

EPHEMERIDES

12 25.9

12 26.0

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>332244</b>	2006 <i>KC</i> <sub>31</sub>		12 25.9	98°67	0°6/25.9	17	<b>15487</b>	1999 <i>CC</i> <sub>63</sub>		12 26.0	225°75	1°5/26.1	18
11 17	6 46.50	+24 45.8	2.574	3.340	12.2	21.6	11 17	6 44.73	+18 35.1	2.757	3.517	11.7	18.6
11 27	6 41.84	+24 56.7	2.495	3.354	9.6	21.4	11 27	6 40.38	+18 22.9	2.655	3.510	9.3	18.5
12 7	6 35.18	+25 7.9	2.439	3.368	6.6	21.3	12 7	6 34.20	+18 13.4	2.578	3.503	6.5	18.3
12 17	6 27.03	+25 17.8	2.410	3.381	3.2	21.1	12 17	6 26.60	+18 6.7	2.527	3.495	3.4	18.1
12 27	6 18.18	+25 24.8	2.412	3.395	0.7	20.9	12 27	6 18.26	+18 2.5	2.507	3.488	1.5	17.9
1 6	6 9.52	+25 28.4	2.445	3.408	3.9	21.2	1 6	6 9.96	+18 0.7	2.518	3.480	4.0	18.1
1 16	6 1.86	+25 28.5	2.507	3.421	7.1	21.4	1 16	6 2.47	+18 1.3	2.559	3.472	7.1	18.3
1 26	5 55.91	+25 26.2	2.596	3.434	9.9	21.6	1 26	5 56.46	+18 4.2	2.627	3.463	9.9	18.4
<b>517520</b>	2014 <i>QV</i> <sub>452</sub>		12 25.9	6°17	12°4/28.0	16	<b>294198</b>	2007 <i>TO</i> <sub>421</sub>		12 26.0	79°98	5°1/27.2	18
11 17	6 38.29	- 3 5.9	1.451	2.208	20.5	20.4	11 17	6 48.66	+ 7 53.2	1.769	2.526	17.3	20.7
11 27	6 36.65	- 4 26.9	1.389	2.210	18.0	20.3	11 27	6 44.25	+ 7 58.4	1.697	2.541	14.2	20.5
12 7	6 32.28	- 5 24.8	1.344	2.214	15.4	20.1	12 7	6 37.20	+ 8 18.9	1.645	2.555	10.6	20.3
12 17	6 25.82	- 5 52.3	1.319	2.219	13.3	20.0	12 17	6 28.14	+ 8 55.5	1.618	2.570	7.0	20.1
12 27	6 18.31	- 5 44.6	1.315	2.227	12.4	20.0	12 27	6 18.10	+ 9 47.3	1.619	2.585	5.1	20.0
1 6	6 11.01	- 5 1.8	1.334	2.236	13.0	20.0	1 6	6 8.27	+10 51.1	1.648	2.600	6.8	20.2
1 16	6 5.08	+ 3 48.5	1.375	2.247	14.9	20.2	1 16	5 59.80	+12 2.8	1.705	2.614	10.2	20.4
1 26	6 1.46	- 2 12.6	1.436	2.259	17.2	20.4	1 26	5 53.58	+13 18.1	1.787	2.629	13.5	20.6
<b>444852</b>	2007 <i>VW</i> <sub>185</sub>		12 26.0	93°84	5°4/26.0	15	<b>254755</b>	2005 <i>PG</i> <sub>19</sub>		12 26.0	108°61	0°1/26.0	18
11 17	6 49.30	+11 22.1	1.885	2.645	16.3	22.0	11 17	6 49.95	+22 38.5	2.325	3.088	13.5	21.7
11 27	6 44.45	+10 20.0	1.814	2.661	13.2	21.8	11 27	6 44.64	+22 42.5	2.252	3.109	10.6	21.5
12 7	6 37.14	+ 9 25.8	1.765	2.677	9.9	21.6	12 7	6 37.12	+22 48.1	2.201	3.129	7.2	21.3
12 17	6 28.02	+ 8 42.3	1.742	2.692	6.7	21.5	12 17	6 27.99	+22 53.6	2.178	3.149	3.5	21.1
12 27	6 18.09	+ 8 12.2	1.746	2.707	5.5	21.4	12 27	6 18.13	+22 57.8	2.185	3.168	0.4	20.9
1 6	6 8.47	+ 7 56.4	1.779	2.723	7.2	21.6	1 6	6 8.54	+22 59.9	2.223	3.187	4.2	21.2
1 16	6 0.20	+ 7 54.6	1.840	2.737	10.3	21.8	1 16	6 0.13	+23 0.3	2.291	3.205	7.7	21.5
1 26	5 54.08	+ 8 5.1	1.924	2.752	13.3	22.0	1 26	5 53.66	+22 59.7	2.385	3.223	10.7	21.7
<b>210056</b>	2006 <i>PU</i> <sub>23</sub>		12 26.0	168°87	0°6/26.1	18	<b>516390</b>	1996 <i>TZ</i> <sub>46</sub>		12 26.0	126°77	2°8/26.2	18
11 17	6 49.06	+20 27.8	2.138	2.907	14.3	21.3	11 17	6 48.01	+15 36.5	2.294	3.052	13.8	22.0
11 27	6 44.35	+20 39.2	2.049	2.909	11.4	21.1	11 27	6 43.12	+15 9.7	2.213	3.064	11.0	21.8
12 7	6 37.19	+20 54.5	1.983	2.912	7.8	20.9	12 7	6 36.10	+14 47.8	2.156	3.076	7.8	21.7
12 17	6 28.13	+21 12.4	1.943	2.914	3.9	20.6	12 17	6 27.51	+14 31.5	2.125	3.087	4.6	21.5
12 27	6 18.07	+21 31.1	1.933	2.916	0.7	20.4	12 27	6 18.18	+14 21.3	2.123	3.098	2.9	21.4
1 6	6 8.10	+21 49.1	1.953	2.917	4.6	20.7	1 6	6 9.06	+14 17.2	2.152	3.109	5.0	21.6
1 16	5 59.29	+22 5.7	2.002	2.918	8.5	20.9	1 16	6 1.02	+14 19.1	2.211	3.119	8.2	21.8
1 26	5 52.51	+22 21.0	2.077	2.919	11.9	21.1	1 26	5 54.81	+14 26.4	2.295	3.129	11.2	22.0
<b>1069</b>	Planckia		12 26.0	290°67	4°8/26.8	18 R	<b>31094</b>	1997 <i>CN</i> <sub>28</sub>		12 26.0	33°01	7°4/28.0	18
11 17	6 43.50	+ 8 10.8	2.325	3.074	13.9	14.5	11 17	6 43.20	+ 0 52.1	2.035	2.769	16.0	18.2
11 27	6 39.77	+ 7 58.6	2.225	3.064	11.4	14.3	11 27	6 39.58	+ 0 35.3	1.966	2.784	13.6	18.1
12 7	6 33.98	+ 7 57.1	2.147	3.053	8.7	14.1	12 7	6 33.82	+ 0 35.8	1.918	2.799	10.9	17.9
12 17	6 26.56	+ 8 7.9	2.095	3.042	6.0	13.9	12 17	6 26.45	+ 0 56.1	1.892	2.814	8.6	17.8
12 27	6 18.24	+ 8 31.4	2.071	3.032	4.8	13.8	12 27	6 18.33	+ 1 36.8	1.893	2.830	7.4	17.8
1 6	6 9.89	+ 9 7.0	2.076	3.021	6.2	13.9	1 6	6 10.41	+ 2 36.1	1.922	2.847	8.2	17.9
1 16	6 2.40	+ 9 52.6	2.109	3.011	8.9	14.0	1 16	6 3.57	+ 3 50.1	1.977	2.864	10.3	18.0
1 26	5 56.56	+10 45.7	2.168	3.000	11.8	14.2	1 26	5 58.55	+ 5 13.9	2.057	2.881	12.7	18.2
<b>298525</b>	2003 <i>WF</i> <sub>51</sub>		12 26.0	113°51	4°9/25.7	18	<b>52123</b>	4217 <i>P-L</i>		12 26.0	123°53	0°1/26.0	18
11 17	6 55.75	+35 52.9	2.069	2.827	15.1	21.7	11 17	6 49.95	+23 22.7	1.971	2.745	15.2	20.4
11 27	6 49.94	+36 37.9	1.999	2.845	12.2	21.5	11 27	6 45.23	+23 27.0	1.889	2.753	12.0	20.2
12 7	6 41.12	+37 16.6	1.950	2.862	9.0	21.3	12 7	6 37.87	+23 32.8	1.830	2.761	8.2	20.0
12 17	6 30.03	+37 43.5	1.928	2.880	6.1	21.2	12 17	6 28.50	+23 38.3	1.797	2.769	4.0	19.8
12 27	6 17.87	+37 54.0	1.934	2.896	4.9	21.2	12 27	6 18.12	+23 41.8	1.793	2.776	0.5	19.5
1 6	6 6.06	+37 47.0	1.970	2.912	6.7	21.3	1 6	6 7.96	+23 42.3	1.819	2.784	4.8	19.8
1 16	5 55.91	+37 24.5	2.033	2.928	9.6	21.5	1 16	5 59.15	+23 40.2	1.873	2.791	8.9	20.1
1 26	5 48.40	+36 51.1	2.122	2.943	12.5	21.7	1 26	5 52.59	+23 36.8	1.952	2.797	12.4	20.3
<b>71974</b>	2000 <i>WB</i> <sub>131</sub>		12 26.0	243°55	2°9/26.0	18	<b>289778</b>	2005 <i>JR</i> <sub>97</sub>		12 26.0	290°19	1°6/26.2	18
11 17	6 50.86	+18 17.8	1.552	2.337	18.2	19.3	11 17	6 47.13	+18 52.2	1.823	2.604	16.0	21.0
11 27	6 46.75	+17 43.4	1.462	2.329	14.6	19.1	11 27	6 43.36	+18 50.5	1.730	2.597	12.8	20.8
12 7	6 39.39	+17 12.7	1.391	2.321	10.4	18.8	12 7	6 36.84	+18 54.0	1.659	2.590	8.9	20.6
12 17	6 29.39	+16 46.6	1.345	2.313	5.7	18.5	12 17	6 28.11	+19 2.4	1.613	2.583	4.6	20.3
12 27	6 17.93	+16 25.9	1.325	2.305	3.0	18.3	12 27	6 18.16	+19 14.4	1.595	2.577	1.6	20.1
1 6	6 6.52	+16 11.4	1.334	2.296	6.7	18.5	1 6	6 8.24	+19 28.8	1.605	2.570	5.4	20.3
1 16	5 56.68	+16 3.8	1.369	2.287	11.5	18.8	1 16	5 59.57	+19 44.9	1.644	2.564	9.7	20.6
1 26	5 49.60	+16 3.5	1.427	2.278	15.8	19.0	1 26	5 53.20	+20 2.2	1.706	2.557	13.6	20.8
<b>436149</b>	Edabel		12 26.0	65°07	1°4/25.8	18	<b>220190</b>	2002 <i>VM</i> <sub>8</sub>		12 26.0	37°12	0°7/25.9	18
11 17	6 53.89	+23 2.8	1.353	2.148	19.9	20.5	11 17	6 50.67	+24 5.8	1.273	2.080	20.3	19.8
11 27	6 49.34	+23 54.6	1.297	2.172	15.6	20.3	11 27	6 47.04	+23 33.3	1.207	2.088	16.1	19.6
12 7	6 41.15	+24 51.9	1.260	2.196	10.7	20.1	12 7	6 39.70	+23 0.0	1.160	2.098	11.0	19.3
12 17	6 30.16	+25 49.2	1.247	2.220	5.2	19.8	12 17	6 29.52	+22 25.1	1.135	2.108	5.4	19.0
12 27	6 17.87	+26 40.5	1.261	2.244	1.6	19.7	12 27	6 18.02	+21 48.8	1.136	2.119	0.9	18.8
1 6	6 6.08	+27 21.5	1.303	2.268	6.3	20.0	1 6	6 7.03	+21 12.7	1.163	2.130	6.5	19.2
1 16	5 56.39	+27 51.5	1.371	2.292	11.2	20.4	1 16	5 58.17	+20 39.5	1.215	2.142	11.8	19.5
1 26	5 49.95	+28 12.1	1.462	2.316	15.3	20.7	1 26	5 52.55	+20 11.8	1.290	2.154	16.3	19.8
<b>298415</b>	2003 <i>SF</i> <sub>322</sub>		12 26.0	6°51	4°9/26.9	18	<b>453951</b>	2012 <i>AA</i> <sub>7</sub>		12 26.0	9°02	0°9/26.1	17
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EPHEMERIDES

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>300496</b>	2007 <i>TL</i> <sub>155</sub>		12 26.0 136°81	7.4/25.5	18		<b>460406</b>	2014 <i>SG</i> <sub>116</sub>		12 26.0 279°03	0°1/26.0	18	
11 17	7 1.28	+45 16.1	2.445	3.164	14.0	21.7	11 17	6 46.63	+22 55.9	2.154	2.929	14.0	21.4
11 27	6 54.37	+46 22.4	2.374	3.181	11.9	21.6	11 27	6 42.54	+22 57.9	2.059	2.924	11.1	21.2
12 7	6 44.25	+47 18.1	2.325	3.197	9.7	21.5	12 7	6 36.04	+23 1.5	1.987	2.919	7.7	21.0
12 17	6 31.64	+47 56.1	2.302	3.212	7.9	21.4	12 17	6 27.65	+23 5.3	1.942	2.913	3.7	20.7
12 27	6 17.79	+48 11.0	2.307	3.226	7.4	21.4	12 27	6 18.25	+23 8.1	1.925	2.908	0.4	20.4
1 6	6 4.25	+48 1.5	2.341	3.239	8.3	21.5	1 6	6 8.92	+23 9.0	1.938	2.903	4.5	20.7
1 16	5 52.46	+47 29.9	2.402	3.252	10.2	21.6	1 16	6 0.69	+23 8.0	1.980	2.898	8.4	21.0
1 26	5 43.50	+46 42.2	2.488	3.264	12.2	21.8	1 26	5 54.46	+23 6.2	2.047	2.893	11.9	21.2
<b>468742</b>	2010 <i>VW</i> <sub>51</sub>		12 26.0 126°34	2°6/26.2	16		<b>280525</b>	2004 <i>PD</i> <sub>108</sub>		12 26.0 96°03	0°9/26.1	16	
11 17	6 54.44	+17 33.4	1.664	2.435	17.7	22.6	11 17	6 52.39	+20 27.6	1.756	2.531	16.7	21.7
11 27	6 48.99	+17 14.6	1.592	2.451	14.1	22.4	11 27	6 47.25	+20 32.1	1.689	2.552	13.2	21.5
12 7	6 40.53	+17 1.6	1.540	2.467	9.9	22.1	12 7	6 39.27	+20 40.8	1.643	2.573	9.1	21.3
12 17	6 29.80	+16 54.2	1.514	2.482	5.3	21.9	12 17	6 29.17	+20 52.1	1.622	2.593	4.5	21.1
12 27	6 18.00	+16 52.0	1.516	2.496	2.6	21.8	12 27	6 18.10	+21 4.1	1.630	2.613	1.0	20.9
1 6	6 6.56	+16 54.7	1.548	2.509	6.0	22.0	1 6	6 7.41	+21 15.7	1.667	2.632	5.2	21.2
1 16	5 56.78	+17 1.8	1.607	2.522	10.3	22.3	1 16	5 58.30	+21 26.3	1.733	2.651	9.4	21.5
1 26	5 49.64	+17 13.0	1.690	2.533	14.1	22.6	1 26	5 51.69	+21 36.5	1.823	2.670	13.1	21.8
<b>302711</b>	2002 <i>TP</i> <sub>221</sub>		12 26.0 87°27	5°4/26.2	18		<b>310169</b>	2011 <i>SD</i> <sub>7</sub>		12 26.0 200°18	1°4/26.0	18	
11 17	6 47.86	+10 47.2	1.890	2.652	16.2	20.5	11 17	6 52.37	+27 56.8	2.115	2.881	14.5	20.9
11 27	6 43.40	+9 56.2	1.817	2.665	13.2	20.3	11 27	6 47.15	+27 54.6	2.020	2.878	11.6	20.7
12 7	6 36.51	+9 14.0	1.766	2.678	9.9	20.1	12 7	6 39.22	+27 49.8	1.947	2.875	8.0	20.5
12 17	6 27.79	+8 43.2	1.740	2.690	6.7	20.0	12 17	6 29.20	+27 39.9	1.901	2.871	4.1	20.3
12 27	6 18.22	+8 25.9	1.741	2.703	5.4	19.9	12 27	6 18.10	+27 23.2	1.885	2.866	1.5	20.1
1 6	6 8.92	+8 22.4	1.770	2.715	7.1	20.0	1 6	6 7.14	+26 59.5	1.899	2.861	4.9	20.3
1 16	6 0.91	+8 32.1	1.827	2.728	10.2	20.2	1 16	5 57.50	+26 30.3	1.942	2.856	8.8	20.5
1 26	5 55.00	+8 52.7	1.908	2.740	13.2	20.5	1 26	5 50.14	+25 58.7	2.011	2.850	12.3	20.7
<b>276448</b>	2003 <i>FP</i> <sub>8</sub>		12 26.0 264°19	20°1/25.5	17		<b>325594</b>	2009 <i>SD</i> <sub>158</sub>		12 26.0 270°77	3°8/26.1	18	
11 17	6 48.76	-10 47.3	1.198	1.921	25.7	20.7	11 17	6 45.41	+13 47.0	2.219	2.982	14.0	21.0
11 27	6 45.74	-13 37.8	1.139	1.917	23.7	20.5	11 27	6 41.34	+13 6.4	2.125	2.976	11.4	20.8
12 7	6 39.07	-16 1.1	1.095	1.914	21.8	20.4	12 7	6 35.09	+12 31.0	2.053	2.970	8.3	20.6
12 17	6 29.39	-17 42.4	1.067	1.910	20.5	20.3	12 17	6 27.15	+12 2.5	2.007	2.965	5.3	20.4
12 27	6 18.02	-18 29.3	1.057	1.906	20.1	20.2	12 27	6 18.33	+11 42.4	1.990	2.959	3.9	20.3
1 6	6 6.73	-18 17.3	1.064	1.902	20.8	20.3	1 6	6 9.58	+11 31.4	2.002	2.954	5.8	20.4
1 16	5 57.22	-17 10.1	1.088	1.898	22.4	20.3	1 16	6 1.82	+11 29.5	2.042	2.948	9.0	20.6
1 26	5 50.87	-15 18.5	1.127	1.894	24.4	20.5	1 26	5 55.87	+11 36.1	2.108	2.942	12.0	20.8
<b>448576</b>	2010 <i>TH</i> <sub>12</sub>		12 26.0 69°37	1°2/26.1	18		<b>399534</b>	2003 <i>KQ</i> <sub>19</sub>		12 26.0 210°18	9°1/24.6	17	
11 17	6 47.87	+21 4.7	1.936	2.714	15.3	21.6	11 17	6 56.45	+12 43.8	1.261	2.043	21.7	20.2
11 27	6 43.59	+20 47.9	1.855	2.720	12.1	21.4	11 27	6 51.61	+10 24.8	1.182	2.040	18.0	19.9
12 7	6 36.74	+20 33.1	1.795	2.726	8.4	21.2	12 7	6 42.96	+8 6.4	1.122	2.037	13.9	19.7
12 17	6 27.95	+20 20.0	1.761	2.732	4.2	21.0	12 17	6 31.22	+5 57.4	1.086	2.034	10.2	19.5
12 27	6 18.20	+20 8.2	1.755	2.738	1.2	20.8	12 27	6 17.88	+4 7.8	1.076	2.030	9.2	19.4
1 6	6 8.67	+19 57.6	1.779	2.744	5.0	21.1	1 6	6 4.80	+2 46.0	1.091	2.026	11.8	19.5
1 16	6 0.45	+19 48.9	1.831	2.750	9.0	21.3	1 16	5 53.74	+1 55.5	1.131	2.021	15.9	19.8
1 26	5 54.42	+19 42.7	1.908	2.756	12.5	21.5	1 26	5 46.02	+1 35.0	1.192	2.016	20.0	20.0
<b>315748</b>	2008 <i>FM</i> <sub>14</sub>		12 26.0 20°48	3°5/25.8	17		<b>66243</b>	1999 <i>FV</i> <sub>28</sub>		12 26.0 154°25	3°3/26.3	18	
11 17	6 49.76	+31 29.5	1.912	2.690	15.5	21.1	11 17	6 52.82	+15 10.7	1.786	2.551	16.9	19.2
11 27	6 45.52	+31 59.2	1.828	2.691	12.4	20.9	11 27	6 47.64	+14 53.5	1.705	2.559	13.6	19.0
12 7	6 38.33	+32 25.7	1.766	2.692	8.8	20.7	12 7	6 39.63	+14 43.6	1.645	2.567	9.7	18.8
12 17	6 28.82	+32 44.6	1.729	2.693	5.2	20.5	12 17	6 29.42	+14 41.6	1.610	2.574	5.6	18.5
12 27	6 18.10	+32 52.1	1.720	2.694	3.5	20.4	12 27	6 18.10	+14 47.4	1.604	2.581	3.3	18.4
1 6	6 7.55	+32 46.8	1.739	2.696	6.0	20.5	1 6	6 6.99	+15 0.1	1.627	2.586	6.1	18.6
1 16	5 58.47	+32 29.8	1.786	2.697	9.7	20.7	1 16	5 57.32	+15 18.7	1.679	2.591	10.1	18.8
1 26	5 51.92	+32 4.6	1.858	2.699	13.1	21.0	1 26	5 50.07	+15 42.0	1.755	2.595	13.8	19.1
<b>276257</b>	2002 <i>RH</i> <sub>242</sub>		12 26.0 111°34	0°3/26.0	18		<b>362512</b>	2010 <i>TU</i> <sub>84</sub>		12 26.0 158°27	0°4/26.1	18	
11 17	6 46.84	+22 40.8	2.614	3.376	12.2	21.1	11 17	6 48.06	+21 44.8	2.097	2.870	14.4	21.9
11 27	6 42.03	+22 35.3	2.533	3.390	9.6	20.9	11 27	6 43.67	+21 50.7	2.009	2.872	11.4	21.7
12 7	6 35.28	+22 30.7	2.476	3.404	6.5	20.7	12 7	6 36.80	+21 59.4	1.943	2.874	7.9	21.5
12 17	6 27.12	+22 26.0	2.446	3.417	3.2	20.5	12 17	6 28.03	+22 9.5	1.904	2.875	3.9	21.2
12 27	6 18.30	+22 20.6	2.447	3.430	0.4	20.3	12 27	6 18.27	+22 19.4	1.894	2.877	0.5	21.0
1 6	6 9.68	+22 14.2	2.479	3.443	3.8	20.6	1 6	6 8.62	+22 28.0	1.914	2.878	4.6	21.3
1 16	6 2.05	+22 7.2	2.541	3.456	7.0	20.8	1 16	6 0.14	+22 35.1	1.962	2.880	8.5	21.5
1 26	5 56.07	+22 0.4	2.630	3.468	9.8	21.0	1 26	5 53.73	+22 41.2	2.036	2.881	12.0	21.8
<b>491467</b>	2012 <i>HJ</i> <sub>10</sub>		12 26.0 61°95	2°2/26.5	17		<b>88559</b>	2001 <i>QB</i> <sub>219</sub>		12 26.0 2°25	0°3/26.1	18	
11 17	6 45.68	+15 3.4	2.172	2.938	14.2	21.2	11 17	6 47.51	+22 32.7	1.814	2.599	15.9	19.8
11 27	6 41.59	+15 19.5	2.088	2.945	11.3	21.0	11 27	6 43.66	+22 32.4	1.729	2.598	12.6	19.6
12 7	6 35.26	+15 43.8	2.027	2.951	8.0	20.8	12 7	6 37.02	+22 34.4	1.665	2.598	8.7	19.4
12 17	6 27.22	+16 15.5	1.992	2.958	4.4	20.6	12 17	6 28.20	+22 37.1	1.626	2.598	4.3	19.1
12 27	6 18.28	+16 53.2	1.986	2.965	2.2	20.5	12 27	6 18.25	+22 39.1	1.616	2.599	0.5	18.8
1 6	6 9.45	+17 34.7	2.010	2.972	4.8	20.7	1 6	6 8.44	+22 39.6	1.633	2.599	5.1	19.2
1 16	6 1.66	+18 18.1	2.063	2.979	8.3	20.9	1 16	5 59.99	+22 38.7	1.679	2.600	9.5	19.4
1 26	5 55.73	+19 1.6	2.142	2.986	11.5	21.1	1 26	5 53.90	+22 37.4	1.749	2.601	13.3	19.7
<b>454775</b>	2014 <i>WH</i> <sub>400</sub>		12 26.0 48°13	1°8/26.1	17		<b>462755</b>	2010 <i>CW</i> <sub>167</sub>		12 26.0 252°46	5°2/25.8		

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12 26.0

12 26.0

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>409413</b>	2005 <i>GO</i> <sub>168</sub>		12 26.0 161°58	16°4/25.4	17		<b>107733</b>	2001 <i>FO</i> <sub>28</sub>		12 26.0 63°42	6°8/27.1	18	
11 17	6 51.08	- 5 15.2	1.312	2.045	23.4	21.4	11 17	6 47.22	+ 6 18.7	1.676	2.436	18.0	19.1
11 27	6 47.13	- 7 52.0	1.250	2.047	20.9	21.3	11 27	6 43.25	+ 5 49.3	1.608	2.450	14.9	18.9
12 7	6 39.76	-10 7.4	1.205	2.049	18.6	21.1	12 7	6 36.61	+ 5 35.2	1.560	2.464	11.5	18.7
12 17	6 29.65	-11 48.8	1.179	2.051	16.9	21.0	12 17	6 27.95	+ 5 39.2	1.535	2.478	8.3	18.6
12 27	6 18.09	-12 45.8	1.174	2.052	16.4	21.0	12 27	6 18.32	+ 6 2.3	1.536	2.492	6.8	18.5
1 6	6 6.72	-12 54.3	1.190	2.053	17.3	21.1	1 6	6 8.96	+ 6 43.0	1.565	2.507	8.2	18.6
1 16	5 57.09	-12 17.3	1.226	2.054	19.2	21.2	1 16	6 0.99	+ 7 37.9	1.619	2.521	11.2	18.8
1 26	5 50.41	-11 3.6	1.279	2.055	21.5	21.3	1 26	5 55.31	+ 8 42.3	1.698	2.536	14.3	19.1
<b>376170</b>	2011 <i>CL</i> <sub>9</sub>		12 26.0 238°45	1°4/26.2	18		<b>65279</b>	2002 <i>GJ</i> <sub>108</sub>		12 26.0 107°08	3°4/26.6	18	
11 17	6 45.49	+18 6.2	2.779	3.536	11.7	21.6	11 17	6 45.61	+12 14.2	2.291	3.048	13.8	19.8
11 27	6 41.08	+18 7.2	2.670	3.523	9.3	21.4	11 27	6 41.35	+12 5.9	2.209	3.056	11.2	19.6
12 7	6 34.78	+18 12.1	2.585	3.509	6.5	21.2	12 7	6 35.01	+12 5.8	2.148	3.064	8.1	19.5
12 17	6 27.00	+18 20.5	2.527	3.495	3.4	21.0	12 17	6 27.11	+12 14.5	2.114	3.072	5.0	19.3
12 27	6 18.39	+18 31.7	2.500	3.481	1.4	20.8	12 27	6 18.41	+12 32.0	2.108	3.079	3.4	19.2
1 6	6 9.75	+18 45.0	2.504	3.466	4.0	21.0	1 6	6 9.84	+12 57.2	2.132	3.087	5.3	19.3
1 16	6 1.86	+18 59.7	2.538	3.451	7.1	21.1	1 16	6 2.27	+13 28.6	2.186	3.094	8.3	19.5
1 26	5 55.43	+19 15.6	2.599	3.435	10.0	21.3	1 26	5 56.43	+14 4.4	2.265	3.102	11.2	19.7
<b>312861</b>	2011 <i>UO</i> <sub>126</sub>		12 26.0 358°83	0°8/26.0	17		<b>230826</b>	2004 <i>NX</i> <sub>13</sub>		12 26.0 101°45	2°5/26.3	18	
11 17	6 48.21	+26 4.6	1.610	2.404	17.2	20.6	11 17	6 50.59	+16 19.1	1.698	2.474	17.2	20.9
11 27	6 44.63	+25 56.7	1.528	2.402	13.7	20.4	11 27	6 46.01	+16 18.7	1.625	2.487	13.7	20.7
12 7	6 37.90	+25 47.4	1.466	2.401	9.5	20.2	12 7	6 38.57	+16 26.4	1.573	2.500	9.6	20.5
12 17	6 28.69	+25 34.7	1.429	2.401	4.7	19.9	12 17	6 28.93	+16 41.6	1.546	2.513	5.2	20.3
12 27	6 18.21	+25 17.0	1.418	2.401	0.9	19.6	12 27	6 18.22	+17 3.0	1.546	2.526	2.5	20.1
1 6	6 7.96	+24 54.4	1.435	2.401	5.6	19.9	1 6	6 7.77	+17 28.8	1.576	2.538	5.7	20.4
1 16	5 59.33	+24 28.6	1.479	2.402	10.3	20.2	1 16	5 58.82	+17 57.4	1.632	2.550	9.9	20.6
1 26	5 53.40	+24 2.4	1.547	2.404	14.4	20.5	1 26	5 52.35	+18 27.5	1.714	2.562	13.7	20.9
<b>359288</b>	2009 <i>HE</i> <sub>30</sub>		12 26.0 178°59	3°0/26.4	18		<b>220037</b>	2002 <i>RT</i> <sub>35</sub>		12 26.0 143°87	1°4/26.0	18	
11 17	6 47.56	+14 17.9	2.181	2.941	14.3	22.1	11 17	6 54.89	+27 17.6	1.719	2.495	17.0	20.7
11 27	6 43.08	+14 6.5	2.091	2.942	11.5	22.0	11 27	6 49.62	+27 18.4	1.639	2.503	13.5	20.4
12 7	6 36.31	+14 2.2	2.023	2.943	8.3	21.7	12 7	6 41.16	+27 17.2	1.581	2.511	9.3	20.2
12 17	6 27.78	+14 5.3	1.981	2.943	4.9	21.5	12 17	6 30.23	+27 11.1	1.547	2.518	4.7	20.0
12 27	6 18.32	+14 15.8	1.968	2.944	3.0	21.4	12 27	6 18.09	+26 57.5	1.542	2.524	1.5	19.7
1 6	6 8.95	+14 32.9	1.986	2.943	5.3	21.6	1 6	6 6.28	+26 36.4	1.567	2.530	5.6	20.0
1 16	6 0.63	+14 55.5	2.032	2.943	8.7	21.8	1 16	5 56.19	+26 9.8	1.619	2.536	10.1	20.3
1 26	5 54.19	+15 22.3	2.103	2.942	11.9	22.0	1 26	5 48.89	+25 41.0	1.696	2.541	14.0	20.6
<b>84048</b>	2002 <i>PS</i> <sub>60</sub>		12 26.0 48°92	3°3/26.5	18		<b>307284</b>	2002 <i>PJ</i> <sub>81</sub>		12 26.0 154°67	5°3/26.6	18	
11 17	6 49.47	+14 51.6	1.254	2.053	20.9	19.2	11 17	6 47.87	+ 7 53.8	2.241	2.982	14.5	21.7
11 27	6 45.96	+14 53.9	1.195	2.069	16.7	19.0	11 27	6 43.12	+ 7 20.5	2.157	2.989	12.0	21.6
12 7	6 38.94	+15 8.8	1.154	2.086	11.8	18.7	12 7	6 36.22	+ 6 57.2	2.095	2.996	9.2	21.4
12 17	6 29.20	+15 35.9	1.135	2.103	6.5	18.5	12 17	6 27.70	+ 6 46.0	2.059	3.002	6.5	21.3
12 27	6 18.17	+16 13.0	1.142	2.121	3.3	18.3	12 27	6 18.36	+ 6 48.2	2.051	3.007	5.4	21.2
1 6	6 7.57	+16 56.9	1.174	2.139	6.9	18.6	1 6	6 9.16	+ 7 3.5	2.073	3.012	6.7	21.3
1 16	5 58.94	+17 44.0	1.232	2.157	11.8	18.9	1 16	6 0.98	+ 7 30.6	2.123	3.017	9.3	21.5
1 26	5 53.40	+18 31.9	1.313	2.176	16.1	19.3	1 26	5 54.61	+ 8 7.2	2.199	3.020	12.1	21.6
<b>418853</b>	2008 <i>WJ</i> <sub>87</sub>		12 26.0 189°47	3°4/25.3	18		<b>8937</b>	Gassan		12 26.0 123°81	1°9/26.2	18	
11 17	6 49.12	+33 13.6	2.931	3.682	11.2	21.5	11 17	6 52.76	+18 14.8	1.713	2.486	17.2	17.6
11 27	6 44.08	+34 6.3	2.836	3.681	9.0	21.3	11 27	6 47.70	+18 9.3	1.638	2.500	13.7	17.3
12 7	6 36.92	+34 56.8	2.766	3.680	6.6	21.1	12 7	6 39.72	+18 9.7	1.585	2.513	9.5	17.1
12 17	6 28.07	+35 41.2	2.723	3.678	4.3	21.0	12 17	6 29.49	+18 15.2	1.557	2.526	5.0	16.9
12 27	6 18.29	+36 16.2	2.711	3.676	3.4	20.9	12 27	6 18.18	+18 24.6	1.557	2.538	2.0	16.7
1 6	6 8.48	+36 39.7	2.730	3.674	5.0	21.0	1 6	6 7.16	+18 36.7	1.586	2.550	5.6	17.0
1 16	5 59.56	+36 51.5	2.779	3.671	7.4	21.2	1 16	5 57.70	+18 50.9	1.644	2.561	9.9	17.3
1 26	5 52.32	+36 53.2	2.854	3.667	9.8	21.3	1 26	5 50.79	+19 6.9	1.726	2.571	13.7	17.5
<b>305931</b>	2009 <i>FE</i> <sub>73</sub>		12 26.0 310°85	2°8/25.8	17		<b>492189</b>	2013 <i>RS</i> <sub>28</sub>		12 26.0 180°97	4°5/26.6	18	
11 17	6 48.62	+28 49.5	1.711	2.500	16.6	20.6	11 17	6 43.58	+ 5 57.7	3.217	3.938	10.9	22.5
11 27	6 45.10	+29 19.1	1.619	2.489	13.3	20.4	11 27	6 39.13	+ 5 28.6	3.123	3.939	9.1	22.4
12 7	6 38.38	+29 48.3	1.547	2.479	9.4	20.1	12 7	6 33.19	+ 5 7.4	3.052	3.940	7.1	22.2
12 17	6 29.03	+30 12.7	1.500	2.469	5.2	19.9	12 17	6 26.15	+ 4 55.6	3.008	3.940	5.3	22.1
12 27	6 18.17	+30 28.0	1.480	2.459	2.9	19.7	12 27	6 18.54	+ 4 54.3	2.994	3.939	4.5	22.1
1 6	6 7.31	+30 31.9	1.488	2.449	6.2	19.9	1 6	6 10.99	+ 5 3.4	3.010	3.938	5.4	22.1
1 16	5 57.94	+30 24.8	1.523	2.440	10.6	20.1	1 16	6 4.09	+ 5 22.3	3.056	3.937	7.2	22.2
1 26	5 51.29	+30 9.7	1.581	2.431	14.6	20.3	1 26	5 58.38	+ 5 49.5	3.128	3.935	9.2	22.4
<b>462468</b>	2008 <i>UH</i> <sub>182</sub>		12 26.0 59°61	0°5/26.1	16		<b>421165</b>	2013 <i>RL</i> <sub>44</sub>		12 26.0 191°44	0°4/26.1	18	
11 17	6 46.12	+21 19.5	2.188	2.962	13.9	21.8	11 17	6 46.50	+23 6.7	2.542	3.308	12.4	20.5
11 27	6 41.90	+21 24.9	2.113	2.976	10.9	21.6	11 27	6 41.97	+22 50.7	2.448	3.307	9.8	20.3
12 7	6 35.44	+21 33.2	2.060	2.990	7.5	21.4	12 7	6 35.40	+22 34.7	2.378	3.307	6.7	20.1
12 17	6 27.31	+21 43.0	2.033	3.005	3.7	21.2	12 17	6 27.30	+22 18.2	2.335	3.306	3.3	19.9
12 27	6 18.39	+21 53.0	2.036	3.019	0.6	21.0	12 27	6 18.43	+22 0.7	2.322	3.305	0.5	19.6
1 6	6 9.68	+22 2.4	2.069	3.034	4.3	21.3	1 6	6 9.69	+21 42.5	2.340	3.304	4.0	19.9
1 16	6 2.11	+22 10.8	2.130	3.049	7.9	21.5	1 16	6 1.92	+21 24.3	2.387	3.303	7.3	20.1
1 26	5 56.46	+22 18.6	2.218	3.063	11.1	21.8	1 26	5 55.84	+21 7.3	2.462	3.301	10.3	20.3
<b>405518</b>	2005 <i>CJ</i> <sub>67</sub>		12 26.0 345°45	5°8/27.1	18		<b>418789</b>	2008 <i>UR</i> <sub>337</sub>		12 26.0 293°70	3°2/26.1	16	

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12 26.0

12 26.1

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>394940</b>	2008 <i>XT</i> <sub>41</sub>		12 26.0	30°49'	2°8'/25.8	18	<b>85126</b>	1978 <i>VO</i> <sub>10</sub>		12 26.1	12°51'	2°9'/25.6	18
11 17	6 49.28	+27 52.0	1.395	2.198	19.0	20.9	11 17	6 46.85	+25 38.0	1.341	2.151	19.2	19.2
11 27	6 45.98	+28 23.8	1.328	2.206	15.1	20.7	11 27	6 44.34	+26 40.6	1.271	2.154	15.3	18.9
12 7	6 39.09	+28 55.5	1.280	2.215	10.5	20.4	12 7	6 38.18	+27 48.3	1.220	2.158	10.6	18.7
12 17	6 29.36	+29 22.1	1.255	2.225	5.6	20.2	12 17	6 29.04	+28 55.0	1.192	2.163	5.6	18.4
12 27	6 18.21	+29 38.9	1.256	2.236	2.8	20.0	12 27	6 18.27	+29 53.7	1.190	2.170	3.0	18.3
1 6	6 7.41	+29 43.8	1.284	2.247	6.6	20.3	1 6	6 7.65	+30 39.2	1.214	2.177	7.0	18.5
1 16	5 58.56	+29 37.8	1.337	2.259	11.3	20.6	1 16	5 58.89	+31 9.9	1.263	2.185	11.8	18.8
1 26	5 52.86	+29 24.4	1.413	2.272	15.4	20.9	1 26	5 53.32	+31 27.8	1.334	2.194	16.1	19.1
<b>199586</b>	2006 <i>FH</i> <sub>14</sub>		12 26.0	186°70'	4°1'/26.4	18	<b>310550</b>	2001 <i>FY</i> <sub>151</sub>		12 26.1	182°51'	6°2'/27.4	18
11 17	6 44.20	+9 52.9	2.711	3.454	12.2	21.4	11 17	6 43.79	-2 18.9	3.327	4.010	11.2	21.8
11 27	6 39.95	+9 26.3	2.618	3.454	10.0	21.2	11 27	6 39.24	-2 44.1	3.234	4.010	9.7	21.7
12 7	6 33.93	+9 7.0	2.548	3.453	7.5	21.1	12 7	6 33.26	-2 57.6	3.164	4.010	8.1	21.6
12 17	6 26.57	+8 56.4	2.504	3.452	5.1	20.9	12 17	6 26.20	-2 57.4	3.119	4.010	6.8	21.5
12 27	6 18.52	+8 55.4	2.490	3.451	4.1	20.8	12 27	6 18.59	-2 42.2	3.102	4.009	6.2	21.5
1 6	6 10.54	+9 3.8	2.506	3.450	5.4	20.9	1 6	6 11.03	-2 12.4	3.115	4.007	6.7	21.5
1 16	6 3.34	+9 21.0	2.551	3.448	7.8	21.1	1 16	6 4.08	-1 29.2	3.156	4.005	8.0	21.6
1 26	5 57.58	+9 45.6	2.622	3.446	10.3	21.2	1 26	5 58.27	-0 35.2	3.223	4.003	9.6	21.7
<b>489188</b>	2006 <i>HZ</i> <sub>27</sub>		12 26.0	173°37'	7°6'/26.3	17	<b>62684</b>	2000 <i>TJ</i> <sub>19</sub>		12 26.1	44°48'	4°6'/25.4	18
11 17	6 43.71	-3 39.2	3.048	3.730	12.2	22.1	11 17	6 50.40	+31 42.6	1.758	2.540	16.4	18.6
11 27	6 39.31	-4 46.8	2.963	3.732	10.7	22.0	11 27	6 46.33	+32 49.1	1.689	2.553	13.2	18.4
12 7	6 33.36	-5 42.8	2.901	3.734	9.2	21.9	12 7	6 39.08	+33 53.7	1.641	2.566	9.5	18.2
12 17	6 26.25	-6 23.8	2.864	3.736	8.0	21.8	12 17	6 29.32	+34 50.0	1.619	2.579	6.0	18.1
12 27	6 18.56	-6 47.2	2.854	3.737	7.6	21.8	12 27	6 18.26	+35 32.2	1.624	2.593	4.6	18.0
1 6	6 10.93	-6 52.1	2.871	3.738	8.1	21.8	1 6	6 7.43	+35 57.2	1.657	2.607	7.0	18.2
1 16	6 4.00	-6 39.4	2.915	3.738	9.4	21.9	1 16	5 58.23	+36 5.4	1.717	2.622	10.4	18.4
1 26	5 58.31	-6 11.1	2.983	3.738	10.9	22.0	1 26	5 51.79	+36 0.3	1.800	2.636	13.7	18.7
<b>167263</b>	2003 <i>UC</i> <sub>127</sub>		12 26.0	80°58'	2°1'/25.9	18	<b>367871</b>	2011 <i>DL</i> <sub>24</sub>		12 26.1	32°35'	0°9'/26.2	17
11 17	6 52.81	+27 15.8	1.754	2.533	16.6	20.9	11 17	6 46.15	+18 29.9	2.016	2.791	14.8	20.5
11 27	6 47.83	+27 46.9	1.689	2.554	13.1	20.7	11 27	6 42.28	+18 57.7	1.932	2.796	11.8	20.3
12 7	6 39.82	+28 17.7	1.645	2.575	9.0	20.5	12 7	6 35.96	+19 32.4	1.871	2.801	8.1	20.1
12 17	6 29.54	+28 44.0	1.626	2.596	4.7	20.3	12 17	6 27.71	+20 12.3	1.836	2.806	4.1	19.8
12 27	6 18.21	+29 2.2	1.636	2.616	2.2	20.2	12 27	6 18.45	+20 54.9	1.829	2.812	0.9	19.6
1 6	6 7.27	+29 10.6	1.675	2.637	5.6	20.5	1 6	6 9.27	+21 37.5	1.852	2.818	4.7	19.9
1 16	5 58.01	+29 9.9	1.742	2.657	9.6	20.8	1 16	6 1.24	+22 18.2	1.904	2.824	8.6	20.1
1 26	5 51.41	+29 2.9	1.833	2.677	13.1	21.0	1 26	5 55.25	+22 56.0	1.981	2.830	12.1	20.4
<b>382720</b>	2002 <i>XO</i> <sub>79</sub>		12 26.0	31°18'	2°1'/26.7	18	<b>516988</b>	2012 <i>QY</i> <sub>52</sub>		12 26.1	17°46'	3°4'/26.0	18
11 17	7 5.53	+37 22.2	1.033	1.831	24.5	18.6	11 17	6 50.03	+30 22.0	1.294	2.101	20.0	21.0
11 27	6 59.10	+35 24.6	0.977	1.850	19.7	18.4	11 27	6 46.97	+30 36.7	1.224	2.104	16.0	20.7
12 7	6 47.78	+33 2.2	0.939	1.872	13.8	18.1	12 7	6 39.99	+30 47.2	1.173	2.108	11.3	20.5
12 17	6 33.20	+30 14.6	0.924	1.894	7.2	17.8	12 17	6 29.89	+30 48.6	1.144	2.113	6.2	20.2
12 27	6 17.88	+27 9.8	0.936	1.918	2.1	17.6	12 27	6 18.22	+30 36.7	1.140	2.119	3.4	20.0
1 6	6 4.33	+24 3.2	0.976	1.944	7.3	18.0	1 6	6 6.97	+30 11.0	1.162	2.126	7.1	20.3
1 16	5 54.28	+21 11.4	1.043	1.970	13.2	18.4	1 16	5 57.88	+29 34.8	1.209	2.133	12.0	20.6
1 26	5 48.55	+18 45.2	1.133	1.997	18.0	18.8	1 26	5 52.24	+28 53.3	1.278	2.141	16.4	20.9
<b>435419</b>	2008 <i>BO</i> <sub>35</sub>		12 26.0	306°00'	3°2'/26.4	18	<b>120213</b>	2004 <i>EF</i> <sub>56</sub>		12 26.1	253°55'	1°3'/26.1	18
11 17	6 47.14	+15 56.0	1.331	2.131	19.8	21.1	11 17	6 51.07	+20 47.6	1.749	2.527	16.7	20.4
11 27	6 44.55	+15 50.7	1.240	2.117	16.1	20.8	11 27	6 46.80	+20 32.9	1.647	2.512	13.4	20.2
12 7	6 38.41	+15 55.9	1.169	2.102	11.5	20.5	12 7	6 39.47	+20 20.7	1.566	2.497	9.4	19.9
12 17	6 29.23	+16 12.5	1.119	2.088	6.4	20.1	12 17	6 29.59	+20 10.5	1.510	2.481	4.8	19.6
12 27	6 18.22	+16 39.5	1.094	2.074	3.2	19.9	12 27	6 18.24	+20 1.4	1.482	2.464	1.4	19.3
1 6	6 7.04	+17 14.8	1.096	2.061	7.2	20.1	1 6	6 6.82	+19 53.2	1.483	2.447	5.7	19.6
1 16	5 57.45	+17 55.6	1.122	2.048	12.6	20.4	1 16	5 56.72	+19 46.5	1.511	2.430	10.5	19.8
1 26	5 50.90	+18 39.8	1.169	2.035	17.5	20.6	1 26	5 49.16	+19 42.3	1.564	2.412	14.8	20.0
<b>167687</b>	2004 <i>LX</i>		12 26.0	140°51'	15°4'/25.2	18	<b>441235</b>	2007 <i>VH</i> <sub>188</sub>		12 26.1	48°32'	5°7'/24.9	17
11 17	6 55.37	-1 49.5	1.259	2.001	23.7	20.5	11 17	6 52.59	+32 23.5	1.612	2.397	17.6	20.9
11 27	6 50.52	-4 34.8	1.200	2.010	20.9	20.3	11 27	6 48.54	+33 54.8	1.543	2.407	14.2	20.7
12 7	6 42.07	-7 1.1	1.159	2.018	18.1	20.2	12 7	6 40.91	+35 25.2	1.496	2.419	10.4	20.5
12 17	6 30.78	-8 55.5	1.138	2.026	16.0	20.1	12 17	6 30.34	+36 46.2	1.473	2.430	6.9	20.3
12 27	6 18.08	-10 7.0	1.139	2.033	15.5	20.1	12 27	6 18.17	+37 49.7	1.478	2.442	5.8	20.2
1 6	6 5.72	-10 31.3	1.163	2.040	16.6	20.2	1 6	6 6.14	+38 30.9	1.510	2.454	8.1	20.4
1 16	5 55.33	-10 11.1	1.207	2.045	18.8	20.3	1 16	5 55.94	+38 49.8	1.568	2.467	11.7	20.6
1 26	5 48.09	-9 15.2	1.269	2.050	21.4	20.5	1 26	5 48.87	+38 50.9	1.649	2.479	15.0	20.9
<b>175201</b>	2005 <i>EZ</i> <sub>323</sub>		12 26.1	186°44'	1°1'/26.1	18	<b>419395</b>	2010 <i>AA</i> <sub>26</sub>		12 26.1	340°00'	0°4'/26.0	17
11 17	6 50.22	+21 4.6	2.445	3.202	13.0	20.9	11 17	6 43.64	+23 32.2	1.822	2.615	15.6	20.6
11 27	6 44.93	+20 41.7	2.348	3.202	10.3	20.7	11 27	6 40.81	+23 43.8	1.728	2.603	12.4	20.4
12 7	6 37.45	+20 19.7	2.276	3.201	7.2	20.5	12 7	6 35.25	+23 58.0	1.656	2.591	8.5	20.1
12 17	6 28.32	+19 58.2	2.231	3.200	3.6	20.3	12 17	6 27.48	+24 12.7	1.608	2.581	4.2	19.9
12 27	6 18.36	+19 37.2	2.216	3.198	1.2	20.1	12 27	6 18.47	+24 26.0	1.587	2.571	0.6	19.6
1 6	6 8.52	+19 17.1	2.233	3.195	4.3	20.4	1 6	6 9.47	+24 36.1	1.595	2.561	5.1	19.9
1 16	5 59.72	+18 58.9	2.280	3.192	7.8	20.6	1 16	6 1.69	+24 42.8	1.630	2.553	9.5	20.1
1 26	5 52.74	+18 43.4	2.354	3.188	10.9	20.8	1 26	5 56.19	+24 46.8	1.688	2.546	13.4	20.3
<b>337840</b>	2001 <i>VT</i> <sub>75</sub>		12 26.1	81°88'	0°0'/26.1	16	<b>283332</b>	1998 <i>MW</i> <sub>17</sub>		12 26.1	99°40'	1°8'/26.3	

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>289964</b>	2005 <i>NA</i> <sub>84</sub>		12 26.1	18°11'	1°9'/26.1	17	<b>430840</b>	2005 <i>JH</i> <sub>121</sub>		12 26.1	203°56'	1°6'/26.2	18
11 17	6 49.86	+29 14.8	1.799	2.582	16.1	20.5	11 17	6 52.15	+18 43.5	1.859	2.628	16.2	22.6
11 27	6 45.63	+29 10.1	1.716	2.584	12.8	20.3	11 27	6 47.32	+18 41.1	1.765	2.624	12.9	22.4
12 7	6 38.44	+29 1.6	1.655	2.586	8.9	20.1	12 7	6 39.62	+18 43.9	1.692	2.619	9.1	22.1
12 17	6 28.96	+28 46.4	1.618	2.588	4.7	19.8	12 17	6 29.62	+18 51.1	1.645	2.614	4.7	21.9
12 27	6 18.35	+28 22.8	1.609	2.590	2.0	19.6	12 27	6 18.33	+19 1.6	1.626	2.608	1.7	21.7
1 6	6 8.01	+27 51.0	1.629	2.593	5.4	19.9	1 6	6 7.06	+19 14.1	1.637	2.601	5.4	21.9
1 16	5 59.23	+27 13.5	1.677	2.596	9.6	20.1	1 16	5 57.11	+19 27.9	1.677	2.593	9.8	22.1
1 26	5 53.01	+26 33.7	1.749	2.600	13.4	20.4	1 26	5 49.52	+19 43.1	1.742	2.585	13.7	22.4
<b>397881</b>	2008 <i>UR</i> <sub>119</sub>		12 26.1	26°98'	6°3'/25.6	18	<b>493065</b>	2014 <i>SK</i> <sub>287</sub>		12 26.1	73°53'	5°2'/25.6	17
11 17	6 48.73	+13 18.7	1.510	2.293	18.7	20.4	11 17	6 51.75	+37 2.4	2.193	2.953	14.3	21.0
11 27	6 44.86	+11 51.9	1.435	2.296	15.2	20.1	11 27	6 46.84	+37 55.6	2.123	2.969	11.6	20.8
12 7	6 37.96	+10 30.5	1.380	2.300	11.4	19.9	12 7	6 39.13	+38 42.5	2.075	2.984	8.7	20.7
12 17	6 28.73	+9 19.3	1.350	2.305	7.7	19.7	12 17	6 29.28	+39 17.9	2.053	3.000	6.2	20.5
12 27	6 18.38	+8 23.0	1.345	2.309	6.3	19.6	12 27	6 18.38	+39 37.1	2.059	3.015	5.3	20.5
1 6	6 8.31	+7 44.7	1.368	2.314	8.6	19.8	1 6	6 7.74	+39 38.8	2.094	3.031	6.8	20.6
1 16	5 59.84	+7 25.2	1.416	2.320	12.3	20.0	1 16	5 58.56	+39 24.4	2.156	3.046	9.4	20.8
1 26	5 53.97	+7 23.2	1.486	2.326	15.9	20.3	1 26	5 51.79	+38 57.8	2.244	3.062	12.0	21.0
<b>361963</b>	2008 <i>JZ</i> <sub>21</sub>		12 26.1	149°44'	3°7'/26.6	18	<b>179143</b>	2001 <i>SP</i> <sub>343</sub>		12 26.1	64°36'	1°8'/26.4	18
11 17	6 46.18	+11 30.8	2.293	3.046	13.9	21.7	11 17	6 47.42	+16 56.1	1.884	2.660	15.7	20.2
11 27	6 41.86	+11 21.0	2.206	3.051	11.3	21.5	11 27	6 43.38	+17 7.2	1.805	2.667	12.5	20.0
12 7	6 35.43	+11 19.9	2.141	3.054	8.3	21.4	12 7	6 36.76	+17 25.8	1.747	2.675	8.8	19.7
12 17	6 27.39	+11 28.3	2.102	3.058	5.2	21.2	12 17	6 28.14	+17 51.0	1.714	2.683	4.6	19.5
12 27	6 18.52	+11 46.1	2.092	3.062	3.7	21.1	12 27	6 18.50	+18 21.1	1.710	2.691	1.9	19.3
1 6	6 9.74	+12 12.4	2.112	3.065	5.5	21.2	1 6	6 9.00	+18 54.1	1.735	2.699	5.1	19.6
1 16	6 1.94	+12 45.7	2.160	3.068	8.5	21.4	1 16	6 0.77	+19 28.1	1.788	2.707	9.1	19.8
1 26	5 55.87	+13 24.0	2.235	3.071	11.4	21.6	1 26	5 54.71	+20 2.0	1.866	2.716	12.7	20.1
<b>466986</b>	2016 <i>BF</i> <sub>39</sub>		12 26.1	212°09'	12°5'/26.7	17	<b>495175</b>	2012 <i>MH</i>		12 26.1	196°04'	2°9'/26.7	18
11 17	7 10.64	+48 9.8	1.319	2.071	22.4	21.4	11 17	6 45.10	+11 7.9	2.933	3.673	11.5	21.9
11 27	7 5.25	+49 18.3	1.243	2.067	19.5	21.1	11 27	6 40.59	+11 14.8	2.834	3.670	9.3	21.7
12 7	6 53.78	+50 10.2	1.182	2.062	16.3	20.9	12 7	6 34.38	+11 29.6	2.757	3.668	6.8	21.5
12 17	6 37.05	+50 29.8	1.142	2.057	13.6	20.7	12 17	6 26.87	+11 52.3	2.709	3.664	4.3	21.4
12 27	6 17.51	+50 3.3	1.124	2.050	12.5	20.7	12 27	6 18.64	+12 22.6	2.690	3.661	2.9	21.3
1 6	5 58.67	+48 47.5	1.130	2.044	13.8	20.7	1 6	6 10.42	+12 59.2	2.703	3.656	4.4	21.4
1 16	5 43.65	+46 51.8	1.160	2.036	16.7	20.9	1 16	6 2.91	+13 40.6	2.747	3.652	7.0	21.5
1 26	5 34.26	+44 33.1	1.210	2.028	20.1	21.1	1 26	5 56.73	+14 25.2	2.818	3.647	9.5	21.7
<b>417047</b>	2005 <i>UO</i> <sub>154</sub>		12 26.1	141°19'	2°9'/25.7	18	<b>48779</b>	Mariko		12 26.1	122°84'	0°5'/26.0	18
11 17	6 53.60	+28 31.6	1.768	2.545	16.6	21.7	11 17	6 49.85	+24 29.0	2.039	2.812	14.8	19.3
11 27	6 48.77	+29 13.7	1.688	2.552	13.2	21.4	11 27	6 45.17	+24 35.5	1.956	2.820	11.7	19.1
12 7	6 40.75	+29 55.7	1.630	2.558	9.3	21.2	12 7	6 37.91	+24 42.8	1.896	2.827	8.0	18.9
12 17	6 30.17	+30 32.7	1.597	2.564	5.1	21.0	12 17	6 28.68	+24 48.7	1.863	2.834	3.9	18.7
12 27	6 18.25	+30 59.8	1.592	2.570	3.0	20.9	12 27	6 18.46	+24 51.5	1.858	2.841	0.7	18.4
1 6	6 6.49	+31 14.5	1.616	2.575	6.1	21.1	1 6	6 8.45	+24 50.2	1.883	2.848	4.7	18.8
1 16	5 56.34	+31 17.0	1.668	2.580	10.2	21.3	1 16	5 59.73	+24 45.5	1.937	2.854	8.7	19.0
1 26	5 48.95	+31 10.4	1.744	2.584	13.9	21.6	1 26	5 53.21	+24 38.6	2.016	2.860	12.1	19.2
<b>46218</b>	2001 <i>FV</i> <sub>177</sub>		12 26.1	86°69'	4°2'/26.3	18	<b>265993</b>	2006 <i>DS</i> <sub>97</sub>		12 26.1	248°85'	7°2'/25.4	18
11 17	6 45.51	+11 43.8	2.302	3.057	13.8	19.1	11 17	6 53.47	+44 10.3	2.397	3.134	13.8	20.8
11 27	6 41.22	+11 5.8	2.223	3.068	11.2	19.0	11 27	6 48.50	+45 8.2	2.310	3.131	11.7	20.6
12 7	6 34.91	+10 34.9	2.167	3.079	8.3	18.8	12 7	6 40.49	+45 56.9	2.245	3.127	9.5	20.5
12 17	6 27.10	+10 12.7	2.136	3.089	5.5	18.6	12 17	6 30.06	+46 30.1	2.205	3.123	7.7	20.3
12 27	6 18.58	+10 0.3	2.135	3.100	4.2	18.6	12 27	6 18.31	+46 42.4	2.192	3.119	7.2	20.3
1 6	6 10.24	+9 58.2	2.163	3.111	5.8	18.7	1 6	6 6.67	+46 32.1	2.207	3.115	8.2	20.4
1 16	6 2.91	+10 5.6	2.219	3.121	8.6	18.9	1 16	5 56.51	+46 0.9	2.248	3.111	10.2	20.5
1 26	5 57.30	+10 21.3	2.301	3.131	11.3	19.1	1 26	5 48.91	+45 13.5	2.314	3.107	12.5	20.6
<b>126040</b>	2001 <i>YW</i> <sub>69</sub>		12 26.1	5°85'	1°5'/25.9	18	<b>151957</b>	2004 <i>GE</i> <sub>14</sub>		12 26.1	323°72'	2°6'/26.4	18
11 17	6 50.11	+25 21.1	1.588	2.379	17.6	19.8	11 17	6 49.16	+16 9.0	1.533	2.319	18.3	19.8
11 27	6 46.32	+25 46.4	1.506	2.379	14.0	19.6	11 27	6 45.49	+16 13.2	1.450	2.318	14.7	19.6
12 7	6 39.23	+26 13.9	1.445	2.379	9.7	19.3	12 7	6 38.64	+16 27.2	1.387	2.317	10.4	19.3
12 17	6 29.50	+26 39.9	1.408	2.379	4.9	19.0	12 17	6 29.23	+16 50.4	1.348	2.316	5.7	19.0
12 27	6 18.32	+27 0.5	1.398	2.380	1.6	18.8	12 27	6 18.40	+17 21.4	1.336	2.316	2.6	18.8
1 6	6 7.27	+27 13.3	1.415	2.380	5.9	19.1	1 6	6 7.64	+17 57.6	1.351	2.315	6.2	19.1
1 16	5 57.85	+27 18.3	1.460	2.381	10.6	19.4	1 16	5 58.40	+18 36.6	1.393	2.315	11.0	19.3
1 26	5 51.25	+27 17.6	1.528	2.382	14.8	19.6	1 26	5 51.86	+19 16.7	1.458	2.314	15.2	19.6
<b>389973</b>	2012 <i>TN</i> <sub>224</sub>		12 26.1	359°56'	2°6'/26.2	18	<b>357474</b>	2004 <i>FB</i> <sub>87</sub>		12 26.1	270°16'	5°4'/26.1	18
11 17	6 44.15	+18 20.3	1.212	2.029	20.5	20.7	11 17	6 46.48	+7 22.5	1.951	2.704	16.0	20.8
11 27	6 42.26	+18 5.4	1.139	2.026	16.4	20.4	11 27	6 42.57	+7 15.5	1.863	2.702	13.3	20.6
12 7	6 36.79	+17 58.0	1.084	2.023	11.5	20.1	12 7	6 36.20	+7 22.2	1.794	2.700	10.1	20.4
12 17	6 28.40	+17 58.5	1.051	2.023	6.1	19.8	12 17	6 27.90	+7 44.4	1.750	2.698	7.0	20.2
12 27	6 18.44	+18 6.4	1.042	2.023	2.6	19.6	12 27	6 18.55	+8 22.4	1.734	2.696	5.4	20.1
1 6	6 8.66	+18 20.2	1.058	2.025	7.0	19.9	1 6	6 9.22	+9 14.3	1.746	2.694	6.9	20.2
1 16	6 0.72	+18 38.9	1.097	2.028	12.3	20.2	1 16	6 0.98	+10 17.0	1.786	2.692	10.0	20.4
1 26	5 55.91	+19 1.1	1.158	2.032	17.0	20.5	1 26	5 54.75	+11 26.6	1.852	2.690	13.3	20.6
<b>293488</b>	2007 <i>FG</i> <sub>30</sub>		12 26.1	92°28'	3°2'/26.4	18	<b>275051</b>	2009 <i>UA</i> <sub>93</sub>		12 26.1	60°63'	1°0'/26.1	

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>9111</b>	Matarazzo		12 26.1	41°33'	5°0'/27.0	18	<b>415673</b>	2014 RP <sub>16</sub>		12 26.1	94°70'	7°2'/27.0	18
11 17	6 48.54	+10 39.6	1.246	2.039	21.3	16.6	11 17	6 46.42	+1 49.6	2.323	3.044	14.6	21.4
11 27	6 45.35	+10 44.7	1.183	2.051	17.3	16.3	11 27	6 41.81	+0 58.2	2.256	3.064	12.4	21.2
12 7	6 38.67	+11 7.6	1.137	2.063	12.6	16.1	12 7	6 35.26	+0 19.9	2.210	3.084	10.0	21.1
12 17	6 29.24	+11 49.1	1.114	2.076	7.8	15.9	12 17	6 27.30	-0 2.0	2.190	3.103	8.0	21.0
12 27	6 18.41	+12 47.4	1.115	2.089	5.0	15.8	12 27	6 18.69	-0 5.8	2.196	3.123	7.2	21.0
1 6	6 7.89	+13 57.6	1.142	2.103	7.7	16.0	1 6	6 10.31	+0 8.7	2.230	3.142	8.0	21.1
1 16	5 59.25	+15 14.2	1.194	2.117	12.2	16.2	1 16	6 2.94	+0 39.4	2.292	3.160	9.8	21.2
1 26	5 53.65	+16 31.9	1.269	2.132	16.5	16.5	1 26	5 57.25	+1 23.1	2.378	3.179	12.0	21.4
<b>368388</b>	2002 RW <sub>270</sub>		12 26.1	128°55'	1°1'/26.0	17	<b>198984</b>	2005 VJ <sub>67</sub>		12 26.1	252°54'	0°7'/26.0	18
11 17	6 47.69	+27 3.2	2.602	3.365	12.2	21.2	11 17	6 51.62	+24 40.6	1.814	2.592	16.2	21.1
11 27	6 42.91	+27 10.8	2.516	3.373	9.6	21.1	11 27	6 47.28	+24 48.9	1.712	2.577	13.0	20.9
12 7	6 36.08	+27 17.3	2.454	3.382	6.6	20.9	12 7	6 39.86	+24 58.6	1.631	2.562	9.0	20.6
12 17	6 27.70	+27 20.7	2.420	3.390	3.4	20.7	12 17	6 29.88	+25 7.0	1.575	2.546	4.5	20.3
12 27	6 18.58	+27 19.6	2.416	3.397	1.2	20.5	12 27	6 18.41	+25 11.6	1.547	2.530	0.9	20.0
1 6	6 9.62	+27 13.4	2.442	3.405	4.0	20.8	1 6	6 6.83	+25 10.7	1.549	2.514	5.5	20.3
1 16	6 1.68	+27 2.7	2.499	3.412	7.2	21.0	1 16	5 56.59	+25 4.9	1.578	2.497	10.2	20.5
1 26	5 55.47	+26 49.0	2.582	3.419	10.0	21.2	1 26	5 48.89	+24 56.0	1.632	2.479	14.3	20.7
<b>353374</b>	2011 KA <sub>20</sub>		12 26.1	42°63'	10°3'/30.4	18	<b>378632</b>	2008 FX <sub>107</sub>		12 26.1	341°18'	1°3'/25.9	18
11 17	6 54.41	-4 41.7	0.992	1.752	27.8	19.8	11 17	6 43.91	+22 55.8	1.081	1.910	21.6	20.6
11 27	6 50.86	-3 48.5	0.929	1.762	23.9	19.6	11 27	6 42.96	+23 31.3	1.003	1.898	17.3	20.3
12 7	6 43.01	-2 8.8	0.880	1.773	19.1	19.3	12 7	6 37.91	+24 15.2	0.942	1.886	12.1	20.0
12 17	6 31.57	+0 22.8	0.849	1.786	14.1	19.1	12 17	6 29.27	+25 3.6	0.901	1.876	6.0	19.6
12 27	6 18.16	+3 41.9	0.842	1.798	10.6	19.0	12 27	6 18.46	+25 50.6	0.884	1.867	1.5	19.3
1 6	6 4.97	+7 32.0	0.860	1.812	11.4	19.1	1 6	6 7.55	+26 30.8	0.890	1.859	7.5	19.6
1 16	5 54.10	+11 30.6	0.904	1.826	15.4	19.3	1 16	5 58.66	+27 1.4	0.919	1.853	13.6	19.9
1 26	5 47.10	+15 17.8	0.972	1.840	20.0	19.7	1 26	5 53.49	+27 23.2	0.968	1.849	19.0	20.2
<b>447693</b>	2007 CA <sub>48</sub>		12 26.1	21°47'	5°2'/26.8	17	<b>198721</b>	2005 CR <sub>74</sub>		12 26.1	256°53'	0°3'/26.1	18
11 17	6 44.22	+10 50.5	1.555	2.340	18.2	21.2	11 17	6 45.77	+21 22.4	2.535	3.301	12.4	21.1
11 27	6 41.26	+10 30.0	1.486	2.348	14.8	21.0	11 27	6 41.62	+21 36.8	2.431	3.290	9.9	20.9
12 7	6 35.50	+10 22.3	1.435	2.356	10.9	20.8	12 7	6 35.37	+21 54.3	2.351	3.280	6.8	20.6
12 17	6 27.58	+10 29.1	1.408	2.366	7.1	20.6	12 17	6 27.48	+22 13.6	2.298	3.269	3.4	20.4
12 27	6 18.59	+10 50.9	1.407	2.377	5.2	20.5	12 27	6 18.67	+22 33.2	2.274	3.258	0.4	20.1
1 6	6 9.82	+11 26.1	1.432	2.388	7.2	20.7	1 6	6 9.82	+22 51.7	2.282	3.246	4.0	20.4
1 16	6 2.48	+12 11.7	1.484	2.400	10.9	20.9	1 16	6 1.83	+23 8.5	2.319	3.235	7.5	20.6
1 26	5 57.54	+13 4.1	1.558	2.413	14.5	21.2	1 26	5 55.49	+23 23.5	2.382	3.224	10.6	20.8
<b>330225</b>	2006 JL <sub>26</sub>		12 26.1	153°54'	1°8'/26.1	18	<b>38003</b>	1998 KH <sub>44</sub>		12 26.1	152°49'	2°3'/26.2	18
11 17	6 45.84	+17 58.1	2.950	3.703	11.1	21.1	11 17	6 47.43	+16 38.7	2.721	3.472	12.0	19.3
11 27	6 41.07	+17 32.3	2.860	3.709	8.8	20.9	11 27	6 42.45	+16 10.5	2.633	3.480	9.6	19.1
12 7	6 34.62	+17 8.8	2.794	3.715	6.2	20.8	12 7	6 35.65	+15 45.5	2.568	3.488	6.8	19.0
12 17	6 26.94	+16 47.9	2.756	3.721	3.4	20.6	12 17	6 27.49	+15 24.3	2.532	3.495	3.9	18.8
12 27	6 18.67	+16 30.0	2.748	3.726	1.8	20.5	12 27	6 18.68	+15 7.4	2.526	3.502	2.3	18.7
1 6	6 10.52	+16 15.4	2.773	3.732	3.9	20.6	1 6	6 10.02	+14 55.0	2.551	3.508	4.3	18.8
1 16	6 3.19	+16 4.4	2.827	3.736	6.6	20.8	1 16	6 2.26	+14 47.5	2.606	3.513	7.2	19.0
1 26	5 57.26	+15 57.3	2.909	3.741	9.2	21.0	1 26	5 56.03	+14 44.7	2.689	3.519	9.9	19.2
<b>22580</b>	Kenkaplan		12 26.1	25°29'	3°2'/26.3	18	<b>453597</b>	2010 MA <sub>8</sub>		12 26.1	58°25'	4°9'/26.7	17
11 17	6 47.59	+17 24.4	1.160	1.973	21.4	18.3	11 17	6 48.10	+10 59.9	1.755	2.522	17.0	20.9
11 27	6 44.97	+17 1.5	1.096	1.979	17.2	18.1	11 27	6 43.75	+10 30.8	1.695	2.546	13.8	20.8
12 7	6 38.60	+16 47.0	1.049	1.986	12.1	17.8	12 7	6 36.87	+10 12.5	1.656	2.571	10.1	20.6
12 17	6 29.26	+16 41.7	1.024	1.994	6.6	17.6	12 17	6 28.15	+10 6.8	1.641	2.596	6.6	20.4
12 27	6 18.44	+16 45.6	1.023	2.003	3.3	17.4	12 27	6 18.63	+10 14.1	1.654	2.621	4.9	20.4
1 6	6 7.99	+16 57.3	1.047	2.013	7.3	17.7	1 6	6 9.48	+10 33.4	1.695	2.646	6.7	20.6
1 16	5 59.57	+17 15.7	1.095	2.023	12.6	18.0	1 16	6 1.75	+11 2.8	1.763	2.671	10.0	20.8
1 26	5 54.43	+17 39.2	1.164	2.034	17.2	18.3	1 26	5 56.24	+11 39.4	1.855	2.696	13.1	21.1
<b>355426</b>	2007 VP <sub>9</sub>		12 26.1	62°39'	3°0'/26.2	18	<b>15226</b>	1986 UP		12 26.1	159°78'	9°2'/24.5	18 R
11 17	6 50.34	+17 31.8	1.627	2.408	17.6	20.5	11 17	7 4.52	+46 56.8	2.203	2.921	15.4	18.3
11 27	6 45.77	+16 54.3	1.564	2.429	14.0	20.3	11 27	6 58.02	+48 38.6	2.128	2.929	13.3	18.1
12 7	6 38.36	+16 21.9	1.522	2.451	9.8	20.1	12 7	6 47.56	+50 10.3	2.076	2.936	11.2	18.0
12 17	6 28.87	+15 55.7	1.505	2.472	5.5	19.9	12 17	6 33.77	+51 22.1	2.048	2.942	9.6	17.9
12 27	6 18.50	+15 36.4	1.516	2.494	3.1	19.8	12 27	6 18.04	+52 5.7	2.048	2.948	9.2	17.9
1 6	6 8.58	+15 24.6	1.555	2.516	6.1	20.0	1 6	6 2.31	+52 17.5	2.075	2.953	10.2	18.0
1 16	6 0.29	+15 20.1	1.621	2.537	10.1	20.3	1 16	5 48.52	+51 59.8	2.127	2.957	12.1	18.1
1 26	5 54.49	+15 22.7	1.711	2.559	13.7	20.6	1 26	5 38.16	+51 19.7	2.203	2.960	14.1	18.3
<b>317059</b>	2001 SM <sub>102</sub>		12 26.1	102°97'	1°6'/26.0	18	<b>80617</b>	2000 AG <sub>174</sub>		12 26.1	126°51'	5°0'/26.7	18
11 17	6 55.52	+26 24.6	1.358	2.151	19.9	21.7	11 17	6 50.98	+10 59.0	1.700	2.464	17.6	18.9
11 27	6 50.96	+26 35.8	1.289	2.162	15.8	21.5	11 27	6 46.33	+10 35.4	1.625	2.475	14.4	18.7
12 7	6 42.56	+26 46.9	1.239	2.173	10.9	21.2	12 7	6 38.86	+10 23.1	1.570	2.485	10.6	18.5
12 17	6 31.15	+26 53.8	1.212	2.184	5.5	21.0	12 17	6 29.23	+10 23.7	1.540	2.495	6.9	18.3
12 27	6 18.28	+26 52.9	1.212	2.194	1.7	20.7	12 27	6 18.52	+10 37.8	1.536	2.505	5.0	18.2
1 6	6 5.83	+26 43.1	1.239	2.204	6.5	21.1	1 6	6 8.02	+11 4.1	1.561	2.514	7.0	18.4
1 16	5 55.53	+26 26.2	1.292	2.214	11.6	21.4	1 16	5 58.97	+11 40.6	1.614	2.523	10.7	18.6
1 26	5 48.61	+26 6.1	1.368	2.224	16.0	21.7	1 26	5 52.33	+12 24.3	1.690	2.531	14.2	18.9
<b>484397</b>	2007 WY <sub>61</sub>		12 26.1	37°41'	0°4'/26.1	17	<b>294313</b>	2007 VH <sub>48</sub>		12 26.1	230°74'	1°3'/26.1	18
11 17	6 54.03	+27 38.4	1.232	2.036	20.9	20.3	11 17						

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>101874</b>	1999 <i>NM</i> <sub>8</sub>		12 26.1 171°26'	2°8/26.4	18		<b>518806</b>	2010 <i>BY</i> <sub>126</sub>		12 26.1 359°78'	2°9/26.6	17	
11 17	6 52.54	+15 35.3	1.856	2.619	16.4	20.5	11 17	6 44.52	+13 50.4	1.895	2.671	15.7	20.7
11 27	6 47.49	+15 28.8	1.769	2.623	13.2	20.3	11 27	6 41.19	+13 59.3	1.809	2.669	12.6	20.5
12 7	6 39.67	+15 29.7	1.704	2.627	9.4	20.1	12 7	6 35.37	+14 18.1	1.744	2.669	9.0	20.2
12 17	6 29.65	+15 38.2	1.664	2.629	5.3	19.8	12 17	6 27.59	+14 47.0	1.704	2.668	5.2	20.0
12 27	6 18.48	+15 53.5	1.653	2.631	2.8	19.7	12 27	6 18.74	+15 24.8	1.691	2.668	2.9	19.9
1 6	6 7.41	+16 14.2	1.672	2.632	5.7	19.9	1 6	6 9.93	+16 9.2	1.707	2.669	5.5	20.0
1 16	5 57.68	+16 39.1	1.719	2.633	9.8	20.1	1 16	6 2.26	+16 57.7	1.751	2.670	9.3	20.3
1 26	5 50.29	+17 7.1	1.791	2.632	13.5	20.3	1 26	5 56.65	+17 47.9	1.820	2.672	12.8	20.5
<b>517790</b>	2015 <i>PL</i> <sub>47</sub>		12 26.1 206°16'	0°9/26.2	18		<b>294653</b>	2008 <i>AU</i> <sub>78</sub>		12 26.1 102°16'	1°5/26.3	18	
11 17	6 50.71	+19 43.9	2.020	2.788	15.1	22.5	11 17	6 48.81	+18 8.5	2.016	2.785	15.0	21.0
11 27	6 46.02	+19 55.9	1.925	2.784	12.0	22.3	11 27	6 44.29	+18 16.1	1.937	2.797	11.9	20.8
12 7	6 38.67	+20 13.0	1.851	2.779	8.4	22.0	12 7	6 37.31	+18 29.6	1.881	2.809	8.3	20.6
12 17	6 29.19	+20 33.8	1.803	2.773	4.2	21.8	12 17	6 28.45	+18 47.8	1.851	2.820	4.3	20.4
12 27	6 18.52	+20 56.3	1.785	2.768	0.9	21.5	12 27	6 18.66	+19 9.3	1.850	2.831	1.5	20.2
1 6	6 7.85	+21 18.7	1.796	2.761	4.9	21.8	1 6	6 9.05	+19 32.4	1.878	2.842	4.8	20.4
1 16	5 58.35	+21 40.0	1.837	2.754	9.1	22.0	1 16	6 0.67	+19 56.2	1.935	2.853	8.6	20.7
1 26	5 51.01	+22 0.0	1.903	2.746	12.8	22.2	1 26	5 54.37	+20 19.9	2.018	2.864	12.1	20.9
<b>332033</b>	2005 <i>PL</i> <sub>23</sub>		12 26.1 80°01'	1°4/26.4	18		<b>391265</b>	2006 <i>SC</i> <sub>17</sub>		12 26.1 149°43'	4°9/26.5	18	
11 17	6 56.70	+17 7.1	1.612	2.380	18.3	20.6	11 17	6 48.23	+7 54.5	2.579	3.309	13.1	22.1
11 27	6 50.73	+17 36.0	1.558	2.417	14.4	20.4	11 27	6 43.13	+7 15.7	2.496	3.321	10.8	22.0
12 7	6 41.73	+18 13.5	1.526	2.453	9.9	20.2	12 7	6 36.15	+6 45.3	2.436	3.331	8.3	21.8
12 17	6 30.54	+18 56.8	1.519	2.488	5.0	20.0	12 17	6 27.78	+6 25.2	2.402	3.341	5.9	21.7
12 27	6 18.43	+19 42.4	1.540	2.522	1.5	19.8	12 27	6 18.73	+6 16.8	2.398	3.350	4.9	21.6
1 6	6 6.86	+20 26.9	1.592	2.556	5.4	20.2	1 6	6 9.83	+6 20.2	2.424	3.359	6.1	21.7
1 16	5 57.12	+21 8.4	1.671	2.589	9.8	20.5	1 16	6 1.85	+6 34.6	2.479	3.367	8.4	21.9
1 26	5 50.11	+21 46.3	1.776	2.621	13.5	20.8	1 26	5 55.44	+6 58.4	2.561	3.374	10.8	22.1
<b>261751</b>	2006 <i>BD</i> <sub>22</sub>		12 26.1 236°31'	0°9/26.2	18		<b>515128</b>	2011 <i>FR</i> <sub>13</sub>		12 26.1 259°03'	3°1/26.3	18	
11 17	6 46.37	+19 57.5	2.600	3.361	12.3	21.0	11 17	6 50.09	+16 9.2	1.753	2.527	16.8	22.1
11 27	6 42.00	+20 0.1	2.495	3.351	9.7	20.8	11 27	6 46.05	+15 49.9	1.649	2.509	13.6	21.9
12 7	6 35.59	+20 5.7	2.413	3.340	6.8	20.6	12 7	6 39.03	+15 36.9	1.566	2.492	9.8	21.6
12 17	6 27.60	+20 13.8	2.359	3.329	3.4	20.4	12 17	6 29.53	+15 30.9	1.507	2.473	5.6	21.3
12 27	6 18.72	+20 23.3	2.335	3.317	0.9	20.2	12 27	6 18.54	+15 32.3	1.477	2.454	3.1	21.1
1 6	6 9.82	+20 33.3	2.341	3.305	4.0	20.4	1 6	6 7.40	+15 40.6	1.474	2.435	6.3	21.3
1 16	6 1.76	+20 43.6	2.378	3.293	7.4	20.6	1 16	5 57.48	+15 55.2	1.499	2.415	10.8	21.5
1 26	5 55.31	+20 54.1	2.442	3.281	10.4	20.8	1 26	5 49.96	+16 15.4	1.548	2.395	15.0	21.7
<b>342098</b>	2008 <i>SD</i> <sub>61</sub>		12 26.1 91°39'	1°8/26.0	18		<b>267811</b>	2003 <i>TC</i> <sub>17</sub>		12 26.1 91°45'	3°8/25.6	17	
11 17	6 54.89	+27 12.5	1.714	2.490	17.0	21.6	11 17	6 49.80	+33 2.1	2.323	3.087	13.5	20.3
11 27	6 49.52	+27 28.7	1.649	2.513	13.5	21.4	11 27	6 45.14	+33 49.0	2.243	3.096	10.8	20.1
12 7	6 41.05	+27 43.9	1.605	2.535	9.3	21.2	12 7	6 37.94	+34 32.8	2.186	3.105	7.8	19.9
12 17	6 30.27	+27 54.3	1.586	2.556	4.7	20.9	12 17	6 28.79	+35 8.9	2.156	3.114	5.0	19.8
12 27	6 18.47	+27 57.1	1.596	2.577	1.8	20.8	12 27	6 18.63	+35 33.6	2.155	3.123	3.8	19.7
1 6	6 7.12	+27 51.3	1.635	2.598	5.5	21.1	1 6	6 8.61	+35 45.1	2.183	3.132	5.7	19.8
1 16	5 57.55	+27 38.5	1.702	2.618	9.7	21.4	1 16	5 59.81	+35 43.8	2.240	3.140	8.6	20.0
1 26	5 50.73	+27 21.5	1.793	2.638	13.3	21.6	1 26	5 53.13	+35 32.3	2.322	3.149	11.4	20.2
<b>404323</b>	2013 <i>FY</i> <sub>11</sub>		12 26.1 153°31'	2°6/25.8	18		<b>302634</b>	2002 <i>RN</i> <sub>127</sub>		12 26.1 125°62'	3°8/26.3	18	
11 17	6 51.38	+30 13.0	2.511	3.268	12.7	22.0	11 17	6 49.80	+13 26.5	2.195	2.948	14.5	21.4
11 27	6 46.07	+30 48.9	2.425	3.276	10.1	21.9	11 27	6 44.68	+12 47.9	2.117	2.963	11.7	21.2
12 7	6 38.42	+31 22.9	2.362	3.284	7.2	21.7	12 7	6 37.36	+12 15.4	2.062	2.977	8.5	21.0
12 17	6 28.97	+31 51.7	2.327	3.291	4.1	21.5	12 17	6 28.40	+11 50.5	2.034	2.991	5.3	20.9
12 27	6 18.59	+32 12.0	2.322	3.297	2.7	21.4	12 27	6 18.69	+11 34.3	2.035	3.004	3.8	20.8
1 6	6 8.33	+32 22.3	2.348	3.303	4.8	21.6	1 6	6 9.21	+11 27.1	2.066	3.017	5.7	20.9
1 16	5 59.17	+32 22.9	2.404	3.309	7.9	21.8	1 16	6 0.88	+11 28.6	2.125	3.029	8.8	21.1
1 26	5 51.96	+32 15.9	2.486	3.314	10.7	22.0	1 26	5 54.45	+11 38.0	2.211	3.041	11.7	21.4
<b>228196</b>	7574 <i>P-L</i>		12 26.1 41°91'	3°6/25.8	18		<b>439038</b>	2011 <i>FE</i> <sub>57</sub>		12 26.1 192°91'	1°3/26.2	18	
11 17	6 49.98	+30 50.1	1.760	2.543	16.4	19.4	11 17	6 51.64	+20 3.5	1.901	2.672	15.8	22.4
11 27	6 45.76	+31 33.4	1.700	2.566	13.0	19.3	11 27	6 46.85	+19 56.9	1.810	2.670	12.6	22.2
12 7	6 38.55	+32 13.8	1.662	2.590	9.2	19.1	12 7	6 39.28	+19 54.0	1.740	2.669	8.8	21.9
12 17	6 29.08	+32 46.3	1.649	2.614	5.4	18.9	12 17	6 29.52	+19 53.8	1.696	2.666	4.5	21.7
12 27	6 18.59	+33 6.6	1.664	2.638	3.7	18.9	12 27	6 18.57	+19 55.4	1.681	2.663	1.3	21.4
1 6	6 8.50	+33 13.3	1.707	2.663	6.1	19.1	1 6	6 7.70	+19 58.0	1.696	2.660	5.2	21.7
1 16	6 0.09	+33 7.6	1.777	2.688	9.7	19.3	1 16	5 58.14	+20 1.4	1.738	2.656	9.5	21.9
1 26	5 54.30	+32 52.9	1.871	2.714	13.0	19.6	1 26	5 50.90	+20 6.3	1.807	2.651	13.3	22.2
<b>151886</b>	2003 <i>YO</i> <sub>13</sub>		12 26.1 324°83'	6°9/27.3	18		<b>212193</b>	2005 <i>GF</i> <sub>103</sub>		12 26.1 312°45'	8°9/26.4	17	
11 17	7 0.63	+40 13.7	1.105	1.901	23.4	19.5	11 17	6 44.19	+4 38.5	1.623	2.387	18.4	19.8
11 27	6 56.81	+39 57.9	1.026	1.893	19.5	19.2	11 27	6 41.45	+3 34.3	1.528	2.368	15.7	19.5
12 7	6 47.59	+39 22.1	0.963	1.886	14.8	18.9	12 7	6 35.89	+2 43.3	1.452	2.349	12.7	19.3
12 17	6 33.94	+38 16.2	0.921	1.879	9.8	18.6	12 17	6 27.99	+2 11.3	1.399	2.331	10.0	19.1
12 27	6 18.11	+36 34.7	0.902	1.873	6.9	18.5	12 27	6 18.71	+2 2.7	1.370	2.313	8.9	19.0
1 6	6 3.03	+34 21.6	0.908	1.867	9.6	18.6	1 6	6 9.30	+2 19.5	1.366	2.296	10.3	19.0
1 16	5 51.24	+31 50.6	0.939	1.862	14.8	18.8	1 16	6 1.06	+2 59.9	1.386	2.279	13.3	19.2
1 26	5 44.24	+29 18.5	0.991	1.857	19.8	19.1	1 26	5 55.13	+3 59.7	1.429	2.263	16.7	19.3
<b>57097</b>	2001 <i>OP</i> <sub>58</sub>		12 26.1 70°69'	1°7/26.0	18		<b>493101</b>	2014 <i>ST</i> <sub>337</sub>		12 26.1 118°31'	0°5/26.0	17	

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>193187</b>	2000 QZ <sub>51</sub>		12 26.1 116°07'	0°3/26.1 18			<b>195870</b>	2002 QZ <sub>116</sub>		12 26.1 119°10'	2°2/26.3 17		
11 17	6 52.81	+22 6.0	1.897	2.668	15.8	21.6	11 17	6 45.75	+16 1.6	2.555	3.313	12.5	21.6
11 27	6 47.57	+22 9.1	1.823	2.684	12.5	21.4	11 27	6 41.32	+15 49.8	2.471	3.323	10.0	21.4
12 7	6 39.60	+22 14.8	1.771	2.701	8.6	21.2	12 7	6 35.00	+15 42.8	2.411	3.332	7.1	21.2
12 17	6 29.57	+22 21.1	1.745	2.716	4.2	21.0	12 17	6 27.26	+15 40.7	2.377	3.341	4.0	21.1
12 27	6 18.58	+22 26.5	1.748	2.732	0.5	20.7	12 27	6 18.83	+15 43.6	2.373	3.350	2.2	21.0
1 6	6 7.88	+22 29.9	1.781	2.746	4.9	21.1	1 6	6 10.54	+15 50.8	2.400	3.359	4.4	21.1
1 16	5 58.65	+22 31.6	1.843	2.760	9.0	21.3	1 16	6 3.17	+16 1.9	2.456	3.368	7.4	21.3
1 26	5 51.79	+22 32.5	1.930	2.774	12.6	21.6	1 26	5 57.37	+16 16.3	2.539	3.376	10.2	21.5
<b>212208</b>	2005 GN <sub>158</sub>		12 26.1 196°12'	1°8/25.9 18			<b>238644</b>	2005 EY <sub>19</sub>		12 26.1 143°34'	3°4/25.9 18		
11 17	6 51.15	+28 3.0	2.301	3.065	13.6	21.6	11 17	6 49.22	+33 55.7	2.573	3.331	12.5	20.5
11 27	6 46.14	+28 20.9	2.206	3.062	10.8	21.4	11 27	6 44.40	+34 19.1	2.485	3.334	10.0	20.3
12 7	6 38.62	+28 37.7	2.133	3.060	7.5	21.2	12 7	6 37.29	+34 38.0	2.420	3.338	7.3	20.2
12 17	6 29.14	+28 50.5	2.088	3.056	4.0	21.0	12 17	6 28.44	+34 48.9	2.383	3.341	4.6	20.0
12 27	6 18.62	+28 56.7	2.072	3.052	1.8	20.8	12 27	6 18.72	+34 49.3	2.375	3.344	3.4	19.9
1 6	6 8.17	+28 55.1	2.087	3.048	4.7	21.0	1 6	6 9.14	+34 38.4	2.397	3.347	5.1	20.0
1 16	5 58.87	+28 46.3	2.131	3.043	8.3	21.2	1 16	6 0.69	+34 17.3	2.448	3.350	7.8	20.2
1 26	5 51.63	+28 32.2	2.202	3.038	11.5	21.4	1 26	5 54.15	+33 48.7	2.525	3.353	10.5	20.4
<b>283229</b>	2010 RS <sub>74</sub>		12 26.1 176°44'	7°0/26.9 18			<b>60451</b>	2000 CH <sub>93</sub>		12 26.1 266°88'	8°6/27.5 18		
11 17	6 46.98	+ 2 15.2	2.372	3.091	14.4	21.4	11 17	6 45.89	- 0 14.9	1.995	2.720	16.6	19.0
11 27	6 42.42	+ 1 30.4	2.285	3.093	12.2	21.3	11 27	6 42.11	- 0 53.2	1.903	2.712	14.3	18.8
12 7	6 35.83	+ 0 57.9	2.220	3.095	9.9	21.1	12 7	6 35.95	- 1 14.9	1.831	2.703	11.8	18.6
12 17	6 27.70	+ 0 40.9	2.179	3.096	7.9	21.0	12 17	6 27.89	- 1 15.6	1.781	2.694	9.7	18.4
12 27	6 18.77	+ 0 41.6	2.166	3.097	7.0	21.0	12 27	6 18.77	- 0 52.5	1.758	2.685	8.6	18.4
1 6	6 9.92	+ 1 0.0	2.181	3.097	7.9	21.0	1 6	6 9.61	- 0 5.9	1.761	2.676	9.5	18.4
1 16	6 1.98	+ 1 34.7	2.224	3.096	9.9	21.1	1 16	6 1.47	+ 1 1.3	1.790	2.667	11.7	18.5
1 26	5 55.69	+ 2 22.5	2.292	3.095	12.3	21.3	1 26	5 55.25	+ 2 24.1	1.843	2.658	14.4	18.7
<b>122100</b>	2000 HN <sub>71</sub>		12 26.1 147°18'	1°1/25.9 18			<b>99076</b>	2001 FT <sub>15</sub>		12 26.1 339°48'	11°2/24.8 17		
11 17	6 52.10	+23 53.9	1.726	2.506	16.8	20.1	11 17	6 48.36	+42 27.8	1.291	2.088	20.6	19.5
11 27	6 47.62	+24 27.0	1.644	2.510	13.3	19.9	11 27	6 47.15	+44 3.7	1.212	2.071	17.6	19.2
12 7	6 40.04	+25 3.9	1.583	2.514	9.2	19.6	12 7	6 41.26	+45 30.9	1.150	2.056	14.5	19.0
12 17	6 29.97	+25 40.8	1.547	2.518	4.6	19.4	12 17	6 31.15	+46 37.1	1.109	2.042	12.0	18.8
12 27	6 18.55	+26 13.8	1.539	2.521	1.2	19.1	12 27	6 18.43	+47 10.2	1.090	2.029	11.3	18.7
1 6	6 7.24	+26 40.0	1.560	2.525	5.5	19.4	1 6	6 5.61	+47 4.1	1.094	2.018	13.0	18.8
1 16	5 57.44	+26 58.6	1.609	2.528	10.0	19.7	1 16	5 55.26	+46 21.4	1.119	2.008	16.2	18.9
1 26	5 50.28	+27 10.9	1.683	2.530	13.9	19.9	1 26	5 49.27	+45 11.6	1.163	2.000	19.6	19.1
<b>224135</b>	2005 QA <sub>36</sub>		12 26.1 134°21'	0°8/26.2 18			<b>418656</b>	2008 TN <sub>91</sub>		12 26.1 129°42'	2°0/25.9 14 C		
11 17	6 52.97	+21 11.3	1.793	2.566	16.5	20.9	11 17	6 48.95	+29 27.7	2.874	3.629	11.4	22.3
11 27	6 47.92	+21 10.0	1.715	2.577	13.1	20.7	11 27	6 43.78	+29 52.8	2.792	3.643	9.0	22.1
12 7	6 39.99	+21 11.9	1.658	2.587	9.0	20.5	12 7	6 36.65	+30 16.1	2.735	3.657	6.3	22.0
12 17	6 29.83	+21 15.7	1.626	2.597	4.5	20.2	12 17	6 28.07	+30 34.9	2.705	3.671	3.5	21.8
12 27	6 18.57	+21 19.7	1.624	2.607	0.9	20.0	12 27	6 18.78	+30 47.3	2.707	3.684	2.0	21.7
1 6	6 7.56	+21 23.1	1.651	2.616	5.2	20.3	1 6	6 9.64	+30 52.2	2.739	3.696	4.0	21.9
1 16	5 58.06	+21 25.8	1.705	2.624	9.6	20.6	1 16	6 1.46	+30 50.1	2.802	3.708	6.8	22.1
1 26	5 51.05	+21 28.6	1.786	2.631	13.3	20.8	1 26	5 54.91	+30 42.3	2.892	3.720	9.3	22.3
<b>37802</b>	1997 XD <sub>11</sub>		12 26.1 114°39'	2°1/26.1 18			<b>342303</b>	2008 TQ <sub>54</sub>		12 26.1 104°60'	4°7/26.3 18		
11 17	7 0.06	+28 47.8	1.837	2.598	16.6	19.5	11 17	6 49.28	+13 18.5	1.692	2.465	17.4	21.2
11 27	6 53.33	+28 59.8	1.770	2.625	13.1	19.3	11 27	6 45.08	+12 37.4	1.614	2.471	14.1	21.0
12 7	6 43.52	+29 9.0	1.726	2.650	9.1	19.1	12 7	6 38.09	+12 4.3	1.557	2.477	10.3	20.8
12 17	6 31.45	+29 11.4	1.707	2.675	4.8	18.9	12 17	6 28.94	+11 41.3	1.523	2.482	6.5	20.6
12 27	6 18.43	+29 4.1	1.719	2.699	2.1	18.8	12 27	6 18.69	+11 29.9	1.517	2.488	4.7	20.5
1 6	6 5.94	+28 46.9	1.760	2.721	5.4	19.0	1 6	6 8.66	+11 30.3	1.539	2.493	7.0	20.6
1 16	5 55.30	+28 22.2	1.831	2.743	9.4	19.3	1 16	6 0.04	+11 41.9	1.588	2.499	10.7	20.9
1 26	5 47.45	+27 53.5	1.927	2.763	12.9	19.6	1 26	5 53.81	+12 2.8	1.660	2.504	14.3	21.1
<b>931</b>	Whittemora		12 26.1 15°52'	2°1/26.6 18			<b>265057</b>	2003 SS <sub>28</sub>		12 26.1 128°41'	3°3/25.9 17		
11 17	6 43.99	+15 12.0	1.663	2.452	17.0	13.2	11 17	6 50.01	+33 16.6	2.420	3.181	13.1	21.0
11 27	6 41.08	+15 39.1	1.590	2.459	13.6	13.0	11 27	6 45.14	+33 39.3	2.335	3.186	10.5	20.8
12 7	6 35.44	+16 17.5	1.537	2.468	9.5	12.8	12 7	6 37.87	+33 57.6	2.273	3.192	7.6	20.6
12 17	6 27.67	+17 5.8	1.508	2.477	5.1	12.5	12 17	6 28.75	+34 8.0	2.237	3.197	4.7	20.5
12 27	6 18.78	+18 1.3	1.507	2.487	2.1	12.4	12 27	6 18.73	+34 7.7	2.231	3.202	3.3	20.4
1 6	6 10.04	+19 0.4	1.533	2.499	5.4	12.6	1 6	6 8.88	+33 56.1	2.254	3.207	5.2	20.5
1 16	6 2.64	+19 59.6	1.587	2.511	9.7	12.9	1 16	6 0.24	+33 34.2	2.307	3.212	8.1	20.7
1 26	5 57.55	+20 56.4	1.665	2.524	13.4	13.2	1 26	5 53.64	+33 5.1	2.386	3.216	11.0	20.9
<b>236525</b>	2006 HS <sub>9</sub>		12 26.1 259°78'	5°4/26.7 18			<b>357273</b>	2002 RM <sub>215</sub>		12 26.1 79°91'	3°3/25.8 18		
11 17	6 44.05	+ 7 4.2	2.422	3.164	13.6	20.4	11 17	6 53.67	+30 4.5	1.833	2.607	16.2	21.0
11 27	6 40.18	+ 6 32.2	2.326	3.157	11.3	20.2	11 27	6 48.57	+30 47.7	1.768	2.629	12.8	20.8
12 7	6 34.36	+ 6 9.7	2.253	3.151	8.7	20.1	12 7	6 40.47	+31 28.8	1.726	2.651	9.0	20.6
12 17	6 27.01	+ 5 59.1	2.205	3.144	6.4	19.9	12 17	6 30.07	+32 2.7	1.708	2.673	5.2	20.4
12 27	6 18.85	+ 6 1.8	2.185	3.137	5.4	19.8	12 27	6 18.62	+32 25.1	1.719	2.695	3.3	20.4
1 6	6 10.71	+ 6 17.8	2.194	3.131	6.5	19.9	1 6	6 7.52	+32 34.3	1.760	2.716	6.0	20.6
1 16	6 3.40	+ 6 45.9	2.231	3.124	9.0	20.0	1 16	5 58.10	+32 31.2	1.828	2.737	9.6	20.8
1 26	5 57.67	+ 7 24.0	2.293	3.117	11.6	20.2	1 26	5 51.32	+32 19.2	1.920	2.758	12.9	21.1
<b>197416</b>	2003 YY <sub>51</sub>		12 26.1 22°28'	0°8/26.1 18			<b>154119</b>	2002 EN <sub>61</sub>		12 26.1 122°05'	5°1/26.8 18		
11 17	6 46.44	+25 48.7	2.031	2.812	14.6								



