 37.81	+39 24.4	2.161	3.104	6.3	20.5	1 22	8 38.01	+24 45.4	1.946	2.924	2.5	19.7
2 1	8 27.09	+39 34.1	2.167	3.098	7.1	20.6	2 1	8 27.01	+25 19.5	1.956	2.930	3.4	19.8
2 11	8 17.04	+39 23.1	2.201	3.093	9.3	20.7	2 11	8 16.65	+25 43.1	1.996	2.936	7.1	20.1
2 21	8 8.72	+38 52.6	2.260	3.087	11.8	20.8	2 21	8 7.96	+25 54.7	2.064	2.940	10.7	20.3
3 2	8 2.89	+38 6.1	2.340	3.082	14.1	21.0	3 2	8 1.65	+25 55.1	2.155	2.944	13.7	20.5
<b>288658</b>	2004 PE <sub>56</sub>		1 26.6 181°96'	1°1'/27.3	18		<b>364420</b>	2006 WC <sub>37</sub>		1 26.6 170°52'	5°1'/29.9	18	
12 23	9 1.91	+13 38.7	2.023	2.819	13.9	22.3	12 23	8 58.48	+ 2 6.9	2.269	3.021	13.9	22.1
1 2	8 55.93	+13 59.3	1.938	2.821	10.6	22.1	1 2	8 53.09	+ 1 52.1	2.183	3.025	11.3	21.9
1 12	8 47.65	+14 30.9	1.876	2.822	6.7	21.8	1 12	8 45.78	+ 1 53.6	2.119	3.028	8.5	21.7
1 22	8 37.74	+15 10.3	1.843	2.822	2.6	21.6	1 22	8 37.14	+ 2 11.6	2.082	3.031	6.0	21.6
2 1	8 27.19	+15 53.4	1.840	2.821	2.4	21.5	2 1	8 27.99	+ 2 44.7	2.074	3.033	5.2	21.5
2 11	8 17.14	+16 35.6	1.867	2.819	6.5	21.8	2 11	8 19.26	+ 3 29.5	2.096	3.035	6.9	21.6
2 21	8 8.62	+17 13.3	1.922	2.816	10.4	22.0	2 21	8 11.78	+ 4 21.6	2.145	3.036	9.7	21.8
3 2	8 2.40	+17 44.2	2.002	2.812	13.8	22.2	3 2	8 6.22	+ 5 16.2	2.220	3.036	12.4	22.0
<b>334944</b>	2004 BU <sub>114</sub>		1 26.6 5°56'	0°6'/26.8	18		<b>188882</b>	2006 WH <sub>13</sub>		1 26.6 147°82'	2°2'/27.6	18	
12 23	8 57.19	+18 19.9	1.501	2.335	16.0	19.4	12 23	9 1.13	+12 5.0	1.383	2.201	18.0	20.4
1 2	8 52.96	+17 57.9	1.431	2.336	12.1	19.1	1 2	8 56.20	+12 16.3	1.310	2.203	13.9	20.1
1 12	8 46.02	+17 42.5	1.383	2.338	7.6	18.9	1 12	8 48.22	+12 44.6	1.257	2.205	9.0	19.8
1 22	8 37.24	+17 31.2	1.360	2.341	2.6	18.6	1 22	8 38.03	+13 26.6	1.229	2.206	3.9	19.5
2 1	8 27.85	+17 21.3	1.364	2.346	2.7	18.6	2 1	8 26.97	+14 16.9	1.227	2.208	3.3	19.5
2 11	8 19.28	+17 10.4	1.395	2.352	7.6	18.9	2 11	8 16.67	+15 8.6	1.253	2.209	8.4	19.8
2 21	8 12.69	+16 56.8	1.450	2.359	12.1	19.2	2 21	8 8.53	+15 56.0	1.303	2.211	13.3	20.1
3 2	8 8.86	+16 39.8	1.528	2.367	15.9	19.5	3 2	8 3.50	+16 35.2	1.375	2.212	17.5	20.3
<b>328269</b>	2008 GC <sub>39</sub>		1 26.6 236°17'	0°9'/27.2	18		<b>176854</b>	2002 TF <sub>250</sub>		1 26.6 46°65'	2°6'/25.4	18	
12 23	8 57.75	+13 56.4	2.040	2.844	13.5	21.5	12 23	9 0.49	+22 58.5	1.529	2.363	15.8	20.1

EPHEMERIDES

1 26.6

1 26.7

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>188778</b>	2005 <i>UE</i> <sub>509</sub>		1 26.6	97°72	2°2/28.0	18	<b>420745</b>	2012 <i>TN</i> <sub>314</sub>		1 26.7	134°01	2°4/24.6	18
12 23	8 57.30	+10 31.8	1.929	2.727	14.4	20.8	12 23	8 56.39	+24 8.2	2.626	3.441	10.5	20.8
1 2	8 52.50	+10 50.7	1.853	2.735	11.1	20.6	1 2	8 51.46	+25 7.6	2.552	3.448	7.8	20.7
1 12	8 45.54	+11 23.6	1.801	2.743	7.3	20.4	1 12	8 44.76	+26 9.7	2.504	3.454	4.9	20.5
1 22	8 37.09	+12 7.9	1.775	2.750	3.4	20.2	1 22	8 36.84	+27 9.9	2.485	3.461	2.6	20.3
2 1	8 28.10	+12 59.4	1.779	2.758	2.8	20.1	2 1	8 28.47	+28 3.3	2.498	3.467	3.5	20.4
2 11	8 19.67	+13 53.1	1.812	2.766	6.4	20.4	2 11	8 20.50	+28 46.5	2.540	3.473	6.2	20.6
2 21	8 12.73	+14 44.3	1.871	2.773	10.2	20.6	2 21	8 13.71	+29 17.6	2.611	3.478	9.0	20.8
3 2	8 8.00	+15 29.6	1.955	2.781	13.5	20.9	3 2	8 8.69	+29 36.4	2.706	3.484	11.5	21.0
<b>56059</b>	1998 <i>XE</i> <sub>64</sub>		1 26.6	51°26	3°2/25.4	18	<b>458284</b>	2010 <i>UQ</i> <sub>64</sub>		1 26.7	69°47	1°4/25.9	18
12 23	9 3.60	+23 57.8	1.233	2.077	18.2	18.3	12 23	9 0.47	+20 49.9	1.703	2.528	14.8	21.6
1 2	8 58.28	+24 32.4	1.180	2.090	13.6	18.0	1 2	8 55.21	+21 16.7	1.634	2.535	11.1	21.4
1 12	8 49.51	+25 11.0	1.147	2.103	8.5	17.8	1 12	8 47.35	+21 49.4	1.589	2.543	6.8	21.1
1 22	8 38.41	+25 45.6	1.139	2.117	3.8	17.6	1 22	8 37.72	+22 22.9	1.570	2.550	2.4	20.9
2 1	8 26.67	+26 8.4	1.156	2.132	5.0	17.7	2 1	8 27.50	+22 51.8	1.579	2.558	3.3	21.0
2 11	8 16.19	+26 15.2	1.200	2.147	9.9	18.0	2 11	8 18.04	+23 11.9	1.617	2.566	7.7	21.2
2 21	8 8.41	+26 6.0	1.266	2.162	14.6	18.3	2 21	8 10.46	+23 21.4	1.681	2.573	11.7	21.5
3 2	8 4.17	+25 43.1	1.353	2.177	18.4	18.6	3 2	8 5.55	+23 20.3	1.767	2.581	15.2	21.7
<b>1356</b>	Nyanza		1 26.6	106°65	2°9/24.6	18	<b>172681</b>	2003 <i>YR</i> <sub>146</sub>		1 26.7	326°97	2°2/24.9	18
12 23	8 57.63	+25 38.9	2.301	3.121	11.6	15.2	12 23	8 55.33	+14 13.7	1.398	2.230	17.1	19.3
1 2	8 52.60	+26 30.1	2.228	3.126	8.7	15.0	1 2	8 52.29	+16 37.1	1.307	2.214	12.9	19.0
1 12	8 45.53	+27 23.1	2.180	3.131	5.5	14.8	1 12	8 46.17	+19 29.8	1.241	2.198	7.9	18.6
1 22	8 37.08	+28 12.5	2.161	3.135	3.1	14.7	1 22	8 37.53	+22 41.0	1.202	2.183	2.8	18.3
2 1	8 28.12	+28 53.4	2.172	3.140	4.1	14.7	2 1	8 27.51	+25 54.2	1.192	2.168	4.8	18.4
2 11	8 19.67	+29 22.3	2.212	3.144	7.0	14.9	2 11	8 17.74	+28 51.8	1.212	2.155	10.3	18.6
2 21	8 12.62	+29 37.9	2.279	3.149	10.1	15.1	2 21	8 9.85	+31 21.5	1.257	2.142	15.4	18.9
3 2	8 7.64	+29 40.6	2.370	3.153	12.8	15.3	3 2	8 5.13	+33 17.7	1.324	2.131	19.7	19.1
<b>323505</b>	2004 <i>QT</i> <sub>25</sub>		1 26.6	112°06	0°8/27.3	18	<b>188224</b>	2002 <i>TC</i> <sub>144</sub>		1 26.7	128°79	0°5/26.9	18
12 23	8 58.03	+13 8.2	2.267	3.063	12.6	20.9	12 23	9 3.48	+14 22.2	1.715	2.520	15.6	20.6
1 2	8 52.70	+13 49.8	2.198	3.081	9.5	20.7	1 2	8 57.33	+15 1.1	1.648	2.537	11.8	20.4
1 12	8 45.50	+14 42.0	2.153	3.099	6.0	20.5	1 12	8 48.60	+15 52.6	1.604	2.553	7.3	20.2
1 22	8 37.05	+15 41.1	2.137	3.116	2.2	20.3	1 22	8 38.12	+16 51.7	1.588	2.568	2.5	19.9
2 1	8 28.19	+16 42.5	2.152	3.133	2.0	20.3	2 1	8 27.05	+17 52.3	1.602	2.583	2.5	20.0
2 11	8 19.85	+17 41.5	2.198	3.150	5.7	20.6	2 11	8 16.76	+18 48.1	1.645	2.596	7.2	20.3
2 21	8 12.84	+18 34.4	2.272	3.165	9.1	20.8	2 21	8 8.36	+19 35.2	1.715	2.609	11.2	20.6
3 2	8 7.76	+19 19.0	2.371	3.181	11.9	21.0	3 2	8 2.62	+20 11.6	1.808	2.621	14.9	20.8
<b>119605</b>	2001 <i>WY</i> <sub>18</sub>		1 26.6	253°97	1°5/25.8	18	<b>318081</b>	2004 <i>GG</i> <sub>20</sub>		1 26.7	271°39	5°9/21.9	17
12 23	8 59.49	+20 55.6	1.848	2.670	14.0	20.2	12 23	9 5.69	+40 12.0	3.022	3.812	9.9	21.1
1 2	8 54.41	+21 26.6	1.768	2.668	10.5	19.9	1 2	8 58.63	+40 57.8	2.916	3.779	8.1	20.9
1 12	8 46.86	+22 3.6	1.712	2.665	6.4	19.7	1 12	8 49.33	+41 36.6	2.836	3.746	6.6	20.7
1 22	8 37.55	+22 41.6	1.682	2.663	2.3	19.4	1 22	8 38.38	+42 2.7	2.784	3.711	5.9	20.6
2 1	8 27.57	+23 15.4	1.682	2.660	3.2	19.5	2 1	8 26.69	+42 11.4	2.763	3.677	6.6	20.6
2 11	8 18.17	+23 40.6	1.711	2.658	7.4	19.7	2 11	8 15.36	+42 0.3	2.771	3.641	8.4	20.7
2 21	8 10.47	+23 55.1	1.766	2.655	11.4	20.0	2 21	8 5.38	+41 30.4	2.805	3.605	10.5	20.8
3 2	8 5.27	+23 58.6	1.843	2.653	14.8	20.2	3 2	7 57.54	+40 44.3	2.863	3.568	12.5	20.9
<b>272878</b>	2006 <i>BP</i> <sub>64</sub>		1 26.6	152°13	0°7/27.1	18	<b>129930</b>	1999 <i>TX</i> <sub>141</sub>		1 26.7	119°96	0°5/26.9	18
12 23	8 57.59	+14 57.8	2.206	3.010	12.6	21.4	12 23	9 1.85	+15 34.2	1.914	2.719	14.2	21.1
1 2	8 52.52	+15 15.4	2.125	3.013	9.6	21.2	1 2	8 55.85	+15 57.9	1.847	2.736	10.7	20.9
1 12	8 45.47	+15 41.9	2.069	3.017	6.0	20.9	1 12	8 47.57	+16 31.0	1.804	2.752	6.7	20.7
1 22	8 37.07	+16 14.3	2.040	3.020	2.2	20.7	1 22	8 37.77	+17 9.7	1.788	2.768	2.3	20.4
2 1	8 28.16	+16 49.1	2.042	3.023	2.1	20.7	2 1	8 27.49	+17 49.4	1.802	2.783	2.3	20.5
2 11	8 19.73	+17 22.6	2.073	3.025	5.9	21.0	2 11	8 17.92	+18 25.6	1.846	2.798	6.6	20.8
2 21	8 12.64	+17 51.8	2.132	3.028	9.5	21.2	2 21	8 10.02	+18 55.4	1.918	2.812	10.4	21.0
3 2	8 7.55	+18 14.9	2.216	3.030	12.5	21.4	3 2	8 4.51	+19 17.3	2.013	2.825	13.7	21.3
<b>467301</b>	2016 <i>EO</i> <sub>199</sub>		1 26.7	119°25	1°2/27.4	18	<b>312970</b>	1998 <i>SZ</i> <sub>34</sub>		1 26.7	64°16	9°1/23.4	17
12 23	8 57.00	+12 47.8	1.987	2.791	13.8	21.4	12 23	9 12.79	+40 22.3	1.531	2.347	16.7	20.6
1 2	8 52.29	+13 19.5	1.908	2.795	10.5	21.2	1 2	9 4.81	+41 18.5	1.493	2.372	13.4	20.4
1 12	8 45.44	+14 3.7	1.852	2.799	6.7	21.0	1 12	8 53.27	+41 59.6	1.478	2.398	10.6	20.3
1 22	8 37.09	+14 57.1	1.824	2.803	2.6	20.7	1 22	8 39.57	+42 15.8	1.488	2.424	9.1	20.3
2 1	8 28.16	+15 54.9	1.826	2.807	2.3	20.7	2 1	8 25.65	+42 1.2	1.524	2.450	9.9	20.4
2 11	8 19.74	+16 51.8	1.857	2.810	6.3	21.0	2 11	8 13.46	+41 16.6	1.585	2.476	12.3	20.6
2 21	8 12.77	+17 43.6	1.915	2.814	10.2	21.2	2 21	8 4.37	+40 8.4	1.670	2.502	15.0	20.8
3 2	8 7.96	+18 27.2	1.997	2.818	13.5	21.4	3 2	7 59.02	+38 44.4	1.774	2.528	17.5	21.1
<b>243576</b>	1996 <i>VB</i> <sub>39</sub>		1 26.7	110°98	4°2/23.6	18	<b>192738</b>	1999 <i>TU</i> <sub>212</sub>		1 26.7	208°23	3°6/24.3	18
12 23	9 0.38	+31 35.5	2.542	3.356	10.9	21.0	12 23	9 1.38	+28 50.4	2.410	3.223	11.4	20.7
1 2	8 54.45	+32 26.3	2.482	3.371	8.3	20.9	1 2	8 55.42	+29 30.3	2.326	3.218	8.6	20.5
1 12	8 46.57	+33 13.8	2.447	3.387	5.8	20.8	1 12	8 47.32	+30 9.2	2.268	3.213	5.8	20.3
1 22	8 37.40	+33 52.7	2.441	3.401	4.3	20.7	1 22	8 37.72	+30 41.9	2.238	3.207	3.7	20.1
2 1	8 27.85	+34 18.9	2.465	3.416	5.1	20.8	2 1	8 27.55	+31 3.9	2.239	3.201	4.6	20.2
2 11	8 18.91	+34 30.0	2.519	3.430	7.4	20.9	2 11	8 17.87	+31 12.2	2.270	3.194	7.3	20.3
2 21	8 11.40	+34 26.2	2.599	3.444	9.8	21.1	2 21	8 9.63	+31 6.7	2.327	3.187	10.3	20.5
3 2	8 5.95	+34 9.4	2.703	3.458	12.1	21.3	3 2	8 3.55	+30 48.6	2.409	3.179	12.9	20.7
<b>286198</b>	2001 <i>UD</i> <sub>68</sub>		1 26.7	115°77	4°9/24.2	17	<b>31175</b>	Erikafuchs		1 26.7	56°15	1°8/27.3	18
12 23	9 3.94	+27 30.7	1.502	2.336	16.0	21.0	12 23	9 3.05					