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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>455525</b>	2003 YN <sub>112</sub>		12 26.1 300°36	3°2/26.6	18		<b>23679</b>	Andrewmoore		12 26.1 135°10	6°7/26.6	18	
11 17	6 54.74	+35 42.6	2.284	3.037	14.0	20.1	11 17	6 48.04	+5 50.1	2.060	2.800	15.7	19.0
11 27	6 49.21	+35 17.1	2.166	3.012	11.4	19.9	11 27	6 43.53	+4 56.9	1.981	2.808	13.1	18.8
12 7	6 40.86	+34 41.5	2.071	2.988	8.3	19.6	12 7	6 36.75	+4 15.0	1.924	2.816	10.3	18.6
12 17	6 30.31	+33 52.3	2.002	2.963	5.0	19.4	12 17	6 28.23	+3 47.8	1.891	2.823	7.8	18.5
12 27	6 18.59	+32 47.7	1.963	2.938	3.2	19.2	12 27	6 18.86	+3 37.7	1.885	2.831	6.7	18.4
1 6	6 7.00	+31 29.1	1.956	2.913	5.4	19.3	1 6	6 9.65	+3 44.9	1.908	2.837	7.9	18.5
1 16	5 56.77	+30 0.5	1.978	2.888	9.0	19.5	1 16	6 1.56	+4 8.3	1.958	2.844	10.4	18.7
1 26	5 48.90	+28 27.8	2.028	2.864	12.4	19.7	1 26	5 55.38	+4 44.7	2.032	2.850	13.1	18.9
<b>292029</b>	2006 QM <sub>165</sub>		12 26.1 177°16	0°2/26.1	18		<b>385739</b>	2005 VB <sub>130</sub>		12 26.1 37°98	4°8/26.6	18	
11 17	6 50.17	+22 53.8	2.219	2.985	14.0	21.5	11 17	6 48.10	+12 53.2	1.390	2.180	19.7	20.8
11 27	6 45.28	+22 50.0	2.128	2.987	11.1	21.3	11 27	6 44.79	+12 28.7	1.320	2.187	15.9	20.6
12 7	6 37.99	+22 47.3	2.060	2.988	7.6	21.1	12 7	6 38.24	+12 15.9	1.268	2.194	11.6	20.3
12 17	6 28.84	+22 44.4	2.018	2.989	3.7	20.9	12 17	6 29.16	+12 16.6	1.239	2.201	7.2	20.1
12 27	6 18.75	+22 40.3	2.006	2.989	0.4	20.6	12 27	6 18.77	+12 31.3	1.235	2.209	4.8	20.0
1 6	6 8.77	+22 34.4	2.024	2.989	4.4	20.9	1 6	6 8.63	+12 58.5	1.258	2.217	7.4	20.2
1 16	5 59.95	+22 27.1	2.072	2.988	8.2	21.1	1 16	6 0.15	+13 35.7	1.305	2.225	11.8	20.4
1 26	5 53.12	+22 19.7	2.146	2.987	11.6	21.3	1 26	5 54.46	+14 19.7	1.376	2.234	15.8	20.7
<b>347239</b>	2011 JG <sub>17</sub>		12 26.1 160°38	0°6/26.1	18		<b>213115</b>	2000 AL <sub>87</sub>		12 26.1 302°64	1°0/26.1	17	
11 17	6 52.88	+23 48.8	2.128	2.891	14.5	22.2	11 17	6 48.55	+25 59.0	1.700	2.489	16.7	20.0
11 27	6 47.54	+24 7.3	2.041	2.898	11.5	22.0	11 27	6 45.18	+25 58.1	1.597	2.468	13.4	19.8
12 7	6 39.61	+24 27.7	1.977	2.905	7.9	21.8	12 7	6 38.64	+25 56.7	1.514	2.448	9.3	19.5
12 17	6 29.67	+24 47.4	1.940	2.911	3.9	21.5	12 17	6 29.47	+25 52.2	1.456	2.428	4.7	19.1
12 27	6 18.68	+25 4.0	1.933	2.916	0.7	21.3	12 27	6 18.73	+25 42.5	1.426	2.408	1.1	18.8
1 6	6 7.81	+25 15.9	1.956	2.920	4.7	21.6	1 6	6 7.88	+25 26.6	1.423	2.389	5.7	19.1
1 16	5 58.21	+25 23.0	2.009	2.924	8.6	21.8	1 16	5 58.41	+25 5.9	1.447	2.369	10.6	19.3
1 26	5 50.78	+25 26.5	2.088	2.927	12.0	22.1	1 26	5 51.57	+24 42.9	1.494	2.351	14.9	19.6
<b>42888</b>	1999 RH <sub>163</sub>		12 26.1 70°15	4°5/26.1	18		<b>408457</b>	2013 HT <sub>41</sub>		12 26.1 139°24	0°2/26.1	18	
11 17	6 53.67	+34 18.1	1.720	2.496	17.0	18.3	11 17	6 49.12	+24 0.0	2.117	2.889	14.4	21.8
11 27	6 49.11	+34 40.7	1.640	2.500	13.7	18.1	11 27	6 44.59	+23 58.4	2.030	2.893	11.4	21.6
12 7	6 41.16	+34 57.0	1.581	2.503	10.0	17.8	12 7	6 37.59	+23 57.4	1.966	2.896	7.8	21.4
12 17	6 30.54	+35 1.4	1.547	2.507	6.3	17.6	12 17	6 28.69	+23 55.4	1.928	2.900	3.8	21.2
12 27	6 18.60	+34 49.9	1.539	2.510	4.5	17.5	12 27	6 18.83	+23 51.2	1.920	2.903	0.4	20.9
1 6	6 6.95	+34 21.6	1.560	2.514	6.9	17.7	1 6	6 9.12	+23 44.2	1.941	2.906	4.5	21.3
1 16	5 57.13	+33 39.6	1.607	2.518	10.6	17.9	1 16	6 0.64	+23 35.0	1.991	2.909	8.4	21.5
1 26	5 50.25	+32 49.3	1.679	2.521	14.2	18.1	1 26	5 54.23	+23 24.9	2.067	2.912	11.8	21.7
<b>91722</b>	1999 TW <sub>157</sub>		12 26.1 7°38	2°5/25.7	17		<b>140738</b>	2001 UH <sub>104</sub>		12 26.1 284°88	0°7/26.2	17	
11 17	6 48.14	+26 59.0	2.001	2.780	14.8	18.7	11 17	6 47.67	+21 19.1	1.970	2.747	15.1	20.4
11 27	6 44.25	+27 51.7	1.915	2.780	11.8	18.4	11 27	6 43.72	+21 18.2	1.877	2.742	12.0	20.2
12 7	6 37.62	+28 46.5	1.851	2.780	8.2	18.2	12 7	6 37.18	+21 20.3	1.806	2.737	8.3	19.9
12 17	6 28.80	+29 39.2	1.813	2.781	4.5	18.0	12 17	6 28.56	+21 24.4	1.761	2.732	4.1	19.7
12 27	6 18.76	+30 25.2	1.804	2.782	2.5	17.9	12 27	6 18.84	+21 29.0	1.744	2.727	0.8	19.4
1 6	6 8.74	+31 1.2	1.824	2.784	5.5	18.1	1 6	6 9.16	+21 33.4	1.756	2.722	4.9	19.7
1 16	5 59.94	+31 26.4	1.872	2.785	9.2	18.3	1 16	6 0.67	+21 37.4	1.797	2.717	9.0	20.0
1 26	5 53.40	+31 41.8	1.946	2.787	12.6	18.5	1 26	5 54.33	+21 41.5	1.862	2.712	12.7	20.2
<b>261638</b>	2005 YL <sub>53</sub>		12 26.1 77°03	0°2/26.2	18		<b>303540</b>	2005 EU <sub>289</sub>		12 26.1 159°86	1°8/26.0	18	
11 17	6 47.92	+21 57.5	2.107	2.880	14.4	21.0	11 17	6 51.77	+28 0.8	2.053	2.823	14.8	21.0
11 27	6 43.56	+22 8.6	2.029	2.892	11.3	20.8	11 27	6 46.87	+28 14.7	1.967	2.827	11.8	20.8
12 7	6 36.82	+22 22.5	1.974	2.905	7.8	20.6	12 7	6 39.27	+28 27.2	1.903	2.831	8.2	20.6
12 17	6 28.27	+22 37.6	1.946	2.917	3.8	20.4	12 17	6 29.55	+28 35.1	1.865	2.834	4.3	20.4
12 27	6 18.83	+22 52.1	1.946	2.929	0.4	20.2	12 27	6 18.75	+28 35.9	1.856	2.836	1.9	20.2
1 6	6 9.59	+23 4.7	1.976	2.941	4.4	20.5	1 6	6 8.12	+28 28.7	1.877	2.839	5.0	20.5
1 16	6 1.54	+23 15.2	2.035	2.954	8.2	20.8	1 16	5 58.84	+28 14.4	1.926	2.841	8.9	20.7
1 26	5 55.52	+23 23.9	2.120	2.966	11.5	21.0	1 26	5 51.85	+27 55.5	2.002	2.843	12.3	20.9
<b>332218</b>	2006 GC <sub>41</sub>		12 26.1 221°09	5°4/26.9	18		<b>307722</b>	2003 UM <sub>167</sub>		12 26.1 132°99	2°1/26.2	18	
11 17	6 44.16	+3 19.0	2.978	3.693	11.8	21.4	11 17	6 47.24	+17 41.4	2.664	3.419	12.2	20.5
11 27	6 39.89	+2 53.7	2.876	3.684	10.0	21.3	11 27	6 42.39	+17 9.7	2.578	3.428	9.7	20.4
12 7	6 33.98	+2 38.5	2.796	3.674	8.0	21.1	12 7	6 35.69	+16 40.6	2.516	3.438	6.8	20.2
12 17	6 26.82	+2 35.3	2.742	3.664	6.2	21.0	12 17	6 27.64	+16 14.6	2.482	3.447	3.8	20.0
12 27	6 18.97	+2 45.4	2.717	3.654	5.4	20.9	12 27	6 18.94	+15 52.3	2.479	3.456	2.1	19.9
1 6	6 11.11	+3 8.5	2.721	3.643	6.2	21.0	1 6	6 10.42	+15 34.3	2.506	3.464	4.3	20.1
1 16	6 3.90	+3 43.6	2.754	3.632	8.1	21.1	1 16	6 2.82	+15 20.9	2.563	3.473	7.2	20.3
1 26	5 57.95	+4 28.4	2.814	3.620	10.2	21.2	1 26	5 56.78	+15 12.3	2.648	3.480	9.9	20.5
<b>396192</b>	2013 JN <sub>25</sub>		12 26.1 85°50	2°4/26.5	18		<b>360854</b>	2005 QY <sub>65</sub>		12 26.1 164°78	2°8/26.3	18	
11 17	6 47.34	+15 55.9	1.983	2.753	15.2	20.8	11 17	6 47.92	+15 3.9	2.367	3.123	13.5	21.6
11 27	6 43.26	+15 56.6	1.899	2.758	12.2	20.6	11 27	6 43.25	+14 43.0	2.278	3.127	10.8	21.4
12 7	6 36.72	+16 4.7	1.838	2.763	8.6	20.4	12 7	6 36.46	+14 27.4	2.211	3.130	7.7	21.3
12 17	6 28.27	+16 19.8	1.802	2.768	4.8	20.2	12 17	6 28.09	+14 17.8	2.172	3.133	4.6	21.1
12 27	6 18.83	+16 41.1	1.794	2.773	2.4	20.0	12 27	6 18.90	+14 14.3	2.161	3.136	2.9	21.0
1 6	6 9.51	+17 7.0	1.816	2.778	5.2	20.2	1 6	6 9.82	+14 16.9	2.182	3.139	5.0	21.1
1 16	6 1.37	+17 36.0	1.866	2.783	8.9	20.5	1 16	6 1.73	+14 25.2	2.231	3.141	8.1	21.3
1 26	5 55.27	+18 7.0	1.941	2.788	12.4	20.7	1 26	5 55.38	+14 38.4	2.307	3.142	11.1	21.5
<b>388057</b>	2005 TS <sub>49</sub>		12 26.1 38°53	1°8/26.1	17		<b>385723</b>	2005 UY <sub>269</sub>		12 26.1 101°58	0°3/26.1	18	
11 17	6 51.51	+22 45.2	1.150	1.962	21.6								

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12 26.1

12 26.2

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>27323</b>	Julianewman 12 26.1 182°74 4.8/26.7 18						<b>407406</b>	2010 TV <sub>44</sub> 12 26.1 122°83 1.8/26.0 18					
11 17	6 47.34	+10 6.8	2.015	2.771	15.5	19.5	11 17	6 50.35	+27 43.4	2.141	2.911	14.3	22.1
11 27	6 43.20	+9 42.6	1.927	2.772	12.7	19.3	11 27	6 45.62	+28 1.9	2.059	2.919	11.3	21.9
12 7	6 36.67	+9 28.3	1.861	2.772	9.5	19.1	12 7	6 38.33	+28 19.4	1.998	2.926	7.9	21.7
12 17	6 28.28	+9 25.8	1.820	2.771	6.4	18.9	12 17	6 29.09	+28 33.0	1.964	2.933	4.1	21.5
12 27	6 18.90	+9 35.9	1.806	2.771	4.8	18.8	12 27	6 18.86	+28 40.0	1.960	2.940	1.8	21.3
1 6	6 9.59	+9 58.1	1.821	2.771	6.5	18.9	1 6	6 8.80	+28 39.5	1.985	2.947	4.8	21.5
1 16	6 1.38	+10 30.7	1.864	2.770	9.7	19.1	1 16	6 0.02	+28 31.9	2.039	2.954	8.5	21.8
1 26	5 55.14	+11 11.3	1.933	2.769	12.9	19.3	1 26	5 53.40	+28 19.5	2.119	2.960	11.7	22.0
<b>444812</b>	2007 UO <sub>10</sub> 12 26.1 17°78 8°9/25.3 15						<b>398640</b>	2012 QZ <sub>39</sub> 12 26.1 23°18 13°5/ 1.6 17					
11 17	6 47.27	+9 29.7	1.416	2.198	19.7	20.4	11 17	6 53.37	-10 28.2	0.896	1.648	30.6	19.5
11 27	6 43.90	+7 27.8	1.348	2.203	16.4	20.1	11 27	6 50.63	-9 43.4	0.833	1.652	27.1	19.2
12 7	6 37.47	+5 33.9	1.301	2.209	12.9	19.9	12 7	6 43.32	-8 1.7	0.781	1.658	22.7	18.9
12 17	6 28.72	+3 55.8	1.276	2.216	9.9	19.8	12 17	6 32.08	-5 12.1	0.744	1.665	17.9	18.7
12 27	6 18.86	+2 40.5	1.277	2.224	9.0	19.8	12 27	6 18.55	-1 14.8	0.728	1.673	14.2	18.5
1 6	6 9.32	+1 52.3	1.303	2.233	10.7	19.9	1 6	6 5.10	+3 32.1	0.737	1.683	13.9	18.6
1 16	6 1.41	+1 31.7	1.353	2.242	13.8	20.1	1 16	5 54.05	+8 38.3	0.771	1.693	17.3	18.8
1 26	5 56.11	+1 35.6	1.424	2.253	17.1	20.3	1 26	5 47.17	+13 33.5	0.829	1.704	21.9	19.1
<b>464825</b>	2004 TQ <sub>317</sub> 12 26.1 6°86 22°0/23.2 17						<b>383510</b>	2007 CE <sub>21</sub> 12 26.2 257°50 2°6/26.1 18					
11 17	6 45.76	-4 31.5	0.891	1.678	28.3	20.5	11 17	6 53.72	+29 41.4	1.758	2.535	16.7	21.6
11 27	6 44.22	-8 31.0	0.846	1.678	25.8	20.3	11 27	6 49.28	+29 54.0	1.656	2.520	13.4	21.4
12 7	6 38.56	-12 4.9	0.817	1.678	23.6	20.2	12 7	6 41.50	+30 4.0	1.575	2.503	9.5	21.1
12 17	6 29.55	-14 52.7	0.803	1.680	22.2	20.1	12 17	6 30.91	+30 7.1	1.519	2.487	5.3	20.8
12 27	6 18.78	-16 37.1	0.806	1.683	22.0	20.1	12 27	6 18.69	+29 59.6	1.491	2.470	2.7	20.6
1 6	6 8.31	-17 11.8	0.824	1.687	23.1	20.2	1 6	6 6.40	+29 40.1	1.491	2.452	6.1	20.8
1 16	6 0.06	-16 40.9	0.857	1.692	24.9	20.4	1 16	5 55.62	+29 10.1	1.518	2.435	10.7	21.0
1 26	5 55.42	-15 17.6	0.902	1.698	27.1	20.5	1 26	5 47.65	+28 33.9	1.570	2.417	14.8	21.2
<b>420259</b>	2011 JP <sub>17</sub> 12 26.1 319°69 8°9/25.7 18						<b>342441</b>	2008 UR <sub>95</sub> 12 26.2 345°01 4°8/25.6 18					
11 17	6 42.69	+2 57.5	1.952	2.698	16.2	20.7	11 17	6 47.62	+30 25.4	1.321	2.130	19.5	20.3
11 27	6 39.81	+1 38.1	1.850	2.675	14.0	20.5	11 27	6 45.50	+31 22.4	1.241	2.122	15.8	20.1
12 7	6 34.54	+0 29.4	1.768	2.651	11.6	20.3	12 7	6 39.46	+32 19.9	1.180	2.114	11.4	19.8
12 17	6 27.34	-0 23.1	1.710	2.628	9.6	20.1	12 17	6 30.09	+33 10.8	1.142	2.108	6.9	19.5
12 27	6 18.99	-0 54.6	1.677	2.605	8.9	20.0	12 27	6 18.76	+33 47.5	1.128	2.102	4.9	19.4
1 6	6 10.52	-1 2.4	1.670	2.583	10.1	20.0	1 6	6 7.44	+34 5.4	1.139	2.098	8.1	19.6
1 16	6 2.98	-0 46.7	1.688	2.561	12.5	20.1	1 16	5 58.05	+34 4.7	1.175	2.094	12.8	19.8
1 26	5 57.32	-0 10.2	1.728	2.540	15.2	20.3	1 26	5 52.12	+33 49.8	1.232	2.092	17.2	20.1
<b>115337</b>	2003 SG <sub>226</sub> 12 26.1 39°38 2°9/26.4 18						<b>141708</b>	2002 LU <sub>7</sub> 12 26.2 95°16 0°3/26.1 18					
11 17	6 45.88	+15 39.6	1.836	2.615	16.0	19.3	11 17	6 55.68	+22 25.2	1.545	2.325	18.4	20.4
11 27	6 42.13	+15 23.6	1.770	2.632	12.7	19.1	11 27	6 50.47	+22 47.8	1.481	2.348	14.5	20.2
12 7	6 35.91	+15 14.7	1.724	2.650	9.0	18.9	12 7	6 41.95	+23 14.5	1.438	2.369	10.0	20.0
12 17	6 27.86	+15 13.4	1.703	2.668	5.1	18.7	12 17	6 30.92	+23 42.0	1.419	2.391	4.9	19.8
12 27	6 18.96	+15 19.4	1.710	2.687	2.9	18.6	12 27	6 18.72	+24 6.6	1.429	2.412	0.6	19.5
1 6	6 10.34	+15 32.0	1.745	2.706	5.5	18.8	1 6	6 6.96	+24 26.1	1.467	2.432	5.6	19.9
1 16	6 3.04	+15 50.0	1.808	2.726	9.1	19.1	1 16	5 57.06	+24 40.1	1.532	2.452	10.3	20.2
1 26	5 57.85	+16 12.2	1.895	2.746	12.5	19.3	1 26	5 50.07	+24 50.1	1.622	2.472	14.3	20.5
<b>124998</b>	2001 TS <sub>147</sub> 12 26.1 12°71 1°2/26.3 18						<b>7611</b>	Hashitatsu 12 26.2 171°55 0°9/26.3 18					
11 17	6 48.11	+19 10.6	1.384	2.184	19.2	19.6	11 17	6 47.04	+19 12.5	2.675	3.433	12.0	17.6
11 27	6 45.09	+19 22.2	1.308	2.186	15.4	19.3	11 27	6 42.43	+19 25.0	2.582	3.435	9.5	17.5
12 7	6 38.66	+19 41.9	1.252	2.187	10.7	19.1	12 7	6 35.87	+19 41.5	2.512	3.437	6.6	17.3
12 17	6 29.48	+20 8.0	1.218	2.190	5.4	18.8	12 17	6 27.83	+20 1.0	2.470	3.439	3.4	17.1
12 27	6 18.80	+20 38.0	1.210	2.193	1.3	18.5	12 27	6 19.01	+20 22.1	2.458	3.441	0.9	16.9
1 6	6 8.26	+21 8.9	1.229	2.196	6.1	18.8	1 6	6 10.23	+20 43.6	2.478	3.442	3.8	17.1
1 16	5 59.43	+21 38.9	1.273	2.200	11.3	19.1	1 16	6 2.31	+21 4.7	2.528	3.443	7.0	17.3
1 26	5 53.54	+22 7.3	1.340	2.205	15.8	19.4	1 26	5 55.95	+21 25.0	2.605	3.443	9.9	17.5
<b>171101</b>	2005 EL <sub>266</sub> 12 26.1 21°25 3°6/26.9 18						<b>191502</b>	2003 UL <sub>48</sub> 12 26.2 72°10 0°4/26.2 18					
11 17	6 47.98	+11 35.8	1.743	2.513	17.1	19.9	11 17	6 47.17	+20 45.3	2.221	2.992	13.8	20.0
11 27	6 44.19	+11 55.4	1.659	2.514	13.8	19.7	11 27	6 42.86	+21 1.0	2.145	3.006	10.9	19.8
12 7	6 37.63	+12 28.7	1.594	2.515	10.0	19.5	12 7	6 36.31	+21 20.5	2.091	3.020	7.5	19.6
12 17	6 28.86	+13 15.7	1.555	2.517	6.0	19.2	12 17	6 28.06	+21 42.1	2.063	3.034	3.7	19.4
12 27	6 18.86	+14 14.6	1.543	2.519	3.6	19.1	12 27	6 18.99	+22 4.1	2.065	3.048	0.5	19.2
1 6	6 8.89	+15 21.6	1.560	2.521	6.0	19.2	1 6	6 10.10	+22 25.0	2.097	3.062	4.2	19.5
1 16	6 0.19	+16 32.8	1.605	2.523	10.0	19.5	1 16	6 2.31	+22 44.0	2.158	3.076	7.8	19.8
1 26	5 53.78	+17 44.5	1.675	2.526	13.8	19.7	1 26	5 56.41	+23 1.1	2.245	3.090	11.0	20.0
<b>458564</b>	2011 EN <sub>60</sub> 12 26.1 51°20 0°3/26.2 16						<b>192971</b>	2000 DE <sub>14</sub> 12 26.2 127°31 2°1/26.4 17					
11 17	6 46.70	+20 7.2	2.142	2.915	14.2	21.5	11 17	6 45.87	+16 1.2	2.665	3.419	12.1	20.8
11 27	6 42.66	+20 35.3	2.060	2.923	11.2	21.3	11 27	6 41.39	+15 54.5	2.580	3.429	9.7	20.7
12 7	6 36.28	+21 8.7	2.001	2.931	7.7	21.1	12 7	6 35.08	+15 52.7	2.518	3.439	6.8	20.5
12 17	6 28.08	+21 45.4	1.968	2.939	3.8	20.9	12 17	6 27.41	+15 55.7	2.484	3.449	3.8	20.3
12 27	6 18.94	+22 22.9	1.964	2.947	0.5	20.6	12 27	6 19.06	+16 3.3	2.480	3.458	2.1	20.2
1 6	6 9.90	+22 58.9	1.990	2.956	4.4	20.9	1 6	6 10.83	+16 14.7	2.507	3.467	4.2	20.4
1 16	6 1.96	+23 32.0	2.045	2.964	8.2	21.2	1 16	6 3.48	+16 29.4	2.564	3.475	7.1	20.6
1 26	5 55.96	+24 1.7	2.126	2.973	11.5	21.4	1 26	5 57.64	+16 46.8	2.647	3.484	9.8	20.8
<b>169703</b>	2002 LR <sub>34</sub> 12 26.1 102°99 3°3/25.8 18 R						<b>335339</b>	2005 SK <sub>10</sub> 12 26.2 102°69 5°8/24.9 18					
11 17	6 54.31	+30 23.0	1.969	2.736	15.4	20.4	11 17	7 2.22	+32 46.4	1.818	2.576	16.9	20.5
11 27	6 48.99	+31 9.2	1.898	2.755	12.3	20.2	11 27	6 55.84	+34 36.7	1.755	2.602	13.6	20.3
12 7	6 40.76	+31 53.5	1.850	2.774	8.7	20.0	12 7	6 45.86	+36 25.7	1.715	2.628	10.0	

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12 26.2

12 26.2

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>17243</b>	2000 <i>FX</i> <sub>35</sub>		12 26.2 290°53	2.8/25.6	18		<b>270105</b>	2001 <i>QQ</i> <sub>329</sub>		12 26.2 114°73	4.2/26.7	18	
11 17	6 50.42	+26 50.7	1.876	2.655	15.7	18.1	11 17	6 50.30	+12 24.1	1.675	2.445	17.6	20.8
11 27	6 46.71	+27 48.5	1.763	2.628	12.7	17.9	11 27	6 46.00	+12 13.1	1.598	2.453	14.3	20.6
12 7	6 39.86	+28 51.3	1.672	2.601	9.0	17.6	12 7	6 38.84	+12 13.1	1.542	2.461	10.4	20.4
12 17	6 30.23	+29 54.4	1.606	2.574	5.0	17.3	12 17	6 29.44	+12 25.0	1.509	2.470	6.4	20.1
12 27	6 18.77	+30 51.9	1.568	2.546	2.9	17.1	12 27	6 18.91	+12 48.6	1.504	2.477	4.2	20.0
1 6	6 6.86	+31 38.8	1.559	2.518	6.3	17.3	1 6	6 8.55	+13 22.2	1.527	2.485	6.5	20.2
1 16	5 56.03	+32 12.8	1.579	2.491	10.7	17.4	1 16	5 59.61	+14 3.1	1.578	2.493	10.5	20.4
1 26	5 47.69	+32 34.6	1.622	2.463	14.7	17.6	1 26	5 53.11	+14 48.9	1.653	2.500	14.2	20.7
<b>375112</b>	2007 <i>TD</i> <sub>280</sub>		12 26.2 113°53	9.5/28.6	18		<b>402773</b>	2007 <i>BO</i> <sub>78</sub>		12 26.2 359°77	4.7/26.3	17	
11 17	6 44.19	-11 32.9	2.856	3.497	13.7	21.7	11 17	6 51.92	+36 0.4	1.861	2.634	16.0	21.0
11 27	6 39.88	-12 26.3	2.789	3.511	12.3	21.6	11 27	6 47.58	+36 15.8	1.777	2.633	13.0	20.8
12 7	6 33.94	-13 2.5	2.740	3.524	11.0	21.5	12 7	6 40.07	+36 23.2	1.714	2.632	9.6	20.6
12 17	6 26.82	-13 18.0	2.714	3.538	10.0	21.5	12 17	6 30.08	+36 17.9	1.675	2.632	6.3	20.4
12 27	6 19.13	-13 10.3	2.712	3.551	9.5	21.4	12 27	6 18.85	+35 56.3	1.664	2.632	4.7	20.3
1 6	6 11.57	-12 39.5	2.735	3.563	9.7	21.5	1 6	6 7.91	+35 18.0	1.681	2.633	6.7	20.4
1 16	6 4.79	-11 47.8	2.783	3.576	10.6	21.6	1 16	5 58.64	+34 26.2	1.725	2.633	10.1	20.6
1 26	5 59.37	-10 39.0	2.854	3.588	11.8	21.7	1 26	5 52.10	+33 26.4	1.794	2.634	13.5	20.9
<b>455465</b>	2003 <i>UW</i> <sub>6</sub>		12 26.2 40°80	4.3/25.9	18		<b>159816</b>	2003 <i>SJ</i> <sub>232</sub>		12 26.2 158°97	0.1/26.2	18	
11 17	6 47.85	+15 16.2	1.897	2.668	15.8	19.6	11 17	6 47.14	+22 9.1	2.695	3.454	11.9	20.5
11 27	6 43.50	+14 5.2	1.827	2.684	12.7	19.4	11 27	6 42.50	+22 19.6	2.604	3.459	9.4	20.3
12 7	6 36.75	+12 58.6	1.780	2.701	9.2	19.2	12 7	6 35.92	+22 32.2	2.537	3.464	6.4	20.1
12 17	6 28.26	+11 59.0	1.759	2.718	5.8	19.1	12 17	6 27.87	+22 45.4	2.497	3.468	3.2	19.9
12 27	6 19.01	+11 9.4	1.766	2.735	4.4	19.0	12 27	6 19.06	+22 58.0	2.488	3.472	0.3	19.7
1 6	6 10.10	+10 31.6	1.802	2.753	6.4	19.2	1 6	6 10.33	+23 9.0	2.510	3.475	3.7	20.0
1 16	6 2.51	+10 6.4	1.866	2.771	9.7	19.4	1 16	6 2.49	+23 18.0	2.563	3.478	6.9	20.2
1 26	5 57.02	+9 53.4	1.954	2.790	12.8	19.6	1 26	5 56.23	+23 25.5	2.642	3.481	9.8	20.4
<b>515791</b>	2015 <i>LT</i> <sub>21</sub>		12 26.2 150°29	1.3/26.2	18		<b>509665</b>	2008 <i>HM</i> <sub>19</sub>		12 26.2 235°51	0.8/26.3	18	
11 17	6 53.53	+20 47.7	2.064	2.826	15.0	21.9	11 17	6 52.27	+19 1.8	1.830	2.601	16.3	22.3
11 27	6 47.97	+20 26.1	1.981	2.836	11.9	21.7	11 27	6 47.80	+19 25.4	1.728	2.589	13.1	22.0
12 7	6 39.86	+20 6.2	1.919	2.845	8.3	21.5	12 7	6 40.33	+19 56.6	1.648	2.576	9.2	21.8
12 17	6 29.82	+19 47.6	1.885	2.854	4.2	21.2	12 17	6 30.34	+20 33.6	1.592	2.563	4.7	21.5
12 27	6 18.86	+19 29.9	1.880	2.862	1.4	21.0	12 27	6 18.82	+21 13.7	1.566	2.549	0.9	21.2
1 6	6 8.13	+19 13.6	1.906	2.869	4.8	21.3	1 6	6 7.12	+21 53.7	1.569	2.534	5.4	21.4
1 16	5 58.73	+18 59.4	1.961	2.876	8.8	21.6	1 16	5 56.62	+22 31.4	1.600	2.519	10.1	21.7
1 26	5 51.51	+18 48.3	2.043	2.882	12.2	21.8	1 26	5 48.54	+23 6.2	1.657	2.503	14.2	21.9
<b>414999</b>	2011 <i>FJ</i> <sub>55</sub>		12 26.2 324°61	0.4/26.2	18		<b>286218</b>	2001 <i>UX</i> <sub>107</sub>		12 26.2 92°29	0.6/26.2	18	
11 17	6 45.38	+21 39.2	1.999	2.780	14.8	20.9	11 17	6 53.57	+21 33.1	1.670	2.448	17.4	21.2
11 27	6 41.99	+21 46.0	1.902	2.770	11.7	20.7	11 27	6 48.53	+21 34.7	1.604	2.468	13.7	21.0
12 7	6 36.06	+21 56.3	1.827	2.760	8.1	20.5	12 7	6 40.48	+21 39.7	1.558	2.489	9.4	20.8
12 17	6 28.10	+22 8.6	1.778	2.750	4.0	20.2	12 17	6 30.18	+21 46.2	1.537	2.509	4.6	20.5
12 27	6 19.01	+22 21.4	1.757	2.741	0.5	19.9	12 27	6 18.86	+21 52.4	1.545	2.528	0.7	20.3
1 6	6 9.90	+22 33.3	1.765	2.732	4.8	20.2	1 6	6 7.94	+21 57.3	1.582	2.547	5.3	20.7
1 16	6 1.91	+22 43.8	1.801	2.723	8.9	20.5	1 16	5 58.69	+22 1.0	1.646	2.566	9.7	21.0
1 26	5 55.98	+22 53.2	1.862	2.715	12.6	20.7	1 26	5 52.07	+22 4.2	1.735	2.585	13.5	21.2
<b>32023</b>	2000 <i>HO</i> <sub>89</sub>		12 26.2 81°09	1.4/26.3	18		<b>357033</b>	2000 <i>HN</i> <sub>47</sub>		12 26.2 243°88	4.6/25.3	17	
11 17	6 53.66	+19 32.0	1.602	2.380	18.0	19.4	11 17	6 52.39	+33 23.1	2.138	2.902	14.5	21.0
11 27	6 48.58	+19 28.8	1.541	2.406	14.2	19.3	11 27	6 47.82	+34 24.4	2.040	2.892	11.8	20.8
12 7	6 40.48	+19 30.7	1.501	2.431	9.8	19.0	12 7	6 40.29	+35 24.1	1.965	2.882	8.7	20.6
12 17	6 30.15	+19 36.6	1.485	2.455	5.0	18.8	12 17	6 30.31	+36 16.5	1.916	2.872	5.8	20.4
12 27	6 18.85	+19 44.8	1.498	2.480	1.5	18.6	12 27	6 18.85	+36 56.0	1.896	2.861	4.7	20.3
1 6	6 8.01	+19 54.2	1.539	2.504	5.5	19.0	1 6	6 7.26	+37 19.2	1.905	2.850	6.7	20.4
1 16	5 58.92	+20 4.4	1.607	2.528	9.9	19.3	1 16	5 56.91	+37 25.8	1.942	2.839	9.9	20.5
1 26	5 52.49	+20 15.6	1.701	2.551	13.7	19.6	1 26	5 48.95	+37 18.7	2.004	2.827	13.0	20.7
<b>329884</b>	2005 <i>EO</i> <sub>147</sub>		12 26.2 181°08	0.5/26.1	18		<b>272947</b>	2006 <i>BS</i> <sub>279</sub>		12 26.2 127°34	2.7/26.1	17	
11 17	6 53.93	+23 37.3	1.734	2.510	16.9	21.5	11 17	6 50.25	+31 50.8	2.396	3.158	13.2	21.4
11 27	6 49.11	+23 52.7	1.647	2.511	13.5	21.3	11 27	6 45.34	+32 3.4	2.311	3.164	10.5	21.2
12 7	6 41.15	+24 10.8	1.581	2.511	9.3	21.0	12 7	6 38.05	+32 12.0	2.248	3.170	7.5	21.0
12 17	6 30.65	+24 28.8	1.540	2.512	4.6	20.7	12 17	6 28.96	+32 13.5	2.212	3.176	4.3	20.8
12 27	6 18.78	+24 43.6	1.528	2.511	0.7	20.4	12 27	6 19.00	+32 5.7	2.206	3.181	2.7	20.7
1 6	6 7.01	+24 53.3	1.545	2.510	5.5	20.8	1 6	6 9.23	+31 48.2	2.230	3.187	4.9	20.9
1 16	5 56.75	+24 57.9	1.589	2.508	10.1	21.1	1 16	6 0.66	+31 22.4	2.283	3.192	8.0	21.1
1 26	5 49.16	+24 59.0	1.659	2.506	14.1	21.3	1 26	5 54.11	+30 51.0	2.362	3.197	10.9	21.3
<b>79259</b>	1995 <i>DR</i> <sub>9</sub>		12 26.2 82°16	0.6/26.1	18		<b>104787</b>	2000 <i>HZ</i> <sub>35</sub>		12 26.2 186°18	5.8/24.6	18	
11 17	6 50.37	+25 22.0	1.888	2.666	15.6	19.8	11 17	6 52.82	+39 0.2	2.646	3.388	12.5	19.9
11 27	6 45.87	+25 19.7	1.809	2.674	12.4	19.6	11 27	6 47.74	+40 23.3	2.557	3.388	10.4	19.8
12 7	6 38.62	+25 16.9	1.752	2.683	8.5	19.3	12 7	6 40.01	+41 42.1	2.493	3.388	8.1	19.6
12 17	6 29.28	+25 11.8	1.721	2.692	4.2	19.1	12 17	6 30.09	+42 50.6	2.455	3.387	6.3	19.5
12 27	6 18.92	+25 2.8	1.718	2.701	0.7	18.9	12 27	6 18.88	+43 43.4	2.447	3.386	5.8	19.5
1 6	6 8.82	+24 49.6	1.744	2.710	4.9	19.2	1 6	6 7.54	+44 17.3	2.469	3.385	7.1	19.5
1 16	6 0.15	+24 33.3	1.799	2.718	9.1	19.5	1 16	5 57.26	+44 32.3	2.518	3.384	9.2	19.7
1 26	5 53.84	+24 15.9	1.878	2.727	12.7	19.7	1 26	5 49.09	+44 31.2	2.593	3.383	11.4	19.8
<b>12344</b>	1993 <i>FB</i> <sub>1</sub>		12 26.2 237°50	2.3/25.8	18		<b>362252</b>	2009 <i>LV</i>		12 26.2 158°25	2.		

EPHEMERIDES

12 26.2

12 26.2

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>69089</b>	2003 <i>BN</i> <sub>18</sub>	12 26.2 219°65	0°3/26.1	18			<b>272326</b>	2005 <i>ST</i> <sub>91</sub>	12 26.2 116°60	0°4/26.2	18		
11 17	6 52.17	+23 46.1	1.919	2.691	15.6	20.5	11 17	6 54.28	+22 1.7	1.807	2.578	16.5	22.0
11 27	6 47.50	+23 53.4	1.822	2.684	12.5	20.3	11 27	6 48.94	+22 4.7	1.735	2.596	13.0	21.8
12 7	6 39.96	+24 2.5	1.747	2.677	8.6	20.0	12 7	6 40.74	+22 10.4	1.684	2.613	9.0	21.6
12 17	6 30.08	+24 11.1	1.698	2.669	4.3	19.8	12 17	6 30.37	+22 17.0	1.658	2.629	4.4	21.4
12 27	6 18.90	+24 16.9	1.677	2.660	0.5	19.5	12 27	6 18.97	+22 22.5	1.662	2.645	0.5	21.1
1 6	6 7.72	+24 18.7	1.686	2.651	5.1	19.8	1 6	6 7.89	+22 26.1	1.695	2.660	5.1	21.5
1 16	5 57.83	+24 16.7	1.724	2.642	9.5	20.0	1 16	5 58.37	+22 27.8	1.757	2.675	9.3	21.8
1 26	5 50.32	+24 12.4	1.786	2.632	13.4	20.2	1 26	5 51.34	+22 28.7	1.843	2.689	13.0	22.0
<b>202339</b>	2005 <i>EB</i> <sub>112</sub>	12 26.2 237°94	6°5/25.3	18			<b>437869</b>	2000 <i>YZ</i> <sub>30</sub>	12 26.2 18°20	0°4/26.2	16		
11 17	6 52.54	+42 58.3	2.545	3.283	13.1	20.5	11 17	6 48.88	+27 22.2	1.198	2.013	20.8	19.9
11 27	6 47.65	+43 56.2	2.457	3.280	11.0	20.3	11 27	6 46.12	+26 43.2	1.134	2.020	16.5	19.7
12 7	6 39.97	+44 46.1	2.391	3.276	8.9	20.2	12 7	6 39.50	+25 59.1	1.089	2.029	11.4	19.4
12 17	6 30.05	+45 22.2	2.351	3.273	7.1	20.1	12 17	6 29.93	+25 8.9	1.066	2.039	5.6	19.1
12 27	6 18.90	+45 39.7	2.338	3.269	6.6	20.0	12 27	6 19.02	+24 13.0	1.068	2.051	0.7	18.8
1 6	6 7.81	+45 36.8	2.354	3.266	7.6	20.1	1 6	6 8.69	+23 14.6	1.095	2.064	6.4	19.3
1 16	5 58.02	+45 14.6	2.397	3.262	9.6	20.2	1 16	6 0.57	+22 18.3	1.147	2.077	11.8	19.6
1 26	5 50.55	+44 37.2	2.464	3.258	11.8	20.3	1 26	5 55.78	+21 28.1	1.221	2.093	16.4	19.9
<b>242223</b>	2003 <i>SR</i> <sub>24</sub>	12 26.2 122°52	5°3/27.0	18			<b>11290</b>	1991 <i>RA</i> <sub>1</sub>	12 26.2 56°22	6°2/26.6	18		
11 17	6 49.25	+ 8 15.5	1.986	2.734	16.0	20.9	11 17	6 58.12	+38 29.7	1.508	2.283	19.1	17.4
11 27	6 44.63	+ 7 57.0	1.909	2.746	13.1	20.8	11 27	6 52.97	+38 53.1	1.450	2.304	15.5	17.2
12 7	6 37.62	+ 7 50.5	1.852	2.757	9.9	20.6	12 7	6 43.92	+39 5.0	1.411	2.326	11.6	17.0
12 17	6 28.79	+ 7 57.8	1.821	2.768	6.8	20.4	12 17	6 31.97	+38 58.6	1.396	2.347	7.9	16.8
12 27	6 19.04	+ 8 19.2	1.817	2.779	5.3	20.4	12 27	6 18.85	+38 29.5	1.406	2.369	6.2	16.8
1 6	6 9.46	+ 8 53.6	1.843	2.789	6.8	20.5	1 6	6 6.52	+37 38.7	1.444	2.391	8.1	17.0
1 16	6 1.07	+ 9 38.5	1.897	2.799	9.7	20.7	1 16	5 56.61	+36 31.9	1.507	2.414	11.5	17.2
1 26	5 54.70	+10 30.6	1.975	2.809	12.8	20.9	1 26	5 50.15	+35 17.1	1.595	2.436	14.9	17.5
<b>145535</b>	2006 <i>GP</i> <sub>3</sub>	12 26.2 192°91	0°4/26.1	18			<b>189329</b>	2007 <i>DU</i> <sub>46</sub>	12 26.2 266°79	1°5/26.2	18		
11 17	6 47.14	+22 53.1	2.640	3.401	12.1	20.5	11 17	6 52.26	+27 5.6	1.621	2.406	17.5	20.5
11 27	6 42.68	+23 21.8	2.543	3.400	9.6	20.3	11 27	6 48.25	+27 7.6	1.527	2.397	14.0	20.2
12 7	6 36.17	+23 53.2	2.471	3.399	6.6	20.1	12 7	6 40.86	+27 8.3	1.454	2.386	9.8	19.9
12 17	6 28.08	+24 25.4	2.427	3.397	3.2	19.9	12 17	6 30.69	+27 4.4	1.405	2.376	5.0	19.6
12 27	6 19.11	+24 56.1	2.412	3.395	0.5	19.7	12 27	6 18.95	+26 53.2	1.384	2.366	1.5	19.4
1 6	6 10.14	+25 23.6	2.429	3.393	3.9	19.9	1 6	6 7.24	+26 33.9	1.390	2.356	5.9	19.6
1 16	6 2.04	+25 46.9	2.476	3.391	7.2	20.1	1 16	5 57.13	+26 8.2	1.424	2.345	10.8	19.9
1 26	5 55.55	+26 6.3	2.550	3.388	10.1	20.3	1 26	5 49.89	+25 39.5	1.481	2.335	15.1	20.1
<b>517301</b>	2014 <i>HY</i> <sub>96</sub>	12 26.2 159°33	2°6/26.4	18			<b>271683</b>	2004 <i>RW</i> <sub>83</sub>	12 26.2 194°83	17°7/26.6	17		
11 17	6 49.37	+16 7.2	1.986	2.752	15.4	22.4	11 17	6 51.30	- 7 34.4	1.242	1.971	24.7	20.3
11 27	6 44.90	+15 57.5	1.900	2.756	12.3	22.2	11 27	6 47.79	-10 0.4	1.180	1.970	22.3	20.1
12 7	6 37.93	+15 54.4	1.835	2.759	8.7	22.0	12 7	6 40.68	-12 1.6	1.132	1.969	20.0	19.9
12 17	6 28.99	+15 57.7	1.796	2.762	4.9	21.8	12 17	6 30.64	-13 24.8	1.103	1.968	18.3	19.8
12 27	6 19.03	+16 7.2	1.786	2.764	2.6	21.6	12 27	6 18.96	-13 59.3	1.092	1.967	17.7	19.8
1 6	6 9.18	+16 21.8	1.806	2.767	5.3	21.8	1 6	6 7.38	-13 41.5	1.101	1.965	18.4	19.8
1 16	6 0.53	+16 40.7	1.853	2.769	9.1	22.1	1 16	5 57.55	-12 35.1	1.130	1.963	20.2	19.9
1 26	5 53.97	+17 2.8	1.927	2.770	12.6	22.3	1 26	5 50.81	-10 50.6	1.175	1.960	22.6	20.1
<b>52213</b>	4181 <i>T</i> <sub>-3</sub>	12 26.2 86°63	0°3/26.2	18			<b>310258</b>	2011 <i>UZ</i> <sub>30</sub>	12 26.2 153°20	4°3/25.5	18		
11 17	6 55.47	+21 32.8	1.563	2.342	18.3	19.8	11 17	6 54.55	+33 30.9	2.263	3.019	14.0	21.0
11 27	6 50.17	+21 47.1	1.503	2.368	14.4	19.6	11 27	6 49.17	+34 32.6	2.180	3.027	11.3	20.8
12 7	6 41.68	+22 5.7	1.463	2.394	9.9	19.4	12 7	6 41.00	+35 31.6	2.119	3.034	8.3	20.6
12 17	6 30.81	+22 25.9	1.448	2.419	4.8	19.1	12 17	6 30.60	+36 22.5	2.086	3.040	5.5	20.5
12 27	6 18.88	+22 44.8	1.461	2.444	0.5	18.9	12 27	6 18.98	+37 0.2	2.082	3.046	4.4	20.4
1 6	6 7.43	+23 0.5	1.503	2.468	5.5	19.3	1 6	6 7.42	+37 21.9	2.108	3.051	6.2	20.5
1 16	5 57.83	+23 12.8	1.572	2.492	10.1	19.6	1 16	5 57.15	+37 28.0	2.162	3.056	9.2	20.7
1 26	5 51.06	+23 22.7	1.665	2.515	13.9	19.9	1 26	5 49.20	+37 21.4	2.243	3.061	12.0	20.9
<b>144844</b>	2004 <i>JD</i> <sub>41</sub>	12 26.2 222°99	1°3/26.2	18			<b>11645</b>	1997 <i>BY</i> <sub>1</sub>	12 26.2 61°63	5°2/27.4	18		
11 17	6 53.26	+26 42.6	1.731	2.510	16.8	20.6	11 17	6 49.71	+ 8 33.6	1.579	2.345	18.7	17.6
11 27	6 48.72	+26 44.2	1.639	2.505	13.4	20.3	11 27	6 45.56	+ 8 36.1	1.515	2.364	15.2	17.4
12 7	6 40.97	+26 44.7	1.568	2.499	9.4	20.1	12 7	6 38.53	+ 8 54.6	1.471	2.384	11.3	17.2
12 17	6 30.64	+26 41.0	1.523	2.493	4.8	19.8	12 17	6 29.34	+ 9 30.0	1.450	2.404	7.4	17.0
12 27	6 18.90	+26 30.9	1.505	2.487	1.3	19.5	12 27	6 19.11	+10 21.2	1.456	2.424	5.2	17.0
1 6	6 7.26	+26 13.5	1.516	2.481	5.6	19.8	1 6	6 9.18	+11 24.5	1.489	2.444	7.1	17.1
1 16	5 57.16	+25 50.4	1.554	2.474	10.2	20.1	1 16	6 0.77	+12 35.5	1.550	2.464	10.7	17.4
1 26	5 49.78	+25 24.7	1.617	2.467	14.3	20.3	1 26	5 54.84	+13 49.7	1.636	2.484	14.2	17.7
<b>64388</b>	2001 <i>UD</i> <sub>148</sub>	12 26.2 297°98	3°8/26.3	18			<b>34443</b>	2000 <i>ST</i> <sub>70</sub>	12 26.2 36°29	0°7/26.3	18		
11 17	6 48.43	+16 2.7	1.559	2.345	18.0	20.1	11 17	6 47.44	+20 37.0	1.926	2.705	15.3	19.5
11 27	6 45.02	+15 26.4	1.470	2.337	14.6	19.8	11 27	6 43.58	+20 44.0	1.843	2.708	12.2	19.3
12 7	6 38.50	+14 55.9	1.400	2.328	10.5	19.5	12 7	6 37.13	+20 55.1	1.781	2.712	8.4	19.1
12 17	6 29.46	+14 33.0	1.354	2.319	6.2	19.3	12 17	6 28.67	+21 9.1	1.745	2.716	4.2	18.9
12 27	6 19.02	+14 19.0	1.335	2.311	3.8	19.1	12 27	6 19.17	+21 24.3	1.738	2.720	0.8	18.6
1 6	6 8.59	+14 14.4	1.342	2.303	6.9	19.3	1 6	6 9.78	+21 39.3	1.759	2.725	4.8	18.9
1 16	5 59.60	+14 19.1	1.376	2.295	11.4	19.5	1 16	6 1.63	+21 53.4	1.808	2.729	8.9	19.2
1 26	5 53.20	+14 32.3	1.433	2.287	15.5	19.7	1 26	5 55.65	+22 6.8	1.883	2.734	12.5	19.4
<b>135953</b>	2002 <i>TS</i> <sub>226</sub>	12 26.2 63°52	1°2/26.3	18			<b>190684</b>	2001 <i>DW</i> <sub>15</sub>	12 26.2 226°74	4°9/2			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>122078</b>	2000 <i>HM</i> <sub>32</sub>		12 26.2 189°35	0.4/26.2	18		<b>197287</b>	2003 <i>WR</i> <sub>113</sub>		12 26.2 76°72	0.1/26.2	18	
11 17	6 52.87	+23 53.7	1.986	2.754	15.3	21.4	11 17	6 48.02	+23 53.1	2.271	3.041	13.6	20.9
11 27	6 47.90	+24 2.1	1.894	2.754	12.2	21.2	11 27	6 43.54	+23 51.1	2.193	3.054	10.7	20.7
12 7	6 40.15	+24 11.9	1.824	2.752	8.4	21.0	12 7	6 36.82	+23 49.7	2.138	3.067	7.3	20.5
12 17	6 30.19	+24 21.1	1.780	2.751	4.2	20.7	12 17	6 28.45	+23 47.5	2.110	3.081	3.6	20.3
12 27	6 19.04	+24 27.2	1.765	2.748	0.5	20.4	12 27	6 19.29	+23 43.4	2.111	3.094	0.3	20.1
1 6	6 7.97	+24 29.3	1.780	2.745	4.9	20.8	1 6	6 10.34	+23 37.1	2.142	3.107	4.2	20.4
1 16	5 58.20	+24 27.4	1.824	2.742	9.1	21.0	1 16	6 2.53	+23 29.1	2.202	3.120	7.7	20.6
1 26	5 50.74	+24 23.1	1.894	2.737	12.8	21.2	1 26	5 56.63	+23 20.3	2.288	3.133	10.8	20.9
<b>240698</b>	2005 <i>GQ</i> <sub>7</sub>		12 26.2 136°24	2.2/25.9	18		<b>278636</b>	2008 <i>RX</i> <sub>1</sub>		12 26.2 166°31	0.5/26.2	18	
11 17	6 52.64	+28 21.1	2.406	3.163	13.2	20.7	11 17	6 47.73	+24 30.9	2.675	3.436	12.0	21.8
11 27	6 47.21	+29 1.0	2.324	3.177	10.5	20.5	11 27	6 43.08	+24 40.4	2.583	3.439	9.4	21.7
12 7	6 39.38	+29 40.4	2.267	3.190	7.3	20.3	12 7	6 36.43	+24 50.6	2.515	3.442	6.5	21.5
12 17	6 29.71	+30 15.6	2.236	3.202	4.0	20.1	12 17	6 28.26	+24 59.7	2.474	3.444	3.2	21.3
12 27	6 19.10	+30 43.3	2.237	3.214	2.3	20.0	12 27	6 19.30	+25 6.2	2.464	3.447	0.6	21.1
1 6	6 8.62	+31 1.8	2.268	3.225	4.7	20.2	1 6	6 10.43	+25 9.6	2.484	3.448	3.8	21.3
1 16	5 59.29	+31 10.9	2.329	3.236	7.9	20.4	1 16	6 2.48	+25 9.6	2.535	3.450	7.0	21.5
1 26	5 51.98	+31 12.4	2.416	3.246	10.9	20.7	1 26	5 56.15	+25 7.3	2.613	3.451	9.9	21.7
<b>43435</b>	2000 <i>YV</i> <sub>36</sub>		12 26.2 31°53	1.4/26.3	18		<b>214411</b>	2005 <i>OL</i> <sub>2</sub>		12 26.2 155°82	1.2/26.0	18	
11 17	6 48.46	+20 42.9	1.359	2.162	19.4	18.1	11 17	6 50.84	+25 24.6	2.464	3.223	12.9	21.8
11 27	6 45.27	+20 28.5	1.293	2.172	15.4	17.9	11 27	6 45.74	+25 55.8	2.376	3.230	10.2	21.6
12 7	6 38.71	+20 18.4	1.247	2.183	10.7	17.6	12 7	6 38.38	+26 28.1	2.311	3.237	7.0	21.4
12 17	6 29.54	+20 11.9	1.223	2.195	5.4	17.4	12 17	6 29.26	+26 58.9	2.274	3.243	3.6	21.2
12 27	6 19.12	+20 8.1	1.225	2.208	1.5	17.2	12 27	6 19.22	+27 25.4	2.267	3.249	1.3	21.0
1 6	6 9.07	+20 6.5	1.254	2.221	6.1	17.5	1 6	6 9.26	+27 45.9	2.292	3.254	4.3	21.2
1 16	6 0.84	+20 7.1	1.308	2.235	11.0	17.8	1 16	6 0.33	+27 59.9	2.346	3.259	7.6	21.5
1 26	5 55.54	+20 10.3	1.384	2.249	15.3	18.1	1 26	5 53.25	+28 8.4	2.428	3.263	10.6	21.7
<b>456863</b>	2007 <i>VX</i> <sub>7</sub>		12 26.2 59°38	10.3/25.8	16 C		<b>309997</b>	2009 <i>HK</i> <sub>101</sub>		12 26.2 318°64	3.3/26.3	18	
11 17	7 13.86	+13 37.6	0.815	1.610	29.7	21.4	11 17	6 47.07	+16 15.0	1.754	2.534	16.6	20.9
11 27	7 4.89	+10 38.1	0.795	1.661	23.8	21.2	11 27	6 43.58	+15 43.6	1.663	2.527	13.4	20.7
12 7	6 51.41	+7 55.7	0.792	1.711	17.5	21.1	12 7	6 37.33	+15 17.7	1.594	2.520	9.6	20.4
12 17	6 35.17	+5 42.4	0.811	1.761	12.2	21.0	12 17	6 28.89	+14 58.5	1.549	2.514	5.6	20.2
12 27	6 18.70	+4 8.1	0.853	1.810	10.3	21.1	12 27	6 19.25	+14 47.0	1.531	2.508	3.4	20.1
1 6	6 4.36	+3 15.2	0.919	1.859	12.7	21.4	1 6	6 9.66	+14 43.3	1.541	2.502	6.1	20.2
1 16	5 53.71	+2 59.4	1.008	1.906	16.7	21.8	1 16	6 1.34	+14 47.4	1.578	2.496	10.2	20.4
1 26	5 47.43	+3 11.8	1.115	1.951	20.3	22.2	1 26	5 55.30	+14 58.6	1.640	2.491	14.1	20.7
<b>12469</b>	<i>Katsuura</i>		12 26.2 297°20	3.5/26.1	18		<b>78625</b>	2002 <i>TU</i> <sub>14</sub>		12 26.2 337°14	0.9/26.3	18	
11 17	6 52.56	+30 45.7	1.442	2.236	18.9	18.2	11 17	6 44.72	+20 51.0	1.988	2.770	14.8	19.2
11 27	6 49.10	+31 4.0	1.353	2.226	15.3	17.9	11 27	6 41.49	+20 45.9	1.893	2.761	11.8	19.0
12 7	6 41.81	+31 18.8	1.284	2.216	10.9	17.7	12 7	6 35.78	+20 43.9	1.821	2.752	8.2	18.8
12 17	6 31.30	+31 24.8	1.238	2.206	6.2	17.4	12 17	6 28.09	+20 44.3	1.773	2.744	4.1	18.5
12 27	6 18.95	+31 17.2	1.218	2.196	3.6	17.2	12 27	6 19.32	+20 46.2	1.754	2.737	1.0	18.3
1 6	6 6.65	+30 54.3	1.225	2.187	7.1	17.4	1 6	6 10.58	+20 49.1	1.763	2.729	4.8	18.5
1 16	5 56.26	+30 18.6	1.257	2.178	12.0	17.6	1 16	6 2.94	+20 52.6	1.801	2.723	8.9	18.8
1 26	5 49.20	+29 35.6	1.311	2.169	16.5	17.9	1 26	5 57.35	+20 57.0	1.863	2.717	12.5	19.0
<b>223784</b>	2004 <i>SC</i> <sub>45</sub>		12 26.2 159°18	4.1/25.9	17		<b>190127</b>	2004 <i>YY</i> <sub>2</sub>		12 26.2 38°25	1.2/25.9	17	
11 17	6 52.14	+35 37.9	2.454	3.207	13.1	20.9	11 17	6 47.89	+23 56.3	2.036	2.813	14.7	19.4
11 27	6 46.99	+36 7.4	2.367	3.211	10.6	20.8	11 27	6 43.94	+24 40.6	1.954	2.819	11.6	19.2
12 7	6 39.32	+36 31.3	2.303	3.215	7.8	20.6	12 7	6 37.42	+25 28.5	1.895	2.826	8.0	19.0
12 17	6 29.71	+36 45.7	2.265	3.218	5.2	20.4	12 17	6 28.88	+26 16.7	1.862	2.833	4.0	18.8
12 27	6 19.13	+36 47.2	2.257	3.221	4.1	20.4	12 27	6 19.26	+27 1.4	1.859	2.840	1.3	18.6
1 6	6 8.70	+36 34.9	2.278	3.224	5.7	20.5	1 6	6 9.71	+27 39.8	1.884	2.848	4.8	18.9
1 16	5 59.51	+36 10.2	2.328	3.226	8.4	20.7	1 16	6 1.35	+28 10.5	1.938	2.856	8.7	19.1
1 26	5 52.44	+35 36.3	2.405	3.228	11.1	20.8	1 26	5 55.11	+28 34.0	2.018	2.864	12.0	19.3
<b>199950</b>	<i>Sierpc</i>		12 26.2 140°20	4.1/25.8	18		<b>265089</b>	2003 <i>SG</i> <sub>264</sub>		12 26.2 120°05	0.2/26.2	18	
11 17	6 55.81	+32 20.0	1.890	2.657	16.0	20.7	11 17	6 48.40	+23 22.3	2.648	3.408	12.1	21.6
11 27	6 50.57	+33 5.5	1.812	2.666	12.9	20.5	11 27	6 43.51	+23 33.8	2.567	3.422	9.5	21.4
12 7	6 42.16	+33 48.0	1.755	2.675	9.3	20.3	12 7	6 36.66	+23 46.5	2.510	3.437	6.5	21.3
12 17	6 31.23	+34 21.7	1.723	2.683	5.7	20.1	12 17	6 28.34	+23 58.9	2.481	3.451	3.2	21.1
12 27	6 18.99	+34 41.6	1.720	2.691	4.1	20.0	12 27	6 19.32	+24 9.5	2.482	3.465	0.4	20.9
1 6	6 6.95	+34 45.6	1.746	2.698	6.5	20.2	1 6	6 10.45	+24 17.4	2.514	3.478	3.7	21.2
1 16	5 56.54	+34 34.8	1.800	2.705	10.0	20.4	1 16	6 2.55	+24 22.6	2.576	3.491	6.9	21.4
1 26	5 48.85	+34 13.3	1.879	2.711	13.4	20.6	1 26	5 56.29	+24 25.6	2.666	3.504	9.7	21.6
<b>291794</b>	2006 <i>KG</i> <sub>64</sub>		12 26.2 76°64	4.5/26.7	18		<b>486309</b>	2013 <i>CE</i> <sub>97</sub>		12 26.2 35°08	7.8/27.9	18	
11 17	6 49.91	+12 7.5	1.744	2.511	17.2	21.1	11 17	6 46.78	+3 1.5	1.684	2.434	18.3	20.8
11 27	6 45.42	+11 41.4	1.679	2.531	13.9	20.9	11 27	6 43.25	+2 37.8	1.608	2.439	15.5	20.6
12 7	6 38.28	+11 25.4	1.634	2.551	10.1	20.8	12 7	6 37.03	+2 32.5	1.551	2.444	12.3	20.4
12 17	6 29.18	+11 20.8	1.613	2.571	6.4	20.6	12 17	6 28.71	+2 49.0	1.516	2.449	9.3	20.3
12 27	6 19.18	+11 28.0	1.621	2.591	4.5	20.5	12 27	6 19.29	+3 28.7	1.507	2.455	7.8	20.2
1 6	6 9.51	+11 46.0	1.656	2.611	6.5	20.7	1 6	6 9.99	+4 29.6	1.525	2.461	8.9	20.3
1 16	6 1.27	+12 13.1	1.719	2.630	10.0	20.9	1 16	6 1.97	+5 47.3	1.568	2.467	11.7	20.5
1 26	5 55.31	+12 47.0	1.807	2.650	13.3	21.2	1 26	5 56.19	+7 15.8	1.636	2.473	14.8	20.7
<b>411130</b>	2009 <i>WU</i> <sub>209</sub>		12 26.2 41°73	0.4/26.3	18		<b>508885</b>	2003 <i>SX</i> <sub>267</sub>		12 26.2 33°64	6.8/27.3	14 C	

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>161455</b>	2004 AR		12 26.2	33°23	3°5/26.7	18	<b>220965</b>	2005 MX <sub>28</sub>		12 26.2	297°58	4°4/26.4	18
11 17	6 48.56	+14 49.2	1.154	1.962	21.8	19.1	11 17	6 49.18	+14 58.6	1.469	2.256	18.9	20.8
11 27	6 45.47	+14 48.4	1.110	1.989	17.4	18.9	11 27	6 45.82	+14 21.0	1.383	2.250	15.4	20.5
12 7	6 38.83	+15 0.8	1.085	2.018	12.2	18.7	12 7	6 39.21	+13 50.8	1.317	2.243	11.2	20.2
12 17	6 29.57	+15 25.7	1.080	2.048	6.8	18.5	12 17	6 29.97	+13 30.0	1.274	2.237	6.8	20.0
12 27	6 19.24	+16 0.9	1.100	2.080	3.5	18.4	12 27	6 19.24	+13 20.3	1.256	2.231	4.4	19.8
1 6	6 9.54	+16 42.7	1.146	2.112	6.9	18.7	1 6	6 8.56	+13 21.9	1.266	2.226	7.3	20.0
1 16	6 1.94	+17 27.8	1.216	2.145	11.6	19.1	1 16	5 59.41	+13 34.3	1.301	2.220	11.9	20.2
1 26	5 57.42	+18 13.4	1.309	2.178	15.7	19.4	1 26	5 52.99	+13 55.9	1.359	2.214	16.1	20.5
<b>51774</b>	2001 MH <sub>1</sub>		12 26.2	135°70	4°1/26.2	18	<b>290161</b>	2005 RE <sub>2</sub>		12 26.2	135°15	1°0/26.3	18
11 17	6 55.65	+35 28.1	2.251	3.003	14.2	19.4	11 17	6 52.83	+28 18.0	2.305	3.065	13.7	20.8
11 27	6 49.85	+35 49.7	2.171	3.015	11.5	19.2	11 27	6 47.32	+27 57.9	2.219	3.073	10.8	20.8
12 7	6 41.32	+36 4.8	2.113	3.026	8.4	19.0	12 7	6 39.42	+27 34.2	2.156	3.082	7.5	20.5
12 17	6 30.72	+36 9.0	2.082	3.037	5.4	18.8	12 17	6 29.76	+27 5.1	2.120	3.089	3.8	20.2
12 27	6 19.14	+35 59.4	2.080	3.047	4.1	18.8	12 27	6 19.28	+26 30.1	2.115	3.097	1.1	20.0
1 6	6 7.86	+35 35.3	2.108	3.057	5.8	18.9	1 6	6 9.09	+25 50.0	2.140	3.104	4.3	20.3
1 16	5 58.06	+34 59.0	2.165	3.066	8.8	19.1	1 16	6 0.16	+25 7.0	2.196	3.111	7.9	20.5
1 26	5 50.63	+34 14.7	2.248	3.074	11.7	19.3	1 26	5 53.31	+24 24.0	2.278	3.117	11.1	20.7
<b>381363</b>	2008 EZ <sub>21</sub>		12 26.2	279°36	3°5/26.4	18	<b>80993</b>	2000 EY <sub>26</sub>		12 26.2	90°64	1°2/26.3	18
11 17	6 49.66	+16 23.9	1.497	2.284	18.6	21.2	11 17	6 53.55	+19 39.6	1.613	2.391	17.9	20.0
11 27	6 46.31	+15 57.4	1.402	2.270	15.1	21.0	11 27	6 48.69	+19 45.3	1.547	2.411	14.1	19.8
12 7	6 39.66	+15 37.6	1.327	2.256	10.9	20.7	12 7	6 40.78	+19 56.7	1.501	2.431	9.8	19.5
12 17	6 30.23	+15 25.7	1.275	2.242	6.3	20.4	12 17	6 30.54	+20 12.1	1.480	2.451	4.9	19.3
12 27	6 19.16	+15 22.3	1.250	2.228	3.5	20.2	12 27	6 19.22	+20 29.2	1.487	2.470	1.2	19.1
1 6	6 7.98	+15 27.3	1.251	2.213	6.9	20.3	1 6	6 8.26	+20 46.4	1.523	2.489	5.4	19.4
1 16	5 58.24	+15 40.2	1.278	2.199	11.8	20.6	1 16	5 58.98	+21 3.0	1.586	2.507	9.9	19.7
1 26	5 51.26	+16 0.0	1.328	2.185	16.4	20.8	1 26	5 52.37	+21 19.0	1.674	2.525	13.8	20.0
<b>63267</b>	2001 CC <sub>17</sub>		12 26.2	218°77	1°9/26.0	18	<b>451542</b>	2011 WU <sub>90</sub>		12 26.2	110°65	2°0/25.9	18
11 17	6 53.91	+26 13.9	1.716	2.494	17.0	20.3	11 17	6 53.95	+26 33.1	2.241	3.001	14.0	21.5
11 27	6 49.43	+26 43.2	1.623	2.488	13.6	20.0	11 27	6 48.36	+27 22.6	2.168	3.022	11.1	21.4
12 7	6 41.66	+27 14.5	1.552	2.482	9.5	19.8	12 7	6 40.25	+28 13.1	2.119	3.044	7.7	21.2
12 17	6 31.16	+27 43.5	1.505	2.475	4.9	19.5	12 17	6 30.23	+29 0.4	2.097	3.064	4.1	21.0
12 27	6 19.09	+28 5.9	1.487	2.468	1.9	19.3	12 27	6 19.25	+29 40.8	2.105	3.084	2.0	20.9
1 6	6 6.98	+28 19.1	1.497	2.460	5.9	19.5	1 6	6 8.46	+30 11.7	2.144	3.104	4.8	21.1
1 16	5 56.37	+28 22.8	1.535	2.452	10.5	19.7	1 16	5 58.93	+30 32.8	2.213	3.123	8.2	21.4
1 26	5 48.52	+28 19.5	1.597	2.443	14.6	20.0	1 26	5 51.54	+30 45.6	2.309	3.141	11.2	21.6
<b>494677</b>	2003 SJ <sub>111</sub>		12 26.2	137°23	3°9/26.5	16	<b>443734</b>	2015 LH <sub>22</sub>		12 26.2	207°25	0°3/26.3	18
11 17	6 54.61	+13 31.0	1.859	2.613	16.7	22.7	11 17	6 52.99	+22 6.5	1.907	2.676	15.8	22.2
11 27	6 49.04	+13 6.6	1.783	2.629	13.4	22.5	11 27	6 48.19	+22 11.8	1.811	2.672	12.6	22.0
12 7	6 40.78	+12 50.2	1.728	2.645	9.7	22.3	12 7	6 40.52	+22 20.1	1.737	2.666	8.8	21.7
12 17	6 30.47	+12 42.8	1.699	2.659	5.9	22.1	12 17	6 30.52	+22 29.6	1.689	2.660	4.4	21.4
12 27	6 19.18	+12 44.8	1.699	2.672	3.9	22.0	12 27	6 19.22	+22 38.1	1.670	2.653	0.4	21.1
1 6	6 8.14	+12 55.6	1.729	2.684	6.2	22.2	1 6	6 7.92	+22 44.4	1.681	2.646	5.1	21.5
1 16	5 58.52	+13 14.1	1.787	2.696	9.8	22.5	1 16	5 57.92	+22 48.4	1.720	2.638	9.5	21.7
1 26	5 51.23	+13 38.7	1.870	2.706	13.3	22.7	1 26	5 50.29	+22 51.1	1.784	2.629	13.4	21.9
<b>299600</b>	2006 HM <sub>67</sub>		12 26.2	122°46	4°8/26.5	18	<b>287782</b>	2003 SP <sub>109</sub>		12 26.2	116°66	1°7/26.3	18
11 17	6 50.40	+10 44.2	2.164	2.910	14.9	21.4	11 17	6 56.21	+19 45.2	1.677	2.447	17.6	21.1
11 27	6 45.30	+10 1.3	2.089	2.926	12.1	21.3	11 27	6 50.62	+19 27.3	1.607	2.467	14.0	20.9
12 7	6 37.99	+9 26.5	2.036	2.942	9.0	21.1	12 7	6 42.00	+19 13.3	1.558	2.486	9.7	20.7
12 17	6 29.04	+9 1.7	2.009	2.958	6.1	20.9	12 17	6 31.12	+19 2.5	1.535	2.504	5.0	20.4
12 27	6 19.32	+8 48.3	2.011	2.973	4.8	20.9	12 27	6 19.20	+18 54.2	1.540	2.521	1.8	20.3
1 6	6 9.84	+8 46.6	2.042	2.987	6.3	21.0	1 6	6 7.69	+18 48.2	1.574	2.538	5.6	20.6
1 16	6 1.50	+8 55.9	2.102	3.001	9.1	21.2	1 16	5 57.86	+18 44.8	1.637	2.554	10.0	20.9
1 26	5 55.06	+9 14.4	2.188	3.014	12.0	21.4	1 26	5 50.69	+18 44.7	1.724	2.569	13.8	21.1
<b>330501</b>	2007 LE <sub>13</sub>		12 26.2	232°00	4°7/26.9	18	<b>362447</b>	2010 RR <sub>106</sub>		12 26.2	176°99	4°1/25.9	17
11 17	6 45.43	+8 30.8	2.428	3.171	13.5	21.7	11 17	6 52.27	+33 38.9	2.162	2.926	14.4	21.4
11 27	6 41.41	+8 12.1	2.331	3.165	11.1	21.5	11 27	6 47.52	+34 17.3	2.075	2.926	11.6	21.2
12 7	6 35.40	+8 2.9	2.257	3.160	8.5	21.3	12 7	6 39.98	+34 51.9	2.009	2.927	8.5	21.0
12 17	6 27.83	+8 4.8	2.208	3.154	5.9	21.2	12 17	6 30.21	+35 17.8	1.970	2.927	5.4	20.8
12 27	6 19.42	+8 18.7	2.188	3.148	4.7	21.1	12 27	6 19.27	+35 31.1	1.959	2.928	4.1	20.8
1 6	6 11.01	+8 43.9	2.197	3.142	6.0	21.2	1 6	6 8.42	+35 29.9	1.978	2.928	6.0	20.9
1 16	6 3.44	+9 18.9	2.235	3.136	8.6	21.3	1 16	5 58.90	+35 15.3	2.024	2.927	9.2	21.1
1 26	5 57.45	+10 1.7	2.299	3.129	11.3	21.5	1 26	5 51.73	+34 50.5	2.097	2.927	12.3	21.3
<b>387150</b>	2012 TA <sub>232</sub>		12 26.2	355°16	1°8/26.5	18	<b>17369</b>	Eremeeva		12 26.2	23°89	0°5/26.2	18
11 17	6 48.77	+17 22.3	1.486	2.277	18.6	20.3	11 17	6 47.86	+24 21.8	1.888	2.670	15.5	18.3
11 27	6 45.52	+17 38.2	1.405	2.276	14.9	20.1	11 27	6 44.08	+24 28.2	1.806	2.673	12.3	18.1
12 7	6 39.03	+18 3.9	1.342	2.275	10.4	19.8	12 7	6 37.60	+24 35.8	1.745	2.677	8.5	17.8
12 17	6 29.88	+18 38.4	1.304	2.274	5.5	19.5	12 17	6 29.04	+24 42.5	1.710	2.681	4.2	17.6
12 27	6 19.24	+19 18.8	1.292	2.274	1.8	19.3	12 27	6 19.40	+24 46.5	1.703	2.686	0.6	17.3
1 6	6 8.64	+20 2.1	1.307	2.274	6.0	19.5	1 6	6 9.92	+24 46.6	1.724	2.691	4.9	17.6
1 16	5 59.57	+20 45.3	1.348	2.274	10.9	19.8	1 16	6 1.75	+24 43.4	1.774	2.696	9.0	17.9
1 26	5 53.25	+21 27.0	1.413	2.274	15.3	20.1	1 26	5 55.86	+24 38.0	1.848	2.701	12.6	18.1
<b>475346</b>	2006 BM <sub>110</sub>		12 26.2	29°58	1°2/26.1	18	<b>138449</b>	2000 JF <sub>8</sub>		12 26.2	150°37	0°3/26.3	18
11 17	6 49.14	+24 20.4	1.254	2.064	20.3	20.8							

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12 26.2

12 26.3

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>56817</b>	2000 <i>QF</i> <sub>1</sub>		12 26.2 211°83		9°0/25.8 18		<b>320238</b>	2007 <i>JD</i> <sub>28</sub>		12 26.3 181°76		1°4/26.4 18	
11 17	7 6.39	+49 29.2	2.312	3.017	15.1	19.8	11 17	6 46.68	+18 6.5	2.972	3.722	11.1	22.2
11 27	6 59.51	+50 29.2	2.219	3.008	13.2	19.6	11 27	6 42.01	+18 0.4	2.875	3.723	8.8	22.0
12 7	6 48.71	+51 16.8	2.147	2.999	11.2	19.4	12 7	6 35.63	+17 57.5	2.802	3.723	6.2	21.9
12 17	6 34.70	+51 43.2	2.099	2.990	9.6	19.3	12 17	6 27.94	+17 57.5	2.757	3.723	3.3	21.7
12 27	6 18.93	+51 41.1	2.077	2.979	9.0	19.3	12 27	6 19.57	+18 0.1	2.742	3.723	1.4	21.5
1 6	6 3.35	+51 8.0	2.083	2.968	9.9	19.3	1 6	6 11.25	+18 4.7	2.760	3.721	3.7	21.7
1 16	5 49.81	+50 7.3	2.115	2.955	11.7	19.4	1 16	6 3.69	+18 11.2	2.807	3.720	6.5	21.9
1 26	5 39.68	+48 46.4	2.171	2.942	13.9	19.5	1 26	5 57.50	+18 19.4	2.883	3.718	9.1	22.1
<b>124965</b>	2001 <i>TF</i> <sub>104</sub>		12 26.2 50°65		4°0/25.8 18 R		<b>213443</b>	2002 <i>AD</i> <sub>24</sub>		12 26.3 344°37		3°3/26.6 18	
11 17	6 52.79	+29 32.6	1.456	2.249	18.8	19.3	11 17	6 48.98	+16 14.7	1.238	2.042	20.9	19.7
11 27	6 49.06	+30 28.1	1.387	2.258	15.0	19.1	11 27	6 46.31	+16 3.0	1.161	2.039	16.9	19.5
12 7	6 41.63	+31 23.5	1.337	2.267	10.7	18.9	12 7	6 39.95	+16 1.6	1.102	2.036	12.1	19.2
12 17	6 31.22	+32 12.4	1.311	2.277	6.2	18.7	12 17	6 30.52	+16 11.2	1.064	2.033	6.7	18.9
12 27	6 19.24	+32 48.0	1.311	2.286	4.1	18.6	12 27	6 19.36	+16 30.9	1.051	2.031	3.3	18.7
1 6	6 7.50	+33 6.9	1.338	2.296	7.2	18.8	1 6	6 8.26	+16 58.8	1.064	2.029	7.2	18.9
1 16	5 57.69	+33 9.7	1.391	2.307	11.5	19.0	1 16	5 58.97	+17 32.5	1.100	2.028	12.6	19.2
1 26	5 51.09	+33 0.5	1.467	2.317	15.5	19.3	1 26	5 52.87	+18 9.8	1.159	2.027	17.4	19.5
<b>484332</b>	2007 <i>TK</i> <sub>426</sub>		12 26.2 1°39		0°7/26.3 17		<b>207256</b>	2005 <i>EL</i> <sub>247</sub>		12 26.3 83°71		1°1/26.2 18	
11 17	6 46.71	+20 55.9	1.449	2.250	18.5	21.5	11 17	6 51.74	+25 20.1	1.810	2.588	16.2	20.9
11 27	6 44.00	+21 1.2	1.371	2.249	14.7	21.3	11 27	6 47.18	+25 34.5	1.737	2.602	12.8	20.7
12 7	6 38.03	+21 11.8	1.312	2.248	10.2	21.0	12 7	6 39.74	+25 49.8	1.685	2.616	8.8	20.5
12 17	6 29.43	+21 26.2	1.276	2.248	5.1	20.7	12 17	6 30.11	+26 2.9	1.659	2.630	4.4	20.3
12 27	6 19.40	+21 42.4	1.266	2.249	0.8	20.4	12 27	6 19.41	+26 11.3	1.661	2.643	1.1	20.1
1 6	6 9.48	+21 58.4	1.283	2.251	5.8	20.8	1 6	6 8.97	+26 13.7	1.692	2.657	5.1	20.4
1 16	6 1.17	+22 13.3	1.325	2.253	10.8	21.1	1 16	6 0.05	+26 10.7	1.751	2.670	9.3	20.7
1 26	5 55.65	+22 27.2	1.391	2.256	15.2	21.3	1 26	5 53.60	+26 4.1	1.835	2.684	12.9	20.9
<b>105116</b>	2000 <i>LN</i> <sub>22</sub>		12 26.2 30°03		1°5/26.6 18		<b>484962</b>	2009 <i>TJ</i> <sub>7</sub>		12 26.3 76°51		4°9/25.9 17	
11 17	6 45.92	+16 54.3	2.197	2.966	14.0	20.0	11 17	6 51.97	+36 15.7	2.179	2.940	14.3	20.6
11 27	6 42.09	+17 15.9	2.111	2.970	11.2	19.8	11 27	6 47.27	+36 59.4	2.103	2.950	11.7	20.5
12 7	6 36.03	+17 44.6	2.048	2.974	7.8	19.6	12 7	6 39.78	+37 37.2	2.048	2.959	8.7	20.3
12 17	6 28.23	+18 19.3	2.011	2.979	4.1	19.4	12 17	6 30.14	+38 4.3	2.019	2.969	6.0	20.2
12 27	6 19.50	+18 58.3	2.002	2.984	1.5	19.2	12 27	6 19.41	+38 16.3	2.018	2.979	4.9	20.1
1 6	6 10.83	+19 39.3	2.024	2.989	4.4	19.4	1 6	6 8.88	+38 12.0	2.046	2.989	6.5	20.2
1 16	6 3.16	+20 20.4	2.075	2.994	8.0	19.6	1 16	5 59.76	+37 52.6	2.102	2.998	9.3	20.4
1 26	5 57.32	+21 0.3	2.152	3.000	11.3	19.8	1 26	5 53.02	+37 22.1	2.183	3.008	12.0	20.6
<b>492922</b>	2014 <i>RC</i> <sub>22</sub>		12 26.2 93°65		2°4/25.9 17		<b>334254</b>	2001 <i>TK</i> <sub>218</sub>		12 26.3 89°83		1°0/26.1 18	
11 17	6 49.99	+28 45.1	2.168	2.938	14.1	21.3	11 17	6 55.25	+23 51.8	1.663	2.440	17.5	20.7
11 27	6 45.50	+29 17.1	2.087	2.946	11.2	21.1	11 27	6 50.09	+24 23.7	1.599	2.463	13.8	20.5
12 7	6 38.45	+29 48.1	2.028	2.954	7.9	20.9	12 7	6 41.79	+24 58.6	1.556	2.486	9.5	20.3
12 17	6 29.44	+30 14.6	1.996	2.963	4.3	20.7	12 17	6 31.12	+25 32.6	1.538	2.508	4.7	20.0
12 27	6 19.41	+30 33.5	1.993	2.971	2.4	20.6	12 27	6 19.34	+26 1.7	1.548	2.531	1.1	19.8
1 6	6 9.52	+30 43.1	2.019	2.979	5.0	20.8	1 6	6 7.92	+26 23.5	1.587	2.552	5.4	20.2
1 16	6 0.87	+30 43.6	2.074	2.987	8.5	21.0	1 16	5 58.24	+26 37.9	1.655	2.574	9.8	20.5
1 26	5 54.35	+30 37.1	2.155	2.995	11.6	21.3	1 26	5 51.29	+26 46.5	1.747	2.594	13.5	20.8
<b>71267</b>	2000 <i>AL</i> <sub>29</sub>		12 26.2 1°35		1°0/26.2 17		<b>495672</b>	2016 <i>AT</i> <sub>157</sub>		12 26.3 281°09		9°7/27.9 18	
11 17	6 46.52	+25 16.6	1.823	2.611	15.7	18.7	11 17	6 44.36	- 7 8.4	2.429	3.109	15.0	21.6
11 27	6 43.22	+25 28.9	1.739	2.610	12.5	18.5	11 27	6 40.67	- 7 56.2	2.333	3.095	13.4	21.5
12 7	6 37.15	+25 42.1	1.676	2.609	8.6	18.3	12 7	6 34.99	- 8 26.9	2.256	3.080	11.7	21.3
12 17	6 28.88	+25 53.9	1.638	2.610	4.3	18.0	12 17	6 27.75	- 8 36.0	2.201	3.066	10.4	21.2
12 27	6 19.45	+26 1.8	1.628	2.610	1.1	17.8	12 27	6 19.62	- 8 20.2	2.171	3.052	9.7	21.1
1 6	6 10.14	+26 4.6	1.646	2.612	5.1	18.1	1 6	6 11.43	- 7 39.1	2.167	3.038	10.2	21.1
1 16	6 2.16	+26 2.5	1.691	2.614	9.3	18.3	1 16	6 4.03	- 6 34.7	2.188	3.023	11.6	21.2
1 26	5 56.50	+25 57.0	1.761	2.616	13.0	18.6	1 26	5 58.16	- 5 11.2	2.232	3.009	13.4	21.3
<b>200454</b>	2000 <i>WQ</i> <sub>60</sub>		12 26.2 44°98		2°6/26.5 18		<b>220550</b>	2004 <i>GP</i> <sub>14</sub>		12 26.3 206°10		4°0/25.7 18	
11 17	6 50.79	+17 40.3	1.303	2.101	20.3	19.0	11 17	6 53.53	+35 51.3	2.839	3.580	11.8	22.0
11 27	6 46.98	+17 25.6	1.251	2.126	16.1	18.8	11 27	6 47.96	+36 31.5	2.737	3.574	9.6	21.8
12 7	6 39.80	+17 19.0	1.218	2.151	11.2	18.6	12 7	6 40.04	+37 7.5	2.659	3.566	7.2	21.6
12 17	6 30.12	+17 20.1	1.208	2.177	6.0	18.4	12 17	6 30.25	+37 35.1	2.609	3.558	4.9	21.5
12 27	6 19.37	+17 28.0	1.223	2.204	2.6	18.2	12 27	6 19.42	+37 50.8	2.589	3.549	4.0	21.4
1 6	6 9.19	+17 41.2	1.265	2.231	6.4	18.5	1 6	6 8.57	+37 53.0	2.599	3.540	5.4	21.5
1 16	6 0.99	+17 58.6	1.333	2.258	11.0	18.9	1 16	5 58.71	+37 42.2	2.639	3.529	7.9	21.6
1 26	5 55.73	+18 18.9	1.423	2.286	15.1	19.2	1 26	5 50.71	+37 21.0	2.707	3.518	10.4	21.8
<b>197047</b>	2003 <i>UN</i> <sub>140</sub>		12 26.2 33°45		1°5/26.5 18		<b>293103</b>	2006 <i>XS</i> <sub>17</sub>		12 26.3 48°61		2°3/26.2 17	
11 17	6 48.42	+18 16.1	1.517	2.308	18.2	20.0	11 17	6 50.76	+29 50.3	2.009	2.782	15.0	20.9
11 27	6 45.06	+18 29.4	1.443	2.315	14.5	19.7	11 27	6 46.35	+29 57.5	1.922	2.783	12.0	20.7
12 7	6 38.58	+18 50.9	1.390	2.323	10.1	19.5	12 7	6 39.17	+30 1.5	1.858	2.785	8.4	20.4
12 17	6 29.63	+19 19.2	1.360	2.331	5.2	19.2	12 17	6 29.86	+29 59.2	1.819	2.786	4.6	20.2
12 27	6 19.40	+19 51.9	1.357	2.340	1.5	19.0	12 27	6 19.46	+29 48.2	1.808	2.788	2.3	20.1
1 6	6 9.35	+20 26.2	1.382	2.349	5.7	19.3	1 6	6 9.24	+29 28.1	1.827	2.789	5.2	20.3
1 16	6 0.87	+21 0.0	1.433	2.358	10.4	19.6	1 16	6 0.40	+29 0.5	1.874	2.790	9.0	20.5
1 26	5 55.05	+21 32.4	1.508	2.368	14.5	19.9	1 26	5 53.88	+28 28.5	1.947	2.792	12.4	20.7
<b>416156</b>	2002 <i>RU</i> <sub>131</sub>		12 26.3 91°78		2°6/26.3 18		<b>78318</b>	2002 <i>PX</i> <sub>73</sub>		12 26.3 50°94			