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>286052</b>	2001 SB <sub>231</sub>		1 26.7 182°67	3°6/28.5	18		<b>25070</b>	1998 QY <sub>90</sub>		1 26.7 129°91	4°5/29.7	18	R
12 23	9 1.76	+ 8 34.0	1.799	2.587	15.7	21.6	12 23	8 58.08	+ 3 39.7	1.949	2.719	15.3	19.0
1 2	8 56.06	+ 8 24.9	1.715	2.588	12.3	21.4	1 2	8 53.07	+ 3 50.4	1.871	2.729	12.2	18.8
1 12	8 47.89	+ 8 31.0	1.654	2.589	8.5	21.1	1 12	8 45.92	+ 4 20.2	1.816	2.738	8.8	18.6
1 22	8 37.95	+ 8 51.1	1.619	2.588	4.7	20.9	1 22	8 37.30	+ 5 8.2	1.787	2.747	5.6	18.4
2 1	8 27.30	+ 9 22.5	1.612	2.587	4.0	20.9	2 1	8 28.13	+ 6 10.8	1.787	2.756	4.6	18.4
2 11	8 17.20	+10 0.9	1.635	2.586	7.3	21.1	2 11	8 19.50	+ 7 22.6	1.815	2.764	7.0	18.5
2 21	8 8.76	+10 41.8	1.684	2.584	11.3	21.3	2 21	8 12.32	+ 8 37.4	1.871	2.772	10.3	18.7
3 2	8 2.82	+11 20.9	1.757	2.581	14.9	21.5	3 2	8 7.32	+ 9 49.8	1.952	2.779	13.5	19.0
<b>327411</b>	2005 VL <sub>75</sub>		1 26.7 133°53	5°7/30.2	18		<b>350756</b>	2002 AF <sub>43</sub>		1 26.7 340°84	0°8/27.0	18	
12 23	8 58.55	+ 1 15.0	2.200	2.949	14.4	21.0	12 23	8 54.83	+14 42.7	1.160	2.006	19.0	20.5
1 2	8 53.16	+ 0 44.7	2.121	2.959	11.8	20.8	1 2	8 52.13	+15 5.1	1.084	1.994	14.5	20.2
1 12	8 45.85	+ 0 31.1	2.065	2.969	9.0	20.6	1 12	8 46.10	+15 45.6	1.028	1.984	9.2	19.9
1 22	8 37.24	+ 0 34.8	2.035	2.978	6.5	20.5	1 22	8 37.53	+16 39.7	0.993	1.974	3.3	19.5
2 1	8 28.16	+ 0 55.0	2.033	2.987	5.8	20.5	2 1	8 27.82	+17 40.2	0.984	1.966	3.2	19.5
2 11	8 19.57	+ 1 28.7	2.061	2.995	7.3	20.6	2 11	8 18.81	+18 38.4	0.999	1.959	9.3	19.8
2 21	8 12.29	+ 2 11.7	2.115	3.003	9.9	20.8	2 21	8 12.12	+19 27.5	1.036	1.953	14.9	20.1
3 2	8 6.97	+ 2 59.1	2.194	3.011	12.6	20.9	3 2	8 8.86	+20 3.3	1.092	1.948	19.7	20.3
<b>241709</b>	2000 SQ <sub>360</sub>		1 26.7 194°91	5°1/22.6	18		<b>347104</b>	2010 HJ <sub>103</sub>		1 26.7 327°02	1°8/27.8	18	
12 23	9 2.56	+33 35.8	2.545	3.355	11.0	21.0	12 23	8 55.42	+12 5.0	2.243	3.041	12.6	21.0
1 2	8 56.36	+34 45.2	2.467	3.352	8.6	20.9	1 2	8 50.93	+12 11.1	2.156	3.038	9.7	20.8
1 12	8 47.95	+35 51.3	2.416	3.348	6.3	20.7	1 12	8 44.56	+12 27.6	2.093	3.036	6.3	20.6
1 22	8 37.95	+36 47.8	2.393	3.344	5.1	20.6	1 22	8 36.86	+12 52.7	2.057	3.033	2.9	20.4
2 1	8 27.31	+37 29.1	2.401	3.340	6.1	20.7	2 1	8 28.65	+13 23.6	2.052	3.031	2.4	20.3
2 11	8 17.13	+37 52.0	2.438	3.334	8.3	20.8	2 11	8 20.85	+13 56.6	2.075	3.029	5.8	20.6
2 21	8 8.40	+37 56.4	2.501	3.328	10.8	21.0	2 21	8 14.29	+14 28.7	2.126	3.027	9.2	20.8
3 2	8 1.87	+37 44.5	2.587	3.321	13.0	21.1	3 2	8 9.62	+14 57.0	2.202	3.025	12.3	21.0
<b>427033</b>	2014 SV <sub>323</sub>		1 26.7 341°27	6°2/24.9	18		<b>301687</b>	2010 FE <sub>86</sub>		1 26.7 225°84	2°8/24.4	17	
12 23	9 1.36	+32 39.1	1.324	2.170	17.0	18.7	12 23	8 58.65	+28 22.0	3.127	3.934	9.2	22.3
1 2	8 57.10	+32 45.8	1.240	2.147	13.3	18.4	1 2	8 52.99	+28 55.7	3.032	3.922	7.0	22.1
1 12	8 49.16	+32 44.7	1.177	2.126	9.3	18.1	1 12	8 45.67	+29 28.7	2.964	3.909	4.6	21.9
1 22	8 38.48	+32 27.5	1.137	2.106	6.4	17.9	1 22	8 37.21	+29 57.4	2.926	3.896	2.9	21.8
2 1	8 26.70	+31 47.7	1.122	2.088	7.4	17.9	2 1	8 28.27	+30 18.2	2.920	3.882	3.6	21.8
2 11	8 15.88	+30 43.6	1.133	2.071	11.4	18.1	2 11	8 19.64	+30 29.0	2.944	3.868	5.9	21.9
2 21	8 7.70	+29 19.3	1.166	2.057	15.9	18.3	2 21	8 12.05	+30 29.0	2.996	3.853	8.3	22.1
3 2	8 3.25	+27 41.3	1.218	2.044	20.0	18.5	3 2	8 6.06	+30 19.0	3.074	3.837	10.6	22.2
<b>4232</b>	Aparicio		1 26.7 22°16	18°1/ 8.9	18	R	<b>341227</b>	2007 RM <sub>146</sub>		1 26.7 75°14	6°0/31.8	18	
12 23	8 54.49	-19 17.4	1.067	1.778	28.6	16.4	12 23	8 55.19	- 3 2.8	2.282	3.013	14.4	20.4
1 2	8 51.94	-20 18.7	1.006	1.781	26.2	16.2	1 2	8 50.55	- 2 59.0	2.213	3.035	12.0	20.3
1 12	8 45.98	-20 28.3	0.956	1.784	23.4	16.0	1 12	8 44.19	- 2 34.7	2.167	3.056	9.3	20.1
1 22	8 37.46	-19 35.6	0.918	1.788	20.7	15.8	1 22	8 36.71	- 1 50.2	2.145	3.078	7.0	20.0
2 1	8 27.86	-17 35.8	0.898	1.793	18.7	15.7	2 1	8 28.88	- 0 47.7	2.152	3.099	6.0	20.0
2 11	8 19.07	-14 36.0	0.897	1.799	18.1	15.7	2 11	8 21.55	+ 0 28.0	2.188	3.120	7.1	20.1
2 21	8 12.72	-10 54.1	0.916	1.805	19.4	15.8	2 21	8 15.45	+ 1 51.1	2.251	3.142	9.3	20.3
3 2	8 9.94	- 6 53.8	0.955	1.812	21.8	15.9	3 2	8 11.13	+ 3 15.7	2.341	3.162	11.7	20.5
<b>160309</b>	2003 GT <sub>16</sub>		1 26.7 237°42	2°0/28.1	18		<b>202596</b>	2006 HQ <sub>16</sub>		1 26.7 6°01	5°8/23.3	18	
12 23	8 56.47	+ 9 7.6	2.005	2.798	14.1	19.9	12 23	9 0.67	+32 29.0	1.893	2.720	13.5	20.1
1 2	8 52.00	+ 9 52.6	1.914	2.792	11.0	19.7	1 2	8 55.48	+33 29.1	1.824	2.720	10.4	19.9
1 12	8 45.36	+10 54.6	1.846	2.787	7.2	19.5	1 12	8 47.62	+34 25.7	1.780	2.721	7.5	19.8
1 22	8 37.14	+12 10.6	1.806	2.781	3.4	19.2	1 22	8 37.90	+35 11.2	1.762	2.721	5.8	19.7
2 1	8 28.23	+13 35.3	1.795	2.775	2.7	19.2	2 1	8 27.51	+35 39.1	1.772	2.722	6.9	19.7
2 11	8 19.68	+15 2.2	1.815	2.769	6.4	19.4	2 11	8 17.85	+35 46.1	1.810	2.723	9.6	19.9
2 21	8 12.49	+16 25.1	1.862	2.763	10.3	19.6	2 21	8 10.10	+35 32.8	1.872	2.724	12.7	20.1
3 2	8 7.43	+17 39.3	1.934	2.757	13.8	19.8	3 2	8 5.08	+35 2.4	1.955	2.726	15.5	20.3
<b>87791</b>	2000 SJ <sub>121</sub>		1 26.7 74°36	1°0/27.3	18		<b>467118</b>	2016 EX <sub>72</sub>		1 26.7 11°71	1°7/27.5	18	
12 23	8 58.38	+13 23.2	1.845	2.653	14.6	19.3	12 23	8 54.50	+12 30.2	1.271	2.107	18.3	20.4
1 2	8 53.33	+13 53.4	1.783	2.672	11.0	19.1	1 2	8 51.39	+12 53.5	1.206	2.110	14.0	20.1
1 12	8 46.06	+14 35.8	1.743	2.691	6.9	18.9	1 12	8 45.34	+13 35.3	1.162	2.114	9.0	19.9
1 22	8 37.32	+15 26.3	1.731	2.710	2.6	18.6	1 22	8 37.20	+14 31.5	1.140	2.120	3.6	19.6
2 1	8 28.13	+16 19.9	1.747	2.729	2.3	18.7	2 1	8 28.30	+15 35.2	1.145	2.126	3.1	19.5
2 11	8 19.63	+17 11.4	1.793	2.747	6.5	19.0	2 11	8 20.20	+16 38.5	1.174	2.134	8.3	19.9
2 21	8 12.76	+17 56.7	1.866	2.766	10.4	19.2	2 21	8 14.22	+17 34.7	1.228	2.143	13.2	20.2
3 2	8 8.20	+18 33.4	1.963	2.784	13.6	19.5	3 2	8 11.25	+18 19.6	1.302	2.153	17.4	20.5
<b>126689</b>	2002 CO <sub>224</sub>		1 26.7 213°67	0°6/27.1	18		<b>460669</b>	2014 UC <sub>157</sub>		1 26.7 47°76	0°7/27.1	18	
12 23	8 57.66	+15 10.1	2.019	2.828	13.5	20.4	12 23	8 58.84	+15 49.1	1.751	2.568	14.9	21.3
1 2	8 52.82	+15 30.5	1.936	2.827	10.2	20.1	1 2	8 53.90	+15 56.4	1.679	2.574	11.3	21.1
1 12	8 45.81	+16 0.6	1.876	2.826	6.4	19.9	1 12	8 46.54	+16 13.3	1.630	2.581	7.0	20.8
1 22	8 37.28	+16 37.5	1.844	2.824	2.3	19.6	1 22	8 37.53	+16 36.6	1.608	2.588	2.5	20.6
2 1	8 28.14	+17 16.8	1.842	2.823	2.2	19.6	2 1	8 27.96	+17 2.3	1.613	2.595	2.5	20.6
2 11	8 19.49	+17 54.3	1.868	2.821	6.4	19.9	2 11	8 19.06	+17 26.2	1.647	2.602	6.9	20.9
2 21	8 12.28	+18 26.8	1.922	2.820	10.2	20.1	2 21	8 11.89	+17 45.5	1.708	2.609	11.0	21.1
3 2	8 7.26	+18 52.0	2.000	2.818	13.5	20.3	3 2	8 7.19	+17 58.3	1.791	2.617	14.5	21.4
<b>310427</b>	1999 VA <sub>186</sub>		1 26.7 67°72	1°0/26.2	17		<b>10727</b>	Akitsuushima		1 26.7 332°42	0°4/26.4	18	
12 23	9 2.93	+18 30.8	1.488	2.313	16.6	20.8	12 23	8 57.64	+19 19.0	2.251	3.063	12.1	17.4</

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>363162</b>	2001 <i>SL</i> <sub>243</sub>		1 26.7 157°90	5°3/30.6	18		<b>164166</b>	2004 <i>AQ</i> <sub>5</sub>		1 26.7 19°40	0°4/26.5	18	
12 23	8 57.77	- 0 7.7	2.423	3.161	13.5	22.0	12 23	8 59.26	+19 50.6	2.027	2.843	13.1	19.2
1 2	8 52.47	- 0 15.2	2.338	3.169	11.1	21.8	1 2	8 53.96	+19 48.0	1.949	2.845	9.9	19.0
1 12	8 45.41	- 0 5.5	2.277	3.176	8.5	21.7	1 12	8 46.48	+19 49.7	1.895	2.847	6.1	18.7
1 22	8 37.14	+ 0 21.5	2.241	3.182	6.2	21.5	1 22	8 37.52	+19 52.9	1.869	2.850	2.0	18.5
2 1	8 28.41	+ 1 4.3	2.235	3.188	5.4	21.5	2 1	8 28.06	+19 54.4	1.872	2.853	2.4	18.5
2 11	8 20.08	+ 1 59.2	2.258	3.193	6.7	21.6	2 11	8 19.21	+19 51.9	1.905	2.856	6.4	18.8
2 21	8 12.92	+ 3 1.6	2.310	3.198	9.2	21.8	2 21	8 11.92	+19 44.3	1.965	2.860	10.2	19.0
3 2	8 7.52	+ 4 6.7	2.388	3.202	11.7	21.9	3 2	8 6.86	+19 31.3	2.048	2.863	13.4	19.2
<b>204566</b>	2005 <i>EL</i> <sub>299</sub>		1 26.7 118°60	0°5/27.0	18		<b>34142</b>	Sachinkonan		1 26.7 173°69	0°2/26.8	18	
12 23	8 57.20	+15 13.8	2.423	3.223	11.8	21.7	12 23	8 56.08	+16 35.5	2.811	3.610	10.3	20.5
1 2	8 52.05	+15 38.9	2.348	3.235	8.8	21.5	1 2	8 51.07	+16 56.0	2.726	3.612	7.8	20.3
1 12	8 45.13	+16 11.8	2.299	3.247	5.5	21.3	1 12	8 44.50	+17 22.6	2.666	3.614	4.8	20.1
1 22	8 37.04	+16 49.8	2.279	3.259	1.9	21.1	1 22	8 36.85	+17 52.7	2.635	3.615	1.6	19.9
2 1	8 28.54	+17 29.1	2.289	3.270	1.9	21.1	2 1	8 28.81	+18 23.3	2.635	3.616	1.7	19.9
2 11	8 20.52	+18 6.3	2.330	3.282	5.4	21.4	2 11	8 21.12	+18 51.8	2.667	3.617	4.9	20.1
2 21	8 13.74	+18 38.7	2.399	3.293	8.7	21.6	2 21	8 14.46	+19 16.0	2.727	3.617	7.9	20.3
3 2	8 8.77	+19 4.6	2.494	3.303	11.4	21.8	3 2	8 9.37	+19 34.6	2.813	3.617	10.4	20.5
<b>304995</b>	2007 <i>TS</i> <sub>248</sub>		1 26.7 113°70	2°1/25.4	18		<b>155569</b>	1999 <i>WU</i> <sub>17</sub>		1 26.7 222°93	4°5/23.7	18	
12 23	9 1.89	+20 29.6	1.734	2.555	14.8	21.5	12 23	9 1.19	+30 29.0	2.259	3.076	11.9	20.4
1 2	8 56.27	+21 34.0	1.671	2.570	11.0	21.3	1 2	8 55.52	+31 22.1	2.177	3.070	9.1	20.2
1 12	8 48.05	+22 46.0	1.631	2.584	6.7	21.0	1 12	8 47.53	+32 13.8	2.121	3.063	6.3	20.0
1 22	8 38.04	+23 58.6	1.619	2.598	2.6	20.8	1 22	8 37.90	+32 57.8	2.093	3.057	4.5	19.9
2 1	8 27.41	+25 4.2	1.636	2.612	3.8	20.9	2 1	8 27.61	+33 28.6	2.094	3.049	5.5	20.0
2 11	8 17.54	+25 57.1	1.682	2.624	7.9	21.2	2 11	8 17.83	+33 42.8	2.125	3.042	8.2	20.1
2 21	8 9.55	+26 34.5	1.754	2.637	11.9	21.4	2 21	8 9.60	+33 40.3	2.181	3.034	11.2	20.3
3 2	8 4.24	+26 56.4	1.849	2.649	15.2	21.7	3 2	8 3.69	+33 22.7	2.261	3.026	13.8	20.5
<b>107723</b>	2001 <i>FV</i> <sub>24</sub>		1 26.7 253°04	2°9/28.0	18		<b>350263</b>	2012 <i>TO</i> <sub>186</sub>		1 26.7 51°67	2°5/25.6	17	
12 23	8 59.96	+11 4.6	1.782	2.582	15.3	19.9	12 23	9 2.74	+22 1.7	1.256	2.097	18.1	20.6
1 2	8 54.86	+10 51.7	1.691	2.573	12.0	19.6	1 2	8 57.75	+22 39.0	1.196	2.105	13.6	20.4
1 12	8 47.25	+10 51.4	1.624	2.564	8.0	19.4	1 12	8 49.34	+23 23.3	1.156	2.113	8.4	20.1
1 22	8 37.82	+11 2.7	1.582	2.555	4.1	19.1	1 22	8 38.54	+24 7.0	1.141	2.121	3.3	19.8
2 1	8 27.60	+11 23.0	1.568	2.546	3.5	19.0	2 1	8 26.95	+24 41.9	1.152	2.130	4.5	19.9
2 11	8 17.86	+11 48.6	1.583	2.537	7.3	19.3	2 11	8 16.46	+25 2.6	1.189	2.139	9.7	20.3
2 21	8 9.73	+12 15.5	1.625	2.527	11.5	19.5	2 21	8 8.54	+25 7.6	1.250	2.148	14.5	20.6
3 2	8 4.10	+12 40.6	1.690	2.518	15.2	19.7	3 2	8 4.11	+24 58.1	1.330	2.157	18.6	20.8
<b>278509</b>	2008 <i>CX</i> <sub>12</sub>		1 26.7 55°41	1°7/25.8	18		<b>309465</b>	2007 <i>VC</i> <sub>28</sub>		1 26.7 14°62	2°0/25.8	18	
12 23	8 59.45	+20 17.2	1.660	2.488	15.0	20.6	12 23	8 55.60	+19 50.6	1.099	1.956	19.0	19.5
1 2	8 54.62	+21 0.8	1.588	2.491	11.3	20.4	1 2	8 52.67	+20 35.6	1.044	1.961	14.2	19.3
1 12	8 47.13	+21 52.3	1.540	2.494	6.9	20.1	1 12	8 46.33	+21 32.2	1.008	1.968	8.7	19.0
1 22	8 37.77	+22 45.7	1.518	2.498	2.5	19.9	1 22	8 37.59	+22 32.3	0.996	1.977	3.1	18.7
2 1	8 27.71	+23 34.4	1.524	2.502	3.5	19.9	2 1	8 28.04	+23 26.6	1.007	1.987	4.3	18.8
2 11	8 18.34	+24 13.0	1.558	2.506	8.0	20.2	2 11	8 19.56	+24 7.5	1.043	1.998	9.9	19.1
2 21	8 10.84	+24 38.6	1.618	2.510	12.2	20.5	2 21	8 13.64	+24 31.3	1.101	2.011	15.0	19.5
3 2	8 6.06	+24 50.9	1.699	2.514	15.7	20.7	3 2	8 11.18	+24 38.0	1.178	2.025	19.2	19.8
<b>180019</b>	2003 <i>AR</i> <sub>10</sub>		1 26.7 45°54	4°1/28.9	18		<b>355945</b>	2008 <i>YY</i> <sub>104</sub>		1 26.7 63°81	0°8/26.3	18	
12 23	8 57.69	+ 7 32.8	1.477	2.282	17.7	19.7	12 23	8 59.91	+16 37.4	1.401	2.231	17.2	20.6
1 2	8 53.26	+ 7 30.5	1.416	2.297	13.9	19.5	1 2	8 55.23	+17 34.0	1.341	2.245	12.9	20.4
1 12	8 46.23	+ 7 47.8	1.376	2.314	9.6	19.2	1 12	8 47.61	+18 44.1	1.304	2.258	7.9	20.1
1 22	8 37.45	+ 8 22.8	1.361	2.330	5.4	19.0	1 22	8 37.96	+20 0.7	1.291	2.272	2.5	19.8
2 1	8 28.13	+ 9 11.4	1.372	2.347	4.4	19.0	2 1	8 27.63	+21 15.1	1.306	2.286	3.2	19.9
2 11	8 19.63	+10 7.4	1.410	2.365	7.8	19.3	2 11	8 18.18	+22 19.5	1.348	2.301	8.4	20.2
2 21	8 13.05	+11 4.3	1.473	2.383	11.9	19.5	2 21	8 10.91	+23 9.4	1.415	2.315	13.0	20.5
3 2	8 9.15	+11 57.0	1.558	2.401	15.5	19.8	3 2	8 6.65	+23 43.4	1.504	2.329	16.8	20.8
<b>40338</b>	1999 <i>NB</i> <sub>8</sub>		1 26.7 92°32	1°0/27.2	18		<b>204247</b>	2004 <i>DC</i> <sub>58</sub>		1 26.7 286°96	0°9/26.1	18	
12 23	9 1.96	+14 4.3	1.692	2.500	15.7	18.7	12 23	8 56.55	+19 38.3	2.244	3.060	12.1	20.7
1 2	8 56.15	+14 29.4	1.632	2.522	11.8	18.5	1 2	8 51.94	+20 6.8	2.152	3.048	9.1	20.5
1 12	8 47.86	+15 6.5	1.596	2.544	7.4	18.3	1 12	8 45.29	+20 41.5	2.084	3.037	5.6	20.3
1 22	8 37.95	+15 51.4	1.586	2.566	2.7	18.0	1 22	8 37.19	+21 18.6	2.044	3.025	1.9	20.0
2 1	8 27.58	+16 38.8	1.606	2.587	2.5	18.1	2 1	8 28.46	+21 53.9	2.035	3.014	2.5	20.0
2 11	8 18.05	+17 23.3	1.654	2.607	7.0	18.4	2 11	8 20.11	+22 23.6	2.054	3.002	6.3	20.2
2 21	8 10.40	+18 1.3	1.729	2.628	11.1	18.7	2 21	8 13.04	+22 45.3	2.101	2.991	9.9	20.4
3 2	8 5.34	+18 30.6	1.827	2.647	14.5	18.9	3 2	8 7.99	+22 58.0	2.172	2.980	13.0	20.6
<b>495237</b>	2013 <i>JY</i> <sub>12</sub>		1 26.7 180°12	9°2/ 2.9	17		<b>164167</b>	2004 <i>AJ</i> <sub>7</sub>		1 26.7 47°13	4°1/29.1	18	
12 23	8 58.87	-14 56.1	2.847	3.473	13.9	22.7	12 23	8 56.21	+ 6 25.7	2.051	2.832	14.2	19.8
1 2	8 53.17	-15 51.4	2.757	3.475	12.5	22.5	1 2	8 51.61	+ 6 10.7	1.972	2.838	11.3	19.6
1 12	8 45.81	-16 26.6	2.687	3.477	11.0	22.4	1 12	8 45.03	+ 6 10.3	1.916	2.844	8.0	19.4
1 22	8 37.29	-16 38.9	2.640	3.477	9.8	22.4	1 22	8 37.08	+ 6 24.1	1.887	2.850	5.0	19.3
2 1	8 28.27	-16 26.7	2.619	3.477	9.2	22.3	2 1	8 28.63	+ 6 50.2	1.886	2.856	4.2	19.2
2 11	8 19.54	-15 51.6	2.625	3.475	9.5	22.3	2 11	8 20.68	+ 7 25.0	1.913	2.862	6.6	19.4
2 21	8 11.82	-14 57.0	2.656	3.473	10.5	22.4	2 21	8 14.09	+ 8 4.4	1.967	2.868	9.8	19.6
3 2	8 5.70	-13 48.3	2.711	3.470	11.9	22.5	3 2	8 9.53	+ 8 44.3	2.046	2.875	12.9	19.8
<b>53694</b>	2000 <i>DV</i> <sub>85</sub>		1 26.7 196°73	2°1/25.3	18		<b>315588</b>	2008 <i>CJ</i> <sub>103</sub>		1 26.7 10°08	0°8/26.9	18	
12 23	9 1.02	+22 57.4	2.295	3.107	12.0	19.9	12 23						

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>491181</b>	2011 <i>UA</i> <sub>51</sub>		1 26.7 121°76	1.7°/25.7	18		<b>109852</b>	2001 <i>RR</i> <sub>132</sub>		1 26.7 216°52	3°9/23.9	17	
12 23	9 3.49	+20 55.4	1.844	2.659	14.3	22.1	12 23	8 59.43	+30 11.6	2.501	3.317	10.9	19.8
1 2	8 57.28	+21 38.5	1.779	2.676	10.6	21.9	1 2	8 53.98	+30 57.8	2.421	3.313	8.4	19.6
1 12	8 48.59	+22 27.2	1.739	2.692	6.5	21.6	1 12	8 46.48	+31 42.4	2.366	3.309	5.7	19.4
1 22	8 38.24	+23 15.8	1.727	2.707	2.4	21.4	1 22	8 37.57	+32 20.2	2.340	3.305	4.0	19.3
2 1	8 27.36	+23 58.4	1.745	2.722	3.3	21.5	2 1	8 28.12	+32 46.6	2.344	3.300	4.9	19.4
2 11	8 17.26	+24 30.6	1.792	2.736	7.4	21.8	2 11	8 19.14	+32 58.8	2.377	3.295	7.4	19.5
2 21	8 9.00	+24 50.5	1.866	2.750	11.2	22.0	2 21	8 11.52	+32 56.5	2.437	3.290	10.1	19.7
3 2	8 3.32	+24 58.4	1.963	2.763	14.4	22.3	3 2	8 5.95	+32 41.0	2.520	3.285	12.6	19.8
<b>190184</b>	2005 <i>VT</i> <sub>78</sub>		1 26.7 55°19	3°9/28.1	18		<b>258180</b>	2001 <i>SY</i> <sub>170</sub>		1 26.7 57°37	1°4/27.4	18	
12 23	9 4.15	+11 8.0	1.193	2.014	20.2	19.3	12 23	9 1.19	+14 16.1	1.554	2.370	16.5	20.3
1 2	8 58.43	+10 34.2	1.144	2.037	15.6	19.1	1 2	8 55.69	+14 18.9	1.501	2.394	12.5	20.1
1 12	8 49.51	+10 17.6	1.115	2.060	10.4	18.9	1 12	8 47.63	+14 33.5	1.470	2.419	7.9	19.9
1 22	8 38.54	+10 16.9	1.110	2.084	5.3	18.7	1 22	8 37.94	+14 56.5	1.464	2.443	3.1	19.7
2 1	8 27.11	+10 28.8	1.130	2.108	4.5	18.7	2 1	8 27.85	+15 23.4	1.487	2.468	2.7	19.7
2 11	8 16.96	+10 48.3	1.176	2.132	8.9	19.0	2 11	8 18.71	+15 49.9	1.537	2.493	7.2	20.0
2 21	8 9.37	+11 10.6	1.246	2.157	13.5	19.3	2 21	8 11.58	+16 12.5	1.614	2.518	11.4	20.3
3 2	8 5.11	+11 31.4	1.337	2.181	17.5	19.6	3 2	8 7.14	+16 29.1	1.713	2.543	14.9	20.6
<b>257307</b>	2009 <i>HK</i> <sub>75</sub>		1 26.7 241°58	0°9/26.2	18		<b>46383</b>	2001 <i>XC</i> <sub>114</sub>		1 26.7 189°05	4°3/24.3	18	
12 23	9 0.28	+18 40.8	1.948	2.762	13.7	21.7	12 23	9 4.10	+27 2.5	1.745	2.570	14.5	19.2
1 2	8 55.09	+19 18.3	1.854	2.749	10.3	21.5	1 2	8 58.24	+28 3.8	1.670	2.569	11.0	19.0
1 12	8 47.43	+20 4.4	1.784	2.736	6.4	21.2	1 12	8 49.48	+29 7.0	1.620	2.569	7.2	18.7
1 22	8 37.94	+20 54.7	1.742	2.723	2.1	20.9	1 22	8 38.63	+30 4.3	1.596	2.567	4.4	18.6
2 1	8 27.62	+21 43.4	1.730	2.709	2.8	20.9	2 1	8 26.96	+30 47.8	1.601	2.565	5.6	18.6
2 11	8 17.69	+22 25.6	1.746	2.695	7.2	21.2	2 11	8 15.99	+31 12.9	1.634	2.563	9.3	18.8
2 21	8 9.30	+22 57.9	1.790	2.680	11.3	21.4	2 21	8 7.04	+31 18.7	1.692	2.560	13.0	19.0
3 2	8 3.31	+23 18.9	1.857	2.665	14.9	21.6	3 2	8 1.01	+31 7.5	1.772	2.557	16.3	19.3
<b>456270</b>	2006 <i>RK</i> <sub>49</sub>		1 26.7 35°16	9°2/ 1.4	18		<b>167052</b>	2003 <i>QB</i> <sub>67</sub>		1 26.7 93°10	0°3/26.6	18	
12 23	8 55.46	- 4 29.3	1.505	2.261	19.6	21.3	12 23	9 2.07	+16 41.6	1.673	2.488	15.5	20.9
1 2	8 51.65	- 5 0.4	1.438	2.271	16.6	21.2	1 2	8 56.34	+17 21.1	1.613	2.509	11.6	20.7
1 12	8 45.32	- 5 2.1	1.389	2.281	13.4	21.0	1 12	8 48.07	+18 10.9	1.577	2.529	7.1	20.5
1 22	8 37.22	- 4 32.0	1.362	2.291	10.5	20.8	1 22	8 38.10	+19 5.5	1.568	2.549	2.3	20.3
2 1	8 28.49	- 3 31.4	1.359	2.303	9.2	20.8	2 1	8 27.64	+19 58.6	1.588	2.569	2.7	20.3
2 11	8 20.43	- 2 6.5	1.381	2.314	10.3	20.9	2 11	8 18.01	+20 44.8	1.637	2.588	7.3	20.7
2 21	8 14.16	- 0 26.7	1.428	2.326	13.0	21.1	2 21	8 10.31	+21 20.8	1.712	2.607	11.4	21.0
3 2	8 10.46	+ 1 18.0	1.497	2.339	16.0	21.3	3 2	8 5.26	+21 45.5	1.810	2.625	14.8	21.2
<b>328843</b>	2009 <i>WN</i> <sub>75</sub>		1 26.7 162°72	2°8/24.6	18		<b>499963</b>	2011 <i>JT</i> <sub>30</sub>		1 26.7 209°90	2°5/24.8	17	
12 23	8 59.49	+24 53.0	2.303	3.119	11.8	20.9	12 23	8 57.96	+24 44.7	2.499	3.314	11.0	21.6
1 2	8 54.08	+25 51.0	2.227	3.123	8.8	20.7	1 2	8 52.83	+25 31.7	2.414	3.310	8.2	21.4
1 12	8 46.57	+26 51.6	2.177	3.127	5.6	20.5	1 12	8 45.77	+26 21.3	2.356	3.306	5.2	21.2
1 22	8 37.60	+27 49.3	2.156	3.131	3.0	20.4	1 22	8 37.36	+27 8.6	2.326	3.301	2.7	21.0
2 1	8 28.07	+28 38.7	2.165	3.134	4.0	20.4	2 1	8 28.40	+27 49.0	2.327	3.297	3.6	21.1
2 11	8 19.03	+29 15.8	2.204	3.136	7.1	20.6	2 11	8 19.84	+28 19.2	2.358	3.292	6.6	21.2
2 21	8 11.39	+29 39.0	2.271	3.138	10.2	20.8	2 21	8 12.52	+28 37.5	2.416	3.286	9.6	21.4
3 2	8 5.86	+29 48.8	2.361	3.140	12.9	21.0	3 2	8 7.11	+28 43.9	2.499	3.281	12.2	21.6
<b>4280</b>	Simonenko		1 26.7 74°02	3°1/25.1	18		<b>176984</b>	2002 <i>YC</i> <sub>19</sub>		1 26.7 128°92	1°1/27.3	18	
12 23	9 1.73	+23 37.7	1.535	2.367	15.8	17.0	12 23	9 1.35	+14 31.6	2.108	2.906	13.4	20.1
1 2	8 56.65	+24 27.2	1.464	2.368	11.9	16.7	1 2	8 55.36	+14 38.3	2.036	2.920	10.1	19.9
1 12	8 48.55	+25 22.1	1.415	2.370	7.4	16.5	1 12	8 47.29	+14 53.8	1.988	2.933	6.4	19.7
1 22	8 38.31	+26 14.8	1.393	2.371	3.5	16.2	1 22	8 37.83	+15 15.3	1.967	2.946	2.5	19.5
2 1	8 27.26	+26 57.8	1.398	2.372	4.8	16.3	2 1	8 27.93	+15 39.6	1.978	2.958	2.2	19.5
2 11	8 16.99	+27 25.5	1.431	2.373	9.1	16.6	2 11	8 18.64	+16 3.4	2.018	2.970	6.1	19.8
2 21	8 8.86	+27 36.3	1.488	2.374	13.4	16.8	2 21	8 10.86	+16 23.9	2.086	2.981	9.7	20.0
3 2	8 3.78	+27 31.5	1.566	2.375	17.1	17.1	3 2	8 5.23	+16 39.6	2.179	2.992	12.8	20.2
<b>292278</b>	2006 <i>ST</i> <sub>125</sub>		1 26.7 95°12	1°5/25.8	18		<b>285381</b>	1999 <i>TK</i> <sub>143</sub>		1 26.7 97°90	0°9/27.2	18	
12 23	9 1.45	+20 0.4	1.807	2.625	14.4	21.5	12 23	9 2.20	+14 44.2	1.742	2.550	15.3	21.1
1 2	8 55.77	+20 48.9	1.746	2.644	10.7	21.3	1 2	8 56.32	+14 59.4	1.679	2.569	11.6	20.9
1 12	8 47.67	+21 44.2	1.710	2.663	6.5	21.1	1 12	8 48.00	+15 25.3	1.640	2.588	7.3	20.7
1 22	8 37.95	+22 40.3	1.701	2.682	2.3	20.9	1 22	8 38.08	+15 58.2	1.627	2.606	2.7	20.4
2 1	8 27.73	+23 31.0	1.722	2.700	3.2	21.0	2 1	8 27.69	+16 33.5	1.643	2.625	2.5	20.4
2 11	8 18.29	+24 11.6	1.772	2.718	7.3	21.2	2 11	8 18.09	+17 6.7	1.689	2.642	6.9	20.8
2 21	8 10.66	+24 39.8	1.848	2.735	11.2	21.5	2 21	8 10.34	+17 34.5	1.761	2.660	10.9	21.0
3 2	8 5.56	+24 55.3	1.948	2.752	14.4	21.8	3 2	8 5.13	+17 55.2	1.857	2.676	14.3	21.3
<b>209585</b>	2004 <i>XY</i> <sub>107</sub>		1 26.7 47°39	5°7/23.9	18		<b>262393</b>	2006 <i>UW</i> <sub>9</sub>		1 26.7 161°63	0°1/26.8	18	
12 23	9 2.91	+28 57.1	1.382	2.223	16.7	19.7	12 23	9 0.71	+16 35.7	2.263	3.064	12.5	22.5
1 2	8 57.82	+30 4.3	1.325	2.231	12.7	19.5	1 2	8 54.88	+17 1.3	2.183	3.070	9.4	22.4
1 12	8 49.36	+31 11.0	1.290	2.240	8.6	19.3	1 12	8 47.02	+17 34.6	2.128	3.077	5.8	22.1
1 22	8 38.57	+32 7.3	1.280	2.249	5.8	19.2	1 22	8 37.77	+18 12.1	2.102	3.082	1.9	21.9
2 1	8 27.03	+32 44.3	1.296	2.258	7.2	19.3	2 1	8 28.01	+18 49.7	2.106	3.087	2.1	21.9
2 11	8 16.57	+32 57.3	1.338	2.268	10.9	19.5	2 11	8 18.75	+19 23.8	2.141	3.091	6.0	22.2
2 21	8 8.65	+32 47.3	1.404	2.278	14.8	19.8	2 21	8 10.86	+19 51.6	2.205	3.095	9.5	22.4
3 2	8 4.16	+32 18.3	1.488	2.288	18.3	20.0	3 2	8 5.03	+20 11.9	2.293	3.097	12.5	22.6
<b>354392</b>	2003 <i>SC</i> <sub>326</sub>		1 26.7 242°38	0°9/26.2	17		<b>348880</b>	2006 <i>SY</i> <sub>211</sub>		1 26.7 194°57	3°3/29.5	17	
12 23	9 2.09	+19 28.5	1.864	2.679	14.2	21.9							

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>165736</b>	2001 <i>QQ</i> <sub>131</sub>		1 26.7 101°88	4°6/30.7	18		<b>489944</b>	2008 <i>RT</i> <sub>103</sub>		1 26.7 357°74	0°8/26.5	18	
12 23	8 54.63	+ 0 24.9	2.484	3.229	13.0	19.8	12 23	9 1.93	+20 15.8	1.216	2.058	18.5	20.5
1 2	8 50.12	+ 0 40.3	2.404	3.241	10.6	19.6	1 2	8 57.33	+20 13.6	1.146	2.056	14.0	20.3
1 12	8 43.99	+ 1 13.1	2.348	3.253	8.0	19.5	1 12	8 49.24	+20 18.6	1.097	2.054	8.7	20.0
1 22	8 36.76	+ 2 2.6	2.318	3.265	5.6	19.3	1 22	8 38.65	+20 25.8	1.072	2.053	2.8	19.6
2 1	8 29.15	+ 3 6.1	2.317	3.277	4.6	19.3	2 1	8 27.13	+20 30.0	1.072	2.053	3.5	19.6
2 11	8 21.93	+ 4 19.3	2.346	3.288	6.1	19.4	2 11	8 16.60	+20 27.1	1.097	2.053	9.3	20.0
2 21	8 15.80	+ 5 37.2	2.404	3.299	8.6	19.6	2 21	8 8.62	+20 15.7	1.146	2.055	14.6	20.3
3 2	8 11.32	+ 6 54.7	2.488	3.310	11.1	19.8	3 2	8 4.19	+19 56.0	1.214	2.056	19.0	20.6
<b>398525</b>	2011 <i>UA</i> <sub>294</sub>		1 26.7 167°65	3°4/24.7	18		<b>142771</b>	2002 <i>UQ</i> <sub>6</sub>		1 26.7 136°36	2°2/28.5	18	
12 23	9 3.02	+25 8.8	1.871	2.692	13.9	21.4	12 23	8 55.71	+ 8 54.7	2.546	3.326	11.8	19.9
1 2	8 57.18	+26 8.6	1.798	2.696	10.4	21.2	1 2	8 50.94	+ 9 18.7	2.465	3.335	9.2	19.7
1 12	8 48.71	+27 11.7	1.749	2.699	6.7	21.0	1 12	8 44.51	+ 9 54.7	2.408	3.343	6.1	19.5
1 22	8 38.37	+28 11.0	1.727	2.702	3.6	20.8	1 22	8 36.97	+10 40.6	2.379	3.351	3.2	19.3
2 1	8 27.33	+28 59.5	1.736	2.704	4.8	20.9	2 1	8 29.02	+11 33.3	2.381	3.358	2.5	19.3
2 11	8 16.93	+29 32.4	1.773	2.706	8.4	21.1	2 11	8 21.44	+12 28.8	2.413	3.366	5.2	19.5
2 21	8 8.36	+29 48.5	1.836	2.707	12.0	21.3	2 21	8 14.96	+13 23.3	2.475	3.373	8.2	19.7
3 2	8 2.45	+29 48.9	1.921	2.708	15.2	21.5	3 2	8 10.14	+14 13.6	2.562	3.379	10.9	19.9
<b>207890</b>	2008 <i>CA</i> <sub>126</sub>		1 26.7 268°18	6°5/30.2	17		<b>149496</b>	2003 <i>EJ</i> <sub>60</sub>		1 26.7 279°49	4°3/29.5	18	
12 23	8 57.74	- 0 36.5	2.438	3.173	13.5	19.5	12 23	8 56.22	+ 4 16.7	1.986	2.761	14.9	20.3
1 2	8 52.54	- 1 36.6	2.347	3.170	11.3	19.4	1 2	8 52.02	+ 4 29.8	1.878	2.739	12.0	20.1
1 12	8 45.55	- 2 22.4	2.280	3.167	9.0	19.2	1 12	8 45.58	+ 5 2.5	1.793	2.717	8.7	19.8
1 22	8 37.30	- 2 51.7	2.238	3.165	7.1	19.1	1 22	8 37.43	+ 5 54.5	1.733	2.695	5.5	19.6
2 1	8 28.54	- 3 3.8	2.224	3.162	6.5	19.0	2 1	8 28.42	+ 7 2.9	1.702	2.673	4.5	19.5
2 11	8 20.13	- 2 59.9	2.240	3.159	7.7	19.1	2 11	8 19.63	+ 8 22.6	1.700	2.651	7.1	19.6
2 21	8 12.85	- 2 42.8	2.282	3.156	9.9	19.2	2 21	8 12.10	+ 9 47.0	1.725	2.628	10.9	19.8
3 2	8 7.33	- 2 16.5	2.348	3.154	12.2	19.4	3 2	8 6.71	+11 9.8	1.775	2.605	14.4	19.9
<b>265640</b>	2005 <i>TF</i> <sub>25</sub>		1 26.7 6°83	7°2/23.3	18 R		<b>522528</b>	2016 <i>EN</i> <sub>236</sub>		1 26.7 104°54	1°0/27.5	18	
12 23	8 59.07	+32 15.9	1.337	2.186	16.7	20.1	12 23	8 55.35	+11 45.1	2.261	3.058	12.6	21.2
1 2	8 55.19	+33 24.2	1.279	2.187	13.0	19.9	1 2	8 50.95	+12 35.7	2.177	3.060	9.6	21.0
1 12	8 47.88	+34 28.6	1.243	2.189	9.3	19.7	1 12	8 44.66	+13 39.3	2.118	3.063	6.1	20.8
1 22	8 38.16	+35 18.6	1.230	2.192	7.3	19.6	1 22	8 37.06	+14 52.4	2.088	3.066	2.4	20.6
2 1	8 27.62	+35 45.4	1.242	2.196	8.5	19.7	2 1	8 28.91	+16 9.8	2.088	3.069	2.0	20.6
2 11	8 18.15	+35 44.9	1.279	2.202	11.9	19.9	2 11	8 21.15	+17 26.1	2.118	3.072	5.7	20.8
2 21	8 11.24	+35 18.9	1.337	2.209	15.6	20.1	2 21	8 14.60	+18 36.6	2.177	3.074	9.2	21.0
3 2	8 7.80	+34 32.3	1.415	2.216	19.0	20.3	3 2	8 9.93	+19 37.9	2.261	3.077	12.3	21.2
<b>682</b>	Hagar		1 26.7 195°95	4°7/29.9	18 R		<b>325451</b>	2009 <i>QN</i> <sub>16</sub>		1 26.7 247°67	4°9/23.9	18	
12 23	8 57.30	+ 2 27.8	2.353	3.106	13.4	17.3	12 23	9 4.40	+31 22.8	2.066	2.883	12.9	20.5
1 2	8 52.30	+ 2 24.4	2.260	3.104	10.9	17.1	1 2	8 58.24	+32 5.6	1.978	2.869	10.0	20.3
1 12	8 45.45	+ 2 37.2	2.190	3.101	8.1	16.9	1 12	8 49.42	+32 45.7	1.914	2.856	7.0	20.1
1 22	8 37.29	+ 3 6.1	2.146	3.098	5.6	16.8	1 22	8 38.67	+33 16.5	1.878	2.842	5.0	20.0
2 1	8 28.58	+ 3 49.4	2.132	3.094	4.7	16.7	2 1	8 27.13	+33 32.0	1.871	2.827	6.0	20.0
2 11	8 20.21	+ 4 43.3	2.147	3.089	6.5	16.8	2 11	8 16.15	+33 29.0	1.893	2.812	8.9	20.1
2 21	8 13.00	+ 5 43.4	2.191	3.084	9.3	17.0	2 21	8 6.94	+33 7.9	1.941	2.797	12.2	20.3
3 2	8 7.61	+ 6 44.9	2.260	3.079	12.1	17.1	3 2	8 0.39	+32 31.5	2.011	2.782	15.1	20.5
<b>434325</b>	2004 <i>JD</i> <sub>2</sub>		1 26.7 276°49	5°4/20.9	16		<b>82839</b>	2001 <i>QM</i> <sub>49</sub>		1 26.7 63°82	2°4/25.4	18	
12 23	9 0.85	+33 8.9	2.725	3.535	10.3	22.0	12 23	9 0.10	+25 6.5	2.150	2.968	12.4	19.3
1 2	8 55.42	+34 57.9	2.621	3.504	8.2	21.8	1 2	8 54.54	+25 26.2	2.080	2.977	9.3	19.1
1 12	8 47.70	+36 48.2	2.544	3.473	6.2	21.6	1 12	8 46.85	+25 46.7	2.034	2.986	5.8	18.9
1 22	8 38.13	+38 32.2	2.498	3.441	5.4	21.5	1 22	8 37.76	+26 3.6	2.017	2.994	2.7	18.7
2 1	8 27.51	+40 2.4	2.483	3.409	6.6	21.5	2 1	8 28.22	+26 13.1	2.030	3.003	3.5	18.8
2 11	8 16.89	+41 13.4	2.498	3.377	8.9	21.6	2 11	8 19.35	+26 12.8	2.071	3.012	6.8	19.0
2 21	8 7.35	+42 3.0	2.540	3.344	11.3	21.7	2 21	8 12.03	+26 2.4	2.140	3.021	10.1	19.2
3 2	7 59.82	+42 31.9	2.604	3.310	13.6	21.9	3 2	8 6.92	+25 42.7	2.233	3.030	13.0	19.4
<b>285012</b>	2011 <i>BP</i> <sub>36</sub>		1 26.7 269°10	1°1/27.4	17		<b>517175</b>	2013 <i>PR</i> <sub>77</sub>		1 26.7 23°28	1°8/27.9	18	
12 23	8 57.45	+13 54.9	2.011	2.817	13.6	21.4	12 23	8 56.63	+11 23.4	1.934	2.736	14.2	21.3
1 2	8 52.82	+14 12.9	1.918	2.807	10.4	21.1	1 2	8 52.18	+11 45.3	1.852	2.737	10.9	21.1
1 12	8 45.97	+14 42.1	1.848	2.795	6.7	20.9	1 12	8 45.55	+12 20.9	1.793	2.737	7.1	20.9
1 22	8 37.51	+15 19.7	1.805	2.784	2.6	20.6	1 22	8 37.38	+13 7.5	1.761	2.738	3.2	20.6
2 1	8 28.33	+16 1.8	1.792	2.773	2.3	20.5	2 1	8 28.60	+14 0.7	1.758	2.739	2.6	20.6
2 11	8 19.54	+16 43.8	1.808	2.762	6.5	20.8	2 11	8 20.30	+14 55.5	1.785	2.740	6.4	20.8
2 21	8 12.14	+17 21.8	1.851	2.750	10.4	21.0	2 21	8 13.45	+15 47.2	1.838	2.740	10.3	21.1
3 2	8 6.92	+17 53.3	1.917	2.739	13.9	21.2	3 2	8 8.78	+16 32.3	1.915	2.741	13.7	21.3
<b>470358</b>	2007 <i>RA</i> <sub>326</sub>		1 26.7 45°79	5°6/22.9	18		<b>247502</b>	2002 <i>PK</i> <sub>43</sub>		1 26.7 239°13	11°0/3.0	17	
12 23	8 59.67	+33 17.8	2.116	2.939	12.4	21.0	12 23	8 59.20	- 9 58.6	1.310	2.043	23.1	20.6
1 2	8 54.48	+34 21.0	2.055	2.948	9.6	20.8	1 2	8 55.21	- 9 49.9	1.223	2.037	20.1	20.4
1 12	8 46.93	+35 20.0	2.019	2.957	7.0	20.7	1 12	8 48.03	- 8 57.6	1.151	2.030	16.6	20.1
1 22	8 37.78	+36 7.9	2.011	2.965	5.6	20.6	1 22	8 38.35	- 7 16.2	1.099	2.022	13.1	19.9
2 1	8 28.10	+36 38.9	2.030	2.975	6.6	20.7	2 1	8 27.43	- 4 46.8	1.071	2.014	11.1	19.8
2 11	8 19.12	+36 50.5	2.077	2.984	9.0	20.9	2 11	8 16.96	- 1 40.0	1.069	2.006	12.1	19.8
2 21	8 11.84	+36 43.1	2.150	2.993	11.7	21.1	2 21	8 8.53	+ 1 46.5	1.092	1.998	15.4	19.9
3 2	8 6.99	+36 19.3	2.244	3.003	14.1	21.2	3 2	8 3.33	+ 5 13.5	1.138	1.989	19.5	20.2
<b>325035</b>	2008 <i>CP</i> <sub>91</sub>		1 26.7 329°80	1°8/27.8	18		<b>458252</b>	2010 <i>TJ</i> <sub>108</sub>		1 26.7 54°58	0°4/26.5	18	
12 23	8 57.28	+11 38.1	1.655	2.466	15.8	21.0							