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12 26.3

12 26.3

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>517250</b>	2014 <i>DU</i> <sub>50</sub>		12 26.3 270°54	2°9/26.6	18		<b>517415</b>	2014 <i>MR</i> <sub>1</sub>		12 26.3 140°85	2°6/26.3	18	
11 17	6 49.15	+15 26.9	1.695	2.472	17.2	22.1	11 17	6 50.63	+16 13.7	2.489	3.237	13.1	22.2
11 27	6 45.51	+15 23.1	1.600	2.462	13.9	21.9	11 27	6 45.30	+15 41.0	2.405	3.250	10.5	22.0
12 7	6 38.92	+15 28.2	1.526	2.452	10.0	21.6	12 7	6 37.95	+15 12.1	2.345	3.263	7.4	21.9
12 17	6 29.91	+15 42.6	1.476	2.442	5.7	21.3	12 17	6 29.12	+14 47.6	2.313	3.274	4.3	21.7
12 27	6 19.47	+16 5.4	1.453	2.432	2.9	21.1	12 27	6 19.59	+14 28.2	2.311	3.286	2.7	21.6
1 6	6 8.94	+16 34.9	1.459	2.422	6.0	21.3	1 6	6 10.24	+14 14.3	2.339	3.296	4.7	21.7
1 16	5 59.69	+17 9.4	1.491	2.412	10.5	21.5	1 16	6 1.91	+14 6.2	2.398	3.306	7.7	21.9
1 26	5 52.85	+17 46.9	1.548	2.401	14.6	21.8	1 26	5 55.29	+14 3.7	2.484	3.315	10.6	22.1
<b>191161</b>	2002 <i>JY</i> <sub>86</sub>		12 26.3 225°49	0°3/26.2	18		<b>358575</b>	2007 <i>TJ</i> <sub>423</sub>		12 26.3 349°39	2°0/26.4	17	
11 17	6 48.10	+23 54.6	2.403	3.169	13.0	21.1	11 17	6 45.52	+19 25.6	1.406	2.210	18.8	21.0
11 27	6 43.74	+23 59.3	2.305	3.164	10.3	20.9	11 27	6 43.19	+19 8.6	1.324	2.203	15.1	20.8
12 7	6 37.16	+24 4.9	2.230	3.159	7.1	20.7	12 7	6 37.58	+18 56.7	1.261	2.197	10.6	20.5
12 17	6 28.83	+24 10.0	2.183	3.153	3.5	20.4	12 17	6 29.31	+18 50.0	1.221	2.192	5.6	20.2
12 27	6 19.56	+24 13.0	2.165	3.148	0.4	20.2	12 27	6 19.56	+18 48.2	1.206	2.188	2.1	20.0
1 6	6 10.33	+24 13.2	2.177	3.142	4.1	20.4	1 6	6 9.89	+18 50.6	1.218	2.185	6.2	20.2
1 16	6 2.09	+24 10.8	2.219	3.137	7.7	20.7	1 16	6 1.79	+18 56.9	1.255	2.183	11.3	20.5
1 26	5 55.64	+24 6.5	2.287	3.131	10.9	20.9	1 26	5 56.49	+19 7.0	1.314	2.182	15.8	20.7
<b>199384</b>	2006 <i>BC</i> <sub>248</sub>		12 26.3 57°19	3°0/26.7	18		<b>420236</b>	2011 <i>HA</i> <sub>63</sub>		12 26.3 323°68	10°0/27.5	18	
11 17	6 49.81	+15 29.2	1.506	2.291	18.6	20.6	11 17	6 43.36	- 6 22.4	2.339	3.028	15.3	20.2
11 27	6 46.04	+15 27.2	1.437	2.303	14.9	20.4	11 27	6 39.91	- 7 26.8	2.255	3.023	13.6	20.1
12 7	6 39.19	+15 35.0	1.387	2.316	10.6	20.2	12 7	6 34.47	- 8 14.6	2.190	3.017	11.9	19.9
12 17	6 29.93	+15 52.6	1.362	2.328	5.9	20.0	12 17	6 27.51	- 8 41.0	2.147	3.012	10.6	19.8
12 27	6 19.48	+16 18.4	1.362	2.341	3.0	19.8	12 27	6 19.72	- 8 42.5	2.128	3.008	10.0	19.8
1 6	6 9.28	+16 50.5	1.390	2.354	6.1	20.1	1 6	6 11.95	- 8 18.3	2.135	3.003	10.5	19.8
1 16	6 0.69	+17 26.3	1.445	2.368	10.6	20.3	1 16	6 5.03	- 7 30.2	2.166	2.999	11.8	19.9
1 26	5 54.75	+18 4.1	1.524	2.381	14.6	20.6	1 26	5 59.69	- 6 22.5	2.220	2.994	13.6	20.0
<b>483480</b>	2002 <i>PF</i> <sub>191</sub>		12 26.3 133°28	6°7/28.4	17		<b>160362</b>	2003 <i>YP</i> <sub>90</sub>		12 26.3 94°59	1°9/25.7	18	
11 17	6 46.67	- 0 56.0	2.537	3.238	14.0	21.5	11 17	6 52.34	+25 9.8	2.485	3.241	12.9	19.8
11 27	6 42.23	- 0 59.0	2.449	3.243	11.9	21.3	11 27	6 47.00	+26 21.5	2.407	3.259	10.2	19.6
12 7	6 35.91	- 0 46.3	2.383	3.247	9.7	21.2	12 7	6 39.37	+27 36.1	2.353	3.277	7.0	19.5
12 17	6 28.14	- 0 15.9	2.341	3.252	7.7	21.1	12 17	6 29.93	+28 49.4	2.328	3.295	3.7	19.3
12 27	6 19.63	+ 0 32.9	2.327	3.256	6.7	21.0	12 27	6 19.53	+29 56.7	2.334	3.313	2.0	19.2
1 6	6 11.17	+ 1 38.4	2.342	3.260	7.3	21.0	1 6	6 9.17	+30 54.9	2.373	3.330	4.5	19.4
1 16	6 3.54	+ 2 57.5	2.386	3.264	9.1	21.2	1 16	6 59.83	+31 42.3	2.441	3.348	7.7	19.6
1 26	5 57.43	+ 4 25.8	2.457	3.268	11.3	21.3	1 26	5 52.36	+32 19.3	2.538	3.365	10.5	19.8
<b>492171</b>	2013 <i>PU</i> <sub>56</sub>		12 26.3 96°84	6°2/27.2	17		<b>146278</b>	2001 <i>FG</i> <sub>63</sub>		12 26.3 201°64	2°7/26.6	18	
11 17	6 45.05	+ 3 31.9	2.449	3.175	13.8	21.7	11 17	6 52.11	+15 41.3	1.834	2.599	16.5	20.7
11 27	6 40.98	+ 2 56.7	2.370	3.185	11.6	21.6	11 27	6 47.55	+15 38.7	1.741	2.596	13.3	20.4
12 7	6 35.04	+ 2 33.4	2.312	3.194	9.3	21.5	12 7	6 40.15	+15 44.0	1.669	2.592	9.5	20.2
12 17	6 27.70	+ 2 24.4	2.280	3.204	7.2	21.3	12 17	6 30.46	+15 57.2	1.622	2.588	5.3	20.0
12 27	6 19.67	+ 2 31.2	2.275	3.213	6.2	21.3	12 27	6 19.48	+16 17.5	1.604	2.583	2.7	19.8
1 6	6 11.75	+ 2 53.5	2.299	3.223	7.1	21.4	1 6	6 8.49	+16 43.2	1.615	2.577	5.7	20.0
1 16	6 4.71	+ 3 29.5	2.350	3.232	9.1	21.5	1 16	5 58.75	+17 12.8	1.655	2.571	9.9	20.2
1 26	5 59.22	+ 4 16.3	2.427	3.241	11.3	21.7	1 26	5 51.33	+17 45.0	1.719	2.565	13.8	20.4
<b>334232</b>	2001 <i>TH</i> <sub>70</sub>		12 26.3 53°21	2°5/26.1	18		<b>132678</b>	2002 <i>NW</i> <sub>15</sub>		12 26.3 214°65	2°6/26.2	18	
11 17	6 53.86	+27 45.8	1.337	2.135	19.9	20.6	11 17	6 54.75	+31 35.9	2.455	3.206	13.2	21.0
11 27	6 49.80	+28 10.0	1.279	2.155	15.8	20.4	11 27	6 49.10	+31 45.3	2.350	3.197	10.6	20.8
12 7	6 42.00	+28 33.4	1.241	2.175	10.9	20.1	12 7	6 40.92	+31 50.8	2.268	3.187	7.6	20.6
12 17	6 31.34	+28 51.0	1.226	2.196	5.8	19.9	12 17	6 30.74	+31 49.0	2.213	3.177	4.4	20.4
12 27	6 19.38	+28 58.5	1.237	2.217	2.5	19.8	12 27	6 19.47	+31 37.4	2.189	3.165	2.6	20.3
1 6	6 7.98	+28 54.7	1.274	2.239	6.5	20.1	1 6	6 8.24	+31 15.3	2.196	3.153	4.9	20.4
1 16	5 58.74	+28 41.4	1.337	2.260	11.2	20.4	1 16	5 58.16	+30 44.2	2.233	3.140	8.2	20.6
1 26	5 52.79	+28 22.5	1.423	2.282	15.3	20.7	1 26	5 50.16	+30 7.2	2.296	3.127	11.3	20.8
<b>5957</b>	<i>Irina</i>		12 26.3 205°25	7°0/27.8	18		<b>369668</b>	2011 <i>HU</i> <sub>102</sub>		12 26.3 10°43	13°5/29.3	17	
11 17	6 44.23	- 2 19.5	2.875	3.567	12.7	18.3	11 17	6 42.47	-11 58.2	1.879	2.560	18.8	19.8
11 27	6 40.14	- 2 45.9	2.782	3.564	11.0	18.2	11 27	6 39.66	-13 18.5	1.814	2.563	17.2	19.6
12 7	6 34.39	- 2 59.1	2.710	3.560	9.2	18.0	12 7	6 34.51	-14 14.6	1.766	2.567	15.5	19.5
12 17	6 27.38	- 2 56.2	2.663	3.557	7.7	17.9	12 17	6 27.57	-14 39.9	1.737	2.571	14.2	19.5
12 27	6 19.70	- 2 36.0	2.643	3.553	7.0	17.9	12 27	6 19.72	-14 29.8	1.729	2.577	13.5	19.4
1 6	6 12.03	- 1 58.5	2.651	3.549	7.5	17.9	1 6	6 11.99	-13 43.9	1.742	2.584	13.8	19.5
1 16	6 5.05	- 1 5.8	2.687	3.545	8.9	18.0	1 16	6 5.37	-12 26.0	1.777	2.591	14.8	19.5
1 26	5 59.37	- 0 0.8	2.748	3.540	10.8	18.1	1 26	6 0.68	-10 42.7	1.833	2.599	16.3	19.7
<b>269335</b>	2008 <i>TD</i> <sub>19</sub>		12 26.3 169°92	0°0/26.3	18		<b>194655</b>	2001 <i>XG</i> <sub>180</sub>		12 26.3 286°43	2°3/26.5	18	
11 17	6 47.05	+22 52.7	2.847	3.604	11.4	21.8	11 17	6 48.90	+17 29.5	1.647	2.430	17.3	20.0
11 27	6 42.46	+22 56.9	2.753	3.607	9.0	21.6	11 27	6 45.45	+17 23.0	1.553	2.420	14.0	19.8
12 7	6 36.02	+23 2.2	2.683	3.609	6.2	21.4	12 7	6 38.96	+17 23.4	1.480	2.409	9.9	19.5
12 17	6 28.19	+23 7.5	2.641	3.611	3.1	21.2	12 17	6 29.97	+17 30.8	1.430	2.399	5.4	19.2
12 27	6 19.64	+23 11.8	2.630	3.613	0.2	21.0	12 27	6 19.53	+17 44.2	1.408	2.388	2.3	19.0
1 6	6 11.15	+23 14.5	2.650	3.614	3.5	21.2	1 6	6 9.01	+18 2.4	1.413	2.378	5.9	19.2
1 16	6 3.50	+23 15.5	2.700	3.616	6.6	21.4	1 16	5 59.82	+18 24.2	1.445	2.367	10.6	19.4
1 26	5 57.34	+23 15.4	2.778	3.616	9.3	21.6	1 26	5 53.13	+18 48.7	1.501	2.357	14.8	19.7
<b>85200</b>	<i>Johnhault</i>		12 26.3 19°69	3°7/25.9	18		<b>112355</b>	2002 <i>NU</i> <sub>14</sub>		12 26.3 166°43	3°		



EPHEMERIDES

12 26.3

12 26.3

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>304074</b>	2006 <i>GR</i> <sub>24</sub>		12 26.3 179°67	4.8/25.7	18		<b>17570</b>	1994 <i>NQ</i>		12 26.3 77°26	2.7/27.2	18	
11 17	6 55.74	+35 18.1	2.234	2.987	14.3	22.5	11 17	6 58.68	+10 33.2	1.548	2.302	19.5	17.8
11 27	6 50.35	+36 11.3	2.145	2.988	11.6	22.3	11 27	6 52.78	+11 41.5	1.487	2.334	15.6	17.7
12 7	6 42.04	+37 0.4	2.079	2.989	8.7	22.2	12 7	6 43.69	+13 7.8	1.447	2.365	11.1	17.5
12 17	6 31.39	+37 39.9	2.039	2.989	5.9	22.0	12 17	6 32.14	+14 48.4	1.432	2.396	6.2	17.3
12 27	6 19.44	+38 4.6	2.028	2.989	4.8	21.9	12 27	6 19.42	+16 37.1	1.447	2.426	2.7	17.1
1 6	6 7.52	+38 12.1	2.047	2.988	6.6	22.0	1 6	6 7.07	+18 26.3	1.493	2.456	5.9	17.4
1 16	5 56.96	+38 3.3	2.094	2.987	9.5	22.2	1 16	5 56.49	+20 9.7	1.568	2.486	10.3	17.7
1 26	5 48.81	+37 41.8	2.167	2.985	12.4	22.4	1 26	5 48.73	+21 43.7	1.669	2.514	14.1	18.0
<b>107728</b>	2001 <i>FG</i> <sub>27</sub>		12 26.3 223°04	0°5/26.3	18		<b>515959</b>	2015 <i>RK</i> <sub>85</sub>		12 26.3 169°06	1°4/26.3	18	
11 17	6 51.14	+24 58.9	1.971	2.744	15.2	20.3	11 17	6 51.36	+20 54.7	1.947	2.717	15.5	21.4
11 27	6 46.69	+24 57.0	1.877	2.740	12.1	20.1	11 27	6 46.70	+20 31.1	1.859	2.720	12.3	21.2
12 7	6 39.48	+24 55.0	1.806	2.735	8.4	19.8	12 7	6 39.38	+20 9.3	1.793	2.721	8.6	20.9
12 17	6 30.10	+24 51.1	1.760	2.731	4.2	19.6	12 17	6 30.01	+19 48.9	1.753	2.723	4.4	20.7
12 27	6 19.55	+24 43.6	1.743	2.726	0.6	19.3	12 27	6 19.59	+19 29.7	1.742	2.724	1.4	20.5
1 6	6 9.07	+24 31.9	1.755	2.721	4.9	19.6	1 6	6 9.32	+19 12.3	1.760	2.725	5.0	20.7
1 16	5 59.87	+24 16.9	1.796	2.715	9.1	19.8	1 16	6 0.35	+18 57.3	1.807	2.725	9.1	21.0
1 26	5 52.95	+24 0.5	1.862	2.710	12.8	20.1	1 26	5 53.60	+18 45.9	1.880	2.726	12.8	21.2
<b>418427</b>	2008 <i>OM</i> <sub>7</sub>		12 26.3 97°25	4.4/26.6	17		<b>96252</b>	1994 <i>WB</i> <sub>6</sub>		12 26.3 117°65	2°0/26.1	18	
11 17	6 56.33	+38 57.9	2.515	3.255	13.2	20.9	11 17	6 56.90	+25 49.5	1.530	2.311	18.6	19.4
11 27	6 50.06	+39 6.6	2.443	3.275	10.7	20.8	11 27	6 51.95	+26 26.6	1.459	2.325	14.8	19.2
12 7	6 41.30	+39 6.4	2.393	3.296	8.1	20.7	12 7	6 43.47	+27 5.9	1.408	2.338	10.2	18.9
12 17	6 30.77	+38 53.7	2.370	3.316	5.6	20.5	12 17	6 32.16	+27 42.5	1.381	2.351	5.3	18.7
12 27	6 19.51	+38 26.1	2.376	3.335	4.4	20.5	12 27	6 19.43	+28 11.2	1.382	2.364	2.1	18.5
1 6	6 8.70	+37 44.1	2.413	3.355	5.7	20.6	1 6	6 6.97	+28 29.2	1.412	2.376	6.1	18.8
1 16	5 59.35	+36 50.7	2.479	3.374	8.1	20.8	1 16	5 56.41	+28 36.8	1.469	2.387	10.8	19.1
1 26	5 52.24	+35 50.2	2.572	3.392	10.6	21.0	1 26	5 48.92	+28 36.6	1.549	2.398	14.9	19.4
<b>23008</b>	Rebecca Johns		12 26.3 108°25	1°0/26.4	18		<b>514152</b>	2015 <i>KQ</i> <sub>94</sub>		12 26.3 174°09	2°7/26.5	18	
11 17	6 47.66	+20 1.8	2.267	3.034	13.7	19.5	11 17	6 52.41	+15 37.0	2.122	2.876	14.9	23.2
11 27	6 43.39	+20 1.3	2.182	3.040	10.8	19.3	11 27	6 47.26	+15 23.1	2.031	2.879	12.0	23.0
12 7	6 36.90	+20 4.2	2.119	3.046	7.5	19.1	12 7	6 39.64	+15 15.3	1.963	2.882	8.5	22.7
12 17	6 28.71	+20 9.7	2.082	3.052	3.8	18.9	12 17	6 30.12	+15 13.7	1.921	2.885	4.9	22.5
12 27	6 19.66	+20 16.8	2.075	3.058	1.0	18.7	12 27	6 19.59	+15 18.2	1.909	2.886	2.7	22.4
1 6	6 10.73	+20 24.7	2.098	3.063	4.3	18.9	1 6	6 9.15	+15 28.1	1.927	2.886	5.2	22.6
1 16	6 2.84	+20 33.0	2.151	3.069	7.9	19.2	1 16	5 59.84	+15 42.8	1.974	2.886	8.9	22.8
1 26	5 56.79	+20 41.8	2.229	3.074	11.1	19.4	1 26	5 52.55	+16 1.4	2.048	2.885	12.2	23.0
<b>74869</b>	1999 <i>TN</i> <sub>94</sub>		12 26.3 347°08	2°3/25.9	18		<b>15287</b>	1991 <i>RX</i> <sub>25</sub>		12 26.3 85°24	0°3/26.3	18	
11 17	6 50.57	+26 47.2	1.668	2.455	17.0	18.8	11 17	6 57.23	+21 44.8	1.357	2.145	20.2	17.8
11 27	6 46.89	+27 24.5	1.584	2.454	13.6	18.5	11 27	6 52.27	+22 14.7	1.299	2.169	16.0	17.6
12 7	6 40.01	+28 3.7	1.521	2.452	9.5	18.3	12 7	6 43.65	+22 50.5	1.259	2.192	10.9	17.4
12 17	6 30.49	+28 40.3	1.482	2.451	5.1	18.0	12 17	6 32.20	+23 28.1	1.244	2.215	5.4	17.1
12 27	6 19.51	+29 9.8	1.470	2.450	2.4	17.8	12 27	6 19.44	+24 2.9	1.255	2.238	0.5	16.8
1 6	6 8.58	+29 29.2	1.486	2.450	6.0	18.1	1 6	6 7.17	+24 31.8	1.294	2.261	6.0	17.3
1 16	5 59.16	+29 38.1	1.530	2.449	10.4	18.3	1 16	5 57.02	+24 53.8	1.360	2.283	11.1	17.6
1 26	5 52.45	+29 38.7	1.597	2.449	14.3	18.6	1 26	5 50.10	+25 10.4	1.449	2.304	15.3	18.0
<b>515583</b>	2014 <i>JV</i>		12 26.3 139°74	0°6/26.3	18		<b>177551</b>	2004 <i>FO</i> <sub>81</sub>		12 26.3 239°89	0°4/26.3	17	
11 17	6 52.01	+22 19.1	2.355	3.112	13.5	21.7	11 17	6 49.04	+20 44.5	2.097	2.867	14.5	20.6
11 27	6 46.61	+22 5.7	2.271	3.125	10.7	21.5	11 27	6 44.88	+21 1.0	2.000	2.861	11.6	20.4
12 7	6 38.98	+21 53.2	2.211	3.136	7.3	21.3	12 7	6 38.20	+21 22.1	1.925	2.854	8.0	20.2
12 17	6 29.68	+21 40.6	2.178	3.148	3.7	21.1	12 17	6 29.49	+21 46.1	1.876	2.847	4.0	19.9
12 27	6 19.60	+21 27.5	2.176	3.159	0.6	20.9	12 27	6 19.64	+22 11.0	1.857	2.840	0.5	19.6
1 6	6 9.72	+21 13.8	2.204	3.169	4.2	21.2	1 6	6 9.74	+22 34.9	1.867	2.833	4.6	19.9
1 16	6 0.98	+21 0.3	2.263	3.178	7.7	21.4	1 16	6 0.91	+22 56.6	1.906	2.825	8.6	20.1
1 26	5 54.15	+20 47.9	2.348	3.187	10.8	21.7	1 26	5 54.11	+23 16.2	1.971	2.818	12.2	20.4
<b>207187</b>	2005 <i>EE</i> <sub>21</sub>		12 26.3 267°45	1°3/26.4	18		<b>45728</b>	2000 <i>GC</i> <sub>86</sub>		12 26.3 236°59	8°2/26.8	18	
11 17	6 49.09	+19 9.6	1.885	2.661	15.7	21.2	11 17	6 44.55	- 7 23.1	3.183	3.840	12.1	20.2
11 27	6 45.24	+19 12.9	1.786	2.649	12.6	20.9	11 27	6 40.32	- 8 20.8	3.081	3.824	10.9	20.0
12 7	6 38.63	+19 21.7	1.708	2.637	8.9	20.7	12 7	6 34.52	- 9 6.0	3.000	3.808	9.6	19.9
12 17	6 29.76	+19 35.1	1.655	2.625	4.6	20.4	12 17	6 27.51	- 9 35.0	2.943	3.792	8.6	19.8
12 27	6 19.58	+19 51.7	1.630	2.613	1.3	20.1	12 27	6 19.81	- 9 45.2	2.912	3.775	8.2	19.8
1 6	6 9.31	+20 9.9	1.635	2.600	5.2	20.4	1 6	6 12.06	- 9 35.5	2.908	3.757	8.6	19.8
1 16	6 0.19	+20 28.8	1.667	2.588	9.6	20.6	1 16	6 4.88	- 9 6.8	2.930	3.739	9.7	19.8
1 26	5 53.30	+20 48.1	1.724	2.575	13.5	20.8	1 26	5 58.88	- 8 21.4	2.976	3.720	11.1	19.9
<b>164721</b>	1998 <i>QO</i> <sub>24</sub>		12 26.3 118°39	1°5/26.4	18		<b>446824</b>	2001 <i>FB</i> <sub>181</sub>		12 26.3 119°60	5°0/25.9	18	
11 17	6 51.57	+18 48.5	2.143	2.903	14.6	21.0	11 17	6 55.92	+36 0.4	2.041	2.799	15.3	21.9
11 27	6 46.43	+18 41.7	2.066	2.920	11.5	20.8	11 27	6 50.59	+36 45.4	1.965	2.811	12.4	21.8
12 7	6 38.94	+18 38.9	2.012	2.937	8.0	20.6	12 7	6 42.21	+37 24.6	1.912	2.823	9.2	21.6
12 17	6 29.69	+18 39.5	1.985	2.953	4.2	20.4	12 17	6 31.45	+37 52.2	1.884	2.835	6.3	21.4
12 27	6 19.60	+18 42.8	1.988	2.969	1.6	20.3	12 27	6 19.51	+38 3.4	1.884	2.846	5.0	21.4
1 6	6 9.75	+18 48.1	2.020	2.984	4.6	20.5	1 6	6 7.82	+37 56.7	1.913	2.857	6.8	21.5
1 16	6 1.11	+18 55.1	2.082	2.998	8.2	20.8	1 16	5 57.72	+37 34.0	1.970	2.867	9.7	21.7
1 26	5 54.49	+19 3.8	2.171	3.012	11.5	21.0	1 26	5 50.26	+36 59.8	2.052	2.877	12.7	21.9
<b>518939</b>	2010 <i>GM</i> <sub>126</sub>		12 26.3 206°40	3°5/26.4	18		<b>452762</b>	2006 <i>BV</i> <sub>283</sub>		12 26.3 336°69	0°7/26.3	17	
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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>375204</b>	2008 <i>EO</i> <sub>98</sub>		12 26.3 274°96	4.5/26.0	18		<b>175679</b>	1995 <i>GE</i> <sub>1</sub>		12 26.3 326°66	0.9/26.2	18	
11 17	6 54.36	+31 56.0	1.474	2.263	18.8	20.8	11 17	6 49.17	+24 15.3	1.862	2.643	15.7	20.5
11 27	6 50.74	+32 31.1	1.384	2.252	15.3	20.5	11 27	6 45.36	+24 36.7	1.773	2.640	12.5	20.3
12 7	6 43.19	+33 3.3	1.313	2.241	11.1	20.2	12 7	6 38.73	+25 0.7	1.706	2.638	8.7	20.1
12 17	6 32.29	+33 26.4	1.266	2.230	6.7	20.0	12 17	6 29.82	+25 24.5	1.664	2.635	4.3	19.8
12 27	6 19.43	+33 33.9	1.244	2.219	4.5	19.8	12 27	6 19.67	+25 45.1	1.651	2.633	1.0	19.5
1 6	6 6.52	+33 22.9	1.249	2.208	7.6	19.9	1 6	6 9.55	+26 0.7	1.666	2.631	5.1	19.8
1 16	5 55.49	+32 55.1	1.280	2.197	12.2	20.2	1 16	6 0.73	+26 10.5	1.708	2.629	9.4	20.1
1 26	5 47.85	+32 16.3	1.334	2.186	16.6	20.4	1 26	5 54.24	+26 15.9	1.776	2.628	13.1	20.3
<b>63659</b>	2001 <i>QM</i> <sub>116</sub>		12 26.3 63°36	1.9/26.4	18		<b>112994</b>	2002 <i>RP</i> <sub>34</sub>		12 26.3 105°11	6.6/27.7	18	
11 17	6 49.22	+19 18.5	1.843	2.620	16.0	19.7	11 17	6 45.20	+0 57.1	2.569	3.281	13.6	20.2
11 27	6 45.06	+18 55.2	1.766	2.629	12.7	19.5	11 27	6 41.03	+0 28.1	2.491	3.293	11.5	20.1
12 7	6 38.25	+18 35.5	1.710	2.639	8.9	19.3	12 7	6 35.07	+0 12.3	2.434	3.304	9.4	19.9
12 17	6 29.45	+18 19.3	1.680	2.649	4.7	19.0	12 17	6 27.78	+0 12.0	2.402	3.315	7.5	19.8
12 27	6 19.68	+18 6.7	1.678	2.659	2.0	18.9	12 27	6 19.84	+0 28.5	2.397	3.325	6.6	19.8
1 6	6 10.14	+17 57.9	1.705	2.669	5.2	19.1	1 6	6 12.00	+1 1.2	2.421	3.336	7.3	19.9
1 16	6 1.95	+17 52.9	1.760	2.679	9.2	19.4	1 16	6 5.00	+1 48.0	2.473	3.347	9.0	20.0
1 26	5 55.99	+17 52.1	1.839	2.690	12.8	19.6	1 26	5 59.47	+2 45.6	2.550	3.357	11.1	20.2
<b>378008</b>	2006 <i>SO</i> <sub>43</sub>		12 26.3 15°66	4.1/26.3	18		<b>446571</b>	2014 <i>OY</i> <sub>127</sub>		12 26.3 180°06	3.2/25.9	17	
11 17	6 49.43	+17 37.1	1.234	2.039	20.9	20.3	11 17	6 51.23	+30 48.0	2.032	2.803	14.9	22.0
11 27	6 46.52	+16 44.0	1.163	2.041	16.8	20.1	11 27	6 46.88	+31 21.4	1.945	2.803	11.9	21.8
12 7	6 39.97	+15 55.9	1.110	2.043	12.0	19.8	12 7	6 39.70	+31 52.7	1.879	2.803	8.5	21.6
12 17	6 30.53	+15 15.0	1.079	2.046	6.9	19.5	12 17	6 30.28	+32 17.6	1.840	2.803	5.0	21.4
12 27	6 19.59	+14 43.7	1.073	2.050	4.1	19.4	12 27	6 19.64	+32 32.3	1.828	2.803	3.2	21.3
1 6	6 8.94	+14 23.7	1.092	2.055	7.6	19.6	1 6	6 9.09	+32 35.0	1.846	2.803	5.7	21.4
1 16	6 0.20	+14 15.6	1.136	2.060	12.6	19.9	1 16	5 59.87	+32 26.3	1.892	2.803	9.2	21.6
1 26	5 54.59	+14 18.7	1.201	2.066	17.2	20.2	1 26	5 53.00	+32 9.0	1.963	2.803	12.6	21.8
<b>85054</b>	6841 <i>P-L</i>		12 26.3 14°58	3.7/26.1	18		<b>342053</b>	2008 <i>RO</i> <sub>144</sub>		12 26.3 166°99	3.2/26.2	18	
11 17	6 50.50	+29 15.6	1.215	2.026	20.8	19.4	11 17	6 55.24	+31 0.5	1.846	2.616	16.2	21.3
11 27	6 47.97	+29 49.1	1.146	2.028	16.7	19.1	11 27	6 50.27	+31 21.8	1.761	2.619	13.0	21.1
12 7	6 41.34	+30 21.5	1.095	2.032	11.8	18.9	12 7	6 42.14	+31 39.8	1.698	2.622	9.3	20.9
12 17	6 31.33	+30 46.7	1.066	2.036	6.6	18.6	12 17	6 31.51	+31 50.0	1.659	2.624	5.3	20.6
12 27	6 19.53	+30 59.0	1.062	2.041	3.7	18.4	12 27	6 19.56	+31 48.5	1.649	2.626	3.2	20.5
1 6	6 8.01	+30 55.8	1.082	2.046	7.5	18.7	1 6	6 7.80	+31 34.2	1.668	2.627	5.9	20.7
1 16	5 58.70	+30 38.9	1.127	2.053	12.6	19.0	1 16	5 57.63	+31 8.7	1.715	2.628	9.9	20.9
1 26	5 52.99	+30 13.2	1.193	2.060	17.1	19.3	1 26	5 50.16	+30 36.2	1.787	2.629	13.5	21.1
<b>15955</b>	Johannesgmunnen		12 26.3 303°91	0.5/26.3	18		<b>173682</b>	2001 <i>OX</i> <sub>61</sub>		12 26.3 104°63	2.3/26.2	18	
11 17	6 48.53	+22 16.7	1.954	2.731	15.2	17.8	11 17	6 52.86	+29 11.5	2.073	2.840	14.8	20.3
11 27	6 44.61	+22 8.9	1.862	2.727	12.1	17.6	11 27	6 47.82	+29 30.8	1.997	2.855	11.7	20.1
12 7	6 38.06	+22 2.8	1.792	2.723	8.4	17.3	12 7	6 40.10	+29 48.0	1.944	2.869	8.2	19.9
12 17	6 29.43	+21 57.4	1.747	2.718	4.2	17.1	12 17	6 30.37	+29 59.5	1.917	2.883	4.5	19.7
12 27	6 19.69	+21 51.8	1.731	2.714	0.6	16.8	12 27	6 19.67	+30 2.8	1.918	2.897	2.3	19.6
1 6	6 10.01	+21 45.5	1.744	2.710	4.8	17.1	1 6	6 9.22	+29 56.9	1.950	2.911	5.0	19.8
1 16	6 1.56	+21 38.9	1.785	2.706	9.0	17.3	1 16	6 0.17	+29 42.8	2.011	2.924	8.6	20.0
1 26	5 55.27	+21 32.9	1.851	2.703	12.7	17.5	1 26	5 53.41	+29 23.2	2.097	2.937	11.9	20.3
<b>226617</b>	2004 <i>DV</i> <sub>46</sub>		12 26.3 197°89	2.4/26.4	18		<b>425315</b>	2010 <i>AP</i> <sub>6</sub>		12 26.3 191°75	3.6/27.4	18	
11 17	6 52.67	+17 46.8	1.920	2.684	15.9	21.0	11 17	6 47.16	+7 48.4	2.885	3.611	11.9	21.1
11 27	6 47.84	+17 25.2	1.827	2.682	12.8	20.8	11 27	6 42.51	+8 6.6	2.785	3.609	9.8	21.0
12 7	6 40.27	+17 8.0	1.755	2.679	9.0	20.6	12 7	6 36.10	+8 35.2	2.708	3.608	7.4	20.8
12 17	6 30.53	+16 55.3	1.708	2.675	5.0	20.3	12 17	6 28.34	+9 14.5	2.658	3.606	4.9	20.6
12 27	6 19.61	+16 47.2	1.691	2.670	2.4	20.1	12 27	6 19.83	+10 3.7	2.639	3.603	3.6	20.5
1 6	6 8.73	+16 43.6	1.703	2.665	5.5	20.3	1 6	6 11.29	+11 1.1	2.652	3.601	4.8	20.6
1 16	5 59.11	+16 44.4	1.744	2.659	9.6	20.6	1 16	6 3.45	+12 4.3	2.695	3.598	7.2	20.8
1 26	5 51.75	+16 49.8	1.810	2.653	13.3	20.8	1 26	5 56.95	+13 10.8	2.767	3.595	9.7	20.9
<b>167959</b>	2005 <i>EK</i> <sub>249</sub>		12 26.3 3°85	4.2/26.6	18		<b>479434</b>	2013 <i>YC</i> <sub>99</sub>		12 26.3 349°46	1.7/26.1	18	
11 17	6 45.86	+14 34.5	1.418	2.214	19.1	20.1	11 17	6 46.46	+24 31.6	1.164	1.984	20.9	20.8
11 27	6 43.28	+14 8.0	1.342	2.213	15.4	19.8	11 27	6 44.93	+25 2.4	1.088	1.977	16.8	20.6
12 7	6 37.55	+13 50.9	1.285	2.213	11.2	19.6	12 7	6 39.43	+25 38.4	1.029	1.971	11.7	20.2
12 17	6 29.30	+13 45.0	1.250	2.214	6.7	19.3	12 17	6 30.52	+26 15.2	0.992	1.965	6.0	19.9
12 27	6 19.70	+13 51.0	1.240	2.216	4.2	19.2	12 27	6 19.65	+26 47.6	0.979	1.961	1.8	19.6
1 6	6 10.24	+14 8.0	1.257	2.219	7.0	19.3	1 6	6 8.79	+27 11.3	0.990	1.959	7.0	20.0
1 16	6 2.32	+14 34.5	1.299	2.222	11.4	19.6	1 16	5 59.91	+27 25.3	1.025	1.957	12.8	20.3
1 26	5 57.06	+15 7.8	1.363	2.227	15.6	19.9	1 26	5 54.54	+27 31.5	1.081	1.957	17.8	20.6
<b>19255</b>	1994 <i>VK</i> <sub>8</sub>		12 26.3 261°94	0.0/26.3	16 R		<b>243525</b>	2010 <i>DY</i> <sub>8</sub>		12 26.3 77°49	4.3/26.9	17	
11 17	6 23.56	+23 54.0	42.065	42.821	0.9	23.4	11 17	6 44.84	+9 3.6	2.563	3.306	12.9	20.8
11 27	6 22.87	+23 54.5	41.965	42.820	0.7	23.4	11 27	6 40.76	+8 41.4	2.486	3.320	10.5	20.7
12 7	6 22.08	+23 55.1	41.892	42.819	0.5	23.4	12 7	6 34.89	+8 28.0	2.432	3.335	7.9	20.5
12 17	6 21.23	+23 55.6	41.848	42.818	0.2	23.3	12 17	6 27.71	+8 24.5	2.404	3.350	5.5	20.4
12 27	6 20.34	+23 56.1	41.834	42.818	0.0	23.3	12 27	6 19.88	+8 31.5	2.404	3.364	4.3	20.3
1 6	6 19.46	+23 56.5	41.852	42.817	0.3	23.3	1 6	6 12.20	+8 48.6	2.434	3.379	5.5	20.4
1 16	6 18.61	+23 56.9	41.899	42.816	0.5	23.4	1 16	6 5.38	+9 14.5	2.493	3.393	7.8	20.6
1 26	6 17.83	+23 57.3	41.976	42.815	0.7	23.4	1 26	6 0.05	+9 47.3	2.578	3.408	10.3	20.8
<b>104428</b>	2000 <i>FK</i> <sub>62</sub>		12 26.3 314°85	6.4/26.6	18		<b>481317</b>	2006 <i>AV</i> <sub>34</sub>		12 26.3 19°31	1.2/26.3	18	

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>254848</b>	2005 <i>RQ</i> <sub>8</sub>		12 26.3	77°96	2°8/26.1	18	<b>15161</b>	2000 <i>FQ</i> <sub>48</sub>		12 26.3	104°32	5°0/26.5	18
11 17	6 51.11	+30 14.1	1.999	2.772	15.1	20.5	11 17	6 46.73	+8 3.2	2.708	3.439	12.5	17.1
11 27	6 46.71	+30 35.9	1.917	2.777	12.0	20.3	11 27	6 42.07	+7 9.4	2.632	3.456	10.3	17.0
12 7	6 39.51	+30 55.0	1.857	2.782	8.5	20.1	12 7	6 35.69	+6 23.1	2.579	3.472	7.9	16.8
12 17	6 30.16	+31 7.8	1.822	2.788	4.8	19.8	12 17	6 28.07	+5 46.5	2.553	3.489	5.8	16.7
12 27	6 19.70	+31 11.2	1.816	2.793	2.8	19.7	12 27	6 19.88	+5 21.4	2.556	3.505	5.0	16.7
1 6	6 9.41	+31 4.0	1.839	2.799	5.4	19.9	1 6	6 11.86	+5 8.5	2.590	3.521	6.0	16.8
1 16	6 0.51	+30 47.3	1.890	2.804	9.0	20.1	1 16	6 4.69	+5 7.4	2.652	3.536	8.1	16.9
1 26	5 53.97	+30 24.2	1.967	2.810	12.4	20.4	1 26	5 58.98	+5 16.7	2.740	3.551	10.3	17.1
<b>447934</b>	2008 <i>AZ</i> <sub>44</sub>		12 26.3	210°25	4°3/26.3	17	<b>372086</b>	2008 <i>SS</i> <sub>53</sub>		12 26.3	166°22	0°4/26.3	17
11 17	6 54.49	+36 4.2	2.224	2.979	14.3	21.3	11 17	6 47.88	+24 14.7	2.642	3.402	12.1	22.2
11 27	6 49.30	+36 22.2	2.130	2.975	11.6	21.1	11 27	6 43.35	+24 24.5	2.549	3.405	9.6	22.0
12 7	6 41.27	+36 33.4	2.059	2.971	8.6	20.9	12 7	6 36.80	+24 35.2	2.481	3.408	6.6	21.8
12 17	6 31.02	+36 33.5	2.013	2.967	5.7	20.7	12 17	6 28.71	+24 45.1	2.439	3.410	3.3	21.6
12 27	6 19.63	+36 18.9	1.996	2.963	4.3	20.6	12 27	6 19.82	+24 52.7	2.428	3.412	0.5	21.4
1 6	6 8.40	+35 49.0	2.009	2.958	6.1	20.7	1 6	6 11.00	+24 57.2	2.448	3.413	3.8	21.7
1 16	5 58.56	+35 6.1	2.051	2.953	9.1	20.9	1 16	6 3.10	+24 58.6	2.498	3.414	7.0	21.9
1 26	5 51.12	+34 14.4	2.118	2.948	12.2	21.1	1 26	5 56.82	+24 57.7	2.575	3.416	9.9	22.1
<b>516427</b>	2003 <i>TH</i> <sub>8</sub>		12 26.3	145°20	4°8/25.6	18	<b>193242</b>	2000 <i>SC</i> <sub>35</sub>		12 26.3	115°90	1°3/26.2	18
11 17	6 54.40	+40 49.3	3.224	3.949	10.8	22.3	11 17	6 54.59	+25 56.8	1.902	2.671	15.8	21.3
11 27	6 48.39	+41 37.9	3.144	3.962	9.0	22.2	11 27	6 49.35	+26 16.1	1.828	2.687	12.6	21.1
12 7	6 40.21	+42 19.9	3.087	3.975	7.0	22.1	12 7	6 41.26	+26 35.7	1.775	2.703	8.7	20.9
12 17	6 30.37	+42 51.2	3.058	3.987	5.4	22.0	12 17	6 30.98	+26 52.5	1.749	2.718	4.4	20.7
12 27	6 19.69	+43 8.6	3.059	3.998	4.8	21.9	12 27	6 19.66	+27 3.4	1.751	2.733	1.4	20.5
1 6	6 9.11	+43 10.7	3.090	4.009	5.7	22.0	1 6	6 8.60	+27 7.2	1.784	2.748	5.0	20.8
1 16	5 59.56	+42 58.7	3.151	4.019	7.5	22.2	1 16	5 59.04	+27 4.5	1.845	2.762	9.1	21.0
1 26	5 51.80	+42 35.2	3.238	4.028	9.3	22.3	1 26	5 51.94	+26 57.3	1.931	2.775	12.6	21.3
<b>129931</b>	1999 <i>TV</i> <sub>144</sub>		12 26.3	58°81	0°1/26.3	18	<b>305225</b>	2007 <i>XB</i> <sub>11</sub>		12 26.3	39°99	5°8/27.0	18
11 17	6 52.47	+23 19.7	1.535	2.323	18.2	20.0	11 17	6 47.72	+10 21.8	1.458	2.239	19.3	20.2
11 27	6 48.09	+23 13.7	1.473	2.344	14.4	19.8	11 27	6 44.36	+9 49.4	1.396	2.255	15.7	20.0
12 7	6 40.54	+23 9.5	1.431	2.365	9.9	19.6	12 7	6 38.03	+9 30.5	1.354	2.271	11.7	19.9
12 17	6 30.63	+23 5.1	1.414	2.386	4.9	19.4	12 17	6 29.43	+9 27.5	1.334	2.289	7.8	19.7
12 27	6 19.67	+22 59.0	1.424	2.407	0.4	19.1	12 27	6 19.77	+9 41.1	1.339	2.307	5.8	19.6
1 6	6 9.17	+22 50.9	1.462	2.429	5.4	19.5	1 6	6 10.44	+10 10.0	1.371	2.325	7.7	19.8
1 16	6 0.47	+22 41.7	1.526	2.450	10.0	19.8	1 16	6 2.70	+10 51.1	1.429	2.344	11.3	20.0
1 26	5 54.52	+22 32.8	1.615	2.472	13.9	20.1	1 26	5 57.50	+11 40.6	1.510	2.363	14.9	20.3
<b>160352</b>	2003 <i>UJ</i> <sub>138</sub>		12 26.3	112°80	3°8/26.6	18	<b>317411</b>	2002 <i>PP</i> <sub>175</sub>		12 26.3	101°55	4°2/26.1	17
11 17	6 46.35	+11 47.3	2.485	3.233	13.1	20.4	11 17	6 51.62	+36 2.9	2.411	3.166	13.3	20.9
11 27	6 42.04	+11 17.8	2.402	3.243	10.6	20.2	11 27	6 46.73	+36 31.1	2.329	3.174	10.8	20.7
12 7	6 35.83	+10 55.2	2.342	3.253	7.8	20.1	12 7	6 39.32	+36 53.4	2.270	3.182	8.0	20.6
12 17	6 28.19	+10 40.7	2.309	3.262	5.1	19.9	12 17	6 30.00	+37 5.8	2.237	3.189	5.3	20.4
12 27	6 19.86	+10 35.1	2.305	3.271	3.8	19.8	12 27	6 19.74	+37 5.1	2.233	3.197	4.2	20.3
1 6	6 11.65	+10 38.3	2.330	3.280	5.3	20.0	1 6	6 9.67	+36 50.5	2.259	3.204	5.7	20.5
1 16	6 4.35	+10 49.8	2.385	3.289	7.9	20.1	1 16	6 0.87	+36 23.5	2.313	3.212	8.4	20.6
1 26	5 58.63	+11 8.3	2.466	3.298	10.6	20.3	1 26	5 54.19	+35 47.5	2.393	3.219	11.1	20.8
<b>53619</b>	2000 <i>CC</i> <sub>93</sub>		12 26.3	91°67	9°4/26.2	18	<b>180620</b>	2004 <i>FE</i> <sub>126</sub>		12 26.3	263°06	4°1/26.6	18
11 17	7 1.62	+44 5.1	1.595	2.350	19.0	18.4	11 17	6 47.55	+13 1.9	1.988	2.752	15.4	20.6
11 27	6 56.62	+45 14.6	1.528	2.360	16.1	18.3	11 27	6 43.68	+12 33.8	1.895	2.746	12.6	20.4
12 7	6 47.20	+46 11.6	1.480	2.370	13.0	18.1	12 7	6 37.37	+12 13.2	1.824	2.741	9.2	20.2
12 17	6 34.20	+46 45.8	1.455	2.380	10.4	18.0	12 17	6 29.12	+12 1.7	1.778	2.736	5.8	20.0
12 27	6 19.39	+46 48.8	1.455	2.389	9.4	17.9	12 27	6 19.81	+12 0.2	1.760	2.731	4.1	19.9
1 6	6 5.08	+46 18.7	1.480	2.399	10.7	18.0	1 6	6 10.52	+12 8.5	1.770	2.725	6.1	20.0
1 16	5 53.33	+45 20.4	1.531	2.408	13.3	18.2	1 16	6 2.31	+12 25.9	1.809	2.720	9.6	20.2
1 26	5 45.50	+44 3.6	1.603	2.417	16.2	18.4	1 26	5 56.09	+12 50.8	1.872	2.715	13.0	20.4
<b>490204</b>	2008 <i>UV</i> <sub>354</sub>		12 26.3	182°24	2°0/25.9	18	<b>31489</b>	Matthewchun		12 26.3	9°28	2°4/26.7	18
11 17	6 48.45	+27 20.6	2.627	3.388	12.1	21.4	11 17	6 48.11	+16 17.2	1.371	2.168	19.5	18.1
11 27	6 44.00	+28 6.5	2.533	3.388	9.6	21.2	11 27	6 45.29	+16 28.2	1.295	2.169	15.7	17.8
12 7	6 37.38	+28 53.4	2.463	3.388	6.7	21.0	12 7	6 39.11	+16 50.4	1.237	2.170	11.1	17.5
12 17	6 29.06	+29 38.2	2.421	3.388	3.7	20.8	12 17	6 30.18	+17 23.2	1.203	2.172	6.0	17.3
12 27	6 19.79	+30 17.5	2.409	3.388	2.0	20.7	12 27	6 19.72	+18 4.3	1.193	2.174	2.4	17.0
1 6	6 10.48	+30 49.1	2.428	3.387	4.4	20.9	1 6	6 9.35	+18 50.2	1.211	2.178	6.3	17.3
1 16	6 2.08	+31 12.3	2.477	3.387	7.4	21.1	1 16	6 0.61	+19 37.7	1.254	2.181	11.4	17.6
1 26	5 55.37	+31 27.7	2.553	3.386	10.2	21.2	1 26	5 54.75	+20 24.6	1.319	2.185	15.8	17.9
<b>141634</b>	2002 <i>JC</i> <sub>51</sub>		12 26.3	169°43	1°7/26.2	18	<b>82508</b>	2001 <i>OH</i> <sub>49</sub>		12 26.3	182°05	2°6/26.5	18
11 17	6 53.33	+27 48.7	2.299	3.058	13.7	21.1	11 17	6 52.41	+16 33.3	1.984	2.744	15.6	20.2
11 27	6 48.02	+28 5.9	2.209	3.063	10.9	20.9	11 27	6 47.50	+16 16.4	1.893	2.745	12.5	20.0
12 7	6 40.20	+28 22.1	2.142	3.066	7.6	20.7	12 7	6 39.98	+16 5.2	1.824	2.746	8.9	19.8
12 17	6 30.45	+28 34.2	2.102	3.070	4.0	20.5	12 17	6 30.40	+15 59.6	1.781	2.746	5.0	19.6
12 27	6 19.69	+28 39.8	2.092	3.072	1.7	20.4	12 27	6 19.72	+15 59.8	1.767	2.745	2.6	19.4
1 6	6 9.04	+28 37.8	2.112	3.074	4.6	20.6	1 6	6 9.11	+16 5.1	1.782	2.743	5.4	19.6
1 16	5 59.57	+28 28.8	2.162	3.075	8.2	20.8	1 16	5 59.71	+16 15.1	1.827	2.741	9.3	19.8
1 26	5 52.19	+28 14.8	2.239	3.076	11.4	21.0	1 26	5 52.47	+16 29.3	1.897	2.738	12.9	20.0
<b>452016</b>	2014 <i>OX</i> <sub>114</sub>		12 26.3	35°83	0°7/26.3	18	<b>197367</b>	2003 <i>XF</i> <sub>22</sub>		12 26.3	317°95	6°9/24.9	18
11													

EPHEMERIDES

12 26.3

12 26.3

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>168931</b>	2000 YL <sub>82</sub>		12 26.3	49°77	0°5/26.3	18	<b>305243</b>	2007 XC <sub>34</sub>		12 26.3	9°64	2°1/26.1	18
11 17	6 54.28	+26 19.8	1.239	2.042	20.9	19.3	11 17	6 46.37	+25 23.2	1.318	2.129	19.4	19.7
11 27	6 50.45	+25 56.9	1.174	2.053	16.6	19.1	11 27	6 44.27	+26 2.2	1.248	2.132	15.5	19.5
12 7	6 42.67	+25 31.5	1.128	2.064	11.5	18.8	12 7	6 38.59	+26 44.8	1.197	2.135	10.7	19.2
12 17	6 31.86	+25 1.5	1.104	2.076	5.7	18.6	12 17	6 29.98	+27 26.4	1.168	2.140	5.6	18.9
12 27	6 19.62	+24 26.0	1.105	2.089	0.7	18.2	12 27	6 19.79	+28 1.7	1.165	2.146	2.2	18.7
1 6	6 7.94	+23 46.3	1.133	2.101	6.4	18.7	1 6	6 9.78	+28 27.3	1.187	2.154	6.5	19.0
1 16	5 58.51	+23 6.0	1.186	2.114	11.8	19.0	1 16	6 1.60	+28 42.2	1.234	2.162	11.5	19.3
1 26	5 52.51	+22 28.9	1.262	2.128	16.4	19.3	1 26	5 56.52	+28 48.6	1.304	2.172	15.9	19.6
<b>274335</b>	2008 RW <sub>22</sub>		12 26.3	22°69	2°4/26.1	18	<b>294914</b>	2008 DF <sub>34</sub>		12 26.3	215°00	3°6/26.6	18
11 17	6 48.47	+29 34.0	2.301	3.070	13.4	20.4	11 17	6 52.03	+14 52.6	1.781	2.547	16.9	21.3
11 27	6 44.30	+30 1.0	2.213	3.071	10.7	20.2	11 27	6 47.62	+14 30.4	1.687	2.541	13.7	21.0
12 7	6 37.73	+30 26.5	2.147	3.072	7.6	20.0	12 7	6 40.32	+14 15.5	1.614	2.535	9.9	20.8
12 17	6 29.27	+30 47.2	2.107	3.073	4.3	19.8	12 17	6 30.69	+14 8.8	1.566	2.528	5.9	20.6
12 27	6 19.81	+31 0.4	2.097	3.074	2.5	19.7	12 27	6 19.74	+14 10.8	1.545	2.521	3.6	20.4
1 6	6 10.43	+31 4.5	2.117	3.076	4.9	19.9	1 6	6 8.77	+14 21.0	1.553	2.513	6.3	20.5
1 16	6 2.16	+31 0.0	2.165	3.077	8.2	20.1	1 16	5 59.07	+14 38.5	1.589	2.504	10.4	20.8
1 26	5 55.88	+30 48.8	2.239	3.079	11.2	20.3	1 26	5 51.73	+15 2.1	1.650	2.495	14.3	21.0
<b>808</b>	Merxia		12 26.3	357°34	3°3/26.6	18	<b>265910</b>	2006 BF <sub>82</sub>		12 26.3	37°25	5°0/26.1	17
11 17	6 45.99	+16 0.5	1.608	2.397	17.5	13.6	11 17	6 51.47	+36 5.7	2.018	2.785	15.1	20.2
11 27	6 43.06	+15 39.2	1.526	2.394	14.1	13.4	11 27	6 47.20	+36 43.2	1.940	2.791	12.3	20.0
12 7	6 37.26	+15 25.2	1.464	2.393	10.1	13.2	12 7	6 39.98	+37 14.5	1.883	2.797	9.2	19.8
12 17	6 29.15	+15 19.5	1.425	2.391	5.8	12.9	12 17	6 30.45	+37 34.5	1.851	2.804	6.2	19.7
12 27	6 19.82	+15 22.4	1.413	2.391	3.3	12.8	12 27	6 19.77	+37 39.0	1.847	2.811	5.0	19.6
1 6	6 10.58	+15 33.2	1.428	2.391	6.2	12.9	1 6	6 9.29	+37 26.7	1.871	2.818	6.7	19.7
1 16	6 2.70	+15 51.0	1.470	2.392	10.5	13.2	1 16	6 0.31	+36 59.4	1.923	2.825	9.7	19.9
1 26	5 57.23	+16 14.3	1.534	2.394	14.4	13.4	1 26	5 53.85	+36 21.4	1.999	2.832	12.7	20.1
<b>337911</b>	2001 XQ <sub>123</sub>		12 26.3	338°53	1°1/26.2	18	<b>302632</b>	2002 RX <sub>92</sub>		12 26.3	58°03	3°0/26.2	18
11 17	6 46.21	+23 42.5	1.268	2.082	19.9	20.7	11 17	6 53.26	+29 43.4	1.638	2.422	17.4	20.4
11 27	6 44.46	+24 6.1	1.184	2.070	16.0	20.4	11 27	6 48.81	+30 9.8	1.576	2.442	13.9	20.2
12 7	6 38.99	+24 34.9	1.119	2.059	11.2	20.1	12 7	6 41.12	+30 33.7	1.533	2.462	9.7	20.0
12 17	6 30.31	+25 5.7	1.075	2.048	5.6	19.8	12 17	6 30.99	+30 50.4	1.515	2.482	5.4	19.8
12 27	6 19.73	+25 34.0	1.056	2.039	1.2	19.4	12 27	6 19.74	+30 56.2	1.525	2.503	3.0	19.7
1 6	6 9.06	+25 56.3	1.063	2.031	6.6	19.8	1 6	6 8.91	+30 50.1	1.562	2.523	6.0	19.9
1 16	6 0.15	+26 11.5	1.093	2.024	12.2	20.1	1 16	5 59.88	+30 33.8	1.627	2.544	10.0	20.2
1 26	5 54.49	+26 20.7	1.145	2.019	17.2	20.3	1 26	5 53.66	+30 10.8	1.716	2.565	13.6	20.5
<b>315671</b>	2008 DF <sub>83</sub>		12 26.3	303°56	1°2/26.4	17	<b>428442</b>	2007 TE <sub>322</sub>		12 26.3	52°37	0°8/26.2	18
11 17	6 47.72	+20 32.9	1.864	2.645	15.7	21.5	11 17	6 53.16	+22 53.1	1.164	1.972	21.7	21.2
11 27	6 44.21	+20 22.7	1.766	2.632	12.6	21.3	11 27	6 49.86	+23 22.4	1.103	1.985	17.2	20.9
12 7	6 37.97	+20 15.7	1.690	2.621	8.8	21.0	12 7	6 42.50	+23 57.6	1.061	1.999	11.9	20.7
12 17	6 29.52	+20 11.3	1.638	2.609	4.5	20.8	12 17	6 31.90	+24 34.4	1.040	2.013	5.9	20.4
12 27	6 19.81	+20 8.7	1.615	2.597	1.2	20.5	12 27	6 19.66	+25 7.5	1.045	2.028	1.0	20.1
1 6	6 10.07	+20 7.5	1.620	2.586	5.1	20.7	1 6	6 7.84	+25 33.2	1.075	2.043	6.7	20.5
1 16	6 1.51	+20 7.7	1.652	2.574	9.5	21.0	1 16	5 58.28	+25 50.9	1.129	2.058	12.2	20.9
1 26	5 55.18	+20 9.7	1.709	2.564	13.4	21.2	1 26	5 52.27	+26 2.4	1.205	2.073	16.9	21.2
<b>256826</b>	2008 CU <sub>142</sub>		12 26.3	347°08	3°1/26.0	17	<b>242000</b>	2002 OB <sub>12</sub>		12 26.3	73°22	5°4/26.3	18
11 17	6 50.26	+29 53.2	1.910	2.688	15.5	20.7	11 17	6 51.26	+12 31.6	1.758	2.522	17.1	20.0
11 27	6 46.32	+30 27.1	1.824	2.687	12.4	20.5	11 27	6 46.53	+11 23.9	1.692	2.542	13.9	19.9
12 7	6 39.46	+30 59.8	1.759	2.685	8.8	20.3	12 7	6 39.19	+10 23.6	1.648	2.561	10.3	19.7
12 17	6 30.25	+31 26.9	1.719	2.684	5.1	20.0	12 17	6 29.93	+9 33.9	1.628	2.581	6.9	19.5
12 27	6 19.76	+31 44.4	1.707	2.683	3.1	19.9	12 27	6 19.82	+8 57.5	1.636	2.600	5.4	19.5
1 6	6 9.34	+31 50.2	1.724	2.683	5.8	20.1	1 6	6 10.07	+8 35.8	1.672	2.619	7.2	19.6
1 16	6 0.29	+31 44.8	1.768	2.682	9.6	20.3	1 16	6 1.77	+8 28.6	1.736	2.638	10.5	19.9
1 26	5 53.68	+31 30.8	1.837	2.682	13.1	20.5	1 26	5 55.75	+8 34.2	1.823	2.657	13.6	20.1
<b>218825</b>	2006 TX <sub>34</sub>		12 26.3	6°40	1°4/26.4	18	<b>416935</b>	2005 SG <sub>111</sub>		12 26.3	163°35	9°2/25.1	14 C
11 17	6 49.41	+21 31.1	1.243	2.051	20.5	20.3	11 17	7 3.93	+52 17.3	2.628	3.317	13.8	22.2
11 27	6 46.71	+21 11.5	1.169	2.051	16.4	20.1	11 27	6 57.47	+53 40.0	2.553	3.323	12.2	22.1
12 7	6 40.27	+20 55.2	1.114	2.052	11.5	19.8	12 7	6 47.37	+54 50.4	2.499	3.328	10.6	22.0
12 17	6 30.80	+20 41.5	1.080	2.053	5.8	19.5	12 17	6 34.26	+55 40.7	2.470	3.332	9.5	21.9
12 27	6 19.72	+20 29.7	1.072	2.055	1.4	19.2	12 27	6 19.48	+56 4.3	2.466	3.336	9.2	21.9
1 6	6 8.86	+20 19.7	1.089	2.057	6.6	19.5	1 6	6 4.79	+55 59.0	2.489	3.339	9.8	21.9
1 16	5 59.94	+20 12.1	1.130	2.060	12.1	19.9	1 16	5 51.90	+55 27.1	2.537	3.342	11.1	22.0
1 26	5 54.24	+20 8.1	1.194	2.064	16.9	20.2	1 26	5 42.13	+54 34.5	2.608	3.345	12.7	22.2
<b>275265</b>	2010 AY <sub>4</sub>		12 26.3	78°51	0°4/26.2	17	<b>7956</b>	Yaji		12 26.3	223°83	0°0/26.3	18
11 17	6 48.38	+21 33.5	2.295	3.062	13.5	20.2	11 17	6 47.31	+22 30.6	2.611	3.373	12.2	18.9
11 27	6 44.11	+22 15.1	2.208	3.067	10.7	20.0	11 27	6 43.00	+22 39.4	2.511	3.367	9.7	18.7
12 7	6 37.55	+23 1.4	2.145	3.073	7.4	19.8	12 7	6 36.65	+22 50.2	2.434	3.361	6.7	18.5
12 17	6 29.19	+23 49.9	2.108	3.078	3.6	19.6	12 17	6 28.71	+23 1.6	2.385	3.355	3.3	18.2
12 27	6 19.85	+24 37.5	2.101	3.084	0.5	19.4	12 27	6 19.90	+23 12.2	2.365	3.348	0.2	18.0
1 6	6 10.53	+25 21.6	2.125	3.090	4.2	19.7	1 6	6 11.10	+23 21.2	2.377	3.342	3.8	18.3
1 16	6 2.22	+26 0.3	2.178	3.095	7.8	19.9	1 16	6 3.15	+23 28.1	2.418	3.335	7.2	18.5
1 26	5 55.75	+26 33.6	2.258	3.101	11.0	20.1	1 26	5 56.81	+23 33.4	2.486	3.328	10.2	18.6
<b>286819</b>	2002 LC <sub>50</sub>		12 26.3	184°82	0°3/26.3	18	<b>523239</b>	2016 YE <sub>14</sub>		12 26.3	1°29	9°0/27.4	18
11 17	6 52.25	+21 52.2	2.429	3.183	13.2	21.4	11						

EPHEMERIDES

12 26.3

12 26.3

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>464451</b>	2016 <i>BA</i> <sub>37</sub>		12 26.3 356°18	2°3/26.1	17		<b>47630</b>	2000 <i>CF</i> <sub>6</sub>		12 26.3 57°70	2°1/26.3	18	
11 17	6 48.27	+28 59.3	2.065	2.841	14.5	21.5	11 17	6 52.70	+20 41.1	1.356	2.150	19.8	18.5
11 27	6 44.46	+29 21.7	1.977	2.840	11.6	21.3	11 27	6 48.73	+20 5.2	1.289	2.163	15.8	18.3
12 7	6 38.01	+29 42.7	1.911	2.839	8.1	21.0	12 7	6 41.28	+19 32.0	1.242	2.175	11.0	18.0
12 17	6 29.48	+29 59.1	1.871	2.838	4.5	20.8	12 17	6 31.15	+19 2.0	1.218	2.188	5.7	17.8
12 27	6 19.86	+30 7.9	1.859	2.838	2.4	20.7	12 27	6 19.78	+18 35.5	1.220	2.201	2.1	17.6
1 6	6 10.31	+30 7.7	1.876	2.838	5.1	20.9	1 6	6 8.82	+18 13.5	1.249	2.215	6.4	17.9
1 16	6 2.00	+29 59.1	1.921	2.838	8.8	21.1	1 16	5 59.80	+17 57.3	1.303	2.228	11.3	18.2
1 26	5 55.86	+29 44.3	1.992	2.838	12.1	21.3	1 26	5 53.80	+17 47.6	1.381	2.242	15.6	18.5
<b>207258</b>	2005 <i>EW</i> <sub>250</sub>		12 26.3 276°61	0°4/26.4	18		<b>136148</b>	2003 <i>SC</i> <sub>306</sub>		12 26.3 89°10	3°0/26.4	18	
11 17	6 49.91	+19 56.4	1.908	2.682	15.6	20.8	11 17	6 58.00	+30 31.8	1.436	2.221	19.4	19.9
11 27	6 46.11	+20 22.7	1.800	2.662	12.6	20.5	11 27	6 53.06	+30 41.3	1.370	2.236	15.5	19.7
12 7	6 39.45	+20 56.2	1.712	2.642	8.8	20.3	12 7	6 44.33	+30 46.2	1.323	2.251	10.9	19.5
12 17	6 30.37	+21 35.1	1.651	2.621	4.5	20.0	12 17	6 32.68	+30 41.8	1.299	2.267	6.0	19.2
12 27	6 19.78	+22 16.5	1.617	2.601	0.5	19.6	12 27	6 19.69	+30 24.3	1.302	2.282	3.1	19.1
1 6	6 8.91	+22 57.3	1.613	2.580	5.1	19.9	1 6	6 7.23	+29 53.9	1.333	2.296	6.5	19.3
1 16	5 59.08	+23 35.3	1.638	2.559	9.7	20.1	1 16	5 56.96	+29 13.9	1.391	2.311	11.2	19.6
1 26	5 51.49	+24 9.7	1.687	2.537	13.8	20.3	1 26	5 50.02	+28 30.0	1.472	2.325	15.3	19.9
<b>117150</b>	2004 <i>PC</i> <sub>104</sub>		12 26.3 81°27	0°9/26.3	18		<b>124091</b>	2001 <i>HD</i> <sub>27</sub>		12 26.3 159°41	1°0/26.1	18	
11 17	6 51.33	+26 31.1	2.210	2.976	14.0	19.5	11 17	6 48.82	+24 37.5	3.004	3.755	11.0	20.0
11 27	6 46.27	+26 27.7	2.139	2.997	11.0	19.3	11 27	6 43.91	+25 15.2	2.911	3.762	8.7	19.9
12 7	6 38.86	+26 22.9	2.091	3.018	7.6	19.1	12 7	6 37.14	+25 54.6	2.843	3.767	6.0	19.7
12 17	6 29.73	+26 14.9	2.069	3.039	3.8	18.9	12 17	6 28.94	+26 33.3	2.803	3.772	3.0	19.5
12 27	6 19.85	+26 2.5	2.077	3.060	0.9	18.8	12 27	6 19.96	+27 9.0	2.795	3.777	1.0	19.4
1 6	6 10.29	+25 45.7	2.116	3.081	4.3	19.1	1 6	6 10.99	+27 39.9	2.819	3.781	3.6	19.6
1 16	6 2.01	+25 25.7	2.184	3.101	7.8	19.3	1 16	6 2.80	+28 5.3	2.874	3.785	6.4	19.8
1 26	5 55.78	+25 4.3	2.278	3.121	10.9	19.5	1 26	5 56.06	+28 25.4	2.957	3.789	9.0	20.0
<b>31457</b>	1999 <i>CW</i> <sub>14</sub>		12 26.3 259°48	1°6/26.4	18		<b>271512</b>	2004 <i>GO</i> <sub>5</sub>		12 26.3 257°22	5°4/25.8	18	
11 17	6 50.73	+19 13.3	1.817	2.592	16.3	19.5	11 17	6 55.47	+33 53.4	1.686	2.461	17.3	21.0
11 27	6 46.75	+19 7.0	1.715	2.577	13.1	19.3	11 27	6 51.35	+34 46.8	1.591	2.449	14.2	20.8
12 7	6 39.85	+19 5.4	1.633	2.561	9.2	19.0	12 7	6 43.55	+35 37.8	1.517	2.436	10.5	20.5
12 17	6 30.53	+19 8.1	1.576	2.546	4.9	18.7	12 17	6 32.58	+36 19.3	1.466	2.423	7.0	20.3
12 27	6 19.78	+19 14.0	1.548	2.530	1.6	18.5	12 27	6 19.69	+36 44.0	1.442	2.410	5.4	20.1
1 6	6 8.89	+19 22.1	1.548	2.513	5.5	18.7	1 6	6 6.64	+36 48.1	1.446	2.396	7.8	20.3
1 16	5 59.19	+19 32.0	1.576	2.496	10.0	18.9	1 16	5 55.24	+36 32.4	1.477	2.382	11.8	20.4
1 26	5 51.85	+19 43.7	1.629	2.480	14.2	19.1	1 26	5 46.96	+36 1.9	1.530	2.368	15.6	20.7
<b>108421</b>	2001 <i>KJ</i> <sub>36</sub>		12 26.3 206°47	2°2/26.3	18		<b>411003</b>	2009 <i>UZ</i> <sub>59</sub>		12 26.3 8°98	0°5/26.3	17	
11 17	6 50.78	+17 45.1	2.536	3.285	12.8	20.1	11 17	6 48.01	+23 34.2	2.038	2.815	14.7	21.5
11 27	6 45.65	+17 12.8	2.432	3.279	10.3	19.9	11 27	6 44.16	+23 49.6	1.951	2.815	11.7	21.3
12 7	6 38.42	+16 42.7	2.353	3.272	7.3	19.7	12 7	6 37.78	+24 7.3	1.885	2.816	8.0	21.1
12 17	6 29.58	+16 15.4	2.301	3.265	4.1	19.5	12 17	6 29.39	+24 25.1	1.845	2.816	4.0	20.8
12 27	6 19.86	+15 51.5	2.279	3.257	2.3	19.3	12 27	6 19.94	+24 41.0	1.834	2.817	0.6	20.6
1 6	6 10.19	+15 31.6	2.289	3.248	4.6	19.5	1 6	6 10.55	+24 53.3	1.852	2.818	4.6	20.9
1 16	6 1.43	+15 16.4	2.329	3.238	7.8	19.6	1 16	6 2.33	+25 1.8	1.899	2.820	8.6	21.1
1 26	5 54.35	+15 6.3	2.396	3.228	10.9	19.8	1 26	5 56.21	+25 7.1	1.971	2.821	12.1	21.4
<b>409614</b>	2005 <i>VB</i> <sub>23</sub>		12 26.3 32°22	1°2/26.4	18		<b>60440</b>	2000 <i>CY</i> <sub>82</sub>		12 26.3 221°72	1°8/26.6	18	
11 17	6 47.82	+19 41.2	1.928	2.705	15.4	21.4	11 17	6 46.38	+16 28.0	2.720	3.473	12.0	19.5
11 27	6 44.01	+19 38.8	1.844	2.708	12.2	21.2	11 27	6 42.14	+16 28.2	2.618	3.466	9.6	19.3
12 7	6 37.65	+19 40.7	1.782	2.711	8.5	21.0	12 7	6 36.01	+16 33.3	2.539	3.459	6.8	19.1
12 17	6 29.29	+19 46.2	1.745	2.715	4.4	20.8	12 17	6 28.42	+16 43.2	2.487	3.452	3.8	18.9
12 27	6 19.89	+19 54.2	1.737	2.719	1.3	20.5	12 27	6 20.02	+16 57.2	2.465	3.444	1.8	18.8
1 6	6 10.60	+20 3.8	1.757	2.723	4.8	20.8	1 6	6 11.60	+17 14.7	2.475	3.436	4.0	18.9
1 16	6 2.53	+20 14.3	1.805	2.727	8.9	21.1	1 16	6 3.95	+17 34.6	2.514	3.428	7.1	19.1
1 26	5 56.59	+20 25.7	1.879	2.731	12.5	21.3	1 26	5 57.76	+17 56.5	2.581	3.420	9.9	19.3
<b>84109</b>	2002 <i>RB</i> <sub>18</sub>		12 26.3 32°90	4°2/26.8	18		<b>275005</b>	2009 <i>TO</i> <sub>38</sub>		12 26.3 43°64	7°5/28.2	18	
11 17	6 48.87	+14 34.1	1.246	2.046	20.9	19.2	11 17	6 47.47	+ 2 38.7	1.762	2.505	17.9	19.6
11 27	6 46.00	+14 14.2	1.180	2.054	16.9	18.9	11 27	6 43.50	+ 2 15.0	1.708	2.533	14.9	19.4
12 7	6 39.61	+14 5.8	1.133	2.063	12.2	18.7	12 7	6 37.10	+ 2 9.4	1.673	2.562	11.8	19.3
12 17	6 30.42	+14 10.2	1.107	2.072	7.2	18.4	12 17	6 28.93	+ 2 24.3	1.662	2.591	8.9	19.2
12 27	6 19.81	+14 27.2	1.105	2.082	4.2	18.3	12 27	6 19.99	+ 3 0.2	1.676	2.621	7.5	19.2
1 6	6 9.47	+14 54.9	1.130	2.093	7.3	18.5	1 6	6 11.40	+ 3 54.7	1.718	2.651	8.4	19.3
1 16	6 0.99	+15 30.6	1.178	2.104	12.1	18.8	1 16	6 4.14	+ 5 3.6	1.786	2.681	10.7	19.5
1 26	5 55.55	+16 11.5	1.249	2.116	16.5	19.1	1 26	5 58.97	+ 6 21.4	1.878	2.711	13.4	19.7
<b>16226</b>	Beaton		12 26.3 178°04	3°5/26.0	18		<b>74694</b>	1999 <i>RU</i> <sub>136</sub>		12 26.3 93°86	4°2/26.9	18	
11 17	6 50.24	+33 44.8	2.470	3.229	12.9	19.1	11 17	6 52.00	+11 39.3	1.894	2.648	16.4	20.0
11 27	6 45.64	+34 13.8	2.380	3.229	10.4	18.9	11 27	6 46.98	+11 20.6	1.828	2.672	13.3	19.8
12 7	6 38.63	+34 38.7	2.313	3.230	7.6	18.7	12 7	6 39.46	+11 11.8	1.783	2.696	9.7	19.6
12 17	6 29.74	+34 55.8	2.272	3.230	4.8	18.5	12 17	6 30.10	+11 14.0	1.764	2.720	6.1	19.5
12 27	6 19.87	+35 2.2	2.261	3.230	3.6	18.5	12 27	6 19.91	+11 27.1	1.773	2.742	4.2	19.4
1 6	6 10.09	+34 56.4	2.279	3.230	5.3	18.6	1 6	6 10.03	+11 49.9	1.811	2.765	6.1	19.6
1 16	6 1.43	+34 39.6	2.326	3.230	8.1	18.7	1 16	6 1.48	+12 20.6	1.877	2.787	9.4	19.8
1 26	5 54.76	+34 14.3	2.399	3.229	10.9	18.9	1 26	5 55.10	+12 57.0	1.969	2.808	12.6	20.1
<b>513581</b>	2010 <i>WT</i> <sub>62</sub>		12 26.3 3°15	2°2/26.3	18		<b>270108</b>	2001 <i>RG</i> <sub>4</sub>		12 26.3 77°36	1°7/26.3	18	

EPHEMERIDES

12 26.3

12 26.4

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>316926</b>	2000 YV <sub>44</sub>		12 26.3 329°99	1°6/26.6	18		<b>100392</b>	1995 WR <sub>17</sub>		12 26.3 323°93	2°5/26.2	18	
11 17	6 48.59	+16 55.6	1.591	2.376	17.8	19.8	11 17	6 48.01	+27 16.1	1.254	2.067	20.1	20.0
11 27	6 45.39	+17 20.3	1.503	2.371	14.3	19.6	11 27	6 46.22	+27 37.8	1.165	2.050	16.3	19.7
12 7	6 39.09	+17 55.7	1.435	2.365	10.1	19.3	12 7	6 40.46	+28 0.7	1.095	2.033	11.5	19.3
12 17	6 30.24	+18 40.4	1.391	2.360	5.3	19.0	12 17	6 31.23	+28 20.1	1.045	2.017	6.2	19.0
12 27	6 19.89	+19 31.6	1.374	2.356	1.6	18.8	12 27	6 19.86	+28 31.1	1.021	2.002	2.6	18.7
1 6	6 9.47	+20 25.4	1.385	2.351	5.7	19.0	1 6	6 8.31	+28 30.5	1.021	1.988	7.2	19.0
1 16	6 0.40	+21 18.6	1.422	2.347	10.5	19.3	1 16	5 58.60	+28 18.9	1.045	1.974	12.8	19.2
1 26	5 53.90	+22 9.1	1.484	2.344	14.8	19.5	1 26	5 52.37	+28 0.0	1.089	1.962	17.9	19.5
<b>214026</b>	2004 DX <sub>38</sub>		12 26.3 240°21	4°4/26.9	17		<b>439230</b>	2012 TN <sub>100</sub>		12 26.3 95°30	4°0/26.6	18	
11 17	6 48.10	+10 1.2	2.176	2.925	14.7	20.9	11 17	6 51.77	+14 34.8	1.675	2.446	17.6	21.3
11 27	6 43.99	+9 49.3	2.075	2.915	12.1	20.7	11 27	6 47.28	+14 0.2	1.603	2.459	14.2	21.1
12 7	6 37.57	+9 47.5	1.996	2.905	9.1	20.5	12 7	6 39.96	+13 33.2	1.552	2.473	10.2	20.9
12 17	6 29.30	+9 57.2	1.942	2.894	6.0	20.3	12 17	6 30.47	+13 15.2	1.525	2.486	6.2	20.7
12 27	6 19.96	+10 18.8	1.917	2.883	4.4	20.2	12 27	6 19.94	+13 7.1	1.525	2.499	4.0	20.6
1 6	6 10.56	+10 51.5	1.921	2.872	6.1	20.3	1 6	6 9.68	+13 8.9	1.554	2.512	6.4	20.8
1 16	6 2.07	+11 33.2	1.953	2.861	9.2	20.5	1 16	6 0.92	+13 19.6	1.610	2.525	10.3	21.0
1 26	5 55.40	+12 21.7	2.012	2.849	12.4	20.6	1 26	5 54.59	+13 37.9	1.691	2.537	13.9	21.3
<b>467158</b>	2016 EB <sub>89</sub>		12 26.3 34°64	9°0/28.3	17		<b>101135</b>	1998 RZ <sub>60</sub>		12 26.3 29°82	4°0/26.5	18	
11 17	6 44.25	- 5 1.0	2.380	3.072	15.0	21.2	11 17	6 48.68	+17 3.2	1.156	1.967	21.6	19.0
11 27	6 40.57	- 5 45.7	2.300	3.075	13.2	21.0	11 27	6 46.03	+16 20.3	1.097	1.978	17.4	18.8
12 7	6 34.97	- 6 13.6	2.240	3.078	11.3	20.9	12 7	6 39.68	+15 44.9	1.056	1.991	12.3	18.6
12 17	6 27.90	- 6 20.7	2.202	3.081	9.7	20.8	12 17	6 30.48	+15 19.2	1.036	2.004	7.1	18.3
12 27	6 20.08	- 6 4.7	2.190	3.084	9.0	20.8	12 27	6 19.94	+15 4.4	1.041	2.019	4.0	18.2
1 6	6 12.32	- 5 25.8	2.203	3.088	9.5	20.8	1 6	6 9.84	+15 0.8	1.070	2.034	7.5	18.4
1 16	6 5.42	- 4 26.3	2.243	3.091	10.9	20.9	1 16	6 1.77	+15 7.6	1.123	2.051	12.4	18.8
1 26	6 0.08	- 3 10.7	2.307	3.095	12.7	21.0	1 26	5 56.88	+15 23.1	1.198	2.068	16.8	19.1
<b>44037</b>	1998 DD <sub>18</sub>		12 26.3 131°17	2°7/26.7	18		<b>118532</b>	2000 EJ <sub>61</sub>		12 26.4 196°06	3°4/26.2	18	
11 17	6 54.24	+15 31.9	1.786	2.548	17.0	19.9	11 17	6 55.54	+31 11.9	1.807	2.578	16.5	19.9
11 27	6 49.13	+15 29.2	1.709	2.563	13.6	19.7	11 27	6 50.75	+31 38.3	1.719	2.577	13.3	19.7
12 7	6 41.19	+15 34.6	1.654	2.576	9.6	19.5	12 7	6 42.69	+32 1.7	1.651	2.575	9.5	19.5
12 17	6 31.07	+15 47.9	1.624	2.589	5.4	19.3	12 17	6 31.98	+32 17.3	1.609	2.573	5.6	19.2
12 27	6 19.87	+16 7.9	1.623	2.602	2.7	19.1	12 27	6 19.83	+32 20.5	1.594	2.570	3.5	19.1
1 6	6 8.87	+16 33.0	1.651	2.613	5.6	19.3	1 6	6 7.77	+32 9.9	1.609	2.567	6.2	19.3
1 16	6 59.30	+17 1.6	1.708	2.624	9.7	19.6	1 16	5 57.31	+31 46.8	1.651	2.564	10.2	19.5
1 26	5 52.14	+17 32.3	1.789	2.634	13.4	19.8	1 26	5 49.61	+31 15.5	1.718	2.560	14.0	19.7
<b>114310</b>	2002 XQ <sub>52</sub>		12 26.3 54°65	1°1/26.3	18		<b>274494</b>	2008 SN <sub>124</sub>		12 26.4 285°81	1°2/26.4	18	
11 17	6 52.29	+24 53.8	1.615	2.400	17.6	19.1	11 17	6 46.59	+20 12.3	2.342	3.109	13.3	21.0
11 27	6 47.91	+25 14.2	1.556	2.425	13.8	18.9	11 27	6 42.69	+20 2.0	2.242	3.100	10.6	20.8
12 7	6 40.45	+25 35.9	1.518	2.450	9.5	18.7	12 7	6 36.60	+19 54.2	2.164	3.091	7.4	20.6
12 17	6 30.69	+25 55.8	1.504	2.475	4.7	18.5	12 17	6 28.81	+19 48.6	2.113	3.082	3.8	20.3
12 27	6 19.90	+26 10.7	1.517	2.500	1.2	18.3	12 27	6 20.07	+19 44.7	2.091	3.073	1.2	20.1
1 6	6 9.55	+26 19.1	1.559	2.525	5.3	18.6	1 6	6 11.34	+19 42.3	2.100	3.065	4.3	20.3
1 16	6 0.91	+26 21.4	1.628	2.551	9.6	18.9	1 16	6 3.54	+19 41.2	2.137	3.056	7.9	20.5
1 26	5 54.95	+26 19.5	1.722	2.576	13.4	19.2	1 26	5 57.48	+19 41.8	2.200	3.047	11.1	20.7
<b>220054</b>	2002 RL <sub>109</sub>		12 26.3 72°98	1°3/26.4	18		<b>326615</b>	2002 RS <sub>115</sub>		12 26.4 120°27	1°3/26.5	17	
11 17	6 56.14	+20 29.7	1.408	2.193	19.7	21.2	11 17	6 47.38	+19 8.0	2.596	3.354	12.4	21.3
11 27	6 51.12	+20 22.0	1.352	2.220	15.6	21.0	11 27	6 42.89	+18 58.3	2.511	3.364	9.8	21.2
12 7	6 42.71	+20 19.1	1.317	2.248	10.7	20.8	12 7	6 36.48	+18 51.6	2.450	3.374	6.8	21.0
12 17	6 31.80	+20 19.6	1.305	2.275	5.4	20.6	12 17	6 28.64	+18 47.5	2.416	3.383	3.6	20.8
12 27	6 19.83	+20 21.7	1.320	2.302	1.3	20.4	12 27	6 20.09	+18 45.6	2.412	3.393	1.3	20.6
1 6	6 8.45	+20 24.6	1.363	2.329	5.8	20.8	1 6	6 11.68	+18 45.7	2.438	3.402	3.9	20.9
1 16	5 59.08	+20 28.2	1.432	2.356	10.6	21.1	1 16	6 4.17	+18 47.6	2.495	3.411	7.1	21.1
1 26	5 52.71	+20 33.2	1.526	2.382	14.7	21.4	1 26	5 58.26	+18 51.3	2.578	3.419	9.9	21.3
<b>46734</b>	1997 TL <sub>25</sub>		12 26.3 306°93	10°6/26.9	18		<b>98110</b>	2000 RR <sub>92</sub>		12 26.4 109°85	0°7/26.4	18	
11 17	6 44.13	- 6 10.9	2.255	2.946	15.8	18.7	11 17	6 55.01	+21 56.5	1.470	2.255	19.0	19.9
11 27	6 40.72	- 7 29.6	2.168	2.937	14.1	18.5	11 27	6 50.48	+21 48.6	1.397	2.266	15.1	19.6
12 7	6 35.22	- 8 32.2	2.101	2.928	12.4	18.4	12 7	6 42.52	+21 43.8	1.344	2.276	10.5	19.4
12 17	6 28.10	- 9 13.3	2.055	2.919	11.1	18.3	12 17	6 31.86	+21 40.5	1.315	2.286	5.3	19.1
12 27	6 20.08	- 9 28.6	2.034	2.910	10.6	18.2	12 27	6 19.87	+21 37.0	1.313	2.296	0.8	18.8
1 6	6 12.04	- 9 16.5	2.037	2.901	11.1	18.2	1 6	6 8.18	+21 32.6	1.339	2.306	5.8	19.2
1 16	6 4.85	- 8 38.5	2.065	2.892	12.5	18.3	1 16	5 58.33	+21 27.8	1.392	2.315	10.8	19.5
1 26	5 59.31	- 7 38.6	2.114	2.884	14.3	18.4	1 26	5 51.45	+21 24.2	1.468	2.324	15.1	19.8
<b>457242</b>	2008 OC <sub>19</sub>		12 26.3 71°83	6°8/27.1	17		<b>158005</b>	2000 QO <sub>23</sub>		12 26.4 87°60	1°2/26.2	18	
11 17	6 59.58	+45 0.4	2.238	2.967	14.9	21.0	11 17	6 55.10	+25 3.7	1.702	2.477	17.2	20.5
11 27	6 53.31	+45 21.1	2.169	2.985	12.5	20.9	11 27	6 50.04	+25 28.2	1.636	2.500	13.6	20.3
12 7	6 43.94	+45 28.9	2.121	3.003	10.0	20.8	12 7	6 41.91	+25 54.3	1.592	2.522	9.3	20.1
12 17	6 32.32	+45 18.2	2.097	3.021	7.8	20.7	12 17	6 31.45	+26 18.1	1.573	2.544	4.7	19.9
12 27	6 19.80	+44 45.3	2.102	3.039	6.8	20.6	12 27	6 19.90	+26 36.4	1.583	2.565	1.3	19.7
1 6	6 7.87	+43 50.8	2.135	3.056	7.7	20.7	1 6	6 8.72	+26 47.4	1.621	2.586	5.3	20.0
1 16	5 57.83	+42 39.0	2.196	3.074	9.8	20.9	1 16	5 59.23	+26 51.3	1.688	2.607	9.6	20.3
1 26	5 50.58	+41 16.3	2.283	3.092	12.1	21.1	1 26	5 52.41	+26 50.3	1.779	2.627	13.3	20.6
<b>477415</b>	2009 VK <sub>116</sub>		12 26.3 345°71	2°0/26.2	16		<b>214510</b>	2006 BZ <sub>164</sub>		12 26.4 123°03	1°6/26.2	17	
11 17	6 46.84	+25 33.6	1.										

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>412791</b>	2014 <i>PT</i> <sub>21</sub>		12 26.4 163°51		0°8/26.3 17		<b>51467</b>	2001 <i>FQ</i> <sub>48</sub>		12 26.4 156°00		2°0/26.2 18	
11 17	6 50.16	+25 12.6	2.174	2.942	14.1	21.9	11 17	6 55.93	+27 41.8	1.811	2.581	16.5	19.7
11 27	6 45.69	+25 21.7	2.085	2.944	11.2	21.7	11 27	6 50.83	+28 1.4	1.728	2.588	13.2	19.5
12 7	6 38.75	+25 31.3	2.018	2.946	7.8	21.5	12 7	6 42.60	+28 20.3	1.666	2.594	9.2	19.3
12 17	6 29.88	+25 39.3	1.977	2.948	3.9	21.3	12 17	6 31.90	+28 34.6	1.630	2.599	4.9	19.0
12 27	6 20.01	+25 43.5	1.966	2.949	0.8	21.1	12 27	6 19.91	+28 40.8	1.623	2.604	2.0	18.9
1 6	6 10.22	+25 43.2	1.985	2.950	4.5	21.3	1 6	6 8.10	+28 37.4	1.645	2.608	5.5	19.1
1 16	6 1.59	+25 38.6	2.033	2.951	8.3	21.6	1 16	5 57.85	+28 25.6	1.695	2.611	9.7	19.4
1 26	5 55.01	+25 31.1	2.107	2.952	11.6	21.8	1 26	5 50.26	+28 8.2	1.770	2.614	13.5	19.6
<b>2555</b>	Thomas		12 26.4 69°60		0°1/26.4 18		<b>416391</b>	2003 <i>UG</i> <sub>51</sub>		12 26.4 131°47		5°6/26.5 17	
11 17	6 49.31	+23 18.8	2.008	2.783	14.9	16.5	11 17	6 56.31	+42 34.1	2.644	3.373	12.8	21.1
11 27	6 45.11	+23 21.6	1.927	2.791	11.8	16.3	11 27	6 50.37	+43 0.7	2.563	3.383	10.7	21.0
12 7	6 38.38	+23 26.1	1.869	2.799	8.2	16.1	12 7	6 41.83	+43 17.8	2.505	3.392	8.4	20.8
12 17	6 29.69	+23 30.5	1.836	2.807	4.0	15.8	12 17	6 31.35	+43 20.7	2.472	3.401	6.4	20.7
12 27	6 20.02	+23 33.3	1.832	2.815	0.3	15.5	12 27	6 19.96	+43 6.1	2.468	3.410	5.6	20.7
1 6	6 10.52	+23 33.6	1.857	2.823	4.6	15.9	1 6	6 8.88	+42 33.8	2.494	3.419	6.6	20.8
1 16	6 2.27	+23 31.7	1.910	2.831	8.5	16.2	1 16	5 59.20	+41 46.0	2.549	3.427	8.6	20.9
1 26	5 56.16	+23 28.6	1.990	2.839	12.0	16.4	1 26	5 51.78	+40 47.3	2.629	3.435	10.8	21.1
<b>32148</b>	2000 <i>LX</i> <sub>30</sub>		12 26.4 97°72		1°5/26.5 18		<b>272049</b>	2005 <i>EK</i> <sub>133</sub>		12 26.4 233°88		8°5/25.4 18	
11 17	6 54.04	+19 29.5	1.735	2.507	17.1	19.6	11 17	6 58.52	+50 36.9	2.645	3.349	13.4	20.5
11 27	6 48.99	+19 23.5	1.667	2.527	13.5	19.4	11 27	6 53.00	+51 41.1	2.559	3.343	11.8	20.4
12 7	6 41.08	+19 22.2	1.620	2.547	9.4	19.2	12 7	6 44.21	+52 33.9	2.493	3.337	10.1	20.3
12 17	6 31.01	+19 24.6	1.598	2.567	4.8	19.0	12 17	6 32.77	+53 8.3	2.452	3.331	8.9	20.2
12 27	6 19.94	+19 29.4	1.604	2.586	1.5	18.8	12 27	6 19.86	+53 18.7	2.437	3.325	8.5	20.1
1 6	6 9.22	+19 35.7	1.640	2.605	5.2	19.1	1 6	6 7.03	+53 3.1	2.448	3.319	9.2	20.2
1 16	6 0.06	+19 43.2	1.704	2.623	9.5	19.4	1 16	5 55.78	+52 23.5	2.485	3.312	10.6	20.2
1 26	5 53.38	+19 52.1	1.792	2.641	13.2	19.6	1 26	5 47.30	+51 25.0	2.545	3.305	12.4	20.4
<b>59540</b>	1999 <i>JC</i> <sub>31</sub>		12 26.4 236°37		1°1/26.3 18		<b>270710</b>	2002 <i>QT</i> <sub>93</sub>		12 26.4 325°36		4°8/27.1 18	
11 17	6 51.87	+25 12.2	1.705	2.488	16.9	19.0	11 17	6 45.19	+8 26.5	2.273	3.021	14.2	20.5
11 27	6 47.85	+25 25.6	1.618	2.486	13.5	18.8	11 27	6 41.53	+8 8.6	2.182	3.018	11.7	20.3
12 7	6 40.69	+25 40.3	1.552	2.484	9.4	18.6	12 7	6 35.78	+8 1.2	2.111	3.016	8.9	20.1
12 17	6 31.01	+25 53.5	1.511	2.482	4.7	18.3	12 17	6 28.41	+8 5.7	2.067	3.013	6.2	20.0
12 27	6 19.93	+26 2.0	1.497	2.480	1.1	18.0	12 27	6 20.17	+8 23.0	2.050	3.011	4.8	19.9
1 6	6 8.93	+26 4.4	1.511	2.477	5.4	18.3	1 6	6 11.94	+8 52.3	2.062	3.008	6.1	19.9
1 16	5 59.41	+26 0.8	1.553	2.475	10.0	18.6	1 16	6 4.60	+9 31.9	2.102	3.006	8.9	20.1
1 26	5 52.52	+25 53.4	1.620	2.473	14.1	18.8	1 26	5 58.93	+10 19.1	2.168	3.004	11.7	20.3
<b>440127</b>	2003 <i>SG</i> <sub>281</sub>		12 26.4 96°07		1°4/26.5 18		<b>232100</b>	2001 <i>XG</i> <sub>141</sub>		12 26.4 329°59		1°1/26.4 18	
11 17	6 52.74	+18 34.8	1.904	2.670	15.9	21.7	11 17	6 47.48	+20 36.5	1.377	2.180	19.2	20.7
11 27	6 47.72	+18 40.4	1.835	2.692	12.6	21.5	11 27	6 45.10	+20 36.2	1.290	2.169	15.4	20.4
12 7	6 40.09	+18 51.6	1.787	2.713	8.8	21.3	12 7	6 39.26	+20 41.5	1.221	2.158	10.8	20.1
12 17	6 30.50	+19 7.1	1.766	2.734	4.5	21.1	12 17	6 30.49	+20 51.5	1.176	2.148	5.5	19.8
12 27	6 19.99	+19 25.3	1.773	2.755	1.4	20.9	12 27	6 20.01	+21 4.2	1.155	2.138	1.1	19.4
1 6	6 9.76	+19 44.5	1.810	2.775	4.8	21.2	1 6	6 9.46	+21 17.9	1.161	2.130	6.2	19.7
1 16	6 0.92	+20 4.0	1.876	2.795	8.8	21.5	1 16	6 0.50	+21 31.5	1.192	2.122	11.6	20.0
1 26	5 54.33	+20 23.5	1.967	2.814	12.3	21.8	1 26	5 54.50	+21 45.3	1.245	2.114	16.4	20.3
<b>511029</b>	2013 <i>QL</i> <sub>72</sub>		12 26.4 41°49		2°5/26.7 18		<b>385922</b>	2007 <i>BG</i> <sub>81</sub>		12 26.4 308°21		3°6/26.3 18	
11 17	6 50.80	+16 24.2	1.097	1.907	22.6	21.2	11 17	6 52.22	+30 36.4	1.439	2.233	18.9	21.5
11 27	6 47.96	+16 36.7	1.041	1.923	18.0	20.9	11 27	6 49.08	+30 57.1	1.350	2.222	15.3	21.2
12 7	6 41.19	+17 2.2	1.003	1.939	12.7	20.7	12 7	6 42.13	+31 15.0	1.280	2.211	11.0	20.9
12 17	6 31.33	+17 39.4	0.985	1.956	6.7	20.4	12 17	6 31.96	+31 24.5	1.233	2.200	6.3	20.7
12 27	6 19.94	+18 24.7	0.992	1.974	2.5	20.2	12 27	6 19.91	+31 20.9	1.212	2.190	3.6	20.5
1 6	6 8.99	+19 13.5	1.024	1.992	6.9	20.6	1 6	6 7.86	+31 2.0	1.217	2.180	7.1	20.6
1 16	6 0.23	+20 2.2	1.080	2.011	12.3	20.9	1 16	5 57.65	+30 30.1	1.248	2.170	11.9	20.9
1 26	5 54.90	+20 48.6	1.158	2.031	17.1	21.3	1 26	5 50.72	+29 50.2	1.301	2.161	16.5	21.1
<b>226495</b>	2003 <i>SJ</i> <sub>286</sub>		12 26.4 99°70		1°0/26.2 17		<b>418579</b>	2008 <i>SM</i> <sub>196</sub>		12 26.4 25°85		2°5/26.6 17	
11 17	6 48.58	+25 0.6	2.319	3.087	13.4	20.8	11 17	6 45.85	+16 45.5	2.057	2.829	14.7	21.7
11 27	6 44.29	+25 22.2	2.233	3.092	10.6	20.7	11 27	6 42.24	+16 25.5	1.976	2.835	11.8	21.6
12 7	6 37.70	+25 45.0	2.170	3.098	7.3	20.5	12 7	6 36.34	+16 10.7	1.916	2.841	8.3	21.4
12 17	6 29.35	+26 6.6	2.134	3.104	3.7	20.3	12 17	6 28.69	+16 1.5	1.882	2.848	4.7	21.2
12 27	6 20.08	+26 24.8	2.127	3.110	1.0	20.1	12 27	6 20.16	+15 58.3	1.877	2.855	2.5	21.0
1 6	6 10.89	+26 38.2	2.151	3.115	4.2	20.3	1 6	6 11.77	+16 0.5	1.900	2.862	5.0	21.2
1 16	6 2.76	+26 46.3	2.203	3.121	7.8	20.5	1 16	6 4.47	+16 7.9	1.952	2.870	8.5	21.4
1 26	5 56.51	+26 50.3	2.282	3.126	10.9	20.7	1 26	5 59.08	+16 19.7	2.028	2.878	11.8	21.6
<b>129891</b>	1999 <i>TO</i> <sub>29</sub>		12 26.4 93°54		2°5/26.6 18		<b>189729</b>	2001 <i>WV</i> <sub>8</sub>		12 26.4 83°56		0°7/26.5 18	
11 17	6 52.38	+16 52.2	1.859	2.625	16.3	20.3	11 17	6 54.25	+20 15.3	1.613	2.390	17.9	20.3
11 27	6 47.43	+16 35.1	1.790	2.646	13.0	20.1	11 27	6 49.43	+20 30.6	1.549	2.413	14.2	20.1
12 7	6 39.88	+16 23.9	1.743	2.666	9.1	19.9	12 7	6 41.54	+20 51.5	1.505	2.435	9.8	19.9
12 17	6 30.40	+16 18.7	1.721	2.687	5.1	19.7	12 17	6 31.31	+21 15.7	1.486	2.456	4.9	19.6
12 27	6 20.02	+16 19.2	1.728	2.707	2.6	19.6	12 27	6 19.99	+21 40.4	1.495	2.478	0.7	19.4
1 6	6 9.95	+16 24.8	1.765	2.727	5.3	19.8	1 6	6 9.03	+22 3.5	1.533	2.499	5.3	19.8
1 16	6 1.30	+16 34.7	1.829	2.746	9.1	20.1	1 16	5 59.75	+22 24.0	1.598	2.520	9.8	20.1
1 26	5 54.89	+16 48.5	1.919	2.765	12.6	20.4	1 26	5 53.13	+22 42.2	1.688	2.541	13.7	20.3
<b>325905</b>	2010 <i>UP</i> <sub>57</sub>		12 26.4 342°58		2°7/26.2 17		<b>402721</b>	2006 <i>WP</i> <sub>48</sub>		12 26.4 350°45		0°5/26.4 17	

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>240671</b>	2005 <i>EO</i> <sub>88</sub>		12 26.4	72°72	6°1/27.0	18	<b>420070</b>	2011 <i>EZ</i> <sub>19</sub>		12 26.4	258°22	2°8/25.9	18
11 17	6 49.85	+ 8 50.3	1.737	2.496	17.5	20.3	11 17	6 49.33	+30 0.9	2.430	3.194	12.9	20.9
11 27	6 45.57	+ 8 6.8	1.672	2.514	14.4	20.1	11 27	6 45.08	+30 43.6	2.333	3.188	10.4	20.7
12 7	6 38.69	+ 7 35.3	1.626	2.533	10.9	20.0	12 7	6 38.44	+31 25.8	2.259	3.181	7.4	20.5
12 17	6 29.86	+ 7 18.6	1.605	2.552	7.6	19.8	12 17	6 29.87	+32 3.7	2.211	3.175	4.4	20.3
12 27	6 20.12	+ 7 18.1	1.611	2.570	6.1	19.8	12 27	6 20.19	+32 33.8	2.193	3.168	2.9	20.2
1 6	6 10.67	+ 7 33.5	1.644	2.589	7.6	19.9	1 6	6 10.46	+32 53.8	2.205	3.161	5.0	20.3
1 16	6 2.60	+ 8 2.7	1.704	2.608	10.6	20.1	1 16	6 1.71	+33 3.3	2.247	3.154	8.2	20.5
1 26	5 56.77	+ 8 42.3	1.788	2.626	13.7	20.3	1 26	5 54.87	+33 3.9	2.314	3.148	11.1	20.7
<b>217145</b>	2002 <i>ML</i> <sub>2</sub>		12 26.4	99°67	0°4/26.4	18	<b>329488</b>	2002 <i>QJ</i> <sub>115</sub>		12 26.4	169°11	1°0/26.5	18
11 17	6 59.01	+24 49.8	1.698	2.466	17.5	21.0	11 17	6 47.26	+18 58.5	2.764	3.519	11.8	21.7
11 27	6 52.94	+24 44.1	1.635	2.494	13.8	20.8	11 27	6 42.81	+19 5.9	2.670	3.521	9.3	21.5
12 7	6 43.78	+24 38.2	1.593	2.520	9.5	20.6	12 7	6 36.50	+19 17.1	2.600	3.524	6.5	21.3
12 17	6 32.35	+24 29.9	1.576	2.546	4.7	20.4	12 17	6 28.77	+19 31.2	2.558	3.526	3.4	21.1
12 27	6 19.97	+24 17.4	1.588	2.572	0.5	20.2	12 27	6 20.29	+19 47.2	2.546	3.528	1.0	20.9
1 6	6 8.12	+24 0.7	1.630	2.596	5.2	20.6	1 6	6 11.85	+20 4.1	2.565	3.529	3.7	21.1
1 16	5 58.10	+23 41.6	1.701	2.620	9.5	20.9	1 16	6 4.21	+20 21.3	2.614	3.530	6.8	21.3
1 26	5 50.83	+23 22.4	1.797	2.643	13.3	21.2	1 26	5 58.05	+20 38.4	2.691	3.531	9.5	21.5
<b>443703</b>	2015 <i>KQ</i> <sub>111</sub>		12 26.4	203°40	3°4/26.8	18	<b>296354</b>	2009 <i>FH</i> <sub>22</sub>		12 26.4	252°95	6°0/25.4	17
11 17	6 51.33	+14 27.7	1.714	2.484	17.3	21.4	11 17	6 54.91	+37 12.7	2.067	2.825	15.1	20.6
11 27	6 47.22	+14 20.2	1.626	2.482	14.0	21.1	11 27	6 50.41	+38 17.9	1.970	2.813	12.5	20.4
12 7	6 40.19	+14 22.0	1.557	2.480	10.1	20.9	12 7	6 42.67	+39 19.2	1.894	2.801	9.6	20.2
12 17	6 30.79	+14 33.5	1.514	2.477	5.9	20.6	12 17	6 32.19	+40 9.7	1.844	2.788	7.0	20.0
12 27	6 20.07	+14 54.4	1.497	2.474	3.4	20.5	12 27	6 20.05	+40 43.0	1.822	2.776	6.1	19.9
1 6	6 9.34	+15 22.9	1.509	2.471	6.1	20.6	1 6	6 7.75	+40 55.3	1.828	2.763	7.8	20.0
1 16	5 59.93	+15 57.2	1.549	2.467	10.4	20.9	1 16	5 56.80	+40 47.2	1.861	2.750	10.7	20.1
1 26	5 52.93	+16 35.4	1.613	2.463	14.3	21.1	1 26	5 48.51	+40 22.6	1.918	2.736	13.7	20.3
<b>261397</b>	2005 <i>UW</i> <sub>439</sub>		12 26.4	185°19	3°0/26.3	18	<b>409294</b>	2004 <i>SR</i> <sub>41</sub>		12 26.4	117°91	1°5/26.4	17
11 17	6 53.70	+33 16.4	2.542	3.292	12.8	21.0	11 17	6 51.09	+28 16.0	2.232	2.997	13.9	21.1
11 27	6 48.25	+33 26.3	2.447	3.292	10.3	20.8	11 27	6 46.36	+28 16.3	2.146	3.003	11.0	20.9
12 7	6 40.41	+33 31.3	2.375	3.291	7.4	20.6	12 7	6 39.19	+28 14.2	2.083	3.009	7.7	20.7
12 17	6 30.72	+33 28.3	2.331	3.290	4.5	20.4	12 17	6 30.16	+28 7.6	2.047	3.015	4.0	20.5
12 27	6 20.11	+33 14.8	2.316	3.289	3.0	20.3	12 27	6 20.21	+27 54.7	2.039	3.021	1.5	20.3
1 6	6 9.63	+32 50.5	2.332	3.287	4.9	20.4	1 6	6 10.44	+27 35.4	2.062	3.026	4.5	20.6
1 16	6 0.32	+32 16.9	2.378	3.285	7.8	20.6	1 16	6 1.88	+27 10.9	2.115	3.032	8.1	20.8
1 26	5 52.99	+31 37.1	2.451	3.282	10.7	20.8	1 26	5 55.39	+26 43.7	2.193	3.037	11.3	21.0
<b>121009</b>	1999 <i>AV</i> <sub>10</sub>		12 26.4	160°73	1°6/26.2	18	<b>209505</b>	2004 <i>LG</i> <sub>20</sub>		12 26.4	266°66	3°5/26.6	18
11 17	6 49.82	+28 8.0	3.059	3.809	10.8	20.3	11 17	6 50.59	+15 36.7	1.680	2.455	17.4	21.0
11 27	6 44.71	+28 32.1	2.968	3.816	8.6	20.2	11 27	6 46.90	+15 12.2	1.580	2.440	14.2	20.7
12 7	6 37.73	+28 55.3	2.901	3.822	6.0	20.0	12 7	6 40.18	+14 54.4	1.500	2.424	10.3	20.5
12 17	6 29.34	+29 15.3	2.862	3.828	3.2	19.8	12 17	6 30.93	+14 44.5	1.444	2.408	6.0	20.2
12 27	6 20.22	+29 30.2	2.855	3.834	1.6	19.7	12 27	6 20.16	+14 43.1	1.415	2.392	3.5	20.0
1 6	6 11.16	+29 38.8	2.879	3.839	3.7	19.9	1 6	6 9.23	+14 50.1	1.415	2.376	6.5	20.1
1 16	6 2.92	+29 41.2	2.934	3.843	6.4	20.1	1 16	5 59.55	+15 4.8	1.440	2.359	11.0	20.3
1 26	5 56.18	+29 38.5	3.017	3.847	8.9	20.2	1 26	5 52.31	+15 26.2	1.490	2.342	15.2	20.6
<b>33940</b>	2000 <i>LS</i> <sub>35</sub>		12 26.4	68°54	2°7/26.5	18	<b>424291</b>	2007 <i>TJ</i> <sub>167</sub>		12 26.4	45°53	0°1/26.4	18
11 17	6 52.27	+17 53.4	1.535	2.318	18.4	18.4	11 17	6 53.56	+23 55.7	1.081	1.895	22.6	20.8
11 27	6 47.95	+17 27.5	1.470	2.335	14.7	18.2	11 27	6 50.36	+23 48.2	1.026	1.911	17.9	20.6
12 7	6 40.57	+17 7.4	1.425	2.353	10.3	18.0	12 7	6 42.95	+23 42.8	0.988	1.927	12.4	20.3
12 17	6 30.88	+16 53.4	1.404	2.371	5.7	17.8	12 17	6 32.27	+23 37.0	0.971	1.944	6.1	20.1
12 27	6 20.12	+16 45.6	1.410	2.390	2.7	17.6	12 27	6 20.09	+23 28.4	0.979	1.962	0.4	19.7
1 6	6 9.74	+16 43.8	1.444	2.408	6.0	17.9	1 6	6 8.53	+23 16.7	1.012	1.981	6.7	20.2
1 16	6 1.04	+16 47.6	1.505	2.426	10.4	18.2	1 16	5 59.42	+23 3.4	1.068	2.000	12.4	20.6
1 26	5 54.99	+16 56.5	1.589	2.444	14.2	18.5	1 26	5 53.96	+22 50.9	1.146	2.019	17.2	20.9
<b>460798</b>	2014 <i>WT</i> <sub>43</sub>		12 26.4	319°43	7°1/26.0	18	<b>323377</b>	2003 <i>WY</i> <sub>148</sub>		12 26.4	130°29	4°9/25.6	18
11 17	6 44.87	+ 7 29.7	2.013	2.767	15.6	20.7	11 17	6 53.71	+39 7.7	2.900	3.635	11.7	20.6
11 27	6 41.68	+ 6 14.8	1.913	2.750	13.1	20.5	11 27	6 48.20	+40 3.2	2.821	3.648	9.6	20.5
12 7	6 36.15	+ 5 7.4	1.834	2.732	10.4	20.3	12 7	6 40.37	+40 52.9	2.767	3.662	7.4	20.4
12 17	6 28.74	+ 4 12.0	1.780	2.715	8.0	20.1	12 17	6 30.75	+41 32.1	2.739	3.674	5.5	20.3
12 27	6 20.25	+ 3 32.5	1.753	2.699	7.1	20.0	12 27	6 20.19	+41 57.3	2.742	3.687	4.9	20.2
1 6	6 11.70	+ 3 11.4	1.753	2.683	8.4	20.0	1 6	6 9.72	+42 6.7	2.774	3.699	6.0	20.3
1 16	6 4.10	+ 3 8.9	1.779	2.667	11.1	20.2	1 16	6 0.32	+42 1.2	2.835	3.710	7.9	20.5
1 26	5 58.35	+ 3 23.5	1.828	2.652	14.1	20.3	1 26	5 52.83	+41 43.5	2.922	3.721	10.0	20.6
<b>451288</b>	2010 <i>SN</i> <sub>34</sub>		12 26.4	167°81	1°6/26.6	18	<b>339334</b>	2004 <i>XW</i> <sub>183</sub>		12 26.4	2°40	21°5/17.5	18
11 17	6 48.98	+17 51.8	2.106	2.872	14.6	21.9	11 17	6 58.04	+45 35.3	0.832	1.650	27.4	19.5
11 27	6 44.79	+17 54.6	2.017	2.874	11.7	21.7	11 27	6 59.71	+50 30.2	0.788	1.647	24.6	19.3
12 7	6 38.19	+18 3.0	1.950	2.875	8.2	21.5	12 7	6 54.16	+55 19.0	0.761	1.646	22.4	19.2
12 17	6 29.70	+18 16.4	1.908	2.876	4.4	21.3	12 17	6 40.27	+59 29.9	0.753	1.646	21.5	19.1
12 27	6 20.20	+18 33.8	1.896	2.877	1.6	21.1	12 27	6 19.43	+62 30.3	0.764	1.648	22.2	19.2
1 6	6 10.75	+18 53.6	1.913	2.877	4.7	21.3	1 6	5 56.68	+64 3.8	0.790	1.651	24.0	19.3
1 16	6 2.37	+19 15.0	1.959	2.878	8.5	21.5	1 16	5 38.68	+64 17.0	0.831	1.656	26.4	19.5
1 26	5 55.95	+19 37.2	2.031	2.878	11.9	21.8	1 26	5 30.09	+63 32.4	0.883	1.662	28.8	19.7
<b>65562</b>	2219 <i>T-2</i>		12 26.4	134°76	0°7/26.3	18	<b>97606</b>	2000 <i>EM</i> <sub>77</sub>		12 26.4			



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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>362764</b>	2011 <i>WM</i> <sub>38</sub>		12 26.4	36°40	1.2°/26.5	18	<b>404748</b>	2014 <i>JQ</i> <sub>32</sub>		12 26.4	178°91	5.2°/27.1	18
11 17	6 49.53	+20 55.4	1.766	2.547	16.4	20.8	11 17	6 49.13	+6 17.9	2.593	3.316	13.2	22.5
11 27	6 45.69	+20 42.1	1.684	2.550	13.1	20.6	11 27	6 44.30	+5 47.8	2.500	3.318	11.0	22.4
12 7	6 39.04	+20 31.8	1.623	2.554	9.1	20.4	12 7	6 37.55	+5 27.3	2.430	3.319	8.6	22.2
12 17	6 30.20	+20 23.8	1.587	2.558	4.7	20.1	12 17	6 29.33	+5 18.4	2.386	3.320	6.3	22.1
12 27	6 20.22	+20 17.4	1.579	2.562	1.2	19.9	12 27	6 20.34	+5 22.3	2.370	3.320	5.2	22.0
1 6	6 10.41	+20 12.2	1.600	2.566	5.1	20.2	1 6	6 11.38	+5 38.8	2.385	3.319	6.3	22.1
1 16	6 1.96	+20 8.5	1.647	2.570	9.5	20.5	1 16	6 3.25	+6 6.8	2.429	3.318	8.5	22.2
1 26	5 55.88	+20 6.9	1.720	2.575	13.3	20.7	1 26	5 56.65	+6 44.1	2.500	3.315	11.0	22.4
<b>47037</b>	1998 <i>WM</i> <sub>2</sub>		12 26.4	321°52	20°0/23.9	18	<b>71361</b>	2000 <i>AP</i> <sub>129</sub>		12 26.4	227°77	3°3/26.9	18
11 17	6 43.28	-13 41.7	1.384	2.087	23.6	18.1	11 17	6 46.35	+12 10.3	2.450	3.201	13.2	19.3
11 27	6 41.69	-16 19.7	1.309	2.064	22.3	17.9	11 27	6 42.36	+12 5.9	2.354	3.197	10.7	19.2
12 7	6 36.93	-18 33.6	1.248	2.042	21.0	17.8	12 7	6 36.36	+12 9.5	2.280	3.194	7.8	19.0
12 17	6 29.45	-20 10.0	1.203	2.021	20.2	17.6	12 17	6 28.80	+12 21.8	2.233	3.190	4.9	18.8
12 27	6 20.26	-20 57.0	1.175	2.000	20.1	17.6	12 27	6 20.38	+12 42.6	2.214	3.186	3.3	18.7
1 6	6 10.80	-20 48.4	1.163	1.981	20.7	17.5	1 6	6 11.95	+13 10.8	2.226	3.182	4.9	18.8
1 16	6 2.60	-19 44.7	1.168	1.962	22.1	17.6	1 16	6 4.35	+13 45.0	2.267	3.178	7.9	18.9
1 26	5 57.03	-17 53.4	1.187	1.945	23.9	17.6	1 26	5 58.34	+14 23.5	2.334	3.174	10.8	19.1
<b>405982</b>	2006 <i>SV</i> <sub>183</sub>		12 26.4	329°69	8°9/25.1	17	<b>181614</b>	2006 <i>WL</i> <sub>109</sub>		12 26.4	218°06	0°2/26.4	18
11 17	6 52.42	+40 52.4	1.617	2.393	18.0	20.6	11 17	6 49.61	+23 1.4	2.038	2.811	14.8	21.0
11 27	6 49.62	+42 15.6	1.532	2.380	15.2	20.3	11 27	6 45.51	+23 12.0	1.948	2.810	11.8	20.8
12 7	6 42.81	+43 32.3	1.465	2.367	12.2	20.1	12 7	6 38.83	+23 25.1	1.880	2.809	8.2	20.6
12 17	6 32.50	+44 32.7	1.422	2.356	9.7	20.0	12 17	6 30.12	+23 38.7	1.837	2.808	4.1	20.3
12 27	6 20.06	+45 7.5	1.403	2.345	9.0	19.9	12 27	6 20.29	+23 50.8	1.824	2.807	0.3	20.0
1 6	6 7.48	+45 12.0	1.410	2.334	10.6	20.0	1 6	6 10.51	+24 0.1	1.840	2.806	4.6	20.4
1 16	5 56.78	+44 47.4	1.440	2.325	13.5	20.1	1 16	6 1.90	+24 6.3	1.884	2.805	8.6	20.6
1 26	5 49.59	+44 0.5	1.492	2.316	16.7	20.3	1 26	5 55.40	+24 10.2	1.954	2.803	12.2	20.8
<b>389669</b>	2011 <i>PU</i> <sub>8</sub>		12 26.4	171°08	2°1/26.6	18	<b>339966</b>	2005 <i>UF</i> <sub>188</sub>		12 26.4	257°79	0°9/26.3	18
11 17	6 51.67	+17 1.9	2.242	2.997	14.2	22.6	11 17	6 52.72	+24 49.8	1.714	2.494	16.9	21.7
11 27	6 46.70	+16 54.8	2.152	3.001	11.3	22.4	11 27	6 48.75	+25 1.6	1.616	2.481	13.6	21.4
12 7	6 39.40	+16 52.8	2.083	3.004	8.0	22.2	12 7	6 41.56	+25 15.1	1.538	2.469	9.5	21.1
12 17	6 30.30	+16 55.7	2.042	3.007	4.4	22.0	12 17	6 31.68	+25 27.5	1.485	2.456	4.8	20.8
12 27	6 20.25	+17 2.9	2.030	3.009	2.1	21.9	12 27	6 20.21	+25 35.9	1.459	2.442	1.0	20.5
1 6	6 10.27	+17 13.7	2.048	3.010	4.7	22.1	1 6	6 8.63	+25 38.4	1.463	2.429	5.5	20.8
1 16	6 1.35	+17 27.3	2.096	3.011	8.3	22.3	1 16	5 58.43	+25 35.0	1.493	2.415	10.4	21.0
1 26	5 54.32	+17 43.4	2.171	3.011	11.5	22.5	1 26	5 50.87	+25 27.9	1.548	2.401	14.6	21.3
<b>283973</b>	2004 <i>RW</i> <sub>109</sub>		12 26.4	124°70	18°7/29.6	18	<b>373955</b>	2003 <i>WH</i> <sub>69</sub>		12 26.4	336°12	4°4/26.1	18
11 17	7 31.02	+61 2.2	1.257	1.957	25.7	20.4	11 17	6 46.99	+14 27.1	2.073	2.838	14.8	20.1
11 27	7 25.18	+62 43.3	1.204	1.964	23.6	20.3	11 27	6 43.21	+13 21.7	1.980	2.832	12.1	19.9
12 7	7 9.98	+63 58.7	1.164	1.972	21.4	20.1	12 7	6 37.11	+12 19.8	1.909	2.826	8.9	19.7
12 17	6 46.48	+64 26.4	1.139	1.979	19.6	20.1	12 17	6 29.22	+11 23.9	1.864	2.820	5.8	19.5
12 27	6 19.23	+63 47.2	1.132	1.986	18.7	20.0	12 27	6 20.38	+10 36.7	1.847	2.815	4.4	19.4
1 6	5 54.58	+61 58.5	1.145	1.992	19.0	20.1	1 6	6 11.62	+10 0.3	1.859	2.810	6.3	19.5
1 16	5 37.06	+59 15.5	1.178	1.998	20.4	20.2	1 16	6 3.91	+9 35.9	1.899	2.805	9.5	19.7
1 26	5 28.00	+56 2.0	1.230	2.004	22.4	20.3	1 26	5 58.08	+9 23.3	1.964	2.801	12.7	19.9
<b>359522</b>	2010 <i>RR</i> <sub>75</sub>		12 26.4	92°08	2°8/26.7	17	<b>172905</b>	2005 <i>GX</i> <sub>79</sub>		12 26.4	256°10	4°0/26.9	18
11 17	6 49.07	+15 45.3	1.970	2.737	15.4	21.8	11 17	6 50.96	+13 20.1	1.519	2.297	18.8	20.2
11 27	6 44.91	+15 28.8	1.889	2.745	12.4	21.6	11 27	6 47.43	+13 12.7	1.430	2.290	15.3	19.9
12 7	6 38.28	+15 18.8	1.830	2.753	8.8	21.4	12 7	6 40.68	+13 17.0	1.361	2.284	11.2	19.7
12 17	6 29.77	+15 15.7	1.796	2.760	5.1	21.2	12 17	6 31.25	+13 34.1	1.314	2.277	6.7	19.4
12 27	6 20.30	+15 19.4	1.791	2.768	2.8	21.1	12 27	6 20.25	+14 3.6	1.295	2.271	4.0	19.2
1 6	6 10.97	+15 29.2	1.815	2.776	5.3	21.2	1 6	6 9.17	+14 43.4	1.302	2.264	6.8	19.4
1 16	6 2.84	+15 44.3	1.867	2.784	9.0	21.5	1 16	5 59.50	+15 30.5	1.336	2.257	11.4	19.6
1 26	5 56.75	+16 3.8	1.944	2.791	12.4	21.7	1 26	5 52.51	+16 22.1	1.393	2.250	15.7	19.8
<b>484778</b>	2009 <i>BD</i> <sub>166</sub>		12 26.4	329°83	1°6/26.3	17	<b>257106</b>	2008 <i>GU</i> <sub>60</sub>		12 26.4	324°07	0°3/26.4	17
11 17	6 48.76	+26 44.2	1.494	2.292	18.1	21.9	11 17	6 49.18	+22 38.6	1.994	2.769	15.0	20.6
11 27	6 46.04	+26 51.7	1.404	2.281	14.6	21.6	11 27	6 45.27	+23 0.3	1.905	2.768	11.9	20.4
12 7	6 39.89	+26 58.9	1.335	2.270	10.2	21.4	12 7	6 38.74	+23 25.7	1.837	2.767	8.3	20.2
12 17	6 30.88	+27 2.6	1.288	2.259	5.3	21.1	12 17	6 30.11	+23 52.4	1.795	2.766	4.1	20.0
12 27	6 20.22	+26 59.9	1.267	2.249	1.6	20.8	12 27	6 20.33	+24 17.9	1.781	2.764	0.4	19.7
1 6	6 9.55	+26 49.2	1.273	2.240	6.0	21.0	1 6	6 10.56	+24 40.1	1.797	2.763	4.7	20.0
1 16	6 0.48	+26 31.8	1.305	2.232	11.1	21.3	1 16	6 1.95	+24 58.0	1.841	2.762	8.8	20.2
1 26	5 54.32	+26 10.5	1.360	2.224	15.6	21.6	1 26	5 55.49	+25 12.2	1.911	2.761	12.4	20.5
<b>141641</b>	2002 <i>JZ</i> <sub>55</sub>		12 26.4	186°56	0°2/26.4	18	<b>135426</b>	2001 <i>UD</i> <sub>106</sub>		12 26.4	176°09	1°9/26.2	18
11 17	6 55.29	+23 21.0	1.793	2.563	16.6	21.4	11 17	6 50.97	+27 11.1	2.106	2.875	14.5	20.6
11 27	6 50.40	+23 29.6	1.703	2.563	13.3	21.2	11 27	6 46.62	+27 39.0	2.016	2.876	11.5	20.4
12 7	6 42.43	+23 40.5	1.634	2.563	9.2	20.9	12 7	6 39.62	+28 7.3	1.949	2.876	8.1	20.2
12 17	6 31.98	+23 51.4	1.591	2.562	4.6	20.7	12 17	6 30.54	+28 32.7	1.909	2.877	4.3	20.0
12 27	6 20.16	+23 59.7	1.576	2.560	0.4	20.3	12 27	6 20.31	+28 51.9	1.897	2.877	1.9	19.8
1 6	6 8.39	+24 3.8	1.591	2.557	5.2	20.7	1 6	6 10.13	+29 3.2	1.914	2.877	4.9	20.0
1 16	5 58.07	+24 4.1	1.634	2.554	9.8	20.9	1 16	6 1.14	+29 6.4	1.961	2.877	8.7	20.2
1 26	5 50.30	+24 1.9	1.703	2.550	13.8	21.2	1 26	5 54.32	+29 3.3	2.033	2.877	12.0	20.5
<b>238705</b>	2005 <i>GY</i> <sub>9</sub>		12 26.4	252°21	1°6/26.6	18	<b>182360</b>	2001 <i>QU</i> <sub>115</sub>		12 26.4			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>457471</b>	2008 <i>UX</i> <sub>221</sub>	12 26.4 156°50		1.4/26.5 18			<b>172919</b>	2005 <i>GP</i> <sub>135</sub>	12 26.4 70°12		1.1/26.2 18		
11 17	6 47.61	+19 38.2	2.735	3.490	11.9	21.3	11 17	6 51.70	+23 4.8	1.781	2.559	16.4	20.2
11 27	6 43.07	+19 17.0	2.643	3.494	9.4	21.2	11 27	6 47.51	+23 49.6	1.705	2.570	13.0	20.0
12 7	6 36.67	+18 57.6	2.575	3.498	6.6	21.0	12 7	6 40.41	+24 39.2	1.652	2.582	9.0	19.8
12 17	6 28.90	+18 40.0	2.534	3.502	3.5	20.8	12 17	6 30.99	+25 29.8	1.623	2.594	4.5	19.5
12 27	6 20.43	+18 24.4	2.524	3.505	1.4	20.6	12 27	6 20.34	+26 17.0	1.624	2.606	1.1	19.3
1 6	6 12.07	+18 10.9	2.545	3.508	3.8	20.8	1 6	6 9.82	+26 57.4	1.653	2.618	5.2	19.6
1 16	6 4.55	+17 59.9	2.596	3.511	6.9	21.0	1 16	6 0.71	+27 29.5	1.710	2.630	9.4	19.9
1 26	5 58.55	+17 51.8	2.674	3.513	9.6	21.2	1 26	5 54.07	+27 54.0	1.792	2.642	13.1	20.1
<b>176260</b>	2001 <i>RQ</i> <sub>24</sub>	12 26.4 133°58		2.0/26.3 18			<b>514166</b>	2015 <i>MV</i> <sub>6</sub>	12 26.4 204°26		2.4/26.5 18		
11 17	6 52.47	+28 33.7	2.135	2.901	14.4	21.1	11 17	6 52.82	+17 25.6	2.060	2.819	15.1	22.5
11 27	6 47.65	+28 49.6	2.051	2.908	11.5	20.9	11 27	6 47.94	+17 4.9	1.963	2.814	12.2	22.2
12 7	6 40.23	+29 3.9	1.990	2.915	8.0	20.7	12 7	6 40.49	+16 48.5	1.887	2.809	8.7	22.0
12 17	6 30.78	+29 13.4	1.955	2.922	4.3	20.5	12 17	6 30.99	+16 36.6	1.837	2.803	4.8	21.8
12 27	6 20.32	+29 15.6	1.949	2.929	2.0	20.3	12 27	6 20.35	+16 29.3	1.817	2.796	2.4	21.6
1 6	6 10.01	+29 9.5	1.973	2.935	4.8	20.5	1 6	6 9.71	+16 26.4	1.827	2.788	5.2	21.8
1 16	6 0.98	+28 56.1	2.025	2.941	8.5	20.8	1 16	6 0.20	+16 28.0	1.865	2.780	9.1	22.0
1 26	5 54.14	+28 37.6	2.104	2.946	11.8	21.0	1 26	5 52.77	+16 33.9	1.930	2.771	12.7	22.2
<b>72053</b>	2000 <i>YX</i> <sub>7</sub>	12 26.4 83°58		4.5/25.9 18			<b>140315</b>	2001 <i>SG</i> <sub>321</sub>	12 26.4 29°73		0.9/26.3 18		
11 17	7 0.15	+30 37.7	1.433	2.214	19.6	19.2	11 17	6 49.32	+22 45.8	1.640	2.428	17.2	19.2
11 27	6 54.96	+31 39.7	1.376	2.239	15.7	19.0	11 27	6 45.92	+23 25.0	1.564	2.435	13.6	19.0
12 7	6 45.87	+32 39.8	1.338	2.263	11.2	18.8	12 7	6 39.46	+24 9.6	1.510	2.443	9.4	18.8
12 17	6 33.73	+33 30.3	1.325	2.288	6.7	18.6	12 17	6 30.57	+24 55.9	1.480	2.451	4.7	18.5
12 27	6 20.14	+34 4.1	1.339	2.312	4.6	18.6	12 27	6 20.38	+25 39.8	1.477	2.460	1.0	18.3
1 6	6 7.06	+34 18.2	1.380	2.336	7.4	18.8	1 6	6 10.29	+26 17.7	1.503	2.469	5.4	18.6
1 16	5 56.22	+34 14.5	1.447	2.359	11.5	19.1	1 16	6 1.69	+26 48.1	1.555	2.479	9.9	18.9
1 26	5 48.83	+33 58.4	1.538	2.381	15.3	19.4	1 26	5 55.65	+27 11.5	1.632	2.489	13.8	19.1
<b>447650</b>	2006 <i>VS</i> <sub>82</sub>	12 26.4 56°86		3.2/26.0 18			<b>516598</b>	2007 <i>HF</i> <sub>80</sub>	12 26.4 175°90		1.8/26.2 18		
11 17	6 51.61	+29 43.1	1.870	2.647	15.8	20.9	11 17	6 54.45	+26 19.5	2.087	2.850	14.8	22.4
11 27	6 47.52	+30 24.2	1.790	2.652	12.7	20.7	11 27	6 49.40	+26 53.7	1.997	2.853	11.8	22.2
12 7	6 40.45	+31 4.3	1.731	2.657	9.0	20.5	12 7	6 41.59	+27 29.2	1.929	2.855	8.2	22.0
12 17	6 31.01	+31 38.9	1.698	2.663	5.2	20.3	12 17	6 31.56	+28 2.5	1.888	2.856	4.3	21.7
12 27	6 20.30	+32 3.5	1.692	2.668	3.2	20.2	12 27	6 20.32	+28 29.8	1.876	2.857	1.8	21.6
1 6	6 9.70	+32 15.8	1.715	2.674	5.9	20.4	1 6	6 9.09	+28 48.8	1.894	2.857	5.0	21.8
1 16	6 0.54	+32 16.0	1.766	2.680	9.6	20.6	1 16	6 59.10	+28 59.1	1.942	2.856	8.8	22.0
1 26	5 53.87	+32 6.9	1.842	2.686	13.1	20.8	1 26	5 51.37	+29 2.4	2.016	2.855	12.3	22.2
<b>453949</b>	2011 <i>YU</i> <sub>65</sub>	12 26.4 344°75		4.4/27.1 17			<b>373324</b>	2012 <i>JW</i> <sub>19</sub>	12 26.4 128°25		0.3/26.4 18		
11 17	6 44.53	+12 11.8	1.508	2.297	18.4	21.1	11 17	6 48.41	+23 29.3	2.910	3.664	11.2	21.3
11 27	6 42.33	+12 4.4	1.421	2.287	15.1	20.9	11 27	6 43.63	+23 46.0	2.826	3.677	8.9	21.2
12 7	6 37.14	+12 9.9	1.354	2.279	11.1	20.6	12 7	6 37.04	+24 3.9	2.766	3.691	6.1	21.0
12 17	6 29.48	+12 30.0	1.309	2.271	6.9	20.4	12 17	6 29.10	+24 21.5	2.734	3.703	3.0	20.8
12 27	6 20.40	+13 4.5	1.289	2.264	4.4	20.2	12 27	6 20.48	+24 37.3	2.733	3.716	0.4	20.6
1 6	6 11.25	+13 51.4	1.296	2.258	6.9	20.3	1 6	6 11.96	+24 50.2	2.763	3.728	3.4	20.9
1 16	6 3.41	+14 47.2	1.329	2.253	11.2	20.6	1 16	6 4.27	+25 0.1	2.824	3.739	6.3	21.1
1 26	5 58.06	+15 48.0	1.384	2.249	15.3	20.8	1 26	5 58.06	+25 7.3	2.913	3.751	9.0	21.3
<b>117460</b>	2005 <i>AM</i> <sub>74</sub>	12 26.4 122°17		1.4/26.3 17			<b>328648</b>	2009 <i>SP</i> <sub>237</sub>	12 26.4 19°92		0.8/26.3 18		
11 17	6 49.55	+27 31.5	2.571	3.331	12.4	20.4	11 17	6 47.40	+22 10.7	1.639	2.430	17.1	19.7
11 27	6 44.84	+27 42.2	2.486	3.340	9.8	20.2	11 27	6 44.38	+22 52.8	1.565	2.438	13.5	19.5
12 7	6 38.02	+27 51.7	2.424	3.349	6.8	20.1	12 7	6 38.38	+23 40.9	1.513	2.447	9.3	19.3
12 17	6 29.61	+27 57.8	2.390	3.358	3.6	19.9	12 17	6 30.03	+24 31.4	1.484	2.456	4.7	19.0
12 27	6 20.42	+27 58.9	2.386	3.367	1.4	19.7	12 27	6 20.42	+25 20.3	1.484	2.467	0.9	18.8
1 6	6 11.35	+27 54.4	2.412	3.375	4.0	19.9	1 6	6 10.92	+26 3.7	1.511	2.478	5.3	19.1
1 16	6 3.30	+27 44.7	2.469	3.384	7.2	20.1	1 16	6 2.86	+26 39.8	1.565	2.490	9.7	19.4
1 26	5 57.01	+27 31.3	2.552	3.392	10.0	20.3	1 26	5 57.30	+27 8.6	1.643	2.502	13.6	19.7
<b>216176</b>	2006 <i>TP</i> <sub>21</sub>	12 26.4 77°13		2.5/26.6 18			<b>329639</b>	2003 <i>SZ</i> <sub>152</sub>	12 26.4 72°92		0.9/26.6 18		
11 17	6 49.31	+17 17.4	1.908	2.679	15.7	20.6	11 17	6 48.41	+19 9.1	2.191	2.957	14.1	20.8
11 27	6 45.22	+16 58.6	1.827	2.686	12.6	20.4	11 27	6 44.20	+19 23.1	2.113	2.971	11.2	20.6
12 7	6 38.59	+16 45.0	1.768	2.693	8.9	20.2	12 7	6 37.72	+19 42.0	2.058	2.985	7.7	20.4
12 17	6 29.99	+16 37.0	1.734	2.701	5.0	20.0	12 17	6 29.52	+20 4.6	2.029	2.998	4.0	20.2
12 27	6 20.39	+16 34.4	1.729	2.708	2.5	19.8	12 27	6 20.46	+20 29.2	2.030	3.012	1.0	20.0
1 6	6 10.95	+16 37.0	1.752	2.715	5.2	20.0	1 6	6 11.53	+20 54.1	2.060	3.026	4.2	20.3
1 16	6 2.76	+16 44.2	1.804	2.722	9.1	20.3	1 16	6 3.70	+21 18.3	2.120	3.040	7.9	20.5
1 26	5 56.69	+16 55.5	1.880	2.730	12.6	20.5	1 26	5 57.74	+21 41.3	2.206	3.054	11.1	20.7
<b>249987</b>	2001 <i>WK</i> <sub>51</sub>	12 26.4 92°85		0.2/26.4 18			<b>439598</b>	2014 <i>EZ</i> <sub>14</sub>	12 26.4 321°22		4.7/26.9 18		
11 17	6 51.25	+23 39.3	2.031	2.801	14.9	21.1	11 17	6 47.97	+12 32.7	1.473	2.258	19.0	21.3
11 27	6 46.63	+23 42.5	1.955	2.815	11.8	20.9	11 27	6 45.14	+12 13.7	1.386	2.249	15.6	21.0
12 7	6 39.47	+23 46.9	1.900	2.829	8.1	20.7	12 7	6 39.15	+12 6.3	1.318	2.241	11.5	20.8
12 17	6 30.39	+23 50.8	1.872	2.842	4.0	20.5	12 17	6 30.53	+12 12.7	1.272	2.233	7.2	20.5
12 27	6 20.37	+23 52.6	1.872	2.856	0.3	20.2	12 27	6 20.39	+12 33.4	1.252	2.226	4.7	20.3
1 6	6 10.57	+23 51.5	1.903	2.869	4.5	20.6	1 6	6 10.17	+13 7.1	1.259	2.219	7.3	20.5
1 16	6 2.07	+23 47.9	1.962	2.882	8.4	20.8	1 16	6 1.36	+13 51.0	1.291	2.212	11.7	20.7
1 26	5 55.71	+23 42.8	2.047	2.895	11.8	21.1	1 26	5 55.18	+14 42.0	1.346	2.206	15.9	20.9
<b>156886</b>	2003 <i>EW</i> <sub>11</sub>	12 26.4 213°56		0.0/26.4 18			<b>395976</b>	2013 <i>BC</i> <sub>21</sub>	12 26.4 168°14		2.1/26.2 18		
11 17	6 53.21	+23 19.3	1.958</										

EPHEMERIDES

12 26.4

12 26.4

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>414304</b>	2008 RA <sub>33</sub>		12 26.4	7°42'	2°8'/26.6	17	<b>220696</b>	2004 RA <sub>316</sub>		12 26.4	58°12'	4°7'/27.2	18
11 17	6 45.28	+16 49.4	1.802	2.585	16.1	20.6	11 17	6 47.20	+10 0.6	2.007	2.764	15.5	19.9
11 27	6 42.26	+16 25.8	1.721	2.587	12.9	20.4	11 27	6 43.34	+9 42.0	1.933	2.776	12.7	19.7
12 7	6 36.68	+16 7.8	1.661	2.589	9.2	20.2	12 7	6 37.17	+9 34.2	1.879	2.789	9.5	19.5
12 17	6 29.10	+15 56.4	1.625	2.592	5.2	20.0	12 17	6 29.27	+9 38.4	1.850	2.802	6.3	19.4
12 27	6 20.49	+15 51.8	1.617	2.595	2.8	19.8	12 27	6 20.50	+9 55.0	1.849	2.815	4.7	19.3
1 6	6 11.99	+15 53.9	1.636	2.600	5.5	20.0	1 6	6 11.89	+10 22.9	1.876	2.828	6.2	19.4
1 16	6 4.71	+16 2.0	1.683	2.605	9.4	20.2	1 16	6 4.39	+11 0.0	1.931	2.841	9.2	19.6
1 26	5 59.57	+16 15.4	1.754	2.610	13.0	20.5	1 26	5 58.80	+11 43.8	2.012	2.854	12.2	19.8
<b>391818</b>	2008 SZ <sub>29</sub>		12 26.4	9°73'	4°3'/26.6	18	<b>438642</b>	2008 CG <sub>89</sub>		12 26.4	280°76'	4°2'/26.2	18
11 17	6 48.70	+15 6.1	1.453	2.242	19.0	20.5	11 17	6 54.61	+31 33.6	1.463	2.252	18.9	21.3
11 27	6 45.59	+14 26.9	1.375	2.243	15.4	20.3	11 27	6 51.14	+32 4.0	1.372	2.240	15.4	21.0
12 7	6 39.32	+13 55.3	1.317	2.244	11.2	20.0	12 7	6 43.75	+32 31.6	1.300	2.228	11.2	20.7
12 17	6 30.53	+13 33.5	1.282	2.245	6.8	19.8	12 17	6 33.00	+32 50.3	1.252	2.217	6.7	20.4
12 27	6 20.40	+13 22.7	1.272	2.247	4.3	19.7	12 27	6 20.26	+32 54.1	1.229	2.205	4.3	20.2
1 6	6 10.41	+13 23.4	1.290	2.250	7.1	19.8	1 6	6 7.45	+32 40.2	1.233	2.193	7.4	20.4
1 16	6 1.97	+13 34.8	1.332	2.253	11.4	20.1	1 16	5 56.48	+32 10.4	1.262	2.181	12.2	20.6
1 26	5 56.20	+13 55.2	1.397	2.257	15.6	20.3	1 26	5 48.87	+31 30.3	1.314	2.169	16.6	20.9
<b>266875</b>	2009 VS <sub>38</sub>		12 26.4	30°18'	0°5'/26.4	17	<b>261166</b>	2005 TJ <sub>103</sub>		12 26.4	339°00'	3°9'/26.5	17
11 17	6 48.61	+25 0.3	2.084	2.859	14.5	20.5	11 17	6 47.17	+15 9.6	1.849	2.624	16.0	20.5
11 27	6 44.63	+25 0.1	1.999	2.862	11.5	20.3	11 27	6 43.72	+14 27.4	1.760	2.619	13.0	20.3
12 7	6 38.17	+25 0.1	1.936	2.866	7.9	20.1	12 7	6 37.69	+13 50.5	1.692	2.614	9.5	20.1
12 17	6 29.80	+24 58.4	1.899	2.870	4.0	19.8	12 17	6 29.64	+13 20.7	1.649	2.610	5.8	19.8
12 27	6 20.45	+24 53.7	1.891	2.874	0.6	19.6	12 27	6 20.49	+12 59.7	1.633	2.606	3.9	19.7
1 6	6 11.24	+24 45.4	1.912	2.878	4.4	19.9	1 6	6 11.39	+12 48.2	1.645	2.603	6.2	19.8
1 16	6 3.21	+24 34.3	1.961	2.882	8.3	20.1	1 16	6 3.48	+12 46.4	1.685	2.600	9.9	20.0
1 26	5 57.24	+24 21.6	2.036	2.887	11.7	20.4	1 26	5 57.68	+12 53.4	1.748	2.597	13.4	20.3
<b>305200</b>	2007 VY <sub>334</sub>		12 26.4	79°14'	3°4'/26.2	18	<b>15654</b>	1176 T <sub>-1</sub>		12 26.4	256°42'	2°6'/26.7	18
11 17	6 53.03	+31 6.6	1.850	2.624	16.0	20.7	11 17	6 46.06	+15 12.4	2.560	3.315	12.6	18.7
11 27	6 48.66	+31 37.7	1.771	2.631	12.9	20.5	11 27	6 42.11	+14 56.3	2.458	3.306	10.1	18.5
12 7	6 41.24	+32 5.9	1.714	2.638	9.2	20.3	12 7	6 36.22	+14 45.4	2.379	3.297	7.3	18.3
12 17	6 31.41	+32 26.6	1.682	2.646	5.4	20.1	12 17	6 28.80	+14 40.0	2.327	3.289	4.3	18.1
12 27	6 20.35	+32 36.0	1.678	2.653	3.4	20.0	12 27	6 20.54	+14 40.4	2.304	3.280	2.6	18.0
1 6	6 9.48	+32 32.2	1.702	2.661	6.0	20.1	1 6	6 12.27	+14 46.3	2.312	3.271	4.5	18.1
1 16	6 0.15	+32 16.7	1.754	2.668	9.7	20.4	1 16	6 4.80	+14 57.3	2.348	3.261	7.6	18.3
1 26	5 53.40	+31 52.8	1.831	2.675	13.1	20.6	1 26	5 58.85	+15 12.6	2.412	3.252	10.5	18.4
<b>507881</b>	2014 MK <sub>57</sub>		12 26.4	203°92'	9°2'/27.8	17	<b>130131</b>	1999 XC <sub>133</sub>		12 26.4	71°02'	5°8'/25.7	18
11 17	7 10.98	+44 7.8	1.238	2.003	23.0	21.5	11 17	6 57.12	+34 28.7	1.699	2.470	17.4	19.0
11 27	7 5.35	+44 19.1	1.160	2.001	19.5	21.2	11 27	6 52.29	+35 44.7	1.638	2.492	14.1	18.9
12 7	6 54.05	+44 11.3	1.098	2.000	15.4	21.0	12 7	6 43.94	+36 56.5	1.598	2.514	10.4	18.7
12 17	6 38.11	+43 31.5	1.057	1.998	11.3	20.7	12 17	6 32.82	+37 56.1	1.583	2.535	7.1	18.5
12 27	6 19.95	+42 10.9	1.040	1.996	9.2	20.6	12 27	6 20.31	+38 36.8	1.595	2.557	5.8	18.5
1 6	6 2.71	+40 10.9	1.048	1.993	10.8	20.7	1 6	6 8.10	+38 55.4	1.635	2.578	7.8	18.7
1 16	5 49.03	+37 44.2	1.082	1.990	14.8	20.9	1 16	5 57.78	+38 53.6	1.702	2.600	11.0	18.9
1 26	5 40.42	+35 8.5	1.139	1.987	19.1	21.1	1 26	5 50.52	+38 36.4	1.792	2.621	14.1	19.2
<b>72451</b>	2001 DW <sub>5</sub>		12 26.4	181°39'	4°1'/25.9	18	<b>425141</b>	2009 SK <sub>266</sub>		12 26.4	133°01'	0°0'/26.4	18
11 17	6 51.78	+34 25.1	2.424	3.180	13.2	19.6	11 17	6 56.06	+23 26.9	1.815	2.583	16.5	21.3
11 27	6 47.13	+35 10.4	2.334	3.180	10.7	19.4	11 27	6 50.75	+23 25.7	1.737	2.596	13.1	21.1
12 7	6 39.93	+35 52.2	2.267	3.180	7.9	19.2	12 7	6 42.51	+23 26.0	1.681	2.609	9.1	20.9
12 17	6 30.72	+36 25.8	2.227	3.180	5.2	19.1	12 17	6 32.00	+23 25.5	1.650	2.621	4.5	20.7
12 27	6 20.40	+36 47.5	2.216	3.180	4.1	19.0	12 27	6 20.37	+23 22.7	1.649	2.632	0.3	20.4
1 6	6 10.10	+36 55.2	2.234	3.180	5.8	19.1	1 6	6 9.00	+23 16.6	1.677	2.643	5.0	20.8
1 16	6 0.93	+36 49.3	2.281	3.179	8.5	19.3	1 16	5 59.16	+23 8.2	1.733	2.653	9.3	21.0
1 26	5 53.83	+36 32.7	2.354	3.178	11.3	19.5	1 26	5 51.85	+22 59.1	1.815	2.662	13.1	21.3
<b>208299</b>	2001 FQ <sub>66</sub>		12 26.4	291°47'	14°6'/27.6	18	<b>520256</b>	2014 EG <sub>38</sub>		12 26.4	255°38'	2°4'/26.1	18
11 17	6 46.54	-12 34.0	1.862	2.531	19.3	20.0	11 17	6 53.28	+27 15.2	1.840	2.614	16.1	22.0
11 27	6 43.32	-14 8.5	1.778	2.517	17.8	19.9	11 27	6 49.16	+27 53.7	1.738	2.600	13.0	21.7
12 7	6 37.52	-15 20.8	1.711	2.502	16.3	19.7	12 7	6 41.89	+28 34.4	1.658	2.586	9.2	21.5
12 17	6 29.61	-16 2.5	1.662	2.487	15.1	19.6	12 17	6 31.95	+29 12.8	1.604	2.572	5.0	21.2
12 27	6 20.46	-16 7.0	1.633	2.473	14.6	19.6	12 27	6 20.36	+29 44.2	1.577	2.557	2.5	21.0
1 6	6 11.19	-15 31.8	1.626	2.458	15.1	19.5	1 6	6 8.57	+30 5.2	1.580	2.541	5.8	21.2
1 16	6 2.96	-14 19.0	1.640	2.444	16.3	19.6	1 16	5 58.06	+30 15.1	1.610	2.526	10.2	21.4
1 26	5 56.77	-12 34.9	1.674	2.430	18.0	19.7	1 26	5 50.10	+30 15.9	1.665	2.510	14.2	21.6
<b>203171</b>	2000 YU <sub>48</sub>		12 26.4	12°72'	0°3'/26.4	18	<b>116302</b>	2003 YH <sub>61</sub>		12 26.4	278°21'	0°7'/26.5	18
11 17	6 48.57	+22 37.8	1.382	2.185	19.1	19.5	11 17	6 46.76	+20 50.1	2.452	3.217	12.8	20.0
11 27	6 45.89	+22 55.1	1.308	2.187	15.2	19.2	11 27	6 42.88	+20 52.1	2.349	3.206	10.2	19.8
12 7	6 39.76	+23 17.2	1.253	2.190	10.6	19.0	12 7	6 36.87	+20 56.9	2.268	3.195	7.1	19.6
12 17	6 30.83	+23 41.4	1.221	2.194	5.3	18.7	12 17	6 29.18	+21 3.8	2.215	3.184	3.6	19.4
12 27	6 20.40	+24 4.3	1.215	2.199	0.5	18.3	12 27	6 20.54	+21 11.6	2.190	3.173	0.7	19.1
1 6	6 10.11	+24 23.4	1.236	2.204	5.9	18.7	1 6	6 11.87	+21 19.6	2.196	3.162	4.0	19.4
1 16	6 1.54	+24 37.8	1.281	2.210	11.0	19.0	1 16	6 4.05	+21 27.3	2.232	3.151	7.6	19.6
1 26	5 55.92	+24 48.4	1.350	2.217	15.5	19.3	1 26	5 57.90	+21 34.9	2.294	3.140	10.7	19.8
<b>222012</b>	1998 RY <sub>2</sub>		12 26.4	156°84'	0°6'/26.5	18	<b>329088</b>	2011 BC <sub>56</sub>		12 26.4	356°21'	0°2'/26.4	17
11 17	6 48.51	+21 5.5	2.510										

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12 26.4

12 26.5

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>191524</b>	2003 UN <sub>177</sub>		12 26.4	99°62	4.8/27.1	18	<b>287457</b>	2002 YH <sub>21</sub>		12 26.5	18°51	1.1/26.2	18
11 17	6 46.73	+ 8 9.9	2.452	3.190	13.5	20.4	11 17	6 49.07	+21 6.1	1.476	2.271	18.5	19.6
11 27	6 42.50	+ 7 42.1	2.373	3.203	11.1	20.3	11 27	6 46.16	+22 11.9	1.402	2.277	14.7	19.3
12 7	6 36.37	+ 7 23.6	2.317	3.216	8.5	20.1	12 7	6 39.93	+23 27.4	1.348	2.283	10.2	19.1
12 17	6 28.82	+ 7 16.2	2.286	3.229	6.0	20.0	12 17	6 30.98	+24 48.0	1.319	2.291	5.1	18.8
12 27	6 20.58	+ 7 20.6	2.285	3.241	4.8	20.0	12 27	6 20.50	+26 6.9	1.316	2.299	1.2	18.6
1 6	6 12.47	+ 7 36.6	2.312	3.254	5.9	20.0	1 6	6 10.05	+27 18.2	1.342	2.308	5.9	18.9
1 16	6 5.25	+ 8 2.7	2.368	3.266	8.3	20.2	1 16	6 1.18	+28 18.3	1.393	2.318	10.7	19.2
1 26	5 59.61	+ 8 36.9	2.450	3.278	10.8	20.4	1 26	5 55.11	+29 6.6	1.469	2.329	14.9	19.5
<b>379739</b>	2011 GW <sub>63</sub>		12 26.4	256°36	4.4/26.4	18	<b>195693</b>	2002 PC <sub>12</sub>		12 26.5	113°05	1.9/26.7	18
11 17	6 46.49	+10 44.8	2.675	3.416	12.4	21.2	11 17	6 47.80	+16 54.5	2.561	3.315	12.6	21.2
11 27	6 42.34	+ 9 56.7	2.569	3.403	10.2	21.1	11 27	6 43.33	+16 45.2	2.479	3.328	10.0	21.0
12 7	6 36.32	+ 9 13.8	2.486	3.389	7.8	20.9	12 7	6 36.95	+16 40.4	2.420	3.340	7.1	20.9
12 17	6 28.85	+ 8 38.3	2.429	3.375	5.4	20.7	12 17	6 29.14	+16 39.9	2.388	3.352	3.9	20.7
12 27	6 20.59	+ 8 12.0	2.402	3.361	4.4	20.6	12 27	6 20.63	+16 43.5	2.385	3.364	1.9	20.6
1 6	6 12.29	+ 7 55.8	2.405	3.347	5.7	20.7	1 6	6 12.23	+16 50.6	2.414	3.376	4.1	20.7
1 16	6 4.73	+ 7 49.9	2.436	3.332	8.2	20.8	1 16	6 4.76	+17 0.7	2.472	3.387	7.2	20.9
1 26	5 58.60	+ 7 53.8	2.494	3.317	10.8	21.0	1 26	5 58.85	+17 13.5	2.557	3.398	10.0	21.1
<b>359813</b>	2011 UC <sub>266</sub>		12 26.4	83°75	2.3/26.6	18	<b>194908</b>	2002 AV <sub>107</sub>		12 26.5	36°00	1.1/26.6	18
11 17	6 50.14	+18 13.5	1.867	2.640	16.0	20.9	11 17	6 50.28	+19 43.0	1.466	2.259	18.7	19.9
11 27	6 45.97	+17 50.8	1.787	2.647	12.8	20.7	11 27	6 46.94	+19 49.7	1.392	2.264	14.9	19.6
12 7	6 39.17	+17 32.4	1.728	2.654	9.0	20.5	12 7	6 40.33	+20 2.9	1.338	2.271	10.4	19.4
12 17	6 30.35	+17 18.6	1.694	2.661	4.9	20.3	12 17	6 31.11	+20 21.4	1.307	2.278	5.3	19.1
12 27	6 20.51	+17 9.5	1.688	2.668	2.3	20.1	12 27	6 20.50	+20 42.7	1.302	2.285	1.2	18.8
1 6	6 10.83	+17 5.0	1.711	2.675	5.3	20.3	1 6	6 10.06	+21 4.6	1.324	2.292	5.7	19.2
1 16	6 2.45	+17 5.0	1.762	2.682	9.2	20.6	1 16	6 1.26	+21 25.9	1.373	2.300	10.6	19.5
1 26	5 56.27	+17 9.4	1.838	2.689	12.8	20.8	1 26	5 55.23	+21 46.4	1.445	2.308	14.9	19.7
<b>117593</b>	2005 EC <sub>52</sub>		12 26.4	292°36	1.3/26.6	18	<b>352193</b>	2007 RM <sub>243</sub>		12 26.5	77°29	1.9/26.2	18
11 17	6 46.39	+18 21.6	2.347	3.112	13.3	19.7	11 17	6 54.93	+26 12.4	1.740	2.515	16.9	20.8
11 27	6 42.69	+18 28.1	2.245	3.101	10.6	19.5	11 27	6 50.01	+26 47.4	1.677	2.539	13.3	20.6
12 7	6 36.80	+18 39.7	2.165	3.091	7.5	19.3	12 7	6 42.06	+27 23.4	1.634	2.563	9.2	20.4
12 17	6 29.18	+18 55.7	2.112	3.080	4.0	19.0	12 17	6 31.81	+27 56.1	1.617	2.586	4.8	20.2
12 27	6 20.58	+19 15.0	2.088	3.070	1.3	18.8	12 27	6 20.47	+28 21.5	1.629	2.610	1.9	20.1
1 6	6 11.91	+19 36.5	2.094	3.059	4.2	19.0	1 6	6 9.48	+28 37.6	1.670	2.633	5.3	20.4
1 16	6 4.11	+19 58.9	2.129	3.049	7.8	19.2	1 16	6 0.13	+28 44.7	1.738	2.656	9.4	20.6
1 26	5 58.01	+20 21.8	2.191	3.039	11.1	19.4	1 26	5 53.41	+28 44.9	1.831	2.679	13.0	20.9
<b>251991</b>	2000 ET <sub>52</sub>		12 26.4	109°82	3.4/26.8	18	<b>47371</b>	1999 XJ <sub>90</sub>		12 26.5	317°14	0.5/26.4	18
11 17	6 49.19	+14 21.5	1.930	2.695	15.8	20.9	11 17	6 46.70	+23 27.3	1.853	2.638	15.6	18.4
11 27	6 45.15	+14 5.2	1.846	2.699	12.7	20.7	11 27	6 43.91	+23 42.0	1.740	2.610	12.6	18.1
12 7	6 38.60	+13 56.6	1.783	2.703	9.2	20.5	12 7	6 38.27	+24 0.1	1.649	2.581	8.8	17.8
12 17	6 30.08	+13 56.4	1.746	2.707	5.5	20.3	12 17	6 30.18	+24 19.6	1.582	2.553	4.5	17.5
12 27	6 20.54	+14 4.6	1.736	2.711	3.4	20.2	12 27	6 20.55	+24 38.0	1.543	2.526	0.6	17.2
1 6	6 11.08	+14 20.6	1.755	2.715	5.6	20.3	1 6	6 10.63	+24 53.1	1.532	2.499	5.2	17.4
1 16	6 2.80	+14 43.0	1.803	2.719	9.3	20.6	1 16	6 1.75	+25 4.0	1.548	2.473	9.8	17.7
1 26	5 56.59	+15 10.4	1.875	2.723	12.7	20.8	1 26	5 55.14	+25 11.4	1.588	2.447	14.0	17.8
<b>494591</b>	2017 BD <sub>94</sub>		12 26.4	13°69	11.1/25.5	17	<b>194486</b>	2001 WN <sub>47</sub>		12 26.5	9°29	6.2/26.3	18
11 17	6 55.79	+44 34.4	1.435	2.207	20.0	20.6	11 17	6 51.77	+34 51.7	1.287	2.089	20.3	19.2
11 27	6 52.97	+46 13.6	1.370	2.210	17.1	20.4	11 27	6 49.27	+35 36.8	1.217	2.090	16.6	18.9
12 7	6 45.49	+47 41.1	1.324	2.214	14.2	20.2	12 7	6 42.59	+36 15.8	1.165	2.092	12.3	18.7
12 17	6 34.01	+48 44.9	1.299	2.218	11.9	20.1	12 17	6 32.44	+36 40.5	1.135	2.095	8.2	18.5
12 27	6 20.29	+49 14.6	1.297	2.224	11.1	20.1	12 27	6 20.44	+36 44.2	1.130	2.099	6.2	18.4
1 6	6 6.80	+49 6.1	1.319	2.230	12.4	20.2	1 6	6 8.73	+36 24.5	1.149	2.104	8.7	18.5
1 16	5 55.87	+48 23.6	1.364	2.237	14.9	20.4	1 16	5 59.27	+35 44.8	1.192	2.109	12.9	18.8
1 26	5 49.12	+47 16.6	1.429	2.245	17.7	20.6	1 26	5 53.47	+34 52.4	1.257	2.116	16.9	19.0
<b>474360</b>	2002 QV <sub>121</sub>		12 26.4	49°28	3.9/26.8	16	<b>83963</b>	2001 XM <sub>202</sub>		12 26.5	140°93	4.1/26.9	18 R
11 17	6 52.73	+15 40.0	1.181	1.981	21.9	21.4	11 17	6 48.98	+11 2.5	2.357	3.101	13.8	20.1
11 27	6 49.07	+15 15.1	1.131	2.004	17.5	21.2	11 27	6 44.41	+10 35.5	2.272	3.110	11.3	19.9
12 7	6 41.76	+15 0.8	1.098	2.029	12.4	21.0	12 7	6 37.78	+10 16.2	2.211	3.118	8.4	19.8
12 17	6 31.70	+14 58.1	1.087	2.053	7.1	20.8	12 17	6 29.59	+10 6.1	2.175	3.126	5.6	19.6
12 27	6 20.46	+15 6.5	1.101	2.079	3.9	20.7	12 27	6 20.62	+10 5.9	2.169	3.134	4.1	19.5
1 6	6 9.80	+15 24.2	1.140	2.104	7.1	20.9	1 6	6 11.76	+10 15.4	2.192	3.141	5.6	19.6
1 16	6 1.25	+15 49.3	1.204	2.130	11.9	21.3	1 16	6 3.85	+10 33.7	2.244	3.148	8.4	19.8
1 26	5 55.88	+16 19.3	1.291	2.156	16.2	21.6	1 26	5 57.64	+10 59.1	2.323	3.154	11.2	20.0
<b>163954</b>	2003 UA <sub>37</sub>		12 26.5	128°54	7.3/25.9	18	<b>306770</b>	2001 BU <sub>4</sub>		12 26.5	293°71	2.2/26.2	18
11 17	6 59.61	+41 52.4	2.022	2.765	15.8	20.1	11 17	6 51.01	+26 36.6	1.728	2.512	16.7	20.5
11 27	6 54.16	+42 55.1	1.947	2.775	13.3	19.9	11 27	6 47.71	+27 8.5	1.619	2.487	13.5	20.2
12 7	6 45.23	+43 48.8	1.894	2.785	10.5	19.8	12 7	6 41.15	+27 43.1	1.531	2.461	9.6	19.9
12 17	6 33.51	+44 25.8	1.865	2.794	8.2	19.7	12 17	6 31.74	+28 16.6	1.467	2.436	5.1	19.6
12 27	6 20.35	+44 39.9	1.864	2.803	7.3	19.6	12 27	6 20.48	+28 44.2	1.430	2.411	2.2	19.3
1 6	6 7.42	+44 28.9	1.890	2.811	8.6	19.7	1 6	6 8.84	+29 2.7	1.421	2.385	6.0	19.5
1 16	5 56.31	+43 55.5	1.943	2.819	11.0	19.9	1 16	5 58.43	+29 10.9	1.439	2.360	10.8	19.7
1 26	5 48.20	+43 5.9	2.020	2.827	13.6	20.1	1 26	5 50.65	+29 10.6	1.481	2.334	15.2	19.9
<b>84623</b>	2002 VU <sub>44</sub>		12 26.5	210°66	3.0/25.8	18	<b>406734</b>	2008 GE <sub>114</sub>		12 26.5	186°85	0.8/26.5	17
11 17	6 52.27	+27 53.5	1.951										

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>450881</b>	2008 AA <sub>52</sub>		12 26.5	27°59	3°0/26.7	17	<b>471965</b>	2013 TU <sub>34</sub>		12 26.5	93°19	1°4/26.4	18
11 17	6 53.55	+32 19.5	1.505	2.293	18.5	21.0	11 17	6 58.28	+25 1.2	1.465	2.246	19.2	22.1
11 27	6 49.58	+32 5.2	1.434	2.301	14.8	20.8	11 27	6 53.19	+25 25.7	1.402	2.268	15.2	21.9
12 7	6 42.09	+31 43.2	1.382	2.311	10.5	20.6	12 7	6 44.54	+25 52.2	1.359	2.290	10.5	21.6
12 17	6 31.91	+31 9.9	1.354	2.321	5.9	20.4	12 17	6 33.14	+26 16.4	1.341	2.311	5.3	21.4
12 27	6 20.49	+30 23.7	1.352	2.331	3.0	20.2	12 27	6 20.45	+26 34.1	1.349	2.332	1.4	21.2
1 6	6 9.55	+29 26.0	1.378	2.343	6.1	20.4	1 6	6 8.20	+26 43.2	1.386	2.352	5.9	21.5
1 16	6 0.59	+28 21.7	1.431	2.354	10.6	20.7	1 16	5 57.96	+26 44.6	1.450	2.372	10.6	21.9
1 26	5 54.68	+27 16.3	1.507	2.367	14.6	21.0	1 26	5 50.84	+26 40.7	1.538	2.391	14.7	22.2
<b>401780</b>	2014 ET <sub>19</sub>		12 26.5	166°45	0°3/26.5	18	<b>219998</b>	2002 PG <sub>23</sub>		12 26.5	75°50	4°8/27.0	18
11 17	6 52.86	+21 28.1	2.152	2.913	14.5	21.6	11 17	6 52.63	+12 38.6	1.426	2.205	19.8	20.5
11 27	6 47.91	+21 39.2	2.063	2.918	11.5	21.4	11 27	6 48.56	+12 14.5	1.362	2.221	16.0	20.3
12 7	6 40.44	+21 53.7	1.996	2.922	8.0	21.2	12 7	6 41.27	+12 2.2	1.316	2.237	11.7	20.1
12 17	6 31.02	+22 9.7	1.956	2.926	4.0	21.0	12 17	6 31.51	+12 3.3	1.293	2.253	7.3	19.9
12 27	6 20.54	+22 25.3	1.945	2.929	0.4	20.7	12 27	6 20.54	+12 17.9	1.297	2.270	4.8	19.8
1 6	6 10.13	+22 39.2	1.965	2.931	4.4	21.0	1 6	6 9.90	+12 44.4	1.327	2.286	7.2	19.9
1 16	6 0.86	+22 50.8	2.015	2.933	8.3	21.2	1 16	6 0.97	+13 20.2	1.384	2.302	11.3	20.2
1 26	5 53.65	+23 0.6	2.090	2.934	11.8	21.5	1 26	5 54.80	+14 2.3	1.463	2.318	15.2	20.5
<b>272024</b>	2005 ET <sub>46</sub>		12 26.5	291°24	5°9/27.1	18	<b>170439</b>	2003 UT <sub>132</sub>		12 26.5	17°67	4°1/26.3	18
11 17	6 45.33	+ 6 10.8	2.336	3.075	14.1	21.0	11 17	6 49.28	+30 35.8	1.277	2.086	20.1	19.5
11 27	6 41.82	+ 5 38.9	2.228	3.055	11.8	20.8	11 27	6 46.96	+31 11.2	1.213	2.093	16.1	19.3
12 7	6 36.23	+ 5 17.3	2.141	3.035	9.3	20.6	12 7	6 40.76	+31 43.8	1.167	2.101	11.5	19.1
12 17	6 28.95	+ 5 8.8	2.079	3.015	7.0	20.4	12 17	6 31.45	+32 7.7	1.143	2.111	6.7	18.8
12 27	6 20.67	+ 5 15.1	2.044	2.995	5.9	20.3	12 27	6 20.55	+32 17.4	1.144	2.121	4.2	18.7
1 6	6 12.26	+ 5 36.5	2.038	2.975	7.0	20.3	1 6	6 9.98	+32 11.0	1.171	2.133	7.3	18.9
1 16	6 4.62	+ 6 11.8	2.060	2.955	9.5	20.4	1 16	6 1.51	+31 50.6	1.221	2.146	11.9	19.2
1 26	5 58.57	+ 6 58.3	2.107	2.935	12.3	20.6	1 26	5 56.38	+31 21.1	1.294	2.160	16.1	19.5
<b>42510</b>	1993 FX <sub>55</sub>		12 26.5	159°92	2°7/26.1	18	<b>176419</b>	2001 VM <sub>16</sub>		12 26.5	13°26	3°6/26.2	17
11 17	6 54.39	+29 44.6	2.278	3.035	13.9	20.2	11 17	6 51.66	+31 38.4	1.899	2.674	15.7	19.7
11 27	6 49.17	+30 19.2	2.190	3.042	11.1	20.0	11 27	6 47.65	+32 10.9	1.815	2.675	12.6	19.5
12 7	6 41.34	+30 52.4	2.126	3.047	7.9	19.8	12 7	6 40.64	+32 40.6	1.752	2.675	9.1	19.3
12 17	6 31.48	+31 20.5	2.089	3.053	4.5	19.6	12 17	6 31.24	+33 2.8	1.714	2.676	5.5	19.1
12 27	6 20.53	+31 39.7	2.081	3.057	2.7	19.5	12 27	6 20.56	+33 13.5	1.703	2.678	3.6	18.9
1 6	6 9.65	+31 48.4	2.104	3.061	5.0	19.7	1 6	6 9.97	+33 10.8	1.722	2.679	6.0	19.1
1 16	5 59.98	+31 46.9	2.156	3.065	8.4	19.9	1 16	6 0.82	+32 55.7	1.767	2.680	9.7	19.3
1 26	5 52.45	+31 37.4	2.234	3.068	11.5	20.1	1 26	5 54.17	+32 31.7	1.838	2.682	13.1	19.5
<b>205427</b>	2001 HM <sub>17</sub>		12 26.5	287°05	1°2/26.5	18	<b>40460</b>	1999 RV <sub>43</sub>		12 26.5	73°11	5°8/27.2	18
11 17	6 49.66	+20 22.1	1.794	2.573	16.3	21.2	11 17	6 49.95	+ 8 56.3	1.705	2.465	17.7	19.1
11 27	6 46.02	+20 14.6	1.699	2.564	13.1	21.0	11 27	6 45.90	+ 8 24.9	1.636	2.480	14.6	19.0
12 7	6 39.53	+20 10.9	1.625	2.555	9.2	20.7	12 7	6 39.17	+ 8 6.2	1.586	2.495	11.0	18.8
12 17	6 30.71	+20 10.2	1.576	2.546	4.8	20.4	12 17	6 30.40	+ 8 2.5	1.561	2.510	7.6	18.6
12 27	6 20.57	+20 11.7	1.554	2.537	1.2	20.2	12 27	6 20.62	+ 8 14.9	1.562	2.524	5.8	18.5
1 6	6 10.38	+20 14.3	1.561	2.527	5.2	20.4	1 6	6 11.07	+ 8 42.3	1.591	2.539	7.4	18.7
1 16	6 1.45	+20 18.1	1.595	2.518	9.7	20.7	1 16	6 2.88	+ 9 22.1	1.646	2.554	10.6	18.9
1 26	5 54.84	+20 23.3	1.654	2.509	13.7	20.9	1 26	5 56.96	+10 10.8	1.726	2.569	13.9	19.1
<b>517295</b>	2014 HD <sub>14</sub>		12 26.5	189°20	2°5/26.2	18	<b>374214</b>	2005 EC <sub>277</sub>		12 26.5	266°10	4°7/26.8	18
11 17	6 54.11	+29 12.2	2.208	2.968	14.2	23.0	11 17	6 45.45	+ 8 58.8	2.599	3.339	12.8	21.7
11 27	6 49.10	+29 44.4	2.114	2.967	11.4	22.8	11 27	6 41.62	+ 8 25.1	2.494	3.326	10.6	21.6
12 7	6 41.41	+30 15.8	2.043	2.966	8.1	22.6	12 7	6 35.92	+ 7 59.0	2.412	3.313	8.1	21.4
12 17	6 31.56	+30 42.5	1.999	2.964	4.5	22.4	12 17	6 28.73	+ 7 42.3	2.356	3.299	5.8	21.2
12 27	6 20.52	+31 1.0	1.984	2.962	2.6	22.2	12 27	6 20.72	+ 7 36.6	2.329	3.286	4.7	21.1
1 6	6 9.49	+31 9.1	2.000	2.959	5.1	22.4	1 6	6 12.66	+ 7 42.0	2.331	3.272	5.9	21.2
1 16	5 59.65	+31 7.2	2.044	2.955	8.7	22.6	1 16	6 5.33	+ 7 58.1	2.361	3.259	8.3	21.3
1 26	5 52.00	+30 57.5	2.115	2.951	11.9	22.8	1 26	5 59.44	+ 8 23.3	2.418	3.245	10.9	21.5
<b>77911</b>	2001 TB <sub>239</sub>		12 26.5	321°65	0°2/26.4	18	<b>239414</b>	2007 TG <sub>74</sub>		12 26.5	109°75	6°9/26.9	18
11 17	6 46.15	+21 19.3	2.094	2.871	14.3	17.9	11 17	6 50.47	+ 6 6.9	2.015	2.752	16.1	20.2
11 27	6 42.98	+21 50.9	1.989	2.853	11.5	17.7	11 27	6 45.84	+ 5 5.5	1.942	2.767	13.4	20.0
12 7	6 37.33	+22 28.3	1.906	2.836	8.0	17.4	12 7	6 38.88	+ 4 15.3	1.891	2.781	10.5	19.9
12 17	6 29.60	+23 9.3	1.848	2.819	4.0	17.2	12 17	6 30.19	+ 3 39.9	1.864	2.795	8.0	19.7
12 27	6 20.63	+23 51.4	1.820	2.803	0.3	16.8	12 27	6 20.66	+ 3 21.9	1.865	2.809	6.9	19.7
1 6	6 11.48	+24 31.5	1.820	2.787	4.6	17.1	1 6	6 11.33	+ 3 21.9	1.893	2.822	8.0	19.8
1 16	6 3.26	+25 7.9	1.849	2.772	8.7	17.3	1 16	6 3.17	+ 3 38.7	1.949	2.835	10.4	20.0
1 26	5 56.99	+25 39.8	1.904	2.757	12.3	17.5	1 26	5 56.95	+ 4 9.2	2.030	2.848	13.1	20.2
<b>119342</b>	2001 SZ <sub>172</sub>		12 26.5	315°31	3°5/26.0	18	<b>238123</b>	2003 OU <sub>28</sub>		12 26.5	124°83	3°1/26.3	18
11 17	6 50.45	+28 16.3	1.414	2.213	18.9	19.0	11 17	6 54.48	+30 35.2	1.824	2.597	16.3	20.4
11 27	6 47.94	+29 2.2	1.323	2.199	15.3	18.8	11 27	6 49.90	+30 58.5	1.743	2.602	13.1	20.1
12 7	6 41.65	+29 50.6	1.252	2.185	10.9	18.5	12 7	6 42.19	+31 19.1	1.682	2.607	9.3	19.9
12 17	6 32.09	+30 35.8	1.203	2.171	6.2	18.2	12 17	6 32.02	+31 32.4	1.647	2.612	5.3	19.7
12 27	6 20.48	+31 11.2	1.180	2.158	3.6	18.0	12 27	6 20.56	+31 34.7	1.640	2.617	3.1	19.6
1 6	6 8.65	+31 32.3	1.183	2.146	7.2	18.2	1 6	6 9.29	+31 24.7	1.662	2.622	5.8	19.8
1 16	5 58.49	+31 38.3	1.211	2.134	12.2	18.4	1 16	5 59.58	+31 3.9	1.711	2.626	9.8	20.0
1 26	5 51.56	+31 32.3	1.262	2.122	16.8	18.6	1 26	5 52.51	+30 35.9	1.785	2.630	13.4	20.2
<b>448531</b>	2010 PL <sub>10</sub>		12 26.5	90°04	3°1/26.4	17	<b>521823</b>	2015 TT <sub>327</sub>		12 26.5	54°86	1°6/26.8	18
11 17	6 55.52	+32 21.2	2.056	2.									