EPHEMERIDES

1 26.7

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>340620</b>	2006 <i>QW</i> <sub>102</sub>		1 26.7 144°26	1.4/25.8	18		<b>124388</b>	2001 <i>QN</i> <sub>178</sub>		1 26.7 226°45	3.7/24.6	18	
12 23	8 58.86	+22 42.2	2.497	3.308	11.1	21.3	12 23	9 3.87	+24 51.6	1.763	2.586	14.5	20.3
1 2	8 53.38	+22 57.9	2.417	3.311	8.3	21.1	1 2	8 58.23	+25 58.6	1.677	2.576	11.0	20.1
1 12	8 46.06	+23 15.7	2.364	3.315	5.1	20.9	1 12	8 49.65	+27 11.0	1.614	2.565	7.1	19.8
1 22	8 37.51	+23 32.4	2.339	3.318	2.0	20.7	1 22	8 38.85	+28 21.1	1.579	2.553	3.9	19.6
2 1	8 28.53	+23 44.7	2.344	3.321	2.6	20.7	2 1	8 27.03	+29 20.5	1.573	2.541	5.2	19.6
2 11	8 20.05	+23 50.3	2.380	3.324	5.9	21.0	2 11	8 15.71	+30 2.9	1.595	2.528	9.2	19.8
2 21	8 12.84	+23 48.3	2.444	3.327	9.0	21.2	2 21	8 6.26	+30 26.1	1.644	2.515	13.2	20.1
3 2	8 7.52	+23 38.7	2.533	3.330	11.6	21.3	3 2	7 59.71	+30 31.2	1.713	2.501	16.7	20.3
<b>411953</b>	2012 <i>HJ</i> <sub>18</sub>		1 26.7 319°36	4.2/23.9	17		<b>374617</b>	2006 <i>EK</i> <sub>35</sub>		1 26.7 178°11	1.2/25.9	18	
12 23	8 57.54	+24 16.2	1.652	2.488	14.7	20.1	12 23	8 58.62	+20 37.3	2.286	3.099	12.0	21.8
1 2	8 53.59	+25 48.6	1.572	2.479	11.1	19.8	1 2	8 53.42	+21 7.4	2.204	3.099	8.9	21.6
1 12	8 46.81	+27 29.1	1.516	2.470	7.1	19.6	1 12	8 46.21	+21 42.4	2.148	3.100	5.5	21.4
1 22	8 37.90	+29 8.7	1.487	2.461	4.3	19.4	1 22	8 37.62	+22 18.3	2.120	3.100	1.9	21.1
2 1	8 28.00	+30 37.4	1.486	2.452	5.8	19.5	2 1	8 28.49	+22 51.0	2.122	3.100	2.6	21.2
2 11	8 18.59	+31 47.3	1.513	2.444	9.7	19.7	2 11	8 19.84	+23 16.9	2.154	3.100	6.2	21.4
2 21	8 11.01	+32 34.8	1.564	2.437	13.7	19.9	2 21	8 12.52	+23 34.2	2.214	3.100	9.6	21.6
3 2	8 6.26	+33 0.2	1.636	2.429	17.1	20.1	3 2	8 7.23	+23 42.2	2.298	3.099	12.5	21.8
<b>4451</b>	Grieve		1 26.7 145°34	9.8/4.9	18	R	<b>304818</b>	2007 <i>QA</i> <sub>11</sub>		1 26.7 92°90	0.4/26.9	18	
12 23	8 59.17	-18 47.3	2.871	3.465	14.3	17.8	12 23	9 2.53	+15 25.5	1.652	2.464	15.8	21.6
1 2	8 53.38	-19 37.6	2.795	3.480	13.0	17.7	1 2	8 56.73	+15 54.1	1.593	2.485	11.9	21.4
1 12	8 45.97	-20 5.8	2.737	3.495	11.6	17.6	1 12	8 48.37	+16 33.9	1.556	2.506	7.4	21.2
1 22	8 37.48	-20 8.9	2.701	3.508	10.5	17.5	1 22	8 38.32	+17 20.1	1.546	2.526	2.5	20.9
2 1	8 28.57	-19 45.9	2.689	3.521	9.9	17.5	2 1	8 27.78	+18 7.1	1.565	2.546	2.5	21.0
2 11	8 20.04	-18 58.7	2.703	3.532	9.9	17.5	2 11	8 18.09	+18 49.4	1.613	2.566	7.2	21.3
2 21	8 12.58	-17 51.3	2.742	3.543	10.7	17.6	2 21	8 10.34	+19 23.8	1.687	2.585	11.4	21.6
3 2	8 6.73	-16 29.5	2.805	3.553	11.8	17.7	3 2	8 5.26	+19 48.5	1.784	2.603	14.9	21.9
<b>31929</b>	2000 <i>GF</i> <sub>79</sub>		1 26.7 115°83	2.3/25.5	18		<b>34917</b>	4616 <i>P-L</i>		1 26.7 71°38	0.4/26.9	18	
12 23	9 6.24	+22 47.1	1.831	2.645	14.4	19.6	12 23	8 59.67	+15 22.6	1.772	2.585	14.9	19.2
1 2	8 59.34	+23 31.4	1.773	2.668	10.7	19.5	1 2	8 54.46	+15 51.7	1.712	2.605	11.2	19.0
1 12	8 49.89	+24 19.2	1.739	2.690	6.6	19.3	1 12	8 46.92	+16 31.4	1.675	2.626	6.9	18.8
1 22	8 38.77	+25 4.3	1.733	2.711	2.8	19.1	1 22	8 37.85	+17 17.3	1.666	2.646	2.4	18.6
2 1	8 27.19	+25 40.7	1.757	2.732	3.8	19.2	2 1	8 28.33	+18 4.1	1.685	2.666	2.4	18.6
2 11	8 16.51	+26 4.7	1.811	2.751	7.7	19.4	2 11	8 19.56	+18 47.0	1.733	2.686	6.7	18.9
2 21	8 7.80	+26 15.3	1.891	2.770	11.4	19.7	2 21	8 12.52	+19 22.4	1.807	2.706	10.7	19.2
3 2	8 1.78	+26 13.6	1.995	2.788	14.5	19.9	3 2	8 7.91	+19 48.7	1.905	2.726	14.0	19.5
<b>314998</b>	2007 <i>AP</i> <sub>6</sub>		1 26.7 313°24	5.0/26.3	16		<b>445888</b>	2012 <i>VJ</i> <sub>16</sub>		1 26.7 73°60	2.0/27.5	17	
12 23	9 18.92	+31 21.9	1.000	1.839	21.8	19.8	12 23	9 4.16	+13 57.3	1.312	2.133	18.6	21.6
1 2	9 11.25	+30 46.6	0.928	1.833	17.0	19.5	1 2	8 58.48	+13 47.1	1.253	2.148	14.2	21.4
1 12	8 58.39	+29 58.3	0.875	1.826	11.3	19.1	1 12	8 49.69	+13 50.4	1.215	2.164	9.1	21.1
1 22	8 41.75	+28 47.3	0.844	1.820	5.9	18.8	1 22	8 38.80	+14 4.3	1.202	2.180	3.8	20.8
2 1	8 23.92	+27 9.1	0.839	1.814	6.5	18.8	2 1	8 27.30	+14 24.5	1.215	2.196	3.3	20.9
2 11	8 7.96	+25 8.0	0.859	1.808	12.4	19.1	2 11	8 16.88	+14 45.9	1.255	2.211	8.3	21.2
2 21	7 56.12	+22 55.5	0.902	1.803	18.3	19.4	2 21	8 8.86	+15 4.8	1.319	2.227	13.1	21.5
3 2	7 49.48	+20 42.8	0.963	1.798	23.4	19.7	3 2	8 4.05	+15 18.7	1.405	2.243	17.2	21.8
<b>164145</b>	2003 <i>YG</i> <sub>104</sub>		1 26.7 77°66	2.9/28.4	18		<b>269119</b>	2007 <i>LQ</i> <sub>31</sub>		1 26.7 226°69	2.8/28.4	18	
12 23	8 57.81	+9 54.8	2.149	2.938	13.4	19.8	12 23	8 58.46	+9 41.3	2.340	3.122	12.7	20.7
1 2	8 52.73	+9 41.4	2.073	2.947	10.4	19.6	1 2	8 53.24	+9 28.6	2.244	3.114	9.9	20.5
1 12	8 45.72	+9 39.4	2.021	2.957	7.1	19.4	1 12	8 46.11	+9 26.5	2.172	3.106	6.8	20.3
1 22	8 37.41	+9 47.8	1.997	2.967	3.8	19.2	1 22	8 37.61	+9 34.2	2.128	3.098	3.7	20.0
2 1	8 28.67	+10 4.3	2.002	2.977	3.2	19.2	2 1	8 28.54	+9 50.0	2.114	3.089	3.1	20.0
2 11	8 20.46	+10 26.1	2.036	2.987	6.1	19.4	2 11	8 19.82	+10 11.1	2.130	3.080	6.0	20.2
2 21	8 13.60	+10 49.9	2.098	2.997	9.4	19.6	2 21	8 12.30	+10 34.7	2.174	3.071	9.2	20.3
3 2	8 8.73	+11 12.9	2.184	3.007	12.4	19.8	3 2	8 6.65	+10 58.1	2.243	3.061	12.3	20.5
<b>465151</b>	2007 <i>CL</i> <sub>37</sub>		1 26.7 66°61	2.3/25.9	18		<b>468988</b>	2015 <i>AC</i> <sub>155</sub>		1 26.7 263°05	0.6/26.4	18	
12 23	9 5.27	+25 3.8	1.748	2.569	14.7	21.2	12 23	8 58.07	+19 8.5	2.132	2.946	12.6	21.3
1 2	8 58.78	+25 2.7	1.680	2.578	11.0	21.0	1 2	8 53.16	+19 30.9	2.048	2.943	9.5	21.1
1 12	8 49.62	+25 1.5	1.636	2.587	6.9	20.7	1 12	8 46.13	+19 59.5	1.988	2.940	5.8	20.9
1 22	8 38.70	+24 55.7	1.618	2.597	2.9	20.5	1 22	8 37.62	+20 30.7	1.956	2.937	1.9	20.6
2 1	8 27.31	+24 41.5	1.630	2.606	3.7	20.6	2 1	8 28.54	+21 0.3	1.954	2.934	2.4	20.7
2 11	8 16.84	+24 17.5	1.671	2.616	7.8	20.9	2 11	8 19.93	+21 24.7	1.982	2.931	6.4	20.9
2 21	8 8.42	+23 44.4	1.738	2.626	11.7	21.1	2 21	8 12.72	+21 41.7	2.036	2.928	10.0	21.1
3 2	8 2.80	+23 4.2	1.828	2.635	15.0	21.3	3 2	8 7.63	+21 50.3	2.115	2.925	13.2	21.3
<b>200196</b>	1999 <i>RT</i> <sub>190</sub>		1 26.7 234°41	1.1/27.4	17		<b>315518</b>	2008 <i>AC</i> <sub>69</sub>		1 26.7 330°17	1.1/26.1	18	
12 23	8 57.73	+13 53.7	2.124	2.927	13.1	21.1	12 23	8 59.15	+18 58.7	1.650	2.476	15.2	21.3
1 2	8 52.89	+14 10.9	2.035	2.921	10.0	20.9	1 2	8 54.55	+19 37.7	1.573	2.474	11.4	21.1
1 12	8 45.96	+14 38.4	1.969	2.915	6.4	20.7	1 12	8 47.27	+20 26.2	1.518	2.472	7.0	20.8
1 22	8 37.54	+15 13.6	1.931	2.909	2.5	20.4	1 22	8 38.06	+21 18.6	1.489	2.470	2.4	20.5
2 1	8 28.50	+15 52.8	1.922	2.903	2.2	20.4	2 1	8 28.07	+22 8.5	1.489	2.469	3.2	20.5
2 11	8 19.87	+16 31.7	1.943	2.897	6.1	20.6	2 11	8 18.69	+22 50.1	1.516	2.467	7.9	20.8
2 21	8 12.57	+17 7.1	1.992	2.890	9.9	20.8	2 21	8 11.14	+23 20.1	1.570	2.465	12.2	21.1
3 2	8 7.34	+17 36.4	2.065	2.883	13.2	21.0	3 2	8 6.29	+23 37.5	1.645	2.464	15.9	21.3
<b>108564</b>	2001 <i>LN</i> <sub>19</sub>		1 26.7 38°32	2.4/27.5	18		<b>57606</b>	2001 <i>TU</i> <sub>110</sub>		1 26.7 46°00	0.7/26.3	18	
12 23	9 3.26	+14 44.7	1.579	2.391	16.4	18.3	12 23	8 57.93					

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>142020</b>	Xinghaishiyao		1 26.7 147°52	0°6/27.1	18		<b>348464</b>	2005 SB <sub>36</sub>		1 26.8 38°95	2°0/27.6	18	
12 23	8 57.46	+15 23.1	2.314	3.116	12.2	21.1	12 23	9 0.56	+13 14.8	1.256	2.084	18.9	20.9
1 2	8 52.47	+15 41.2	2.232	3.120	9.2	20.9	1 2	8 56.07	+13 16.2	1.191	2.090	14.5	20.6
1 12	8 45.60	+16 7.5	2.176	3.123	5.8	20.7	1 12	8 48.39	+13 33.7	1.147	2.097	9.3	20.3
1 22	8 37.44	+16 39.2	2.147	3.127	2.1	20.5	1 22	8 38.46	+14 3.9	1.126	2.104	3.9	20.0
2 1	8 28.80	+17 12.8	2.149	3.130	2.0	20.5	2 1	8 27.73	+14 41.6	1.130	2.111	3.3	20.0
2 11	8 20.60	+17 44.8	2.180	3.133	5.7	20.7	2 11	8 17.92	+15 20.4	1.161	2.119	8.6	20.3
2 21	8 13.67	+18 12.4	2.240	3.136	9.1	20.9	2 21	8 10.44	+15 55.0	1.215	2.127	13.6	20.6
3 2	8 8.63	+18 33.9	2.325	3.138	12.0	21.1	3 2	8 6.22	+16 22.1	1.290	2.136	17.9	20.9
<b>42687</b>	1998 JS <sub>1</sub>		1 26.7 249°43	3°5/28.6	18		<b>199133</b>	2005 YT <sub>98</sub>		1 26.8 39°61	1°0/26.4	18	
12 23	8 58.94	+ 8 12.7	1.773	2.565	15.7	19.1	12 23	9 3.92	+20 42.0	1.129	1.973	19.5	19.8
1 2	8 54.22	+ 8 12.7	1.681	2.556	12.4	18.9	1 2	8 58.74	+20 40.4	1.078	1.988	14.6	19.6
1 12	8 47.03	+ 8 29.2	1.611	2.547	8.6	18.7	1 12	8 50.02	+20 45.7	1.046	2.003	9.0	19.3
1 22	8 37.99	+ 9 1.2	1.567	2.537	4.8	18.4	1 22	8 38.94	+20 52.4	1.038	2.020	2.9	19.0
2 1	8 28.13	+ 9 45.7	1.551	2.527	3.9	18.3	2 1	8 27.29	+20 54.9	1.056	2.037	3.6	19.1
2 11	8 18.69	+10 37.7	1.563	2.517	7.4	18.5	2 11	8 16.99	+20 49.7	1.099	2.055	9.3	19.5
2 21	8 10.81	+11 31.7	1.602	2.506	11.5	18.7	2 21	8 9.50	+20 36.0	1.164	2.073	14.4	19.8
3 2	8 5.37	+12 22.9	1.664	2.495	15.2	18.9	3 2	8 5.61	+20 14.6	1.250	2.092	18.6	20.1
<b>302870</b>	2003 HF <sub>16</sub>		1 26.7 246°78	1°4/25.9	18		<b>222277</b>	2000 SW <sub>35</sub>		1 26.8 221°19	5°4/30.7	18	
12 23	9 1.36	+18 58.1	1.762	2.580	14.7	21.6	12 23	8 56.78	- 0 7.5	2.322	3.064	13.9	20.9
1 2	8 56.28	+19 47.7	1.668	2.566	11.1	21.3	1 2	8 52.04	- 0 8.7	2.223	3.056	11.5	20.7
1 12	8 48.44	+20 47.9	1.598	2.551	6.9	21.1	1 12	8 45.42	+ 0 8.6	2.146	3.048	8.8	20.5
1 22	8 38.50	+21 53.1	1.555	2.536	2.4	20.7	1 22	8 37.42	+ 0 44.8	2.096	3.039	6.4	20.3
2 1	8 27.55	+22 56.0	1.541	2.520	3.3	20.8	2 1	8 28.82	+ 1 38.2	2.074	3.029	5.5	20.2
2 11	8 16.98	+23 50.3	1.556	2.503	8.0	21.0	2 11	8 20.51	+ 2 45.0	2.081	3.020	7.0	20.3
2 21	8 8.11	+24 31.7	1.597	2.486	12.5	21.2	2 21	8 13.33	+ 4 0.0	2.117	3.009	9.7	20.5
3 2	8 1.93	+24 58.8	1.661	2.469	16.3	21.4	3 2	8 7.97	+ 5 17.4	2.178	2.998	12.5	20.6
<b>282184</b>	2001 TV <sub>111</sub>		1 26.7 141°37	2°3/27.9	18		<b>171498</b>	1997 CD <sub>2</sub>		1 26.8 82°53	0°2/26.6	18	
12 23	9 3.44	+11 20.3	1.863	2.654	15.1	20.9	12 23	8 57.80	+17 34.3	2.416	3.221	11.6	20.6
1 2	8 57.24	+11 21.9	1.789	2.667	11.6	20.7	1 2	8 52.53	+18 4.0	2.354	3.244	8.7	20.4
1 12	8 48.66	+11 36.0	1.738	2.679	7.7	20.5	1 12	8 45.52	+18 39.8	2.318	3.268	5.3	20.2
1 22	8 38.46	+12 0.5	1.715	2.690	3.6	20.3	1 22	8 37.39	+19 18.3	2.310	3.291	1.7	20.0
2 1	8 27.71	+12 31.8	1.721	2.700	3.0	20.2	2 1	8 28.94	+19 55.7	2.333	3.314	2.0	20.1
2 11	8 17.62	+13 5.7	1.757	2.710	6.8	20.5	2 11	8 21.05	+20 28.6	2.387	3.336	5.4	20.3
2 21	8 9.24	+13 38.4	1.821	2.719	10.7	20.7	2 21	8 14.43	+20 55.1	2.468	3.359	8.6	20.6
3 2	8 3.29	+14 7.1	1.908	2.727	14.1	21.0	3 2	8 9.65	+21 13.9	2.575	3.381	11.2	20.8
<b>207674</b>	2007 PV <sub>29</sub>		1 26.8 122°16	0°6/27.1	18		<b>319875</b>	2006 WE <sub>106</sub>		1 26.8 19°55	1°6/25.9	18	
12 23	9 0.92	+14 12.5	1.727	2.536	15.4	20.8	12 23	8 58.88	+20 16.9	1.546	2.378	15.7	21.3
1 2	8 55.60	+14 52.1	1.656	2.547	11.6	20.5	1 2	8 54.45	+20 55.4	1.476	2.381	11.8	21.0
1 12	8 47.77	+15 44.7	1.609	2.558	7.3	20.3	1 12	8 47.24	+21 42.0	1.429	2.384	7.2	20.8
1 22	8 38.20	+16 45.7	1.589	2.569	2.5	20.0	1 22	8 38.06	+22 30.9	1.407	2.388	2.6	20.5
2 1	8 28.00	+17 48.8	1.597	2.579	2.5	20.0	2 1	8 28.16	+23 15.2	1.413	2.392	3.5	20.6
2 11	8 18.47	+18 48.0	1.635	2.588	7.1	20.4	2 11	8 19.00	+23 49.4	1.446	2.396	8.2	20.9
2 21	8 10.71	+19 38.8	1.699	2.598	11.3	20.6	2 21	8 11.81	+24 10.8	1.504	2.401	12.6	21.1
3 2	8 5.51	+20 18.6	1.787	2.606	14.8	20.9	3 2	8 7.44	+24 19.0	1.584	2.406	16.3	21.4
<b>443873</b>	2001 TW <sub>99</sub>		1 26.8 112°49	6°3/24.0	18		<b>307627</b>	2003 SE <sub>78</sub>		1 26.8 157°08	2°5/28.1	18	
12 23	9 8.47	+32 8.9	1.548	2.375	16.0	21.1	12 23	9 1.21	+10 52.4	1.882	2.675	14.9	21.2
1 2	9 1.79	+33 2.8	1.489	2.385	12.4	20.9	1 2	8 55.64	+10 53.1	1.802	2.681	11.5	21.0
1 12	8 51.78	+33 52.0	1.453	2.395	8.7	20.7	1 12	8 47.73	+11 6.7	1.746	2.686	7.7	20.8
1 22	8 39.52	+34 26.9	1.443	2.405	6.3	20.6	1 22	8 38.20	+11 31.3	1.716	2.690	3.7	20.6
2 1	8 26.60	+34 40.4	1.460	2.415	7.4	20.7	2 1	8 28.06	+12 3.7	1.716	2.694	3.1	20.5
2 11	8 14.84	+34 29.6	1.504	2.424	10.7	20.9	2 11	8 18.49	+12 39.7	1.745	2.698	6.7	20.8
2 21	8 5.64	+33 57.2	1.572	2.433	14.3	21.1	2 21	8 10.51	+13 15.1	1.801	2.701	10.6	21.0
3 2	7 59.88	+33 8.3	1.660	2.442	17.4	21.4	3 2	8 4.90	+13 47.0	1.881	2.704	14.1	21.2
<b>42421</b>	2306 T <sub>-2</sub>		1 26.8 124°28	0°4/26.9	18		<b>364416</b>	2006 WC <sub>10</sub>		1 26.8 183°85	4°2/29.3	18	
12 23	9 2.56	+15 44.4	1.897	2.701	14.4	19.7	12 23	8 58.72	+ 5 23.2	2.095	2.866	14.3	21.5
1 2	8 56.55	+16 7.4	1.828	2.717	10.8	19.5	1 2	8 53.60	+ 5 16.0	2.008	2.867	11.4	21.3
1 12	8 48.21	+16 39.9	1.784	2.732	6.7	19.2	1 12	8 46.42	+ 5 24.5	1.943	2.867	8.2	21.1
1 22	8 38.31	+17 17.9	1.767	2.747	2.3	19.0	1 22	8 37.77	+ 5 48.2	1.905	2.866	5.2	20.9
2 1	8 27.91	+17 56.7	1.780	2.761	2.3	19.0	2 1	8 28.52	+ 6 24.9	1.896	2.865	4.3	20.9
2 11	8 18.19	+18 32.0	1.822	2.774	6.6	19.3	2 11	8 19.70	+ 7 10.8	1.916	2.864	6.7	21.0
2 21	8 10.18	+19 0.8	1.892	2.787	10.5	19.6	2 21	8 12.23	+ 8 1.2	1.964	2.862	10.0	21.2
3 2	8 4.57	+19 21.5	1.986	2.799	13.8	19.8	3 2	8 6.80	+ 8 51.8	2.037	2.860	13.1	21.4
<b>405960</b>	2006 SE <sub>44</sub>		1 26.8 65°37	3°2/28.4	16		<b>368451</b>	2003 GM <sub>56</sub>		1 26.8 129°83	6°5/31.1	18	
12 23	9 1.80	+ 9 31.7	1.567	2.368	17.1	21.9	12 23	8 56.35	- 1 12.8	1.980	2.729	15.8	21.0
1 2	8 56.12	+ 9 30.2	1.516	2.397	13.2	21.7	1 2	8 51.93	- 1 25.7	1.896	2.731	13.1	20.8
1 12	8 47.95	+ 9 45.0	1.486	2.426	8.8	21.5	1 12	8 45.42	- 1 17.3	1.834	2.733	10.2	20.7
1 22	8 38.20	+10 13.6	1.482	2.454	4.5	21.3	1 22	8 37.45	- 0 46.6	1.795	2.735	7.6	20.5
2 1	8 28.08	+10 51.7	1.506	2.483	3.6	21.3	2 1	8 28.87	+ 0 4.9	1.784	2.737	6.5	20.4
2 11	8 18.90	+11 34.1	1.557	2.512	7.3	21.6	2 11	8 20.74	+ 1 12.7	1.801	2.738	8.0	20.5
2 21	8 11.69	+12 15.8	1.635	2.540	11.2	21.9	2 21	8 13.97	+ 2 30.4	1.845	2.740	10.7	20.7
3 2	8 7.12	+12 53.1	1.736	2.568	14.7	22.2	3 2	8 9.28	+ 3 51.4	1.913	2.742	13.6	20.9
<b>401970</b>	2002 TB <sub>185</sub>		1 26.8 101°89	1°1/26.1	17		<b>288503</b>	2004 FL <sub>86</sub>		1 26.8 251°54	5°9/23.4	18	
12 23	9 4.17	+20 23.3	1.966	2.775	13.7	21.9	12 23	9 3.72	+32 22.3	1.851	2.675	13.9	20.8
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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>175391</b>	2006 <i>MP</i> <sub>9</sub>		1 26.8 162°51	1°1/27.5 18			<b>84891</b>	2003 <i>OH</i> <sub>14</sub>		1 26.8 61°08	9°8/30.5 18		
12 23	9 1.32	+13 42.4	2.245	3.036	12.8	21.2	12 23	9 9.71	- 0 42.3	1.441	2.193	20.5	18.2
1 2	8 55.41	+13 58.6	2.163	3.044	9.8	21.0	1 2	9 2.08	- 2 36.3	1.396	2.228	17.1	18.1
1 12	8 47.49	+14 24.3	2.106	3.050	6.2	20.8	1 12	8 51.66	- 4 6.0	1.373	2.264	13.5	17.9
1 22	8 38.17	+14 56.8	2.078	3.056	2.5	20.6	1 22	8 39.53	- 5 6.3	1.374	2.300	10.7	17.9
2 1	8 28.33	+15 32.5	2.080	3.060	2.1	20.6	2 1	8 27.10	- 5 35.4	1.400	2.335	9.9	17.9
2 11	8 18.98	+16 7.6	2.113	3.065	5.9	20.8	2 11	8 15.88	- 5 36.1	1.453	2.370	11.3	18.1
2 21	8 11.00	+16 39.2	2.174	3.068	9.4	21.0	2 21	8 7.00	- 5 15.0	1.531	2.405	13.8	18.3
3 2	8 5.06	+17 5.2	2.261	3.070	12.4	21.2	3 2	8 1.14	- 4 40.1	1.629	2.439	16.5	18.6
<b>370822</b>	2004 <i>TE</i> <sub>369</sub>		1 26.8 50°93	3°5/28.8 18			<b>156570</b>	2002 <i>EF</i> <sub>102</sub>		1 26.8 337°04	4°1/23.9 18		
12 23	8 57.64	+ 8 25.5	1.813	2.608	15.3	21.1	12 23	8 57.61	+24 45.1	1.710	2.545	14.3	19.2
1 2	8 52.99	+ 8 16.9	1.743	2.619	12.0	20.9	1 2	8 53.58	+26 13.3	1.634	2.540	10.8	19.0
1 12	8 46.11	+ 8 23.3	1.695	2.630	8.3	20.7	1 12	8 46.85	+27 48.2	1.582	2.535	7.0	18.7
1 22	8 37.73	+ 8 43.7	1.673	2.642	4.7	20.5	1 22	8 38.10	+29 20.9	1.557	2.530	4.2	18.6
2 1	8 28.84	+ 9 15.0	1.679	2.654	3.8	20.5	2 1	8 28.46	+30 42.4	1.560	2.526	5.7	18.6
2 11	8 20.57	+ 9 53.1	1.713	2.666	6.8	20.7	2 11	8 19.35	+31 45.5	1.591	2.522	9.4	18.8
2 21	8 13.88	+10 33.4	1.773	2.678	10.5	20.9	2 21	8 12.02	+32 27.3	1.646	2.518	13.1	19.1
3 2	8 9.45	+11 11.9	1.857	2.691	13.8	21.2	3 2	8 7.41	+32 48.2	1.723	2.515	16.4	19.3
<b>182769</b>	2001 <i>XL</i> <sub>219</sub>		1 26.8 153°39	1°8/25.7 18			<b>378905</b>	2008 <i>UF</i> <sub>54</sub>		1 26.8 31°78	1°2/27.5 18		
12 23	9 1.48	+22 18.7	2.177	2.989	12.5	20.8	12 23	8 56.88	+14 2.6	1.948	2.758	13.9	21.1
1 2	8 55.67	+22 51.2	2.101	2.995	9.3	20.6	1 2	8 52.39	+14 14.2	1.873	2.763	10.5	20.9
1 12	8 47.70	+23 27.5	2.050	3.001	5.8	20.4	1 12	8 45.75	+14 36.2	1.821	2.768	6.7	20.7
1 22	8 38.26	+24 2.8	2.028	3.007	2.3	20.2	1 22	8 37.65	+15 6.0	1.795	2.774	2.7	20.5
2 1	8 28.28	+24 32.5	2.036	3.012	3.1	20.2	2 1	8 29.02	+15 39.8	1.798	2.780	2.3	20.5
2 11	8 18.87	+24 53.4	2.074	3.017	6.7	20.5	2 11	8 20.92	+16 13.4	1.831	2.786	6.3	20.7
2 21	8 10.97	+25 3.9	2.139	3.021	10.1	20.7	2 21	8 14.31	+16 43.5	1.890	2.792	10.1	21.0
3 2	8 5.27	+25 4.2	2.229	3.025	13.1	20.9	3 2	8 9.85	+17 7.8	1.973	2.799	13.4	21.2
<b>226723</b>	2004 <i>PL</i> <sub>55</sub>		1 26.8 138°52	1°4/25.8 18			<b>294323</b>	2007 <i>VG</i> <sub>57</sub>		1 26.8 15°37	3°7/24.1 18		
12 23	8 59.53	+20 26.1	2.172	2.985	12.5	20.5	12 23	8 57.36	+26 45.9	2.134	2.960	12.2	21.0
1 2	8 54.23	+21 10.5	2.097	2.992	9.3	20.3	1 2	8 52.81	+27 49.8	2.061	2.961	9.2	20.8
1 12	8 46.82	+22 0.6	2.048	3.000	5.7	20.1	1 12	8 46.06	+28 55.5	2.014	2.963	6.0	20.7
1 22	8 37.98	+22 51.8	2.027	3.007	2.1	19.9	1 22	8 37.77	+29 56.8	1.994	2.965	3.8	20.5
2 1	8 28.60	+23 38.8	2.036	3.014	2.9	19.9	2 1	8 28.87	+30 47.7	2.003	2.967	4.8	20.6
2 11	8 19.74	+24 17.6	2.075	3.020	6.5	20.2	2 11	8 20.48	+31 23.9	2.041	2.969	7.8	20.8
2 21	8 12.32	+24 45.8	2.142	3.026	10.0	20.4	2 21	8 13.57	+31 44.0	2.105	2.971	10.9	21.0
3 2	8 7.02	+25 2.8	2.233	3.032	12.9	20.6	3 2	8 8.87	+31 48.8	2.192	2.974	13.7	21.2
<b>19952</b>	Ashkinazi		1 26.8 44°43	5°2/29.6 18			<b>81997</b>	2000 <i>QB</i> <sub>203</sub>		1 26.8 146°13	0°1/26.8 18		
12 23	8 59.52	+ 5 28.7	1.458	2.253	18.4	17.5	12 23	8 56.09	+16 39.0	2.723	3.523	10.6	20.3
1 2	8 54.59	+ 5 7.5	1.410	2.282	14.5	17.4	1 2	8 51.27	+17 10.1	2.641	3.529	7.9	20.1
1 12	8 47.13	+ 5 7.3	1.382	2.311	10.3	17.2	1 12	8 44.84	+17 47.7	2.586	3.535	4.9	19.9
1 22	8 38.05	+ 5 27.0	1.378	2.341	6.5	17.0	1 22	8 37.33	+18 28.9	2.560	3.540	1.6	19.7
2 1	8 28.60	+ 6 3.4	1.401	2.371	5.4	17.0	2 1	8 29.40	+19 10.4	2.565	3.546	1.8	19.7
2 11	8 20.11	+ 6 50.6	1.450	2.401	8.0	17.3	2 11	8 21.85	+19 48.9	2.601	3.551	5.0	19.9
2 21	8 13.60	+ 7 42.2	1.524	2.432	11.7	17.6	2 21	8 15.35	+20 22.0	2.665	3.555	8.0	20.1
3 2	8 9.75	+ 8 32.6	1.621	2.463	15.1	17.8	3 2	8 10.45	+20 48.1	2.755	3.560	10.6	20.3
<b>396596</b>	2001 <i>OP</i> <sub>89</sub>		1 26.8 104°48	2°5/25.9 18			<b>199794</b>	2006 <i>QF</i> <sub>105</sub>		1 26.8 23°46	0°1/26.8 18		
12 23	9 15.13	+27 46.5	2.114	2.908	13.4	20.4	12 23	8 59.00	+18 28.2	2.157	2.968	12.7	19.9
1 2	9 5.51	+27 30.5	2.050	2.933	10.1	20.2	1 2	8 53.79	+18 24.5	2.077	2.970	9.5	19.7
1 12	8 53.50	+27 10.2	2.012	2.957	6.4	20.1	1 12	8 46.54	+18 25.8	2.022	2.972	5.9	19.5
1 22	8 40.07	+26 41.8	2.005	2.981	3.0	19.9	1 22	8 37.91	+18 29.8	1.994	2.975	2.0	19.2
2 1	8 26.47	+26 3.2	2.030	3.004	3.6	20.0	2 1	8 28.79	+18 33.5	1.996	2.978	2.1	19.2
2 11	8 14.01	+25 14.6	2.088	3.026	7.0	20.2	2 11	8 20.21	+18 34.8	2.028	2.981	6.0	19.5
2 21	8 3.68	+24 18.6	2.175	3.047	10.4	20.5	2 21	8 13.06	+18 32.0	2.087	2.984	9.6	19.7
3 2	7 56.08	+23 18.2	2.288	3.068	13.2	20.7	3 2	8 7.98	+18 24.6	2.171	2.987	12.7	19.9
<b>217757</b>	2000 <i>QO</i> <sub>14</sub>		1 26.8 106°58	1°0/27.5 18			<b>467270</b>	2016 <i>EU</i> <sub>186</sub>		1 26.8 184°24	2°1/25.5 18		
12 23	8 59.48	+12 49.1	2.165	2.960	13.1	21.3	12 23	9 0.16	+22 54.5	2.160	2.976	12.4	21.0
1 2	8 54.01	+13 26.6	2.099	2.981	10.0	21.1	1 2	8 54.80	+23 32.7	2.080	2.977	9.3	20.8
1 12	8 46.60	+14 15.3	2.057	3.001	6.3	20.9	1 12	8 47.25	+24 14.7	2.025	2.976	5.8	20.6
1 22	8 37.88	+15 11.3	2.043	3.021	2.4	20.7	1 22	8 38.16	+24 55.6	1.998	2.976	2.5	20.3
2 1	8 28.74	+16 10.1	2.060	3.041	2.1	20.7	2 1	8 28.49	+25 30.5	2.001	2.975	3.4	20.4
2 11	8 20.18	+17 6.9	2.107	3.059	5.8	21.0	2 11	8 19.32	+25 55.7	2.033	2.974	6.9	20.6
2 21	8 13.01	+17 57.8	2.182	3.078	9.3	21.3	2 21	8 11.62	+26 9.5	2.092	2.973	10.3	20.8
3 2	8 7.87	+18 40.5	2.283	3.096	12.2	21.5	3 2	8 6.12	+26 11.9	2.176	2.972	13.3	21.0
<b>22670</b>	1998 <i>QO</i> <sub>35</sub>		1 26.8 102°11	0°6/26.4 18			<b>309823</b>	2009 <i>BK</i> <sub>143</sub>		1 26.8 274°10	1°7/25.9 18		
12 23	8 58.21	+18 19.8	2.086	2.899	12.9	18.5	12 23	9 0.94	+20 25.4	1.657	2.482	15.2	21.4
1 2	8 53.30	+18 51.6	2.009	2.904	9.7	18.3	1 2	8 56.20	+21 5.5	1.564	2.465	11.5	21.1
1 12	8 46.28	+19 30.8	1.958	2.909	5.9	18.0	1 12	8 48.56	+21 54.6	1.494	2.448	7.2	20.8
1 22	8 37.81	+20 13.2	1.933	2.914	1.9	17.8	1 22	8 38.72	+22 46.9	1.450	2.430	2.6	20.5
2 1	8 28.81	+20 54.2	1.939	2.919	2.4	17.8	2 1	8 27.81	+23 35.6	1.435	2.413	3.6	20.5
2 11	8 20.32	+21 29.7	1.974	2.924	6.4	18.1	2 11	8 17.34	+24 14.6	1.447	2.395	8.4	20.8
2 21	8 13.27	+21 57.0	2.036	2.929	10.0	18.3	2 21	8 8.67	+24 40.3	1.485	2.378	13.0	21.0
3 2	8 8.36	+22 14.9	2.123	2.934	13.1	18.5	3 2	8 2.85	+24 52.0	1.545	2.360	17.0	21.2
<b>4894</b>	Ask		1 26.8 172°22	1°1/27.3 18			<b>361221</b>	2006 <i>SU</i> <sub>88</sub>		1 26.8 186°95	3°1/25.0 18		
12 23	9 4.61	+14 24.1	1.784	2.585	15.3	17.6	12 23	9 2.47	+25 9.9	1.890	2.712	13.7	21.5
1 2	8 58.41	+14											





Table with columns for year (2019/20), right ascension (α2000), declination (δ2000), distance (Δ), radius (r), phase angle (β), and magnitude (V). It lists numerous astronomical objects such as 202029, 371207, 145640, etc., with their respective coordinates and magnitudes.









EPHEMERIDES

1 26.9

1 26.9

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>86993</b>	2000 <i>JH</i> <sub>36</sub>		1 26.9 164°81	2°3/25.6	18		<b>197848</b>	2004 <i>QQ</i> <sub>2</sub>		1 26.9 78°28	0°9/27.4	18	
12 23	9 5.51	+23 4.8	2.027	2.836	13.4	20.4	12 23	9 0.81	+13 9.6	1.438	2.256	17.4	20.4
1 2	8 59.04	+23 45.8	1.950	2.843	10.0	20.2	1 2	8 56.16	+13 52.4	1.372	2.267	13.3	20.1
1 12	8 50.12	+24 30.5	1.899	2.849	6.3	20.0	1 12	8 48.63	+14 52.1	1.328	2.278	8.4	19.9
1 22	8 39.49	+25 13.3	1.876	2.854	2.8	19.7	1 22	8 39.08	+16 3.3	1.309	2.289	3.1	19.6
2 1	8 28.23	+25 48.5	1.884	2.858	3.6	19.8	2 1	8 28.78	+17 18.5	1.318	2.300	2.7	19.6
2 11	8 17.58	+26 12.4	1.921	2.862	7.3	20.0	2 11	8 19.25	+18 29.5	1.354	2.311	7.9	19.9
2 21	8 8.63	+26 23.6	1.986	2.864	10.9	20.3	2 21	8 11.77	+19 30.5	1.416	2.322	12.6	20.2
3 2	8 2.16	+26 22.7	2.075	2.866	14.1	20.5	3 2	8 7.21	+20 18.3	1.500	2.333	16.5	20.5
<b>282988</b>	2007 <i>TD</i> <sub>156</sub>		1 26.9 119°54	5°4/30.9	18		<b>332943</b>	2011 <i>DJ</i> <sub>13</sub>		1 26.9 139°48	2°4/28.6	18	
12 23	8 56.44	- 0 15.9	2.512	3.249	13.1	20.7	12 23	8 57.87	+ 9 0.7	2.135	2.921	13.6	21.6
1 2	8 51.71	- 0 36.4	2.431	3.259	10.8	20.6	1 2	8 53.13	+ 9 20.8	2.053	2.926	10.6	21.4
1 12	8 45.34	- 0 40.9	2.372	3.267	8.4	20.4	1 12	8 46.39	+ 9 55.1	1.995	2.931	7.1	21.2
1 22	8 37.85	- 0 29.0	2.339	3.276	6.2	20.3	1 22	8 38.27	+10 41.3	1.964	2.936	3.7	21.0
2 1	8 29.94	- 0 1.6	2.335	3.285	5.5	20.3	2 1	8 29.60	+11 35.7	1.962	2.940	2.8	20.9
2 11	8 22.41	+ 0 38.5	2.360	3.293	6.6	20.4	2 11	8 21.37	+12 33.6	1.991	2.945	6.0	21.1
2 21	8 15.97	+ 1 27.2	2.413	3.301	8.8	20.5	2 21	8 14.45	+13 30.4	2.047	2.949	9.5	21.3
3 2	8 11.17	+ 2 20.2	2.491	3.309	11.2	20.7	3 2	8 9.50	+14 22.4	2.128	2.953	12.6	21.5
<b>109183</b>	2001 <i>QO</i> <sub>68</sub>		1 26.9 129°96	5°3/30.5	18		<b>258482</b>	2002 <i>AX</i> <sub>25</sub>		1 26.9 343°40	1°7/27.6	18	
12 23	8 59.70	+ 1 22.8	2.224	2.971	14.3	20.1	12 23	9 1.92	+15 27.9	1.729	2.539	15.3	20.2
1 2	8 54.30	+ 1 8.5	2.148	2.985	11.7	19.9	1 2	8 56.63	+14 59.4	1.646	2.536	11.7	19.9
1 12	8 47.00	+ 1 11.5	2.094	2.999	8.8	19.8	1 12	8 48.77	+14 38.6	1.586	2.533	7.6	19.7
1 22	8 38.42	+ 1 31.7	2.066	3.012	6.2	19.7	1 22	8 39.11	+14 24.1	1.553	2.530	3.2	19.4
2 1	8 29.38	+ 2 7.5	2.067	3.025	5.3	19.6	2 1	8 28.74	+14 13.8	1.547	2.528	2.7	19.4
2 11	8 20.82	+ 2 55.2	2.098	3.037	6.9	19.7	2 11	8 19.00	+14 5.6	1.571	2.526	7.1	19.6
2 21	8 13.55	+ 3 50.1	2.156	3.048	9.5	19.9	2 21	8 11.01	+13 57.7	1.620	2.524	11.4	19.9
3 2	8 8.21	+ 4 47.3	2.239	3.059	12.2	20.1	3 2	8 5.59	+13 48.5	1.693	2.523	15.1	20.1
<b>117520</b>	2005 <i>CP</i> <sub>51</sub>		1 26.9 265°51	0°2/26.8	18		<b>460252</b>	2014 <i>QB</i> <sub>277</sub>		1 26.9 159°93	0°6/27.3	18	
12 23	9 0.24	+16 22.2	1.723	2.539	15.1	20.1	12 23	9 1.65	+14 54.1	1.809	2.616	14.9	22.2
1 2	8 55.61	+16 55.9	1.631	2.526	11.5	19.9	1 2	8 56.34	+15 17.9	1.731	2.620	11.3	22.0
1 12	8 48.31	+17 41.7	1.561	2.512	7.2	19.6	1 12	8 48.56	+15 53.0	1.676	2.624	7.1	21.7
1 22	8 38.99	+18 35.2	1.518	2.498	2.4	19.3	1 22	8 39.03	+16 35.7	1.647	2.627	2.6	21.5
2 1	8 28.70	+19 30.6	1.503	2.484	2.6	19.2	2 1	8 28.82	+17 20.9	1.648	2.630	2.3	21.4
2 11	8 18.81	+20 21.5	1.517	2.470	7.5	19.5	2 11	8 19.18	+18 3.5	1.678	2.632	6.9	21.7
2 21	8 10.57	+21 3.6	1.557	2.456	12.1	19.7	2 21	8 11.21	+18 39.9	1.735	2.634	11.0	22.0
3 2	8 4.96	+21 34.5	1.619	2.441	16.0	20.0	3 2	8 5.71	+19 7.7	1.815	2.636	14.6	22.2
<b>288553</b>	2004 <i>GG</i> <sub>62</sub>		1 26.9 321°95	0°3/27.1	17		<b>211954</b>	2004 <i>XB</i> <sub>161</sub>		1 26.9 347°99	3°1/25.5	18	
12 23	8 56.50	+16 20.9	2.100	2.912	12.9	20.9	12 23	9 0.39	+23 15.3	1.308	2.152	17.3	20.7
1 2	8 52.25	+16 39.7	2.010	2.903	9.8	20.7	1 2	8 56.41	+23 54.9	1.237	2.147	13.1	20.4
1 12	8 45.93	+17 7.1	1.945	2.895	6.1	20.4	1 12	8 49.09	+24 41.1	1.186	2.143	8.3	20.1
1 22	8 38.11	+17 40.2	1.907	2.887	2.1	20.2	1 22	8 39.31	+25 26.1	1.160	2.139	3.7	19.8
2 1	8 29.67	+18 15.0	1.897	2.879	2.1	20.1	2 1	8 28.54	+26 1.9	1.160	2.136	4.9	19.9
2 11	8 21.61	+18 47.6	1.917	2.871	6.2	20.4	2 11	8 18.58	+26 22.4	1.185	2.134	9.8	20.2
2 21	8 14.88	+19 14.9	1.965	2.864	9.9	20.6	2 21	8 10.97	+26 25.7	1.233	2.132	14.6	20.4
3 2	8 10.20	+19 34.9	2.036	2.857	13.2	20.8	3 2	8 6.74	+26 13.0	1.302	2.132	18.7	20.7
<b>36114</b>	1999 <i>RA</i> <sub>130</sub>		1 26.9 268°70	0°7/27.3	18		<b>108741</b>	2001 <i>OQ</i> <sub>39</sub>		1 26.9 275°88	4°9/24.0	18	
12 23	9 0.62	+14 53.1	1.696	2.509	15.4	19.0	12 23	9 3.10	+28 57.2	1.832	2.657	14.0	19.8
1 2	8 55.96	+15 15.3	1.600	2.492	11.9	18.7	1 2	8 57.96	+29 57.3	1.739	2.636	10.8	19.6
1 12	8 48.58	+15 50.4	1.526	2.475	7.6	18.4	1 12	8 49.89	+30 59.0	1.670	2.616	7.4	19.3
1 22	8 39.10	+16 35.0	1.479	2.458	2.8	18.1	1 22	8 39.58	+31 54.4	1.627	2.595	5.0	19.1
2 1	8 28.60	+17 23.8	1.459	2.441	2.5	18.0	2 1	8 28.19	+32 35.7	1.613	2.573	6.2	19.2
2 11	8 18.47	+18 11.0	1.468	2.423	7.5	18.3	2 11	8 17.21	+32 57.5	1.626	2.552	9.7	19.3
2 21	8 9.98	+18 52.0	1.503	2.405	12.2	18.5	2 21	8 8.03	+32 58.7	1.665	2.530	13.4	19.5
3 2	8 4.16	+19 23.9	1.561	2.387	16.3	18.7	3 2	8 1.71	+32 41.2	1.725	2.508	16.8	19.7
<b>374506</b>	2005 <i>YJ</i> <sub>189</sub>		1 26.9 72°27	1°2/26.1	18		<b>348466</b>	2005 <i>SQ</i> <sub>64</sub>		1 26.9 106°05	3°0/25.5	17	
12 23	8 58.78	+19 0.5	1.898	2.717	13.8	21.1	12 23	9 7.61	+23 57.4	1.536	2.359	16.3	20.7
1 2	8 54.12	+19 49.2	1.824	2.722	10.3	20.8	1 2	9 1.11	+24 40.8	1.479	2.378	12.2	20.5
1 12	8 47.14	+20 46.4	1.775	2.727	6.3	20.6	1 12	8 51.58	+25 27.5	1.444	2.396	7.6	20.2
1 22	8 38.53	+21 46.7	1.752	2.733	2.2	20.4	1 22	8 40.03	+26 10.2	1.437	2.414	3.6	20.0
2 1	8 29.29	+22 43.9	1.759	2.738	2.9	20.4	2 1	8 27.90	+26 41.7	1.457	2.431	4.5	20.1
2 11	8 20.60	+23 32.9	1.794	2.743	7.0	20.7	2 11	8 16.80	+26 58.0	1.505	2.447	8.8	20.4
2 21	8 13.47	+24 10.4	1.857	2.748	10.9	20.9	2 21	8 8.03	+26 58.6	1.579	2.463	12.9	20.7
3 2	8 8.68	+24 35.3	1.942	2.754	14.1	21.1	3 2	8 2.38	+26 45.7	1.675	2.479	16.3	21.0
<b>504816</b>	2010 <i>ET</i> <sub>139</sub>		1 26.9 261°88	1°8/25.6	17		<b>37199</b>	2000 <i>WV</i> <sub>92</sub>		1 26.9 200°36	1°3/25.9	18	
12 23	8 58.47	+22 44.0	2.527	3.338	11.0	22.0	12 23	8 56.77	+21 34.0	2.757	3.566	10.2	19.2
1 2	8 53.53	+23 18.8	2.427	3.321	8.3	21.8	1 2	8 52.00	+22 8.2	2.671	3.564	7.7	19.0
1 12	8 46.65	+23 57.4	2.353	3.304	5.2	21.6	1 12	8 45.57	+22 46.1	2.611	3.562	4.7	18.8
1 22	8 38.36	+24 35.8	2.308	3.287	2.2	21.4	1 22	8 37.98	+23 24.3	2.581	3.560	1.8	18.6
2 1	8 29.43	+25 9.8	2.294	3.269	2.9	21.4	2 1	8 29.94	+23 59.2	2.581	3.558	2.4	18.7
2 11	8 20.79	+25 36.0	2.309	3.251	6.2	21.6	2 11	8 22.24	+24 27.7	2.612	3.555	5.4	18.9
2 21	8 13.30	+25 52.4	2.353	3.233	9.4	21.7	2 21	8 15.59	+24 48.0	2.671	3.553	8.3	19.1
3 2	8 7.65	+25 58.7	2.421	3.214	12.2	21.9	3 2	8 10.58	+24 59.7	2.755	3.550	10.9	19.2
<b>166174</b>	2002 <i>EO</i> <sub>57</sub>		1 26.9 187°82	1°5/26.2	18		<b>66300</b>	1999 <i>JQ</i> <sub>33</sub>		1 26.9 259°19	3°7/28.6	18	
12 23	9 6.33	+22 24.5	1.986	2.794	1								