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>38633</b>	2000 LY <sub>13</sub>		12 26.5 186°93	4.4/26.4	18		<b>302544</b>	2002 NS <sub>67</sub>		12 26.5 193°97	6.7/26.9	18	
11 17	6 52.89	+13 10.8	2.110	2.858	15.1	19.1	11 17	6 49.24	+5 36.8	2.139	2.873	15.4	20.9
11 27	6 47.84	+12 19.7	2.017	2.858	12.3	18.9	11 27	6 44.95	+4 46.9	2.050	2.872	12.9	20.7
12 7	6 40.37	+11 33.8	1.947	2.858	9.1	18.7	12 7	6 38.38	+4 8.0	1.981	2.870	10.2	20.5
12 17	6 31.00	+10 55.3	1.902	2.856	6.0	18.5	12 17	6 30.04	+3 43.2	1.937	2.868	7.8	20.4
12 27	6 20.64	+10 26.1	1.887	2.854	4.4	18.4	12 27	6 20.74	+3 35.0	1.921	2.865	6.7	20.3
1 6	6 10.35	+10 7.4	1.901	2.851	6.3	18.6	1 6	6 11.46	+3 44.0	1.932	2.862	7.8	20.4
1 16	6 1.16	+9 59.6	1.945	2.848	9.5	18.7	1 16	6 3.17	+4 9.0	1.972	2.859	10.3	20.5
1 26	5 53.96	+10 1.9	2.014	2.843	12.7	18.9	1 26	5 56.70	+4 47.2	2.036	2.855	13.0	20.7
<b>397061</b>	2005 UY <sub>148</sub>		12 26.5 354°87	5.8/25.8	18 R		<b>495651</b>	2016 AE <sub>55</sub>		12 26.5 260°34	0.1/26.5	18	
11 17	6 50.20	+31 47.6	1.258	2.066	20.4	20.5	11 17	6 48.73	+23 27.0	2.362	3.128	13.2	21.9
11 27	6 48.20	+32 52.7	1.183	2.062	16.5	20.2	11 27	6 44.57	+23 21.4	2.261	3.119	10.5	21.7
12 7	6 42.05	+33 57.4	1.127	2.059	12.1	20.0	12 7	6 38.14	+23 16.3	2.182	3.110	7.3	21.5
12 17	6 32.34	+34 53.3	1.093	2.056	7.7	19.7	12 17	6 29.93	+23 10.9	2.130	3.100	3.7	21.2
12 27	6 20.55	+35 31.8	1.083	2.055	5.8	19.6	12 27	6 20.75	+23 4.0	2.108	3.091	0.2	20.9
1 6	6 8.78	+35 47.9	1.098	2.054	8.7	19.8	1 6	6 11.56	+22 55.2	2.116	3.082	4.1	21.2
1 16	5 59.10	+35 42.2	1.136	2.055	13.2	20.0	1 16	6 3.34	+22 45.1	2.153	3.072	7.8	21.5
1 26	5 53.07	+35 20.3	1.196	2.057	17.5	20.3	1 26	5 56.92	+22 34.5	2.216	3.063	11.1	21.6
<b>390465</b>	2013 YG <sub>114</sub>		12 26.5 15°22	1.4/26.4	18		<b>21331</b>	Lodovicoferrari		12 26.5 166°33	1.8/26.4	18	
11 17	6 50.23	+26 11.0	1.209	2.021	20.8	21.2	11 17	6 54.50	+28 38.7	2.374	3.129	13.5	20.1
11 27	6 47.79	+26 16.0	1.140	2.024	16.6	20.9	11 27	6 49.07	+28 52.7	2.284	3.134	10.7	20.0
12 7	6 41.40	+26 21.2	1.089	2.028	11.6	20.6	12 7	6 41.19	+29 4.8	2.217	3.139	7.5	19.8
12 17	6 31.83	+26 23.1	1.060	2.033	5.9	20.3	12 17	6 31.42	+29 12.3	2.177	3.143	4.1	19.5
12 27	6 20.59	+26 18.4	1.056	2.038	1.5	20.1	12 27	6 20.68	+29 12.8	2.167	3.147	1.8	19.4
1 6	6 9.64	+26 6.1	1.076	2.045	6.5	20.4	1 6	6 10.05	+29 5.3	2.188	3.150	4.5	19.6
1 16	6 0.77	+25 48.0	1.122	2.053	12.0	20.7	1 16	6 0.58	+28 50.7	2.239	3.152	7.9	19.8
1 26	5 55.31	+25 27.3	1.188	2.061	16.7	21.0	1 26	5 53.13	+28 31.3	2.317	3.153	11.0	20.0
<b>327487</b>	2005 YD <sub>143</sub>		12 26.5 20°97	1.6/26.8	17		<b>331663</b>	2002 PN <sub>105</sub>		12 26.5 67°90	4.4/26.7	18	
11 17	6 47.71	+16 51.8	1.971	2.743	15.3	21.0	11 17	6 53.46	+15 3.3	1.373	2.158	20.1	20.4
11 27	6 44.09	+17 10.6	1.886	2.746	12.2	20.8	11 27	6 49.30	+14 23.4	1.312	2.176	16.2	20.2
12 7	6 37.97	+17 37.3	1.822	2.748	8.6	20.6	12 7	6 41.81	+13 52.3	1.270	2.195	11.7	19.9
12 17	6 29.88	+18 11.0	1.784	2.752	4.6	20.4	12 17	6 31.82	+13 31.7	1.251	2.214	7.0	19.7
12 27	6 20.71	+18 49.6	1.774	2.755	1.6	20.2	12 27	6 20.66	+13 22.8	1.258	2.233	4.4	19.6
1 6	6 11.57	+19 30.8	1.793	2.759	4.7	20.4	1 6	6 9.94	+13 25.1	1.292	2.253	7.1	19.8
1 16	6 3.53	+20 12.2	1.840	2.763	8.7	20.6	1 16	6 1.05	+13 37.7	1.352	2.272	11.4	20.1
1 26	5 57.53	+20 52.7	1.914	2.767	12.3	20.9	1 26	5 55.02	+13 58.5	1.434	2.290	15.4	20.4
<b>137262</b>	1999 RF <sub>120</sub>		12 26.5 130°86	2.4/26.4	18		<b>159134</b>	2004 XR <sub>2</sub>		12 26.5 30°70	1.1/26.3	17	
11 17	6 59.12	+28 59.9	1.790	2.555	16.8	20.8	11 17	6 48.61	+24 35.0	1.797	2.582	16.1	19.5
11 27	6 53.41	+29 16.7	1.715	2.571	13.4	20.6	11 27	6 45.11	+25 2.0	1.723	2.592	12.7	19.3
12 7	6 44.50	+29 31.2	1.661	2.585	9.4	20.4	12 7	6 38.81	+25 31.3	1.671	2.602	8.8	19.1
12 17	6 33.12	+29 39.3	1.633	2.599	5.1	20.2	12 17	6 30.34	+25 59.9	1.643	2.614	4.5	18.9
12 27	6 20.53	+29 37.5	1.633	2.613	2.4	20.0	12 27	6 20.75	+26 24.8	1.643	2.626	1.2	18.6
1 6	6 8.27	+29 24.9	1.663	2.625	5.6	20.2	1 6	6 11.32	+26 43.6	1.672	2.638	5.0	18.9
1 16	5 57.74	+29 3.4	1.721	2.637	9.7	20.5	1 16	6 3.26	+26 56.1	1.728	2.651	9.1	19.2
1 26	5 49.97	+28 36.5	1.805	2.648	13.4	20.8	1 26	5 57.55	+27 3.2	1.808	2.664	12.7	19.5
<b>352944</b>	2009 BS <sub>7</sub>		12 26.5 20°75	4.5/26.9	18		<b>291864</b>	2006 PH <sub>4</sub>		12 26.5 105°40	1.2/26.7	18	
11 17	6 45.91	+15 1.6	1.152	1.965	21.6	19.6	11 17	6 56.84	+18 23.3	1.609	2.379	18.2	21.3
11 27	6 43.99	+14 28.1	1.095	1.976	17.4	19.4	11 27	6 51.66	+18 42.8	1.541	2.400	14.5	21.1
12 7	6 38.52	+14 5.6	1.056	1.989	12.5	19.2	12 7	6 43.34	+19 10.1	1.494	2.421	10.1	20.8
12 17	6 30.27	+13 56.0	1.037	2.003	7.5	18.9	12 17	6 32.58	+19 42.9	1.472	2.441	5.2	20.6
12 27	6 20.70	+14 0.2	1.042	2.019	4.5	18.8	12 27	6 20.64	+20 18.1	1.478	2.461	1.2	20.4
1 6	6 11.50	+14 16.9	1.072	2.036	7.5	19.0	1 6	6 9.00	+20 52.9	1.514	2.480	5.4	20.7
1 16	6 4.20	+14 43.7	1.125	2.054	12.2	19.4	1 16	5 59.03	+21 25.4	1.577	2.498	10.0	21.0
1 26	5 59.93	+15 17.7	1.199	2.074	16.5	19.7	1 26	5 51.78	+21 55.4	1.665	2.516	13.9	21.3
<b>421330</b>	2013 TW <sub>71</sub>		12 26.5 155°48	0.1/26.5	18		<b>361403</b>	2006 WK <sub>38</sub>		12 26.5 116°54	3.6/26.8	18	
11 17	6 48.25	+23 25.0	2.805	3.561	11.6	21.7	11 17	6 49.15	+13 55.5	2.049	2.810	15.1	21.2
11 27	6 43.68	+23 29.5	2.713	3.566	9.2	21.5	11 27	6 44.97	+13 29.1	1.966	2.815	12.2	21.0
12 7	6 37.23	+23 34.9	2.646	3.571	6.3	21.4	12 7	6 38.43	+13 9.6	1.903	2.821	8.9	20.9
12 17	6 29.36	+23 40.0	2.606	3.576	3.1	21.2	12 17	6 30.08	+12 58.1	1.867	2.826	5.5	20.7
12 27	6 20.76	+23 43.7	2.597	3.580	0.2	20.9	12 27	6 20.78	+12 55.2	1.859	2.831	3.6	20.5
1 6	6 12.24	+23 45.3	2.618	3.584	3.5	21.2	1 6	6 11.60	+13 0.8	1.879	2.836	5.6	20.7
1 16	6 4.55	+23 44.9	2.670	3.587	6.6	21.4	1 16	6 3.52	+13 14.0	1.929	2.841	9.0	20.9
1 26	5 58.39	+23 43.1	2.750	3.591	9.3	21.6	1 26	5 57.38	+13 33.7	2.003	2.846	12.2	21.1
<b>197058</b>	2003 UV <sub>152</sub>		12 26.5 65°83	4.2/25.2	18		<b>14566</b>	Hokule'a		12 26.5 114°99	1.7/26.5	18	
11 17	6 55.50	+30 12.9	2.174	2.933	14.4	18.9	11 17	6 54.04	+19 42.3	2.190	2.944	14.4	18.8
11 27	6 50.31	+31 51.4	2.105	2.954	11.5	18.8	11 27	6 48.49	+19 14.6	2.115	2.965	11.5	18.6
12 7	6 42.32	+33 30.6	2.059	2.976	8.3	18.6	12 7	6 40.63	+18 49.2	2.062	2.985	8.0	18.4
12 17	6 32.09	+35 3.7	2.041	2.998	5.3	18.5	12 17	6 31.07	+18 26.0	2.037	3.004	4.3	18.2
12 27	6 20.61	+36 24.0	2.053	3.019	4.2	18.4	12 27	6 20.75	+18 5.3	2.042	3.022	1.7	18.1
1 6	6 9.14	+37 27.3	2.097	3.041	6.2	18.6	1 6	6 10.70	+17 47.4	2.077	3.040	4.5	18.3
1 16	5 58.93	+38 12.3	2.169	3.063	9.1	18.8	1 16	6 1.90	+17 33.0	2.143	3.058	8.1	18.5
1 26	5 51.01	+38 41.2	2.267	3.084	11.9	19.0	1 26	5 55.10	+17 22.7	2.235	3.074	11.3	18.8
<b>331267</b>	2011 CD <sub>70</sub>		12 26.5 242°53	0.6/26.4	18		<b>435069</b>	2006 YR <sub>54</sub>		12 26.5 173°24	2.2/26.8	18	
11 17	6 49.09	+22 55.9	2.532	3.292	12.6								

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>359480</b>	2010 <i>OY</i> <sub>26</sub>	12 26.5	190°42	4.8/25.9	17		<b>125234</b>	2001 <i>UT</i> <sub>162</sub>	12 26.5	239°98	2.5/26.6	18	
11 17	6 54.38	+35 37.3	2.258	3.012	14.1	21.4	11 17	6 51.76	+17 45.5	1.824	2.594	16.4	20.4
11 27	6 49.55	+36 27.9	2.168	3.012	11.5	21.2	11 27	6 47.63	+17 25.5	1.727	2.585	13.2	20.1
12 7	6 41.88	+37 14.4	2.101	3.011	8.6	21.0	12 7	6 40.67	+17 10.4	1.651	2.576	9.4	19.9
12 17	6 31.93	+37 51.4	2.059	3.009	5.9	20.8	12 17	6 31.38	+17 0.3	1.599	2.566	5.2	19.6
12 27	6 20.71	+38 14.0	2.047	3.008	4.8	20.8	12 27	6 20.77	+16 55.2	1.576	2.556	2.5	19.4
1 6	6 9.49	+38 20.0	2.063	3.006	6.5	20.9	1 6	6 10.09	+16 55.0	1.582	2.545	5.6	19.6
1 16	5 59.54	+38 10.1	2.108	3.004	9.3	21.0	1 16	6 0.64	+16 59.5	1.615	2.534	9.9	19.8
1 26	5 51.90	+37 47.7	2.178	3.001	12.1	21.2	1 26	5 53.49	+17 8.5	1.673	2.523	13.9	20.0
<b>446900</b>	2002 <i>QP</i> <sub>32</sub>	12 26.5	42°59	1.4/26.4	17		<b>49769</b>	1999 <i>WZ</i> <sub>6</sub>	12 26.5	311°16	0.2/26.5	18	
11 17	6 52.59	+25 35.0	1.406	2.202	19.2	21.0	11 17	6 51.26	+21 21.5	1.427	2.221	19.0	19.1
11 27	6 48.78	+25 53.9	1.352	2.226	15.2	20.8	11 27	6 48.21	+21 49.2	1.341	2.215	15.3	18.8
12 7	6 41.53	+26 13.9	1.317	2.251	10.4	20.6	12 7	6 41.64	+22 24.5	1.274	2.209	10.7	18.5
12 17	6 31.71	+26 31.2	1.305	2.276	5.3	20.4	12 17	6 32.08	+23 4.5	1.231	2.203	5.4	18.2
12 27	6 20.73	+26 42.3	1.320	2.302	1.5	20.2	12 27	6 20.73	+23 44.9	1.214	2.197	0.3	17.8
1 6	6 10.27	+26 45.8	1.362	2.329	5.7	20.6	1 6	6 9.28	+24 22.0	1.223	2.192	6.0	18.2
1 16	6 1.75	+26 42.7	1.430	2.356	10.4	20.9	1 16	5 59.41	+24 53.4	1.259	2.186	11.4	18.5
1 26	5 56.19	+26 35.2	1.521	2.383	14.4	21.2	1 26	5 52.53	+25 19.2	1.317	2.181	16.0	18.8
<b>189628</b>	2001 <i>KE</i> <sub>4</sub>	12 26.5	100°60	5.6/26.5	18		<b>42008</b>	2000 <i>YJ</i> <sub>50</sub>	12 26.5	119°51	0.7/26.4	18	
11 17	6 48.23	+7 5.9	2.569	3.297	13.2	19.5	11 17	6 57.69	+23 15.9	1.716	2.485	17.3	19.2
11 27	6 43.57	+6 0.6	2.493	3.313	11.0	19.4	11 27	6 52.32	+23 42.0	1.644	2.504	13.7	19.0
12 7	6 37.09	+5 3.3	2.440	3.328	8.6	19.2	12 7	6 43.81	+24 11.6	1.594	2.521	9.5	18.7
12 17	6 29.29	+4 16.7	2.413	3.343	6.5	19.1	12 17	6 32.87	+24 41.0	1.568	2.538	4.8	18.5
12 27	6 20.87	+3 43.4	2.415	3.358	5.6	19.1	12 27	6 20.70	+25 6.7	1.572	2.555	0.7	18.2
1 6	6 12.60	+3 24.1	2.447	3.372	6.6	19.2	1 6	6 8.80	+25 26.3	1.605	2.570	5.2	18.6
1 16	6 5.23	+3 18.8	2.507	3.387	8.7	19.3	1 16	5 58.54	+25 39.5	1.666	2.585	9.7	18.9
1 26	5 59.38	+3 25.9	2.592	3.401	10.9	19.5	1 26	5 50.97	+25 47.7	1.752	2.599	13.5	19.2
<b>349130</b>	2007 <i>HM</i> <sub>73</sub>	12 26.5	68°91	4.0/26.7	17		<b>389873</b>	2012 <i>SH</i> <sub>12</sub>	12 26.5	24°79	3.3/26.8	18	
11 17	6 47.64	+12 58.2	2.165	2.923	14.5	20.8	11 17	6 47.92	+16 45.8	1.189	1.999	21.2	20.5
11 27	6 43.61	+12 21.3	2.084	2.931	11.8	20.6	11 27	6 45.61	+16 27.6	1.128	2.009	17.0	20.3
12 7	6 37.39	+11 51.1	2.025	2.939	8.6	20.5	12 7	6 39.71	+16 19.0	1.085	2.020	12.1	20.0
12 17	6 29.53	+11 29.1	1.992	2.947	5.6	20.3	12 17	6 30.96	+16 20.6	1.063	2.032	6.7	19.8
12 27	6 20.85	+11 16.6	1.987	2.956	4.0	20.2	12 27	6 20.81	+16 31.9	1.066	2.046	3.3	19.6
1 6	6 12.30	+11 13.7	2.011	2.964	5.7	20.3	1 6	6 10.99	+16 51.3	1.094	2.060	6.9	19.9
1 16	6 4.80	+11 20.0	2.064	2.973	8.7	20.5	1 16	6 3.08	+17 16.6	1.145	2.076	11.9	20.2
1 26	5 59.09	+11 34.2	2.142	2.981	11.7	20.7	1 26	5 58.25	+17 45.9	1.219	2.092	16.4	20.5
<b>162952</b>	2001 <i>QC</i> <sub>62</sub>	12 26.5	106°58	0.1/26.5	18		<b>111163</b>	2001 <i>VW</i> <sub>112</sub>	12 26.5	3°68	1.2/26.5	18	
11 17	6 48.33	+23 46.5	2.597	3.358	12.3	20.0	11 17	6 49.03	+22 33.8	1.661	2.449	17.0	19.4
11 27	6 43.88	+23 45.4	2.512	3.368	9.7	19.9	11 27	6 45.64	+22 0.7	1.578	2.448	13.6	19.2
12 7	6 37.44	+23 44.8	2.451	3.377	6.7	19.7	12 7	6 39.31	+21 27.6	1.516	2.448	9.5	19.0
12 17	6 29.52	+23 43.7	2.416	3.386	3.3	19.5	12 17	6 30.66	+20 54.7	1.478	2.449	4.9	18.7
12 27	6 20.85	+23 40.9	2.412	3.395	0.2	19.2	12 27	6 20.83	+20 22.1	1.468	2.450	1.2	18.5
1 6	6 12.31	+23 36.2	2.438	3.404	3.7	19.5	1 6	6 11.18	+19 51.1	1.485	2.453	5.3	18.7
1 16	6 4.72	+23 29.7	2.494	3.413	6.9	19.8	1 16	6 2.98	+19 23.3	1.530	2.455	9.9	19.0
1 26	5 58.76	+23 22.4	2.578	3.422	9.8	20.0	1 26	5 57.25	+19 0.3	1.599	2.458	13.9	19.3
<b>339040</b>	2004 <i>JH</i> <sub>25</sub>	12 26.5	202°52	1.0/26.4	18		<b>284831</b>	2009 <i>BE</i> <sub>16</sub>	12 26.5	82°62	1.5/26.7	18	
11 17	6 54.93	+24 53.4	2.038	2.801	15.1	22.2	11 17	6 52.47	+18 58.1	1.738	2.512	16.9	21.8
11 27	6 49.96	+25 12.6	1.941	2.796	12.1	22.0	11 27	6 48.01	+18 59.0	1.668	2.529	13.5	21.6
12 7	6 42.17	+25 33.4	1.865	2.792	8.4	21.8	12 7	6 40.73	+19 5.5	1.619	2.546	9.4	21.4
12 17	6 32.09	+25 53.1	1.816	2.786	4.3	21.5	12 17	6 31.29	+19 16.6	1.594	2.563	4.9	21.2
12 27	6 20.71	+26 8.6	1.797	2.779	1.0	21.2	12 27	6 20.80	+19 30.6	1.598	2.580	1.5	21.0
1 6	6 9.29	+26 18.1	1.808	2.772	4.9	21.5	1 6	6 10.58	+19 46.2	1.631	2.597	5.1	21.3
1 16	5 59.08	+26 21.5	1.847	2.765	9.0	21.7	1 16	6 1.81	+20 2.5	1.692	2.614	9.3	21.5
1 26	5 51.15	+26 20.2	1.913	2.756	12.7	22.0	1 26	5 55.46	+20 19.2	1.777	2.630	13.1	21.8
<b>138241</b>	2000 <i>FS</i> <sub>33</sub>	12 26.5	163°88	5.0/25.9	18		<b>190131</b>	2005 <i>CJ</i> <sub>60</sub>	12 26.5	65°25	2.8/26.7	16	
11 17	6 56.06	+37 6.1	2.334	3.082	13.9	20.3	11 17	6 55.07	+33 22.3	2.163	2.921	14.5	19.3
11 27	6 50.75	+37 54.7	2.249	3.086	11.4	20.1	11 27	6 49.55	+33 12.2	2.093	2.943	11.6	19.2
12 7	6 42.62	+38 37.8	2.185	3.090	8.6	19.9	12 7	6 41.45	+32 55.5	2.045	2.964	8.3	19.0
12 17	6 32.26	+39 10.1	2.148	3.094	6.1	19.8	12 17	6 31.51	+32 29.5	2.024	2.986	4.8	18.8
12 27	6 20.70	+39 26.9	2.140	3.097	5.1	19.7	12 27	6 20.80	+31 52.9	2.032	3.008	2.8	18.7
1 6	6 9.22	+39 26.3	2.162	3.100	6.5	19.8	1 6	6 10.54	+31 6.6	2.070	3.030	4.9	18.9
1 16	5 59.07	+39 9.6	2.211	3.102	9.1	20.0	1 16	6 1.78	+30 13.7	2.138	3.051	8.2	19.1
1 26	5 51.24	+38 40.5	2.287	3.104	11.8	20.2	1 26	5 55.30	+29 18.1	2.232	3.073	11.2	19.4
<b>231241</b>	2005 <i>YW</i> <sub>35</sub>	12 26.5	210°05	0.0/26.5	18		<b>481132</b>	2005 <i>UU</i> <sub>24</sub>	12 26.5	88°59	4.2/26.2	18	
11 17	6 53.67	+24 4.1	1.898	2.668	15.8	21.0	11 17	6 57.12	+31 9.9	1.587	2.365	18.1	21.0
11 27	6 49.05	+23 55.0	1.804	2.665	12.7	20.8	11 27	6 52.45	+31 57.6	1.520	2.381	14.5	20.8
12 7	6 41.56	+23 46.2	1.732	2.660	8.8	20.5	12 7	6 44.23	+32 43.0	1.472	2.396	10.4	20.6
12 17	6 31.78	+23 35.9	1.685	2.656	4.4	20.2	12 17	6 33.18	+33 19.7	1.449	2.412	6.3	20.4
12 27	6 20.74	+23 22.9	1.667	2.651	0.2	19.9	12 27	6 20.71	+33 41.9	1.453	2.427	4.2	20.3
1 6	6 9.75	+23 6.9	1.679	2.645	4.9	20.3	1 6	6 8.54	+33 47.2	1.485	2.442	6.8	20.5
1 16	6 0.09	+22 49.0	1.719	2.639	9.3	20.5	1 16	5 58.29	+33 37.2	1.543	2.456	10.8	20.8
1 26	5 52.80	+22 31.0	1.784	2.633	13.2	20.7	1 26	5 51.11	+33 16.3	1.626	2.471	14.5	21.0
<b>143391</b>	2003 <i>BM</i> <sub>28</sub>	12 26.5	323°64	2.8/26.5	18		<b>38158</b>	1999 <i>JS</i> <sub>72</sub>	12 26.5	194°68	1.2/2		

EPHEMERIDES

12 26.5

12 26.5

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>162268</b>	1999 <i>UL</i> <sub>51</sub>		12 26.5	11°81'	1°9/26.8	18	<b>76331</b>	2000 <i>ED</i> <sub>149</sub>		12 26.5	223°76'	2°1/26.2	18
11 17	6 47.07	+17 20.4	1.350	2.152	19.5	19.0	11 17	6 49.76	+29 9.6	2.631	3.389	12.2	20.1
11 27	6 44.74	+17 32.6	1.277	2.154	15.7	18.8	11 27	6 45.31	+29 36.3	2.531	3.384	9.8	19.9
12 7	6 39.07	+17 55.0	1.224	2.158	11.0	18.5	12 7	6 38.65	+30 1.9	2.455	3.377	6.9	19.7
12 17	6 30.69	+18 26.9	1.192	2.163	5.9	18.2	12 17	6 30.26	+30 23.7	2.406	3.371	3.9	19.5
12 27	6 20.84	+19 5.5	1.187	2.168	1.9	18.0	12 27	6 20.91	+30 39.1	2.387	3.364	2.1	19.4
1 6	6 11.09	+19 47.5	1.207	2.175	6.0	18.3	1 6	6 11.53	+30 46.5	2.398	3.357	4.3	19.5
1 16	6 2.98	+20 30.0	1.252	2.183	11.1	18.6	1 16	6 3.05	+30 46.1	2.439	3.350	7.4	19.7
1 26	5 57.71	+21 11.1	1.321	2.191	15.5	18.9	1 26	5 56.31	+30 39.3	2.506	3.343	10.3	19.9
<b>88790</b>	2001 <i>SS</i> <sub>110</sub>		12 26.5	172°63'	3°9/26.2	18	<b>303047</b>	2003 <i>YV</i> <sub>80</sub>		12 26.5	323°34'	0°1/26.5	18
11 17	6 56.73	+32 19.1	1.920	2.684	15.9	19.4	11 17	6 49.57	+20 28.9	1.700	2.483	16.9	20.3
11 27	6 51.72	+32 54.6	1.834	2.687	12.8	19.2	11 27	6 46.30	+21 8.6	1.608	2.476	13.5	20.1
12 7	6 43.54	+33 27.0	1.769	2.689	9.3	19.0	12 7	6 40.01	+21 56.5	1.537	2.469	9.4	19.8
12 17	6 32.82	+33 50.9	1.730	2.690	5.7	18.8	12 17	6 31.19	+22 50.0	1.491	2.462	4.8	19.5
12 27	6 20.73	+34 1.7	1.719	2.691	3.9	18.7	12 27	6 20.86	+23 44.8	1.473	2.456	0.3	19.2
1 6	6 8.73	+33 57.4	1.737	2.692	6.2	18.8	1 6	6 10.39	+24 36.8	1.483	2.450	5.3	19.5
1 16	5 58.25	+33 39.4	1.784	2.692	9.9	19.0	1 16	6 1.18	+25 23.2	1.520	2.444	10.0	19.8
1 26	5 50.43	+33 11.5	1.855	2.692	13.3	19.3	1 26	5 54.44	+26 3.2	1.582	2.439	14.2	20.0
<b>298475</b>	2003 <i>UY</i> <sub>211</sub>		12 26.5	54°14'	7°1/26.6	18	<b>241347</b>	2007 <i>WP</i> <sub>23</sub>		12 26.5	176°96'	1°8/26.2	18
11 17	6 49.99	+ 9 9.6	1.616	2.381	18.4	20.2	11 17	6 53.91	+26 56.4	2.361	3.117	13.5	21.6
11 27	6 46.09	+ 7 54.2	1.548	2.394	15.2	20.0	11 27	6 48.76	+27 31.9	2.268	3.119	10.8	21.4
12 7	6 39.42	+ 6 49.2	1.501	2.407	11.7	19.8	12 7	6 41.13	+28 8.3	2.198	3.121	7.5	21.2
12 17	6 30.64	+ 5 59.3	1.477	2.420	8.5	19.7	12 17	6 31.54	+28 42.1	2.155	3.122	4.0	21.0
12 27	6 20.86	+ 5 27.9	1.479	2.434	7.1	19.6	12 27	6 20.85	+29 10.0	2.143	3.123	1.8	20.9
1 6	6 11.34	+ 5 16.5	1.508	2.448	8.6	19.7	1 6	6 10.15	+29 29.9	2.161	3.122	4.6	21.0
1 16	6 3.27	+ 5 24.1	1.563	2.462	11.7	19.9	1 16	6 0.53	+29 41.4	2.210	3.122	8.0	21.3
1 26	5 57.55	+ 5 47.4	1.640	2.476	14.8	20.2	1 26	5 52.88	+29 45.8	2.285	3.120	11.2	21.5
<b>484373</b>	2007 <i>VS</i> <sub>212</sub>		12 26.5	335°81'	4°8/25.3	18	<b>407021</b>	2009 <i>SN</i> <sub>35</sub>		12 26.5	64°97'	5°2/26.1	17
11 17	6 52.79	+29 39.3	1.672	2.454	17.2	21.1	11 17	6 53.48	+36 49.3	2.097	2.857	14.8	21.2
11 27	6 49.33	+31 9.4	1.585	2.450	13.9	20.8	11 27	6 48.94	+37 33.8	2.022	2.867	12.1	21.0
12 7	6 42.41	+32 43.4	1.520	2.446	10.1	20.6	12 7	6 41.48	+38 12.2	1.968	2.877	9.1	20.9
12 17	6 32.50	+34 13.8	1.480	2.442	6.4	20.4	12 17	6 31.74	+38 39.0	1.939	2.888	6.4	20.7
12 27	6 20.74	+35 32.1	1.468	2.438	4.9	20.3	12 27	6 20.84	+38 49.8	1.938	2.898	5.2	20.7
1 6	6 8.74	+36 32.0	1.484	2.435	7.5	20.4	1 6	6 10.14	+38 43.1	1.966	2.908	6.7	20.8
1 16	5 58.19	+37 11.2	1.526	2.432	11.4	20.7	1 16	6 0.91	+38 20.5	2.021	2.919	9.5	21.0
1 26	5 50.53	+37 32.2	1.592	2.429	15.1	20.9	1 26	5 54.14	+37 46.2	2.101	2.929	12.3	21.2
<b>121982</b>	2000 <i>EP</i> <sub>160</sub>		12 26.5	131°70'	0°3/26.5	17	<b>402298</b>	2005 <i>SL</i> <sub>242</sub>		12 26.5	167°64'	3°7/26.2	17
11 17	6 48.53	+22 5.0	2.726	3.482	11.9	20.8	11 17	6 54.10	+34 18.3	2.434	3.185	13.3	22.3
11 27	6 43.94	+22 7.8	2.640	3.492	9.4	20.6	11 27	6 48.93	+34 47.3	2.345	3.189	10.7	22.1
12 7	6 37.45	+22 12.4	2.577	3.502	6.5	20.5	12 7	6 41.23	+35 11.7	2.279	3.192	7.9	22.0
12 17	6 29.54	+22 17.5	2.542	3.511	3.2	20.3	12 17	6 31.56	+35 27.6	2.239	3.194	5.1	21.8
12 27	6 20.92	+22 22.3	2.537	3.520	0.3	20.0	12 27	6 20.86	+35 31.6	2.229	3.197	3.7	21.7
1 6	6 12.39	+22 25.9	2.563	3.529	3.5	20.3	1 6	6 10.25	+35 22.6	2.249	3.198	5.4	21.8
1 16	6 4.75	+22 28.5	2.620	3.537	6.7	20.5	1 16	6 0.85	+35 1.6	2.297	3.200	8.3	22.0
1 26	5 58.64	+22 30.3	2.703	3.545	9.5	20.7	1 26	5 53.53	+34 31.8	2.373	3.201	11.1	22.2
<b>231594</b>	2008 <i>US</i> <sub>358</sub>		12 26.5	52°64'	7°3/28.4	18	<b>167374</b>	2003 <i>WM</i> <sub>65</sub>		12 26.5	42°36'	2°4/26.2	18
11 17	6 46.09	+ 0 25.9	2.218	2.937	15.3	20.0	11 17	6 52.17	+25 34.8	1.449	2.243	18.8	19.1
11 27	6 42.29	+ 0 2.0	2.145	2.950	13.0	19.9	11 27	6 48.66	+26 27.7	1.386	2.259	14.9	18.9
12 7	6 36.46	- 0 6.1	2.092	2.964	10.6	19.7	12 7	6 41.69	+27 23.9	1.343	2.276	10.4	18.7
12 17	6 29.09	+ 0 4.2	2.063	2.977	8.4	19.6	12 17	6 31.97	+28 18.0	1.323	2.293	5.5	18.5
12 27	6 20.96	+ 0 34.1	2.060	2.991	7.3	19.6	12 27	6 20.86	+29 4.2	1.330	2.311	2.5	18.3
1 6	6 12.95	+ 1 22.4	2.085	3.005	7.9	19.6	1 6	6 10.01	+29 38.7	1.365	2.329	6.2	18.6
1 16	6 5.91	+ 2 26.0	2.137	3.019	9.8	19.8	1 16	6 0.98	+30 0.6	1.426	2.348	10.7	18.9
1 26	6 0.54	+ 3 40.6	2.214	3.033	12.1	20.0	1 26	5 54.92	+30 12.2	1.510	2.367	14.7	19.2
<b>438497</b>	2007 <i>PN</i> <sub>17</sub>		12 26.5	97°57'	5°7/27.9	15	<b>99817</b>	2002 <i>LP</i> <sub>50</sub>		12 26.5	176°96'	1°9/26.9	18
11 17	6 52.98	+ 5 37.3	1.997	2.728	16.4	22.1	11 17	6 51.11	+16 25.6	1.878	2.645	16.1	20.0
11 27	6 47.80	+ 5 28.6	1.931	2.754	13.6	21.9	11 27	6 47.00	+16 42.6	1.789	2.645	12.9	19.7
12 7	6 40.27	+ 5 34.4	1.885	2.779	10.4	21.8	12 7	6 40.17	+17 8.4	1.721	2.646	9.1	19.5
12 17	6 30.97	+ 5 56.1	1.865	2.804	7.4	21.6	12 17	6 31.15	+17 41.9	1.679	2.646	4.9	19.3
12 27	6 20.86	+ 6 33.4	1.872	2.828	5.8	21.6	12 27	6 20.90	+18 21.0	1.665	2.646	1.9	19.0
1 6	6 11.01	+ 7 24.4	1.909	2.852	6.9	21.7	1 6	6 10.63	+19 3.2	1.681	2.646	5.1	19.3
1 16	6 2.39	+ 8 25.4	1.975	2.875	9.6	21.9	1 16	6 1.55	+19 46.1	1.725	2.646	9.3	19.5
1 26	5 55.79	+ 9 32.6	2.067	2.897	12.4	22.1	1 26	5 54.68	+20 28.2	1.794	2.646	13.0	19.7
<b>195737</b>	2002 <i>PQ</i> <sub>92</sub>		12 26.5	357°09'	3°8/26.4	18	<b>163773</b>	2003 <i>QZ</i> <sub>1</sub>		12 26.5	65°18'	1°1/26.6	18
11 17	6 47.98	+14 18.4	2.346	3.101	13.6	19.9	11 17	6 52.02	+20 24.7	1.619	2.401	17.7	20.8
11 27	6 43.77	+13 26.9	2.255	3.101	11.0	19.7	11 27	6 47.93	+20 22.7	1.550	2.416	14.0	20.6
12 7	6 37.48	+12 39.5	2.186	3.100	8.1	19.5	12 7	6 40.84	+20 25.3	1.501	2.431	9.7	20.3
12 17	6 29.62	+11 57.9	2.144	3.100	5.2	19.3	12 17	6 31.43	+20 31.2	1.476	2.446	5.0	20.1
12 27	6 20.94	+11 24.0	2.132	3.100	3.8	19.3	12 27	6 20.89	+20 39.0	1.479	2.462	1.1	19.9
1 6	6 12.35	+10 59.0	2.149	3.100	5.5	19.4	1 6	6 10.64	+20 47.3	1.510	2.477	5.3	20.2
1 16	6 4.71	+10 43.4	2.194	3.100	8.4	19.5	1 16	6 1.95	+20 55.7	1.568	2.493	9.8	20.5
1 26	5 58.76	+10 36.9	2.266	3.100	11.3	19.7	1 26	5 55.82	+21 4.6	1.651	2.508	13.7	20.8
<b>242014</b>	2002 <i>PW</i> <sub>139</sub>		12 26.5	115°25'	3°0/27.2	18	<b>446911</b>	2002 <i>RY</i> <sub>189</sub>		12 26.5</			



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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>102194</b>	1999 SV <sub>7</sub>		12 26.5	43°76	1°1/26.7	18	<b>339698</b>	2005 RD <sub>2</sub>		12 26.5	172°49	9°4/25.9	18
11 17	6 52.04	+18 2.7	1.193	1.997	21.5	18.5	11 17	6 53.74	+2 16.2	1.975	2.693	16.9	20.9
11 27	6 49.02	+18 34.8	1.132	2.010	17.2	18.3	11 27	6 48.66	+0 30.6	1.894	2.697	14.6	20.8
12 7	6 42.20	+19 18.7	1.090	2.025	11.9	18.0	12 7	6 41.06	-1 4.2	1.833	2.699	12.1	20.6
12 17	6 32.32	+20 11.5	1.069	2.040	6.1	17.8	12 17	6 31.52	-2 21.9	1.797	2.702	10.1	20.5
12 27	6 20.86	+21 8.2	1.073	2.056	1.1	17.5	12 27	6 20.95	-3 17.1	1.788	2.703	9.4	20.4
1 6	6 9.71	+22 3.5	1.104	2.073	6.3	17.9	1 6	6 10.47	-3 46.9	1.806	2.704	10.4	20.5
1 16	6 0.58	+22 54.1	1.159	2.090	11.8	18.2	1 16	6 1.14	-3 51.4	1.850	2.704	12.5	20.6
1 26	5 54.74	+23 38.6	1.237	2.107	16.4	18.6	1 26	5 53.87	-3 33.8	1.917	2.703	15.0	20.8
<b>337369</b>	2001 PY <sub>54</sub>		12 26.5	150°25	0°2/26.5	18	<b>247496</b>	2002 OP <sub>1</sub>		12 26.5	75°51	4°7/26.7	17
11 17	6 55.99	+23 53.9	2.018	2.779	15.3	22.1	11 17	6 54.02	+13 7.8	1.830	2.586	16.8	20.8
11 27	6 50.57	+23 56.0	1.934	2.789	12.2	21.9	11 27	6 48.74	+12 13.9	1.771	2.616	13.6	20.6
12 7	6 42.43	+23 59.2	1.873	2.798	8.4	21.7	12 7	6 40.94	+11 27.6	1.734	2.646	9.9	20.5
12 17	6 32.19	+24 1.3	1.837	2.807	4.2	21.4	12 17	6 31.33	+10 51.3	1.722	2.676	6.4	20.3
12 27	6 20.87	+24 0.5	1.832	2.815	0.3	21.1	12 27	6 20.98	+10 26.5	1.738	2.706	4.7	20.3
1 6	6 9.74	+23 55.9	1.857	2.822	4.6	21.5	1 6	6 11.05	+10 13.9	1.784	2.735	6.5	20.4
1 16	5 59.94	+23 48.3	1.911	2.829	8.7	21.8	1 16	6 2.58	+10 12.9	1.857	2.763	9.7	20.7
1 26	5 52.44	+23 39.2	1.991	2.835	12.3	22.0	1 26	5 56.34	+10 21.9	1.955	2.791	12.8	20.9
<b>175782</b>	1999 FJ <sub>62</sub>		12 26.5	278°85	7°7/27.2	17	<b>175547</b>	2006 SS <sub>280</sub>		12 26.5	109°32	0°7/26.6	18
11 17	6 47.13	+3 34.0	2.022	2.758	16.1	20.4	11 17	6 52.46	+20 8.8	2.211	2.969	14.2	20.7
11 27	6 43.59	+2 44.1	1.926	2.747	13.7	20.2	11 27	6 47.42	+20 19.8	2.136	2.989	11.3	20.5
12 7	6 37.69	+2 6.9	1.851	2.736	11.1	20.0	12 7	6 40.06	+20 34.6	2.084	3.008	7.8	20.3
12 17	6 29.89	+1 46.6	1.800	2.725	8.7	19.8	12 17	6 30.96	+20 52.0	2.058	3.027	4.0	20.1
12 27	6 21.00	+1 46.0	1.775	2.714	7.7	19.8	12 27	6 21.00	+21 10.0	2.062	3.045	0.7	19.9
1 6	6 12.04	+2 5.8	1.777	2.703	8.7	19.8	1 6	6 11.24	+21 27.4	2.097	3.063	4.2	20.2
1 16	6 4.03	+2 44.5	1.805	2.692	11.1	19.9	1 16	6 2.63	+21 43.5	2.161	3.080	7.8	20.5
1 26	5 57.87	+3 38.5	1.857	2.680	13.9	20.1	1 26	5 55.97	+21 58.4	2.252	3.096	11.0	20.7
<b>371325</b>	2006 HU <sub>94</sub>		12 26.5	209°88	0°5/26.5	18	<b>309871</b>	2009 DY <sub>94</sub>		12 26.5	264°24	3°0/26.9	18
11 17	6 48.68	+24 18.8	2.668	3.426	12.0	22.0	11 17	6 49.35	+14 58.9	1.920	2.686	15.8	21.5
11 27	6 44.30	+24 30.3	2.569	3.423	9.6	21.8	11 27	6 45.60	+14 51.7	1.823	2.678	12.8	21.3
12 7	6 37.88	+24 42.7	2.493	3.418	6.6	21.7	12 7	6 39.23	+14 52.5	1.748	2.669	9.2	21.1
12 17	6 29.87	+24 54.5	2.444	3.414	3.3	21.4	12 17	6 30.74	+15 1.7	1.697	2.661	5.4	20.8
12 27	6 21.00	+25 4.0	2.426	3.409	0.5	21.2	12 27	6 21.01	+15 18.8	1.675	2.652	3.0	20.6
1 6	6 12.13	+25 10.4	2.439	3.404	3.7	21.4	1 6	6 11.21	+15 42.7	1.681	2.643	5.5	20.8
1 16	6 4.11	+25 13.3	2.482	3.399	7.0	21.6	1 16	6 2.49	+16 11.9	1.715	2.634	9.5	21.0
1 26	5 57.68	+25 13.6	2.551	3.394	9.9	21.8	1 26	5 55.87	+16 44.9	1.775	2.625	13.2	21.2
<b>486369</b>	2013 DX <sub>5</sub>		12 26.5	265°92	4°8/25.9	17	<b>520847</b>	2014 UP <sub>238</sub>		12 26.5	258°32	1°6/26.6	18
11 17	6 53.93	+34 10.2	1.997	2.762	15.3	21.6	11 17	6 48.75	+19 56.8	2.313	3.076	13.5	21.6
11 27	6 49.73	+34 56.9	1.897	2.749	12.5	21.3	11 27	6 44.57	+19 30.5	2.216	3.072	10.8	21.4
12 7	6 42.39	+35 40.5	1.819	2.735	9.3	21.1	12 7	6 38.17	+19 6.0	2.142	3.067	7.6	21.2
12 17	6 32.42	+36 15.5	1.766	2.722	6.2	20.9	12 17	6 30.07	+18 43.3	2.095	3.062	4.1	21.0
12 27	6 20.87	+36 36.4	1.741	2.708	4.8	20.8	12 27	6 21.06	+18 22.7	2.077	3.058	1.6	20.8
1 6	6 9.17	+36 40.1	1.744	2.693	6.8	20.9	1 6	6 12.09	+18 4.6	2.089	3.053	4.4	21.0
1 16	5 58.80	+36 27.2	1.775	2.679	10.2	21.0	1 16	6 4.10	+17 49.7	2.130	3.048	8.0	21.2
1 26	5 50.98	+36 1.4	1.831	2.665	13.6	21.2	1 26	5 57.90	+17 38.6	2.198	3.043	11.2	21.4
<b>72676</b>	2001 FM <sub>56</sub>		12 26.5	194°48	4°7/26.9	18	<b>133725</b>	2003 UJ <sub>263</sub>		12 26.5	166°40	3°8/26.2	18
11 17	6 46.80	+9 44.5	2.413	3.157	13.6	19.6	11 17	6 51.91	+34 47.6	2.492	3.246	12.9	20.3
11 27	6 42.82	+9 8.1	2.322	3.157	11.2	19.4	11 27	6 47.21	+35 16.4	2.402	3.247	10.5	20.1
12 7	6 36.85	+8 39.6	2.253	3.156	8.5	19.2	12 7	6 40.08	+35 40.6	2.335	3.248	7.7	20.0
12 17	6 29.35	+8 20.8	2.209	3.155	5.9	19.1	12 17	6 31.04	+35 56.3	2.295	3.249	5.0	19.8
12 27	6 21.04	+8 13.0	2.195	3.154	4.7	19.0	12 27	6 21.01	+36 0.3	2.284	3.250	3.8	19.7
1 6	6 12.77	+8 16.6	2.209	3.153	5.9	19.1	1 6	6 11.06	+35 51.6	2.302	3.251	5.4	19.8
1 16	6 5.36	+8 30.9	2.252	3.152	8.5	19.2	1 16	6 2.25	+35 31.0	2.350	3.252	8.1	20.0
1 26	5 59.53	+8 54.1	2.321	3.151	11.2	19.4	1 26	5 55.43	+35 1.6	2.423	3.253	10.8	20.2
<b>483539</b>	2003 UY <sub>258</sub>		12 26.5	29°63	1°3/26.3	17	<b>269882</b>	2000 GM <sub>21</sub>		12 26.5	122°74	3°6/26.2	18
11 17	6 49.97	+22 42.1	1.157	1.971	21.4	20.5	11 17	6 51.28	+33 48.7	2.525	3.280	12.7	20.5
11 27	6 47.44	+23 28.7	1.108	1.993	16.9	20.3	11 27	6 46.64	+34 23.2	2.439	3.286	10.3	20.4
12 7	6 41.06	+24 21.8	1.077	2.016	11.6	20.1	12 7	6 39.64	+34 53.9	2.377	3.291	7.5	20.2
12 17	6 31.69	+25 16.1	1.067	2.040	5.8	19.9	12 17	6 30.81	+35 17.0	2.341	3.296	4.8	20.0
12 27	6 20.92	+26 5.5	1.083	2.065	1.3	19.6	12 27	6 21.03	+35 29.4	2.334	3.302	3.6	20.0
1 6	6 10.64	+26 45.6	1.124	2.092	6.4	20.0	1 6	6 11.32	+35 29.6	2.357	3.307	5.2	20.1
1 16	6 2.51	+27 15.2	1.189	2.120	11.5	20.4	1 16	6 2.71	+35 18.4	2.409	3.312	7.9	20.3
1 26	5 57.69	+27 35.6	1.277	2.148	15.9	20.8	1 26	5 56.04	+34 58.3	2.487	3.317	10.6	20.5
<b>148207</b>	2000 CM <sub>100</sub>		12 26.5	242°51	1°3/26.7	18	<b>41143</b>	1999 VR <sub>129</sub>		12 26.5	114°88	4°0/26.7	18
11 17	6 52.59	+19 30.7	1.742	2.516	16.9	20.9	11 17	6 48.45	+12 55.9	2.271	3.024	14.1	19.7
11 27	6 48.58	+19 33.2	1.645	2.507	13.6	20.7	11 27	6 44.21	+12 14.0	2.186	3.029	11.4	19.5
12 7	6 41.54	+19 41.3	1.568	2.496	9.6	20.4	12 7	6 37.84	+11 38.0	2.123	3.035	8.4	19.3
12 17	6 31.97	+19 54.0	1.516	2.486	5.0	20.1	12 17	6 29.86	+11 9.7	2.086	3.040	5.5	19.2
12 27	6 20.90	+20 9.5	1.492	2.475	1.3	19.8	12 27	6 21.08	+10 50.4	2.078	3.046	4.0	19.1
1 6	6 9.71	+20 26.3	1.497	2.464	5.4	20.1	1 6	6 12.40	+10 40.7	2.100	3.051	5.6	19.2
1 16	5 59.80	+20 43.3	1.529	2.452	10.1	20.3	1 16	6 4.71	+10 40.5	2.150	3.056	8.6	19.4
1 26	5 52.34	+21 0.4	1.586	2.440	14.3	20.5	1 26	5 58.75	+10 48.8	2.225	3.061	11.5	19.6
<b>129105</b>	2004 XT <sub>20</sub>		12 26.5	29°19	0°2/26.6	18	<b>346456</b>	2008 TF <sub>66</sub>		12 26.5	336°49	0°5/26.5	18
11 17	6 48.02	+21 34.2	1.714	2.501	16.6								

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>454726</b>	2014 <i>SB</i> <sub>278</sub>		12 26.5 351°84	5°3/25.9	18		<b>260983</b>	2005 <i>SK</i> <sub>64</sub>		12 26.6 177°36	2°0/26.7	18	
11 17	6 52.36	+36 32.0	2.132	2.893	14.6	20.6	11 17	6 49.68	+17 6.9	2.396	3.151	13.4	21.5
11 27	6 48.22	+37 24.8	2.046	2.892	12.0	20.4	11 27	6 45.19	+16 54.9	2.303	3.152	10.7	21.3
12 7	6 41.15	+38 12.8	1.982	2.891	9.1	20.2	12 7	6 38.56	+16 47.3	2.233	3.154	7.6	21.1
12 17	6 31.72	+38 50.3	1.943	2.891	6.4	20.0	12 17	6 30.28	+16 44.3	2.189	3.154	4.2	20.9
12 27	6 20.99	+39 12.3	1.932	2.890	5.3	20.0	12 27	6 21.13	+16 45.4	2.176	3.154	2.1	20.7
1 6	6 10.27	+39 16.5	1.949	2.890	6.9	20.1	1 6	6 12.02	+16 50.4	2.192	3.154	4.4	20.9
1 16	6 0.89	+39 3.6	1.994	2.890	9.7	20.2	1 16	6 3.85	+16 58.7	2.238	3.154	7.8	21.1
1 26	5 53.92	+38 37.5	2.063	2.889	12.6	20.4	1 26	5 57.39	+17 10.0	2.311	3.153	10.8	21.3
<b>422371</b>	2014 <i>SC</i> <sub>251</sub>		12 26.5 67°84	1°0/26.5	18		<b>485603</b>	2011 <i>UC</i> <sub>275</sub>		12 26.6 12°56	2°1/26.6	17	
11 17	6 51.53	+26 35.2	2.079	2.848	14.7	20.8	11 17	6 49.36	+19 51.6	1.583	2.371	17.7	21.4
11 27	6 46.93	+26 33.4	2.006	2.865	11.6	20.6	11 27	6 46.05	+19 20.8	1.503	2.373	14.2	21.2
12 7	6 39.83	+26 30.3	1.955	2.882	8.0	20.4	12 7	6 39.73	+18 53.1	1.444	2.375	10.0	20.9
12 17	6 30.87	+26 24.1	1.930	2.900	4.1	20.2	12 17	6 31.03	+18 29.0	1.409	2.378	5.4	20.7
12 27	6 21.05	+26 13.3	1.934	2.917	1.0	20.0	12 27	6 21.09	+18 8.7	1.400	2.381	2.2	20.5
1 6	6 11.50	+25 57.7	1.968	2.934	4.4	20.3	1 6	6 11.32	+17 53.0	1.419	2.385	5.7	20.7
1 16	6 3.26	+25 38.4	2.031	2.952	8.1	20.6	1 16	6 3.03	+17 42.3	1.464	2.389	10.3	21.0
1 26	5 57.15	+25 17.5	2.120	2.969	11.4	20.8	1 26	5 57.27	+17 37.2	1.533	2.394	14.3	21.2
<b>404334</b>	2013 <i>FR</i> <sub>20</sub>		12 26.5 190°25	3°2/26.9	18		<b>186210</b>	2001 <i>WH</i> <sub>35</sub>		12 26.6 304°50	2°7/25.9	18	
11 17	6 49.22	+12 57.8	2.541	3.284	13.0	22.4	11 17	6 51.00	+26 30.6	1.917	2.693	15.5	20.0
11 27	6 44.67	+12 40.5	2.444	3.283	10.5	22.2	11 27	6 47.34	+27 31.8	1.821	2.684	12.4	19.8
12 7	6 38.12	+12 29.6	2.370	3.281	7.7	22.0	12 7	6 40.73	+28 37.2	1.747	2.675	8.8	19.5
12 17	6 30.03	+12 26.0	2.323	3.279	4.8	21.8	12 17	6 31.65	+29 42.1	1.699	2.667	4.9	19.3
12 27	6 21.10	+12 29.8	2.305	3.276	3.2	21.7	12 27	6 21.06	+30 41.0	1.680	2.658	2.7	19.1
1 6	6 12.18	+12 40.8	2.318	3.273	4.9	21.8	1 6	6 10.25	+31 29.4	1.689	2.650	5.7	19.3
1 16	6 4.10	+12 58.2	2.361	3.269	7.8	22.0	1 16	6 0.61	+32 5.4	1.727	2.642	9.7	19.5
1 26	5 57.59	+13 20.9	2.430	3.265	10.6	22.2	1 26	5 53.32	+32 29.7	1.790	2.634	13.4	19.7
<b>495701</b>	2016 <i>CZ</i> <sub>21</sub>		12 26.5 44°61	3°6/26.8	17		<b>149337</b>	2002 <i>VD</i> <sub>78</sub>		12 26.6 359°79	2°1/26.2	18	
11 17	6 53.68	+35 7.7	2.147	2.907	14.5	20.7	11 17	6 48.65	+23 14.3	1.183	1.998	21.0	19.1
11 27	6 48.83	+35 7.1	2.065	2.913	11.8	20.5	11 27	6 46.92	+24 11.8	1.109	1.995	16.8	18.8
12 7	6 41.25	+34 59.1	2.003	2.920	8.6	20.3	12 7	6 41.24	+25 18.6	1.054	1.993	11.8	18.5
12 17	6 31.62	+34 40.2	1.968	2.926	5.3	20.1	12 17	6 32.14	+26 29.2	1.020	1.993	6.1	18.2
12 27	6 21.03	+34 8.4	1.961	2.933	3.6	20.0	12 27	6 21.04	+27 36.1	1.011	1.993	2.1	18.0
1 6	6 10.73	+33 24.0	1.984	2.940	5.5	20.2	1 6	6 9.88	+28 32.6	1.027	1.995	7.0	18.3
1 16	6 1.87	+32 29.9	2.036	2.947	8.7	20.4	1 16	6 0.64	+29 15.4	1.067	1.997	12.6	18.6
1 26	5 55.33	+31 30.6	2.113	2.954	11.8	20.6	1 26	5 54.87	+29 45.3	1.128	2.001	17.4	18.9
<b>339065</b>	2004 <i>PC</i> <sub>55</sub>		12 26.5 94°33	15°6/29.2	17		<b>78340</b>	2002 <i>PS</i> <sub>89</sub>		12 26.6 138°26	5°7/26.9	17	
11 17	7 20.68	+53 55.7	1.139	1.881	25.8	20.3	11 17	6 46.83	+ 6 10.0	2.581	3.309	13.1	20.3
11 27	7 15.16	+55 9.7	1.085	1.892	22.9	20.2	11 27	6 42.66	+ 5 19.6	2.495	3.314	11.0	20.2
12 7	7 2.04	+55 59.1	1.045	1.904	19.7	20.0	12 7	6 36.65	+ 4 38.0	2.432	3.319	8.6	20.0
12 17	6 42.63	+56 4.8	1.022	1.915	17.0	19.9	12 17	6 29.27	+ 4 7.8	2.395	3.324	6.6	19.9
12 27	6 20.52	+55 11.6	1.019	1.926	15.6	19.8	12 27	6 21.19	+ 3 51.0	2.386	3.329	5.7	19.9
1 6	6 0.32	+53 19.4	1.038	1.937	16.2	19.9	1 6	6 13.18	+ 3 48.0	2.406	3.334	6.6	19.9
1 16	5 45.48	+50 43.3	1.079	1.947	18.4	20.1	1 16	6 5.99	+ 3 58.4	2.454	3.338	8.6	20.1
1 26	5 37.37	+47 45.7	1.140	1.958	21.2	20.3	1 26	6 0.26	+ 4 20.2	2.528	3.342	10.9	20.2
<b>14687</b>	1999 <i>YR</i> <sub>13</sub>		12 26.5 206°66	0°2/26.5	18		<b>139539</b>	2001 <i>QJ</i> <sub>36</sub>		12 26.6 66°62	1°3/26.7	18	
11 17	6 55.22	+23 56.8	2.054	2.815	15.1	18.5	11 17	6 51.85	+19 21.4	1.782	2.556	16.6	20.2
11 27	6 50.17	+23 57.8	1.955	2.809	12.1	18.3	11 27	6 47.46	+19 22.9	1.716	2.578	13.1	20.0
12 7	6 42.35	+23 59.8	1.877	2.803	8.4	18.1	12 7	6 40.35	+19 29.5	1.671	2.599	9.1	19.8
12 17	6 32.30	+24 0.8	1.826	2.796	4.3	17.8	12 17	6 31.20	+19 40.1	1.652	2.621	4.7	19.6
12 27	6 21.00	+23 58.9	1.805	2.788	0.3	17.5	12 27	6 21.10	+19 53.2	1.660	2.643	1.3	19.4
1 6	6 9.68	+23 53.2	1.814	2.780	4.7	17.8	1 6	6 11.29	+20 7.4	1.698	2.664	4.9	19.7
1 16	5 59.56	+23 44.3	1.852	2.770	8.9	18.1	1 16	6 2.92	+20 22.0	1.763	2.686	9.0	20.0
1 26	5 51.68	+23 33.8	1.916	2.760	12.6	18.3	1 26	5 56.86	+20 36.8	1.854	2.707	12.6	20.2
<b>240056</b>	2001 <i>WP</i> <sub>38</sub>		12 26.5 46°28	1°3/26.3	18		<b>375578</b>	2008 <i>UV</i> <sub>355</sub>		12 26.6 322°64	0°7/26.5	18	
11 17	6 53.46	+21 5.1	1.324	2.120	20.2	19.5	11 17	6 47.82	+24 16.2	2.319	3.088	13.3	21.1
11 27	6 49.97	+22 14.4	1.262	2.136	16.0	19.3	11 27	6 44.02	+24 36.5	2.224	3.084	10.6	21.0
12 7	6 42.80	+23 33.7	1.219	2.154	11.0	19.1	12 7	6 37.94	+24 58.6	2.152	3.080	7.4	20.7
12 17	6 32.68	+24 57.0	1.200	2.172	5.5	18.8	12 17	6 30.05	+25 20.6	2.106	3.076	3.7	20.5
12 27	6 20.98	+26 16.7	1.208	2.190	1.4	18.6	12 27	6 21.15	+25 40.3	2.090	3.073	0.8	20.3
1 6	6 9.51	+27 26.4	1.242	2.209	6.2	19.0	1 6	6 12.24	+25 55.9	2.103	3.069	4.2	20.5
1 16	5 59.95	+28 22.7	1.303	2.228	11.2	19.3	1 16	6 4.30	+26 7.1	2.146	3.066	7.8	20.7
1 26	5 53.57	+29 6.2	1.387	2.248	15.5	19.6	1 26	5 58.17	+26 14.4	2.214	3.063	11.0	20.9
<b>61430</b>	2000 <i>QJ</i> <sub>17</sub>		12 26.6 33°34	5°4/27.4	18		<b>266440</b>	2007 <i>HK</i> <sub>36</sub>		12 26.6 211°87	0°5/26.6	18	
11 17	6 48.68	+11 13.9	1.233	2.029	21.4	18.1	11 17	6 48.95	+21 26.7	2.616	3.373	12.3	22.0
11 27	6 45.98	+10 55.9	1.177	2.045	17.4	17.9	11 27	6 44.54	+21 25.3	2.515	3.368	9.8	21.8
12 7	6 39.86	+10 53.5	1.137	2.061	12.8	17.7	12 7	6 38.09	+21 25.9	2.438	3.363	6.8	21.6
12 17	6 31.11	+11 8.6	1.119	2.079	8.1	17.5	12 17	6 30.05	+21 27.7	2.388	3.357	3.5	21.4
12 27	6 21.07	+11 40.8	1.125	2.098	5.4	17.4	12 27	6 21.16	+21 29.7	2.368	3.351	0.6	21.1
1 6	6 11.38	+12 27.1	1.157	2.117	7.7	17.6	1 6	6 12.26	+21 31.3	2.379	3.345	3.8	21.4
1 16	6 3.51	+13 23.1	1.213	2.137	12.0	17.9	1 16	6 4.21	+21 32.4	2.420	3.338	7.1	21.6
1 26	5 58.55	+14 24.2	1.291	2.158	16.0	18.2	1 26	5 57.76	+21 33.4	2.488	3.331	10.1	21.7
<b>79506</b>	1998 <i>HG</i> <sub>7</sub>		12 26.6 146°16	9°4/24.6	18 R		<b>95749</b>	2003 <i>EB</i> <sub>25</sub>		12 26.			

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>131482</b>	2001 <i>SF</i> <sub>30</sub>		12 26.6	40°80	0°3/26.5	18	<b>439204</b>	2012 <i>RR</i> <sub>13</sub>		12 26.6	75°82	1°1/26.5	16
11 17	6 53.17	+23 10.1	1.122	1.934	22.1	20.4	11 17	6 56.09	+24 53.5	1.547	2.329	18.4	21.4
11 27	6 50.36	+23 19.7	1.059	1.943	17.6	20.2	11 27	6 51.37	+25 13.3	1.485	2.351	14.5	21.2
12 7	6 43.40	+23 33.6	1.014	1.952	12.3	19.9	12 7	6 43.34	+25 34.9	1.443	2.374	10.0	21.0
12 17	6 33.08	+23 48.9	0.989	1.962	6.2	19.6	12 17	6 32.80	+25 54.5	1.426	2.396	5.1	20.8
12 27	6 21.02	+24 1.6	0.989	1.972	0.5	19.2	12 27	6 21.08	+26 8.7	1.436	2.418	1.2	20.6
1 6	6 9.30	+24 9.6	1.014	1.983	6.6	19.7	1 6	6 9.76	+26 15.8	1.474	2.440	5.5	20.9
1 16	5 59.83	+24 12.9	1.063	1.995	12.4	20.1	1 16	6 0.28	+26 16.4	1.539	2.462	10.0	21.2
1 26	5 53.97	+24 13.4	1.133	2.007	17.3	20.4	1 26	5 53.65	+26 12.6	1.629	2.483	14.0	21.5
<b>412293</b>	2013 <i>JW</i> <sub>36</sub>		12 26.6	224°74	2°3/26.2	17	<b>334184</b>	2001 <i>SV</i> <sub>164</sub>		12 26.6	13°21	24°2/22.0	17
11 17	6 51.78	+27 33.7	2.208	2.973	14.0	21.1	11 17	7 3.26	+56 13.2	0.873	1.658	29.0	19.5
11 27	6 47.44	+28 15.4	2.112	2.968	11.2	20.9	11 27	7 5.88	+60 11.7	0.839	1.659	26.9	19.3
12 7	6 40.48	+28 58.3	2.039	2.963	7.9	20.7	12 7	6 59.74	+63 44.0	0.820	1.663	25.2	19.2
12 17	6 31.41	+29 38.7	1.992	2.958	4.4	20.4	12 17	6 43.74	+66 24.6	0.814	1.667	24.3	19.2
12 27	6 21.10	+30 12.7	1.974	2.953	2.3	20.3	12 27	6 20.50	+67 49.1	0.824	1.673	24.3	19.2
1 6	6 10.71	+30 37.6	1.986	2.947	5.0	20.5	1 6	5 57.04	+67 48.8	0.846	1.681	25.1	19.3
1 16	6 1.39	+30 52.8	2.027	2.941	8.6	20.7	1 16	5 40.64	+66 35.6	0.881	1.690	26.5	19.5
1 26	5 54.14	+30 59.6	2.095	2.935	11.9	20.9	1 26	5 34.65	+64 32.9	0.928	1.700	28.1	19.6
<b>484359</b>	2007 <i>VL</i> <sub>83</sub>		12 26.6	4°03	1°5/26.1	18	<b>316397</b>	2010 <i>TZ</i> <sub>56</sub>		12 26.6	109°05	1°8/26.5	18
11 17	6 49.72	+20 23.3	1.445	2.240	18.8	20.7	11 17	6 52.24	+28 1.0	2.051	2.820	14.8	21.0
11 27	6 47.04	+21 46.3	1.365	2.239	15.0	20.5	11 27	6 47.78	+28 12.1	1.967	2.826	11.8	20.8
12 7	6 40.92	+23 22.4	1.305	2.239	10.4	20.2	12 7	6 40.64	+28 21.7	1.905	2.831	8.3	20.6
12 17	6 31.88	+25 6.2	1.269	2.241	5.3	19.9	12 17	6 31.43	+28 27.1	1.868	2.836	4.4	20.4
12 27	6 21.07	+26 49.5	1.261	2.243	1.6	19.7	12 27	6 21.15	+28 25.7	1.861	2.842	1.8	20.2
1 6	6 10.10	+28 24.3	1.280	2.246	6.2	20.0	1 6	6 11.01	+28 16.7	1.883	2.847	4.8	20.5
1 16	6 0.64	+29 45.2	1.326	2.250	11.2	20.3	1 16	6 2.17	+28 1.2	1.933	2.852	8.6	20.7
1 26	5 54.08	+30 50.7	1.395	2.255	15.5	20.5	1 26	5 55.54	+27 41.3	2.009	2.857	12.0	20.9
<b>176916</b>	2002 <i>VU</i> <sub>87</sub>		12 26.6	343°48	2°0/26.4	17	<b>92761</b>	2000 <i>QD</i> <sub>122</sub>		12 26.6	181°81	3°2/26.8	18
11 17	6 49.52	+22 1.5	1.573	2.364	17.7	19.7	11 17	6 52.60	+14 20.7	2.230	2.977	14.4	20.6
11 27	6 46.33	+21 11.4	1.485	2.357	14.2	19.4	11 27	6 47.64	+13 58.0	2.136	2.979	11.7	20.4
12 7	6 40.02	+20 20.2	1.418	2.350	10.0	19.2	12 7	6 40.35	+13 41.4	2.065	2.979	8.5	20.2
12 17	6 31.23	+19 28.7	1.374	2.344	5.3	18.9	12 17	6 31.25	+13 31.7	2.020	2.979	5.1	20.0
12 27	6 21.11	+18 38.4	1.357	2.339	2.0	18.6	12 27	6 21.16	+13 29.1	2.005	2.978	3.2	19.9
1 6	6 11.11	+17 51.6	1.368	2.334	5.9	18.9	1 6	6 11.12	+13 33.6	2.019	2.977	5.3	20.0
1 16	6 2.59	+17 11.1	1.406	2.331	10.6	19.1	1 16	6 2.09	+13 44.6	2.064	2.974	8.6	20.2
1 26	5 56.67	+16 38.7	1.467	2.328	14.8	19.4	1 26	5 54.94	+14 1.2	2.134	2.971	11.8	20.4
<b>414725</b>	2009 <i>XP</i> <sub>11</sub>		12 26.6	19°71	3°4/27.3	17	<b>394518</b>	2007 <i>TB</i> <sub>312</sub>		12 26.6	124°40	1°0/26.7	18
11 17	6 46.32	+12 43.4	1.737	2.513	16.9	20.2	11 17	6 51.75	+20 2.6	1.895	2.665	15.9	21.9
11 27	6 43.30	+12 52.7	1.662	2.521	13.6	20.0	11 27	6 47.47	+20 7.2	1.811	2.671	12.6	21.7
12 7	6 37.66	+13 13.9	1.607	2.529	9.9	19.8	12 7	6 40.49	+20 16.5	1.750	2.677	8.8	21.5
12 17	6 29.96	+13 47.0	1.576	2.538	5.9	19.6	12 17	6 31.40	+20 29.2	1.713	2.683	4.5	21.2
12 27	6 21.18	+14 30.6	1.572	2.548	3.4	19.4	12 27	6 21.17	+20 43.6	1.705	2.688	1.0	21.0
1 6	6 12.49	+15 21.9	1.596	2.559	5.7	19.6	1 6	6 11.05	+20 58.2	1.727	2.693	4.8	21.2
1 16	6 5.03	+16 17.7	1.647	2.570	9.5	19.9	1 16	6 2.19	+21 12.4	1.777	2.699	9.0	21.5
1 26	5 59.74	+17 15.0	1.723	2.582	13.1	20.1	1 26	5 55.56	+21 26.2	1.852	2.703	12.7	21.7
<b>235451</b>	2003 <i>YL</i> <sub>148</sub>		12 26.6	12°13	8°3/26.9	16	<b>235648</b>	2004 <i>RA</i> <sub>147</sub>		12 26.6	46°78	3°2/26.9	18
11 17	6 50.68	+41 53.1	1.479	2.262	19.0	19.5	11 17	6 50.61	+15 58.9	1.525	2.308	18.5	20.2
11 27	6 48.20	+42 38.5	1.416	2.269	15.9	19.3	11 27	6 47.11	+15 41.3	1.450	2.314	14.9	20.0
12 7	6 41.74	+43 11.0	1.372	2.279	12.5	19.1	12 7	6 40.52	+15 31.9	1.394	2.321	10.7	19.7
12 17	6 32.16	+43 22.7	1.350	2.289	9.6	19.0	12 17	6 31.49	+15 31.4	1.362	2.328	6.1	19.5
12 27	6 21.08	+43 7.7	1.352	2.302	8.3	18.9	12 27	6 21.17	+15 39.4	1.357	2.335	3.2	19.3
1 6	6 10.47	+42 25.5	1.379	2.316	9.6	19.1	1 6	6 11.01	+15 55.0	1.378	2.342	6.2	19.5
1 16	6 2.07	+41 20.9	1.430	2.331	12.4	19.3	1 16	6 2.38	+16 16.6	1.427	2.350	10.6	19.8
1 26	5 57.06	+40 2.2	1.504	2.347	15.5	19.5	1 26	5 56.34	+16 42.9	1.498	2.358	14.7	20.1
<b>218339</b>	2004 <i>BF</i> <sub>121</sub>		12 26.6	47°62	5°0/27.2	18	<b>230708</b>	2003 <i>UX</i> <sub>133</sub>		12 26.6	89°36	0°6/26.6	18
11 17	6 50.88	+12 22.6	1.339	2.125	20.5	20.5	11 17	6 51.44	+25 58.7	2.365	3.126	13.3	20.2
11 27	6 47.66	+12 0.4	1.269	2.133	16.7	20.3	11 27	6 46.54	+25 49.5	2.288	3.142	10.5	20.1
12 7	6 41.06	+11 51.1	1.218	2.141	12.2	20.0	12 7	6 39.43	+25 39.1	2.233	3.159	7.3	19.9
12 17	6 31.79	+11 56.7	1.190	2.150	7.7	19.8	12 17	6 30.70	+25 26.0	2.206	3.176	3.7	19.7
12 27	6 21.10	+12 17.3	1.186	2.159	5.0	19.7	12 27	6 21.22	+25 9.5	2.209	3.192	0.6	19.5
1 6	6 10.61	+12 51.1	1.208	2.168	7.5	19.8	1 6	6 11.97	+24 49.5	2.242	3.208	3.9	19.7
1 16	6 1.81	+13 35.0	1.256	2.178	11.9	20.1	1 16	6 3.86	+24 27.3	2.305	3.224	7.4	20.0
1 26	5 55.88	+14 25.2	1.326	2.188	16.0	20.4	1 26	5 57.63	+24 4.5	2.395	3.239	10.4	20.2
<b>243168</b>	2007 <i>TD</i> <sub>110</sub>		12 26.6	173°69	7°1/26.9	18	<b>45300</b>	<i>Thewrewk</i>		12 26.6	117°68	0°9/26.6	18
11 17	6 49.98	+ 4 31.1	2.162	2.890	15.4	20.6	11 17	6 49.58	+21 43.5	2.450	3.210	13.0	18.2
11 27	6 45.55	+ 3 31.3	2.076	2.892	13.0	20.5	11 27	6 45.04	+21 21.5	2.363	3.217	10.3	18.1
12 7	6 38.88	+ 2 42.6	2.011	2.894	10.4	20.3	12 7	6 38.41	+21 0.3	2.298	3.223	7.1	17.9
12 17	6 30.49	+ 2 8.5	1.971	2.895	8.1	20.2	12 17	6 30.21	+20 39.7	2.261	3.229	3.7	17.7
12 27	6 21.17	+ 1 52.1	1.958	2.896	7.1	20.1	12 27	6 21.24	+20 19.6	2.253	3.236	0.9	17.5
1 6	6 11.91	+ 1 54.1	1.974	2.896	8.1	20.2	1 6	6 12.41	+20 0.2	2.277	3.242	3.9	17.7
1 16	6 3.65	+ 2 13.6	2.016	2.897	10.4	20.3	1 16	6 4.57	+19 42.4	2.329	3.248	7.3	17.9
1 26	5 57.18	+ 2 47.7	2.083	2.896	13.0	20.5	1 26	5 58.45	+19 26.9	2.409	3.254	10.4	18.1
<b>233659</b>	2008 <i>QM</i> <sub>28</sub>		12 26.6	87°38	3°7/26.2	18	<b>260302</b>	2004 <i>TK</i> <sub>117</sub>		12			

EPHEMERIDES

12 26.6

12 26.6

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>420568</b>	2012 <i>HU</i> <sub>9</sub>		12 26.6	99°87	1.9°/26.1	18	<b>71526</b>	2000 <i>CO</i> <sub>81</sub>		12 26.6	298°97	0.3°/26.6	18
11 17	6 51.37	+26 44.6	2.602	3.357	12.4	21.0	11 17	6 47.93	+22 4.5	2.168	2.940	14.1	19.1
11 27	6 46.51	+27 36.7	2.522	3.373	9.8	20.9	11 27	6 44.37	+22 7.2	2.062	2.923	11.3	18.9
12 7	6 39.48	+28 29.9	2.467	3.389	6.8	20.7	12 7	6 38.38	+22 12.4	1.978	2.906	7.9	18.7
12 17	6 30.79	+29 20.8	2.439	3.405	3.7	20.5	12 17	6 30.40	+22 19.1	1.919	2.889	4.0	18.4
12 27	6 21.22	+30 5.9	2.442	3.421	1.9	20.4	12 27	6 21.26	+22 25.7	1.890	2.873	0.4	18.1
1 6	6 11.70	+30 42.9	2.477	3.436	4.2	20.6	1 6	6 12.00	+22 31.4	1.889	2.857	4.4	18.3
1 16	6 3.13	+31 11.0	2.541	3.452	7.2	20.8	1 16	6 3.70	+22 35.7	1.918	2.840	8.4	18.6
1 26	5 56.31	+31 30.9	2.633	3.466	10.0	21.0	1 26	5 57.30	+22 39.1	1.972	2.824	12.0	18.8
<b>247463</b>	2002 <i>GQ</i> <sub>144</sub>		12 26.6	212°51	4.1°/27.1	18	<b>186375</b>	2002 <i>GV</i> <sub>162</sub>		12 26.6	327°72	3.0°/26.9	18
11 17	6 50.94	+10 52.1	2.248	2.991	14.5	21.4	11 17	6 50.37	+16 55.4	1.287	2.086	20.5	20.2
11 27	6 46.42	+10 39.8	2.147	2.984	11.9	21.2	11 27	6 47.78	+16 44.6	1.206	2.080	16.6	19.9
12 7	6 39.59	+10 36.7	2.068	2.976	8.8	20.9	12 7	6 41.55	+16 43.0	1.142	2.074	11.9	19.6
12 17	6 30.93	+10 43.9	2.015	2.968	5.8	20.7	12 17	6 32.26	+16 51.1	1.101	2.069	6.6	19.3
12 27	6 21.21	+11 1.6	1.991	2.959	4.1	20.6	12 27	6 21.18	+17 8.2	1.084	2.065	3.0	19.1
1 6	6 11.42	+11 29.1	1.997	2.950	5.7	20.7	1 6	6 10.06	+17 32.3	1.093	2.060	6.8	19.3
1 16	6 2.54	+12 4.7	2.032	2.940	8.9	20.9	1 16	6 0.62	+18 1.5	1.127	2.056	12.2	19.6
1 26	5 55.43	+12 46.4	2.093	2.929	12.0	21.1	1 26	5 54.27	+18 33.9	1.183	2.053	17.0	19.8
<b>262499</b>	2006 <i>UF</i> <sub>236</sub>		12 26.6	302°81	3.7°/26.7	18	<b>471964</b>	2013 <i>TQ</i> <sub>34</sub>		12 26.6	43°04	2.9°/26.2	18
11 17	6 49.56	+16 53.8	1.363	2.159	19.7	20.7	11 17	6 54.23	+25 50.7	1.114	1.926	22.2	20.8
11 27	6 47.09	+16 21.7	1.268	2.140	16.1	20.4	11 27	6 51.27	+26 44.5	1.061	1.944	17.7	20.6
12 7	6 41.11	+15 55.6	1.191	2.122	11.7	20.1	12 7	6 44.05	+27 42.0	1.026	1.963	12.3	20.4
12 17	6 32.08	+15 37.2	1.137	2.104	6.8	19.8	12 17	6 33.44	+28 36.3	1.012	1.982	6.5	20.1
12 27	6 21.16	+15 27.7	1.107	2.086	3.7	19.6	12 27	6 21.14	+29 20.1	1.022	2.003	3.0	20.0
1 6	6 9.98	+15 27.5	1.104	2.068	7.2	19.7	1 6	6 9.32	+29 48.8	1.058	2.024	7.2	20.3
1 16	6 0.28	+15 36.3	1.125	2.051	12.5	20.0	1 16	5 59.90	+30 2.7	1.118	2.045	12.4	20.6
1 26	5 53.51	+15 53.4	1.168	2.035	17.4	20.2	1 26	5 54.20	+30 5.3	1.199	2.067	16.9	21.0
<b>249816</b>	2001 <i>FD</i> <sub>90</sub>		12 26.6	236°39	3.8°/26.7	13 C	<b>189737</b>	2001 <i>XA</i> <sub>71</sub>		12 26.6	103°39	1.1°/26.7	18
11 17	6 58.28	+13 40.8	2.141	2.877	15.3	23.9	11 17	6 55.57	+20 25.5	1.783	2.551	16.8	20.5
11 27	6 52.60	+13 14.1	2.020	2.855	12.6	23.7	11 27	6 50.44	+20 21.5	1.714	2.571	13.3	20.3
12 7	6 44.16	+12 53.4	1.921	2.831	9.3	23.4	12 7	6 42.46	+20 21.4	1.665	2.591	9.3	20.1
12 17	6 33.38	+12 39.7	1.848	2.805	5.8	23.1	12 17	6 32.34	+20 23.9	1.642	2.611	4.7	19.9
12 27	6 21.11	+12 33.8	1.806	2.778	3.8	23.0	12 27	6 21.19	+20 27.6	1.647	2.630	1.1	19.6
1 6	6 8.52	+12 36.0	1.794	2.749	6.1	23.0	1 6	6 10.36	+20 31.6	1.682	2.648	5.0	20.0
1 16	5 56.84	+12 46.1	1.813	2.718	9.9	23.2	1 16	6 1.03	+20 35.9	1.745	2.666	9.2	20.3
1 26	5 47.21	+13 3.2	1.858	2.686	13.7	23.4	1 26	5 54.16	+20 40.8	1.834	2.684	12.9	20.5
<b>487601</b>	2015 <i>LC</i> <sub>34</sub>		12 26.6	55°80	3.4°/27.4	17	<b>74713</b>	1999 <i>RO</i> <sub>156</sub>		12 26.6	36°28	2.6°/26.5	18
11 17	6 51.74	+11 57.9	1.555	2.326	18.7	20.7	11 17	6 54.06	+28 37.2	1.243	2.046	20.8	19.4
11 27	6 47.81	+12 22.4	1.489	2.345	15.1	20.6	11 27	6 50.90	+28 49.6	1.176	2.054	16.7	19.1
12 7	6 40.88	+13 1.5	1.442	2.363	10.9	20.3	12 7	6 43.70	+28 59.9	1.127	2.062	11.7	18.8
12 17	6 31.63	+13 54.3	1.420	2.382	6.4	20.1	12 17	6 33.25	+29 3.5	1.101	2.071	6.3	18.6
12 27	6 21.20	+14 58.0	1.424	2.401	3.4	20.0	12 27	6 21.15	+28 56.1	1.099	2.080	2.7	18.4
1 6	6 10.99	+16 8.0	1.457	2.421	6.0	20.2	1 6	6 9.42	+28 36.8	1.124	2.090	6.7	18.7
1 16	6 2.28	+17 19.9	1.517	2.440	10.1	20.5	1 16	5 59.89	+28 8.3	1.172	2.101	11.9	19.0
1 26	5 56.12	+18 30.1	1.602	2.460	14.0	20.8	1 26	5 53.86	+27 35.4	1.244	2.111	16.5	19.3
<b>274061</b>	2007 <i>TC</i> <sub>135</sub>		12 26.6	134°37	5.0°/27.3	17	<b>348373</b>	2005 <i>EO</i> <sub>288</sub>		12 26.6	305°98	3.6°/27.4	18
11 17	6 45.97	+ 6 28.9	2.671	3.400	12.7	21.4	11 17	6 49.41	+11 38.2	1.731	2.498	17.3	20.6
11 27	6 41.97	+ 6 2.1	2.584	3.405	10.6	21.3	11 27	6 46.04	+11 55.0	1.636	2.489	14.1	20.4
12 7	6 36.20	+ 5 44.8	2.519	3.410	8.2	21.1	12 7	6 39.83	+12 26.0	1.562	2.481	10.4	20.1
12 17	6 29.11	+ 5 38.8	2.480	3.415	6.0	21.0	12 17	6 31.24	+13 11.5	1.511	2.472	6.3	19.8
12 27	6 21.32	+ 5 45.0	2.469	3.419	5.0	21.0	12 27	6 21.23	+14 10.0	1.488	2.464	3.6	19.7
1 6	6 13.58	+ 6 3.2	2.488	3.424	5.9	21.0	1 6	6 11.06	+15 18.0	1.494	2.456	6.0	19.8
1 16	6 6.60	+ 6 32.2	2.535	3.428	8.0	21.2	1 16	6 2.03	+16 31.3	1.527	2.449	10.2	20.0
1 26	6 1.03	+ 7 9.7	2.609	3.432	10.3	21.3	1 26	5 55.28	+17 46.0	1.585	2.441	14.2	20.2
<b>460967</b>	2014 <i>WD</i> <sub>297</sub>		12 26.6	286°10	1.4°/26.9	18	<b>159747</b>	2003 <i>FW</i> <sub>42</sub>		12 26.6	252°28	1.8°/26.7	18
11 17	6 47.84	+16 46.5	2.393	3.151	13.3	21.1	11 17	6 52.15	+18 38.5	1.849	2.618	16.2	20.7
11 27	6 43.89	+17 10.6	2.297	3.149	10.6	20.9	11 27	6 48.13	+18 30.5	1.746	2.605	13.1	20.5
12 7	6 37.80	+17 41.8	2.224	3.146	7.5	20.7	12 7	6 41.23	+18 27.6	1.664	2.590	9.3	20.2
12 17	6 30.01	+18 19.1	2.177	3.144	4.0	20.4	12 17	6 31.93	+18 29.4	1.607	2.575	5.0	19.9
12 27	6 21.27	+19 0.5	2.160	3.142	1.4	20.2	12 27	6 21.21	+18 35.1	1.579	2.560	1.8	19.7
1 6	6 12.48	+19 44.0	2.174	3.139	4.1	20.4	1 6	6 10.33	+18 43.7	1.579	2.544	5.3	19.9
1 16	6 4.54	+20 27.5	2.217	3.137	7.6	20.7	1 16	6 0.60	+18 54.7	1.607	2.528	9.8	20.1
1 26	5 58.27	+21 9.8	2.287	3.135	10.7	20.9	1 26	5 53.15	+19 7.9	1.661	2.512	13.9	20.3
<b>330104</b>	2005 <i>WF</i> <sub>189</sub>		12 26.6	352°30	0.5°/26.7	17	<b>24303</b>	Michaelrice		12 26.6	53°65	4.9°/27.2	18
11 17	6 44.92	+19 3.0	1.466	2.267	18.3	20.2	11 17	6 52.27	+12 48.9	1.264	2.054	21.3	17.6
11 27	6 43.09	+19 38.9	1.381	2.259	14.7	19.9	11 27	6 48.77	+12 24.5	1.206	2.072	17.2	17.4
12 7	6 38.10	+20 25.2	1.316	2.252	10.3	19.6	12 7	6 41.79	+12 13.3	1.166	2.090	12.5	17.2
12 17	6 30.46	+21 19.7	1.274	2.246	5.2	19.3	12 17	6 32.14	+12 16.9	1.148	2.109	7.7	17.0
12 27	6 21.25	+22 18.5	1.258	2.241	0.5	19.0	12 27	6 21.21	+12 35.2	1.155	2.129	4.9	16.9
1 6	6 11.93	+23 16.9	1.269	2.238	5.6	19.3	1 6	6 10.68	+13 6.2	1.187	2.148	7.5	17.1
1 16	6 3.99	+24 11.2	1.305	2.236	10.7	19.6	1 16	6 2.03	+13 46.5	1.245	2.168	11.9	17.4
1 26	5 58.71	+24 59.6	1.365	2.236	15.1	19.9	1 26	5 56.36	+14 32.8	1.325	2.188	16.0	17.7
<b>185971</b>	2001 <i>JX</i> <sub>7</sub>		12 26.6	210°94	1.6°/26.4	18	<b>406767</b>	2008 <i>KS</i> <sub>42</sub>		12			