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>86916</b>	2000 <i>HG</i> <sub>54</sub>		1 26.9 172°28	2°0/27.9	18		<b>29574</b>	1998 <i>FM</i> <sub>45</sub>		1 26.9 156°53	0°2/27.1	18	
12 23	9 2.77	+11 48.1	1.839	2.634	15.1	20.3	12 23	8 53.64	+16 24.0	3.243	4.040	9.1	18.9
1 2	8 57.14	+11 57.2	1.757	2.637	11.7	20.0	1 2	8 49.40	+16 47.9	3.156	4.041	6.9	18.7
1 12	8 49.05	+12 19.3	1.698	2.640	7.7	19.8	1 12	8 43.85	+17 17.3	3.095	4.043	4.3	18.6
1 22	8 39.21	+12 52.1	1.666	2.642	3.5	19.6	1 22	8 37.40	+17 50.1	3.064	4.044	1.5	18.4
2 1	8 28.68	+13 31.4	1.663	2.643	2.8	19.5	2 1	8 30.61	+18 23.6	3.064	4.045	1.4	18.4
2 11	8 18.69	+14 12.7	1.690	2.644	6.8	19.8	2 11	8 24.10	+18 55.4	3.095	4.047	4.2	18.6
2 21	8 10.34	+14 51.7	1.744	2.644	10.9	20.0	2 21	8 18.41	+19 23.4	3.155	4.048	6.8	18.7
3 2	8 4.44	+15 25.3	1.821	2.644	14.5	20.2	3 2	8 14.01	+19 46.3	3.242	4.049	9.1	18.9
<b>66314</b>	1999 <i>JQ</i> <sub>45</sub>		1 26.9 176°25	0°8/27.4	18		<b>254490</b>	2005 <i>EP</i> <sub>33</sub>		1 26.9 306°73	1°2/25.9	17	
12 23	9 2.21	+14 15.0	1.988	2.786	14.0	20.3	12 23	8 54.55	+21 42.5	2.928	3.739	9.7	20.4
1 2	8 56.58	+14 38.1	1.904	2.789	10.7	20.1	1 2	8 50.30	+22 10.8	2.835	3.729	7.2	20.2
1 12	8 48.65	+15 12.1	1.845	2.791	6.8	19.9	1 12	8 44.51	+22 42.5	2.769	3.720	4.5	20.1
1 22	8 39.07	+15 53.7	1.813	2.792	2.6	19.6	1 22	8 37.65	+23 14.5	2.731	3.710	1.7	19.8
2 1	8 28.83	+16 38.3	1.811	2.793	2.2	19.6	2 1	8 30.35	+23 43.8	2.724	3.701	2.3	19.9
2 11	8 19.09	+17 21.2	1.839	2.792	6.5	19.8	2 11	8 23.33	+24 7.6	2.748	3.692	5.1	20.1
2 21	8 10.87	+17 58.9	1.895	2.792	10.4	20.1	2 21	8 17.25	+24 24.2	2.799	3.683	7.9	20.2
3 2	8 4.93	+18 29.0	1.975	2.790	13.8	20.3	3 2	8 12.67	+24 33.0	2.876	3.674	10.4	20.4
<b>39729</b>	1996 <i>XD</i>		1 26.9 78°10	1°5/26.2	18		<b>522067</b>	2015 <i>XA</i> <sub>418</sub>		1 26.9 8°47	8°0/31.7	18	
12 23	9 3.83	+19 26.6	1.519	2.343	16.4	18.9	12 23	8 56.82	- 2 32.0	1.705	2.458	17.8	21.3
1 2	8 58.18	+20 11.6	1.465	2.365	12.2	18.7	1 2	8 52.82	- 3 1.6	1.625	2.458	15.0	21.1
1 12	8 49.73	+21 5.0	1.434	2.387	7.5	18.5	1 12	8 46.46	- 3 6.6	1.564	2.459	11.9	20.9
1 22	8 39.41	+22 0.0	1.428	2.409	2.6	18.3	1 22	8 38.38	- 2 44.9	1.526	2.460	9.2	20.8
2 1	8 28.56	+22 49.5	1.451	2.431	3.3	18.4	2 1	8 29.59	- 1 57.3	1.513	2.461	8.0	20.7
2 11	8 18.67	+23 28.1	1.502	2.452	8.0	18.7	2 11	8 21.29	- 0 48.3	1.527	2.462	9.3	20.8
2 21	8 10.92	+23 53.3	1.579	2.473	12.2	19.0	2 21	8 14.53	+ 0 34.6	1.566	2.464	12.1	21.0
3 2	8 6.07	+24 5.3	1.677	2.494	15.8	19.3	3 2	8 10.13	+ 2 3.3	1.628	2.466	15.2	21.2
<b>54694</b>	2001 <i>FJ</i> <sub>54</sub>		1 26.9 259°55	4°2/25.0	18		<b>449188</b>	2013 <i>CW</i> <sub>14</sub>		1 26.9 8°17	3°5/25.7	18	
12 23	9 5.50	+25 55.9	1.497	2.327	16.2	19.3	12 23	9 0.49	+24 17.5	1.078	1.935	19.3	20.7
1 2	9 0.18	+26 43.7	1.412	2.314	12.4	19.0	1 2	8 56.91	+24 43.2	1.019	1.935	14.6	20.4
1 12	8 51.47	+27 35.5	1.349	2.300	8.1	18.7	1 12	8 49.55	+25 13.4	0.979	1.937	9.2	20.1
1 22	8 40.16	+28 22.9	1.312	2.286	4.5	18.5	1 22	8 39.50	+25 40.0	0.961	1.940	4.2	19.8
2 1	8 27.65	+28 57.5	1.302	2.272	5.7	18.5	2 1	8 28.50	+25 54.9	0.968	1.945	5.3	19.9
2 11	8 15.76	+29 13.3	1.319	2.258	10.1	18.7	2 11	8 18.66	+25 53.2	0.998	1.951	10.6	20.2
2 21	8 6.11	+29 9.3	1.360	2.243	14.6	18.9	2 21	8 11.63	+25 34.7	1.050	1.958	15.7	20.5
3 2	7 59.83	+28 47.8	1.421	2.228	18.6	19.2	3 2	8 8.38	+25 1.8	1.121	1.966	20.1	20.8
<b>490412</b>	2009 <i>SX</i> <sub>14</sub>		1 26.9 175°82	4°4/30.3	18		<b>262570</b>	2006 <i>VJ</i> <sub>43</sub>		1 26.9 211°54	0°2/27.1	18	
12 23	8 58.61	+ 2 6.4	2.587	3.330	12.6	22.7	12 23	9 1.61	+16 39.3	2.091	2.894	13.3	21.5
1 2	8 53.36	+ 2 4.4	2.496	3.333	10.3	22.6	1 2	8 56.11	+16 55.1	2.001	2.889	10.1	21.3
1 12	8 46.41	+ 2 17.4	2.429	3.336	7.6	22.4	1 12	8 48.37	+17 18.9	1.934	2.883	6.3	21.0
1 22	8 38.29	+ 2 45.2	2.388	3.337	5.3	22.2	1 22	8 39.01	+17 47.6	1.896	2.876	2.2	20.7
2 1	8 29.68	+ 3 26.1	2.378	3.338	4.5	22.2	2 1	8 28.97	+18 17.3	1.888	2.869	2.1	20.7
2 11	8 21.40	+ 4 16.8	2.398	3.339	6.0	22.3	2 11	8 19.35	+18 44.2	1.909	2.862	6.3	21.0
2 21	8 14.18	+ 5 13.2	2.446	3.338	8.6	22.4	2 21	8 11.17	+19 5.5	1.959	2.854	10.2	21.2
3 2	8 8.62	+ 6 11.0	2.521	3.337	11.1	22.6	3 2	8 5.18	+19 19.8	2.033	2.845	13.5	21.4
<b>306602</b>	2000 <i>HY</i> <sub>96</sub>		1 26.9 327°27	9°2/31.8	18		<b>461187</b>	2015 <i>VE</i> <sub>78</sub>		1 26.9 91°79	2°4/28.3	18	
12 23	8 53.38	- 2 33.4	1.412	2.187	19.9	19.9	12 23	9 1.04	+10 15.1	1.502	2.309	17.4	21.6
1 2	8 50.88	- 3 7.1	1.318	2.166	17.0	19.7	1 2	8 56.22	+10 37.4	1.433	2.319	13.4	21.4
1 12	8 45.62	- 3 12.3	1.242	2.146	13.7	19.4	1 12	8 48.64	+11 17.9	1.387	2.330	8.9	21.1
1 22	8 38.20	- 2 44.4	1.188	2.127	10.6	19.2	1 22	8 39.13	+12 13.2	1.365	2.340	4.1	20.9
2 1	8 29.66	- 1 42.7	1.156	2.109	9.2	19.1	2 1	8 28.91	+13 17.4	1.370	2.351	3.1	20.9
2 11	8 21.44	- 0 12.0	1.149	2.091	10.8	19.1	2 11	8 19.42	+14 23.4	1.404	2.361	7.6	21.1
2 21	8 14.90	+ 1 38.0	1.164	2.075	14.2	19.2	2 21	8 11.87	+15 25.0	1.463	2.371	12.1	21.4
3 2	8 11.14	+ 3 36.0	1.202	2.060	18.1	19.4	3 2	8 7.11	+16 17.7	1.544	2.381	15.9	21.7
<b>249401</b>	2009 <i>BV</i> <sub>189</sub>		1 26.9 206°06	0°1/26.9	18		<b>178098</b>	2006 <i>SK</i> <sub>231</sub>		1 26.9 297°36	1°7/27.8	18	
12 23	9 2.51	+16 57.1	2.094	2.896	13.3	21.6	12 23	8 59.94	+13 14.8	1.672	2.483	15.7	20.4
1 2	8 56.79	+17 16.0	2.003	2.890	10.1	21.4	1 2	8 55.31	+13 19.0	1.589	2.478	12.1	20.2
1 12	8 48.79	+17 43.0	1.936	2.885	6.3	21.1	1 12	8 48.08	+13 35.9	1.528	2.474	7.9	19.9
1 22	8 39.14	+18 14.5	1.898	2.878	2.1	20.8	1 22	8 38.96	+14 3.1	1.492	2.470	3.4	19.7
2 1	8 28.79	+18 46.6	1.890	2.871	2.2	20.8	2 1	8 29.05	+14 36.5	1.484	2.465	2.7	19.6
2 11	8 18.86	+19 15.2	1.912	2.863	6.4	21.1	2 11	8 19.67	+15 11.4	1.505	2.461	7.2	19.9
2 21	8 10.39	+19 37.6	1.962	2.855	10.3	21.3	2 21	8 12.01	+15 43.5	1.551	2.457	11.6	20.1
3 2	8 4.15	+19 52.4	2.036	2.846	13.6	21.5	3 2	8 6.92	+16 9.9	1.620	2.453	15.5	20.3
<b>152663</b>	1998 <i>DF</i> <sub>32</sub>		1 26.9 46°20	4°8/24.2	18		<b>350600</b>	2001 <i>RG</i> <sub>57</sub>		1 26.9 88°50	1°6/26.2	17	
12 23	9 0.83	+26 33.5	1.538	2.375	15.6	19.2	12 23	9 6.53	+20 10.3	1.500	2.321	16.7	21.9
1 2	8 56.17	+27 53.9	1.486	2.391	11.7	19.0	1 2	9 0.22	+20 50.0	1.448	2.346	12.5	21.7
1 12	8 48.61	+29 16.3	1.457	2.408	7.7	18.8	1 12	8 50.99	+21 36.8	1.418	2.371	7.6	21.5
1 22	8 39.08	+30 31.5	1.454	2.425	4.9	18.7	1 22	8 39.87	+22 24.1	1.415	2.395	2.7	21.2
2 1	8 28.91	+31 30.9	1.479	2.443	6.1	18.8	2 1	8 28.25	+23 4.9	1.440	2.419	3.4	21.3
2 11	8 19.65	+32 9.2	1.530	2.461	9.7	19.0	2 11	8 17.69	+23 34.4	1.493	2.442	8.1	21.7
2 21	8 12.52	+32 25.7	1.606	2.480	13.3	19.3	2 21	8 9.40	+23 50.8	1.572	2.465	12.4	22.0
3 2	8 8.33	+32 22.9	1.702	2.498	16.5	19.5	3 2	8 4.14	+23 54.7	1.673	2.487	15.9	22.3
<b>278441</b>	2007 <i>RJ</i> <sub>312</sub>		1 26.9 174°13	1°2/26.0	17		<b>170101</b>	2002 <i>XM</i> <sub>70</sub>		1 26.9 75°60	4°6/23.5	18	
12 23	8 58.06	+20 24.7	2.592	3.399	10.9	2							

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>464895</b>	2005 <i>RX</i> <sub>21</sub>		1 26.9 74°59'	3°6/29.3	18		<b>320035</b>	2007 <i>DS</i> <sub>105</sub>		1 26.9 35°23'	4°8/30.1	18	
12 23	8 58.34	+ 6 10.3	1.780	2.567	15.9	21.3	12 23	8 56.95	+ 3 25.8	1.904	2.677	15.5	20.7
1 2	8 53.75	+ 6 30.8	1.711	2.581	12.5	21.1	1 2	8 52.71	+ 3 29.5	1.820	2.678	12.5	20.5
1 12	8 46.91	+ 7 10.3	1.664	2.596	8.7	20.9	1 12	8 46.31	+ 3 52.8	1.758	2.679	9.1	20.3
1 22	8 38.51	+ 8 6.6	1.642	2.610	5.0	20.7	1 22	8 38.36	+ 4 35.2	1.721	2.679	6.0	20.1
2 1	8 29.57	+ 9 15.0	1.649	2.625	3.8	20.6	2 1	8 29.76	+ 5 33.8	1.712	2.681	4.9	20.0
2 11	8 21.23	+10 29.3	1.685	2.639	6.8	20.8	2 11	8 21.61	+ 6 43.4	1.732	2.682	7.1	20.2
2 21	8 14.47	+11 43.2	1.747	2.654	10.5	21.1	2 21	8 14.85	+ 7 57.7	1.778	2.683	10.5	20.4
3 2	8 10.00	+12 51.3	1.834	2.668	13.9	21.3	3 2	8 10.25	+ 9 10.7	1.849	2.684	13.8	20.6
<b>366372</b>	2000 <i>SP</i> <sub>90</sub>		1 26.9 152°44'	3°8/29.5	18		<b>422258</b>	2014 <i>SK</i> <sub>135</sub>		1 26.9 97°30'	0°7/26.5	18	
12 23	9 0.28	+ 5 11.9	2.610	3.364	12.2	21.7	12 23	8 59.16	+16 53.6	1.873	2.688	14.1	20.9
1 2	8 54.53	+ 4 55.9	2.527	3.374	9.8	21.5	1 2	8 54.45	+17 49.0	1.800	2.695	10.6	20.7
1 12	8 47.10	+ 4 52.0	2.468	3.384	7.1	21.3	1 12	8 47.41	+18 55.1	1.750	2.702	6.5	20.5
1 22	8 38.53	+ 5 0.1	2.436	3.393	4.6	21.2	1 22	8 38.72	+20 6.5	1.728	2.709	2.2	20.2
2 1	8 29.56	+ 5 18.7	2.436	3.401	3.9	21.2	2 1	8 29.40	+21 16.8	1.736	2.716	2.6	20.2
2 11	8 20.98	+ 5 45.2	2.466	3.409	5.7	21.3	2 11	8 20.61	+22 19.8	1.772	2.723	6.9	20.5
2 21	8 13.51	+ 6 16.6	2.525	3.416	8.4	21.5	2 21	8 13.39	+23 11.4	1.836	2.730	10.8	20.8
3 2	8 7.73	+ 6 49.7	2.610	3.422	10.9	21.6	3 2	8 8.51	+23 50.0	1.923	2.737	14.2	21.0
<b>429324</b>	2010 <i>EH</i> <sub>89</sub>		1 26.9 311°59'	3°0/29.0	18		<b>204257</b>	2004 <i>EL</i> <sub>74</sub>		1 26.9 300°14'	0°8/26.4	18	
12 23	8 55.47	+ 7 36.2	2.111	2.897	13.7	21.0	12 23	8 57.16	+19 10.7	2.223	3.037	12.2	20.4
1 2	8 51.47	+ 7 50.2	2.018	2.890	10.8	20.8	1 2	8 52.73	+19 39.5	2.133	3.028	9.2	20.2
1 12	8 45.48	+ 8 19.6	1.949	2.882	7.5	20.6	1 12	8 46.26	+20 15.0	2.067	3.018	5.7	19.9
1 22	8 38.06	+ 9 3.0	1.906	2.875	4.2	20.4	1 22	8 38.33	+20 53.4	2.028	3.009	1.9	19.7
2 1	8 30.00	+ 9 57.2	1.892	2.868	3.3	20.3	2 1	8 29.78	+21 30.4	2.020	3.000	2.4	19.7
2 11	8 22.28	+10 57.5	1.907	2.861	6.2	20.5	2 11	8 21.59	+22 2.2	2.041	2.991	6.2	19.9
2 21	8 15.79	+11 58.9	1.949	2.855	9.7	20.7	2 21	8 14.68	+22 26.2	2.089	2.982	9.8	20.1
3 2	8 11.24	+12 57.0	2.017	2.848	12.9	20.9	3 2	8 9.75	+22 41.0	2.161	2.973	12.9	20.3
<b>193070</b>	2000 <i>GB</i> <sub>21</sub>		1 26.9 276°21'	3°9/25.2	18		<b>159672</b>	2002 <i>GW</i> <sub>109</sub>		1 26.9 288°55'	0°1/26.9	18	
12 23	9 4.79	+25 33.9	1.506	2.337	16.1	20.8	12 23	8 57.78	+15 45.2	1.946	2.758	13.8	20.1
1 2	8 59.70	+26 15.5	1.416	2.318	12.4	20.5	1 2	8 53.44	+16 22.6	1.858	2.751	10.4	19.9
1 12	8 51.23	+27 1.4	1.348	2.300	8.0	20.2	1 12	8 46.83	+17 11.1	1.794	2.745	6.5	19.7
1 22	8 40.14	+27 43.8	1.306	2.281	4.3	20.0	1 22	8 38.56	+18 6.7	1.758	2.738	2.2	19.4
2 1	8 27.79	+28 14.3	1.290	2.262	5.4	20.0	2 1	8 29.56	+19 4.3	1.750	2.731	2.3	19.4
2 11	8 15.98	+28 27.2	1.302	2.243	10.0	20.2	2 11	8 20.96	+19 58.3	1.771	2.725	6.6	19.6
2 21	8 6.34	+28 21.2	1.338	2.224	14.6	20.4	2 21	8 13.80	+20 44.5	1.819	2.718	10.6	19.8
3 2	8 0.03	+27 58.3	1.394	2.205	18.7	20.6	3 2	8 8.87	+21 20.6	1.891	2.712	14.1	20.1
<b>467998</b>	2012 <i>TW</i> <sub>285</sub>		1 26.9 132°94'	2°8/24.8	18		<b>191938</b>	2005 <i>UA</i> <sub>17</sub>		1 26.9 142°14'	0°3/26.8	18	
12 23	8 59.42	+27 0.8	2.708	3.519	10.3	21.9	12 23	9 6.37	+18 2.5	1.776	2.583	15.1	21.0
1 2	8 54.00	+27 41.9	2.636	3.528	7.8	21.7	1 2	8 59.87	+18 21.1	1.705	2.595	11.4	20.8
1 12	8 46.81	+28 23.0	2.591	3.537	5.0	21.5	1 12	8 50.75	+18 47.4	1.657	2.607	7.1	20.6
1 22	8 38.44	+28 59.8	2.575	3.546	3.0	21.4	1 22	8 39.84	+19 17.0	1.637	2.618	2.3	20.3
2 1	8 29.66	+29 28.5	2.589	3.555	3.7	21.5	2 1	8 28.33	+19 45.1	1.647	2.628	2.5	20.4
2 11	8 21.34	+29 46.4	2.634	3.563	6.2	21.6	2 11	8 17.56	+20 7.4	1.686	2.637	7.1	20.7
2 21	8 14.22	+29 52.8	2.707	3.572	8.8	21.8	2 21	8 8.68	+20 21.9	1.752	2.645	11.3	20.9
3 2	8 8.90	+29 48.4	2.804	3.579	11.2	22.0	3 2	8 2.48	+20 27.9	1.841	2.653	14.8	21.2
<b>500280</b>	2012 <i>PU</i> <sub>10</sub>		1 26.9 76°49'	3°5/29.5	18		<b>503001</b>	2015 <i>FX</i> <sub>96</sub>		1 26.9 33°98'	3°9/29.5	18	
12 23	8 55.78	+ 5 44.8	2.269	3.043	13.3	21.5	12 23	8 56.27	+ 5 49.8	2.300	3.072	13.2	21.5
1 2	8 51.47	+ 5 54.9	2.186	3.047	10.5	21.3	1 2	8 51.82	+ 5 35.9	2.215	3.074	10.5	21.3
1 12	8 45.36	+ 6 20.2	2.126	3.052	7.5	21.1	1 12	8 45.58	+ 5 35.5	2.153	3.076	7.6	21.1
1 22	8 37.98	+ 6 59.4	2.093	3.056	4.5	20.9	1 22	8 38.08	+ 5 48.4	2.118	3.079	4.8	21.0
2 1	8 30.12	+ 7 49.8	2.089	3.061	3.6	20.9	2 1	8 30.10	+ 6 12.9	2.112	3.081	4.0	20.9
2 11	8 22.64	+ 8 47.0	2.114	3.066	5.9	21.0	2 11	8 22.51	+ 6 45.9	2.135	3.084	6.1	21.1
2 21	8 16.34	+ 9 46.6	2.168	3.070	9.0	21.2	2 21	8 16.09	+ 7 23.8	2.186	3.086	9.0	21.3
3 2	8 11.84	+10 44.3	2.246	3.075	11.9	21.4	3 2	8 11.45	+ 8 2.8	2.262	3.089	11.9	21.4
<b>267504</b>	2002 <i>KJ</i> <sub>9</sub>		1 26.9 216°70'	2°5/25.4	18		<b>153509</b>	2001 <i>RJ</i> <sub>139</sub>		1 26.9 305°48'	5°6/24.4	18	
12 23	9 6.38	+22 35.4	2.019	2.827	13.5	21.8	12 23	9 4.15	+30 35.8	1.584	2.415	15.4	19.5
1 2	9 0.04	+23 31.9	1.924	2.816	10.2	21.5	1 2	8 59.19	+31 16.5	1.493	2.393	12.0	19.2
1 12	8 51.03	+24 34.7	1.854	2.803	6.4	21.3	1 12	8 50.90	+31 55.7	1.424	2.370	8.4	18.9
1 22	8 39.99	+25 37.3	1.812	2.790	2.9	21.0	1 22	8 40.05	+32 25.1	1.380	2.348	5.8	18.7
2 1	8 27.98	+26 33.0	1.802	2.775	3.9	21.1	2 1	8 28.01	+32 36.7	1.364	2.326	6.9	18.7
2 11	8 16.34	+27 16.2	1.821	2.759	7.9	21.3	2 11	8 16.54	+32 25.9	1.374	2.304	10.6	18.9
2 21	8 6.29	+27 44.2	1.868	2.742	11.7	21.5	2 21	8 7.25	+31 53.2	1.407	2.283	14.7	19.1
3 2	7 58.79	+27 57.3	1.939	2.723	15.1	21.7	3 2	8 1.28	+31 2.5	1.461	2.262	18.5	19.2
<b>82866</b>	2001 <i>QG</i> <sub>63</sub>		1 26.9 212°67'	4°3/24.9	18		<b>284839</b>	2009 <i>BY</i> <sub>68</sub>		1 26.9 207°97'	0°8/26.5	18	
12 23	9 6.56	+30 6.2	1.965	2.781	13.5	19.8	12 23	8 59.29	+20 34.6	2.478	3.285	11.3	20.8
1 2	9 0.09	+30 33.7	1.885	2.777	10.4	19.6	1 2	8 54.02	+20 44.1	2.392	3.284	8.5	20.6
1 12	8 50.93	+30 58.5	1.830	2.774	7.0	19.3	1 12	8 46.91	+20 57.2	2.332	3.282	5.2	20.4
1 22	8 39.90	+31 14.2	1.802	2.770	4.5	19.2	1 22	8 38.53	+21 11.0	2.300	3.281	1.8	20.1
2 1	8 28.18	+31 15.5	1.803	2.766	5.3	19.2	2 1	8 29.66	+21 22.5	2.299	3.279	2.2	20.1
2 11	8 17.17	+31 0.3	1.832	2.761	8.5	19.4	2 11	8 21.23	+21 29.2	2.328	3.277	5.6	20.4
2 21	8 8.06	+30 29.3	1.889	2.756	11.9	19.6	2 21	8 14.02	+21 29.8	2.385	3.275	8.9	20.6
3 2	8 1.67	+29 45.6	1.968	2.751	15.0	19.8	3 2	8 8.66	+21 24.0	2.468	3.273	11.7	20.7
<b>466871</b>	2015 <i>BH</i> <sub>493</sub>		1 26.9 160°07'	0°4/26.7	17		<b>123160</b>	2000 <i>TO</i> <sub>46</sub>		1 26.9 254°57'	2°1/25.9	18	
12 23	8 59.41	+19 0.9	2.271	3.079									

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>488668</b>	2003 <i>TE</i> <sub>40</sub>		1 26.9 178°58'	7.4/31.2	18		<b>456707</b>	2007 <i>RV</i> <sub>265</sub>		1 26.9 90°66'	0.3/27.1	18	
12 23	9 0.03	- 1 54.3	1.923	2.664	16.4	22.2	12 23	9 4.44	+16 6.0	1.655	2.465	15.9	22.1
1 2	8 55.02	- 2 27.0	1.838	2.665	13.8	22.0	1 2	8 58.42	+16 27.5	1.597	2.488	11.9	21.9
1 12	8 47.75	- 2 38.5	1.774	2.666	10.9	21.9	1 12	8 49.83	+16 59.0	1.561	2.511	7.4	21.7
1 22	8 38.87	- 2 26.9	1.733	2.666	8.4	21.7	1 22	8 39.55	+17 36.1	1.553	2.533	2.6	21.5
2 1	8 29.30	- 1 52.7	1.720	2.666	7.4	21.6	2 1	8 28.79	+18 13.5	1.574	2.555	2.4	21.5
2 11	8 20.17	- 0 59.4	1.735	2.666	8.7	21.7	2 11	8 18.91	+18 46.5	1.623	2.577	7.1	21.8
2 21	8 12.47	+ 0 6.9	1.775	2.665	11.4	21.9	2 21	8 10.99	+19 12.1	1.699	2.598	11.2	22.1
3 2	8 6.99	+ 1 19.6	1.840	2.664	14.3	22.1	3 2	8 5.74	+19 28.9	1.797	2.618	14.7	22.4
<b>20989</b>	1981 <i>EZ</i> <sub>45</sub>		1 26.9 115°80'	1.3/27.9	18		<b>122434</b>	2000 <i>QO</i> <sub>115</sub>		1 26.9 186°56'	5.2/30.8	18	
12 23	8 56.65	+12 11.5	2.568	3.357	11.5	19.1	12 23	8 57.81	+ 0 27.8	2.293	3.037	14.0	20.2
1 2	8 51.91	+12 31.1	2.489	3.367	8.8	18.9	1 2	8 53.04	+ 0 27.3	2.202	3.037	11.5	20.0
1 12	8 45.54	+13 0.2	2.436	3.377	5.7	18.7	1 12	8 46.39	+ 0 45.1	2.133	3.037	8.7	19.9
1 22	8 38.05	+13 36.5	2.410	3.387	2.5	18.5	1 22	8 38.41	+ 1 21.2	2.090	3.036	6.2	19.7
2 1	8 30.17	+14 16.9	2.416	3.396	1.9	18.5	2 1	8 29.87	+ 2 13.8	2.076	3.034	5.2	19.6
2 11	8 22.67	+14 58.0	2.451	3.405	5.0	18.7	2 11	8 21.67	+ 3 18.8	2.091	3.032	6.8	19.7
2 21	8 16.27	+15 36.8	2.516	3.414	8.1	18.9	2 21	8 14.63	+ 4 30.9	2.135	3.030	9.5	19.9
3 2	8 11.51	+16 11.0	2.606	3.423	10.8	19.1	3 2	8 9.41	+ 5 44.7	2.204	3.027	12.3	20.1
<b>54687</b>	2001 <i>DC</i> <sub>15</sub>		1 26.9 301°48'	8.4/ 2.1	18		<b>263542</b>	2008 <i>FJ</i> <sub>27</sub>		1 26.9 323°13'	2.2/27.9	18	
12 23	8 56.25	- 6 31.8	1.618	2.356	19.2	17.8	12 23	8 58.04	+13 10.9	1.476	2.297	16.9	20.1
1 2	8 52.77	- 6 11.8	1.519	2.341	16.5	17.5	1 2	8 54.35	+13 0.8	1.385	2.280	13.2	19.9
1 12	8 46.71	- 5 17.1	1.438	2.325	13.3	17.3	1 12	8 47.78	+13 4.0	1.315	2.263	8.7	19.6
1 22	8 38.62	- 3 45.0	1.379	2.311	10.2	17.1	1 22	8 39.01	+13 19.1	1.270	2.247	3.9	19.2
2 1	8 29.51	- 1 37.3	1.345	2.296	8.4	16.9	2 1	8 29.21	+13 42.5	1.251	2.232	3.2	19.1
2 11	8 20.68	+ 0 57.6	1.340	2.282	9.6	17.0	2 11	8 19.85	+14 9.7	1.259	2.217	8.0	19.4
2 21	8 13.37	+ 3 47.0	1.361	2.267	12.9	17.1	2 21	8 12.32	+14 36.2	1.291	2.204	12.9	19.6
3 2	8 8.61	+ 6 37.3	1.407	2.254	16.6	17.3	3 2	8 7.66	+14 58.3	1.344	2.191	17.3	19.9
<b>51798</b>	2001 <i>MA</i> <sub>28</sub>		1 26.9 135°21'	0.5/27.3	18		<b>104198</b>	2000 <i>ED</i> <sub>106</sub>		1 26.9 154°72'	3.1/29.4	18	
12 23	8 57.86	+15 13.3	2.696	3.489	10.9	20.4	12 23	8 56.15	+ 5 53.3	2.391	3.161	12.8	19.1
1 2	8 52.75	+15 36.5	2.618	3.500	8.2	20.3	1 2	8 51.72	+ 6 17.7	2.304	3.164	10.1	19.0
1 12	8 46.03	+16 6.9	2.565	3.511	5.2	20.1	1 12	8 45.53	+ 6 57.2	2.240	3.167	7.1	18.8
1 22	8 38.23	+16 41.7	2.542	3.521	1.9	19.9	1 22	8 38.12	+ 7 50.3	2.204	3.169	4.1	18.6
2 1	8 30.04	+17 18.0	2.550	3.531	1.7	19.9	2 1	8 30.20	+ 8 53.6	2.197	3.171	3.2	18.5
2 11	8 22.24	+17 52.6	2.589	3.541	4.9	20.1	2 11	8 22.62	+10 2.5	2.221	3.173	5.6	18.7
2 21	8 15.52	+18 23.0	2.656	3.550	7.9	20.3	2 21	8 16.15	+11 12.3	2.274	3.175	8.7	18.9
3 2	8 10.43	+18 47.7	2.750	3.559	10.5	20.5	3 2	8 11.41	+12 18.8	2.352	3.177	11.5	19.1
<b>303511</b>	2005 <i>EL</i> <sub>183</sub>		1 26.9 343°62'	1.6/26.3	18		<b>416422</b>	2003 <i>UC</i> <sub>222</sub>		1 26.9 78°16'	4.2/30.0	18	
12 23	8 59.66	+20 40.7	1.309	2.150	17.5	20.7	12 23	8 57.12	+ 3 54.0	2.105	2.872	14.4	20.8
1 2	8 55.87	+21 1.8	1.234	2.143	13.2	20.4	1 2	8 52.55	+ 4 0.9	2.032	2.887	11.5	20.6
1 12	8 48.81	+21 31.4	1.179	2.136	8.3	20.1	1 12	8 46.07	+ 4 25.1	1.982	2.902	8.3	20.5
1 22	8 39.34	+22 3.6	1.149	2.130	3.0	19.7	1 22	8 38.29	+ 5 5.5	1.959	2.917	5.3	20.3
2 1	8 28.86	+22 31.5	1.145	2.125	3.7	19.8	2 1	8 30.07	+ 5 59.2	1.964	2.932	4.3	20.3
2 11	8 19.14	+22 49.7	1.166	2.120	9.1	20.1	2 11	8 22.33	+ 7 1.3	1.998	2.947	6.4	20.4
2 21	8 11.66	+22 55.4	1.210	2.117	14.2	20.3	2 21	8 15.91	+ 8 6.6	2.059	2.962	9.4	20.6
3 2	8 7.47	+22 48.5	1.275	2.114	18.5	20.6	3 2	8 11.43	+ 9 10.3	2.146	2.976	12.3	20.9
<b>463892</b>	2014 <i>UB</i> <sub>96</sub>		1 26.9 96°62'	2.2/28.2	18		<b>429026</b>	2009 <i>BK</i> <sub>163</sub>		1 26.9 5°91'	4.3/25.1	18	
12 23	8 59.61	+11 1.2	1.872	2.669	14.8	21.8	12 23	9 2.72	+29 59.6	1.792	2.619	14.1	20.5
1 2	8 54.68	+11 11.4	1.798	2.678	11.4	21.6	1 2	8 57.33	+30 14.1	1.721	2.619	10.8	20.2
1 12	8 47.51	+11 35.0	1.746	2.688	7.5	21.4	1 12	8 49.27	+30 25.1	1.673	2.621	7.2	20.0
1 22	8 38.78	+12 9.7	1.722	2.697	3.6	21.2	1 22	8 39.40	+30 26.8	1.652	2.623	4.5	19.9
2 1	8 29.48	+12 51.6	1.726	2.705	2.8	21.1	2 1	8 28.96	+30 14.9	1.659	2.625	5.3	19.9
2 11	8 20.76	+13 35.9	1.759	2.714	6.5	21.4	2 11	8 19.35	+29 47.5	1.694	2.629	8.5	20.1
2 21	8 13.58	+14 18.5	1.819	2.723	10.3	21.6	2 21	8 11.70	+29 6.2	1.754	2.633	12.1	20.3
3 2	8 8.68	+14 55.9	1.903	2.731	13.7	21.9	3 2	8 6.77	+28 13.7	1.836	2.638	15.2	20.6
<b>421994</b>	2014 <i>QW</i> <sub>308</sub>		1 26.9 44°25'	0.8/27.4	16		<b>157974</b>	2000 <i>GM</i> <sub>86</sub>		1 26.9 307°27'	7.7/22.9	18	
12 23	8 59.31	+14 17.2	1.477	2.299	16.9	20.6	12 23	9 1.92	+30 18.0	1.266	2.114	17.5	19.9
1 2	8 54.93	+14 44.0	1.416	2.313	12.8	20.3	1 2	8 58.39	+31 49.9	1.183	2.091	13.8	19.6
1 12	8 47.85	+15 24.7	1.377	2.328	8.1	20.1	1 12	8 50.93	+33 26.3	1.121	2.069	9.9	19.3
1 22	8 38.92	+16 14.8	1.363	2.343	3.0	19.8	1 22	8 40.25	+34 54.2	1.083	2.047	7.7	19.1
2 1	8 29.38	+17 8.2	1.376	2.358	2.6	19.8	2 1	8 27.90	+36 0.0	1.070	2.025	9.4	19.1
2 11	8 20.64	+17 58.3	1.417	2.374	7.5	20.2	2 11	8 16.08	+36 34.4	1.080	2.004	13.5	19.3
2 21	8 13.87	+18 40.7	1.483	2.390	12.0	20.5	2 21	8 6.84	+36 35.6	1.112	1.984	18.1	19.5
3 2	8 9.85	+19 12.7	1.571	2.407	15.7	20.7	3 2	8 1.65	+36 8.1	1.161	1.964	22.2	19.7
<b>181010</b>	2005 <i>NA</i> <sub>64</sub>		1 26.9 255°01'	2.8/28.3	18		<b>175769</b>	1998 <i>VF</i> <sub>55</sub>		1 26.9 75°75'	2.8/28.5	18	
12 23	9 0.69	+11 3.0	1.853	2.649	15.0	20.5	12 23	9 0.34	+10 7.5	1.687	2.487	16.1	19.7
1 2	8 55.68	+10 49.6	1.762	2.641	11.7	20.3	1 2	8 55.42	+10 8.4	1.618	2.499	12.5	19.5
1 12	8 48.27	+10 48.3	1.694	2.634	7.9	20.0	1 12	8 48.05	+10 24.4	1.570	2.510	8.4	19.3
1 22	8 39.09	+10 58.2	1.652	2.625	4.1	19.8	1 22	8 39.00	+10 53.4	1.549	2.522	4.2	19.0
2 1	8 29.14	+11 16.7	1.639	2.617	3.3	19.7	2 1	8 29.37	+11 31.8	1.555	2.533	3.3	19.0
2 11	8 19.64	+11 40.5	1.655	2.609	6.9	19.9	2 11	8 20.40	+12 14.4	1.589	2.545	7.0	19.3
2 21	8 11.66	+12 5.8	1.697	2.600	11.0	20.1	2 21	8 13.16	+12 56.5	1.650	2.557	11.0	19.5
3 2	8 6.05	+12 29.4	1.762	2.592	14.6	20.3	3 2	8 8.40	+13 34.4	1.734	2.568	14.6	19.8
<b>296010</b>	2008 <i>YT</i> <sub>121</sub>		1 26.9 186°59'	0.6/27.4	17		<b>335530</b>	2006 <i>AH</i> <sub>59</sub>		1 26.9 281°1			