EPHEMERIDES

12 26.6

12 26.6

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>74063</b>	1998 <i>KQ</i> <sub>39</sub>		12 26.6	96°46	0°5/26.5	18	<b>40020</b>	1998 <i>HX</i> <sub>136</sub>		12 26.6	126°20	1°1/26.4	18
11 17	6 56.26	+23 9.0	2.092	2.849	15.0	20.0	11 17	6 54.41	+24 16.5	1.994	2.760	15.3	19.5
11 27	6 50.55	+23 32.0	2.026	2.879	11.8	19.8	11 27	6 49.53	+24 48.1	1.915	2.772	12.2	19.4
12 7	6 42.31	+23 57.2	1.983	2.908	8.1	19.7	12 7	6 41.91	+25 22.3	1.857	2.783	8.4	19.1
12 17	6 32.20	+24 21.9	1.967	2.937	4.1	19.5	12 17	6 32.15	+25 55.8	1.825	2.795	4.3	18.9
12 27	6 21.24	+24 43.5	1.981	2.964	0.5	19.2	12 27	6 21.26	+26 25.3	1.823	2.806	1.1	18.7
1 6	6 10.58	+25 0.4	2.026	2.992	4.3	19.6	1 6	6 10.48	+26 48.4	1.851	2.816	4.7	19.0
1 16	6 1.28	+25 12.4	2.101	3.018	8.1	19.9	1 16	6 1.01	+27 4.5	1.908	2.826	8.7	19.3
1 26	5 54.17	+25 20.5	2.202	3.044	11.3	20.1	1 26	5 53.81	+27 14.9	1.991	2.836	12.2	19.5
<b>287451</b>	2002 <i>XU</i> <sub>115</sub>		12 26.6	282°32	1°7/26.5	18	<b>440131</b>	2003 <i>SR</i> <sub>329</sub>		12 26.6	32°64	1°7/26.5	17
11 17	6 51.16	+27 34.1	2.002	2.774	15.0	20.6	11 17	6 51.19	+26 0.4	1.307	2.111	20.0	21.4
11 27	6 47.21	+27 43.8	1.903	2.764	12.1	20.3	11 27	6 48.20	+26 20.2	1.248	2.127	15.8	21.2
12 7	6 40.49	+27 52.6	1.827	2.754	8.5	20.1	12 7	6 41.57	+26 41.1	1.208	2.144	11.0	21.0
12 17	6 31.51	+27 57.6	1.775	2.744	4.5	19.8	12 17	6 32.10	+26 59.0	1.190	2.162	5.7	20.7
12 27	6 21.26	+27 56.4	1.753	2.734	1.7	19.6	12 27	6 21.26	+27 10.2	1.198	2.181	1.7	20.5
1 6	6 10.98	+27 47.7	1.759	2.724	5.0	19.8	1 6	6 10.85	+27 12.9	1.232	2.200	6.1	20.8
1 16	6 1.90	+27 32.3	1.793	2.714	9.0	20.0	1 16	6 2.42	+27 8.0	1.292	2.221	11.0	21.2
1 26	5 55.07	+27 12.4	1.853	2.704	12.7	20.3	1 26	5 57.12	+26 58.2	1.374	2.242	15.2	21.5
<b>521925</b>	2015 <i>UH</i> <sub>88</sub>		12 26.6	103°57	0°9/26.7	18	<b>354292</b>	2002 <i>SK</i> <sub>12</sub>		12 26.6	120°08	7°2/25.8	18
11 17	6 51.52	+20 47.1	1.961	2.730	15.4	21.5	11 17	6 59.45	+41 18.9	2.090	2.833	15.4	20.6
11 27	6 47.16	+20 45.2	1.880	2.739	12.3	21.3	11 27	6 54.13	+42 31.3	2.017	2.844	12.9	20.5
12 7	6 40.21	+20 46.7	1.821	2.749	8.5	21.1	12 7	6 45.45	+43 35.7	1.965	2.856	10.2	20.3
12 17	6 31.26	+20 50.6	1.788	2.758	4.4	20.9	12 17	6 34.04	+44 24.6	1.939	2.867	8.0	20.2
12 27	6 21.28	+20 55.5	1.784	2.766	0.9	20.6	12 27	6 21.18	+44 51.5	1.940	2.877	7.2	20.2
1 6	6 11.45	+21 0.6	1.808	2.775	4.6	20.9	1 6	6 8.46	+44 53.9	1.968	2.887	8.4	20.3
1 16	6 2.87	+21 5.5	1.862	2.784	8.7	21.2	1 16	5 57.42	+44 33.8	2.024	2.897	10.7	20.4
1 26	5 56.44	+21 10.8	1.941	2.792	12.2	21.4	1 26	5 49.24	+43 56.7	2.104	2.907	13.2	20.6
<b>48709</b>	1996 <i>LX</i> <sub>2</sub>		12 26.6	315°98	4°9/26.9	18	<b>381834</b>	2009 <i>WO</i> <sub>27</sub>		12 26.6	2°03	0°2/26.6	18
11 17	6 49.41	+12 51.5	1.522	2.302	18.7	19.6	11 17	6 48.60	+23 28.1	1.194	2.009	20.9	20.7
11 27	6 46.33	+12 20.6	1.436	2.296	15.3	19.3	11 27	6 46.70	+23 29.2	1.122	2.007	16.7	20.5
12 7	6 40.16	+11 59.5	1.369	2.290	11.3	19.1	12 7	6 40.94	+23 33.5	1.067	2.006	11.7	20.2
12 17	6 31.44	+11 50.7	1.324	2.284	7.2	18.8	12 17	6 31.98	+23 38.7	1.033	2.006	5.9	19.8
12 27	6 21.27	+11 55.4	1.306	2.278	4.9	18.7	12 27	6 21.28	+23 42.1	1.024	2.008	0.3	19.4
1 6	6 11.06	+12 13.2	1.314	2.273	7.3	18.8	1 6	6 10.70	+23 42.3	1.040	2.010	6.4	19.9
1 16	6 2.23	+12 42.4	1.348	2.268	11.5	19.0	1 16	6 2.08	+23 39.4	1.080	2.014	12.1	20.2
1 26	5 55.95	+13 20.4	1.405	2.263	15.6	19.3	1 26	5 56.76	+23 35.2	1.141	2.018	17.0	20.5
<b>260661</b>	2005 <i>HE</i> <sub>2</sub>		12 26.6	174°97	4°8/26.9	18	<b>230427</b>	2002 <i>PO</i> <sub>110</sub>		12 26.6	130°96	0°5/26.6	18
11 17	6 50.01	+ 8 31.1	2.596	3.324	13.1	22.3	11 17	6 49.59	+22 52.1	2.433	3.194	13.0	20.7
11 27	6 45.20	+ 7 53.2	2.504	3.327	10.8	22.2	11 27	6 45.14	+22 34.7	2.343	3.198	10.3	20.5
12 7	6 38.48	+ 7 23.2	2.434	3.329	8.3	22.0	12 7	6 38.56	+22 17.5	2.276	3.201	7.2	20.3
12 17	6 30.29	+ 7 3.0	2.391	3.331	5.9	21.9	12 17	6 30.37	+22 0.1	2.235	3.205	3.6	20.1
12 27	6 21.33	+ 6 53.8	2.377	3.332	4.8	21.8	12 27	6 21.36	+21 42.1	2.225	3.208	0.5	19.9
1 6	6 12.42	+ 6 56.2	2.394	3.333	5.9	21.9	1 6	6 12.46	+21 23.6	2.245	3.211	3.9	20.1
1 16	6 4.34	+ 7 9.3	2.440	3.333	8.3	22.0	1 16	6 4.56	+21 5.4	2.295	3.214	7.4	20.4
1 26	5 57.78	+ 7 31.6	2.512	3.332	10.8	22.2	1 26	5 58.40	+20 48.6	2.371	3.217	10.5	20.6
<b>417351</b>	2006 <i>EM</i> <sub>30</sub>		12 26.6	324°48	5°0/26.1	18	<b>462733</b>	2010 <i>AQ</i> <sub>60</sub>		12 26.6	39°27	0°6/26.4	18
11 17	6 52.77	+36 51.3	2.259	3.015	14.0	21.6	11 17	6 50.86	+20 9.3	1.889	2.662	15.8	20.9
11 27	6 48.39	+37 34.4	2.171	3.014	11.5	21.4	11 27	6 46.87	+21 16.0	1.816	2.677	12.5	20.7
12 7	6 41.22	+38 12.2	2.105	3.014	8.7	21.2	12 7	6 40.17	+22 30.8	1.764	2.693	8.6	20.5
12 17	6 31.85	+38 39.5	2.065	3.013	6.1	21.0	12 17	6 31.33	+23 49.6	1.739	2.709	4.3	20.2
12 27	6 21.26	+38 51.9	2.053	3.012	5.0	21.0	12 27	6 21.33	+25 7.3	1.743	2.726	0.7	20.0
1 6	6 10.73	+38 47.6	2.070	3.011	6.5	21.1	1 6	6 11.39	+26 19.0	1.777	2.743	4.7	20.3
1 16	6 1.47	+38 27.8	2.114	3.011	9.2	21.2	1 16	6 2.69	+27 21.9	1.840	2.761	8.8	20.6
1 26	5 54.49	+37 56.1	2.184	3.010	12.0	21.4	1 26	5 56.22	+28 14.9	1.929	2.779	12.3	20.9
<b>394087</b>	2006 <i>BU</i> <sub>28</sub>		12 26.6	324°31	0°9/26.6	16	<b>298443</b>	2003 <i>UV</i> <sub>36</sub>		12 26.6	52°39	1°6/26.5	18
11 17	6 49.16	+25 36.8	1.370	2.174	19.2	21.4	11 17	6 54.96	+23 11.6	1.530	2.313	18.5	19.7
11 27	6 46.95	+25 35.5	1.279	2.158	15.5	21.2	11 27	6 50.35	+22 16.3	1.464	2.330	14.7	19.5
12 7	6 41.09	+25 34.4	1.206	2.143	10.9	20.8	12 7	6 42.56	+21 19.8	1.418	2.348	10.2	19.3
12 17	6 32.10	+25 30.8	1.156	2.128	5.6	20.5	12 17	6 32.44	+20 22.7	1.396	2.366	5.3	19.0
12 27	6 21.24	+25 22.1	1.131	2.114	1.0	20.1	12 27	6 21.29	+19 26.8	1.403	2.385	1.6	18.8
1 6	6 10.25	+25 7.2	1.131	2.100	6.2	20.5	1 6	6 10.64	+18 34.7	1.437	2.403	5.6	19.1
1 16	6 0.91	+24 47.3	1.157	2.088	11.7	20.7	1 16	6 1.78	+17 49.1	1.499	2.422	10.2	19.5
1 26	5 54.66	+24 25.5	1.205	2.076	16.7	21.0	1 26	5 55.68	+17 12.2	1.585	2.441	14.2	19.7
<b>477862</b>	2011 <i>HD</i> <sub>10</sub>		12 26.6	322°10	6°8/27.3	18	<b>319961</b>	2007 <i>BX</i> <sub>74</sub>		12 26.6	95°54	4°5/27.5	18
11 17	6 47.05	+ 9 49.8	1.323	2.113	20.5	21.0	11 17	6 50.00	+ 8 34.3	2.305	3.042	14.3	20.7
11 27	6 45.02	+ 9 12.7	1.236	2.098	17.1	20.8	11 27	6 45.31	+ 8 21.4	2.234	3.064	11.7	20.6
12 7	6 39.61	+ 8 49.5	1.166	2.085	13.1	20.5	12 7	6 38.59	+ 8 19.0	2.185	3.086	8.8	20.4
12 17	6 31.32	+ 8 44.4	1.117	2.072	9.0	20.2	12 17	6 30.35	+ 8 28.1	2.161	3.107	6.0	20.3
12 27	6 21.28	+ 9 0.1	1.092	2.059	6.8	20.1	12 27	6 21.39	+ 8 48.7	2.166	3.128	4.5	20.2
1 6	6 11.04	+ 9 36.2	1.092	2.048	8.9	20.1	1 6	6 12.61	+ 9 19.8	2.201	3.149	5.7	20.4
1 16	6 2.23	+10 29.7	1.116	2.037	13.2	20.4	1 16	6 4.84	+ 9 59.3	2.265	3.169	8.3	20.6
1 26	5 56.24	+11 35.5	1.161	2.026	17.6	20.6	1 26	5 58.78	+10 44.6	2.356	3.189	11.0	20.8
<b>491501</b>	2012 <i>JH</i> <sub>6</sub>		12 26.6	128°45	1°4/26.4	17	<b>435464</b>	2008 <i>FZ</i> <sub>16</sub>		12 26			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>99388</b>	2002 <i>AL</i> <sub>m</sub>		12 26.6 248°13	5°5/27.4	18		<b>444838</b>	2007 <i>VM</i> <sub>87</sub>		12 26.6 350°39	4°7/26.1	17	
11 17	7 6.32	+37 44.5	1.255	2.033	22.0	19.5	11 17	6 47.48	+18 48.9	1.319	2.124	19.8	20.0
11 27	7 1.40	+37 26.9	1.168	2.026	18.2	19.2	11 27	6 45.26	+17 22.1	1.237	2.115	16.0	19.8
12 7	6 51.47	+36 53.5	1.099	2.019	13.6	18.9	12 7	6 39.64	+15 54.4	1.175	2.107	11.6	19.5
12 17	6 37.37	+35 56.2	1.052	2.011	8.6	18.6	12 17	6 31.25	+14 29.5	1.135	2.101	7.0	19.2
12 27	6 21.10	+34 29.4	1.030	2.003	5.5	18.4	12 27	6 21.39	+13 12.6	1.121	2.096	4.7	19.1
1 6	6 5.29	+32 36.0	1.035	1.995	8.3	18.6	1 6	6 11.65	+12 8.7	1.132	2.092	7.9	19.2
1 16	5 52.32	+30 26.7	1.065	1.987	13.6	18.8	1 16	6 3.57	+11 21.2	1.167	2.090	12.5	19.5
1 26	5 43.76	+28 15.5	1.119	1.979	18.6	19.1	1 26	5 58.35	+10 51.2	1.225	2.089	16.9	19.7
<b>73159</b>	2002 <i>GY</i> <sub>140</sub>		12 26.6 86°72	2°2/26.4	18		<b>473656</b>	2015 <i>XW</i> <sub>337</sub>		12 26.6 155°15	0°8/26.5	17	
11 17	6 54.30	+27 17.3	1.733	2.510	16.9	19.9	11 17	6 50.62	+23 53.3	2.204	2.970	14.0	21.5
11 27	6 49.94	+27 47.1	1.658	2.521	13.4	19.7	11 27	6 46.39	+24 22.1	2.114	2.971	11.2	21.3
12 7	6 42.45	+28 17.1	1.605	2.533	9.4	19.5	12 7	6 39.71	+24 53.8	2.046	2.973	7.8	21.1
12 17	6 32.51	+28 43.3	1.576	2.545	5.0	19.2	12 17	6 31.10	+25 25.6	2.005	2.975	3.9	20.8
12 27	6 21.31	+29 1.8	1.576	2.556	2.2	19.1	12 27	6 21.40	+25 54.7	1.994	2.976	0.9	20.6
1 6	6 10.30	+29 10.4	1.604	2.567	5.5	19.3	1 6	6 11.71	+26 19.1	2.012	2.978	4.3	20.9
1 16	6 0.86	+29 9.7	1.659	2.579	9.7	19.6	1 16	6 3.08	+26 37.9	2.060	2.979	8.1	21.1
1 26	5 54.06	+29 2.1	1.739	2.590	13.4	19.8	1 26	5 56.41	+26 51.7	2.133	2.980	11.4	21.3
<b>392837</b>	2012 <i>UE</i> <sub>10</sub>		12 26.6 322°76	2°2/26.4	18		<b>314877</b>	2006 <i>VC</i> <sub>20</sub>		12 26.6 35°78	3°2/26.6	17	
11 17	6 50.30	+26 8.9	1.415	2.215	18.9	21.0	11 17	6 49.87	+17 38.8	1.613	2.396	17.7	21.0
11 27	6 47.81	+26 38.8	1.326	2.203	15.2	20.8	11 27	6 46.27	+16 55.2	1.542	2.407	14.2	20.8
12 7	6 41.69	+27 11.8	1.257	2.191	10.8	20.5	12 7	6 39.79	+16 16.1	1.492	2.419	10.1	20.5
12 17	6 32.44	+27 43.4	1.210	2.181	5.7	20.2	12 17	6 31.13	+15 43.0	1.465	2.431	5.8	20.3
12 27	6 21.30	+28 8.8	1.189	2.170	2.2	19.9	12 27	6 21.41	+15 17.1	1.466	2.443	3.2	20.2
1 6	6 10.01	+28 24.4	1.194	2.160	6.4	20.1	1 6	6 11.95	+14 59.4	1.494	2.457	6.0	20.4
1 16	6 0.34	+28 29.7	1.224	2.151	11.6	20.4	1 16	6 3.98	+14 50.2	1.549	2.470	10.1	20.7
1 26	5 53.75	+28 26.9	1.277	2.143	16.3	20.7	1 26	5 58.43	+14 49.1	1.628	2.484	13.9	20.9
<b>75523</b>	1999 <i>XX</i> <sub>206</sub>		12 26.6 96°28	4°7/25.9	18 R		<b>87523</b>	2000 <i>QS</i> <sub>193</sub>		12 26.6 167°11	0°0/26.6	18	
11 17	6 57.49	+33 26.9	1.968	2.728	15.7	18.6	11 17	6 54.57	+22 24.4	2.129	2.887	14.7	21.0
11 27	6 52.28	+34 30.5	1.899	2.748	12.7	18.4	11 27	6 49.49	+22 34.4	2.039	2.893	11.7	20.8
12 7	6 43.98	+35 30.8	1.853	2.767	9.3	18.3	12 7	6 41.83	+22 47.1	1.972	2.897	8.1	20.6
12 17	6 33.26	+36 21.4	1.832	2.787	6.1	18.1	12 17	6 32.14	+23 0.4	1.931	2.901	4.1	20.3
12 27	6 21.29	+36 57.0	1.840	2.806	4.7	18.1	12 27	6 21.37	+23 12.5	1.921	2.904	0.2	20.0
1 6	6 9.52	+37 14.7	1.877	2.824	6.6	18.2	1 6	6 10.65	+23 21.8	1.940	2.906	4.4	20.3
1 16	5 59.31	+37 15.5	1.942	2.842	9.7	18.4	1 16	6 1.11	+23 28.3	1.989	2.908	8.4	20.6
1 26	5 51.73	+37 3.3	2.033	2.860	12.7	18.7	1 26	5 53.67	+23 32.6	2.065	2.909	11.9	20.8
<b>112803</b>	2002 <i>QG</i>		12 26.6 126°39	2°2/26.7	18		<b>460684</b>	2014 <i>UB</i> <sub>180</sub>		12 26.6 356°01	6°8/24.9	18	
11 17	6 56.45	+18 28.0	1.820	2.581	16.7	21.0	11 17	6 51.69	+36 29.1	1.867	2.638	16.0	20.3
11 27	6 51.11	+18 7.5	1.745	2.598	13.4	20.8	11 27	6 48.44	+38 3.7	1.784	2.635	13.2	20.1
12 7	6 42.95	+17 51.5	1.691	2.614	9.4	20.5	12 7	6 41.88	+39 35.9	1.724	2.633	10.2	19.9
12 17	6 32.65	+17 39.7	1.662	2.629	5.1	20.3	12 17	6 32.47	+40 57.8	1.688	2.631	7.7	19.8
12 27	6 21.32	+17 31.9	1.663	2.643	2.2	20.2	12 27	6 21.34	+42 1.4	1.680	2.630	6.9	19.7
1 6	6 10.25	+17 27.8	1.693	2.657	5.3	20.4	1 6	6 10.03	+42 41.9	1.698	2.630	8.6	19.8
1 16	6 0.65	+17 27.4	1.752	2.670	9.4	20.7	1 16	6 0.14	+42 58.6	1.743	2.630	11.4	20.0
1 26	5 53.44	+17 30.9	1.836	2.682	13.0	20.9	1 26	5 53.02	+42 55.4	1.810	2.631	14.3	20.2
<b>43075</b>	1999 <i>VJ</i> <sub>189</sub>		12 26.6 291°38	3°3/26.7	18		<b>449406</b>	2013 <i>HP</i> <sub>8</sub>		12 26.6 235°71	3°8/25.8	17	
11 17	6 48.12	+15 0.4	2.211	2.971	14.2	19.2	11 17	6 54.08	+31 4.9	2.203	2.963	14.2	21.2
11 27	6 44.19	+14 27.3	2.119	2.969	11.5	19.0	11 27	6 49.56	+32 4.8	2.103	2.954	11.5	21.0
12 7	6 38.05	+13 59.3	2.049	2.967	8.3	18.8	12 7	6 42.22	+33 5.1	2.026	2.944	8.4	20.8
12 17	6 30.20	+13 37.4	2.005	2.965	5.1	18.6	12 17	6 32.50	+34 0.5	1.975	2.934	5.2	20.5
12 27	6 21.42	+13 22.8	1.990	2.963	3.3	18.5	12 27	6 21.35	+34 45.7	1.954	2.924	3.8	20.4
1 6	6 12.69	+13 15.7	2.004	2.961	5.3	18.6	1 6	6 9.99	+35 17.1	1.962	2.913	6.0	20.6
1 16	6 4.94	+13 16.0	2.046	2.960	8.5	18.8	1 16	5 59.71	+35 33.9	1.999	2.902	9.3	20.7
1 26	5 58.97	+13 23.2	2.115	2.958	11.7	19.0	1 26	5 51.65	+35 38.2	2.061	2.891	12.5	20.9
<b>92138</b>	1999 <i>XK</i> <sub>113</sub>		12 26.6 74°65	5°3/26.6	17		<b>438677</b>	2008 <i>GF</i> <sub>89</sub>		12 26.6 300°98	2°7/26.8	18	
11 17	6 56.01	+38 43.1	2.129	2.881	14.9	19.5	11 17	6 50.58	+17 49.8	1.397	2.190	19.4	21.8
11 27	6 50.92	+39 11.3	2.056	2.895	12.2	19.3	11 27	6 47.80	+17 32.8	1.306	2.178	15.8	21.5
12 7	6 42.89	+39 31.2	2.004	2.908	9.3	19.1	12 7	6 41.55	+17 22.6	1.235	2.166	11.3	21.2
12 17	6 32.64	+39 37.5	1.977	2.922	6.6	19.0	12 17	6 32.35	+17 19.9	1.186	2.154	6.3	20.9
12 27	6 21.33	+39 26.7	1.978	2.935	5.3	19.0	12 27	6 21.37	+17 24.1	1.162	2.143	2.7	20.7
1 6	6 10.35	+38 58.1	2.008	2.949	6.7	19.1	1 6	6 10.24	+17 34.6	1.165	2.132	6.6	20.9
1 16	6 0.94	+38 14.5	2.065	2.963	9.4	19.3	1 16	6 0.62	+17 50.2	1.193	2.121	11.8	21.1
1 26	5 54.06	+37 20.8	2.149	2.976	12.1	19.5	1 26	5 53.91	+18 10.3	1.244	2.110	16.6	21.4
<b>352839</b>	2008 <i>VK</i> <sub>68</sub>		12 26.6 48°87	1°8/26.8	18		<b>262118</b>	2006 <i>SF</i> <sub>15</sub>		12 26.6 94°06	2°3/26.5	18	
11 17	6 54.57	+17 51.8	1.322	2.112	20.5	19.6	11 17	6 57.51	+28 4.9	1.475	2.259	19.0	21.0
11 27	6 50.33	+18 1.5	1.275	2.145	16.2	19.5	11 27	6 52.99	+28 22.0	1.405	2.272	15.2	20.8
12 7	6 42.69	+18 20.0	1.247	2.178	11.2	19.3	12 7	6 44.82	+28 37.8	1.355	2.285	10.7	20.5
12 17	6 32.54	+18 45.5	1.242	2.211	5.9	19.1	12 17	6 33.79	+28 48.0	1.329	2.297	5.7	20.3
12 27	6 21.34	+19 15.0	1.263	2.245	1.8	18.9	12 27	6 21.32	+28 48.4	1.329	2.310	2.3	20.1
1 6	6 10.72	+19 45.9	1.311	2.279	5.8	19.2	1 6	6 9.20	+28 37.9	1.357	2.322	6.1	20.4
1 16	6 2.09	+20 16.2	1.386	2.313	10.5	19.6	1 16	5 59.04	+28 18.4	1.412	2.334	10.8	20.7
1 26	5 56.41	+20 45.1	1.483	2.347	14.6	19.9	1 26	5 52.01	+27 53.7	1.491	2.346	15.0	21.0
<b>354648</b>	2005 <i>JT</i> <sub>30</sub>		12 26.6 270°19	3°7/26.8	17		<b>216232</b>	2006 <i>UB</i> <sub>226</sub>		12 26.6 105°			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>44380</b>	1998 <i>SS</i> <sub>56</sub>		12 26.6 150°10	2°0/26.8	18		<b>418814</b>	2008 <i>VC</i> <sub>41</sub>		12 26.6 145°42	2°2/26.7	17	
11 17	6 52.04	+16 59.0	2.289	3.041	14.0	20.6	11 17	6 49.00	+16 55.3	2.949	3.692	11.3	21.4
11 27	6 47.16	+16 53.0	2.203	3.050	11.2	20.4	11 27	6 44.17	+16 22.6	2.859	3.701	9.1	21.2
12 7	6 40.03	+16 52.1	2.139	3.058	7.9	20.2	12 7	6 37.66	+15 52.6	2.794	3.710	6.5	21.1
12 17	6 31.18	+16 56.1	2.102	3.066	4.4	20.0	12 17	6 29.89	+15 25.8	2.756	3.718	3.8	20.9
12 27	6 21.44	+17 4.3	2.094	3.074	2.0	19.9	12 27	6 21.52	+15 2.9	2.750	3.726	2.2	20.8
1 6	6 11.79	+17 16.0	2.117	3.080	4.5	20.1	1 6	6 13.25	+14 44.3	2.775	3.733	3.9	20.9
1 16	6 3.17	+17 30.4	2.170	3.086	7.9	20.3	1 16	6 5.78	+14 30.5	2.830	3.740	6.6	21.1
1 26	5 56.38	+17 47.0	2.250	3.092	11.1	20.5	1 26	5 59.69	+14 21.4	2.913	3.747	9.1	21.3
<b>347176</b>	2011 <i>FT</i> <sub>147</sub>		12 26.6 186°34	3°5/26.2	18		<b>130354</b>	2000 <i>GF</i> <sub>25</sub>		12 26.6 351°15	0°5/26.7	18	
11 17	6 56.72	+29 54.6	1.814	2.583	16.5	21.2	11 17	6 47.92	+21 50.2	2.128	2.900	14.3	20.0
11 27	6 52.07	+30 41.5	1.726	2.583	13.3	21.0	11 27	6 44.29	+21 49.2	2.037	2.898	11.4	19.8
12 7	6 44.15	+31 28.4	1.660	2.583	9.5	20.8	12 7	6 38.28	+21 50.6	1.968	2.897	7.9	19.5
12 17	6 33.52	+32 9.6	1.618	2.582	5.6	20.6	12 17	6 30.39	+21 53.4	1.925	2.895	4.0	19.3
12 27	6 21.34	+32 39.7	1.605	2.581	3.5	20.4	12 27	6 21.50	+21 56.5	1.911	2.894	0.5	19.0
1 6	6 9.12	+32 55.4	1.621	2.579	6.2	20.6	1 6	6 12.64	+21 59.1	1.926	2.893	4.3	19.3
1 16	5 58.39	+32 56.9	1.665	2.577	10.2	20.8	1 16	6 4.83	+22 1.0	1.969	2.892	8.2	19.5
1 26	5 50.37	+32 47.3	1.733	2.574	13.9	21.0	1 26	5 58.95	+22 2.7	2.039	2.892	11.6	19.8
<b>102890</b>	1999 <i>XV</i> <sub>5</sub>		12 26.6 25°75	2°3/26.3	18		<b>484357</b>	2007 <i>VS</i> <sub>73</sub>		12 26.6 320°37	6°0/25.8	17	
11 17	6 52.34	+26 23.5	1.711	2.492	16.9	19.7	11 17	6 48.68	+15 33.6	1.512	2.299	18.5	20.7
11 27	6 48.63	+27 8.4	1.628	2.494	13.5	19.5	11 27	6 46.00	+14 0.6	1.410	2.274	15.3	20.4
12 7	6 41.77	+27 56.1	1.566	2.495	9.5	19.3	12 7	6 40.15	+12 26.7	1.327	2.250	11.5	20.1
12 17	6 32.31	+28 42.0	1.529	2.497	5.1	19.0	12 17	6 31.61	+10 56.4	1.269	2.227	7.7	19.8
12 27	6 21.39	+29 21.0	1.519	2.499	2.4	18.9	12 27	6 21.44	+9 35.4	1.236	2.204	6.1	19.7
1 6	6 10.46	+29 49.9	1.538	2.501	5.7	19.1	1 6	6 11.08	+8 29.0	1.230	2.181	8.7	19.7
1 16	6 0.97	+30 7.6	1.583	2.503	10.1	19.3	1 16	6 2.02	+7 41.3	1.249	2.160	13.0	19.9
1 26	5 54.11	+30 15.9	1.654	2.505	13.9	19.6	1 26	5 55.54	+7 13.4	1.290	2.140	17.2	20.1
<b>351082</b>	2003 <i>UC</i> <sub>83</sub>		12 26.6 34°26	2°4/26.9	17		<b>239173</b>	2006 <i>KF</i> <sub>51</sub>		12 26.6 171°17	1°5/26.3	18	
11 17	6 49.71	+16 53.8	1.314	2.113	20.2	20.1	11 17	6 49.49	+26 6.8	2.552	3.313	12.5	20.4
11 27	6 46.77	+16 56.9	1.256	2.130	16.1	19.9	11 27	6 45.21	+26 41.3	2.459	3.314	9.9	20.2
12 7	6 40.47	+17 10.0	1.216	2.149	11.3	19.7	12 7	6 38.76	+27 17.1	2.390	3.315	6.9	20.0
12 17	6 31.57	+17 32.3	1.199	2.168	6.1	19.5	12 17	6 30.60	+27 51.4	2.347	3.315	3.7	19.8
12 27	6 21.42	+18 1.6	1.207	2.188	2.4	19.3	12 27	6 21.49	+28 21.5	2.335	3.316	1.5	19.6
1 6	6 11.62	+18 35.1	1.242	2.209	6.0	19.6	1 6	6 12.36	+28 45.5	2.353	3.316	4.1	19.8
1 16	6 3.61	+19 10.4	1.301	2.231	10.8	19.9	1 16	6 4.13	+29 2.6	2.401	3.316	7.3	20.0
1 26	5 58.46	+19 45.6	1.384	2.253	15.1	20.2	1 26	5 57.61	+29 13.6	2.476	3.317	10.3	20.2
<b>289267</b>	2004 <i>XY</i> <sub>124</sub>		12 26.6 36°61	0°3/26.6	17		<b>121740</b>	1999 <i>XU</i> <sub>196</sub>		12 26.6 29°25	2°9/26.4	17	
11 17	6 49.19	+21 39.5	2.140	2.910	14.3	20.2	11 17	6 50.34	+29 30.5	1.830	2.611	16.0	19.3
11 27	6 45.31	+22 13.2	2.053	2.913	11.4	20.0	11 27	6 46.75	+30 1.9	1.755	2.619	12.8	19.1
12 7	6 39.00	+22 51.6	1.988	2.916	7.9	19.8	12 7	6 40.24	+30 31.9	1.701	2.628	9.0	18.9
12 17	6 30.76	+23 32.5	1.950	2.920	4.0	19.5	12 17	6 31.45	+30 56.4	1.672	2.638	5.1	18.6
12 27	6 21.46	+24 12.8	1.940	2.923	0.3	19.2	12 27	6 21.47	+31 11.6	1.670	2.648	2.9	18.5
1 6	6 12.15	+24 50.0	1.960	2.927	4.3	19.6	1 6	6 11.65	+31 15.7	1.697	2.658	5.6	18.7
1 16	6 3.89	+25 22.5	2.010	2.931	8.1	19.8	1 16	6 3.26	+31 9.5	1.751	2.669	9.4	19.0
1 26	5 57.57	+25 50.1	2.085	2.935	11.5	20.0	1 26	5 57.32	+30 55.4	1.829	2.681	12.8	19.2
<b>491340</b>	2011 <i>YB</i> <sub>21</sub>		12 26.6 264°59	3°6/27.5	17		<b>298629</b>	2004 <i>BV</i> <sub>19</sub>		12 26.6 11°75	3°5/26.5	18	
11 17	6 49.42	+10 51.0	2.096	2.847	15.1	21.6	11 17	6 49.13	+30 2.3	1.291	2.100	19.9	19.9
11 27	6 45.52	+11 4.3	1.995	2.838	12.4	21.4	11 27	6 47.00	+30 23.1	1.223	2.103	16.0	19.6
12 7	6 39.20	+11 29.7	1.916	2.829	9.2	21.2	12 7	6 41.06	+30 40.8	1.174	2.108	11.4	19.4
12 17	6 30.91	+12 7.5	1.863	2.820	5.7	21.0	12 17	6 32.05	+30 50.6	1.146	2.114	6.4	19.1
12 27	6 21.45	+12 56.7	1.838	2.811	3.6	20.8	12 27	6 21.45	+30 48.0	1.143	2.122	3.5	19.0
1 6	6 11.86	+13 55.0	1.843	2.802	5.5	20.9	1 6	6 11.12	+30 31.9	1.165	2.131	6.8	19.2
1 16	6 3.19	+14 59.1	1.876	2.792	9.0	21.1	1 16	6 2.80	+30 4.4	1.212	2.141	11.6	19.5
1 26	5 56.38	+16 6.0	1.936	2.783	12.4	21.3	1 26	5 57.72	+29 30.3	1.282	2.152	15.9	19.8
<b>400084</b>	2006 <i>SJ</i> <sub>343</sub>		12 26.6 92°98	3°6/26.8	18		<b>206472</b>	2003 <i>UX</i> <sub>11</sub>		12 26.6 241°10	3°9/26.4	18	
11 17	6 51.00	+14 54.2	1.971	2.732	15.6	21.5	11 17	6 55.19	+32 52.4	1.954	2.719	15.6	20.6
11 27	6 46.60	+14 18.3	1.894	2.745	12.6	21.3	11 27	6 50.73	+33 20.1	1.858	2.712	12.7	20.4
12 7	6 39.75	+13 48.5	1.839	2.757	9.1	21.1	12 7	6 43.14	+33 44.0	1.784	2.703	9.3	20.1
12 17	6 31.06	+13 26.0	1.810	2.769	5.6	20.9	12 17	6 33.00	+33 59.4	1.735	2.695	5.7	19.9
12 27	6 21.46	+13 11.7	1.808	2.782	3.6	20.8	12 27	6 21.42	+34 1.8	1.714	2.686	3.9	19.8
1 6	6 12.05	+13 5.9	1.836	2.794	5.6	21.0	1 6	6 9.81	+33 49.3	1.721	2.677	6.2	19.9
1 16	6 3.86	+13 8.2	1.892	2.806	9.1	21.2	1 16	5 59.61	+33 23.4	1.757	2.668	9.8	20.1
1 26	5 57.71	+13 17.9	1.973	2.817	12.3	21.5	1 26	5 51.97	+32 48.0	1.818	2.659	13.4	20.3
<b>217677</b>	1999 <i>BW</i> <sub>30</sub>		12 26.6 88°82	2°0/26.6	18		<b>287200</b>	2002 <i>SF</i> <sub>24</sub>		12 26.6 44°42	0°2/26.6	17	
11 17	6 56.12	+27 58.4	1.602	2.382	17.9	20.5	11 17	6 51.99	+22 32.0	1.486	2.277	18.6	20.8
11 27	6 51.57	+28 7.4	1.530	2.394	14.3	20.3	11 27	6 48.26	+22 33.2	1.425	2.297	14.7	20.6
12 7	6 43.67	+28 14.8	1.478	2.406	10.0	20.1	12 7	6 41.33	+22 37.6	1.385	2.317	10.1	20.4
12 17	6 33.17	+28 16.9	1.450	2.419	5.3	19.9	12 17	6 31.97	+22 43.2	1.367	2.339	5.1	20.1
12 27	6 21.38	+28 10.5	1.449	2.431	2.0	19.7	12 27	6 21.48	+22 48.0	1.377	2.360	0.3	19.8
1 6	6 9.90	+27 55.1	1.477	2.443	5.6	19.9	1 6	6 11.38	+22 50.8	1.414	2.382	5.3	20.3
1 16	6 0.19	+27 32.3	1.532	2.455	10.1	20.2	1 16	6 3.02	+22 51.8	1.477	2.405	10.0	20.6
1 26	5 53.36	+27 5.7	1.612	2.466	14.1	20.5	1 26	5 57.39	+22 52.0	1.565	2.427	14.0	20.9
<b>267035</b>	1997 <i>EB</i> <sub>10</sub>		12 26.6 292°05	1°1/26.6	18		<b>460780</b>	2014 <i>WP</i> <sub>18</sub>		12 26.6 56°28			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>74716</b>	1999 RO <sub>164</sub>	12 26.6 192°44'		3°6'/26.5 18			<b>105372</b>	2000 QF <sub>127</sub>	12 26.6 68°02'		3°9'/26.5 18		
11 17	6 58.67	+31 41.4	1.731	2.500	17.2	19.5	11 17	6 58.85	+30 5.9	1.273	2.066	21.0	19.3
11 27	6 53.77	+32 4.7	1.643	2.499	13.9	19.3	11 27	6 54.62	+30 42.5	1.215	2.085	16.8	19.1
12 7	6 45.40	+32 24.4	1.575	2.497	10.1	19.0	12 7	6 46.24	+31 16.9	1.176	2.105	11.9	18.9
12 17	6 34.19	+32 35.3	1.532	2.495	6.0	18.8	12 17	6 34.61	+31 42.2	1.159	2.125	6.8	18.7
12 27	6 21.42	+32 32.7	1.517	2.493	3.6	18.6	12 27	6 21.44	+31 52.4	1.167	2.145	3.9	18.6
1 6	6 8.72	+32 15.0	1.530	2.490	6.4	18.8	1 6	6 8.80	+31 45.8	1.202	2.165	7.2	18.8
1 16	5 57.72	+31 44.2	1.571	2.486	10.5	19.0	1 16	5 58.53	+31 25.1	1.263	2.184	11.9	19.1
1 26	5 49.64	+31 5.2	1.637	2.482	14.4	19.3	1 26	5 51.88	+30 55.9	1.346	2.204	16.1	19.4
<b>371853</b>	2008 AD <sub>20</sub>	12 26.6		4°28' 5°0'/27.5 18			<b>408492</b>	2013 JG <sub>11</sub>	12 26.6 208°41'		0°7'/26.7 18		
11 17	6 46.55	+12 2.6	1.056	1.870	23.0	20.4	11 17	6 50.59	+20 29.3	2.498	3.252	12.9	22.4
11 27	6 45.30	+11 59.2	0.988	1.869	18.9	20.1	11 27	6 46.04	+20 34.3	2.396	3.247	10.3	22.2
12 7	6 40.17	+12 14.1	0.937	1.869	13.9	19.8	12 7	6 39.34	+20 42.6	2.318	3.241	7.2	22.0
12 17	6 31.77	+12 49.4	0.905	1.870	8.5	19.5	12 17	6 30.94	+20 52.9	2.267	3.235	3.7	21.8
12 27	6 21.51	+13 43.9	0.896	1.872	5.0	19.3	12 27	6 21.58	+21 4.2	2.246	3.229	0.7	21.5
1 6	6 11.27	+14 53.0	0.910	1.876	8.0	19.5	1 6	6 12.18	+21 15.4	2.256	3.221	3.9	21.8
1 16	6 2.94	+16 10.2	0.947	1.881	13.3	19.8	1 16	6 3.66	+21 26.0	2.295	3.214	7.4	22.0
1 26	5 57.97	+17 29.4	1.005	1.887	18.2	20.1	1 26	5 56.81	+21 36.1	2.362	3.206	10.6	22.2
<b>268153</b>	2004 TW <sub>323</sub>	12 26.6 351°86'		1°3'/26.7 17			<b>196481</b>	VATT	12 26.6 312°73'		0°8'/26.6 18		
11 17	6 47.14	+20 0.7	1.811	2.594	16.0	20.6	11 17	6 50.31	+23 33.3	1.476	2.271	18.5	21.1
11 27	6 44.13	+19 54.7	1.723	2.590	12.8	20.4	11 27	6 47.65	+23 52.4	1.383	2.257	14.9	20.8
12 7	6 38.43	+19 53.0	1.656	2.586	9.0	20.2	12 7	6 41.52	+24 16.0	1.309	2.244	10.5	20.5
12 17	6 30.59	+19 54.9	1.614	2.583	4.7	19.9	12 17	6 32.43	+24 41.2	1.259	2.231	5.4	20.2
12 27	6 21.56	+19 59.6	1.599	2.581	1.3	19.7	12 27	6 21.52	+25 4.4	1.235	2.218	0.8	19.8
1 6	6 12.56	+20 6.1	1.612	2.579	4.9	19.9	1 6	6 10.41	+25 22.6	1.238	2.206	5.9	20.1
1 16	6 4.75	+20 14.1	1.652	2.578	9.2	20.2	1 16	6 0.79	+25 34.8	1.266	2.194	11.2	20.4
1 26	5 59.14	+20 23.3	1.717	2.578	13.1	20.4	1 26	5 54.05	+25 42.1	1.317	2.183	15.9	20.7
<b>170549</b>	2003 WU <sub>129</sub>	12 26.6 160°16'		4°4'/25.7 18			<b>442928</b>	2013 CL <sub>52</sub>	12 26.6 8°59'		2°1'/26.9 18		
11 17	6 56.20	+31 55.9	2.065	2.825	15.1	20.2	11 17	6 47.53	+17 13.4	1.384	2.183	19.3	20.5
11 27	6 51.38	+33 6.7	1.979	2.829	12.2	20.0	11 27	6 45.21	+17 22.5	1.309	2.184	15.5	20.2
12 7	6 43.55	+34 17.1	1.916	2.832	8.9	19.8	12 7	6 39.61	+17 41.6	1.253	2.186	11.0	20.0
12 17	6 33.23	+35 20.9	1.879	2.835	5.8	19.6	12 17	6 31.33	+18 9.9	1.219	2.189	5.9	19.7
12 27	6 21.46	+36 12.0	1.871	2.838	4.4	19.5	12 27	6 21.58	+18 45.4	1.211	2.193	2.1	19.5
1 6	6 9.61	+36 46.6	1.893	2.841	6.5	19.6	1 6	6 11.89	+19 24.8	1.230	2.198	5.9	19.7
1 16	5 59.05	+37 4.2	1.943	2.843	9.7	19.8	1 16	6 3.76	+20 5.5	1.274	2.204	10.9	20.0
1 26	5 50.95	+37 7.5	2.018	2.845	12.8	20.1	1 26	5 58.39	+20 45.5	1.340	2.211	15.3	20.3
<b>218136</b>	2002 QA <sub>133</sub>	12 26.6 77°37'		3°4'/27.2 18			<b>298082</b>	2002 QL <sub>135</sub>	12 26.6 73°06'		1°1'/26.5 18		
11 17	6 54.49	+14 12.3	1.436	2.213	19.7	20.9	11 17	6 52.26	+24 0.0	1.795	2.572	16.4	20.6
11 27	6 50.26	+14 12.9	1.372	2.232	15.9	20.7	11 27	6 48.27	+24 32.2	1.715	2.579	13.0	20.4
12 7	6 42.77	+14 25.4	1.328	2.252	11.4	20.5	12 7	6 41.35	+25 7.9	1.656	2.586	9.1	20.2
12 17	6 32.75	+14 49.4	1.307	2.271	6.5	20.3	12 17	6 32.09	+25 43.8	1.622	2.593	4.6	19.9
12 27	6 21.49	+15 23.2	1.312	2.290	3.4	20.1	12 27	6 21.56	+26 16.1	1.617	2.600	1.1	19.7
1 6	6 10.53	+16 4.0	1.345	2.309	6.3	20.3	1 6	6 11.11	+26 42.1	1.640	2.607	5.1	20.0
1 16	6 1.30	+16 48.6	1.404	2.328	10.8	20.6	1 16	6 2.02	+27 0.9	1.692	2.614	9.3	20.2
1 26	5 54.86	+17 34.7	1.488	2.346	14.8	20.9	1 26	5 55.36	+27 13.5	1.768	2.621	13.1	20.5
<b>401542</b>	2013 ER <sub>110</sub>	12 26.6 267°34'		2°6'/26.7 17			<b>394840</b>	2008 SV <sub>224</sub>	12 26.6 257°03'		4°6'/26.2 18		
11 17	6 50.71	+17 55.7	1.959	2.726	15.5	21.9	11 17	6 55.32	+32 39.5	1.713	2.487	17.1	21.7
11 27	6 46.78	+17 26.3	1.857	2.713	12.5	21.7	11 27	6 51.36	+33 24.7	1.624	2.482	13.9	21.4
12 7	6 40.21	+17 0.4	1.776	2.700	9.0	21.4	12 7	6 43.91	+34 7.5	1.556	2.477	10.2	21.2
12 17	6 31.49	+16 38.5	1.720	2.686	5.1	21.1	12 17	6 33.55	+34 41.7	1.512	2.472	6.5	21.0
12 27	6 21.53	+16 21.3	1.693	2.672	2.6	21.0	12 27	6 21.50	+35 1.4	1.495	2.466	4.6	20.8
1 6	6 11.49	+16 9.1	1.695	2.658	5.4	21.1	1 6	6 9.41	+35 3.4	1.506	2.461	7.0	21.0
1 16	6 2.53	+16 2.5	1.725	2.644	9.4	21.3	1 16	5 58.91	+34 48.8	1.544	2.455	10.9	21.2
1 26	5 55.67	+16 1.5	1.780	2.630	13.2	21.5	1 26	5 51.33	+34 21.8	1.605	2.449	14.7	21.4
<b>202766</b>	2007 RE <sub>197</sub>	12 26.6 100°04'		2°1'/26.5 17			<b>490178</b>	2008 UO <sub>272</sub>	12 26.6 176°61'		0°1'/26.6 18		
11 17	6 50.82	+29 51.8	2.571	3.328	12.5	20.9	11 17	6 49.80	+23 58.5	2.496	3.256	12.7	21.7
11 27	6 46.14	+30 7.7	2.490	3.341	9.9	20.7	11 27	6 45.35	+23 42.9	2.402	3.257	10.1	21.5
12 7	6 39.30	+30 21.3	2.432	3.353	7.0	20.6	12 7	6 38.79	+23 27.0	2.332	3.257	7.0	21.3
12 17	6 30.83	+30 30.0	2.401	3.366	3.9	20.4	12 17	6 30.63	+23 10.0	2.288	3.257	3.5	21.1
12 27	6 21.57	+30 31.8	2.400	3.378	2.1	20.3	12 27	6 21.63	+22 51.2	2.274	3.258	0.2	20.8
1 6	6 12.44	+30 25.8	2.429	3.390	4.2	20.5	1 6	6 12.72	+22 31.1	2.291	3.258	3.8	21.1
1 16	6 4.36	+30 12.8	2.488	3.401	7.2	20.7	1 16	6 4.77	+22 10.2	2.338	3.258	7.3	21.3
1 26	5 58.07	+29 54.8	2.574	3.413	10.0	20.9	1 26	5 58.53	+21 50.0	2.412	3.257	10.3	21.5
<b>492457</b>	2014 MS <sub>62</sub>	12 26.6 94°10'		4°2'/27.7 17			<b>38494</b>	1999 TG <sub>119</sub>	12 26.6 345°88'		4°3'/27.0 18		
11 17	6 50.07	+ 8 59.1	2.159	2.901	15.0	21.9	11 17	6 47.66	+11 44.4	2.088	2.845	15.0	18.5
11 27	6 45.68	+ 9 4.4	2.081	2.916	12.3	21.8	11 27	6 44.01	+11 14.8	1.999	2.844	12.3	18.3
12 7	6 39.07	+ 9 21.6	2.024	2.930	9.1	21.6	12 7	6 38.07	+10 53.3	1.931	2.843	9.1	18.1
12 17	6 30.76	+ 9 51.3	1.993	2.944	6.0	21.4	12 17	6 30.35	+10 41.7	1.889	2.842	6.0	17.9
12 27	6 21.57	+10 32.6	1.991	2.958	4.2	21.3	12 27	6 21.65	+10 40.9	1.874	2.842	4.3	17.8
1 6	6 12.49	+11 23.5	2.018	2.972	5.6	21.4	1 6	6 12.98	+10 50.8	1.888	2.841	6.0	17.9
1 16	6 4.44	+12 21.2	2.075	2.985	8.6	21.6	1 16	6 5.30	+11 10.4	1.929	2.840	9.1	18.1
1 26	5 58.21	+13 22.4	2.158	2.999	11.5	21.9	1 26	5 59.46	+11 38.0	1.996	2.840	12.2	18.3
<b>174339</b>	2002 TE <sub>191</sub>	12 26.6 63°52'		3°4'/26.8 18			<b>484424</b>	2007 YV <sub>74</sub>	12 26.6 351°76'		3°5'/26.8 17		
11 17	6 57.39	+32 49.3	1.711	2.482	17.3	19.7	11 17	6 53.43	+33 4.3	1.627			



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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>367247</b>	2007 <i>MJ</i> <sub>5</sub>		12 26.6 132°91	4.5/27.3	17		<b>211290</b>	2002 <i>RQ</i> <sub>162</sub>		12 26.7 281°30	2.4/26.9	18	
11 17	6 47.49	+ 8 11.7	2.656	3.388	12.7	22.2	11 17	6 50.09	+17 4.3	1.847	2.619	16.2	20.4
11 27	6 43.23	+ 7 44.8	2.572	3.397	10.5	22.1	11 27	6 46.39	+16 52.7	1.756	2.615	13.0	20.2
12 7	6 37.17	+ 7 26.6	2.509	3.405	8.0	21.9	12 7	6 40.00	+16 47.2	1.686	2.611	9.3	19.9
12 17	6 29.77	+ 7 18.4	2.473	3.414	5.7	21.8	12 17	6 31.42	+16 48.0	1.640	2.606	5.2	19.7
12 27	6 21.68	+ 7 21.2	2.466	3.422	4.5	21.7	12 27	6 21.63	+16 54.8	1.623	2.602	2.4	19.5
1 6	6 13.66	+ 7 34.7	2.489	3.430	5.6	21.8	1 6	6 11.83	+17 6.5	1.634	2.598	5.3	19.7
1 16	6 6.44	+ 7 57.9	2.540	3.438	7.8	22.0	1 16	6 3.20	+17 22.5	1.673	2.594	9.5	19.9
1 26	6 0.66	+ 8 28.9	2.619	3.445	10.2	22.1	1 26	5 56.75	+17 41.8	1.736	2.590	13.3	20.1
<b>52218</b>	5050 <i>T</i> <sub>-3</sub>		12 26.6 20°96	7.6/28.2	18		<b>99015</b>	2001 <i>DM</i> <sub>65</sub>		12 26.7 164°10	2.7/26.5	18	
11 17	6 45.67	+ 7 44.1	0.996	1.808	24.3	17.5	11 17	6 52.43	+31 53.9	2.576	3.329	12.6	19.8
11 27	6 44.44	+ 7 23.4	0.944	1.819	20.1	17.3	11 27	6 47.55	+32 9.7	2.485	3.332	10.1	19.6
12 7	6 39.38	+ 7 25.8	0.907	1.831	15.3	17.0	12 7	6 40.38	+32 22.0	2.418	3.335	7.2	19.5
12 17	6 31.27	+ 7 55.1	0.889	1.845	10.4	16.8	12 17	6 31.46	+32 27.8	2.377	3.338	4.3	19.3
12 27	6 21.62	+ 8 51.1	0.893	1.861	7.6	16.7	12 27	6 21.64	+32 24.8	2.366	3.340	2.7	19.2
1 6	6 12.29	+10 8.6	0.920	1.879	9.4	16.9	1 6	6 11.91	+32 12.3	2.385	3.342	4.6	19.3
1 16	6 4.98	+11 39.7	0.969	1.898	13.6	17.2	1 16	6 3.24	+31 51.2	2.434	3.344	7.5	19.5
1 26	6 0.94	+13 15.8	1.038	1.918	18.0	17.5	1 26	5 56.42	+31 23.9	2.510	3.346	10.3	19.7
<b>75008</b>	1999 <i>TE</i> <sub>328</sub>		12 26.6 76°73	1.1/26.7	18		<b>350309</b>	2012 <i>UZ</i> <sub>46</sub>		12 26.7 24°35	0.5/26.7	18	
11 17	6 57.46	+26 56.2	1.420	2.206	19.5	19.6	11 17	6 49.70	+21 1.6	1.268	2.074	20.3	21.1
11 27	6 52.93	+26 47.1	1.353	2.221	15.5	19.3	11 27	6 47.22	+21 12.3	1.202	2.082	16.2	20.9
12 7	6 44.77	+26 36.1	1.306	2.237	10.8	19.1	12 7	6 41.12	+21 29.5	1.154	2.091	11.3	20.6
12 17	6 33.81	+26 20.2	1.282	2.252	5.5	18.8	12 17	6 32.12	+21 51.0	1.129	2.101	5.7	20.3
12 27	6 21.53	+25 57.5	1.284	2.267	1.2	18.6	12 27	6 21.61	+22 13.8	1.128	2.112	0.6	20.0
1 6	6 9.71	+25 28.2	1.315	2.282	5.8	18.9	1 6	6 11.34	+22 35.2	1.154	2.123	6.0	20.4
1 16	5 59.91	+24 55.3	1.372	2.297	10.8	19.3	1 16	6 2.92	+22 54.0	1.204	2.136	11.3	20.7
1 26	5 53.25	+24 22.3	1.452	2.312	15.0	19.6	1 26	5 57.57	+23 10.4	1.277	2.149	15.8	21.1
<b>161214</b>	2002 <i>UU</i> <sub>47</sub>		12 26.6 105°89	0.5/26.7	18		<b>9101</b>	1996 <i>XG</i> <sub>2</sub>		12 26.7 298°63	0.2/26.7	18	
11 17	6 49.08	+20 59.3	2.673	3.428	12.1	20.5	11 17	6 52.58	+21 56.8	1.441	2.232	19.0	19.0
11 27	6 44.53	+21 4.0	2.592	3.443	9.6	20.4	11 27	6 49.38	+22 6.5	1.355	2.227	15.3	18.7
12 7	6 38.09	+21 11.3	2.535	3.459	6.6	20.2	12 7	6 42.65	+22 21.2	1.288	2.221	10.7	18.5
12 17	6 30.23	+21 19.9	2.505	3.474	3.4	20.0	12 17	6 32.98	+22 38.9	1.245	2.216	5.5	18.1
12 27	6 21.67	+21 28.9	2.506	3.489	0.5	19.8	12 27	6 21.59	+22 56.5	1.228	2.211	0.3	17.7
1 6	6 13.22	+21 37.6	2.537	3.503	3.5	20.1	1 6	6 10.13	+23 11.6	1.237	2.206	5.9	18.1
1 16	6 5.68	+21 45.5	2.599	3.518	6.7	20.3	1 16	6 0.28	+23 23.5	1.273	2.201	11.2	18.4
1 26	5 59.68	+21 52.8	2.688	3.532	9.4	20.5	1 26	5 53.39	+23 33.0	1.332	2.197	15.8	18.7
<b>336820</b>	2011 <i>EZ</i> <sub>25</sub>		12 26.6 145°25	2.3/26.9	18		<b>257142</b>	2008 <i>HA</i> <sub>6</sub>		12 26.7 114°82	1.9/26.4	17	
11 17	6 54.14	+16 29.0	1.805	2.569	16.8	21.4	11 17	6 51.61	+27 14.8	2.053	2.823	14.8	21.1
11 27	6 49.54	+16 30.7	1.723	2.577	13.5	21.2	11 27	6 47.49	+27 42.4	1.965	2.824	11.8	20.9
12 7	6 42.11	+16 40.1	1.661	2.584	9.6	21.0	12 7	6 40.69	+28 10.5	1.899	2.825	8.3	20.7
12 17	6 32.45	+16 56.8	1.625	2.591	5.3	20.8	12 17	6 31.75	+28 35.6	1.858	2.826	4.5	20.5
12 27	6 21.58	+17 19.2	1.617	2.597	2.3	20.6	12 27	6 21.64	+28 54.5	1.847	2.827	1.9	20.3
1 6	6 10.80	+17 45.7	1.639	2.603	5.3	20.8	1 6	6 11.55	+29 5.3	1.865	2.828	4.9	20.5
1 16	6 1.34	+18 14.4	1.688	2.609	9.5	21.0	1 16	6 2.66	+29 7.9	1.911	2.830	8.7	20.8
1 26	5 54.21	+18 44.4	1.763	2.613	13.3	21.3	1 26	5 55.96	+29 4.1	1.983	2.831	12.1	21.0
<b>60504</b>	2000 <i>DL</i> <sub>102</sub>		12 26.7 112°29	2.8/26.3	18		<b>468008</b>	2013 <i>AO</i> <sub>6</sub>		12 26.7 313°55	9.3/28.3	18	
11 17	6 54.35	+29 24.6	2.012	2.778	15.2	18.9	11 17	7 7.31	+44 1.1	1.085	1.868	24.5	20.3
11 27	6 49.68	+30 1.4	1.933	2.788	12.2	18.7	11 27	7 3.52	+44 0.2	1.006	1.860	20.8	20.0
12 7	6 42.18	+30 37.1	1.876	2.799	8.6	18.5	12 7	6 53.72	+43 37.1	0.942	1.852	16.5	19.7
12 17	6 32.47	+31 7.5	1.844	2.809	4.9	18.3	12 17	6 38.84	+42 38.6	0.897	1.844	12.0	19.4
12 27	6 21.58	+31 28.7	1.842	2.819	2.8	18.2	12 27	6 21.38	+40 55.1	0.875	1.837	9.3	19.3
1 6	6 10.82	+31 38.7	1.868	2.828	5.4	18.4	1 6	6 4.69	+38 29.3	0.877	1.830	11.0	19.3
1 16	6 1.42	+31 37.7	1.924	2.837	9.0	18.6	1 16	5 51.66	+35 36.1	0.904	1.824	15.6	19.5
1 26	5 54.37	+31 28.4	2.005	2.846	12.3	18.8	1 26	5 43.94	+32 36.5	0.952	1.818	20.5	19.8
<b>196382</b>	2003 <i>GZ</i> <sub>4</sub>		12 26.7 316°88	1.8/26.5	18		<b>181965</b>	1999 <i>UN</i> <sub>41</sub>		12 26.7 352°53	3.8/26.7	18	
11 17	6 50.17	+25 33.4	1.401	2.201	19.0	20.2	11 17	6 51.48	+17 14.1	1.365	2.158	19.8	19.9
11 27	6 47.85	+25 58.8	1.309	2.185	15.4	19.9	11 27	6 48.38	+16 31.4	1.286	2.156	16.1	19.7
12 7	6 41.86	+26 27.4	1.235	2.170	10.9	19.6	12 7	6 41.84	+15 54.2	1.225	2.154	11.6	19.4
12 17	6 32.70	+26 55.6	1.184	2.156	5.7	19.3	12 17	6 32.50	+15 24.0	1.187	2.153	6.7	19.1
12 27	6 21.56	+27 18.7	1.159	2.141	1.8	19.0	12 27	6 21.62	+15 2.6	1.175	2.153	3.8	19.0
1 6	6 10.19	+27 33.1	1.160	2.128	6.4	19.3	1 6	6 10.83	+14 50.7	1.189	2.152	7.0	19.2
1 16	6 0.39	+27 38.3	1.186	2.115	11.8	19.5	1 16	6 1.71	+14 48.7	1.228	2.152	11.8	19.4
1 26	5 53.69	+27 36.3	1.234	2.102	16.6	19.8	1 26	5 55.49	+14 55.8	1.289	2.153	16.3	19.7
<b>68908</b>	2002 <i>JW</i> <sub>117</sub>		12 26.7 65°69	3.3/27.3	18		<b>522155</b>	2016 <i>AU</i> <sub>251</sub>		12 26.7 187°36	0.8/26.7	18	
11 17	6 48.65	+12 26.9	2.115	2.871	14.9	19.0	11 17	6 49.90	+22 19.4	2.453	3.212	12.9	21.1
11 27	6 44.68	+12 30.3	2.037	2.883	12.0	18.9	11 27	6 45.46	+21 56.9	2.358	3.212	10.3	21.0
12 7	6 38.45	+12 43.3	1.980	2.896	8.7	18.7	12 7	6 38.90	+21 34.9	2.287	3.212	7.2	20.8
12 17	6 30.50	+13 5.9	1.950	2.908	5.3	18.5	12 17	6 30.71	+21 12.7	2.242	3.211	3.7	20.5
12 27	6 21.66	+13 37.5	1.947	2.921	3.3	18.4	12 27	6 21.69	+20 50.4	2.228	3.211	0.8	20.3
1 6	6 12.92	+14 16.1	1.974	2.934	5.1	18.5	1 6	6 12.75	+20 28.4	2.244	3.210	3.9	20.5
1 16	6 5.23	+14 59.6	2.030	2.947	8.4	18.8	1 16	6 4.77	+20 7.4	2.290	3.209	7.4	20.8
1 26	5 59.38	+15 45.7	2.112	2.960	11.5	19.0	1 26	5 58.51	+19 48.6	2.363	3.209	10.5	21.0
<b>488084</b>	2015 <i>VS</i> <sub>30</sub>		12 26.7 141°59	1.0/26.6	18		<b>302572</b>	2002 <i>PB</i> <sub>79</sub>		12 26.7 59°05</			

EPHEMERIDES

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>259395</b>	2003 <i>PD</i> <sub>2</sub>		12 26.7 155°37'	1.3°/26.6	17		<b>463088</b>	2011 <i>SR</i> <sub>191</sub>		12 26.7 57°60'	0.2°/26.7	18	
11 17	6 51.72	+27 50.8	2.378	3.138	13.3	20.6	11 17	6 47.03	+23 52.4	2.795	3.554	11.5	21.1
11 27	6 47.07	+27 51.2	2.287	3.141	10.6	20.5	11 27	6 42.87	+23 53.8	2.720	3.574	9.1	20.9
12 7	6 40.10	+27 49.7	2.220	3.144	7.4	20.3	12 7	6 36.92	+23 55.7	2.668	3.594	6.2	20.8
12 17	6 31.34	+27 44.3	2.179	3.146	3.9	20.0	12 17	6 29.67	+23 57.1	2.644	3.614	3.1	20.6
12 27	6 21.67	+27 33.3	2.167	3.149	1.3	19.9	12 27	6 21.81	+23 57.1	2.650	3.633	0.2	20.4
1 6	6 12.11	+27 16.4	2.186	3.151	4.2	20.1	1 6	6 14.10	+23 55.2	2.687	3.653	3.3	20.7
1 16	6 3.63	+26 54.8	2.235	3.153	7.6	20.3	1 16	6 7.25	+23 51.5	2.754	3.673	6.3	20.9
1 26	5 57.05	+26 30.2	2.310	3.155	10.8	20.5	1 26	6 1.89	+23 46.8	2.848	3.693	8.9	21.1
<b>218461</b>	2004 <i>RC</i> <sub>310</sub>		12 26.7 306°10'	19.7°/23.8	18		<b>221949</b>	1993 <i>SJ</i> <sub>9</sub>		12 26.7 69°75'	7.2°/27.6	18	
11 17	6 52.42	- 5 44.2	1.131	1.876	25.8	19.5	11 17	6 47.99	+ 3 13.6	2.152	2.880	15.4	19.8
11 27	6 49.64	- 9 10.8	1.071	1.872	23.5	19.3	11 27	6 43.99	+ 2 19.7	2.082	2.896	13.1	19.7
12 7	6 43.05	-12 17.3	1.027	1.867	21.4	19.2	12 7	6 37.90	+ 1 38.9	2.033	2.912	10.5	19.5
12 17	6 33.25	-14 46.9	1.001	1.863	20.0	19.1	12 17	6 30.23	+ 1 14.4	2.008	2.928	8.3	19.4
12 27	6 21.60	-16 24.4	0.994	1.859	19.8	19.0	12 27	6 21.79	+ 1 8.6	2.009	2.943	7.2	19.4
1 6	6 9.92	-17 2.6	1.004	1.856	20.8	19.1	1 6	6 13.51	+ 1 21.3	2.038	2.959	8.0	19.5
1 16	6 0.01	-16 42.8	1.032	1.852	22.7	19.2	1 16	6 6.25	+ 1 51.0	2.094	2.975	10.1	19.6
1 26	5 53.34	-15 34.8	1.074	1.849	24.9	19.3	1 26	6 0.73	+ 2 34.1	2.174	2.991	12.4	19.8
<b>485626</b>	2011 <i>UY</i> <sub>366</sub>		12 26.7 68°16'	1.0°/26.5	17		<b>100783</b>	1998 <i>FZ</i> <sub>57</sub>		12 26.7 352°74'	1.8°/26.6	18	
11 17	6 52.78	+24 9.5	1.731	2.510	16.8	21.9	11 17	6 49.08	+26 18.0	1.107	1.928	21.8	18.8
11 27	6 48.71	+24 35.2	1.658	2.523	13.4	21.7	11 27	6 47.68	+26 27.9	1.034	1.922	17.5	18.5
12 7	6 41.65	+25 3.6	1.605	2.535	9.3	21.5	12 7	6 42.07	+26 38.7	0.977	1.917	12.4	18.2
12 17	6 32.25	+25 31.7	1.578	2.548	4.7	21.2	12 17	6 32.90	+26 46.4	0.941	1.914	6.5	17.9
12 27	6 21.64	+25 55.9	1.578	2.560	1.0	21.0	12 27	6 21.69	+26 46.9	0.929	1.911	1.8	17.6
1 6	6 11.21	+26 14.1	1.607	2.573	5.1	21.3	1 6	6 10.55	+26 38.4	0.941	1.910	7.0	17.9
1 16	6 2.25	+26 25.8	1.663	2.586	9.4	21.6	1 16	6 1.53	+26 22.2	0.975	1.910	12.9	18.2
1 26	5 55.80	+26 32.4	1.744	2.599	13.2	21.9	1 26	5 56.16	+26 1.9	1.031	1.912	18.0	18.5
<b>56444</b>	2000 <i>GB</i> <sub>68</sub>		12 26.7 163°71'	0.3°/26.7	18		<b>138642</b>	2000 <i>RV</i> <sub>27</sub>		12 26.7 78°03'	0.4°/26.7	18	
11 17	6 55.20	+21 55.4	2.088	2.847	15.0	19.9	11 17	6 51.40	+22 56.8	2.008	2.778	15.1	19.9
11 27	6 50.08	+22 3.2	2.000	2.853	11.9	19.7	11 27	6 47.12	+22 46.1	1.927	2.787	12.0	19.7
12 7	6 42.34	+22 13.9	1.934	2.858	8.3	19.5	12 7	6 40.29	+22 36.4	1.868	2.796	8.3	19.5
12 17	6 32.54	+22 25.8	1.894	2.863	4.2	19.2	12 17	6 31.51	+22 26.8	1.835	2.805	4.2	19.2
12 27	6 21.64	+22 36.8	1.884	2.867	0.3	18.9	12 27	6 21.75	+22 16.3	1.830	2.813	0.4	18.9
1 6	6 10.81	+22 45.6	1.904	2.871	4.5	19.3	1 6	6 12.16	+22 4.8	1.855	2.822	4.4	19.3
1 16	6 1.18	+22 52.1	1.954	2.873	8.5	19.5	1 16	6 3.81	+21 53.0	1.908	2.831	8.4	19.5
1 26	5 53.69	+22 56.9	2.030	2.875	12.0	19.8	1 26	5 57.58	+21 41.8	1.987	2.839	11.9	19.8
<b>434551</b>	2005 <i>TC</i> <sub>97</sub>		12 26.7 131°64'	0.8°/26.7	16		<b>457705</b>	2009 <i>FN</i> <sub>6</sub>		12 26.7 94°19'	18.2°/30.8	17	
11 17	6 55.65	+21 29.2	1.823	2.590	16.5	22.5	11 17	6 53.37	- 9 46.0	1.083	1.814	27.5	20.8
11 27	6 50.70	+21 23.0	1.744	2.601	13.2	22.3	11 27	6 50.43	-11 31.2	1.028	1.820	24.8	20.6
12 7	6 42.88	+21 19.7	1.686	2.613	9.2	22.0	12 7	6 43.58	-12 42.4	0.985	1.826	22.1	20.4
12 17	6 32.83	+21 17.9	1.654	2.623	4.7	21.8	12 17	6 33.51	-13 6.8	0.958	1.831	19.7	20.3
12 27	6 21.65	+21 16.2	1.650	2.633	0.8	21.5	12 27	6 21.68	-12 35.2	0.948	1.837	18.3	20.2
1 6	6 10.67	+21 14.0	1.676	2.643	4.9	21.8	1 6	6 9.98	-11 7.4	0.957	1.843	18.5	20.3
1 16	6 1.12	+21 11.4	1.730	2.652	9.2	22.1	1 16	6 0.26	- 8 52.1	0.986	1.848	20.2	20.4
1 26	5 53.99	+21 9.5	1.810	2.660	13.0	22.4	1 26	5 53.89	- 6 4.4	1.033	1.854	22.7	20.6
<b>263427</b>	2008 <i>DQ</i> <sub>65</sub>		12 26.7 218°25'	1.2°/26.8	18		<b>446153</b>	2013 <i>EP</i> <sub>106</sub>		12 26.7 44°06'	0.2°/26.7	18	
11 17	6 50.21	+19 8.5	2.358	3.115	13.5	21.6	11 17	6 50.72	+20 58.4	1.710	2.491	16.9	20.9
11 27	6 45.90	+19 8.4	2.258	3.109	10.8	21.4	11 27	6 47.11	+21 21.2	1.635	2.500	13.4	20.7
12 7	6 39.36	+19 12.4	2.180	3.103	7.6	21.2	12 7	6 40.59	+21 49.7	1.580	2.510	9.3	20.5
12 17	6 31.03	+19 19.7	2.129	3.097	4.0	21.0	12 17	6 31.78	+22 21.4	1.549	2.520	4.7	20.3
12 27	6 21.71	+19 29.4	2.108	3.090	1.2	20.7	12 27	6 21.75	+22 53.5	1.546	2.530	0.2	19.9
1 6	6 12.35	+19 40.5	2.117	3.082	4.2	20.9	1 6	6 11.83	+23 23.2	1.572	2.540	4.9	20.3
1 16	6 3.90	+19 52.6	2.156	3.075	7.8	21.2	1 16	6 3.30	+23 49.2	1.625	2.551	9.4	20.6
1 26	5 57.19	+20 5.3	2.221	3.067	11.1	21.4	1 26	5 57.19	+24 11.5	1.703	2.562	13.2	20.9
<b>131470</b>	2001 <i>RN</i> <sub>46</sub>		12 26.7 315°78'	4.3°/27.6	17		<b>236531</b>	2006 <i>HK</i> <sub>19</sub>		12 26.7 126°31'	0.9°/26.8	18	
11 17	7 6.65	+38 10.4	1.052	1.846	24.4	18.9	11 17	6 53.90	+19 48.0	2.203	2.958	14.4	21.7
11 27	7 2.41	+37 11.6	0.970	1.838	20.3	18.6	11 27	6 48.78	+19 56.4	2.124	2.975	11.4	21.5
12 7	6 52.60	+35 48.8	0.904	1.830	15.0	18.2	12 7	6 41.28	+20 8.8	2.068	2.991	7.9	21.3
12 17	6 38.18	+33 54.0	0.858	1.823	8.9	17.9	12 17	6 31.97	+20 24.0	2.038	3.006	4.1	21.1
12 27	6 21.47	+31 24.6	0.837	1.816	4.4	17.6	12 27	6 21.76	+20 40.4	2.038	3.021	0.9	20.9
1 6	6 5.46	+28 29.9	0.842	1.809	8.2	17.8	1 6	6 11.69	+20 56.6	2.069	3.035	4.2	21.2
1 16	5 52.77	+25 27.8	0.872	1.803	14.6	18.1	1 16	6 2.78	+21 12.0	2.129	3.048	7.9	21.4
1 26	5 44.95	+22 37.1	0.925	1.798	20.4	18.4	1 26	5 55.82	+21 26.5	2.216	3.061	11.2	21.6
<b>520819</b>	2014 <i>TQ</i> <sub>94</sub>		12 26.7 234°79'	3.4°/26.1	18		<b>500305</b>	2012 <i>QK</i> <sub>42</sub>		12 26.7 21°19'	13.0°/30.3	17	
11 17	6 50.94	+32 11.4	2.552	3.309	12.6	21.6	11 17	7 14.78	+50 59.4	0.889	1.671	28.7	20.4
11 27	6 46.61	+32 55.5	2.456	3.305	10.2	21.4	11 27	7 10.84	+50 57.9	0.830	1.675	25.0	20.2
12 7	6 39.93	+33 37.8	2.384	3.300	7.4	21.2	12 7	6 59.19	+50 23.2	0.783	1.679	20.6	19.9
12 17	6 31.36	+34 14.4	2.338	3.296	4.7	21.0	12 17	6 41.47	+48 57.0	0.752	1.684	16.1	19.7
12 27	6 21.71	+34 41.7	2.322	3.292	3.4	20.9	12 27	6 21.45	+46 27.9	0.742	1.691	13.2	19.6
1 6	6 12.01	+34 57.5	2.336	3.287	5.1	21.1	1 6	6 3.59	+43 3.2	0.753	1.698	13.9	19.6
1 16	6 3.25	+35 1.8	2.378	3.283	8.0	21.2	1 16	5 50.98	+39 8.1	0.788	1.706	17.5	19.9
1 26	5 56.35	+34 56.4	2.447	3.278	10.7	21.4	1 26	5 44.77	+35 11.9	0.843	1.715	21.9	20.2
<b>295127</b>	2008 <i>FT</i> <sub>25</sub>		12 26.7 238°80'	3.0°/26.3	18		<b>206571</b>	2003 <i>UT</i> <sub>3</sub>					

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>501591</b>	2014 <i>QF</i> <sub>166</sub>		12 26.7	20°58'	17°5'/30.7	18	<b>202823</b>	2008 <i>SW</i> <sub>107</sub>		12 26.7	68°00'	4°4'/26.9	17
11 17	7 11.17	+55 33.3	0.949	1.718	28.2	20.4	11 17	6 47.80	+11 32.0	2.289	3.039	14.0	20.9
11 27	7 9.02	+56 40.6	0.899	1.722	25.2	20.2	11 27	6 43.85	+10 50.9	2.206	3.046	11.5	20.7
12 7	6 58.69	+57 17.7	0.861	1.728	22.1	20.0	12 7	6 37.83	+10 16.7	2.145	3.053	8.6	20.6
12 17	6 41.52	+57 4.9	0.838	1.735	19.3	19.9	12 17	6 30.26	+9 51.4	2.110	3.060	5.8	20.4
12 27	6 21.45	+55 46.5	0.832	1.744	17.6	19.8	12 27	6 21.89	+9 36.4	2.103	3.067	4.4	20.3
1 6	6 3.45	+53 23.2	0.846	1.753	17.9	19.9	1 6	6 13.62	+9 32.1	2.125	3.074	5.8	20.4
1 16	5 51.06	+50 12.8	0.879	1.764	19.9	20.0	1 16	6 6.29	+9 37.9	2.176	3.081	8.5	20.6
1 26	5 45.53	+46 40.7	0.931	1.775	22.7	20.3	1 26	6 0.64	+9 52.6	2.252	3.089	11.3	20.8
<b>98979</b>	2001 <i>DB</i> <sub>21</sub>		12 26.7	5°72'	3°2'/27.3	18	<b>438027</b>	2004 <i>EN</i> <sub>85</sub>		12 26.7	248°70'	4°4'/27.1	18
11 17	6 46.79	+14 8.8	1.302	2.102	20.2	18.7	11 17	6 52.90	+12 0.9	1.888	2.641	16.5	22.3
11 27	6 44.86	+14 22.7	1.228	2.102	16.4	18.4	11 27	6 48.76	+11 41.8	1.780	2.624	13.6	22.0
12 7	6 39.55	+14 51.2	1.172	2.103	11.8	18.2	12 7	6 41.84	+11 32.0	1.693	2.606	10.1	21.8
12 17	6 31.45	+15 34.3	1.138	2.105	6.8	17.9	12 17	6 32.56	+11 33.3	1.631	2.587	6.5	21.5
12 27	6 21.78	+16 29.5	1.129	2.108	3.2	17.7	12 27	6 21.81	+11 46.4	1.596	2.567	4.4	21.4
1 6	6 12.12	+17 32.5	1.145	2.113	6.4	17.9	1 6	6 10.81	+12 10.6	1.591	2.547	6.5	21.4
1 16	6 4.05	+18 38.4	1.187	2.119	11.4	18.2	1 16	6 0.81	+12 44.5	1.613	2.526	10.4	21.6
1 26	5 58.83	+19 43.5	1.251	2.125	16.0	18.5	1 26	5 52.96	+13 25.8	1.660	2.505	14.3	21.8
<b>270912</b>	2002 <i>TE</i> <sub>358</sub>		12 26.7	181°33'	4°0'/26.3	18	<b>223215</b>	2003 <i>BR</i> <sub>76</sub>		12 26.7	18°51'	1°5'/26.3	18
11 17	6 52.37	+35 27.6	2.555	3.305	12.7	21.2	11 17	6 47.53	+19 20.5	0.967	1.796	23.5	19.0
11 27	6 47.74	+36 1.8	2.464	3.306	10.4	21.0	11 27	6 46.60	+20 46.6	0.912	1.806	18.7	18.7
12 7	6 40.70	+36 31.4	2.396	3.306	7.7	20.8	12 7	6 41.39	+22 29.1	0.875	1.818	13.0	18.5
12 17	6 31.75	+36 52.4	2.354	3.306	5.2	20.7	12 17	6 32.59	+24 20.9	0.858	1.832	6.5	18.2
12 27	6 21.78	+37 1.4	2.342	3.306	4.0	20.6	12 27	6 21.81	+26 10.9	0.865	1.848	1.5	17.9
1 6	6 11.85	+36 57.1	2.359	3.305	5.5	20.7	1 6	6 11.23	+27 48.5	0.895	1.865	7.2	18.3
1 16	6 3.00	+36 40.3	2.405	3.305	8.1	20.9	1 16	6 2.93	+29 7.6	0.949	1.884	13.1	18.7
1 26	5 56.11	+36 13.7	2.477	3.304	10.7	21.0	1 26	5 58.39	+30 7.7	1.023	1.905	18.1	19.1
<b>358283</b>	2006 <i>UU</i> <sub>41</sub>		12 26.7	126°76'	0°2'/26.7	18	<b>99069</b>	2001 <i>FB</i> <sub>8</sub>		12 26.7	217°84'	1°8'/26.5	18
11 17	6 52.83	+22 23.7	2.283	3.041	13.8	22.1	11 17	6 54.30	+28 0.0	2.306	3.063	13.7	20.4
11 27	6 47.90	+22 28.3	2.202	3.055	11.0	21.9	11 27	6 49.44	+28 17.0	2.204	3.055	11.0	20.2
12 7	6 40.66	+22 35.0	2.143	3.068	7.6	21.7	12 7	6 42.00	+28 33.3	2.124	3.046	7.8	20.0
12 17	6 31.66	+22 42.1	2.111	3.080	3.8	21.5	12 17	6 32.50	+28 45.8	2.070	3.037	4.2	19.8
12 27	6 21.79	+22 48.3	2.109	3.093	0.2	21.2	12 27	6 21.82	+28 51.9	2.046	3.027	1.8	19.6
1 6	6 12.05	+22 52.5	2.138	3.104	4.0	21.6	1 6	6 11.08	+28 50.0	2.053	3.016	4.6	19.8
1 16	6 3.42	+22 54.9	2.196	3.116	7.7	21.8	1 16	6 1.40	+28 40.7	2.090	3.005	8.2	20.0
1 26	5 56.71	+22 56.0	2.281	3.126	10.9	22.0	1 26	5 53.74	+28 25.8	2.153	2.993	11.6	20.2
<b>342405</b>	2008 <i>UX</i> <sub>56</sub>		12 26.7	15°20'	0°3'/26.7	18	<b>97145</b>	1999 <i>VX</i> <sub>144</sub>		12 26.7	73°28'	5°8'/27.1	18
11 17	6 48.89	+22 54.4	1.200	2.013	20.8	20.7	11 17	7 0.67	+38 43.1	1.703	2.463	17.8	17.4
11 27	6 46.84	+22 47.1	1.133	2.018	16.7	20.5	11 27	6 55.38	+38 57.9	1.632	2.477	14.6	17.3
12 7	6 41.03	+22 42.8	1.085	2.023	11.6	20.2	12 7	6 46.43	+39 2.0	1.582	2.491	11.0	17.1
12 17	6 32.19	+22 40.1	1.058	2.030	5.9	19.9	12 17	6 34.72	+38 49.2	1.555	2.505	7.5	16.9
12 27	6 21.77	+22 36.9	1.055	2.038	0.4	19.5	12 27	6 21.76	+38 15.4	1.555	2.518	5.8	16.8
1 6	6 11.61	+22 32.4	1.078	2.048	6.2	20.0	1 6	6 9.33	+37 21.1	1.584	2.532	7.4	17.0
1 16	6 3.40	+22 27.1	1.124	2.058	11.7	20.3	1 16	5 59.00	+36 11.3	1.639	2.546	10.7	17.2
1 26	5 58.40	+22 22.4	1.193	2.070	16.4	20.6	1 26	5 51.84	+34 53.2	1.720	2.560	14.0	17.4
<b>389640</b>	2011 <i>KX</i> <sub>47</sub>		12 26.7	206°18'	0°4'/26.7	18	<b>518384</b>	2017 <i>GL</i> <sub>9</sub>		12 26.7	238°40'	3°0'/26.1	17
11 17	6 54.11	+21 18.4	1.930	2.695	15.8	22.1	11 17	6 50.65	+30 12.8	2.460	3.220	12.9	21.0
11 27	6 49.62	+21 27.9	1.834	2.691	12.6	21.9	11 27	6 46.45	+31 0.4	2.368	3.219	10.4	20.8
12 7	6 42.31	+21 41.4	1.761	2.687	8.9	21.7	12 7	6 39.88	+31 47.6	2.298	3.219	7.4	20.6
12 17	6 32.70	+21 57.4	1.712	2.682	4.5	21.4	12 17	6 31.41	+32 30.5	2.256	3.218	4.5	20.4
12 27	6 21.77	+22 13.5	1.693	2.676	0.4	21.1	12 27	6 21.86	+33 5.3	2.243	3.217	3.0	20.3
1 6	6 10.78	+22 28.0	1.703	2.670	4.8	21.4	1 6	6 12.26	+33 29.7	2.261	3.216	5.0	20.4
1 16	6 0.98	+22 40.3	1.742	2.664	9.2	21.6	1 16	6 3.62	+33 43.2	2.307	3.215	8.0	20.6
1 26	5 53.46	+22 50.9	1.807	2.656	13.0	21.9	1 26	5 56.84	+33 47.2	2.380	3.214	10.8	20.8
<b>179302</b>	2001 <i>VO</i> <sub>85</sub>		12 26.7	98°31'	0°0'/26.7	18	<b>42854</b>	1999 <i>RV</i> <sub>70</sub>		12 26.7	12°13'	0°2'/26.7	17
11 17	6 52.18	+23 29.5	2.057	2.824	14.9	20.7	11 17	6 50.08	+22 39.9	2.108	2.878	14.5	19.9
11 27	6 47.68	+23 26.3	1.977	2.835	11.8	20.6	11 27	6 46.11	+22 40.0	2.018	2.878	11.5	19.7
12 7	6 40.67	+23 24.2	1.918	2.845	8.2	20.4	12 7	6 39.67	+22 41.9	1.950	2.878	8.0	19.5
12 17	6 31.72	+23 21.8	1.886	2.856	4.1	20.1	12 17	6 31.29	+22 44.5	1.908	2.878	4.1	19.3
12 27	6 21.81	+23 17.6	1.883	2.866	0.1	19.8	12 27	6 21.87	+22 46.3	1.895	2.878	0.2	18.9
1 6	6 12.07	+23 11.3	1.909	2.876	4.3	20.2	1 6	6 12.50	+22 46.6	1.911	2.879	4.3	19.3
1 16	6 3.56	+23 3.2	1.965	2.886	8.3	20.4	1 16	6 4.23	+22 45.4	1.956	2.879	8.2	19.5
1 26	5 57.14	+22 54.6	2.046	2.896	11.7	20.7	1 26	5 57.96	+22 43.4	2.027	2.879	11.7	19.7
<b>119213</b>	2001 <i>QF</i> <sub>168</sub>		12 26.7	200°88'	1°0'/26.8	18	<b>289108</b>	2004 <i>TX</i> <sub>326</sub>		12 26.7	352°72'	3°4'/26.6	17
11 17	6 54.91	+20 2.7	2.035	2.793	15.3	21.8	11 17	6 49.46	+16 50.2	2.001	2.768	15.2	20.3
11 27	6 50.06	+20 2.9	1.937	2.789	12.3	21.6	11 27	6 45.59	+15 56.7	1.912	2.766	12.3	20.1
12 7	6 42.50	+20 7.2	1.861	2.785	8.6	21.4	12 7	6 39.28	+15 6.0	1.844	2.765	8.9	19.8
12 17	6 32.76	+20 14.4	1.811	2.779	4.5	21.1	12 17	6 31.08	+14 19.8	1.802	2.764	5.4	19.6
12 27	6 21.78	+20 23.0	1.791	2.773	1.1	20.8	12 27	6 21.89	+13 40.1	1.788	2.763	3.4	19.5
1 6	6 10.75	+20 32.0	1.800	2.766	4.7	21.1	1 6	6 12.79	+13 8.5	1.804	2.762	5.7	19.6
1 16	6 0.85	+20 40.8	1.839	2.759	8.9	21.3	1 16	6 4.81	+12 46.0	1.847	2.762	9.2	19.9
1 26	5 53.11	+20 49.8	1.904	2.750	12.6	21.5	1 26	5 58.81	+12 32.8	1.916	2.762	12.6	20.1
<b>438776</b>	2008 <i>UV</i> <sub>357</sub>		12 26.7	157°63'	2°8'/26.9	18	<b>49371</b>	1998 <i>WZ</i> <sub>21</sub>		12 26.7			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>88867</b>	2001 <i>SN</i> <sub>252</sub>		12 26.7	67°01'	0°3'/26.7	18	<b>225366</b>	1999 <i>CC</i> <sub>97</sub>		12 26.7	358°23'	7°0'/28.1	17
11 17	6 51.10	+21 53.7	1.902	2.675	15.7	20.4	11 17	6 41.55	+6 54.8	1.422	2.209	19.5	18.7
11 27	6 47.11	+22 0.8	1.822	2.683	12.5	20.2	11 27	6 40.34	+6 35.0	1.344	2.202	16.3	18.4
12 7	6 40.45	+22 11.2	1.763	2.691	8.7	20.0	12 7	6 36.24	+6 33.0	1.284	2.198	12.6	18.2
12 17	6 31.71	+22 23.2	1.730	2.700	4.4	19.7	12 17	6 29.77	+6 52.4	1.246	2.195	9.0	18.0
12 27	6 21.88	+22 35.0	1.725	2.708	0.3	19.4	12 27	6 21.97	+7 34.5	1.231	2.194	7.0	17.9
1 6	6 12.17	+22 45.2	1.749	2.716	4.6	19.8	1 6	6 14.15	+8 37.1	1.241	2.195	8.4	18.0
1 16	6 3.73	+22 53.5	1.801	2.725	8.8	20.1	1 16	6 7.62	+9 55.2	1.276	2.198	11.8	18.2
1 26	5 57.49	+23 0.2	1.879	2.733	12.4	20.3	1 26	6 3.49	+11 22.6	1.334	2.202	15.5	18.4
<b>150262</b>	1999 <i>RN</i> <sub>101</sub>		12 26.7	89°94'	1°0'/26.8	18	<b>96942</b>	1999 <i>TQ</i> <sub>154</sub>		12 26.7	75°45'	0°5'/26.7	18
11 17	6 50.42	+19 58.5	2.138	2.903	14.5	20.9	11 17	6 53.85	+23 0.2	1.700	2.478	17.1	19.9
11 27	6 46.20	+20 0.9	2.057	2.913	11.5	20.7	11 27	6 49.57	+23 20.5	1.630	2.494	13.6	19.7
12 7	6 39.61	+20 7.3	1.998	2.923	8.0	20.5	12 7	6 42.29	+23 44.4	1.580	2.510	9.4	19.5
12 17	6 31.22	+20 16.6	1.965	2.934	4.2	20.3	12 17	6 32.68	+24 8.8	1.556	2.526	4.8	19.3
12 27	6 21.90	+20 27.5	1.961	2.944	1.0	20.1	12 27	6 21.89	+24 30.9	1.559	2.542	0.5	19.0
1 6	6 12.70	+20 39.1	1.988	2.954	4.3	20.3	1 6	6 11.33	+24 48.3	1.590	2.558	5.0	19.4
1 16	6 4.60	+20 50.6	2.043	2.964	8.0	20.6	1 16	6 2.28	+25 0.8	1.650	2.574	9.4	19.7
1 26	5 58.43	+21 2.2	2.124	2.974	11.3	20.8	1 26	5 55.78	+25 9.2	1.734	2.590	13.2	19.9
<b>341116</b>	2007 <i>LK</i> <sub>12</sub>		12 26.7	162°80'	2°6'/26.8	18	<b>414671</b>	2009 <i>WT</i> <sub>73</sub>		12 26.7	79°15'	3°2'/26.8	17
11 17	6 53.64	+17 29.0	1.935	2.697	15.9	21.4	11 17	6 49.08	+15 16.9	2.246	3.002	14.1	21.2
11 27	6 48.99	+17 1.3	1.849	2.701	12.8	21.1	11 27	6 44.94	+14 39.3	2.161	3.009	11.4	21.1
12 7	6 41.69	+16 37.9	1.783	2.704	9.1	20.9	12 7	6 38.64	+14 6.5	2.100	3.017	8.2	20.9
12 17	6 32.33	+16 19.3	1.743	2.708	5.2	20.7	12 17	6 30.71	+13 39.6	2.064	3.024	5.0	20.7
12 27	6 21.87	+16 5.9	1.732	2.711	2.6	20.5	12 27	6 21.96	+13 19.7	2.058	3.031	3.2	20.6
1 6	6 11.52	+15 57.8	1.750	2.713	5.3	20.7	1 6	6 13.33	+13 7.2	2.081	3.038	5.1	20.7
1 16	6 2.40	+15 55.2	1.797	2.715	9.2	21.0	1 16	6 5.70	+13 2.3	2.132	3.045	8.2	20.9
1 26	5 55.45	+15 57.9	1.870	2.716	12.8	21.2	1 26	5 59.83	+13 4.5	2.210	3.052	11.3	21.1
<b>248885</b>	2006 <i>UQ</i> <sub>190</sub>		12 26.7	118°02'	0°3'/26.7	18	<b>426654</b>	2013 <i>SB</i> <sub>84</sub>		12 26.7	135°44'	3°2'/26.7	18
11 17	6 53.88	+23 50.0	2.102	2.864	14.7	20.9	11 17	6 52.89	+34 17.0	2.552	3.303	12.7	20.6
11 27	6 48.94	+23 28.9	2.019	2.875	11.7	20.7	11 27	6 48.00	+34 24.1	2.462	3.306	10.3	20.4
12 7	6 41.49	+23 7.5	1.959	2.885	8.1	20.5	12 7	6 40.78	+34 25.8	2.395	3.309	7.5	20.2
12 17	6 32.15	+22 44.8	1.926	2.895	4.1	20.3	12 17	6 31.80	+34 18.9	2.354	3.311	4.7	20.1
12 27	6 21.89	+22 20.5	1.922	2.905	0.4	20.0	12 27	6 21.93	+34 1.5	2.343	3.314	3.2	20.0
1 6	6 11.84	+21 55.0	1.948	2.915	4.3	20.4	1 6	6 12.21	+33 33.2	2.362	3.317	4.8	20.1
1 16	6 3.05	+21 29.6	2.003	2.924	8.2	20.6	1 16	6 3.62	+32 55.7	2.411	3.319	7.6	20.3
1 26	5 56.35	+21 5.9	2.085	2.933	11.6	20.8	1 26	5 56.95	+32 12.1	2.486	3.322	10.4	20.4
<b>244705</b>	2003 <i>QN</i> <sub>29</sub>		12 26.7	49°73'	9°6'/28.4	18	<b>82270</b>	2001 <i>KZ</i> <sub>16</sub>		12 26.7	190°06'	3°7'/26.9	18
11 17	6 50.02	+1 56.5	1.490	2.240	20.3	20.1	11 17	6 53.48	+14 35.6	1.778	2.541	17.0	20.3
11 27	6 46.51	+0 56.4	1.434	2.260	17.2	20.0	11 27	6 49.18	+14 10.5	1.689	2.540	13.8	20.1
12 7	6 40.10	+0 16.0	1.395	2.279	14.0	19.8	12 7	6 42.04	+13 52.8	1.621	2.540	10.1	19.8
12 17	6 31.52	+0 0.5	1.377	2.299	11.0	19.7	12 17	6 32.61	+13 43.7	1.577	2.538	6.1	19.6
12 27	6 21.91	+0 12.5	1.383	2.320	9.6	19.7	12 27	6 21.90	+13 43.7	1.561	2.536	3.7	19.4
1 6	6 12.59	+0 51.0	1.415	2.341	10.4	19.8	1 6	6 11.21	+13 52.4	1.574	2.534	6.1	19.6
1 16	6 4.77	+1 51.6	1.471	2.362	12.8	20.0	1 16	6 1.78	+14 8.8	1.614	2.531	10.1	19.8
1 26	5 59.39	+3 7.7	1.549	2.383	15.6	20.2	1 26	5 54.67	+14 31.7	1.680	2.528	13.9	20.0
<b>235868</b>	2005 <i>AP</i> <sub>80</sub>		12 26.7	331°39'	0°7'/26.8	18	<b>221445</b>	2006 <i>AM</i> <sub>63</sub>		12 26.7	48°09'	0°3'/26.7	18
11 17	6 47.93	+20 4.6	2.098	2.870	14.5	20.5	11 17	6 50.04	+22 22.1	1.981	2.754	15.2	20.7
11 27	6 44.50	+20 18.1	2.004	2.864	11.6	20.3	11 27	6 46.17	+22 22.3	1.900	2.762	12.1	20.5
12 7	6 38.64	+20 36.5	1.931	2.858	8.1	20.1	12 7	6 39.74	+22 24.9	1.841	2.769	8.4	20.3
12 17	6 30.84	+20 58.6	1.884	2.853	4.2	19.8	12 17	6 31.35	+22 28.4	1.808	2.778	4.2	20.1
12 27	6 21.93	+21 22.6	1.865	2.848	0.7	19.5	12 27	6 21.95	+22 31.5	1.802	2.786	0.3	19.8
1 6	6 12.97	+21 46.8	1.876	2.844	4.4	19.8	1 6	6 12.67	+22 33.4	1.827	2.794	4.4	20.1
1 16	6 5.00	+22 9.9	1.915	2.839	8.3	20.1	1 16	6 4.60	+22 34.0	1.879	2.803	8.4	20.4
1 26	5 58.96	+22 31.5	1.980	2.835	11.8	20.3	1 26	5 58.62	+22 33.9	1.957	2.811	12.0	20.6
<b>402291</b>	2005 <i>SH</i> <sub>200</sub>		12 26.7	160°69'	1°8'/26.5	18	<b>35770</b>	1999 <i>JH</i> <sub>2</sub>		12 26.7	80°73'	3°4'/27.1	18
11 17	6 53.16	+28 6.0	2.536	3.289	12.7	22.5	11 17	6 54.27	+15 14.3	1.367	2.150	20.3	18.9
11 27	6 48.16	+28 28.4	2.446	3.295	10.2	22.3	11 27	6 50.49	+15 6.9	1.298	2.162	16.3	18.7
12 7	6 40.88	+28 49.9	2.379	3.301	7.1	22.1	12 7	6 43.26	+15 10.3	1.248	2.174	11.7	18.5
12 17	6 31.86	+29 7.8	2.340	3.306	3.9	21.9	12 17	6 33.29	+15 24.7	1.220	2.185	6.7	18.2
12 27	6 21.90	+29 19.7	2.331	3.310	1.8	21.8	12 27	6 21.89	+15 48.9	1.218	2.197	3.4	18.1
1 6	6 12.00	+29 24.3	2.352	3.314	4.2	21.9	1 6	6 10.70	+16 20.5	1.244	2.209	6.5	18.3
1 16	6 3.11	+29 21.7	2.404	3.317	7.4	22.1	1 16	6 1.26	+16 56.9	1.295	2.220	11.3	18.6
1 26	5 56.04	+29 13.6	2.482	3.320	10.3	22.3	1 26	5 54.75	+17 36.0	1.369	2.231	15.6	18.9
<b>16301</b>	6576 <i>P-L</i>		12 26.7	348°44'	3°3'/26.4	18	<b>464287</b>	2016 <i>AK</i> <sub>73</sub>		12 26.7	271°50'	2°6'/26.9	18
11 17	6 52.49	+28 14.9	1.317	2.119	20.0	17.4	11 17	6 48.05	+16 22.2	2.382	3.139	13.3	21.5
11 27	6 49.92	+28 51.2	1.238	2.115	16.1	17.2	11 27	6 44.18	+15 58.6	2.280	3.130	10.8	21.3
12 7	6 43.42	+29 28.6	1.178	2.112	11.5	16.9	12 7	6 38.20	+15 39.3	2.201	3.121	7.7	21.1
12 17	6 33.59	+30 1.5	1.140	2.109	6.4	16.6	12 17	6 30.55	+15 24.8	2.149	3.111	4.5	20.9
12 27	6 21.84	+30 23.8	1.128	2.107	3.3	16.4	12 27	6 21.98	+15 15.6	2.125	3.102	2.6	20.8
1 6	6 10.09	+30 32.1	1.141	2.106	7.0	16.6	1 6	6 13.37	+15 11.7	2.132	3.093	4.7	20.9
1 16	6 0.23	+30 26.7	1.178	2.105	12.1	16.9	1 16	6 5.61	+15 13.1	2.167	3.083	7.9	21.1
1 26	5 53.75	+30 11.4	1.238	2.104	16.7	17.2	1 26	5 59.51	+15 19.5	2.229	3.074	11.1	21.3
<b>454921</b>	2015 <i>TV</i> <sub>147</sub>		12 26.7	65°72'	1°5'/26.5	18	<b>5779</b>	Schupmann		12 26.7	350°62'	4°7'/27.5	18
11													

EPHEMERIDES

12 26.7

12 26.7

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>200050</b>	2008 <i>OL</i>		12 26.7 129°00	3°2/26.8 18			<b>51701</b>	2001 <i>KZ</i> <sub>23</sub>		12 26.7 115°54	4°6/26.1 18		
11 17	7 2.12	+33 19.3	2.071	2.818	15.4	20.3	11 17	6 56.63	+30 53.2	1.544	2.326	18.4	18.8
11 27	6 55.61	+33 22.2	1.993	2.836	12.4	20.1	11 27	6 52.77	+31 54.1	1.465	2.328	14.9	18.6
12 7	6 46.16	+33 18.8	1.938	2.853	8.9	19.9	12 7	6 45.18	+32 54.9	1.406	2.330	10.8	18.4
12 17	6 34.51	+33 5.1	1.909	2.869	5.3	19.7	12 17	6 34.46	+33 48.8	1.371	2.333	6.7	18.1
12 27	6 21.88	+32 38.6	1.910	2.885	3.2	19.6	12 27	6 21.93	+34 28.3	1.362	2.335	4.7	18.0
1 6	6 9.64	+31 59.6	1.942	2.900	5.4	19.8	1 6	6 9.39	+34 49.2	1.381	2.337	7.3	18.2
1 16	5 59.04	+31 11.2	2.003	2.914	8.8	20.0	1 16	5 58.63	+34 51.7	1.426	2.339	11.5	18.4
1 26	5 51.02	+30 18.0	2.091	2.927	12.1	20.3	1 26	5 51.03	+34 40.0	1.494	2.341	15.4	18.7
<b>326875</b>	2003 <i>UB</i> <sub>317</sub>		12 26.7 91°65	2°1/26.6 18			<b>386051</b>	2007 <i>FV</i> <sub>7</sub>		12 26.7 1°02	0°7/26.8 18		
11 17	6 57.35	+27 24.1	1.418	2.205	19.5	21.3	11 17	6 48.77	+21 59.0	1.192	2.006	21.0	20.9
11 27	6 53.17	+27 38.8	1.346	2.215	15.6	21.0	11 27	6 46.96	+21 53.7	1.119	2.003	16.8	20.6
12 7	6 45.25	+27 52.9	1.294	2.225	11.0	20.8	12 7	6 41.33	+21 52.8	1.064	2.002	11.8	20.4
12 17	6 34.34	+28 2.3	1.265	2.234	5.8	20.5	12 17	6 32.54	+21 54.9	1.030	2.002	6.1	20.0
12 27	6 21.88	+28 2.8	1.263	2.244	2.1	20.3	12 27	6 21.99	+21 58.1	1.020	2.003	0.7	19.7
1 6	6 9.71	+27 53.1	1.287	2.254	6.1	20.6	1 6	6 11.54	+22 0.9	1.035	2.005	6.3	20.1
1 16	5 59.51	+27 35.0	1.338	2.263	11.1	20.9	1 16	6 2.97	+22 3.1	1.074	2.008	12.0	20.4
1 26	5 52.51	+27 12.1	1.413	2.272	15.4	21.2	1 26	5 57.65	+22 5.7	1.134	2.012	16.9	20.7
<b>486190</b>	2013 <i>AK</i> <sub>37</sub>		12 26.7 40°22	1°1/26.7 17			<b>401489</b>	2013 <i>DY</i> <sub>5</sub>		12 26.7 201°12	2°3/26.4 17		
11 17	6 54.99	+26 0.4	1.235	2.036	21.0	20.2	11 17	6 53.82	+29 9.1	2.437	3.191	13.2	22.4
11 27	6 51.25	+26 0.3	1.187	2.064	16.6	20.0	11 27	6 48.97	+29 40.2	2.338	3.188	10.6	22.2
12 7	6 43.73	+26 0.0	1.157	2.092	11.5	19.8	12 7	6 41.66	+30 10.5	2.263	3.183	7.5	22.0
12 17	6 33.40	+25 56.4	1.150	2.122	5.8	19.6	12 17	6 32.39	+30 36.8	2.214	3.179	4.3	21.8
12 27	6 21.92	+25 47.1	1.169	2.152	1.1	19.4	12 27	6 22.00	+30 55.8	2.196	3.173	2.4	21.7
1 6	6 11.12	+25 31.8	1.213	2.182	5.9	19.8	1 6	6 11.56	+31 5.6	2.208	3.167	4.7	21.8
1 16	6 2.55	+25 12.5	1.283	2.213	10.9	20.2	1 16	6 2.13	+31 6.2	2.250	3.161	7.9	22.0
1 26	5 57.22	+24 52.3	1.376	2.245	15.2	20.5	1 26	5 54.62	+30 59.4	2.318	3.154	11.0	22.2
<b>220103</b>	2002 <i>TK</i> <sub>14</sub>		12 26.7 65°89	5°3/26.3 18			<b>78051</b>	2002 <i>JO</i> <sub>135</sub>		12 26.7 74°94	0°5/26.8 18		
11 17	6 57.96	+32 38.3	1.384	2.172	19.9	19.7	11 17	6 55.50	+20 6.1	1.747	2.516	17.1	19.2
11 27	6 54.03	+33 34.1	1.320	2.185	16.1	19.5	11 27	6 50.58	+20 28.1	1.686	2.544	13.5	19.0
12 7	6 46.06	+34 26.8	1.275	2.199	11.7	19.3	12 7	6 42.81	+20 55.7	1.645	2.572	9.3	18.9
12 17	6 34.82	+35 8.3	1.253	2.213	7.4	19.1	12 17	6 32.90	+21 26.4	1.631	2.600	4.7	18.6
12 27	6 21.88	+35 31.5	1.256	2.227	5.4	19.0	12 27	6 21.99	+21 57.2	1.644	2.628	0.5	18.4
1 6	6 9.27	+35 33.3	1.286	2.241	7.9	19.2	1 6	6 11.41	+22 25.9	1.687	2.655	4.8	18.8
1 16	5 58.83	+35 16.2	1.341	2.255	12.0	19.4	1 16	6 2.36	+22 51.2	1.759	2.682	9.0	19.1
1 26	5 51.90	+34 45.9	1.419	2.270	15.9	19.7	1 26	5 55.76	+23 13.2	1.856	2.708	12.6	19.4
<b>249319</b>	2008 <i>UN</i> <sub>201</sub>		12 26.7 38°25	4°6/25.8 18			<b>485735</b>	2012 <i>BQ</i> <sub>75</sub>		12 26.7 268°47	0°9/26.7 18		
11 17	6 51.89	+33 28.7	2.159	2.923	14.3	20.0	11 17	6 52.21	+26 35.6	2.066	2.834	14.8	21.7
11 27	6 47.88	+34 33.8	2.080	2.931	11.6	19.8	11 27	6 48.03	+26 29.7	1.967	2.826	11.8	21.4
12 7	6 41.13	+35 36.6	2.024	2.939	8.6	19.7	12 7	6 41.18	+26 22.5	1.890	2.817	8.3	21.2
12 17	6 32.16	+36 31.7	1.993	2.947	5.7	19.5	12 17	6 32.19	+26 11.7	1.839	2.808	4.3	20.9
12 27	6 21.96	+37 13.9	1.991	2.955	4.6	19.4	12 27	6 22.01	+25 56.0	1.816	2.799	0.9	20.7
1 6	6 11.78	+37 40.4	2.018	2.964	6.3	19.6	1 6	6 11.83	+25 35.0	1.823	2.790	4.6	20.9
1 16	6 2.81	+37 51.0	2.073	2.973	9.2	19.8	1 16	6 2.82	+25 9.8	1.859	2.781	8.7	21.2
1 26	5 56.09	+37 48.4	2.153	2.982	12.0	20.0	1 26	5 55.96	+24 42.9	1.921	2.772	12.3	21.4
<b>309610</b>	2008 <i>BH</i> <sub>42</sub>		12 26.7 351°60	4°3/27.9 17			<b>85055</b>	6872 <i>P-L</i>		12 26.7 203°70	0°8/26.7 18		
11 17	6 46.19	+ 9 51.2	1.381	2.168	19.9	19.6	11 17	6 52.18	+24 55.5	2.232	2.994	14.0	20.4
11 27	6 44.33	+10 19.6	1.296	2.160	16.4	19.3	11 27	6 47.75	+25 7.6	2.136	2.992	11.2	20.2
12 7	6 39.25	+11 8.3	1.230	2.153	12.1	19.0	12 7	6 40.85	+25 20.7	2.063	2.989	7.8	20.0
12 17	6 31.45	+12 18.2	1.186	2.148	7.5	18.8	12 17	6 31.98	+25 32.6	2.016	2.985	4.0	19.8
12 27	6 21.98	+13 46.9	1.167	2.143	4.4	18.6	12 27	6 22.02	+25 41.2	1.999	2.982	0.8	19.5
1 6	6 12.35	+15 28.3	1.175	2.140	6.8	18.7	1 6	6 12.05	+25 45.3	2.012	2.978	4.3	19.8
1 16	6 4.07	+17 15.2	1.209	2.139	11.4	19.0	1 16	6 3.14	+25 44.7	2.054	2.974	8.1	20.0
1 26	5 58.46	+19 0.6	1.266	2.138	15.9	19.2	1 26	5 56.20	+25 40.8	2.122	2.969	11.5	20.2
<b>44248</b>	1998 <i>QT</i> <sub>41</sub>		12 26.7 117°64	2°2/26.6 18			<b>261424</b>	2005 <i>UW</i> <sub>509</sub>		12 26.7 323°88	0°1/26.7 17		
11 17	6 55.53	+28 37.2	2.046	2.808	15.1	19.6	11 17	6 50.34	+22 50.9	2.067	2.837	14.7	21.3
11 27	6 50.52	+28 58.2	1.968	2.822	12.0	19.4	11 27	6 46.43	+22 52.3	1.976	2.836	11.7	21.1
12 7	6 42.77	+29 17.9	1.911	2.835	8.5	19.3	12 7	6 39.99	+22 55.6	1.907	2.835	8.2	20.8
12 17	6 32.89	+29 32.5	1.882	2.848	4.6	19.0	12 17	6 31.56	+22 59.5	1.864	2.834	4.2	20.6
12 27	6 21.95	+29 39.3	1.881	2.860	2.2	18.9	12 27	6 22.05	+23 2.4	1.850	2.833	0.2	20.2
1 6	6 11.20	+29 36.8	1.910	2.872	4.9	19.1	1 6	6 12.56	+23 3.5	1.865	2.832	4.4	20.6
1 16	6 1.81	+29 26.1	1.967	2.884	8.6	19.4	1 16	6 4.19	+23 2.7	1.908	2.831	8.4	20.8
1 26	5 54.72	+29 9.5	2.051	2.895	11.9	19.6	1 26	5 57.86	+23 0.9	1.977	2.830	11.9	21.1
<b>341951</b>	2008 <i>PK</i> <sub>5</sub>		12 26.7 70°14	4°3/27.1 18			<b>324350</b>	2006 <i>QZ</i> <sub>33</sub>		12 26.7 141°32	1°6/26.6 18		
11 17	6 53.10	+13 49.7	1.525	2.299	18.9	20.4	11 17	6 58.53	+25 37.8	1.741	2.508	17.2	21.5
11 27	6 49.04	+13 19.4	1.459	2.316	15.3	20.2	11 27	6 53.44	+26 6.2	1.662	2.520	13.7	21.3
12 7	6 41.94	+12 58.7	1.413	2.333	11.1	20.0	12 7	6 45.12	+26 36.5	1.604	2.530	9.6	21.1
12 17	6 32.52	+12 49.1	1.391	2.351	6.8	19.8	12 17	6 34.23	+27 4.5	1.571	2.540	5.0	20.8
12 27	6 21.97	+12 51.1	1.395	2.368	4.3	19.7	12 27	6 21.98	+27 26.3	1.567	2.549	1.6	20.6
1 6	6 11.72	+13 4.0	1.426	2.386	6.6	19.9	1 6	6 9.86	+27 39.4	1.592	2.557	5.4	20.9
1 16	6 3.05	+13 26.0	1.484	2.403	10.6	20.1	1 16	5 59.31	+27 43.9	1.645	2.565	9.8	21.2
1 26	5 56.95	+13 55.0	1.566	2.421	14.4	20.4	1 26	5 51.48	+27 42.1	1.724	2.572	13.6	21.4
<b>168249</b>	2006 <i>KF</i> <sub>105</sub>		12 26.7 103°72	7°9/27.7 18			<b>300650</b>	2007 <i>UW</i> <sub>84</sub>		12 26.7 315°81	1°3/26.8		

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>142651</b>	2002 <i>TR</i> <sub>192</sub>	12 26.7 163°31'		0°8/26.7 18			<b>109985</b>	2001 <i>SG</i> <sub>57</sub>	12 26.7 23°55'		5°7/27.5 18		
11 17	6 54.23	+22 34.1	2.321	3.075	13.8	20.3	11 17	6 47.47	+10 7.9	1.540	2.317	18.6	19.2
11 27	6 49.02	+22 8.4	2.230	3.080	11.0	20.1	11 27	6 44.68	+9 38.3	1.471	2.326	15.3	19.0
12 7	6 41.51	+21 42.8	2.161	3.084	7.6	19.9	12 7	6 39.02	+9 21.6	1.420	2.335	11.5	18.8
12 17	6 32.23	+21 16.6	2.120	3.088	3.9	19.6	12 17	6 31.15	+9 20.4	1.392	2.345	7.7	18.6
12 27	6 22.05	+20 49.9	2.109	3.092	0.8	19.4	12 27	6 22.12	+9 35.7	1.389	2.356	5.7	18.5
1 6	6 12.01	+20 23.1	2.129	3.095	4.1	19.7	1 6	6 13.24	+10 6.2	1.413	2.368	7.4	18.7
1 16	6 3.07	+19 57.5	2.179	3.097	7.8	19.9	1 16	6 5.74	+10 49.0	1.462	2.380	10.9	18.9
1 26	5 56.03	+19 34.4	2.256	3.099	11.0	20.1	1 26	6 0.60	+11 40.4	1.535	2.393	14.5	19.1
<b>228292</b>	2000 <i>DS</i> <sub>10</sub>	12 26.7 356°33'		0°3/26.8 17			<b>311757</b>	2006 <i>TK</i> <sub>86</sub>	12 26.7 52°55'		3°0/26.8 18		
11 17	6 46.11	+22 14.4	1.596	2.392	17.3	20.2	11 17	6 51.84	+17 51.2	1.691	2.467	17.3	20.1
11 27	6 43.88	+22 14.9	1.513	2.387	13.8	20.0	11 27	6 47.78	+17 10.6	1.623	2.483	13.8	19.9
12 7	6 38.66	+22 18.8	1.449	2.383	9.6	19.7	12 7	6 40.94	+16 34.4	1.575	2.500	9.8	19.7
12 17	6 31.04	+22 24.7	1.409	2.381	4.9	19.4	12 17	6 32.01	+16 3.8	1.552	2.517	5.6	19.5
12 27	6 22.08	+22 30.9	1.396	2.379	0.4	19.1	12 27	6 22.10	+15 39.8	1.556	2.534	3.0	19.4
1 6	6 13.15	+22 36.3	1.409	2.378	5.2	19.5	1 6	6 12.48	+15 23.0	1.589	2.552	5.7	19.6
1 16	6 5.57	+22 40.5	1.449	2.379	9.9	19.7	1 16	6 4.32	+15 13.8	1.649	2.570	9.7	19.9
1 26	6 0.45	+22 44.1	1.512	2.381	14.0	20.0	1 26	5 58.52	+15 11.7	1.733	2.587	13.3	20.1
<b>70607</b>	1999 <i>TU</i> <sub>195</sub>	12 26.7 294°71'		0°3/26.7 18			<b>362741</b>	2011 <i>UD</i> <sub>314</sub>	12 26.7 295°92'		6°8/26.7 17		
11 17	6 52.52	+24 33.3	1.725	2.505	16.8	18.7	11 17	6 49.14	+8 58.2	1.811	2.569	16.9	21.3
11 27	6 48.90	+24 8.1	1.623	2.488	13.6	18.4	11 27	6 45.74	+7 52.7	1.717	2.557	14.2	21.1
12 7	6 42.17	+23 41.4	1.542	2.472	9.6	18.1	12 7	6 39.71	+6 55.6	1.643	2.546	11.0	20.9
12 17	6 32.86	+23 11.8	1.485	2.455	4.9	17.8	12 17	6 31.53	+6 11.0	1.593	2.536	8.1	20.7
12 27	6 22.04	+22 38.9	1.455	2.439	0.3	17.4	12 27	6 22.11	+5 42.6	1.570	2.525	6.8	20.6
1 6	6 11.12	+22 3.3	1.454	2.422	5.3	17.8	1 6	6 12.62	+5 32.1	1.574	2.514	8.3	20.7
1 16	6 1.53	+21 27.1	1.481	2.406	10.1	18.0	1 16	6 4.22	+5 39.5	1.603	2.504	11.4	20.8
1 26	5 54.46	+20 53.2	1.532	2.390	14.5	18.2	1 26	5 57.92	+6 2.6	1.657	2.493	14.7	21.0
<b>391072</b>	2005 <i>UP</i> <sub>111</sub>	12 26.7 2°03'		5°3/25.9 18			<b>398038</b>	2009 <i>DD</i> <sub>139</sub>	12 26.7 156°32'		4°9/27.4 18		
11 17	6 53.54	+31 14.2	1.389	2.184	19.4	21.0	11 17	6 50.72	+7 44.5	2.456	3.183	13.8	22.3
11 27	6 50.78	+32 21.8	1.312	2.183	15.8	20.7	11 27	6 46.04	+7 18.5	2.369	3.191	11.4	22.1
12 7	6 44.09	+33 29.8	1.255	2.182	11.5	20.5	12 7	6 39.36	+7 2.2	2.304	3.198	8.7	21.9
12 17	6 34.03	+34 30.4	1.220	2.182	7.3	20.3	12 17	6 31.15	+6 57.1	2.265	3.205	6.2	21.8
12 27	6 22.00	+35 15.3	1.211	2.183	5.3	20.2	12 27	6 22.13	+7 4.2	2.255	3.211	4.9	21.7
1 6	6 9.93	+35 39.5	1.228	2.184	8.1	20.3	1 6	6 13.17	+7 23.2	2.275	3.216	6.0	21.8
1 16	5 59.75	+35 42.9	1.270	2.186	12.4	20.6	1 16	6 5.08	+7 52.6	2.323	3.221	8.4	22.0
1 26	5 52.96	+35 30.2	1.334	2.188	16.5	20.8	1 26	5 58.60	+8 30.3	2.399	3.225	11.0	22.1
<b>449131</b>	2013 <i>AV</i> <sub>29</sub>	12 26.7 267°96'		5°3/26.3 17			<b>414640</b>	2009 <i>VZ</i> <sub>61</sub>	12 26.7 7°54'		4°0/26.7 17		
11 17	6 56.46	+35 41.7	1.919	2.681	16.0	20.7	11 17	6 48.64	+14 56.8	2.013	2.778	15.2	21.0
11 27	6 52.23	+36 21.9	1.817	2.665	13.2	20.5	11 27	6 44.95	+14 3.8	1.927	2.778	12.4	20.8
12 7	6 44.64	+36 57.7	1.735	2.648	9.9	20.3	12 7	6 38.89	+13 15.3	1.862	2.779	9.1	20.6
12 17	6 34.18	+37 22.8	1.678	2.630	6.8	20.0	12 17	6 30.99	+12 33.4	1.822	2.781	5.7	20.4
12 27	6 22.00	+37 31.3	1.648	2.613	5.3	19.9	12 27	6 22.14	+11 59.9	1.811	2.782	4.0	20.3
1 6	6 9.63	+37 20.5	1.647	2.595	7.2	20.0	1 6	6 13.38	+11 36.3	1.829	2.784	5.9	20.4
1 16	5 58.67	+36 51.4	1.673	2.577	10.7	20.1	1 16	6 5.70	+11 23.0	1.874	2.786	9.2	20.6
1 26	5 50.47	+36 8.8	1.723	2.559	14.2	20.3	1 26	5 59.96	+11 19.6	1.944	2.789	12.5	20.8
<b>249882</b>	2001 <i>QP</i> <sub>271</sub>	12 26.7 102°36'		5°4/26.6 18			<b>223137</b>	2002 <i>VW</i> <sub>102</sub>	12 26.7 330°25'		5°1/26.2 18		
11 17	6 58.30	+37 55.6	2.070	2.820	15.3	20.8	11 17	6 54.17	+31 44.5	1.400	2.193	19.4	20.2
11 27	6 53.02	+38 34.2	1.996	2.835	12.6	20.6	11 27	6 51.32	+32 36.0	1.318	2.188	15.8	20.0
12 7	6 44.66	+39 5.5	1.944	2.849	9.5	20.4	12 7	6 44.50	+33 26.4	1.255	2.182	11.6	19.7
12 17	6 33.92	+39 23.6	1.918	2.863	6.7	20.3	12 17	6 34.28	+34 8.6	1.215	2.177	7.2	19.4
12 27	6 22.02	+39 24.1	1.919	2.877	5.4	20.3	12 27	6 22.04	+34 35.1	1.200	2.173	5.1	19.3
1 6	6 10.39	+39 5.9	1.949	2.891	6.9	20.4	1 6	6 9.73	+34 41.7	1.211	2.169	7.9	19.5
1 16	6 0.37	+38 31.5	2.007	2.904	9.6	20.6	1 16	5 59.30	+34 29.4	1.247	2.165	12.3	19.7
1 26	5 52.98	+37 45.6	2.090	2.917	12.4	20.8	1 26	5 52.28	+34 3.1	1.305	2.162	16.6	19.9
<b>1137</b>	Raiissa	12 26.7 85°83'		0°8/26.6 18 R			<b>74240</b>	1998 <i>SY</i> <sub>52</sub>	12 26.7 35°88'		8°9/27.2 18		
11 17	6 54.56	+23 33.2	1.618	2.398	17.8	14.5	11 17	6 49.14	+5 45.6	1.521	2.284	19.4	18.8
11 27	6 50.45	+23 59.1	1.543	2.408	14.1	14.3	11 27	6 45.89	+4 19.8	1.458	2.296	16.4	18.6
12 7	6 43.14	+24 28.8	1.489	2.419	9.8	14.0	12 7	6 39.78	+3 8.0	1.413	2.309	13.1	18.4
12 17	6 33.26	+24 58.9	1.459	2.430	5.0	13.8	12 17	6 31.49	+2 15.9	1.391	2.322	10.2	18.3
12 27	6 22.04	+25 25.6	1.457	2.440	0.9	13.5	12 27	6 22.13	+1 48.0	1.393	2.336	8.9	18.3
1 6	6 10.96	+25 46.4	1.483	2.451	5.3	13.8	1 6	6 13.01	+1 45.5	1.421	2.351	10.0	18.4
1 16	6 1.46	+26 0.6	1.537	2.461	9.9	14.1	1 16	6 5.32	+2 6.5	1.473	2.366	12.7	18.6
1 26	5 54.65	+26 9.4	1.615	2.471	14.0	14.4	1 26	6 0.02	+2 46.3	1.547	2.381	15.7	18.8
<b>137256</b>	1999 <i>RS</i> <sub>87</sub>	12 26.7 23°90'		3°7/26.5 18			<b>372059</b>	2008 <i>RR</i> <sub>110</sub>	12 26.7 26°05'		4°7/27.3 17		
11 17	6 51.31	+28 44.1	1.034	1.857	22.8	19.2	11 17	6 46.91	+10 5.9	2.118	2.872	14.9	21.3
11 27	6 49.62	+29 18.5	0.978	1.866	18.3	19.0	11 27	6 43.45	+9 39.2	2.035	2.876	12.2	21.1
12 7	6 43.46	+29 52.2	0.939	1.877	13.0	18.7	12 7	6 37.78	+9 22.1	1.973	2.880	9.2	20.9
12 17	6 33.67	+30 18.7	0.920	1.890	7.2	18.4	12 17	6 30.42	+9 16.2	1.935	2.885	6.3	20.7
12 27	6 22.03	+30 31.7	0.924	1.904	3.7	18.3	12 27	6 22.16	+9 22.5	1.926	2.890	4.7	20.6
1 6	6 10.82	+30 28.7	0.952	1.919	7.6	18.6	1 6	6 13.96	+9 40.5	1.945	2.895	6.1	20.7
1 16	6 2.09	+30 12.0	1.003	1.935	12.9	18.9	1 16	6 6.73	+10 8.8	1.991	2.901	8.9	20.9
1 26	5 57.20	+29 46.7	1.074	1.952	17.7	19.2	1 26	6 1.27	+10 45.0	2.064	2.907	11.9	21.1
<b>430184</b>	2013 <i>TG</i> <sub>109</sub>	12 26.7 115°82'		1°7/26.6 18			<b>523764</b>	2014 <i>WC</i> <sub>510</sub>	12 26.7 343°93'		0°6/27.5 18		
11 17	6 58.96	+25 55.9	1.574	2.349	18.4	21.9							

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>437999</b>	2003 <i>UH</i> <sub>132</sub>		12 26.7 62°50	2.8/26.7	17		<b>185149</b>	2006 <i>SX</i> <sub>160</sub>		12 26.8 16°25	0.9/26.8	18	
11 17	6 54.86	+19 15.7	1.604	2.379	18.1	20.8	11 17	6 50.99	+20 35.7	1.212	2.019	21.0	20.5
11 27	6 50.22	+18 26.6	1.540	2.401	14.4	20.7	11 27	6 48.64	+20 41.7	1.142	2.022	16.9	20.2
12 7	6 42.63	+17 40.6	1.497	2.423	10.1	20.5	12 7	6 42.49	+20 54.8	1.089	2.025	11.8	19.9
12 17	6 32.85	+16 58.9	1.479	2.445	5.6	20.2	12 17	6 33.19	+21 13.2	1.057	2.029	6.1	19.6
12 27	6 22.10	+16 22.7	1.488	2.468	2.8	20.1	12 27	6 22.15	+21 34.1	1.051	2.034	0.9	19.3
1 6	6 11.79	+15 53.6	1.526	2.490	5.8	20.4	1 6	6 11.24	+21 54.7	1.069	2.039	6.3	19.7
1 16	6 3.12	+15 32.4	1.591	2.512	9.9	20.7	1 16	6 2.22	+22 13.7	1.112	2.046	11.9	20.0
1 26	5 57.00	+15 19.5	1.681	2.534	13.7	20.9	1 26	5 56.45	+22 31.1	1.177	2.052	16.7	20.3
<b>271609</b>	2004 <i>PM</i> <sub>18</sub>		12 26.7 171°36	1.3/26.9	18		<b>238321</b>	2003 <i>YP</i> <sub>140</sub>		12 26.8 102°58	5.5/25.9	18	
11 17	6 54.86	+19 32.2	2.137	2.891	14.8	21.3	11 17	6 59.49	+35 51.0	2.026	2.778	15.5	19.9
11 27	6 49.81	+19 26.9	2.046	2.895	11.8	21.1	11 27	6 54.10	+37 1.2	1.958	2.798	12.7	19.7
12 7	6 42.26	+19 25.3	1.977	2.899	8.3	20.9	12 7	6 45.55	+38 6.7	1.911	2.818	9.5	19.6
12 17	6 32.72	+19 26.7	1.934	2.902	4.4	20.6	12 17	6 34.50	+39 0.7	1.891	2.837	6.7	19.5
12 27	6 22.13	+19 30.0	1.922	2.904	1.3	20.4	12 27	6 22.13	+39 37.2	1.898	2.856	5.5	19.4
1 6	6 11.58	+19 34.4	1.940	2.905	4.5	20.6	1 6	6 9.93	+39 53.5	1.935	2.874	7.1	19.5
1 16	6 2.16	+19 39.8	1.987	2.906	8.4	20.9	1 16	5 59.30	+39 50.7	2.000	2.892	9.9	19.8
1 26	5 54.78	+19 46.3	2.061	2.905	11.9	21.1	1 26	5 51.34	+39 33.3	2.089	2.909	12.7	20.0
<b>143656</b>	2003 <i>SJ</i> <sub>39</sub>		12 26.7 170°75	1.6/26.6	18		<b>299601</b>	2006 <i>HL</i> <sub>69</sub>		12 26.8 122°78	1.3/26.9	18	
11 17	6 54.37	+27 1.9	1.910	2.679	15.8	20.8	11 17	6 53.90	+19 19.9	2.126	2.883	14.8	21.2
11 27	6 49.96	+27 15.8	1.822	2.681	12.6	20.6	11 27	6 48.94	+19 14.5	2.047	2.898	11.8	21.0
12 7	6 42.65	+27 29.5	1.756	2.682	8.9	20.4	12 7	6 41.55	+19 13.0	1.990	2.913	8.2	20.8
12 17	6 33.02	+27 39.7	1.715	2.683	4.7	20.1	12 17	6 32.33	+19 14.7	1.960	2.927	4.4	20.6
12 27	6 22.13	+27 43.7	1.702	2.684	1.6	19.9	12 27	6 22.19	+19 18.6	1.959	2.941	1.3	20.4
1 6	6 11.29	+27 40.0	1.719	2.684	5.0	20.1	1 6	6 12.21	+19 23.9	1.989	2.954	4.4	20.6
1 16	6 1.80	+27 29.3	1.764	2.685	9.1	20.4	1 16	6 3.42	+19 30.4	2.048	2.967	8.1	20.9
1 26	5 54.70	+27 14.0	1.834	2.685	12.8	20.6	1 26	5 56.63	+19 38.0	2.133	2.980	11.4	21.1
<b>295568</b>	2008 <i>SJ</i> <sub>91</sub>		12 26.7 142°83	3.8/26.3	18		<b>384363</b>	2009 <i>US</i> <sub>85</sub>		12 26.8 30°36	0.6/26.7	18	
11 17	6 52.75	+34 40.1	2.528	3.280	12.8	20.8	11 17	6 51.53	+23 0.2	1.177	1.987	21.4	20.6
11 27	6 48.10	+35 15.3	2.441	3.283	10.4	20.7	11 27	6 49.09	+23 20.8	1.116	1.998	17.0	20.3
12 7	6 41.05	+35 46.3	2.376	3.287	7.7	20.5	12 7	6 42.75	+23 46.6	1.073	2.010	11.8	20.1
12 17	6 32.10	+36 9.1	2.338	3.291	5.1	20.4	12 17	6 33.26	+24 14.1	1.051	2.023	6.0	19.8
12 27	6 22.15	+36 20.5	2.329	3.294	3.9	20.3	12 27	6 22.16	+24 39.0	1.054	2.037	0.7	19.5
1 6	6 12.26	+36 19.1	2.349	3.297	5.4	20.4	1 6	6 11.37	+24 58.3	1.082	2.052	6.2	19.9
1 16	6 3.45	+36 5.4	2.399	3.301	8.0	20.6	1 16	6 2.63	+25 11.4	1.135	2.067	11.7	20.3
1 26	5 56.59	+35 42.3	2.475	3.303	10.7	20.7	1 26	5 57.24	+25 19.6	1.209	2.084	16.4	20.6
<b>470205</b>	2006 <i>VZ</i> <sub>110</sub>		12 26.8 53°60	1.2/26.7	18		<b>111437</b>	2001 <i>XV</i> <sub>222</sub>		12 26.8 268°70	0.1/26.8	17	
11 17	6 58.37	+25 57.7	1.185	1.985	21.9	20.5	11 17	6 51.32	+23 42.4	2.023	2.793	15.0	20.4
11 27	6 54.15	+25 59.5	1.136	2.012	17.3	20.3	11 27	6 47.31	+23 42.0	1.932	2.792	12.0	20.2
12 7	6 45.90	+26 1.3	1.105	2.040	12.0	20.1	12 7	6 40.70	+23 42.9	1.863	2.790	8.3	20.0
12 17	6 34.63	+25 59.5	1.097	2.068	6.1	19.9	12 17	6 32.01	+23 43.4	1.819	2.789	4.2	19.7
12 27	6 22.10	+25 51.1	1.113	2.096	1.2	19.6	12 27	6 22.20	+23 42.0	1.804	2.788	0.2	19.4
1 6	6 10.30	+25 36.0	1.156	2.125	6.2	20.0	1 6	6 12.42	+23 38.0	1.819	2.786	4.5	19.7
1 16	6 0.90	+25 16.2	1.224	2.153	11.4	20.4	1 16	6 3.81	+23 31.6	1.862	2.785	8.6	20.0
1 26	5 54.98	+24 55.3	1.314	2.182	15.8	20.7	1 26	5 57.31	+23 24.0	1.931	2.784	12.2	20.2
<b>137351</b>	1999 <i>TO</i> <sub>100</sub>		12 26.8 62°61	1.5/26.9	18		<b>139292</b>	2001 <i>KS</i> <sub>3</sub>		12 26.8 197°63	4.2/26.8	18	
11 17	6 55.17	+18 44.3	1.306	2.097	20.6	19.6	11 17	6 51.65	+12 44.6	2.231	2.977	14.5	20.6
11 27	6 51.35	+18 54.1	1.246	2.117	16.5	19.4	11 27	6 47.12	+11 59.4	2.136	2.975	11.8	20.4
12 7	6 43.94	+19 12.5	1.205	2.136	11.5	19.2	12 7	6 40.32	+11 19.9	2.063	2.972	8.8	20.2
12 17	6 33.72	+19 37.5	1.186	2.156	6.0	18.9	12 17	6 31.74	+10 48.0	2.017	2.969	5.8	20.0
12 27	6 22.13	+20 6.2	1.193	2.176	1.5	18.7	12 27	6 22.21	+10 25.3	1.999	2.965	4.2	19.9
1 6	6 10.90	+20 35.6	1.227	2.196	5.9	19.0	1 6	6 12.69	+10 12.6	2.011	2.961	5.9	20.0
1 16	6 1.61	+21 3.8	1.287	2.216	11.0	19.4	1 16	6 4.14	+10 10.1	2.051	2.957	8.9	20.2
1 26	5 55.39	+21 30.4	1.370	2.236	15.4	19.7	1 26	5 57.39	+10 16.9	2.118	2.952	12.0	20.4
<b>251473</b>	2008 <i>DT</i> <sub>30</sub>		12 26.8 174°86	1.4/26.6	18		<b>347365</b>	2012 <i>RK</i> <sub>3</sub>		12 26.8 177°31	2.3/27.1	18	
11 17	6 53.06	+26 50.1	2.104	2.869	14.6	21.4	11 17	6 54.74	+16 12.7	2.002	2.756	15.6	21.6
11 27	6 48.63	+27 2.2	2.014	2.870	11.7	21.2	11 27	6 49.93	+16 12.6	1.910	2.758	12.6	21.4
12 7	6 41.57	+27 13.9	1.946	2.871	8.2	21.0	12 7	6 42.48	+16 19.7	1.841	2.760	9.0	21.1
12 17	6 32.43	+27 22.6	1.904	2.872	4.3	20.8	12 17	6 32.92	+16 33.4	1.797	2.761	5.1	20.9
12 27	6 22.16	+27 25.8	1.891	2.872	1.4	20.6	12 27	6 22.18	+16 52.9	1.782	2.761	2.3	20.7
1 6	6 11.94	+27 22.5	1.907	2.872	4.6	20.8	1 6	6 11.44	+17 16.4	1.797	2.761	5.0	20.9
1 16	6 2.91	+27 13.1	1.953	2.872	8.4	21.0	1 16	6 1.84	+17 42.7	1.842	2.760	9.0	21.1
1 26	5 56.03	+26 59.5	2.024	2.872	11.9	21.2	1 26	5 54.35	+18 10.8	1.912	2.758	12.6	21.4
<b>115450</b>	2003 <i>TK</i> <sub>10</sub>		12 26.8 192°29	2.8/26.8	18		<b>282119</b>	2001 <i>BN</i> <sub>57</sub>		12 26.8 49°87	8.4/28.4	18	
11 17	6 58.60	+32 36.0	2.216	2.966	14.4	20.1	11 17	6 50.76	+ 3 58.9	1.458	2.215	20.4	19.4
11 27	6 52.95	+32 35.2	2.120	2.965	11.7	19.9	11 27	6 47.23	+ 3 15.8	1.401	2.235	17.1	19.2
12 7	6 44.50	+32 28.9	2.046	2.962	8.4	19.7	12 7	6 40.74	+ 2 51.7	1.361	2.256	13.5	19.0
12 17	6 33.89	+32 13.5	1.998	2.960	4.9	19.5	12 17	6 32.01	+ 2 50.8	1.344	2.278	10.2	18.9
12 27	6 22.13	+31 46.7	1.980	2.957	2.8	19.3	12 27	6 22.21	+ 3 14.8	1.351	2.299	8.4	18.8
1 6	6 10.52	+31 8.4	1.993	2.953	5.1	19.5	1 6	6 12.71	+ 4 1.7	1.383	2.321	9.4	19.0
1 16	6 0.25	+30 21.0	2.036	2.948	8.6	19.7	1 16	6 4.76	+ 5 6.8	1.441	2.343	12.2	19.2
1 26	5 52.30	+29 28.5	2.105	2.943	11.9	19.9	1 26	5 59.30	+ 6 23.8	1.521	2.366	15.3	19.4
<b>380963</b>	2006 <i>QV</i> <sub>59</sub>		12 26.8 153°17	3.4/27.0	16		<b>301268</b>	2009 <i>BK</i> <sub>83</sub>					

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>212994</b>	6598 <i>P-L</i>		12 26.8	96°49	3°7/26.4	18	<b>161571</b>	2005 <i>CB<sub>6</sub></i>		12 26.8	121°30	6°3/28.2	18
11 17	6 57.22	+32 54.4	2.146	2.901	14.7	20.8	11 17	6 47.21	+1 25.3	2.633	3.341	13.4	20.0
11 27	6 51.83	+33 32.6	2.077	2.923	11.8	20.6	11 27	6 43.18	+1 1.9	2.549	3.348	11.4	19.9
12 7	6 43.68	+34 6.9	2.030	2.945	8.6	20.5	12 7	6 37.36	+0 51.3	2.486	3.355	9.2	19.7
12 17	6 33.43	+34 32.6	2.010	2.967	5.3	20.3	12 17	6 30.19	+0 55.6	2.448	3.362	7.3	19.6
12 27	6 22.18	+34 45.8	2.019	2.989	3.7	20.3	12 27	6 22.31	+1 16.1	2.438	3.369	6.3	19.6
1 6	6 11.19	+34 45.2	2.057	3.010	5.6	20.4	1 6	6 14.47	+1 51.9	2.456	3.376	6.9	19.6
1 16	6 1.62	+34 32.2	2.124	3.030	8.7	20.6	1 16	6 7.40	+2 41.2	2.503	3.383	8.7	19.7
1 26	5 54.40	+34 10.0	2.217	3.050	11.6	20.9	1 26	6 1.74	+3 40.8	2.575	3.389	10.8	19.9
<b>10093</b>	Diesel		12 26.8	166°17	3°1/27.2	18	<b>279693</b>	2011 <i>FD<sub>44</sub></i>		12 26.8	152°38	1°8/26.6	18
11 17	6 53.31	+14 33.6	1.872	2.632	16.4	18.9	11 17	6 50.56	+28 57.7	2.823	3.575	11.6	21.3
11 27	6 48.94	+14 26.2	1.786	2.635	13.3	18.7	11 27	6 45.96	+29 17.1	2.732	3.580	9.2	21.2
12 7	6 41.86	+14 27.3	1.720	2.638	9.6	18.5	12 7	6 39.35	+29 35.2	2.665	3.585	6.5	21.0
12 17	6 32.63	+14 37.1	1.679	2.640	5.7	18.3	12 17	6 31.22	+29 49.4	2.625	3.590	3.6	20.8
12 27	6 22.20	+14 55.2	1.666	2.643	3.1	18.1	12 27	6 22.29	+29 57.9	2.616	3.594	1.8	20.7
1 6	6 11.79	+15 20.0	1.682	2.644	5.5	18.3	1 6	6 13.40	+29 59.6	2.637	3.598	3.9	20.8
1 16	6 2.58	+15 50.1	1.727	2.645	9.5	18.5	1 16	6 5.38	+29 54.8	2.689	3.602	6.7	21.0
1 26	5 55.57	+16 23.6	1.797	2.646	13.1	18.8	1 26	5 58.95	+29 44.8	2.768	3.606	9.4	21.2
<b>343311</b>	2010 <i>BM<sub>6</sub></i>		12 26.8	289°34	0°8/26.8	18	<b>147008</b>	2002 <i>PU<sub>127</sub></i>		12 26.8	114°43	0°8/26.7	18
11 17	6 51.65	+20 46.5	1.609	2.393	17.7	21.1	11 17	6 58.32	+23 54.6	1.710	2.478	17.4	21.3
11 27	6 48.48	+20 49.1	1.512	2.379	14.3	20.8	11 27	6 53.18	+24 15.4	1.638	2.496	13.8	21.1
12 7	6 42.09	+20 56.8	1.434	2.365	10.1	20.5	12 7	6 44.90	+24 38.9	1.587	2.514	9.6	20.8
12 17	6 32.98	+21 8.4	1.381	2.351	5.3	20.2	12 17	6 34.18	+25 1.6	1.561	2.531	4.9	20.6
12 27	6 22.20	+21 21.9	1.354	2.337	0.8	19.8	12 27	6 22.22	+25 20.4	1.564	2.547	0.8	20.3
1 6	6 11.22	+21 35.4	1.354	2.323	5.5	20.1	1 6	6 10.50	+25 33.0	1.596	2.563	5.1	20.7
1 16	6 1.55	+21 48.1	1.382	2.309	10.6	20.4	1 16	6 0.40	+25 39.5	1.656	2.578	9.6	21.0
1 26	5 54.49	+22 0.2	1.433	2.296	15.0	20.6	1 26	5 52.97	+25 41.7	1.742	2.592	13.4	21.2
<b>270788</b>	2002 <i>RP<sub>219</sub></i>		12 26.8	84°29	4°9/27.8	18	<b>126211</b>	2002 <i>AD<sub>43</sub></i>		12 26.8	234°90	1°8/26.9	18
11 17	6 48.07	+7 2.2	2.406	3.139	13.9	20.9	11 17	6 52.48	+18 10.9	1.808	2.578	16.5	20.6
11 27	6 43.99	+6 46.5	2.328	3.153	11.5	20.7	11 27	6 48.58	+18 10.3	1.715	2.573	13.3	20.4
12 7	6 37.97	+6 41.6	2.272	3.168	8.8	20.6	12 7	6 41.82	+18 16.0	1.642	2.567	9.5	20.1
12 17	6 30.49	+6 49.0	2.242	3.182	6.3	20.4	12 17	6 32.71	+18 27.5	1.593	2.561	5.1	19.9
12 27	6 22.27	+7 9.2	2.240	3.196	4.9	20.4	12 27	6 22.25	+18 43.3	1.573	2.554	1.8	19.6
1 6	6 14.16	+7 41.1	2.267	3.210	5.9	20.5	1 6	6 11.70	+19 2.2	1.581	2.548	5.2	19.9
1 16	6 6.93	+8 22.7	2.323	3.224	8.3	20.6	1 16	6 2.36	+19 22.7	1.618	2.541	9.6	20.1
1 26	6 1.27	+9 11.4	2.405	3.238	10.8	20.8	1 26	5 55.31	+19 44.4	1.679	2.534	13.6	20.3
<b>414951</b>	2011 <i>BF<sub>98</sub></i>		12 26.8	109°50	0°5/26.9	17	<b>332625</b>	2008 <i>TC<sub>113</sub></i>		12 26.8	121°31	3°7/27.1	17
11 17	6 50.16	+19 44.2	2.315	3.075	13.6	21.1	11 17	6 47.74	+12 4.2	2.464	3.211	13.2	21.3
11 27	6 45.97	+20 7.0	2.228	3.081	10.8	21.0	11 27	6 43.80	+11 38.1	2.375	3.214	10.8	21.1
12 7	6 39.54	+20 34.8	2.163	3.088	7.6	20.8	12 7	6 37.89	+11 18.8	2.308	3.217	8.0	20.9
12 17	6 31.37	+21 6.0	2.125	3.094	3.9	20.5	12 17	6 30.50	+11 7.6	2.267	3.220	5.2	20.7
12 27	6 22.25	+21 38.5	2.117	3.100	0.5	20.3	12 27	6 22.31	+11 5.2	2.256	3.223	3.7	20.7
1 6	6 13.15	+22 10.4	2.140	3.107	4.0	20.6	1 6	6 14.16	+11 11.4	2.274	3.226	5.1	20.8
1 16	6 5.01	+22 40.2	2.191	3.113	7.6	20.8	1 16	6 6.86	+11 25.6	2.320	3.229	7.9	20.9
1 26	5 58.65	+23 7.5	2.270	3.119	10.8	21.0	1 26	6 1.11	+11 46.5	2.394	3.232	10.6	21.1
<b>355411</b>	2007 <i>UB<sub>94</sub></i>		12 26.8	200°07	3°2/26.4	18	<b>256391</b>	2006 <i>YA<sub>45</sub></i>		12 26.8	123°75	0°7/26.9	18
11 17	6 55.16	+30 21.5	2.078	2.840	14.9	21.3	11 17	6 51.58	+20 23.4	2.134	2.897	14.5	20.7
11 27	6 50.59	+31 0.1	1.985	2.838	12.0	21.1	11 27	6 47.27	+20 33.5	2.049	2.904	11.6	20.5
12 7	6 43.14	+31 37.7	1.915	2.835	8.6	20.9	12 7	6 40.54	+20 47.7	1.986	2.911	8.1	20.3
12 17	6 33.34	+32 9.8	1.870	2.832	5.1	20.6	12 17	6 31.91	+21 4.7	1.949	2.918	4.2	20.0
12 27	6 22.21	+32 32.0	1.854	2.829	3.2	20.5	12 27	6 22.28	+21 22.7	1.942	2.925	0.7	19.8
1 6	6 11.03	+32 42.0	1.867	2.825	5.5	20.7	1 6	6 12.70	+21 40.4	1.964	2.931	4.2	20.1
1 16	6 1.09	+32 39.9	1.909	2.821	9.1	20.9	1 16	6 4.22	+21 56.8	2.015	2.937	8.1	20.3
1 26	5 53.46	+32 28.3	1.977	2.817	12.5	21.1	1 26	5 57.69	+22 11.9	2.093	2.943	11.5	20.6
<b>97461</b>	2000 <i>CZ<sub>19</sub></i>		12 26.8	69°73	0°0/26.8	18	<b>158549</b>	2002 <i>GO<sub>161</sub></i>		12 26.8	185°83	0°5/26.8	18
11 17	6 51.92	+24 43.2	2.170	2.935	14.3	18.7	11 17	6 50.09	+21 11.0	2.624	3.377	12.3	21.1
11 27	6 47.37	+24 25.8	2.093	2.949	11.3	18.6	11 27	6 45.66	+21 16.8	2.527	3.377	9.8	20.9
12 7	6 40.46	+24 7.8	2.037	2.963	7.8	18.4	12 7	6 39.21	+21 25.2	2.453	3.377	6.9	20.7
12 17	6 31.78	+23 48.1	2.008	2.978	4.0	18.1	12 17	6 31.19	+21 35.2	2.407	3.376	3.5	20.5
12 27	6 22.26	+23 26.3	2.008	2.992	0.1	17.8	12 27	6 22.31	+21 45.4	2.391	3.375	0.5	20.2
1 6	6 12.97	+23 2.5	2.039	3.006	4.1	18.2	1 6	6 13.43	+21 55.1	2.406	3.373	3.6	20.5
1 16	6 4.87	+22 38.1	2.098	3.020	7.8	18.5	1 16	6 5.38	+22 3.8	2.452	3.371	7.0	20.7
1 26	5 58.76	+22 14.6	2.184	3.035	11.1	18.7	1 26	5 58.92	+22 11.6	2.524	3.369	9.9	20.9
<b>245424</b>	2005 <i>JF<sub>74</sub></i>		12 26.8	159°07	4°3/26.8	18	<b>267109</b>	2000 <i>AW<sub>231</sub></i>		12 26.8	12°61	1°8/27.1	18
11 17	6 52.04	+13 19.2	2.143	2.892	14.9	20.5	11 17	6 44.51	+17 25.4	1.289	2.099	19.8	19.3
11 27	6 47.46	+12 27.1	2.055	2.896	12.1	20.3	11 27	6 43.07	+17 41.8	1.226	2.108	15.9	19.0
12 7	6 40.55	+11 40.4	1.989	2.900	9.0	20.1	12 7	6 38.35	+18 8.8	1.182	2.118	11.2	18.8
12 17	6 31.87	+11 1.0	1.949	2.903	5.9	19.9	12 17	6 31.01	+18 45.2	1.161	2.131	5.9	18.5
12 27	6 22.26	+10 30.9	1.939	2.906	4.3	19.8	12 27	6 22.31	+19 28.1	1.163	2.146	1.8	18.3
1 6	6 12.74	+10 11.3	1.957	2.908	6.0	19.9	1 6	6 13.81	+20 13.6	1.192	2.162	5.8	18.6
1 16	6 4.28	+10 2.4	2.004	2.910	9.1	20.1	1 16	6 6.94	+20 58.7	1.245	2.180	10.7	18.9
1 26	5 57.70	+10 3.5	2.077	2.912	12.2	20.3	1 26	6 2.81	+21 41.2	1.321	2.199	15.0	19.2
<b>22620</b>	1998 <i>KZ<sub>26</sub></i>		12 26.8	90°38	4°4/26.2	18	<b>316329</b>	2010 <i>RB<sub>115</sub></i>		12 26.8	144°39	2°0/26.9	18
11 17													



EPHEMERIDES

12 26.8

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>56755</b>	2000 <i>OT</i> <sub>12</sub>		12 26.8 176°01'	0°7/26.7	18		<b>35443</b>	1998 <i>BG</i> <sub>42</sub>		12 26.8 37°85'	3°9/26.7	18	
11 17	6 55.81	+24 45.1	2.033	2.794	15.2	20.3	11 17	6 55.42	+29 50.3	1.103	1.914	22.5	16.9
11 27	6 50.88	+24 53.4	1.942	2.797	12.2	20.1	11 27	6 52.74	+30 18.7	1.044	1.925	18.0	16.7
12 7	6 43.20	+25 2.5	1.874	2.798	8.5	19.9	12 7	6 45.59	+30 44.6	1.003	1.938	12.8	16.4
12 17	6 33.33	+25 10.3	1.831	2.800	4.4	19.6	12 17	6 34.83	+31 1.7	0.983	1.951	7.3	16.1
12 27	6 22.27	+25 14.3	1.817	2.800	0.7	19.4	12 27	6 22.27	+31 3.9	0.986	1.965	3.9	16.0
1 6	6 11.25	+25 13.4	1.834	2.800	4.6	19.7	1 6	6 10.18	+30 49.6	1.014	1.980	7.5	16.3
1 16	6 1.48	+25 8.0	1.880	2.800	8.7	19.9	1 16	6 0.57	+30 21.9	1.066	1.995	12.7	16.6
1 26	5 53.94	+24 59.6	1.951	2.799	12.3	20.1	1 26	5 54.83	+29 46.8	1.139	2.011	17.4	16.9
<b>314928</b>	2006 <i>WX</i> <sub>49</sub>		12 26.8 55°27'	1°5/26.6	18		<b>45383</b>	2000 <i>AP</i> <sub>124</sub>		12 26.8 36°67'	0°8/26.8	18	
11 17	6 52.31	+25 34.8	1.807	2.584	16.3	20.8	11 17	6 53.05	+22 38.9	1.150	1.960	21.8	18.3
11 27	6 48.42	+26 3.0	1.731	2.595	12.9	20.6	11 27	6 50.21	+22 22.6	1.093	1.974	17.4	18.1
12 7	6 41.63	+26 33.0	1.677	2.605	9.0	20.4	12 7	6 43.44	+22 9.3	1.053	1.990	12.1	17.8
12 17	6 32.56	+27 1.2	1.647	2.616	4.7	20.2	12 17	6 33.60	+21 57.6	1.035	2.007	6.2	17.6
12 27	6 22.29	+27 24.3	1.645	2.627	1.5	20.0	12 27	6 22.31	+21 46.3	1.041	2.024	0.8	17.2
1 6	6 12.14	+27 40.1	1.672	2.638	5.0	20.2	1 6	6 11.48	+21 35.1	1.073	2.043	6.2	17.7
1 16	6 3.39	+27 48.3	1.727	2.650	9.2	20.5	1 16	6 2.82	+21 24.8	1.128	2.061	11.7	18.0
1 26	5 57.05	+27 50.4	1.807	2.661	12.8	20.8	1 26	5 57.51	+21 16.9	1.206	2.081	16.4	18.4
<b>474323</b>	2002 <i>CE</i> <sub>258</sub>		12 26.8 18°35'	2°9/27.2	17		<b>292502</b>	2006 <i>TW</i> <sub>13</sub>		12 26.8 62°80'	0°6/26.9	18	
11 17	6 47.45	+16 21.7	1.129	1.943	21.8	20.9	11 17	6 52.03	+18 59.5	1.799	2.572	16.5	20.6
11 27	6 45.84	+16 21.9	1.068	1.951	17.6	20.6	11 27	6 48.12	+19 32.9	1.722	2.582	13.2	20.4
12 7	6 40.52	+16 34.3	1.025	1.960	12.5	20.4	12 7	6 41.41	+20 14.0	1.666	2.593	9.2	20.2
12 17	6 32.19	+16 58.7	1.001	1.971	6.9	20.1	12 17	6 32.47	+21 0.5	1.635	2.604	4.7	20.0
12 27	6 22.30	+17 32.9	1.002	1.983	2.9	19.9	12 27	6 22.34	+21 49.0	1.632	2.615	0.6	19.7
1 6	6 12.63	+18 13.5	1.027	1.996	6.6	20.2	1 6	6 12.27	+22 36.0	1.659	2.627	4.8	20.0
1 16	6 4.86	+18 57.0	1.076	2.011	11.9	20.5	1 16	6 3.48	+23 19.3	1.714	2.638	9.1	20.3
1 26	6 0.24	+19 40.7	1.147	2.027	16.6	20.8	1 26	5 57.00	+23 58.0	1.794	2.650	12.8	20.5
<b>168</b>	<i>Sibylla</i>		12 26.8 64°36'	1°9/26.9	18		<b>61053</b>	2000 <i>KQ</i> <sub>73</sub>		12 26.8 323°21'	8°9/27.2	18	
11 17	6 47.57	+17 33.8	2.505	3.263	12.8	13.3	11 17	6 45.84	+ 0 5.8	2.138	2.859	15.7	19.1
11 27	6 43.67	+17 20.9	2.418	3.269	10.2	13.1	11 27	6 42.71	- 1 4.2	2.046	2.848	13.7	18.9
12 7	6 37.80	+17 12.0	2.355	3.276	7.2	12.9	12 7	6 37.42	- 2 1.1	1.975	2.839	11.5	18.7
12 17	6 30.46	+17 7.1	2.317	3.282	4.0	12.7	12 17	6 30.39	- 2 40.0	1.927	2.829	9.7	18.6
12 27	6 22.35	+17 6.2	2.310	3.289	1.9	12.6	12 27	6 22.39	- 2 57.0	1.904	2.820	8.9	18.6
1 6	6 14.31	+17 8.9	2.332	3.296	4.0	12.7	1 6	6 14.32	- 2 50.7	1.908	2.811	9.6	18.6
1 16	6 7.15	+17 14.7	2.383	3.302	7.2	12.9	1 16	6 7.12	- 2 22.1	1.936	2.802	11.5	18.7
1 26	6 1.54	+17 23.3	2.462	3.309	10.1	13.1	1 26	6 1.60	- 1 34.8	1.988	2.794	13.8	18.8
<b>454760</b>	2014 <i>WF</i> <sub>48</sub>		12 26.8 247°13'	3°0/26.9	18		<b>112630</b>	2002 <i>PA</i> <sub>77</sub>		12 26.8 297°80'	4°0/26.5	18	
11 17	6 48.43	+13 58.5	2.728	3.471	12.2	21.6	11 17	6 52.74	+34 39.4	2.275	3.033	13.9	20.0
11 27	6 44.28	+13 33.4	2.617	3.456	9.9	21.4	11 27	6 48.48	+35 7.0	2.182	3.029	11.3	19.8
12 7	6 38.25	+13 13.0	2.530	3.441	7.3	21.2	12 7	6 41.56	+35 29.8	2.112	3.026	8.3	19.6
12 17	6 30.73	+12 58.4	2.470	3.426	4.6	21.0	12 17	6 32.53	+35 43.8	2.067	3.022	5.4	19.4
12 27	6 22.36	+12 50.1	2.439	3.411	3.0	20.9	12 27	6 22.34	+35 45.4	2.051	3.018	4.0	19.3
1 6	6 13.90	+12 48.3	2.439	3.395	4.6	21.0	1 6	6 12.18	+35 33.3	2.064	3.015	5.7	19.4
1 16	6 6.15	+12 52.8	2.469	3.379	7.4	21.1	1 16	6 3.22	+35 8.5	2.105	3.012	8.7	19.6
1 26	5 59.80	+13 3.0	2.526	3.362	10.2	21.3	1 26	5 56.41	+34 34.5	2.172	3.008	11.7	19.8
<b>326892</b>	2003 <i>WM</i> <sub>23</sub>		12 26.8 70°53'	5°2/26.9	18		<b>75456</b>	1999 <i>XR</i> <sub>145</sub>		12 26.8 150°17'	1°5/26.9	18	
11 17	6 49.42	+ 9 46.7	2.239	2.982	14.5	20.9	11 17	6 54.19	+18 46.4	2.531	3.274	13.0	21.3
11 27	6 45.15	+ 8 50.3	2.166	2.999	11.9	20.8	11 27	6 48.79	+18 36.4	2.443	3.286	10.4	21.1
12 7	6 38.81	+ 8 1.8	2.115	3.016	9.1	20.6	12 7	6 41.30	+18 29.7	2.380	3.298	7.3	20.9
12 17	6 30.95	+ 7 23.9	2.090	3.032	6.4	20.5	12 17	6 32.23	+18 25.8	2.343	3.309	3.9	20.7
12 27	6 22.36	+ 6 58.4	2.093	3.049	5.2	20.5	12 27	6 22.36	+18 24.1	2.338	3.318	1.5	20.5
1 6	6 13.94	+ 6 46.2	2.125	3.066	6.4	20.6	1 6	6 12.59	+18 24.3	2.363	3.327	4.0	20.7
1 16	6 6.53	+ 6 46.8	2.185	3.083	8.9	20.7	1 16	6 3.80	+18 26.1	2.420	3.336	7.3	21.0
1 26	6 0.84	+ 6 58.5	2.271	3.099	11.5	20.9	1 26	5 56.71	+18 29.8	2.504	3.343	10.2	21.2
<b>509922</b>	2009 <i>HN</i> <sub>62</sub>		12 26.8 151°85'	2°4/27.0	17		<b>137231</b>	1999 <i>RQ</i> <sub>22</sub>		12 26.8 48°15'	18°4/ 2.1	18	
11 17	6 56.98	+16 43.9	1.745	2.506	17.4	22.5	11 17	6 51.30	-14 17.2	1.252	1.948	26.0	19.2
11 27	6 52.04	+16 38.3	1.663	2.515	14.0	22.3	11 27	6 48.09	-16 19.1	1.218	1.971	23.7	19.1
12 7	6 44.12	+16 39.9	1.602	2.523	10.0	22.1	12 7	6 41.55	-17 44.5	1.196	1.995	21.5	19.0
12 17	6 33.84	+16 48.5	1.566	2.531	5.5	21.8	12 17	6 32.52	-18 23.1	1.190	2.019	19.7	19.0
12 27	6 22.29	+17 2.8	1.558	2.538	2.4	21.7	12 27	6 22.35	-18 8.8	1.200	2.044	18.6	19.0
1 6	6 10.84	+17 21.4	1.580	2.544	5.5	21.9	1 6	6 12.63	-17 3.1	1.229	2.069	18.5	19.1
1 16	6 0.79	+17 43.0	1.629	2.549	9.8	22.1	1 16	6 4.72	-15 13.7	1.277	2.095	19.3	19.2
1 26	5 53.21	+18 6.8	1.704	2.554	13.7	22.4	1 26	5 59.64	-12 53.3	1.343	2.120	20.6	19.4
<b>75338</b>	1999 <i>XX</i> <sub>59</sub>		12 26.8 281°99'	3°3/26.0	18		<b>266930</b>	2010 <i>HZ</i> <sub>37</sub>		12 26.8 195°91'	0°4/26.8	18	
11 17	6 54.34	+27 7.5	1.807	2.581	16.4	19.3	11 17	6 53.09	+21 59.3	2.279	3.036	13.9	21.9
11 27	6 50.47	+28 18.8	1.717	2.578	13.2	19.1	11 27	6 48.41	+21 59.1	2.182	3.034	11.1	21.7
12 7	6 43.42	+29 34.7	1.649	2.575	9.4	18.9	12 7	6 41.34	+22 1.1	2.107	3.031	7.8	21.5
12 17	6 33.68	+30 49.3	1.606	2.572	5.4	18.6	12 17	6 32.37	+22 3.9	2.059	3.028	4.0	21.2
12 27	6 22.29	+31 56.1	1.592	2.569	3.3	18.5	12 27	6 22.36	+22 6.4	2.041	3.024	0.4	20.9
1 6	6 10.69	+32 49.7	1.607	2.566	6.2	18.7	1 6	6 12.33	+22 7.6	2.053	3.020	4.1	21.2
1 16	6 0.37	+33 28.1	1.650	2.563	10.2	18.9	1 16	6 3.32	+22 7.5	2.095	3.015	7.9	21.5
1 26	5 52.62	+33 52.6	1.717	2.560	13.9	19.1	1 26	5 56.21	+22 6.8	2.164	3.010	11.3	21.7
<b>32559</b>	2001 <i>QN</i> <sub>31</sub>		12 26.8 91°65'	1°0/26.7	18		<b>12728</b>	1991 <i>RP</i> <sub>1</sub>		12 26.8 113°20'	8°0/26.7	18	

EPHEMERIDES

12 26.8

12 26.8

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>432701</b>	2011 <i>BA</i> <sub>155</sub>		12 26.8 169°29	1.8/26.7	18		<b>34690</b>	2001 <i>FH</i> <sub>161</sub>		12 26.8 141°75	3.3/26.9	18	
11 17	6 58.51	+28 6.5	1.903	2.664	16.1	21.6	11 17	6 49.00	+14 12.1	2.453	3.202	13.2	19.1
11 27	6 53.29	+28 16.1	1.815	2.669	12.9	21.4	11 27	6 44.82	+13 37.0	2.363	3.205	10.7	19.0
12 7	6 45.02	+28 24.1	1.749	2.672	9.1	21.2	12 7	6 38.64	+13 6.8	2.295	3.208	7.8	18.8
12 17	6 34.32	+28 27.0	1.708	2.675	4.9	20.9	12 17	6 30.94	+12 42.8	2.254	3.211	4.9	18.6
12 27	6 22.33	+28 21.9	1.696	2.677	1.9	20.7	12 27	6 22.45	+12 26.0	2.243	3.214	3.3	18.5
1 6	6 10.44	+28 7.9	1.715	2.679	5.1	20.9	1 6	6 14.02	+12 16.7	2.261	3.217	4.9	18.6
1 16	6 0.02	+27 46.3	1.761	2.680	9.3	21.2	1 16	6 6.47	+12 14.9	2.309	3.219	7.8	18.8
1 26	5 52.13	+27 20.2	1.834	2.680	13.0	21.4	1 26	6 0.51	+12 20.0	2.383	3.222	10.7	19.0
<b>361322</b>	2006 <i>UR</i> <sub>38</sub>		12 26.8 81°71	0°5/26.8	18		<b>451293</b>	2010 <i>TF</i> <sub>18</sub>		12 26.8 89°11	1°5/26.7	18	
11 17	6 52.26	+21 56.3	1.916	2.687	15.7	21.0	11 17	6 53.46	+27 35.4	1.972	2.741	15.4	21.5
11 27	6 48.08	+21 54.1	1.837	2.697	12.5	20.8	11 27	6 49.11	+27 40.7	1.889	2.747	12.3	21.3
12 7	6 41.24	+21 54.5	1.780	2.707	8.7	20.6	12 7	6 42.01	+27 44.6	1.828	2.754	8.6	21.1
12 17	6 32.34	+21 56.3	1.747	2.717	4.4	20.4	12 17	6 32.77	+27 44.4	1.792	2.760	4.6	20.9
12 27	6 22.39	+21 58.0	1.743	2.727	0.5	20.1	12 27	6 22.41	+27 37.9	1.784	2.766	1.5	20.7
1 6	6 12.58	+21 58.8	1.769	2.736	4.5	20.4	1 6	6 12.20	+27 24.5	1.806	2.772	4.7	20.9
1 16	6 4.05	+21 58.7	1.822	2.746	8.7	20.7	1 16	6 3.32	+27 5.2	1.857	2.778	8.7	21.2
1 26	5 57.72	+21 58.6	1.902	2.756	12.3	20.9	1 26	5 56.71	+26 42.6	1.933	2.784	12.2	21.4
<b>142243</b>	2002 <i>RQ</i> <sub>99</sub>		12 26.8 106°12	2°0/26.5	17		<b>156888</b>	2003 <i>EN</i> <sub>15</sub>		12 26.8 210°54	1°6/26.8	18	
11 17	6 51.42	+28 53.6	2.583	3.338	12.5	19.9	11 17	6 56.03	+27 37.1	1.813	2.584	16.5	20.4
11 27	6 46.81	+29 18.1	2.501	3.351	9.9	19.8	11 27	6 51.57	+27 41.1	1.722	2.580	13.2	20.2
12 7	6 40.05	+29 41.4	2.442	3.363	7.0	19.6	12 7	6 43.99	+27 43.6	1.651	2.577	9.3	20.0
12 17	6 31.65	+30 0.6	2.411	3.375	3.9	19.4	12 17	6 33.89	+27 41.5	1.605	2.573	5.0	19.7
12 27	6 22.40	+30 13.4	2.409	3.387	2.0	19.3	12 27	6 22.39	+27 32.2	1.587	2.569	1.6	19.5
1 6	6 13.26	+30 18.7	2.438	3.399	4.1	19.5	1 6	6 10.93	+27 14.7	1.599	2.565	5.2	19.7
1 16	6 5.10	+30 16.6	2.497	3.411	7.1	19.7	1 16	6 0.89	+26 50.5	1.638	2.560	9.6	19.9
1 26	5 58.70	+30 8.7	2.582	3.422	9.9	19.9	1 26	5 53.43	+26 22.7	1.703	2.555	13.6	20.2
<b>207544</b>	2006 <i>KX</i> <sub>90</sub>		12 26.8 137°04	1°5/26.9	18		<b>101564</b>	1999 <i>AV</i> <sub>17</sub>		12 26.8 154°88	1°0/26.7	18	
11 17	6 53.69	+19 1.1	2.203	2.957	14.4	20.8	11 17	6 53.42	+26 1.2	2.167	2.929	14.4	20.2
11 27	6 48.76	+18 53.4	2.120	2.969	11.5	20.6	11 27	6 48.82	+26 6.1	2.078	2.933	11.4	20.0
12 7	6 41.48	+18 49.7	2.059	2.981	8.1	20.4	12 7	6 41.69	+26 10.8	2.012	2.937	8.0	19.8
12 17	6 32.40	+18 49.2	2.025	2.991	4.3	20.2	12 17	6 32.58	+26 13.0	1.972	2.941	4.1	19.6
12 27	6 22.40	+18 51.3	2.020	3.002	1.5	20.0	12 27	6 22.42	+26 10.7	1.961	2.944	1.0	19.4
1 6	6 12.52	+18 55.2	2.046	3.011	4.3	20.2	1 6	6 12.35	+26 3.4	1.980	2.947	4.3	19.6
1 16	6 3.75	+19 0.6	2.102	3.021	8.0	20.5	1 16	6 3.44	+25 51.4	2.029	2.949	8.1	19.9
1 26	5 56.91	+19 7.7	2.184	3.029	11.3	20.7	1 26	5 56.60	+25 36.7	2.104	2.952	11.5	20.1
<b>215262</b>	2001 <i>OD</i> <sub>16</sub>		12 26.8 44°50	4°5/26.1	18		<b>41243</b>	1999 <i>XG</i> <sub>29</sub>		12 26.8 66°03	4°2/26.9	18	
11 17	6 54.44	+30 38.5	1.604	2.386	17.8	19.7	11 17	6 49.53	+13 2.4	2.106	2.862	14.9	19.2
11 27	6 50.70	+31 46.9	1.541	2.404	14.3	19.6	11 27	6 45.51	+12 19.4	2.027	2.872	12.1	19.1
12 7	6 43.55	+32 54.5	1.498	2.422	10.3	19.4	12 7	6 39.24	+11 42.9	1.970	2.882	9.0	18.9
12 17	6 33.68	+33 54.5	1.479	2.441	6.4	19.2	12 17	6 31.27	+11 14.8	1.938	2.892	5.8	18.7
12 27	6 22.38	+34 40.4	1.488	2.460	4.5	19.1	12 27	6 22.45	+10 56.5	1.935	2.903	4.2	18.6
1 6	6 11.29	+35 8.4	1.524	2.479	6.9	19.3	1 6	6 13.76	+10 48.4	1.960	2.913	5.8	18.7
1 16	6 1.93	+35 19.1	1.587	2.499	10.6	19.6	1 16	6 6.14	+10 50.3	2.014	2.924	8.8	18.9
1 26	5 55.46	+35 15.8	1.673	2.519	14.1	19.8	1 26	6 0.36	+11 0.9	2.093	2.934	11.8	19.2
<b>276904</b>	2004 <i>SO</i> <sub>27</sub>		12 26.8 178°77	5°1/27.4	18		<b>287305</b>	2002 <i>TF</i> <sub>218</sub>		12 26.8 68°86	1°3/26.8	18	
11 17	6 53.20	+ 8 27.6	2.269	2.999	14.7	22.8	11 17	6 54.48	+21 11.3	1.734	2.507	17.0	20.5
11 27	6 48.31	+ 7 59.6	2.177	3.001	12.2	22.6	11 27	6 49.88	+20 49.3	1.668	2.528	13.5	20.3
12 7	6 41.18	+ 7 41.2	2.106	3.003	9.3	22.4	12 7	6 42.45	+20 29.8	1.623	2.550	9.4	20.1
12 17	6 32.28	+ 7 34.5	2.061	3.004	6.5	22.3	12 17	6 32.91	+20 12.4	1.603	2.572	4.9	19.9
12 27	6 22.42	+ 7 40.4	2.045	3.004	5.1	22.2	12 27	6 22.42	+19 56.5	1.611	2.593	1.3	19.7
1 6	6 12.55	+ 7 58.7	2.058	3.003	6.3	22.2	1 6	6 12.27	+19 42.5	1.648	2.615	4.9	20.0
1 16	6 3.64	+ 8 28.0	2.101	3.001	9.1	22.4	1 16	6 3.64	+19 30.8	1.713	2.636	9.1	20.3
1 26	5 56.49	+ 9 6.1	2.170	2.999	12.0	22.6	1 26	5 57.43	+19 22.4	1.803	2.658	12.8	20.6
<b>355923</b>	2008 <i>YN</i> <sub>25</sub>		12 26.8 351°08	6°2/26.7	18		<b>401353</b>	2013 <i>AF</i> <sub>166</sub>		12 26.8 205°90	9°0/29.4	18	
11 17	6 56.44	+37 19.5	1.601	2.375	18.1	20.7	11 17	6 51.90	- 5 11.7	2.272	2.949	16.0	22.3
11 27	6 52.75	+37 54.8	1.520	2.373	15.0	20.5	11 27	6 47.35	- 5 32.7	2.178	2.945	14.1	22.1
12 7	6 45.27	+38 22.3	1.458	2.371	11.4	20.3	12 7	6 40.58	- 5 34.7	2.102	2.940	12.0	22.0
12 17	6 34.66	+38 34.8	1.419	2.370	7.9	20.1	12 17	6 32.02	- 5 13.7	2.050	2.935	10.0	21.8
12 27	6 22.36	+38 26.5	1.405	2.369	6.2	20.0	12 27	6 22.46	- 4 27.7	2.024	2.930	9.0	21.8
1 6	6 10.21	+37 55.6	1.419	2.368	8.1	20.1	1 6	6 12.82	- 3 17.5	2.025	2.924	9.4	21.8
1 16	5 59.98	+37 5.3	1.458	2.368	11.6	20.3	1 16	6 4.06	- 1 46.6	2.054	2.917	11.1	21.9
1 26	5 52.98	+36 2.4	1.521	2.368	15.2	20.5	1 26	5 57.01	- 0 0.9	2.109	2.911	13.3	22.0
<b>187375</b>	2005 <i>UQ</i> <sub>352</sub>		12 26.8 129°66	0°5/26.8	17		<b>25239</b>	1998 <i>UB</i> <sub>8</sub>		12 26.8 105°13	0°8/26.7	18	
11 17	6 52.33	+25 12.3	2.173	2.937	14.3	20.8	11 17	6 54.63	+24 39.7	2.016	2.780	15.2	19.4
11 27	6 47.90	+25 10.5	2.085	2.941	11.4	20.6	11 27	6 49.85	+24 55.9	1.940	2.796	12.1	19.2
12 7	6 41.01	+25 8.7	2.020	2.946	7.9	20.4	12 7	6 42.41	+25 13.5	1.885	2.811	8.4	19.0
12 17	6 32.21	+25 4.9	1.981	2.950	4.0	20.2	12 17	6 32.94	+25 29.8	1.857	2.826	4.3	18.8
12 27	6 22.42	+24 57.8	1.971	2.954	0.6	19.9	12 27	6 22.44	+25 42.4	1.858	2.841	0.8	18.6
1 6	6 12.72	+24 47.0	1.991	2.958	4.2	20.2	1 6	6 12.12	+25 49.7	1.889	2.856	4.5	18.9
1 16	6 4.17	+24 33.0	2.040	2.962	8.0	20.5	1 16	6 3.10	+25 52.1	1.949	2.870	8.4	19.1
1 26	5 57.63	+24 17.6	2.115	2.965	11.4	20.7	1 26	5 56.28	+25 50.6	2.035	2.884	11.8	19.4
<b>36945</b>	2000 <i>SM</i> <sub>256</sub>		12 26.8 72°06	3°2/27.2	18		<b>414378</b>	2008 <i>UV</i> <sub>309</sub>		12 26.8 324°26</			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>318497</b>	2005 <i>EP</i> <sub>137</sub>		12 26.8 252°55	3°1/27.3	18		<b>58619</b>	1997 <i>UF</i> <sub>22</sub>		12 26.8 33°02	2°5/27.1	18	
11 17	6 51.12	+13 46.3	1.997	2.754	15.6	21.1	11 17	6 51.57	+17 31.9	1.451	2.239	19.1	18.7
11 27	6 47.27	+13 45.6	1.895	2.743	12.7	20.8	11 27	6 48.41	+17 22.7	1.376	2.244	15.4	18.5
12 7	6 40.84	+13 54.0	1.815	2.732	9.3	20.6	12 7	6 42.00	+17 21.5	1.320	2.249	10.9	18.2
12 17	6 32.28	+14 12.0	1.759	2.720	5.6	20.3	12 17	6 32.96	+17 27.8	1.287	2.255	6.0	18.0
12 27	6 22.46	+14 39.0	1.732	2.708	3.1	20.2	12 27	6 22.51	+17 40.9	1.280	2.261	2.5	17.8
1 6	6 12.47	+15 13.6	1.734	2.696	5.4	20.3	1 6	6 12.16	+17 59.1	1.300	2.268	5.9	18.0
1 16	6 3.45	+15 53.6	1.765	2.684	9.2	20.5	1 16	6 3.39	+18 20.9	1.347	2.274	10.7	18.3
1 26	5 56.43	+16 37.0	1.821	2.671	12.9	20.7	1 26	5 57.33	+18 45.2	1.416	2.282	15.0	18.6
<b>288117</b>	2003 <i>WD</i> <sub>67</sub>		12 26.8 39°13	0°0/26.8	18		<b>390678</b>	2002 <i>TO</i> <sub>255</sub>		12 26.8 75°22	6°4/27.4	17	
11 17	6 52.62	+23 53.0	1.482	2.273	18.6	20.5	11 17	6 53.66	+ 7 54.9	1.864	2.606	17.0	21.2
11 27	6 49.13	+23 42.9	1.414	2.285	14.8	20.3	11 27	6 48.79	+ 6 56.8	1.805	2.635	14.1	21.1
12 7	6 42.35	+23 34.0	1.366	2.298	10.3	20.0	12 7	6 41.48	+ 6 10.2	1.767	2.664	10.8	20.9
12 17	6 33.03	+23 24.6	1.341	2.312	5.2	19.8	12 17	6 32.39	+ 5 38.4	1.754	2.692	7.8	20.8
12 27	6 22.47	+23 13.2	1.343	2.326	0.1	19.4	12 27	6 22.53	+ 5 23.4	1.768	2.720	6.4	20.8
1 6	6 12.20	+22 59.8	1.372	2.341	5.3	19.9	1 6	6 13.00	+ 5 25.2	1.810	2.748	7.6	20.9
1 16	6 3.65	+22 45.2	1.427	2.356	10.1	20.2	1 16	6 4.80	+ 5 42.3	1.880	2.776	10.2	21.1
1 26	5 57.87	+22 31.3	1.506	2.371	14.3	20.5	1 26	5 58.69	+ 6 11.5	1.974	2.803	13.0	21.4
<b>121554</b>	1999 <i>VN</i> <sub>39</sub>		12 26.8 92°35	0°9/26.7	18		<b>137250</b>	1999 <i>RO</i> <sub>75</sub>		12 26.8 127°00	3°8/27.1	18	
11 17	6 51.54	+25 4.1	2.237	3.001	13.9	20.3	11 17	6 55.99	+14 24.7	1.703	2.463	17.8	21.0
11 27	6 47.22	+25 21.1	2.155	3.011	11.1	20.1	11 27	6 51.23	+13 59.7	1.627	2.476	14.4	20.8
12 7	6 40.51	+25 39.2	2.096	3.021	7.7	20.0	12 7	6 43.55	+13 43.0	1.572	2.489	10.4	20.6
12 17	6 31.98	+25 55.9	2.063	3.032	4.0	19.7	12 17	6 33.61	+13 35.5	1.541	2.501	6.3	20.4
12 27	6 22.49	+26 9.2	2.059	3.042	0.9	19.5	12 27	6 22.51	+13 37.4	1.538	2.513	3.8	20.3
1 6	6 13.11	+26 17.6	2.086	3.052	4.1	19.8	1 6	6 11.58	+13 48.0	1.564	2.524	6.1	20.5
1 16	6 4.82	+26 21.1	2.141	3.062	7.8	20.0	1 16	6 2.10	+14 6.3	1.617	2.534	10.1	20.7
1 26	5 58.47	+26 20.8	2.223	3.072	11.0	20.3	1 26	5 55.04	+14 30.6	1.695	2.544	13.8	21.0
<b>518113</b>	2016 <i>CL</i> <sub>286</sub>		12 26.8 59°14	4°2/26.5	16		<b>214937</b>	2007 <i>VG</i> <sub>213</sub>		12 26.8 331°00	1°1/26.9	18	
11 17	6 53.04	+35 8.8	2.264	3.022	14.0	21.5	11 17	6 50.57	+19 36.9	1.698	2.478	17.0	20.1
11 27	6 48.66	+35 41.6	2.184	3.030	11.3	21.3	11 27	6 47.33	+19 42.3	1.609	2.474	13.7	19.9
12 7	6 41.65	+36 9.3	2.126	3.038	8.4	21.1	12 7	6 41.13	+19 53.7	1.541	2.470	9.6	19.6
12 17	6 32.60	+36 27.6	2.093	3.046	5.6	21.0	12 17	6 32.52	+20 10.0	1.496	2.466	5.1	19.4
12 27	6 22.49	+36 33.0	2.089	3.055	4.2	20.9	12 27	6 22.52	+20 29.4	1.479	2.462	1.1	19.1
1 6	6 12.51	+36 24.3	2.114	3.063	5.8	21.0	1 6	6 12.47	+20 49.9	1.490	2.459	5.1	19.3
1 16	6 3.79	+36 2.7	2.167	3.072	8.6	21.2	1 16	6 3.69	+21 10.4	1.529	2.455	9.8	19.6
1 26	5 57.24	+35 31.6	2.246	3.080	11.4	21.4	1 26	5 57.30	+21 30.4	1.591	2.453	13.9	19.8
<b>163948</b>	2003 <i>UH</i> <sub>19</sub>		12 26.8 69°77	1°9/26.9	18		<b>244091</b>	2001 <i>UM</i> <sub>77</sub>		12 26.8 62°11	2°7/26.4	18	
11 17	6 52.12	+18 26.5	1.728	2.503	17.0	19.6	11 17	6 54.06	+27 27.9	1.820	2.594	16.3	19.8
11 27	6 48.25	+18 19.3	1.651	2.511	13.6	19.4	11 27	6 49.88	+28 17.5	1.751	2.611	13.0	19.7
12 7	6 41.54	+18 18.0	1.594	2.520	9.6	19.2	12 7	6 42.72	+29 8.3	1.702	2.628	9.1	19.5
12 17	6 32.60	+18 22.0	1.562	2.529	5.2	18.9	12 17	6 33.24	+29 55.3	1.679	2.646	5.1	19.3
12 27	6 22.49	+18 30.3	1.557	2.538	1.9	18.7	12 27	6 22.53	+30 34.0	1.685	2.663	2.7	19.1
1 6	6 12.51	+18 41.7	1.581	2.547	5.2	19.0	1 6	6 11.98	+31 1.2	1.719	2.680	5.5	19.4
1 16	6 3.90	+18 55.5	1.632	2.556	9.4	19.2	1 16	6 2.88	+31 16.8	1.781	2.698	9.3	19.6
1 26	5 57.63	+19 11.2	1.708	2.565	13.3	19.5	1 26	5 56.26	+31 22.7	1.867	2.716	12.7	19.9
<b>520442</b>	2014 <i>KM</i> <sub>59</sub>		12 26.8 259°45	5°7/27.1	18		<b>489917</b>	2008 <i>QH</i> <sub>11</sub>		12 26.8 66°56	4°0/26.6	17	
11 17	6 50.60	+10 10.9	1.888	2.643	16.5	22.0	11 17	6 54.64	+34 24.0	2.201	2.958	14.3	20.5
11 27	6 46.89	+ 9 24.1	1.793	2.633	13.7	21.8	11 27	6 49.83	+34 58.2	2.133	2.979	11.6	20.3
12 7	6 40.58	+ 8 45.8	1.717	2.624	10.4	21.5	12 7	6 42.39	+35 27.4	2.088	3.001	8.5	20.2
12 17	6 32.15	+ 8 19.2	1.666	2.614	7.3	21.3	12 17	6 32.94	+35 47.2	2.068	3.023	5.5	20.0
12 27	6 22.51	+ 8 6.5	1.643	2.604	5.7	21.2	12 27	6 22.54	+35 54.3	2.077	3.045	4.0	20.0
1 6	6 12.78	+ 8 8.5	1.647	2.595	7.3	21.3	1 6	6 12.40	+35 47.5	2.116	3.066	5.7	20.1
1 16	6 4.10	+ 8 24.7	1.678	2.584	10.5	21.5	1 16	6 3.63	+35 28.5	2.182	3.088	8.5	20.3
1 26	5 57.48	+ 8 52.8	1.734	2.574	13.9	21.6	1 26	5 57.09	+35 0.4	2.275	3.109	11.3	20.5
<b>409374</b>	2005 <i>CB</i> <sub>12</sub>		12 26.8 283°39	4°8/27.9	18		<b>138928</b>	2001 <i>BP</i> <sub>1</sub>		12 26.8 45°30	1°7/26.9	18	
11 17	6 47.87	+ 7 0.8	2.403	3.136	13.9	20.6	11 17	6 53.67	+20 5.6	1.257	2.055	20.9	20.7
11 27	6 44.21	+ 6 56.8	2.293	3.119	11.6	20.4	11 27	6 50.55	+19 51.1	1.190	2.065	16.8	20.4
12 7	6 38.45	+ 7 4.5	2.206	3.102	8.9	20.2	12 7	6 43.70	+19 42.3	1.141	2.074	11.8	20.2
12 17	6 31.01	+ 7 25.5	2.143	3.085	6.3	20.0	12 17	6 33.89	+19 38.4	1.114	2.084	6.2	19.9
12 27	6 22.54	+ 8 0.3	2.109	3.068	4.9	19.9	12 27	6 22.53	+19 38.3	1.112	2.095	1.7	19.7
1 6	6 13.90	+ 8 47.8	2.104	3.051	6.0	19.9	1 6	6 11.44	+19 40.9	1.137	2.105	6.2	20.0
1 16	6 5.98	+ 9 45.6	2.129	3.034	8.7	20.0	1 16	6 2.26	+19 46.0	1.186	2.117	11.5	20.3
1 26	5 59.60	+10 50.8	2.179	3.017	11.6	20.2	1 26	5 56.25	+19 53.6	1.258	2.128	16.2	20.6
<b>415409</b>	2013 <i>PA</i> <sub>46</sub>		12 26.8 203°08	1°8/26.8	18		<b>224052</b>	2005 <i>MD</i> <sub>42</sub>		12 26.8 60°80	3°1/26.9	18	
11 17	6 52.86	+29 49.4	2.580	3.332	12.6	21.4	11 17	6 55.64	+18 0.1	1.346	2.133	20.4	20.2
11 27	6 48.05	+29 50.4	2.481	3.330	10.1	21.2	11 27	6 51.52	+17 26.2	1.288	2.155	16.3	20.0
12 7	6 41.00	+29 48.3	2.406	3.326	7.1	21.0	12 7	6 43.97	+16 58.8	1.249	2.177	11.5	19.8
12 17	6 32.22	+29 41.0	2.358	3.323	3.9	20.8	12 17	6 33.85	+16 38.4	1.233	2.199	6.4	19.6
12 27	6 22.52	+29 26.7	2.340	3.319	1.8	20.7	12 27	6 22.54	+16 25.4	1.242	2.222	3.1	19.4
1 6	6 12.87	+29 5.2	2.353	3.315	4.1	20.8	1 6	6 11.69	+16 19.7	1.279	2.244	6.3	19.7
1 16	6 4.22	+28 37.5	2.395	3.311	7.3	21.0	1 16	6 2.74	+16 21.1	1.342	2.267	11.0	20.0
1 26	5 57.36	+28 5.9	2.465	3.306	10.3	21.2	1 26	5 56.73	+16 28.7	1.427	2.289	15.1	20.3
<b>460838</b>	2014 <i>WA</i> <sub>82</sub>		12 26.8 96°97	0°5/26.7	17		<b>487561</b>	2014 <i>WM</i> <sub>143</sub>		12 26.8			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>447164</b>	2005 <i>JH</i> <sub>162</sub>		12 26.8 140°81		0°1/26.8 18		<b>92644</b>	2000 <i>QU</i> <sub>26</sub>		12 26.8 177°14		1°6/26.9 18	
11 17	6 53.14	+21 15.4	2.207	2.965	14.3	22.2	11 17	6 53.77	+19 8.2	1.841	2.608	16.4	20.4
11 27	6 48.52	+21 38.8	2.120	2.973	11.4	22.0	11 27	6 49.52	+18 59.1	1.752	2.609	13.2	20.2
12 7	6 41.48	+22 6.4	2.057	2.981	7.9	21.8	12 7	6 42.45	+18 54.8	1.685	2.610	9.3	19.9
12 17	6 32.54	+22 36.2	2.019	2.988	4.0	21.6	12 17	6 33.14	+18 54.6	1.643	2.610	5.0	19.7
12 27	6 22.57	+23 5.6	2.012	2.995	0.1	21.2	12 27	6 22.58	+18 57.5	1.629	2.610	1.6	19.5
1 6	6 12.62	+23 32.7	2.035	3.002	4.1	21.6	1 6	6 12.04	+19 2.8	1.644	2.610	5.0	19.7
1 16	6 3.74	+23 56.3	2.088	3.008	7.9	21.8	1 16	6 2.77	+19 10.1	1.687	2.610	9.3	19.9
1 26	5 56.80	+24 16.6	2.167	3.014	11.3	22.1	1 26	5 55.78	+19 19.3	1.756	2.609	13.2	20.2
<b>96726</b>	1999 <i>LA</i> <sub>31</sub>		12 26.8 313°32		3°5/27.3 18		<b>113124</b>	2002 <i>RV</i> <sub>81</sub>		12 26.8 123°28		0°7/26.9 18	
11 17	6 50.60	+14 32.9	1.589	2.366	18.1	19.9	11 17	6 57.03	+21 20.9	1.704	2.473	17.4	20.5
11 27	6 47.50	+14 22.3	1.500	2.360	14.8	19.7	11 27	6 52.21	+21 19.0	1.627	2.486	13.9	20.3
12 7	6 41.36	+14 21.5	1.431	2.354	10.7	19.4	12 7	6 44.33	+21 20.6	1.572	2.498	9.7	20.1
12 17	6 32.70	+14 31.4	1.385	2.348	6.4	19.2	12 17	6 34.06	+21 24.2	1.541	2.510	5.0	19.9
12 27	6 22.56	+14 51.7	1.365	2.342	3.5	19.0	12 27	6 22.56	+21 28.1	1.539	2.522	0.7	19.6
1 6	6 12.33	+15 20.9	1.373	2.337	6.2	19.1	1 6	6 11.26	+21 31.0	1.565	2.533	5.0	19.9
1 16	6 3.39	+15 56.9	1.407	2.332	10.7	19.4	1 16	6 1.49	+21 33.0	1.620	2.543	9.6	20.2
1 26	5 56.93	+16 37.2	1.466	2.327	14.8	19.6	1 26	5 54.29	+21 35.0	1.700	2.553	13.5	20.5
<b>202270</b>	2005 <i>AV</i> <sub>80</sub>		12 26.8 246°50		0°7/26.7 18		<b>150836</b>	2001 <i>SM</i> <sub>34</sub>		12 26.8 102°08		2°0/26.7 18	
11 17	6 49.95	+24 48.6	2.496	3.256	12.7	21.2	11 17	6 58.41	+27 8.4	1.734	2.503	17.2	21.2
11 27	6 45.86	+25 2.4	2.395	3.249	10.2	21.0	11 27	6 53.35	+27 33.9	1.664	2.522	13.7	21.0
12 7	6 39.59	+25 17.2	2.318	3.242	7.1	20.8	12 7	6 45.13	+27 59.4	1.615	2.541	9.6	20.8
12 17	6 31.58	+25 31.2	2.267	3.236	3.7	20.6	12 17	6 34.46	+28 20.8	1.592	2.559	5.1	20.6
12 27	6 22.59	+25 42.6	2.246	3.229	0.7	20.3	12 27	6 22.57	+28 34.3	1.596	2.577	2.0	20.4
1 6	6 13.55	+25 50.0	2.255	3.222	3.9	20.6	1 6	6 10.95	+28 38.2	1.630	2.595	5.3	20.7
1 16	6 5.38	+25 53.3	2.294	3.214	7.3	20.8	1 16	6 0.99	+28 33.3	1.692	2.612	9.5	21.0
1 26	5 58.91	+25 53.3	2.360	3.207	10.5	21.0	1 26	5 53.72	+28 22.2	1.779	2.628	13.2	21.2
<b>255528</b>	2006 <i>FP</i> <sub>21</sub>		12 26.8 139°97		1°6/26.7 18		<b>447931</b>	2008 <i>AT</i> <sub>29</sub>		12 26.8 232°62		0°9/27.0 17	
11 17	6 59.95	+25 57.6	1.624	2.394	18.1	21.8	11 17	6 51.86	+18 20.9	2.146	2.906	14.6	21.3
11 27	6 54.92	+26 20.1	1.546	2.405	14.5	21.6	11 27	6 47.74	+18 48.8	2.047	2.899	11.7	21.1
12 7	6 46.44	+26 44.0	1.489	2.416	10.1	21.3	12 7	6 41.13	+19 24.1	1.969	2.893	8.3	20.9
12 17	6 35.22	+27 5.0	1.457	2.425	5.3	21.1	12 17	6 32.47	+20 5.0	1.918	2.886	4.3	20.6
12 27	6 22.53	+27 19.2	1.452	2.434	1.6	20.9	12 27	6 22.60	+20 49.2	1.896	2.879	0.9	20.3
1 6	6 10.00	+27 24.4	1.477	2.443	5.6	21.1	1 6	6 12.58	+21 33.9	1.904	2.871	4.3	20.6
1 16	5 59.19	+27 21.1	1.529	2.451	10.2	21.4	1 16	6 3.51	+22 16.8	1.942	2.864	8.3	20.8
1 26	5 51.29	+27 12.2	1.606	2.457	14.3	21.7	1 26	5 56.36	+22 56.9	2.006	2.856	11.9	21.0
<b>282852</b>	2006 <i>XK</i> <sub>69</sub>		12 26.8 174°00		1°3/27.0 18		<b>158857</b>	2004 <i>OD</i> <sub>7</sub>		12 26.8 77°11		0°1/26.8 18	
11 17	6 54.87	+18 10.3	1.776	2.542	16.9	21.0	11 17	6 56.21	+21 44.1	1.578	2.355	18.3	20.4
11 27	6 50.56	+18 26.6	1.688	2.544	13.6	20.7	11 27	6 51.71	+22 2.1	1.513	2.376	14.5	20.2
12 7	6 43.29	+18 50.8	1.621	2.545	9.6	20.5	12 7	6 44.04	+22 24.8	1.469	2.398	10.0	20.0
12 17	6 33.61	+19 21.2	1.579	2.546	5.1	20.2	12 17	6 33.91	+22 49.4	1.449	2.419	5.1	19.7
12 27	6 22.56	+19 55.3	1.565	2.547	1.3	20.0	12 27	6 22.58	+23 12.8	1.457	2.440	0.1	19.4
1 6	6 11.46	+20 30.6	1.580	2.547	5.1	20.2	1 6	6 11.55	+23 32.7	1.493	2.461	5.1	19.9
1 16	6 1.65	+21 5.1	1.624	2.547	9.6	20.5	1 16	6 2.20	+23 48.6	1.556	2.482	9.7	20.2
1 26	5 54.23	+21 37.7	1.693	2.547	13.6	20.8	1 26	5 55.56	+24 1.0	1.645	2.502	13.7	20.5
<b>248321</b>	2005 <i>PL</i> <sub>20</sub>		12 26.8 85°92		5°8/28.2 18		<b>215718</b>	2004 <i>BY</i> <sub>91</sub>		12 26.8 310°37		2°6/26.9 17	
11 17	6 51.36	+ 5 26.0	2.088	2.819	15.8	20.9	11 17	6 49.59	+17 47.7	1.702	2.482	17.0	20.5
11 27	6 46.89	+ 5 10.7	2.019	2.840	13.1	20.8	11 27	6 46.60	+17 25.9	1.605	2.468	13.8	20.3
12 7	6 40.18	+ 5 9.0	1.970	2.861	10.2	20.6	12 7	6 40.70	+17 9.2	1.527	2.454	9.9	20.0
12 17	6 31.80	+ 5 22.8	1.946	2.882	7.3	20.5	12 17	6 32.38	+16 58.2	1.474	2.440	5.6	19.7
12 27	6 22.60	+ 5 52.4	1.950	2.903	5.8	20.4	12 27	6 22.61	+16 53.1	1.447	2.427	2.6	19.5
1 6	6 13.57	+ 6 36.1	1.983	2.924	6.8	20.5	1 6	6 12.71	+16 53.6	1.448	2.414	5.7	19.7
1 16	6 5.63	+ 7 30.9	2.044	2.944	9.3	20.7	1 16	6 3.99	+16 59.6	1.476	2.401	10.2	19.9
1 26	5 59.54	+ 8 33.2	2.130	2.964	12.0	20.9	1 26	5 57.60	+17 10.6	1.528	2.389	14.4	20.1
<b>30373</b>	Mattharley		12 26.8 102°80		3°7/26.7 18		<b>456496</b>	2006 <i>WH</i> <sub>180</sub>		12 26.8 70°13		0°5/26.9 18	
11 17	6 59.12	+31 43.8	1.689	2.458	17.5	18.9	11 17	6 51.85	+21 33.7	1.900	2.672	15.8	22.1
11 27	6 54.21	+32 10.3	1.617	2.473	14.1	18.7	11 27	6 47.85	+21 36.0	1.820	2.681	12.6	21.9
12 7	6 45.88	+32 33.0	1.565	2.487	10.1	18.5	12 7	6 41.19	+21 41.6	1.762	2.689	8.8	21.7
12 17	6 34.88	+32 46.6	1.538	2.501	6.0	18.3	12 17	6 32.45	+21 49.1	1.729	2.698	4.5	21.4
12 27	6 22.54	+32 46.7	1.539	2.514	3.7	18.2	12 27	6 22.62	+21 56.9	1.724	2.707	0.5	21.1
1 6	6 10.50	+32 32.2	1.568	2.527	6.2	18.4	1 6	6 12.91	+22 3.8	1.748	2.716	4.6	21.5
1 16	6 0.25	+32 5.2	1.624	2.540	10.1	18.6	1 16	6 4.45	+22 9.5	1.800	2.725	8.7	21.7
1 26	5 52.92	+31 30.3	1.705	2.553	13.8	18.9	1 26	5 58.19	+22 14.6	1.878	2.734	12.3	22.0
<b>414647</b>	2009 <i>VX</i> <sub>67</sub>		12 26.8 28°11		1°0/26.8 16		<b>24350</b>	2000 <i>AJ</i> <sub>103</sub>		12 26.8 220°04		1°1/27.1 18	
11 17	6 50.10	+25 23.4	1.863	2.643	15.8	21.6	11 17	6 49.88	+17 59.8	2.305	3.063	13.7	18.4
11 27	6 46.61	+25 32.8	1.786	2.651	12.5	21.4	11 27	6 45.90	+18 19.3	2.210	3.062	11.0	18.2
12 7	6 40.38	+25 42.8	1.730	2.659	8.7	21.2	12 7	6 39.68	+18 45.0	2.137	3.060	7.7	18.0
12 17	6 32.03	+25 51.2	1.699	2.669	4.5	21.0	12 17	6 31.67	+19 15.9	2.091	3.058	4.1	17.8
12 27	6 22.59	+25 55.8	1.696	2.678	1.0	20.7	12 27	6 22.64	+19 50.0	2.074	3.056	1.1	17.6
1 6	6 13.29	+25 55.4	1.721	2.689	4.7	21.0	1 6	6 13.55	+20 25.5	2.087	3.054	4.1	17.8
1 16	6 5.30	+25 50.5	1.774	2.699	8.8	21.3	1 16	6 5.35	+21 0.6	2.130	3.052	7.7	18.0
1 26	5 59.55	+25 42.4	1.852	2.710	12.4	21.5	1 26	5 58.90	+21 34.3	2.200	3.050	11.0	18.2
<b>195037</b>	2002 <i>CF</i> <sub>55</sub>		12 26.8 356°03		0°0/26.8 18		<b>251253</b>	2006 <i>VG</i> <sub>52</sub>		12 26.8 41°99			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>190464</b>	2000 <i>CU</i> <sub>59</sub>		12 26.8 357°20	5°5/27.9	18		<b>493471</b>	2014 <i>WM</i> <sub>500</sub>		12 26.8 7°86	4°2/27.7	18	
11 17	6 47.30	+ 7 21.4	2.051	2.798	15.5	19.8	11 17	6 47.26	+10 41.3	1.939	2.700	15.9	20.4
11 27	6 44.00	+ 7 4.6	1.963	2.797	12.9	19.7	11 27	6 44.14	+10 38.4	1.854	2.701	13.0	20.2
12 7	6 38.43	+ 7 0.2	1.895	2.796	9.9	19.5	12 7	6 38.61	+10 47.1	1.790	2.703	9.7	20.0
12 17	6 31.04	+ 7 10.3	1.852	2.795	7.1	19.3	12 17	6 31.16	+11 8.4	1.749	2.705	6.2	19.8
12 27	6 22.66	+ 7 35.7	1.836	2.795	5.5	19.2	12 27	6 22.67	+11 42.0	1.737	2.707	4.2	19.6
1 6	6 14.25	+ 8 15.2	1.848	2.795	6.6	19.3	1 6	6 14.17	+12 26.1	1.752	2.710	5.8	19.7
1 16	6 6.79	+ 9 6.3	1.887	2.795	9.4	19.4	1 16	6 6.69	+13 17.9	1.796	2.714	9.2	20.0
1 26	6 1.13	+10 5.6	1.952	2.796	12.5	19.6	1 26	6 1.14	+14 14.3	1.864	2.718	12.5	20.2
<b>402155</b>	2004 <i>RR</i> <sub>192</sub>		12 26.8 73°85	6°7/26.9	18		<b>264802</b>	2002 <i>OQ</i> <sub>33</sub>		12 26.8 236°69	0°0/26.8	18	
11 17	6 59.65	+42 22.1	2.127	2.866	15.3	20.5	11 17	6 50.84	+24 4.8	2.419	3.179	13.1	20.8
11 27	6 54.25	+43 4.4	2.061	2.886	12.8	20.3	11 27	6 46.56	+23 52.9	2.321	3.174	10.5	20.6
12 7	6 45.68	+43 36.4	2.016	2.905	10.1	20.2	12 7	6 40.05	+23 40.8	2.245	3.170	7.3	20.4
12 17	6 34.70	+43 51.9	1.996	2.925	7.7	20.1	12 17	6 31.83	+23 27.6	2.196	3.165	3.7	20.2
12 27	6 22.60	+43 46.4	2.003	2.944	6.7	20.1	12 27	6 22.66	+23 12.5	2.177	3.161	0.1	19.8
1 6	6 10.88	+43 19.1	2.038	2.964	7.7	20.2	1 6	6 13.53	+22 55.5	2.189	3.156	3.9	20.2
1 16	6 0.89	+42 33.1	2.100	2.983	9.9	20.3	1 16	6 5.34	+22 37.2	2.230	3.151	7.5	20.4
1 26	5 53.64	+41 34.2	2.187	3.002	12.4	20.5	1 26	5 58.91	+22 19.0	2.297	3.146	10.7	20.6
<b>190465</b>	2000 <i>CS</i> <sub>78</sub>		12 26.8 228°70	2°9/27.1	18		<b>418774</b>	2008 <i>UA</i> <sub>265</sub>		12 26.8 188°19	4°1/26.3	18	
11 17	6 54.36	+15 8.0	2.061	2.812	15.4	21.7	11 17	6 52.75	+35 3.7	2.530	3.281	12.8	20.9
11 27	6 49.81	+14 58.1	1.955	2.799	12.5	21.4	11 27	6 48.31	+35 44.5	2.439	3.280	10.4	20.7
12 7	6 42.64	+14 55.1	1.870	2.786	9.1	21.2	12 7	6 41.41	+36 21.5	2.370	3.280	7.8	20.5
12 17	6 33.29	+14 59.5	1.810	2.772	5.4	20.9	12 17	6 32.57	+36 50.4	2.329	3.280	5.2	20.3
12 27	6 22.62	+15 11.0	1.780	2.757	2.9	20.8	12 27	6 22.65	+37 7.6	2.316	3.279	4.1	20.3
1 6	6 11.77	+15 28.7	1.779	2.741	5.3	20.9	1 6	6 12.73	+37 11.2	2.333	3.279	5.6	20.4
1 16	6 1.89	+15 51.5	1.808	2.724	9.2	21.1	1 16	6 3.85	+37 1.7	2.378	3.278	8.2	20.5
1 26	5 54.01	+16 18.4	1.862	2.707	12.9	21.3	1 26	5 56.91	+36 41.8	2.450	3.277	10.8	20.7
<b>372113</b>	2008 <i>SM</i> <sub>134</sub>		12 26.8 328°71	4°2/26.6	18		<b>72614</b>	2001 <i>FU</i> <sub>20</sub>		12 26.8 234°06	3°6/27.0	18	
11 17	6 52.92	+35 10.9	2.220	2.979	14.2	21.0	11 17	6 48.86	+13 25.6	2.344	3.095	13.7	19.1
11 27	6 48.76	+35 35.9	2.128	2.975	11.5	20.8	11 27	6 44.93	+12 51.7	2.250	3.093	11.2	18.9
12 7	6 41.88	+35 55.7	2.058	2.972	8.6	20.6	12 7	6 38.89	+12 23.6	2.178	3.090	8.2	18.7
12 17	6 32.84	+36 5.9	2.014	2.968	5.6	20.4	12 17	6 31.23	+12 2.6	2.132	3.088	5.3	18.5
12 27	6 22.63	+36 3.0	1.998	2.965	4.2	20.3	12 27	6 22.69	+11 49.7	2.115	3.085	3.6	18.4
1 6	6 12.47	+35 45.8	2.011	2.963	5.8	20.4	1 6	6 14.15	+11 45.3	2.127	3.082	5.3	18.5
1 16	6 3.55	+35 15.8	2.052	2.960	8.8	20.6	1 16	6 6.49	+11 49.2	2.169	3.080	8.2	18.7
1 26	5 56.84	+34 36.5	2.119	2.957	11.8	20.8	1 26	6 0.48	+12 0.4	2.236	3.077	11.2	18.9
<b>199803</b>	2007 <i>BJ</i> <sub>66</sub>		12 26.8 168°15	0°8/26.9	18		<b>228836</b>	2003 <i>DW</i> <sub>8</sub>		12 26.8 256°14	0°1/26.9	18	
11 17	6 55.61	+20 31.8	2.010	2.769	15.4	21.6	11 17	6 53.95	+21 52.0	1.796	2.568	16.5	20.9
11 27	6 50.73	+20 34.3	1.921	2.774	12.4	21.4	11 27	6 50.10	+22 4.7	1.694	2.554	13.3	20.7
12 7	6 43.17	+20 40.8	1.854	2.777	8.7	21.2	12 7	6 43.20	+22 22.1	1.612	2.539	9.4	20.4
12 17	6 33.48	+20 49.8	1.813	2.781	4.5	20.9	12 17	6 33.71	+22 42.0	1.555	2.525	4.9	20.1
12 27	6 22.63	+20 59.6	1.800	2.783	0.8	20.6	12 27	6 22.64	+23 1.9	1.526	2.510	0.1	19.7
1 6	6 11.81	+21 9.2	1.818	2.785	4.6	20.9	1 6	6 11.33	+23 19.6	1.526	2.494	5.1	20.0
1 16	6 2.19	+21 17.9	1.865	2.786	8.7	21.2	1 16	6 1.20	+23 34.0	1.554	2.479	9.8	20.3
1 26	5 54.74	+21 26.2	1.939	2.787	12.3	21.4	1 26	5 53.48	+23 45.6	1.607	2.463	14.1	20.5
<b>310019</b>	2009 <i>MJ</i> <sub>3</sub>		12 26.8 328°56	13°5/24.1	18		<b>261854</b>	2006 <i>DG</i> <sub>205</sub>		12 26.8 156°55	1°6/26.7	18	
11 17	6 50.34	- 1 58.0	1.677	2.400	19.3	19.8	11 17	6 59.26	+25 36.4	1.590	2.364	18.3	22.0
11 27	6 46.99	- 4 40.5	1.596	2.390	17.3	19.6	11 27	6 54.56	+26 2.5	1.509	2.370	14.7	21.8
12 7	6 40.85	- 7 11.5	1.535	2.379	15.3	19.5	12 7	6 46.36	+26 30.8	1.448	2.376	10.3	21.5
12 17	6 32.41	- 9 20.7	1.496	2.369	13.9	19.3	12 17	6 35.28	+26 57.1	1.412	2.381	5.4	21.3
12 27	6 22.64	-10 58.3	1.482	2.360	13.6	19.3	12 27	6 22.62	+27 17.0	1.403	2.385	1.6	21.0
1 6	6 12.78	-11 58.4	1.491	2.351	14.6	19.3	1 6	6 10.02	+27 27.8	1.423	2.389	5.7	21.3
1 16	6 4.06	-12 19.9	1.521	2.343	16.5	19.4	1 16	5 59.11	+27 29.6	1.470	2.392	10.5	21.6
1 26	5 57.57	-12 6.8	1.571	2.336	18.6	19.6	1 26	5 51.13	+27 24.9	1.542	2.395	14.7	21.9
<b>117870</b>	2174 <i>P-L</i>		12 26.8 174°80	1°6/26.7	18		<b>271934</b>	2004 <i>XR</i> <sub>134</sub>		12 26.8 90°81	2°6/26.3	18	
11 17	6 55.74	+28 19.6	2.730	3.473	12.2	21.3	11 17	6 53.30	+28 27.1	2.301	3.061	13.7	20.1
11 27	6 50.17	+28 33.5	2.634	3.477	9.7	21.1	11 27	6 48.71	+29 17.8	2.223	3.075	10.9	20.0
12 7	6 42.42	+28 46.1	2.561	3.480	6.8	21.0	12 7	6 41.66	+30 8.9	2.168	3.089	7.7	19.8
12 17	6 32.98	+28 54.6	2.517	3.482	3.7	20.8	12 17	6 32.68	+30 56.2	2.140	3.103	4.4	19.6
12 27	6 22.64	+28 57.2	2.503	3.483	1.6	20.6	12 27	6 22.67	+31 35.8	2.141	3.117	2.6	19.5
1 6	6 12.34	+28 52.8	2.522	3.484	3.9	20.8	1 6	6 12.70	+32 5.2	2.173	3.131	4.8	19.7
1 16	6 3.00	+28 42.0	2.571	3.484	7.0	21.0	1 16	6 3.84	+32 23.9	2.233	3.145	8.0	19.9
1 26	5 55.39	+28 26.5	2.648	3.483	9.9	21.2	1 26	5 56.97	+32 33.2	2.321	3.159	11.0	20.1
<b>238193</b>	2003 <i>SB</i> <sub>321</sub>		12 26.8 112°02	1°4/26.6	18		<b>139150</b>	2001 <i>FN</i> <sub>95</sub>		12 26.8 326°00	6°3/25.8	18	
11 17	6 54.88	+24 58.9	1.884	2.653	16.0	20.9	11 17	6 53.06	+31 34.7	1.269	2.072	20.5	19.2
11 27	6 50.43	+25 32.0	1.805	2.663	12.7	20.7	11 27	6 51.20	+32 53.1	1.186	2.061	16.8	18.9
12 7	6 43.10	+26 7.7	1.747	2.673	8.9	20.4	12 7	6 45.07	+34 14.2	1.121	2.050	12.5	18.7
12 17	6 33.48	+26 42.4	1.714	2.683	4.6	20.2	12 17	6 35.08	+35 28.9	1.079	2.040	8.2	18.4
12 27	6 22.63	+27 12.3	1.710	2.692	1.4	20.0	12 27	6 22.62	+36 26.7	1.060	2.030	6.3	18.3
1 6	6 11.85	+27 34.8	1.736	2.701	4.9	20.3	1 6	6 9.80	+37 0.5	1.066	2.021	9.2	18.4
1 16	6 2.41	+27 49.4	1.790	2.710	9.0	20.5	1 16	5 58.90	+37 9.1	1.096	2.013	13.8	18.6
1 26	5 55.35	+27 57.4	1.869	2.719	12.7	20.8	1 26	5 51.75	+36 57.4	1.147	2.006	18.3	18.9
<b>260037</b>	2004 <i>GK</i> <sub>40</sub>		12 26.8 330°71	5°7/27.2	18		<b>337062</b>	1997 <i>SZ</i> <sub>16</sub>		12 26.8 117°33			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>411587</b>	2011 <i>EY</i> <sub>58</sub>		12 26.8	74°52	0°8/27.0	17	<b>4734</b>	Rameau		12 26.9	44°50	0°8/26.8	18 R
11 17	6 50.07	+18 54.6	2.276	3.036	13.8	21.2	11 17	6 54.41	+24 23.7	1.288	2.086	20.5	17.8
11 27	6 45.99	+19 18.4	2.194	3.047	11.0	21.0	11 27	6 51.07	+24 34.3	1.229	2.104	16.3	17.5
12 7	6 39.68	+19 47.8	2.134	3.058	7.7	20.8	12 7	6 44.02	+24 47.4	1.188	2.122	11.3	17.3
12 17	6 31.65	+20 21.3	2.101	3.069	4.0	20.6	12 17	6 34.06	+24 59.6	1.170	2.141	5.8	17.1
12 27	6 22.69	+20 56.9	2.097	3.080	0.8	20.4	12 27	6 22.71	+25 7.6	1.177	2.160	0.8	16.8
1 6	6 13.78	+21 32.2	2.123	3.091	4.0	20.6	1 6	6 11.75	+25 9.8	1.211	2.180	5.8	17.2
1 16	6 5.85	+22 6.0	2.179	3.102	7.5	20.9	1 16	6 2.81	+25 6.9	1.270	2.200	11.0	17.5
1 26	5 59.70	+22 37.3	2.262	3.113	10.7	21.1	1 26	5 57.04	+25 0.9	1.352	2.221	15.3	17.8
<b>46309</b>	2001 <i>QA</i> <sub>2</sub>		12 26.8	191°77	4°6/27.4	18	<b>488521</b>	2001 <i>QY</i> <sub>189</sub>		12 26.9	195°33	6°8/27.8	18
11 17	6 47.08	+ 8 5.5	2.720	3.451	12.5	19.5	11 17	6 46.70	- 5 47.3	3.672	4.322	10.7	22.8
11 27	6 43.18	+ 7 36.4	2.626	3.450	10.4	19.3	11 27	6 42.38	- 6 35.1	3.576	4.319	9.5	22.7
12 7	6 37.51	+ 7 15.5	2.554	3.449	8.0	19.2	12 7	6 36.71	- 7 11.9	3.502	4.315	8.2	22.6
12 17	6 30.48	+ 7 4.4	2.509	3.448	5.7	19.0	12 17	6 30.02	- 7 35.3	3.454	4.310	7.2	22.5
12 27	6 22.72	+ 7 4.4	2.492	3.447	4.6	19.0	12 27	6 22.78	- 7 43.3	3.432	4.304	6.8	22.5
1 6	6 14.95	+ 7 15.2	2.505	3.446	5.6	19.0	1 6	6 15.52	- 7 35.3	3.438	4.298	7.1	22.5
1 16	6 7.91	+ 7 36.2	2.546	3.444	7.8	19.2	1 16	6 8.76	- 7 12.1	3.472	4.292	8.1	22.5
1 26	6 2.22	+ 8 5.4	2.614	3.442	10.2	19.3	1 26	6 2.99	- 6 35.6	3.531	4.285	9.3	22.6
<b>307357</b>	2002 <i>RW</i> <sub>208</sub>		12 26.8	75°76	1°0/26.9	18	<b>366558</b>	2002 <i>RS</i> <sub>174</sub>		12 26.9	82°15	5°4/26.9	17
11 17	6 54.62	+20 22.1	1.810	2.578	16.6	21.0	11 17	6 58.18	+40 42.0	2.478	3.212	13.5	21.2
11 27	6 49.95	+20 19.4	1.744	2.602	13.2	20.9	11 27	6 52.48	+41 13.6	2.411	3.236	11.1	21.1
12 7	6 42.55	+20 20.8	1.699	2.625	9.2	20.7	12 7	6 44.15	+41 36.5	2.367	3.259	8.6	20.9
12 17	6 33.10	+20 25.0	1.680	2.649	4.7	20.4	12 17	6 33.88	+41 46.0	2.348	3.283	6.4	20.8
12 27	6 22.69	+20 30.7	1.689	2.672	1.0	20.2	12 27	6 22.72	+41 38.8	2.358	3.306	5.4	20.8
1 6	6 12.58	+20 36.9	1.728	2.695	4.7	20.5	1 6	6 11.91	+41 14.6	2.397	3.329	6.4	20.9
1 16	6 3.90	+20 43.2	1.794	2.718	8.8	20.8	1 16	6 2.52	+40 35.6	2.465	3.352	8.5	21.1
1 26	5 57.55	+20 49.9	1.886	2.740	12.4	21.1	1 26	5 55.41	+39 46.1	2.559	3.374	10.8	21.3
<b>70852</b>	1999 <i>VY</i> <sub>113</sub>		12 26.8	40°37	4°7/26.6	18	<b>67777</b>	2000 <i>UH</i> <sub>81</sub>		12 26.9	105°06	4°4/27.3	18
11 17	6 53.01	+16 31.2	1.489	2.270	19.0	19.0	11 17	6 57.63	+13 12.7	1.587	2.347	18.8	19.8
11 27	6 49.22	+15 16.2	1.420	2.281	15.3	18.8	11 27	6 52.63	+12 43.5	1.521	2.369	15.3	19.6
12 7	6 42.34	+14 5.2	1.371	2.294	11.2	18.6	12 7	6 44.58	+12 24.0	1.474	2.389	11.1	19.4
12 17	6 33.08	+13 1.6	1.345	2.306	6.9	18.4	12 17	6 34.21	+12 15.8	1.452	2.410	6.9	19.2
12 27	6 22.70	+12 8.7	1.347	2.319	4.7	18.3	12 27	6 22.72	+12 19.1	1.457	2.429	4.4	19.1
1 6	6 12.62	+11 29.2	1.375	2.333	7.1	18.5	1 6	6 11.54	+12 33.1	1.490	2.448	6.6	19.3
1 16	6 4.16	+11 4.2	1.430	2.347	11.2	18.7	1 16	6 1.97	+12 56.2	1.550	2.466	10.5	19.6
1 26	5 58.31	+10 53.3	1.507	2.361	14.9	19.0	1 26	5 54.98	+13 26.1	1.635	2.484	14.2	19.9
<b>45415</b>	2000 <i>AV</i> <sub>149</sub>		12 26.9	187°85	4°3/27.6	18	<b>418896</b>	2009 <i>AK</i> <sub>15</sub>		12 26.9	305°33	35°1/17.3	18 R
11 17	6 51.68	+ 9 37.9	2.258	2.995	14.6	19.3	11 17	6 39.05	- 8 52.9	0.564	1.395	35.1	20.3
11 27	6 47.26	+ 9 30.1	2.164	2.995	12.0	19.1	11 27	6 43.01	-15 37.8	0.477	1.333	35.8	19.9
12 7	6 40.60	+ 9 32.6	2.091	2.994	9.0	18.9	12 7	6 42.64	-23 40.8	0.403	1.269	38.4	19.5
12 17	6 32.16	+ 9 46.5	2.043	2.992	6.0	18.7	12 17	6 36.56	-33 3.9	0.342	1.201	44.1	19.2
12 27	6 22.72	+10 12.0	2.024	2.990	4.3	18.6	12 27	6 22.60	-43 41.8	0.294	1.131	53.2	19.0
1 6	6 13.23	+10 47.8	2.036	2.988	5.7	18.7	1 6	6 54.85	-55 33.4	0.256	1.060	65.9	18.9
1 16	6 4.65	+11 31.9	2.076	2.985	8.7	18.9	1 16	4 47.87	-68 22.0	0.227	0.989	82.1	19.0
1 26	5 57.80	+12 21.7	2.143	2.982	11.7	19.0	1 26	1 0.00	-76 26.6	0.211	0.920	101.5	19.5
<b>44765</b>	1999 <i>TP</i> <sub>122</sub>		12 26.9	30°17	4°7/27.4	18	<b>448498</b>	2010 <i>LK</i> <sub>31</sub>		12 26.9	119°36	4°3/26.9	17
11 17	6 50.69	+13 56.5	1.178	1.979	21.9	18.9	11 17	6 59.25	+36 41.6	2.218	2.963	14.6	21.1
11 27	6 48.29	+13 31.1	1.115	1.988	17.8	18.7	11 27	6 53.56	+36 57.0	2.139	2.977	11.9	20.9
12 7	6 42.23	+13 18.3	1.069	1.997	13.0	18.4	12 7	6 45.05	+37 5.0	2.082	2.990	8.8	20.8
12 17	6 33.24	+13 19.9	1.044	2.007	7.9	18.2	12 17	6 34.40	+37 1.2	2.051	3.002	5.8	20.6
12 27	6 22.70	+13 36.2	1.043	2.019	4.7	18.0	12 27	6 22.73	+36 42.4	2.049	3.014	4.3	20.5
1 6	6 12.39	+14 5.1	1.066	2.031	7.5	18.2	1 6	6 11.36	+36 8.5	2.077	3.026	5.9	20.7
1 16	6 3.94	+14 43.7	1.114	2.043	12.3	18.5	1 16	6 1.49	+35 22.1	2.134	3.038	8.7	20.9
1 26	5 58.58	+15 28.3	1.184	2.057	16.8	18.8	1 26	5 54.02	+34 27.8	2.217	3.049	11.6	21.1
<b>140290</b>	2001 <i>SO</i> <sub>290</sub>		12 26.9	7°07	7°2/25.1	18	<b>331511</b>	2000 <i>AU</i> <sub>223</sub>		12 26.9	253°85	5°6/28.4	18
11 17	6 56.11	+16 25.5	1.482	2.257	19.3	17.8	11 17	6 49.00	+ 3 42.1	2.421	3.139	14.2	20.9
11 27	6 51.71	+13 51.5	1.402	2.258	15.9	17.6	11 27	6 45.02	+ 3 43.4	2.323	3.134	11.9	20.7
12 7	6 44.10	+11 13.9	1.344	2.260	12.0	17.3	12 7	6 38.99	+ 3 58.8	2.245	3.129	9.4	20.6
12 17	6 34.00	+ 8 40.2	1.312	2.263	8.4	17.1	12 17	6 31.35	+ 4 29.9	2.193	3.124	7.0	20.4
12 27	6 22.70	+ 6 20.2	1.308	2.267	7.3	17.1	12 27	6 22.78	+ 5 16.9	2.169	3.119	5.6	20.3
1 6	6 11.69	+ 4 22.5	1.333	2.272	9.6	17.2	1 6	6 14.12	+ 6 18.4	2.174	3.113	6.4	20.3
1 16	6 2.36	+ 2 52.6	1.384	2.278	13.2	17.5	1 16	6 6.23	+ 7 31.3	2.209	3.108	8.7	20.5
1 26	5 55.74	+ 1 51.2	1.457	2.285	16.8	17.7	1 26	5 59.89	+ 8 51.6	2.270	3.102	11.4	20.6
<b>518515</b>	2006 <i>KO</i> <sub>94</sub>		12 26.9	246°45	1°7/26.9	18	<b>76163</b>	2000 <i>EB</i> <sub>27</sub>		12 26.9	122°76	4°2/27.5	18
11 17	6 52.93	+18 50.4	2.036	2.797	15.2	22.8	11 17	6 48.28	+ 9 44.7	2.454	3.194	13.5	20.0
11 27	6 48.78	+18 41.8	1.930	2.784	12.3	22.6	11 27	6 44.33	+ 9 27.6	2.366	3.199	11.1	19.8
12 7	6 41.98	+18 37.6	1.846	2.769	8.7	22.3	12 7	6 38.42	+ 9 19.5	2.301	3.203	8.3	19.6
12 17	6 33.00	+18 37.3	1.788	2.755	4.8	22.1	12 17	6 31.01	+ 9 21.5	2.261	3.208	5.6	19.5
12 27	6 22.71	+18 40.4	1.758	2.740	1.7	21.8	12 27	6 22.79	+ 9 34.0	2.249	3.213	4.2	19.4
1 6	6 12.26	+18 45.9	1.758	2.724	4.8	22.0	1 6	6 14.60	+ 9 56.4	2.267	3.217	5.4	19.5
1 16	6 2.83	+18 53.6	1.787	2.708	9.0	22.2	1 16	6 7.24	+10 27.2	2.315	3.222	8.0	19.6
1 26	5 55.44	+19 3.3	1.841	2.692	12.8	22.4	1 26	6 1.42	+11 4.6	2.388	3.226	10.7	19.8
<b>370514</b>	2003 <i>SK</i> <sub>208</sub>		12 26.9	75°60	3°0/26.9	18	<b>403970</b>	2012 <i>BY</i> <sub>78</sub>		12 26.9	44°09		