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2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>109866</b>	2001 <i>RS</i> <sub>146</sub>		1 26.9	53°21	7°5/30.6	18	<b>354930</b>	2006 <i>DO</i> <sub>153</sub>		1 26.9	235°52	2°7/28.5	18
12 23	9 1.17	+ 1 16.7	1.589	2.358	18.2	19.2	12 23	9 1.37	+ 9 48.7	1.896	2.685	14.9	21.6
1 2	8 56.02	+ 0 17.0	1.529	2.377	15.0	19.0	1 2	8 56.27	+ 9 54.9	1.798	2.673	11.7	21.3
1 12	8 48.39	- 0 21.3	1.489	2.396	11.5	18.9	1 12	8 48.72	+10 15.8	1.723	2.661	8.0	21.1
1 22	8 39.10	- 0 36.1	1.473	2.416	8.6	18.7	1 22	8 39.34	+10 49.7	1.675	2.647	4.1	20.8
2 1	8 29.31	- 0 27.8	1.483	2.436	7.5	18.7	2 1	8 29.09	+11 33.5	1.655	2.633	3.2	20.7
2 11	8 20.29	- 0 0.0	1.520	2.457	9.2	18.9	2 11	8 19.17	+12 22.3	1.665	2.619	6.9	20.9
2 21	8 13.09	+ 0 41.3	1.581	2.477	12.1	19.1	2 21	8 10.71	+13 11.3	1.702	2.604	11.0	21.1
3 2	8 8.45	+ 1 29.5	1.665	2.498	15.1	19.3	3 2	8 4.58	+13 56.4	1.763	2.588	14.7	21.3
<b>317026</b>	2001 <i>QH</i> <sub>229</sub>		1 26.9	187°30	1°2/27.7	17	<b>304930</b>	2007 <i>RJ</i> <sub>322</sub>		1 26.9	75°31	2°7/25.8	18
12 23	9 1.30	+13 35.8	2.540	3.324	11.7	22.0	12 23	9 5.54	+23 22.0	1.495	2.323	16.4	21.2
1 2	8 55.49	+13 45.4	2.448	3.324	9.0	21.9	1 2	8 59.65	+23 57.4	1.440	2.341	12.3	21.0
1 12	8 47.85	+14 3.2	2.381	3.323	5.8	21.7	1 12	8 50.80	+24 36.7	1.407	2.360	7.6	20.8
1 22	8 38.91	+14 27.2	2.344	3.321	2.4	21.4	1 22	8 39.98	+25 12.8	1.400	2.379	3.3	20.5
2 1	8 29.46	+14 54.5	2.337	3.318	2.0	21.4	2 1	8 28.60	+25 39.4	1.421	2.397	4.2	20.6
2 11	8 20.37	+15 22.1	2.362	3.315	5.3	21.6	2 11	8 18.26	+25 52.4	1.470	2.415	8.6	20.9
2 21	8 12.43	+15 47.4	2.417	3.310	8.6	21.8	2 21	8 10.20	+25 51.3	1.543	2.434	12.7	21.2
3 2	8 6.29	+16 8.6	2.497	3.305	11.5	22.0	3 2	8 5.19	+25 37.5	1.639	2.452	16.2	21.5
<b>447143</b>	2005 <i>EN</i> <sub>210</sub>		1 26.9	271°61	2°6/24.7	17	<b>468817</b>	2012 <i>SL</i> <sub>14</sub>		1 26.9	90°77	6°4/31.6	18
12 23	8 56.49	+28 19.6	3.278	4.088	8.8	21.1	12 23	8 56.03	- 2 45.8	2.458	3.184	13.6	21.3
1 2	8 51.68	+28 45.8	3.186	4.077	6.6	21.0	1 2	8 51.57	- 3 16.4	2.375	3.190	11.5	21.1
1 12	8 45.38	+29 11.2	3.121	4.066	4.4	20.8	1 12	8 45.43	- 3 29.6	2.313	3.195	9.2	21.0
1 22	8 38.06	+29 32.7	3.086	4.056	2.7	20.7	1 22	8 38.13	- 3 24.3	2.277	3.201	7.2	20.8
2 1	8 30.34	+29 47.3	3.081	4.045	3.3	20.7	2 1	8 30.39	- 3 0.9	2.268	3.206	6.4	20.8
2 11	8 22.91	+29 53.2	3.106	4.034	5.4	20.8	2 11	8 23.00	- 2 22.0	2.287	3.212	7.3	20.9
2 21	8 16.41	+29 49.6	3.160	4.023	7.7	21.0	2 21	8 16.68	- 1 31.6	2.334	3.217	9.3	21.0
3 2	8 11.36	+29 37.0	3.239	4.013	9.9	21.1	3 2	8 12.03	- 0 34.7	2.405	3.222	11.6	21.2
<b>87452</b>	2000 <i>QD</i> <sub>121</sub>		1 26.9	93°48	0°9/27.4	18	<b>116693</b>	2004 <i>CD</i> <sub>85</sub>		1 26.9	242°49	2°2/28.5	18
12 23	9 0.96	+15 38.0	1.905	2.712	14.2	19.4	12 23	8 58.33	+ 8 37.0	1.913	2.704	14.8	20.3
1 2	8 55.72	+15 38.3	1.827	2.716	10.8	19.2	1 2	8 53.94	+ 9 20.8	1.820	2.697	11.6	20.1
1 12	8 48.19	+15 47.2	1.773	2.721	6.9	18.9	1 12	8 47.25	+10 23.1	1.750	2.689	7.7	19.8
1 22	8 39.06	+16 2.2	1.746	2.725	2.6	18.7	1 22	8 38.85	+11 41.0	1.707	2.682	3.7	19.6
2 1	8 29.35	+16 19.8	1.748	2.729	2.2	18.6	2 1	8 29.64	+13 8.9	1.694	2.674	2.7	19.5
2 11	8 20.21	+16 36.6	1.779	2.733	6.5	18.9	2 11	8 20.78	+14 39.9	1.710	2.666	6.6	19.7
2 21	8 12.66	+16 50.0	1.836	2.738	10.4	19.2	2 21	8 13.30	+16 7.1	1.754	2.657	10.7	19.9
3 2	8 7.43	+16 58.5	1.918	2.742	13.8	19.4	3 2	8 8.05	+17 25.4	1.822	2.649	14.3	20.1
<b>79736</b>	1998 <i>SL</i> <sub>137</sub>		1 26.9	31°06	6°8/24.0	18	<b>220340</b>	2003 <i>GA</i> <sub>18</sub>		1 26.9	84°68	0°4/26.7	18
12 23	9 1.81	+29 22.4	1.118	1.974	18.8	18.2	12 23	9 1.17	+18 18.6	1.854	2.668	14.3	21.0
1 2	8 57.70	+30 41.6	1.082	1.995	14.3	18.0	1 2	8 55.94	+18 40.3	1.785	2.679	10.7	20.8
1 12	8 49.89	+31 58.3	1.066	2.017	9.8	17.8	1 12	8 48.35	+19 9.5	1.739	2.690	6.6	20.6
1 22	8 39.66	+33 0.5	1.073	2.041	6.9	17.7	1 22	8 39.16	+19 42.1	1.720	2.700	2.2	20.3
2 1	8 28.86	+33 38.5	1.105	2.066	8.1	17.9	2 1	8 29.42	+20 13.3	1.730	2.711	2.4	20.3
2 11	8 19.50	+33 48.5	1.160	2.092	11.9	18.1	2 11	8 20.33	+20 39.0	1.769	2.722	6.8	20.6
2 21	8 13.02	+33 32.7	1.237	2.119	15.8	18.5	2 21	8 12.92	+20 56.9	1.835	2.732	10.7	20.9
3 2	8 10.20	+32 56.5	1.332	2.147	19.2	18.8	3 2	8 7.90	+21 6.1	1.924	2.742	14.0	21.1
<b>494786</b>	2006 <i>TL</i> <sub>67</sub>		1 26.9	108°93	6°4/30.4	18	<b>52185</b>	3370 <i>T-2</i>		1 26.9	45°91	3°2/25.5	18
12 23	9 1.69	+ 1 29.6	1.917	2.671	16.0	21.7	12 23	9 2.75	+23 59.4	1.423	2.259	16.6	18.8
1 2	8 56.13	+ 0 47.9	1.845	2.685	13.2	21.5	1 2	8 57.74	+24 40.0	1.368	2.274	12.5	18.6
1 12	8 48.37	+ 0 24.6	1.794	2.699	10.0	21.4	1 12	8 49.71	+25 24.4	1.336	2.290	7.8	18.4
1 22	8 39.12	+ 0 20.7	1.769	2.713	7.3	21.2	1 22	8 39.64	+26 5.1	1.329	2.307	3.7	18.2
2 1	8 29.35	+ 0 35.7	1.772	2.726	6.4	21.2	2 1	8 28.98	+26 35.1	1.349	2.324	4.6	18.3
2 11	8 20.16	+ 1 6.3	1.802	2.739	8.0	21.3	2 11	8 19.34	+26 50.2	1.396	2.341	8.9	18.6
2 21	8 12.50	+ 1 47.7	1.860	2.751	10.8	21.5	2 21	8 11.99	+26 49.7	1.466	2.359	13.1	18.9
3 2	8 7.07	+ 2 34.3	1.941	2.763	13.7	21.7	3 2	8 7.71	+26 35.2	1.558	2.377	16.7	19.1
<b>439853</b>	1998 <i>XD</i> <sub>4</sub>		1 26.9	66°58	3°4/28.5	17	<b>460964</b>	2014 <i>WK</i> <sub>290</sub>		1 26.9	246°74	2°0/25.5	17
12 23	9 3.81	+ 9 56.2	1.306	2.117	19.3	21.4	12 23	8 59.93	+20 1.8	2.028	2.843	13.2	21.1
1 2	8 58.44	+ 9 49.5	1.253	2.139	14.9	21.2	1 2	8 55.20	+21 14.4	1.935	2.831	9.9	20.8
1 12	8 50.07	+10 1.4	1.220	2.162	10.0	21.0	1 12	8 48.08	+22 36.7	1.868	2.819	6.2	20.6
1 22	8 39.72	+10 29.4	1.211	2.184	5.1	20.7	1 22	8 39.16	+24 2.7	1.828	2.807	2.5	20.3
2 1	8 28.81	+11 8.8	1.228	2.207	4.0	20.7	2 1	8 29.35	+25 25.0	1.819	2.794	3.5	20.4
2 11	8 18.95	+11 53.1	1.272	2.229	8.2	21.0	2 11	8 19.84	+26 36.9	1.840	2.781	7.5	20.6
2 21	8 11.40	+12 36.6	1.341	2.252	12.7	21.4	2 21	8 11.73	+27 34.3	1.887	2.768	11.3	20.8
3 2	8 6.93	+13 14.9	1.431	2.274	16.6	21.7	3 2	8 5.91	+28 15.6	1.959	2.755	14.6	21.0
<b>88629</b>	2001 <i>RQ</i> <sub>34</sub>		1 26.9	197°78	1°5/27.8	18	<b>199301</b>	2006 <i>BC</i> <sub>82</sub>		1 26.9	45°30	5°5/25.4	17
12 23	9 3.98	+13 21.7	1.826	2.623	15.1	20.2	12 23	9 9.76	+29 27.0	1.116	1.960	19.7	19.7
1 2	8 58.22	+13 28.6	1.738	2.621	11.6	20.0	1 2	9 3.52	+29 51.8	1.075	1.983	14.9	19.5
1 12	8 49.90	+13 47.3	1.674	2.617	7.6	19.8	1 12	8 53.41	+30 12.4	1.055	2.007	9.8	19.3
1 22	8 39.71	+14 15.0	1.636	2.613	3.2	19.5	1 22	8 40.87	+30 19.6	1.058	2.031	5.8	19.1
2 1	8 28.73	+14 47.8	1.628	2.609	2.6	19.4	2 1	8 27.95	+30 6.8	1.087	2.056	6.7	19.3
2 11	8 18.25	+15 21.3	1.649	2.603	7.0	19.7	2 11	8 16.77	+29 33.2	1.140	2.082	11.0	19.6
2 21	8 9.42	+15 51.8	1.697	2.597	11.2	19.9	2 21	8 8.80	+28 42.8	1.216	2.108	15.3	19.9
3 2	8 3.11	+16 16.6	1.769	2.590	14.9	20.1	3 2	8 4.72	+27 41.2	1.311	2.134	19.0	20.2
<b>366299</b>	2013 <i>CQ</i> <sub>14</sub>		1 26.9	283°71	0°9/26.5	18	<b>325328</b>	2008 <i>JX</i> <sub>17</sub>		1 26.9	301°58	2°5/25.3	18
12 23	9 0.25	+17 15.8	1.523	2.349	16.3								

EPHEMERIDES

1 26.9

1 27.0

2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2019/20	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>145913</b>	1999 <i>US</i> <sub>24</sub>		1 26.9 168°73	2°1/28.0	18		<b>248086</b>	2004 <i>RD</i> <sub>1</sub>		1 26.9 94°10	1°5/25.9	18	
12 23	9 5.51	+12 7.0	1.823	2.614	15.4	20.7	12 23	9 2.04	+20 12.7	2.175	2.983	12.7	21.8
1 2	8 59.29	+12 9.5	1.742	2.620	11.9	20.5	1 2	8 56.22	+21 5.5	2.118	3.010	9.4	21.6
1 12	8 50.52	+12 24.3	1.684	2.624	7.8	20.3	1 12	8 48.37	+22 3.6	2.086	3.036	5.8	21.5
1 22	8 39.96	+12 49.2	1.653	2.628	3.6	20.0	1 22	8 39.18	+23 1.7	2.083	3.062	2.2	21.3
2 1	8 28.69	+13 20.4	1.651	2.631	2.8	20.0	2 1	8 29.60	+23 54.6	2.110	3.088	2.8	21.4
2 11	8 18.00	+13 53.5	1.679	2.633	6.9	20.2	2 11	8 20.66	+24 38.2	2.168	3.113	6.3	21.6
2 21	8 9.04	+14 24.8	1.735	2.634	11.1	20.5	2 21	8 13.22	+25 10.3	2.254	3.137	9.6	21.9
3 2	8 2.61	+14 51.6	1.815	2.634	14.6	20.7	3 2	8 7.90	+25 30.8	2.365	3.161	12.4	22.1
<b>377940</b>	2006 <i>HT</i> <sub>59</sub>		1 26.9 236°86	4°8/23.2	17		<b>430811</b>	2005 <i>ED</i> <sub>123</sub>		1 26.9 130°98	0°9/26.5	18	
12 23	9 0.96	+31 16.9	2.421	3.236	11.3	21.1	12 23	9 0.72	+20 56.1	2.361	3.168	11.8	21.1
1 2	8 55.74	+32 27.4	2.337	3.226	8.7	20.9	1 2	8 55.21	+21 7.7	2.282	3.174	8.8	20.9
1 12	8 48.29	+33 37.1	2.278	3.216	6.2	20.7	1 12	8 47.76	+21 22.9	2.229	3.179	5.5	20.7
1 22	8 39.21	+34 39.5	2.248	3.206	4.8	20.6	1 22	8 39.00	+21 38.2	2.204	3.184	1.9	20.5
2 1	8 29.40	+35 28.6	2.248	3.196	5.8	20.6	2 1	8 29.78	+21 50.7	2.210	3.190	2.3	20.5
2 11	8 19.95	+36 0.6	2.276	3.185	8.2	20.8	2 11	8 21.07	+21 57.6	2.246	3.195	5.8	20.7
2 21	8 11.87	+36 14.4	2.331	3.173	10.9	20.9	2 21	8 13.69	+21 57.9	2.310	3.199	9.1	21.0
3 2	8 5.93	+36 11.4	2.408	3.162	13.4	21.1	3 2	8 8.27	+21 51.3	2.399	3.204	12.0	21.2
<b>268456</b>	2005 <i>WR</i> <sub>93</sub>		1 26.9 24°27	2°5/25.4	18		<b>410281</b>	2007 <i>TD</i> <sub>196</sub>		1 26.9 195°62	1°0/27.6	18	
12 23	8 56.01	+18 37.9	1.286	2.131	17.5	19.2	12 23	9 2.38	+13 59.0	2.084	2.879	13.6	22.8
1 2	8 52.95	+20 9.6	1.234	2.146	13.0	19.0	1 2	8 56.77	+14 19.5	1.994	2.876	10.4	22.6
1 12	8 46.90	+21 54.6	1.204	2.162	7.9	18.7	1 12	8 48.92	+14 50.5	1.929	2.873	6.7	22.3
1 22	8 38.77	+23 42.9	1.199	2.179	3.2	18.5	1 22	8 39.45	+15 29.2	1.891	2.869	2.6	22.1
2 1	8 29.92	+25 22.9	1.221	2.198	4.4	18.6	2 1	8 29.28	+16 11.4	1.883	2.865	2.2	22.0
2 11	8 21.95	+26 45.5	1.269	2.218	9.2	19.0	2 11	8 19.53	+16 52.7	1.906	2.859	6.3	22.3
2 21	8 16.14	+27 46.0	1.340	2.238	13.7	19.3	2 21	8 11.19	+17 29.5	1.957	2.853	10.1	22.5
3 2	8 13.35	+28 23.7	1.432	2.260	17.4	19.6	3 2	8 5.04	+17 59.5	2.032	2.846	13.5	22.7
<b>245452</b>	2005 <i>LD</i> <sub>3</sub>		1 26.9 206°65	8°7/ 4.0	17		<b>190215</b>	2006 <i>BR</i> <sub>92</sub>		1 27.0 29°07	0°6/26.7	18	
12 23	8 55.71	-15 36.4	3.043	3.666	13.1	21.6	12 23	9 0.96	+19 35.4	1.933	2.748	13.7	20.1
1 2	8 51.17	-16 17.3	2.947	3.661	11.8	21.5	1 2	8 55.81	+19 45.4	1.854	2.749	10.3	19.9
1 12	8 45.15	-16 38.8	2.871	3.656	10.5	21.4	1 12	8 48.34	+20 1.1	1.799	2.750	6.4	19.7
1 22	8 38.09	-16 38.4	2.816	3.650	9.3	21.3	1 22	8 39.24	+20 18.9	1.771	2.752	2.2	19.4
2 1	8 30.57	-16 15.0	2.787	3.645	8.7	21.2	2 1	8 29.53	+20 34.7	1.772	2.753	2.4	19.4
2 11	8 23.27	-15 30.1	2.784	3.638	8.9	21.2	2 11	8 20.40	+20 45.4	1.803	2.755	6.7	19.7
2 21	8 16.82	-14 27.1	2.806	3.632	9.8	21.3	2 21	8 12.86	+20 49.1	1.860	2.756	10.6	19.9
3 2	8 11.77	-13 10.8	2.853	3.625	11.1	21.4	3 2	8 7.66	+20 45.4	1.940	2.758	13.9	20.1
<b>490401</b>	2009 <i>RY</i> <sub>1</sub>		1 26.9 101°98	1°4/27.9	18		<b>500386</b>	2012 <i>TP</i> <sub>81</sub>		1 27.0 159°92	3°7/24.0	17	
12 23	9 0.75	+12 39.1	2.110	2.903	13.5	21.9	12 23	9 1.16	+31 5.4	2.962	3.768	9.7	22.6
1 2	8 55.27	+12 54.7	2.042	2.923	10.3	21.7	1 2	8 55.32	+31 50.0	2.889	3.774	7.4	22.4
1 12	8 47.79	+13 20.9	1.999	2.942	6.6	21.5	1 12	8 47.74	+32 32.1	2.842	3.780	5.1	22.3
1 22	8 38.98	+13 55.0	1.983	2.960	2.8	21.3	1 22	8 38.98	+33 7.5	2.825	3.786	3.7	22.2
2 1	8 29.74	+14 33.3	1.998	2.978	2.2	21.3	2 1	8 29.80	+33 32.3	2.838	3.791	4.4	22.2
2 11	8 21.09	+15 11.7	2.042	2.996	5.8	21.6	2 11	8 21.05	+33 44.4	2.882	3.796	6.5	22.4
2 21	8 13.87	+15 46.9	2.114	3.014	9.3	21.8	2 21	8 13.47	+33 43.5	2.954	3.800	8.8	22.5
3 2	8 8.71	+16 16.6	2.211	3.030	12.4	22.1	3 2	8 7.64	+33 30.9	3.049	3.803	10.8	22.7
<b>169830</b>	2002 <i>QW</i> <sub>78</sub>		1 26.9 136°91	1°3/26.2	18		<b>424084</b>	2007 <i>DN</i> <sub>48</sub>		1 27.0 253°11	11°4/25.0	16	
12 23	9 1.52	+22 16.6	2.351	3.159	11.8	20.7	12 23	9 26.66	+41 57.7	1.144	1.959	21.2	20.7
1 2	8 55.81	+22 29.8	2.273	3.165	8.9	20.5	1 2	9 17.72	+42 29.3	1.076	1.954	17.5	20.4
1 12	8 48.12	+22 45.5	2.221	3.171	5.5	20.3	1 12	9 3.09	+42 41.2	1.026	1.948	13.9	20.2
1 22	8 39.09	+23 0.4	2.197	3.176	2.1	20.1	1 22	8 44.39	+42 16.8	0.999	1.943	11.6	20.0
2 1	8 29.61	+23 10.9	2.204	3.182	2.6	20.1	2 1	8 24.57	+41 5.0	0.997	1.937	12.2	20.1
2 11	8 20.66	+23 14.8	2.241	3.187	6.0	20.3	2 11	8 7.03	+39 7.9	1.019	1.931	15.5	20.2
2 21	8 13.08	+23 11.0	2.306	3.192	9.3	20.6	2 21	7 54.13	+36 39.3	1.064	1.925	19.6	20.4
3 2	8 7.51	+22 59.7	2.395	3.196	12.1	20.7	3 2	7 46.84	+33 55.7	1.128	1.919	23.4	20.7
<b>132551</b>	2002 <i>JY</i> <sub>75</sub>		1 26.9 211°94	2°6/28.4	18		<b>364246</b>	2006 <i>SD</i> <sub>206</sub>		1 27.0 61°98	8°6/ 1.6	18	
12 23	9 1.70	+10 24.0	1.923	2.713	14.7	20.4	12 23	8 58.48	- 4 32.3	1.639	2.382	18.8	21.0
1 2	8 56.42	+10 24.3	1.832	2.708	11.5	20.2	1 2	8 54.09	- 4 59.3	1.574	2.398	15.9	20.8
1 12	8 48.77	+10 37.9	1.764	2.702	7.8	19.9	1 12	8 47.31	- 4 58.8	1.528	2.414	12.7	20.7
1 22	8 39.40	+11 3.2	1.723	2.696	3.9	19.7	1 22	8 38.90	- 4 29.1	1.504	2.431	9.9	20.6
2 1	8 29.27	+11 37.2	1.711	2.689	3.1	19.6	2 1	8 29.92	- 3 31.6	1.505	2.448	8.6	20.5
2 11	8 19.56	+12 15.7	1.728	2.682	6.7	19.8	2 11	8 21.58	- 2 12.2	1.533	2.465	9.6	20.6
2 21	8 11.33	+12 54.5	1.772	2.674	10.7	20.1	2 21	8 14.93	- 0 39.4	1.586	2.482	12.1	20.8
3 2	8 5.40	+13 29.9	1.841	2.666	14.2	20.3	3 2	8 10.70	+ 0 58.1	1.662	2.499	15.0	21.0
<b>180743</b>	2004 <i>LR</i> <sub>3</sub>		1 26.9 264°04	5°6/30.5	18		<b>156105</b>	2001 <i>SK</i> <sub>242</sub>		1 27.0 83°70	1°4/27.8	18	
12 23	8 57.82	+ 1 41.3	1.984	2.745	15.4	20.6	12 23	9 1.54	+12 37.1	1.443	2.259	17.5	20.0
1 2	8 53.50	+ 1 33.1	1.884	2.731	12.7	20.4	1 2	8 56.84	+13 4.0	1.375	2.267	13.4	19.7
1 12	8 46.98	+ 1 44.5	1.806	2.717	9.6	20.2	1 12	8 49.25	+13 47.5	1.327	2.275	8.6	19.5
1 22	8 38.81	+ 2 16.2	1.753	2.703	6.7	20.0	1 22	8 39.61	+14 43.4	1.305	2.283	3.5	19.2
2 1	8 29.84	+ 3 6.8	1.727	2.689	5.6	19.9	2 1	8 29.20	+15 45.3	1.310	2.292	2.7	19.2
2 11	8 21.15	+ 4 11.9	1.729	2.674	7.6	20.0	2 11	8 19.52	+16 45.8	1.342	2.300	7.8	19.5
2 21	8 13.74	+ 5 25.6	1.759	2.660	10.8	20.1	2 21	8 11.87	+17 39.3	1.400	2.308	12.5	19.8
3 2	8 8.44	+ 6 41.7	1.813	2.645	14.1	20.3	3 2	8 7.14	+18 22.2	1.479	2.316	16.5	20.1
<b>467567</b>	2007 <i>TV</i> <sub>286</sub>		1 26.9 67°17	3°0/24.9	18		<b>276403</b>	2002 <i>XF</i> <sub>87</sub>		1 27.0 95°79	3°1/25.6	17	
12 23	8 59.34	+25 25.4	2.166	2.987	12.								