EPHEMERIDES

12 26.9

12 26.9

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>394502</b>	2007 <i>TE</i> <sub>212</sub>		12 26.9 106°61	0°2/26.9 18			<b>115547</b>	2003 <i>UV</i> <sub>65</sub>		12 26.9 137°45	2°4/27.4 18		
11 17	6 54.84	+23 21.7	1.912	2.678	15.9	21.6	11 17	6 49.50	+14 1.7	2.582	3.326	12.8	19.9
11 27	6 50.19	+23 13.2	1.833	2.691	12.6	21.4	11 27	6 45.23	+14 7.9	2.493	3.333	10.3	19.8
12 7	6 42.80	+23 5.7	1.776	2.702	8.8	21.2	12 7	6 39.03	+14 21.3	2.426	3.340	7.4	19.6
12 17	6 33.31	+22 57.9	1.745	2.714	4.5	21.0	12 17	6 31.33	+14 41.6	2.387	3.347	4.4	19.4
12 27	6 22.77	+22 48.6	1.742	2.725	0.2	20.6	12 27	6 22.84	+15 8.0	2.377	3.353	2.4	19.3
1 6	6 12.42	+22 37.3	1.769	2.737	4.5	21.0	1 6	6 14.35	+15 39.1	2.398	3.359	4.2	19.4
1 16	6 3.43	+22 24.9	1.824	2.747	8.7	21.3	1 16	6 6.68	+16 13.5	2.449	3.365	7.1	19.6
1 26	5 56.71	+22 12.7	1.905	2.758	12.3	21.5	1 26	6 0.53	+16 49.8	2.527	3.371	10.0	19.8
<b>372147</b>	2008 <i>SQ</i> <sub>267</sub>		12 26.9 40°56	4°3/26.5 18			<b>334966</b>	2004 <i>DK</i> <sub>51</sub>		12 26.9 231°16	4°4/26.5 18		
11 17	6 52.89	+35 2.5	2.221	2.981	14.1	20.7	11 17	6 57.69	+32 3.9	1.646	2.419	17.7	21.1
11 27	6 48.71	+35 37.5	2.139	2.985	11.5	20.5	11 27	6 53.64	+32 43.0	1.557	2.415	14.4	20.9
12 7	6 41.85	+36 7.7	2.078	2.991	8.5	20.4	12 7	6 45.98	+33 19.8	1.489	2.410	10.6	20.6
12 17	6 32.88	+36 28.7	2.043	2.996	5.7	20.2	12 17	6 35.27	+33 48.2	1.444	2.405	6.5	20.4
12 27	6 22.78	+36 36.6	2.036	3.001	4.3	20.1	12 27	6 22.79	+34 2.2	1.427	2.400	4.4	20.3
1 6	6 12.78	+36 30.1	2.058	3.007	5.9	20.2	1 6	6 10.24	+33 59.0	1.437	2.394	6.9	20.4
1 16	6 4.03	+36 10.2	2.108	3.013	8.8	20.4	1 16	5 59.34	+33 39.6	1.474	2.389	11.0	20.6
1 26	5 57.48	+35 40.2	2.183	3.019	11.6	20.6	1 26	5 51.46	+33 8.7	1.535	2.383	15.0	20.8
<b>310209</b>	2011 <i>ST</i> <sub>165</sub>		12 26.9 213°63	2°1/26.9 18			<b>192420</b>	1997 <i>SP</i> <sub>20</sub>		12 26.9 167°78	5°9/26.4 18		
11 17	6 52.41	+18 20.8	1.911	2.677	15.9	21.2	11 17	6 53.70	+33 15.4	1.290	2.090	20.4	19.5
11 27	6 48.38	+18 2.8	1.820	2.675	12.8	21.0	11 27	6 51.30	+34 11.8	1.222	2.094	16.6	19.2
12 7	6 41.68	+17 49.2	1.749	2.673	9.1	20.8	12 7	6 44.75	+35 4.7	1.172	2.098	12.3	19.0
12 17	6 32.83	+17 40.0	1.704	2.670	5.0	20.5	12 17	6 34.73	+35 46.3	1.144	2.104	8.0	18.8
12 27	6 22.79	+17 35.1	1.687	2.668	2.1	20.3	12 27	6 22.79	+36 8.7	1.140	2.110	5.9	18.7
1 6	6 12.75	+17 34.2	1.699	2.665	5.1	20.5	1 6	6 11.02	+36 8.5	1.161	2.118	8.4	18.8
1 16	6 3.88	+17 37.0	1.740	2.662	9.1	20.7	1 16	6 1.37	+35 47.6	1.207	2.126	12.6	19.1
1 26	5 57.15	+17 43.5	1.805	2.658	12.9	21.0	1 26	5 55.30	+35 12.3	1.274	2.134	16.7	19.4
<b>173386</b>	2000 <i>CF</i> <sub>48</sub>		12 26.9 281°45	1°1/26.9 17			<b>50193</b>	2000 <i>AM</i> <sub>194</sub>		12 26.9 193°72	4°9/27.1 18		
11 17	6 53.68	+27 5.8	1.881	2.654	15.9	20.0	11 17	6 51.59	+11 3.3	2.142	2.887	15.0	19.9
11 27	6 49.74	+26 57.9	1.781	2.641	12.8	19.7	11 27	6 47.30	+10 17.0	2.050	2.886	12.4	19.7
12 7	6 42.84	+26 47.9	1.701	2.628	9.0	19.5	12 7	6 40.70	+9 37.8	1.979	2.884	9.4	19.5
12 17	6 33.51	+26 33.5	1.646	2.615	4.8	19.2	12 17	6 32.27	+9 8.1	1.934	2.882	6.4	19.3
12 27	6 22.78	+26 13.0	1.620	2.602	1.1	18.9	12 27	6 22.84	+8 49.7	1.917	2.880	4.9	19.2
1 6	6 11.99	+25 46.2	1.622	2.589	4.9	19.1	1 6	6 13.42	+8 43.5	1.930	2.878	6.4	19.3
1 16	6 2.47	+25 14.5	1.653	2.577	9.4	19.4	1 16	6 4.99	+8 49.0	1.970	2.875	9.3	19.5
1 26	5 55.33	+24 40.9	1.708	2.564	13.4	19.6	1 26	5 58.39	+9 4.9	2.036	2.871	12.4	19.7
<b>265185</b>	2003 <i>YO</i> <sub>102</sub>		12 26.9 53°66	0°8/26.9 18			<b>360885</b>	2005 <i>SD</i> <sub>90</sub>		12 26.9 106°73	6°2/27.5 18		
11 17	6 56.27	+23 5.4	1.245	2.042	21.1	19.9	11 17	6 50.82	+5 39.8	2.290	3.016	14.7	21.5
11 27	6 52.56	+22 42.9	1.185	2.059	16.8	19.6	11 27	6 46.32	+4 47.8	2.216	3.032	12.3	21.4
12 7	6 45.05	+22 22.2	1.143	2.076	11.7	19.4	12 7	6 39.78	+4 6.5	2.163	3.048	9.7	21.2
12 17	6 34.60	+22 2.1	1.123	2.094	6.0	19.1	12 17	6 31.70	+3 38.7	2.136	3.064	7.3	21.1
12 27	6 22.77	+21 41.6	1.129	2.113	0.8	18.8	12 27	6 22.86	+3 26.3	2.136	3.079	6.2	21.1
1 6	6 11.41	+21 21.1	1.162	2.131	6.0	19.2	1 6	6 14.17	+3 29.7	2.165	3.094	7.1	21.2
1 16	6 2.16	+21 2.2	1.219	2.150	11.3	19.6	1 16	6 6.45	+3 47.7	2.222	3.109	9.3	21.3
1 26	5 56.16	+20 46.8	1.300	2.169	15.8	19.9	1 26	6 0.40	+4 17.7	2.305	3.123	11.7	21.5
<b>79411</b>	1997 <i>JY</i> <sub>12</sub>		12 26.9 202°57	2°4/26.5 18			<b>187944</b>	2001 <i>KU</i> <sub>37</sub>		12 26.9 184°01	1°9/27.2 18		
11 17	6 57.81	+28 3.4	2.036	2.794	15.3	20.8	11 17	6 55.59	+16 11.7	1.911	2.667	16.2	20.7
11 27	6 52.87	+28 39.6	1.939	2.790	12.3	20.6	11 27	6 50.97	+16 29.7	1.819	2.668	13.1	20.5
12 7	6 44.96	+29 16.6	1.863	2.785	8.8	20.4	12 7	6 43.56	+16 56.6	1.748	2.668	9.3	20.3
12 17	6 34.59	+29 50.1	1.814	2.779	4.9	20.1	12 17	6 33.86	+17 31.5	1.702	2.667	5.1	20.0
12 27	6 22.77	+30 15.8	1.794	2.773	2.5	20.0	12 27	6 22.84	+18 12.1	1.685	2.666	1.9	19.8
1 6	6 10.82	+30 30.9	1.804	2.765	5.3	20.1	1 6	6 11.72	+18 55.6	1.698	2.664	5.0	20.0
1 16	6 0.09	+30 35.2	1.843	2.757	9.2	20.3	1 16	6 1.75	+19 39.6	1.741	2.662	9.2	20.2
1 26	5 51.73	+30 30.8	1.907	2.749	12.8	20.6	1 26	5 54.00	+20 22.6	1.809	2.659	13.0	20.5
<b>422178</b>	2014 <i>RM</i> <sub>21</sub>		12 26.9 239°05	1°2/26.8 18			<b>248241</b>	2005 <i>ER</i> <sub>283</sub>		12 26.9 287°43	4°9/25.9 18		
11 17	6 53.68	+26 10.9	2.294	3.052	13.8	21.8	11 17	6 52.94	+35 41.2	2.367	3.121	13.5	20.4
11 27	6 49.19	+26 24.1	2.187	3.039	11.1	21.6	11 27	6 48.90	+36 40.4	2.269	3.112	11.1	20.2
12 7	6 42.17	+26 37.7	2.102	3.026	7.8	21.4	12 7	6 42.16	+37 36.7	2.194	3.102	8.4	20.0
12 17	6 33.09	+26 49.2	2.044	3.012	4.1	21.1	12 17	6 33.18	+38 25.0	2.145	3.093	5.9	19.9
12 27	6 22.79	+26 56.2	2.016	2.998	1.2	20.9	12 27	6 22.84	+39 0.0	2.125	3.083	4.9	19.8
1 6	6 12.37	+26 57.3	2.018	2.983	4.3	21.1	1 6	6 12.34	+39 19.0	2.133	3.073	6.4	19.9
1 16	6 2.92	+26 52.5	2.049	2.968	8.2	21.3	1 16	6 2.88	+39 21.7	2.170	3.064	9.1	20.0
1 26	5 55.41	+26 43.4	2.107	2.952	11.6	21.5	1 26	5 55.52	+39 10.6	2.231	3.055	11.9	20.2
<b>141756</b>	2002 <i>LP</i> <sub>58</sub>		12 26.9 147°80	0°0/26.9 18			<b>413236</b>	2003 <i>SQ</i> <sub>154</sub>		12 26.9 52°47	12°3/26.7 17		
11 17	6 58.57	+21 53.7	2.060	2.812	15.3	20.9	11 17	7 8.92	+56 45.5	2.064	2.751	17.2	20.8
11 27	6 53.00	+22 13.7	1.976	2.825	12.2	20.7	11 27	7 3.66	+58 26.2	2.016	2.771	15.4	20.7
12 7	6 44.72	+22 37.4	1.915	2.837	8.5	20.5	12 7	6 53.50	+59 49.3	1.985	2.791	13.8	20.6
12 17	6 34.32	+23 2.3	1.881	2.849	4.3	20.2	12 17	6 39.23	+60 44.4	1.976	2.811	12.7	20.6
12 27	6 22.79	+23 25.8	1.876	2.859	0.1	19.9	12 27	6 22.78	+61 3.5	1.989	2.832	12.3	20.6
1 6	6 11.35	+23 45.7	1.902	2.869	4.4	20.3	1 6	6 6.76	+60 44.5	2.025	2.852	12.7	20.7
1 16	6 1.17	+24 1.5	1.958	2.877	8.5	20.5	1 16	5 53.56	+59 52.0	2.084	2.873	13.8	20.8
1 26	5 53.21	+24 13.8	2.041	2.885	12.0	20.8	1 26	5 44.72	+58 34.9	2.163	2.894	15.1	20.9
<b>51422</b>	2001 <i>EJ</i> <sub>24</sub>		12 26.9 132°07	4°2/26.4 18			<b>50078</b>	2000 <i>AV</i> <sub>86</sub>		12 26.9 15°90	2°3/27.		

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>289807</b>	2005 <i>JH</i> <sub>153</sub>		12 26.9 143°63	1.9°/26.7	18		<b>6649</b>	Yokotatakao		12 26.9 116°36	2.8°/26.8	18	
11 17	6 55.33	+27 44.6	2.269	3.025	14.0	21.8	11 17	6 59.39	+31 1.7	2.119	2.871	15.0	17.9
11 27	6 50.35	+28 9.1	2.184	3.035	11.2	21.6	11 27	6 53.64	+31 19.9	2.045	2.892	12.0	17.7
12 7	6 42.85	+28 33.1	2.122	3.044	7.9	21.4	12 7	6 45.12	+31 34.6	1.994	2.911	8.5	17.5
12 17	6 33.38	+28 53.6	2.086	3.052	4.3	21.2	12 17	6 34.51	+31 42.0	1.968	2.930	4.9	17.3
12 27	6 22.88	+29 7.5	2.080	3.060	1.9	21.0	12 27	6 22.91	+31 39.1	1.972	2.949	2.8	17.2
1 6	6 12.46	+29 13.5	2.105	3.068	4.5	21.2	1 6	6 11.58	+31 25.2	2.007	2.967	5.0	17.4
1 16	6 3.18	+29 11.7	2.159	3.075	8.0	21.5	1 16	6 1.70	+31 1.8	2.071	2.984	8.4	17.6
1 26	5 55.95	+29 3.9	2.239	3.081	11.1	21.7	1 26	5 54.17	+30 32.4	2.161	3.000	11.6	17.9
<b>381020</b>	2006 <i>UE</i> <sub>204</sub>		12 26.9 48°73	3.6°/26.9	18		<b>124344</b>	2001 <i>QL</i> <sub>117</sub>		12 26.9 155°47	1.9°/26.9	18	
11 17	6 58.40	+30 57.6	1.195	1.994	21.7	21.0	11 17	6 58.27	+28 36.4	1.846	2.611	16.4	20.1
11 27	6 54.75	+31 10.7	1.140	2.013	17.4	20.8	11 27	6 53.30	+28 40.9	1.762	2.616	13.2	19.9
12 7	6 46.83	+31 19.0	1.101	2.032	12.4	20.6	12 7	6 45.23	+28 43.0	1.698	2.621	9.3	19.7
12 17	6 35.61	+31 16.8	1.085	2.052	7.0	20.4	12 17	6 34.72	+28 39.3	1.659	2.626	5.0	19.4
12 27	6 22.86	+30 59.8	1.093	2.072	3.6	20.2	12 27	6 22.92	+28 27.3	1.649	2.630	1.9	19.2
1 6	6 10.72	+30 27.9	1.127	2.093	7.0	20.5	1 6	6 11.27	+28 6.3	1.669	2.634	5.1	19.4
1 16	6 1.04	+29 45.5	1.186	2.114	11.9	20.8	1 16	6 1.13	+27 38.1	1.717	2.637	9.4	19.7
1 26	5 55.02	+28 58.6	1.268	2.135	16.3	21.1	1 26	5 53.57	+27 6.0	1.790	2.640	13.1	19.9
<b>217197</b>	2002 <i>TF</i> <sub>135</sub>		12 26.9 125°53	3.3°/26.7	18		<b>283729</b>	2002 <i>UX</i>		12 26.9 84°13	7.6°/25.0	18	
11 17	6 53.26	+34 0.6	2.552	3.302	12.7	20.7	11 17	7 30.07	+29 47.7	0.598	1.418	34.9	19.1
11 27	6 48.55	+34 20.8	2.465	3.308	10.3	20.5	11 27	7 21.27	+25 37.1	0.556	1.442	28.1	18.8
12 7	6 41.51	+34 36.4	2.400	3.313	7.5	20.3	12 7	7 5.48	+20 55.2	0.527	1.465	19.8	18.4
12 17	6 32.67	+34 44.2	2.362	3.318	4.8	20.2	12 17	6 44.74	+15 57.1	0.519	1.488	11.2	18.1
12 27	6 22.90	+34 41.5	2.354	3.323	3.3	20.1	12 27	6 22.83	+11 14.9	0.535	1.511	7.8	18.1
1 6	6 13.23	+34 27.4	2.375	3.328	4.9	20.2	1 6	6 3.71	+7 22.8	0.575	1.533	13.7	18.5
1 16	6 4.65	+34 3.2	2.426	3.333	7.7	20.4	1 16	5 49.92	+4 37.8	0.636	1.554	20.5	19.0
1 26	5 57.97	+33 31.5	2.503	3.338	10.4	20.6	1 26	5 42.37	+2 56.4	0.714	1.574	26.1	19.4
<b>211813</b>	2004 <i>DU</i> <sub>57</sub>		12 26.9 180°78	0.7°/26.9	18		<b>221384</b>	2005 <i>YA</i> <sub>16</sub>		12 26.9 338°21	0.0°/26.9	17	
11 17	6 52.17	+20 31.7	2.019	2.785	15.2	20.7	11 17	6 50.57	+23 6.2	2.093	2.862	14.6	21.2
11 27	6 48.11	+20 38.4	1.929	2.785	12.1	20.5	11 27	6 46.80	+23 6.9	2.001	2.860	11.7	21.0
12 7	6 41.47	+20 49.3	1.860	2.785	8.5	20.3	12 7	6 40.53	+23 9.3	1.931	2.858	8.1	20.8
12 17	6 32.76	+21 3.3	1.817	2.785	4.4	20.0	12 17	6 32.29	+23 12.1	1.887	2.857	4.2	20.5
12 27	6 22.90	+21 18.4	1.802	2.785	0.7	19.7	12 27	6 22.96	+23 13.8	1.872	2.855	0.1	20.2
1 6	6 13.03	+21 33.4	1.817	2.785	4.4	20.0	1 6	6 13.64	+23 13.5	1.886	2.854	4.3	20.5
1 16	6 4.27	+21 47.4	1.861	2.785	8.5	20.3	1 16	6 5.40	+23 11.4	1.929	2.853	8.2	20.8
1 26	5 57.58	+22 0.4	1.931	2.784	12.2	20.5	1 26	5 59.16	+23 8.1	1.997	2.852	11.8	21.0
<b>403681</b>	2010 <i>UZ</i> <sub>85</sub>		12 26.9 111°18	1.3°/26.7	18		<b>337613</b>	2001 <i>TG</i> <sub>47</sub>		12 26.9 97°40	1.1°/26.7	18	
11 17	6 52.93	+25 20.0	2.101	2.866	14.7	21.7	11 17	6 58.28	+23 33.9	1.727	2.494	17.3	21.1
11 27	6 48.65	+25 46.6	2.016	2.873	11.7	21.5	11 27	6 53.28	+24 10.4	1.658	2.516	13.7	20.9
12 7	6 41.80	+26 14.7	1.954	2.880	8.2	21.3	12 7	6 45.18	+24 50.6	1.611	2.537	9.5	20.7
12 17	6 32.90	+26 41.7	1.918	2.886	4.3	21.1	12 17	6 34.67	+25 30.6	1.590	2.558	4.9	20.5
12 27	6 22.90	+27 4.3	1.911	2.893	1.3	20.9	12 27	6 22.95	+26 6.3	1.596	2.579	1.1	20.2
1 6	6 12.94	+27 20.8	1.933	2.899	4.5	21.1	1 6	6 11.44	+26 34.6	1.633	2.599	5.0	20.6
1 16	6 4.13	+27 30.6	1.985	2.905	8.3	21.4	1 16	6 1.51	+26 54.9	1.697	2.619	9.4	20.9
1 26	5 57.41	+27 35.0	2.062	2.912	11.7	21.6	1 26	5 54.20	+27 8.4	1.787	2.638	13.1	21.1
<b>296746</b>	2009 <i>UV</i>		12 26.9 87°55	1.3°/26.9	18		<b>8482</b>	Wayneolm		12 26.9 98°43	0.5°/26.9	18	
11 17	6 51.24	+20 55.8	2.207	2.969	14.1	20.4	11 17	6 48.88	+20 50.7	2.617	3.374	12.3	18.8
11 27	6 47.01	+20 31.3	2.120	2.974	11.3	20.2	11 27	6 44.81	+20 56.5	2.530	3.381	9.8	18.6
12 7	6 40.46	+20 8.2	2.055	2.979	7.9	20.0	12 7	6 38.79	+21 5.2	2.465	3.388	6.8	18.4
12 17	6 32.15	+19 46.6	2.016	2.983	4.2	19.8	12 17	6 31.28	+21 15.6	2.427	3.395	3.5	18.2
12 27	6 22.92	+19 26.4	2.006	2.988	1.3	19.6	12 27	6 22.98	+21 26.8	2.420	3.403	0.5	18.0
1 6	6 13.80	+19 7.9	2.026	2.992	4.2	19.8	1 6	6 14.73	+21 37.8	2.442	3.410	3.5	18.2
1 16	6 5.74	+18 51.9	2.076	2.997	7.9	20.0	1 16	6 7.32	+21 48.0	2.495	3.417	6.8	18.5
1 26	5 59.55	+18 39.0	2.151	3.002	11.2	20.2	1 26	6 1.46	+21 57.6	2.575	3.424	9.6	18.7
<b>445701</b>	2011 <i>UA</i> <sub>191</sub>		12 26.9 79°58	1.1°/26.8	18		<b>307937</b>	2004 <i>ET</i> <sub>82</sub>		12 26.9 322°16	0.8°/26.9	17	
11 17	6 53.59	+24 42.6	1.838	2.611	16.2	21.8	11 17	6 49.69	+24 59.6	1.564	2.356	17.7	20.9
11 27	6 49.52	+25 7.5	1.760	2.620	12.9	21.6	11 27	6 47.31	+25 2.0	1.465	2.337	14.3	20.6
12 7	6 42.58	+25 34.8	1.702	2.629	9.0	21.4	12 7	6 41.64	+25 5.4	1.385	2.318	10.1	20.3
12 17	6 33.35	+26 1.2	1.669	2.638	4.7	21.1	12 17	6 33.16	+25 7.8	1.330	2.300	5.3	20.0
12 27	6 22.91	+26 23.6	1.665	2.647	1.1	20.9	12 27	6 22.96	+25 6.5	1.300	2.283	0.8	19.6
1 6	6 12.55	+26 39.8	1.690	2.656	4.8	21.2	1 6	6 12.53	+25 0.1	1.297	2.266	5.5	19.9
1 16	6 3.54	+26 49.5	1.742	2.665	9.0	21.4	1 16	6 3.44	+24 49.1	1.320	2.250	10.7	20.1
1 26	5 56.89	+26 53.7	1.820	2.674	12.7	21.7	1 26	5 57.05	+24 35.5	1.366	2.235	15.2	20.4
<b>198903</b>	2005 <i>UA</i> <sub>33</sub>		12 26.9 295°08	1.6°/26.9	18		<b>108632</b>	2001 <i>NL</i> <sub>2</sub>		12 26.9 58°17	1.6°/27.1	18	
11 17	6 51.99	+20 7.6	1.531	2.317	18.3	20.9	11 17	6 48.78	+18 3.8	2.370	3.129	13.4	19.8
11 27	6 49.06	+19 55.1	1.433	2.301	14.9	20.6	11 27	6 44.95	+18 0.5	2.280	3.131	10.7	19.6
12 7	6 42.82	+19 47.1	1.355	2.285	10.6	20.3	12 7	6 39.01	+18 1.8	2.212	3.134	7.6	19.4
12 17	6 33.74	+19 43.0	1.300	2.269	5.7	20.0	12 17	6 31.44	+18 7.2	2.171	3.137	4.1	19.2
12 27	6 22.90	+19 42.0	1.271	2.253	1.6	19.7	12 27	6 22.98	+18 16.2	2.159	3.140	1.6	19.1
1 6	6 11.83	+19 43.3	1.270	2.238	5.8	19.9	1 6	6 14.55	+18 27.9	2.177	3.143	4.1	19.2
1 16	6 2.11	+19 46.6	1.294	2.223	11.0	20.2	1 16	6 7.01	+18 41.6	2.224	3.146	7.5	19.5
1 26	5 55.07	+19 52.3	1.342	2.208	15.7	20.4	1 26	6 1.14	+18 56.8	2.298	3.149	10.6	19.7
<b>162434</b>	2000 <i>FA</i> <sub>34</sub>		12 26.9 236°02	6.5°/27.7	18		<b>7885</b>	Levine		12 26.9 259°46	8.7°/28.8	18	
11 17	6 47.3												



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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>275072</b>	2009 <i>UB</i> <sub>138</sub>		12 26.9	16°00	3°2/27.2	17	<b>491594</b>	2012 <i>SM</i> <sub>55</sub>		12 26.9	77°41	1°0/26.9	16
11 17	6 47.16	+15 56.8	1.582	2.369	17.8	20.6	11 17	6 56.62	+20 39.3	1.575	2.350	18.4	21.7
11 27	6 44.64	+15 36.1	1.510	2.376	14.3	20.4	11 27	6 52.06	+20 38.3	1.511	2.372	14.6	21.5
12 7	6 39.28	+15 23.4	1.458	2.385	10.3	20.2	12 7	6 44.36	+20 42.0	1.467	2.395	10.2	21.3
12 17	6 31.71	+15 19.4	1.430	2.394	6.0	19.9	12 17	6 34.27	+20 48.7	1.448	2.417	5.3	21.1
12 27	6 22.99	+15 24.2	1.427	2.405	3.2	19.8	12 27	6 23.04	+20 56.6	1.456	2.439	1.0	20.8
1 6	6 14.41	+15 36.9	1.452	2.417	5.8	20.0	1 6	6 12.14	+21 4.3	1.492	2.461	5.1	21.2
1 16	6 7.19	+15 56.3	1.502	2.429	9.9	20.3	1 16	6 2.92	+21 11.6	1.556	2.482	9.7	21.5
1 26	6 2.29	+16 20.5	1.577	2.443	13.7	20.5	1 26	5 56.36	+21 18.9	1.645	2.503	13.6	21.8
<b>87367</b>	2000 <i>QK</i> <sub>47</sub>		12 26.9	62°87	2°9/27.3	18	<b>76231</b>	2000 <i>ET</i> <sub>75</sub>		12 26.9	17°08	11°5/26.3	18
11 17	6 56.16	+15 42.7	1.472	2.247	19.5	19.9	11 17	6 51.40	+41 20.0	1.062	1.873	23.2	17.1
11 27	6 51.66	+15 37.7	1.418	2.277	15.6	19.7	11 27	6 50.83	+43 9.8	1.017	1.885	19.5	16.9
12 7	6 44.01	+15 42.3	1.383	2.306	11.0	19.5	12 7	6 45.16	+44 46.7	0.989	1.900	15.8	16.7
12 17	6 34.02	+15 56.1	1.371	2.336	6.2	19.3	12 17	6 35.21	+45 57.2	0.980	1.917	12.7	16.6
12 27	6 22.98	+16 17.4	1.387	2.366	2.9	19.2	12 27	6 23.02	+46 30.1	0.992	1.935	11.5	16.6
1 6	6 12.36	+16 44.2	1.430	2.395	5.8	19.4	1 6	6 11.32	+46 22.0	1.026	1.956	12.9	16.8
1 16	6 3.49	+17 14.4	1.500	2.425	10.1	19.8	1 16	6 2.53	+45 38.7	1.081	1.979	15.8	17.0
1 26	5 57.32	+17 46.3	1.595	2.454	14.0	20.1	1 26	5 58.17	+44 31.4	1.154	2.003	18.9	17.3
<b>480167</b>	2015 <i>FP</i> <sub>302</sub>		12 26.9	222°55	3°5/27.4	18	<b>116785</b>	2004 <i>EJ</i> <sub>34</sub>		12 26.9	220°60	0°7/26.9	18
11 17	6 54.00	+13 38.9	1.699	2.462	17.7	21.9	11 17	6 52.67	+20 57.3	2.574	3.322	12.7	21.2
11 27	6 50.12	+13 37.2	1.606	2.457	14.4	21.7	11 27	6 48.00	+20 56.7	2.465	3.312	10.2	21.0
12 7	6 43.23	+13 46.3	1.533	2.451	10.6	21.4	12 7	6 41.17	+20 58.6	2.380	3.301	7.1	20.8
12 17	6 33.85	+14 6.7	1.484	2.445	6.3	21.2	12 17	6 32.61	+21 2.0	2.323	3.290	3.7	20.6
12 27	6 22.98	+14 37.7	1.462	2.439	3.5	21.0	12 27	6 23.06	+21 5.9	2.295	3.278	0.7	20.3
1 6	6 11.96	+15 17.2	1.469	2.432	6.0	21.1	1 6	6 13.41	+21 9.5	2.299	3.265	3.8	20.5
1 16	6 2.15	+16 2.5	1.503	2.425	10.3	21.4	1 16	6 4.58	+21 12.6	2.333	3.252	7.3	20.7
1 26	5 54.74	+16 51.0	1.562	2.417	14.4	21.6	1 26	5 57.38	+21 15.6	2.394	3.238	10.5	20.9
<b>299060</b>	2005 <i>CH</i> <sub>29</sub>		12 26.9	154°91	2°8/26.7	18	<b>161620</b>	2005 <i>WV</i> <sub>57</sub>		12 26.9	48°93	2°5/27.2	18
11 17	6 56.62	+30 31.6	2.124	2.881	14.8	21.5	11 17	6 50.57	+16 28.7	1.827	2.597	16.4	20.3
11 27	6 51.69	+30 56.9	2.038	2.887	11.9	21.3	11 27	6 46.89	+16 20.1	1.754	2.611	13.1	20.1
12 7	6 43.98	+31 20.0	1.973	2.893	8.5	21.1	12 7	6 40.62	+16 18.5	1.702	2.625	9.3	19.9
12 17	6 34.07	+31 36.7	1.935	2.898	4.9	20.9	12 17	6 32.35	+16 24.0	1.675	2.640	5.3	19.7
12 27	6 22.99	+31 43.9	1.926	2.902	2.8	20.7	12 27	6 23.06	+16 35.8	1.675	2.654	2.5	19.5
1 6	6 11.99	+31 39.9	1.946	2.906	5.1	20.9	1 6	6 13.93	+16 52.7	1.704	2.669	5.1	19.7
1 16	6 2.27	+31 25.6	1.996	2.910	8.7	21.1	1 16	6 6.04	+17 13.5	1.761	2.685	8.9	20.0
1 26	5 54.82	+31 3.8	2.072	2.913	11.9	21.3	1 26	6 0.30	+17 37.0	1.843	2.700	12.5	20.2
<b>255280</b>	2005 <i>VU</i> <sub>65</sub>		12 26.9	201°28	0°8/27.0	17	<b>108359</b>	2001 <i>KA</i> <sub>13</sub>		12 26.9	140°42	0°0/26.9	18
11 17	6 51.24	+20 23.7	2.248	3.008	14.0	21.4	11 17	6 54.01	+21 40.6	2.210	2.966	14.3	20.7
11 27	6 47.12	+20 27.9	2.153	3.006	11.2	21.2	11 27	6 49.32	+22 2.6	2.124	2.975	11.4	20.5
12 7	6 40.67	+20 36.0	2.081	3.005	7.8	21.0	12 7	6 42.19	+22 28.4	2.061	2.984	7.9	20.3
12 17	6 32.36	+20 46.6	2.034	3.003	4.1	20.8	12 17	6 33.14	+22 55.9	2.024	2.993	4.1	20.1
12 27	6 23.02	+20 58.6	2.018	3.000	0.8	20.5	12 27	6 23.07	+23 22.7	2.017	3.001	0.0	19.7
1 6	6 13.65	+21 10.7	2.031	2.998	4.1	20.8	1 6	6 13.03	+23 46.9	2.041	3.008	4.1	20.1
1 16	6 5.25	+21 22.3	2.073	2.996	7.9	21.0	1 16	6 4.05	+24 7.4	2.094	3.015	7.9	20.4
1 26	5 58.69	+21 33.6	2.142	2.993	11.2	21.2	1 26	5 57.03	+24 24.5	2.174	3.022	11.2	20.6
<b>155434</b>	1997 <i>VQ</i> <sub>8</sub>		12 26.9	67°67	4°6/26.5	18	<b>332584</b>	2008 <i>SQ</i> <sub>128</sub>		12 26.9	158°13	7°8/27.4	18
11 17	6 58.97	+31 24.2	1.494	2.273	19.0	19.8	11 17	6 48.55	- 3 38.5	2.953	3.625	12.7	21.2
11 27	6 54.62	+32 21.0	1.433	2.294	15.3	19.6	11 27	6 44.19	- 4 49.8	2.870	3.631	11.2	21.1
12 7	6 46.54	+33 15.6	1.392	2.315	11.0	19.4	12 7	6 38.20	- 5 49.4	2.809	3.636	9.6	21.0
12 17	6 35.51	+34 0.8	1.375	2.336	6.8	19.2	12 17	6 30.97	- 6 33.5	2.773	3.641	8.3	20.9
12 27	6 22.99	+34 30.1	1.385	2.357	4.6	19.2	12 27	6 23.10	- 6 59.5	2.763	3.646	7.8	20.9
1 6	6 10.81	+34 40.6	1.422	2.378	7.1	19.4	1 6	6 15.25	- 7 6.3	2.781	3.650	8.3	20.9
1 16	6 0.63	+34 33.9	1.485	2.399	11.0	19.6	1 16	6 8.07	- 6 54.5	2.825	3.654	9.5	21.0
1 26	5 53.65	+34 14.9	1.572	2.420	14.7	19.9	1 26	6 2.16	- 6 26.7	2.894	3.657	11.0	21.1
<b>482628</b>	2013 <i>AM</i> <sub>69</sub>		12 26.9	11°80	4°9/28.2	18	<b>200015</b>	2007 <i>MN</i> <sub>5</sub>		12 26.9	141°86	0°5/27.0	17
11 17	6 49.58	+ 8 47.9	1.410	2.187	20.1	20.7	11 17	6 50.05	+20 35.4	2.820	3.569	11.7	21.4
11 27	6 47.03	+ 9 9.7	1.334	2.189	16.5	20.5	11 27	6 45.58	+20 43.5	2.731	3.578	9.3	21.3
12 7	6 41.30	+ 9 51.4	1.275	2.192	12.4	20.3	12 7	6 39.27	+20 54.3	2.665	3.586	6.5	21.1
12 17	6 32.92	+10 53.8	1.239	2.196	7.9	20.0	12 17	6 31.55	+21 7.0	2.626	3.594	3.4	20.9
12 27	6 23.03	+12 14.7	1.228	2.201	4.9	19.9	12 27	6 23.09	+21 20.2	2.619	3.601	0.5	20.7
1 6	6 13.09	+13 48.7	1.244	2.207	6.9	20.0	1 6	6 14.67	+21 33.2	2.642	3.609	3.3	20.9
1 16	6 4.56	+15 28.9	1.287	2.214	11.2	20.3	1 16	6 7.04	+21 45.4	2.696	3.616	6.4	21.1
1 26	5 58.68	+17 8.9	1.353	2.221	15.4	20.5	1 26	6 0.85	+21 56.7	2.778	3.622	9.1	21.3
<b>189741</b>	2001 <i>XG</i> <sub>97</sub>		12 26.9	55°57	1°7/26.8	18	<b>403998</b>	2012 <i>BD</i> <sub>132</sub>		12 26.9	343°12	4°9/26.7	17
11 17	6 56.97	+26 5.7	1.364	2.154	20.0	20.0	11 17	6 51.50	+33 50.9	1.557	2.345	18.0	20.2
11 27	6 52.96	+26 25.0	1.306	2.176	15.9	19.8	11 27	6 49.00	+34 21.6	1.470	2.336	14.7	20.0
12 7	6 45.30	+26 45.1	1.268	2.200	11.0	19.6	12 7	6 42.93	+34 47.5	1.403	2.327	10.9	19.8
12 17	6 34.82	+27 1.9	1.253	2.223	5.8	19.4	12 17	6 33.87	+35 2.7	1.359	2.319	7.0	19.5
12 27	6 23.02	+27 11.5	1.264	2.247	1.7	19.2	12 27	6 23.07	+35 1.9	1.340	2.312	5.0	19.4
1 6	6 11.68	+27 12.3	1.303	2.270	5.8	19.5	1 6	6 12.25	+34 42.9	1.348	2.305	7.2	19.5
1 16	6 2.35	+27 5.4	1.367	2.294	10.6	19.9	1 16	6 3.10	+34 7.8	1.381	2.300	11.3	19.7
1 26	5 56.16	+26 53.8	1.455	2.318	14.8	20.2	1 26	5 56.93	+33 21.6	1.437	2.296	15.2	19.9
<b>446902</b>	2002 <i>QA</i> <sub>115</sub>		12 26.9	122°45	2°0/27.1	18	<b>335889</b>	2007 <i>RF</i> <sub>190</sub>		12 26.			

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>85350</b>	1995 UN <sub>13</sub>		12 26.9 101°23	1°0/26.8 18			<b>15841</b>	Yamaguchi		12 26.9 262°86	1°3/26.9 18		
11 17	6 52.65	+25 27.9	2.137	2.902	14.5	20.1	11 17	6 54.35	+29 28.4	2.888	3.631	11.6	20.2
11 27	6 48.38	+25 41.2	2.053	2.909	11.5	19.9	11 27	6 49.23	+29 16.0	2.764	3.607	9.3	20.0
12 7	6 41.60	+25 55.2	1.991	2.917	8.0	19.7	12 7	6 41.98	+29 0.0	2.664	3.582	6.6	19.8
12 17	6 32.86	+26 7.5	1.955	2.924	4.2	19.5	12 17	6 33.05	+28 38.5	2.592	3.557	3.6	19.6
12 27	6 23.09	+26 15.9	1.948	2.931	1.0	19.2	12 27	6 23.14	+28 10.3	2.551	3.532	1.3	19.4
1 6	6 13.39	+26 19.2	1.971	2.938	4.3	19.5	1 6	6 13.15	+27 35.5	2.541	3.506	3.7	19.5
1 16	6 4.84	+26 17.5	2.023	2.945	8.1	19.7	1 16	6 3.95	+26 55.2	2.563	3.479	6.9	19.7
1 26	5 58.33	+26 12.1	2.101	2.952	11.4	20.0	1 26	5 56.36	+26 12.0	2.613	3.452	9.9	19.8
<b>337716</b>	2001 UH <sub>38</sub>		12 26.9 42°60	9°3/27.5 18			<b>195714</b>	2002 PM <sub>53</sub>		12 26.9 151°47	4°6/26.7 18		
11 17	6 51.08	+ 5 23.6	1.429	2.192	20.5	20.7	11 17	6 55.80	+38 40.8	2.730	3.465	12.3	20.8
11 27	6 47.90	+ 4 2.4	1.363	2.201	17.3	20.5	11 27	6 50.59	+39 10.6	2.643	3.471	10.2	20.7
12 7	6 41.66	+ 2 56.2	1.314	2.210	13.8	20.3	12 7	6 42.99	+39 33.9	2.578	3.476	7.8	20.5
12 17	6 33.00	+ 2 11.2	1.287	2.219	10.7	20.2	12 17	6 33.54	+39 46.5	2.540	3.481	5.6	20.4
12 27	6 23.09	+ 1 52.0	1.285	2.229	9.3	20.1	12 27	6 23.14	+39 45.4	2.532	3.486	4.6	20.3
1 6	6 13.35	+ 1 59.6	1.307	2.240	10.4	20.2	1 6	6 12.84	+39 29.5	2.553	3.491	5.7	20.4
1 16	6 5.11	+ 2 31.7	1.353	2.250	13.3	20.4	1 16	6 3.66	+39 0.2	2.603	3.495	7.9	20.6
1 26	5 59.42	+ 3 22.7	1.421	2.261	16.5	20.6	1 26	5 56.44	+38 20.7	2.680	3.499	10.2	20.7
<b>333545</b>	2005 UW <sub>43</sub>		12 26.9 111°27	1°1/26.9 18			<b>340268</b>	2006 BY <sub>178</sub>		12 26.9 303°14	2°0/26.8 18		
11 17	6 57.22	+21 0.8	1.738	2.505	17.2	21.7	11 17	6 53.43	+26 50.3	1.567	2.353	18.0	21.0
11 27	6 52.33	+20 50.2	1.664	2.521	13.7	21.5	11 27	6 50.34	+27 11.4	1.475	2.343	14.5	20.7
12 7	6 44.49	+20 42.9	1.611	2.536	9.6	21.3	12 7	6 43.80	+27 33.6	1.403	2.333	10.3	20.4
12 17	6 34.36	+20 37.8	1.583	2.551	5.0	21.1	12 17	6 34.34	+27 53.2	1.354	2.323	5.6	20.1
12 27	6 23.09	+20 33.6	1.584	2.566	1.1	20.8	12 27	6 23.13	+28 6.0	1.332	2.313	2.0	19.9
1 6	6 12.06	+20 29.7	1.613	2.580	4.9	21.1	1 6	6 11.77	+28 9.5	1.337	2.304	5.8	20.1
1 16	6 2.54	+20 26.5	1.671	2.594	9.3	21.4	1 16	6 1.88	+28 3.8	1.368	2.294	10.7	20.4
1 26	5 55.51	+20 24.8	1.754	2.607	13.2	21.7	1 26	5 54.83	+27 51.5	1.423	2.286	15.1	20.6
<b>464469</b>	2016 BE <sub>47</sub>		12 26.9 44°82	3°0/26.8 17			<b>246668</b>	2008 YS <sub>117</sub>		12 26.9 220°79	1°3/27.1 18		
11 17	6 53.17	+32 7.9	2.185	2.947	14.3	20.8	11 17	6 53.17	+19 15.1	2.047	2.808	15.1	21.0
11 27	6 48.89	+32 19.3	2.100	2.952	11.5	20.6	11 27	6 48.97	+19 13.6	1.949	2.802	12.2	20.8
12 7	6 41.99	+32 26.5	2.037	2.956	8.3	20.4	12 7	6 42.17	+19 16.8	1.873	2.796	8.6	20.6
12 17	6 33.07	+32 26.2	1.999	2.961	4.9	20.2	12 17	6 33.27	+19 23.8	1.822	2.789	4.6	20.3
12 27	6 23.10	+32 15.9	1.990	2.965	3.0	20.1	12 27	6 23.15	+19 33.5	1.800	2.782	1.3	20.1
1 6	6 13.27	+31 55.0	2.011	2.970	5.0	20.2	1 6	6 12.93	+19 44.8	1.808	2.775	4.6	20.3
1 16	6 4.67	+31 24.9	2.060	2.975	8.3	20.4	1 16	6 3.77	+19 57.0	1.844	2.767	8.7	20.5
1 26	5 58.22	+30 48.9	2.135	2.981	11.5	20.6	1 26	5 56.65	+20 9.9	1.907	2.759	12.4	20.7
<b>3319</b>	Kibi		12 26.9 49°32	0°2/26.9 18			<b>231133</b>	2005 TW <sub>40</sub>		12 26.9 299°67	1°5/27.1 18		
11 17	6 50.74	+23 10.3	2.099	2.868	14.6	16.7	11 17	6 52.02	+18 11.0	1.602	2.382	17.9	20.2
11 27	6 46.77	+23 3.5	2.022	2.880	11.6	16.5	11 27	6 48.88	+18 24.0	1.510	2.374	14.5	20.0
12 7	6 40.40	+22 57.9	1.966	2.893	8.0	16.3	12 7	6 42.60	+18 45.7	1.438	2.366	10.3	19.7
12 17	6 32.21	+22 52.4	1.937	2.906	4.1	16.1	12 17	6 33.67	+19 14.9	1.390	2.359	5.5	19.4
12 27	6 23.12	+22 45.9	1.936	2.920	0.2	15.8	12 27	6 23.14	+19 49.3	1.369	2.351	1.5	19.1
1 6	6 14.18	+22 38.2	1.965	2.933	4.1	16.2	1 6	6 12.44	+20 26.0	1.376	2.344	5.4	19.4
1 16	6 6.40	+22 29.6	2.022	2.947	7.9	16.4	1 16	6 3.02	+21 2.6	1.409	2.337	10.3	19.6
1 26	6 0.59	+22 21.0	2.106	2.961	11.2	16.7	1 26	5 56.15	+21 38.0	1.467	2.330	14.7	19.9
<b>147076</b>	2002 SP <sub>21</sub>		12 26.9 164°97	1°5/26.8 18			<b>72816</b>	2001 GJ <sub>9</sub>		12 26.9 148°15	3°5/27.3 17		
11 17	6 57.92	+25 50.2	1.796	2.562	16.7	21.6	11 17	6 49.00	+12 26.0	2.522	3.265	13.1	19.7
11 27	6 53.19	+26 12.0	1.710	2.567	13.4	21.4	11 27	6 44.94	+12 2.2	2.432	3.269	10.6	19.6
12 7	6 45.33	+26 35.2	1.645	2.571	9.4	21.2	12 7	6 38.94	+11 45.0	2.364	3.273	7.9	19.4
12 17	6 34.92	+26 56.3	1.606	2.574	5.0	20.9	12 17	6 31.45	+11 35.5	2.323	3.276	5.1	19.2
12 27	6 23.10	+27 11.6	1.595	2.577	1.5	20.7	12 27	6 23.17	+11 34.2	2.310	3.279	3.5	19.1
1 6	6 11.31	+27 19.0	1.613	2.579	5.2	20.9	1 6	6 14.91	+11 40.9	2.328	3.282	4.9	19.2
1 16	6 0.95	+27 18.7	1.659	2.580	9.6	21.2	1 16	6 7.48	+11 54.9	2.375	3.285	7.6	19.4
1 26	5 53.18	+27 12.7	1.731	2.581	13.5	21.4	1 26	6 1.57	+12 15.1	2.448	3.288	10.4	19.6
<b>431758</b>	2008 GM <sub>119</sub>		12 26.9 149°01	0°1/26.9 18			<b>194933</b>	2002 AP <sub>141</sub>		12 26.9 351°56	0°2/26.9 18		
11 17	6 57.84	+21 57.7	2.153	2.903	14.8	22.4	11 17	6 52.84	+23 2.1	1.515	2.303	18.4	20.2
11 27	6 52.36	+22 12.3	2.068	2.916	11.8	22.2	11 27	6 49.66	+22 57.5	1.432	2.301	14.8	19.9
12 7	6 44.31	+22 30.1	2.006	2.927	8.2	22.0	12 7	6 43.15	+22 55.4	1.368	2.300	10.4	19.7
12 17	6 34.25	+22 49.0	1.970	2.938	4.2	21.8	12 17	6 33.91	+22 54.0	1.328	2.298	5.4	19.4
12 27	6 23.11	+23 6.5	1.965	2.948	0.1	21.4	12 27	6 23.15	+22 51.5	1.314	2.297	0.2	19.0
1 6	6 12.06	+23 21.2	1.990	2.957	4.2	21.8	1 6	6 12.41	+22 46.9	1.328	2.297	5.4	19.4
1 16	6 2.20	+23 32.5	2.046	2.965	8.1	22.1	1 16	6 3.21	+22 40.5	1.367	2.297	10.4	19.6
1 26	5 54.44	+23 41.2	2.128	2.972	11.6	22.3	1 26	5 56.77	+22 33.9	1.431	2.297	14.8	19.9
<b>213895</b>	2003 TF <sub>6</sub>		12 26.9 143°03	0°2/26.9 18			<b>31188</b>	1997 YM <sub>7</sub>		12 26.9 73°15	1°8/27.3 18		
11 17	6 59.64	+20 55.6	1.907	2.661	16.3	21.1	11 17	6 52.62	+16 17.8	1.935	2.696	15.9	18.3
11 27	6 54.14	+21 18.7	1.826	2.676	13.0	20.9	11 27	6 48.40	+16 36.5	1.862	2.714	12.7	18.1
12 7	6 45.73	+21 46.9	1.767	2.689	9.1	20.7	12 7	6 41.63	+17 3.6	1.811	2.733	9.0	17.9
12 17	6 35.04	+22 17.6	1.734	2.702	4.7	20.5	12 17	6 32.90	+17 37.7	1.785	2.751	4.9	17.7
12 27	6 23.12	+22 47.5	1.730	2.714	0.2	20.1	12 27	6 23.16	+18 16.6	1.788	2.769	1.8	17.5
1 6	6 11.29	+23 14.4	1.757	2.724	4.7	20.5	1 6	6 13.56	+18 57.8	1.820	2.787	4.6	17.7
1 16	6 0.82	+23 37.0	1.814	2.734	8.9	20.8	1 16	6 5.16	+19 39.0	1.882	2.805	8.5	18.0
1 26	5 52.74	+23 55.8	1.896	2.743	12.7	21.0	1 26	5 58.84	+20 19.0	1.969	2.823	11.9	18.2
<b>212556</b>	2006 SV <sub>49</sub>		12 26.9 139°79	5°8/27.5 18			<b>46368</b>	2001 VR <sub>36</sub>		12 26.9 69°15	1°9/26.7 18		
11 17	6 51.27	+ 7 18.8	2.205	2.938	15.0								

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>418733</b>	2008 <i>UX</i> <sub>124</sub>	12 26.9	65°83	0°8/26.9	16		<b>77011</b>	2001 <i>CT</i> <sub>11</sub>	12 26.9	3°67	1°2/27.1	18	
11 17	6 51.12	+22 43.3	2.385	3.144	13.3	20.9	11 17	6 53.06	+18 4.0	1.342	2.133	20.2	19.2
11 27	6 46.78	+22 15.2	2.296	3.149	10.6	20.8	11 27	6 50.26	+18 28.7	1.262	2.133	16.3	18.9
12 7	6 40.28	+21 47.1	2.229	3.153	7.4	20.6	12 7	6 43.86	+19 4.7	1.202	2.133	11.5	18.7
12 17	6 32.14	+21 18.6	2.190	3.158	3.8	20.4	12 17	6 34.42	+19 50.1	1.164	2.133	6.1	18.3
12 27	6 23.17	+20 49.9	2.180	3.162	0.8	20.1	12 27	6 23.18	+20 40.9	1.151	2.134	1.2	18.0
1 6	6 14.32	+20 21.6	2.200	3.167	3.9	20.4	1 6	6 11.85	+21 32.7	1.165	2.135	5.9	18.3
1 16	6 6.46	+19 54.8	2.250	3.172	7.4	20.6	1 16	6 2.15	+22 21.8	1.205	2.136	11.4	18.7
1 26	6 0.36	+19 30.8	2.327	3.176	10.5	20.8	1 26	5 55.45	+23 6.7	1.268	2.138	16.1	18.9
<b>220166</b>	2002 <i>TF</i> <sub>274</sub>	12 26.9	90°34	2°4/27.0	18		<b>2493</b>	Elmer	12 26.9	80°61	4°4/27.3	18	
11 17	6 56.73	+18 51.4	1.540	2.314	18.7	20.1	11 17	6 51.97	+12 15.4	1.988	2.740	15.8	17.2
11 27	6 52.26	+18 24.5	1.471	2.330	15.0	19.9	11 27	6 47.67	+11 39.1	1.916	2.758	12.9	17.1
12 7	6 44.60	+18 2.3	1.421	2.347	10.6	19.7	12 7	6 41.00	+11 11.1	1.865	2.775	9.5	16.9
12 17	6 34.48	+17 45.1	1.396	2.362	5.8	19.5	12 17	6 32.54	+10 52.9	1.839	2.793	6.2	16.7
12 27	6 23.16	+17 32.8	1.397	2.378	2.4	19.3	12 27	6 23.21	+10 45.5	1.842	2.810	4.4	16.7
1 6	6 12.12	+17 25.3	1.427	2.393	5.7	19.5	1 6	6 14.06	+10 48.9	1.873	2.827	6.0	16.8
1 16	6 2.74	+17 22.7	1.484	2.408	10.2	19.8	1 16	6 6.07	+11 2.0	1.933	2.844	9.1	17.0
1 26	5 56.06	+17 25.1	1.566	2.423	14.3	20.1	1 26	6 0.05	+11 23.2	2.018	2.861	12.1	17.2
<b>333052</b>	2011 <i>SQ</i> <sub>185</sub>	12 26.9	112°51	0°3/26.9	18		<b>405750</b>	2005 <i>YJ</i> <sub>109</sub>	12 26.9	88°25	0°6/27.0	18	
11 17	6 55.41	+21 22.3	2.124	2.880	14.8	21.9	11 17	6 51.28	+21 21.1	2.174	2.938	14.3	21.6
11 27	6 50.40	+21 35.6	2.048	2.899	11.8	21.7	11 27	6 47.19	+21 20.0	2.090	2.945	11.4	21.4
12 7	6 42.90	+21 52.4	1.995	2.918	8.2	21.5	12 7	6 40.73	+21 21.6	2.027	2.952	8.0	21.2
12 17	6 33.51	+22 10.7	1.967	2.936	4.2	21.3	12 17	6 32.45	+21 24.9	1.991	2.959	4.1	21.0
12 27	6 23.18	+22 28.6	1.970	2.953	0.3	21.0	12 27	6 23.22	+21 28.7	1.983	2.966	0.6	20.8
1 6	6 12.99	+22 44.5	2.003	2.970	4.1	21.3	1 6	6 14.06	+21 32.3	2.006	2.973	4.1	21.0
1 16	6 4.00	+22 57.9	2.065	2.987	8.0	21.6	1 16	6 5.96	+21 35.3	2.057	2.981	7.9	21.3
1 26	5 57.06	+23 9.1	2.154	3.003	11.3	21.9	1 26	5 59.76	+21 38.3	2.135	2.988	11.2	21.5
<b>40070</b>	1998 <i>KG</i> <sub>58</sub>	12 26.9	152°39	7°2/28.0	18		<b>132304</b>	2002 <i>GH</i> <sub>9</sub>	12 26.9	182°20	0°0/26.9	18	
11 17	6 51.80	+ 3 18.6	2.106	2.827	15.9	19.6	11 17	6 54.64	+22 6.9	2.138	2.896	14.7	20.9
11 27	6 47.50	+ 2 37.6	2.023	2.833	13.5	19.5	11 27	6 50.03	+22 22.1	2.044	2.896	11.7	20.7
12 7	6 40.91	+ 2 10.1	1.960	2.839	10.8	19.3	12 7	6 42.85	+22 40.8	1.973	2.897	8.2	20.5
12 17	6 32.53	+ 1 59.3	1.921	2.844	8.4	19.2	12 17	6 33.61	+23 0.8	1.928	2.896	4.2	20.2
12 27	6 23.19	+ 2 7.4	1.910	2.849	7.2	19.1	12 27	6 23.21	+23 20.0	1.912	2.896	0.0	19.8
1 6	6 13.88	+ 2 34.0	1.926	2.853	8.0	19.2	1 6	6 12.77	+23 36.7	1.927	2.895	4.3	20.2
1 16	6 5.57	+ 3 17.2	1.970	2.857	10.3	19.3	1 16	6 3.41	+23 50.0	1.971	2.893	8.3	20.5
1 26	5 59.08	+ 4 13.0	2.039	2.861	12.9	19.5	1 26	5 56.08	+24 0.6	2.042	2.891	11.8	20.7
<b>305633</b>	2009 <i>BY</i> <sub>22</sub>	12 26.9	330°28	1°9/26.7	17		<b>141477</b>	2002 <i>CP</i> <sub>245</sub>	12 26.9	131°15	0°2/26.9	18	
11 17	6 51.70	+26 0.8	1.559	2.348	17.9	20.9	11 17	6 59.22	+23 8.0	1.686	2.453	17.7	21.2
11 27	6 48.92	+26 27.3	1.470	2.340	14.4	20.7	11 27	6 54.20	+23 15.6	1.609	2.466	14.1	21.0
12 7	6 42.79	+26 56.1	1.401	2.332	10.2	20.4	12 7	6 45.98	+23 26.0	1.553	2.479	9.8	20.8
12 17	6 33.82	+27 23.6	1.355	2.325	5.5	20.1	12 17	6 35.25	+23 36.5	1.522	2.491	5.0	20.5
12 27	6 23.18	+27 45.6	1.336	2.318	1.9	19.9	12 27	6 23.21	+23 44.4	1.519	2.503	0.2	20.1
1 6	6 12.40	+27 59.1	1.344	2.311	5.7	20.1	1 6	6 11.34	+23 48.4	1.545	2.513	5.0	20.6
1 16	6 3.08	+28 3.6	1.378	2.306	10.6	20.4	1 16	6 1.06	+23 48.6	1.600	2.523	9.7	20.9
1 26	5 56.52	+28 1.1	1.436	2.300	14.9	20.6	1 26	5 53.47	+23 46.5	1.680	2.533	13.7	21.1
<b>347131</b>	2010 <i>KB</i> <sub>62</sub>	12 26.9	62°60	1°3/26.5	18		<b>291888</b>	2006 <i>PC</i> <sub>29</sub>	12 26.9	104°11	1°5/27.2	18	
11 17	6 56.14	+20 26.5	1.785	2.551	16.8	20.1	11 17	6 58.69	+17 43.0	1.623	2.387	18.3	20.7
11 27	6 51.97	+21 48.5	1.696	2.553	13.5	19.9	11 27	6 53.69	+17 59.5	1.555	2.409	14.7	20.5
12 7	6 44.69	+23 21.8	1.628	2.554	9.5	19.6	12 7	6 45.57	+18 24.3	1.507	2.430	10.3	20.3
12 17	6 34.76	+25 1.4	1.586	2.555	4.9	19.4	12 17	6 35.01	+18 55.5	1.483	2.450	5.5	20.0
12 27	6 23.18	+26 40.3	1.574	2.557	1.3	19.1	12 27	6 23.22	+19 30.3	1.488	2.470	1.5	19.8
1 6	6 11.33	+28 11.6	1.593	2.558	5.3	19.4	1 6	6 11.67	+20 5.7	1.522	2.490	5.2	20.1
1 16	6 0.69	+29 30.6	1.640	2.559	9.8	19.7	1 16	6 1.70	+20 39.8	1.584	2.508	9.7	20.4
1 26	5 52.50	+30 36.2	1.713	2.561	13.7	19.9	1 26	5 54.39	+21 11.8	1.672	2.526	13.7	20.7
<b>405732</b>	2005 <i>YQ</i> <sub>12</sub>	12 26.9	145°59	0°5/26.9	17		<b>523404</b>	2017 <i>DB</i> <sub>116</sub>	12 26.9	326°96	9°0/29.5	18	
11 17	6 51.47	+23 43.6	2.188	2.953	14.2	21.2	11 17	6 50.40	- 2 9.7	1.864	2.577	18.0	20.7
11 27	6 47.47	+23 59.1	2.097	2.954	11.3	21.0	11 27	6 46.87	- 2 26.9	1.776	2.573	15.6	20.6
12 7	6 41.02	+24 16.9	2.029	2.955	7.9	20.7	12 7	6 40.77	- 2 23.0	1.706	2.570	13.0	20.4
12 17	6 32.64	+24 34.8	1.986	2.955	4.1	20.5	12 17	6 32.60	- 1 54.0	1.658	2.567	10.5	20.2
12 27	6 23.19	+24 50.6	1.973	2.956	0.5	20.2	12 27	6 23.23	- 0 57.6	1.635	2.564	9.1	20.1
1 6	6 13.73	+25 2.8	1.989	2.957	4.2	20.5	1 6	6 13.78	+ 0 24.2	1.639	2.561	9.6	20.1
1 16	6 5.31	+25 11.0	2.035	2.958	8.0	20.8	1 16	6 5.34	+ 2 6.6	1.670	2.558	11.7	20.3
1 26	5 58.82	+25 15.9	2.107	2.958	11.4	21.0	1 26	5 58.92	+ 4 2.6	1.726	2.556	14.5	20.4
<b>196853</b>	2003 <i>SF</i> <sub>263</sub>	12 26.9	334°24	4°0/26.3	18		<b>218102</b>	2002 <i>NL</i> <sub>35</sub>	12 26.9	116°74	3°8/27.3	18	
11 17	6 52.20	+31 57.1	2.094	2.861	14.7	19.6	11 17	6 56.71	+14 4.6	1.708	2.466	17.8	21.1
11 27	6 48.54	+32 47.9	2.003	2.856	11.9	19.4	11 27	6 51.91	+13 41.6	1.635	2.482	14.4	20.9
12 7	6 42.07	+33 37.5	1.934	2.852	8.7	19.2	12 7	6 44.22	+13 27.2	1.583	2.498	10.5	20.7
12 17	6 33.30	+34 21.0	1.890	2.849	5.5	19.0	12 17	6 34.29	+13 22.4	1.554	2.514	6.4	20.4
12 27	6 23.19	+34 53.6	1.875	2.845	4.0	18.9	12 27	6 23.23	+13 27.3	1.554	2.529	3.8	20.3
1 6	6 12.97	+35 12.4	1.888	2.842	5.9	19.0	1 6	6 12.38	+13 41.0	1.583	2.543	6.0	20.5
1 16	6 3.92	+35 17.2	1.929	2.839	9.2	19.2	1 16	6 2.95	+14 2.2	1.639	2.556	9.9	20.8
1 26	5 57.09	+35 10.2	1.996	2.836	12.4	19.4	1 26	5 55.95	+14 29.0	1.720	2.570	13.6	21.0
<b>293998</b>	2007 <i>TB</i> <sub>84</sub>	12 26.9	10°39	1°6/27.0	18		<b>351110</b>	2003 <i>UX</i> <sub>352</sub>	12 26.9	41°85	0°7/2		

EPHEMERIDES

12 26.9

12 26.9

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>286784</b>	2002 <i>JN</i> <sub>86</sub>		12 26.9 224°32'	4.8/27.1	18		<b>36750</b>	2000 <i>RR</i> <sub>68</sub>		12 26.9 243°69'	3.8/27.5	18	
11 17	6 49.74	+10 31.4	2.401	3.140	13.7	21.3	11 17	6 52.26	+13 9.5	1.798	2.560	16.9	18.3
11 27	6 45.67	+9 42.7	2.305	3.136	11.3	21.1	11 27	6 48.58	+12 58.6	1.705	2.554	13.8	18.1
12 7	6 39.56	+9 0.4	2.231	3.132	8.6	20.9	12 7	6 42.12	+12 57.5	1.632	2.548	10.2	17.8
12 17	6 31.85	+8 26.7	2.183	3.127	6.0	20.7	12 17	6 33.37	+13 7.3	1.583	2.542	6.3	17.6
12 27	6 23.25	+8 3.7	2.163	3.123	4.8	20.7	12 27	6 23.28	+13 27.8	1.561	2.536	3.8	17.4
1 6	6 14.65	+7 52.2	2.173	3.118	6.0	20.7	1 6	6 13.07	+13 57.7	1.568	2.529	6.0	17.6
1 16	6 6.88	+7 52.1	2.212	3.113	8.6	20.9	1 16	6 3.98	+14 35.0	1.602	2.523	9.9	17.8
1 26	6 0.70	+8 2.3	2.277	3.108	11.4	21.1	1 26	5 57.10	+15 17.4	1.662	2.516	13.8	18.0
<b>430102</b>	2013 <i>SZ</i> <sub>81</sub>		12 26.9 26°65'	0.8/26.9	18		<b>486586</b>	2013 <i>JE</i> <sub>28</sub>		12 26.9 306°67'	2.7/27.4	17	
11 17	6 57.32	+26 51.5	1.325	2.118	20.3	20.7	11 17	6 49.73	+15 12.0	1.819	2.589	16.4	21.5
11 27	6 53.75	+26 31.4	1.248	2.119	16.4	20.4	11 27	6 46.68	+15 16.7	1.719	2.575	13.4	21.3
12 7	6 46.28	+26 8.5	1.188	2.120	11.5	20.1	12 7	6 40.89	+15 30.8	1.639	2.562	9.7	21.0
12 17	6 35.61	+25 40.1	1.152	2.122	6.0	19.8	12 17	6 32.80	+15 54.6	1.584	2.548	5.6	20.8
12 27	6 23.24	+25 4.8	1.141	2.124	0.8	19.5	12 27	6 23.29	+16 26.9	1.555	2.534	2.7	20.6
1 6	6 11.07	+24 23.3	1.156	2.126	6.0	19.8	1 6	6 13.57	+17 5.8	1.556	2.521	5.3	20.7
1 16	6 0.89	+23 39.2	1.198	2.128	11.5	20.1	1 16	6 4.87	+17 48.8	1.583	2.508	9.6	20.9
1 26	5 54.02	+22 56.7	1.262	2.130	16.3	20.4	1 26	5 58.31	+18 33.7	1.636	2.496	13.6	21.1
<b>167952</b>	2005 <i>EY</i> <sub>219</sub>		12 26.9 235°80'	5.3/26.9	18		<b>44139</b>	1998 <i>HZ</i> <sub>92</sub>		12 26.9 138°18'	0.9/26.9	18	
11 17	6 52.26	+11 6.2	2.084	2.830	15.4	20.4	11 17	6 56.62	+24 43.2	1.547	2.327	18.4	19.2
11 27	6 48.08	+10 9.2	1.985	2.821	12.7	20.2	11 27	6 52.66	+24 53.5	1.465	2.330	14.8	19.0
12 7	6 41.47	+9 18.5	1.908	2.812	9.7	20.0	12 7	6 45.26	+25 5.9	1.404	2.333	10.4	18.7
12 17	6 32.93	+8 36.9	1.856	2.802	6.8	19.8	12 17	6 35.05	+25 17.1	1.366	2.336	5.4	18.5
12 27	6 23.26	+8 6.8	1.832	2.793	5.3	19.7	12 27	6 23.29	+25 24.0	1.356	2.339	0.9	18.1
1 6	6 13.53	+7 49.9	1.837	2.783	6.8	19.8	1 6	6 11.58	+25 24.8	1.373	2.341	5.5	18.5
1 16	6 4.78	+7 46.3	1.870	2.772	9.9	19.9	1 16	6 1.51	+25 20.0	1.417	2.344	10.4	18.8
1 26	5 57.90	+7 55.0	1.928	2.761	13.0	20.1	1 26	5 54.30	+25 11.7	1.486	2.346	14.7	19.0
<b>418696</b>	2008 <i>UH</i> <sub>14</sub>		12 26.9 10°64'	5.3/27.4	17		<b>214273</b>	2005 <i>GG</i> <sub>53</sub>		12 26.9 304°04'	7.8/25.4	17	
11 17	6 47.92	+9 14.3	2.144	2.892	14.9	21.5	11 17	6 56.57	+38 6.5	1.740	2.507	17.2	20.3
11 27	6 44.48	+8 33.9	2.057	2.893	12.3	21.3	11 27	6 53.29	+39 35.8	1.650	2.495	14.4	20.1
12 7	6 38.85	+8 2.5	1.992	2.894	9.5	21.1	12 7	6 46.24	+41 2.3	1.580	2.484	11.3	19.9
12 17	6 31.52	+7 42.7	1.951	2.895	6.7	21.0	12 17	6 35.84	+42 17.1	1.534	2.472	8.7	19.7
12 27	6 23.27	+7 35.9	1.938	2.897	5.3	20.9	12 27	6 23.28	+43 10.8	1.514	2.461	7.8	19.6
1 6	6 15.04	+7 42.6	1.953	2.899	6.5	21.0	1 6	6 10.35	+43 37.8	1.520	2.451	9.5	19.7
1 16	6 7.75	+8 1.6	1.996	2.901	9.2	21.1	1 16	5 58.96	+43 37.8	1.552	2.440	12.5	19.8
1 26	6 2.17	+8 30.8	2.064	2.903	12.1	21.3	1 26	5 50.71	+43 15.8	1.607	2.430	15.7	20.0
<b>233522</b>	Moye		12 26.9 140°78'	1.4/27.2	18		<b>47190</b>	1999 <i>TA</i> <sub>171</sub>		12 26.9 347°90'	5.2/27.2	18	
11 17	6 55.33	+18 1.3	1.979	2.736	15.7	21.3	11 17	6 52.01	+13 40.1	1.383	2.167	20.0	18.9
11 27	6 50.63	+18 13.1	1.896	2.746	12.6	21.1	11 27	6 49.13	+12 57.7	1.303	2.165	16.4	18.6
12 7	6 43.27	+18 31.5	1.834	2.756	8.9	20.9	12 7	6 42.88	+12 24.5	1.242	2.163	12.2	18.4
12 17	6 33.83	+18 55.1	1.798	2.765	4.8	20.7	12 17	6 33.87	+12 3.3	1.202	2.162	7.7	18.1
12 27	6 23.26	+19 22.1	1.791	2.773	1.4	20.5	12 27	6 23.30	+11 55.9	1.188	2.161	5.2	18.0
1 6	6 12.74	+19 50.3	1.814	2.781	4.6	20.7	1 6	6 12.71	+12 2.6	1.200	2.160	7.5	18.1
1 16	6 3.40	+20 18.4	1.866	2.788	8.6	21.0	1 16	6 3.66	+12 22.2	1.236	2.159	12.0	18.4
1 26	5 56.21	+20 45.6	1.944	2.795	12.2	21.2	1 26	5 57.38	+12 52.2	1.296	2.159	16.3	18.6
<b>42101</b>	2001 <i>AA</i> <sub>34</sub>		12 26.9 289°79'	2.4/26.7	18		<b>444640</b>	2006 <i>XQ</i> <sub>3</sub>		12 26.9 54°27'	1.2/26.8	17	
11 17	6 54.29	+27 27.9	1.745	2.521	16.8	19.1	11 17	6 57.56	+23 3.5	1.590	2.365	18.2	20.5
11 27	6 50.61	+28 1.4	1.657	2.518	13.5	18.9	11 27	6 52.81	+23 52.5	1.539	2.400	14.4	20.3
12 7	6 43.76	+28 36.3	1.589	2.516	9.6	18.6	12 7	6 44.92	+24 45.9	1.508	2.436	9.9	20.2
12 17	6 34.28	+29 8.2	1.546	2.513	5.3	18.4	12 17	6 34.65	+25 38.8	1.502	2.471	5.1	20.0
12 27	6 23.26	+29 32.6	1.530	2.510	2.4	18.2	12 27	6 23.30	+26 26.4	1.524	2.507	1.2	19.8
1 6	6 12.17	+29 46.7	1.543	2.507	5.6	18.4	1 6	6 12.35	+27 5.2	1.575	2.542	5.1	20.1
1 16	6 2.47	+29 50.4	1.583	2.505	9.9	18.6	1 16	6 3.13	+27 34.3	1.654	2.577	9.4	20.5
1 26	5 55.35	+29 45.7	1.648	2.502	13.8	18.9	1 26	5 56.63	+27 55.0	1.757	2.612	13.1	20.8
<b>503291</b>	2015 <i>YY</i> <sub>7</sub>		12 26.9 137°46'	7.0/28.2	17		<b>143877</b>	2003 <i>YF</i> <sub>26</sub>		12 26.9 284°11'	1.9/26.7	18	
11 17	7 15.35	+41 5.0	1.147	1.917	24.2	21.5	11 17	6 55.03	+24 31.9	1.480	2.267	18.8	20.1
11 27	7 9.39	+40 46.6	1.074	1.922	20.2	21.3	11 27	6 51.83	+25 14.7	1.393	2.261	15.2	19.8
12 7	6 57.73	+40 8.7	1.016	1.927	15.4	21.0	12 7	6 45.01	+26 3.4	1.325	2.256	10.7	19.6
12 17	6 41.52	+39 0.2	0.980	1.932	10.3	20.7	12 17	6 35.10	+26 53.2	1.281	2.251	5.7	19.3
12 27	6 23.23	+37 15.1	0.968	1.937	7.0	20.6	12 27	6 23.29	+27 38.6	1.264	2.245	1.9	19.0
1 6	6 5.97	+34 58.1	0.983	1.941	9.2	20.7	1 6	6 11.28	+28 14.7	1.273	2.240	6.1	19.3
1 16	5 52.30	+32 23.9	1.024	1.945	14.1	21.0	1 16	6 0.81	+28 39.8	1.309	2.235	11.2	19.5
1 26	5 43.64	+29 50.0	1.088	1.948	18.9	21.3	1 26	5 53.33	+28 55.2	1.369	2.230	15.7	19.8
<b>52447</b>	1994 <i>TH</i> <sub>16</sub>		12 26.9 57°16'	6.8/26.9	18		<b>234610</b>	2002 <i>AG</i> <sub>56</sub>		12 26.9 306°80'	0.2/26.9	18	
11 17	6 56.36	+12 32.6	1.336	2.113	21.0	18.5	11 17	6 53.61	+23 52.9	1.592	2.375	17.9	20.3
11 27	6 52.06	+11 4.3	1.282	2.137	17.1	18.3	11 27	6 50.21	+23 36.8	1.501	2.368	14.4	20.1
12 7	6 44.45	+9 45.5	1.247	2.161	12.8	18.1	12 7	6 43.55	+23 21.1	1.431	2.361	10.1	19.8
12 17	6 34.40	+8 41.1	1.234	2.186	8.8	17.9	12 17	6 34.20	+23 4.3	1.384	2.354	5.3	19.5
12 27	6 23.27	+7 55.2	1.247	2.210	6.8	17.9	12 27	6 23.31	+22 45.3	1.364	2.347	0.2	19.1
1 6	6 12.64	+7 29.9	1.286	2.235	8.7	18.1	1 6	6 12.39	+22 24.0	1.371	2.340	5.3	19.5
1 16	6 3.87	+7 24.5	1.350	2.260	12.3	18.4	1 16	6 2.93	+22 1.8	1.406	2.334	10.3	19.7
1 26	5 57.92	+7 35.8	1.437	2.285	15.8	18.6	1 26	5 56.15	+21 40.9	1.464	2.328	14.7	20.0
<b>125179</b>	2001 <i>UM</i> <sub>114</sub>		12 26.9 244°52'	2.7/27.2	18		<b>482506</b>	2012 <i>TE</i> <sub>86</sub>		12 26.9 173°18'	3.7/26.6	18	
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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>159793</b>	2003 <i>QJ</i> <sub>64</sub>		12 26.9 63°82	1°3/27.2	18		<b>478467</b>	2012 <i>QF</i> <sub>20</sub>		12 26.9 81°75	5°2/27.6	18	
11 17	6 59.21	+18 21.0	1.617	2.382	18.4	19.7	11 17	6 54.41	+11 8.4	1.579	2.342	18.8	21.8
11 27	6 53.77	+18 36.2	1.568	2.423	14.5	19.5	11 27	6 50.29	+10 39.7	1.512	2.359	15.4	21.6
12 7	6 45.36	+18 58.4	1.540	2.464	10.1	19.3	12 7	6 43.22	+10 23.0	1.464	2.376	11.4	21.4
12 17	6 34.78	+19 25.4	1.536	2.504	5.3	19.2	12 17	6 33.86	+10 20.0	1.439	2.393	7.5	21.2
12 27	6 23.31	+19 54.5	1.561	2.543	1.3	19.0	12 27	6 23.36	+10 31.5	1.441	2.410	5.2	21.1
1 6	6 12.34	+20 23.2	1.615	2.583	4.9	19.3	1 6	6 13.08	+10 56.1	1.471	2.427	7.0	21.3
1 16	6 3.10	+20 50.2	1.697	2.621	9.2	19.7	1 16	6 4.28	+11 31.5	1.527	2.443	10.6	21.5
1 26	5 56.46	+21 15.2	1.805	2.659	12.8	20.0	1 26	5 57.95	+12 14.4	1.607	2.460	14.2	21.8
<b>369619</b>	2011 <i>CD</i> <sub>116</sub>		12 26.9 173°33	2°0/27.2	18		<b>5949</b>	1985 <i>RL</i> <sub>3</sub>		12 26.9 197°12	1°0/26.8	18	
11 17	6 49.50	+16 33.3	2.714	3.460	12.2	21.8	11 17	6 57.05	+23 19.0	1.733	2.503	17.1	17.4
11 27	6 45.27	+16 23.6	2.619	3.462	9.8	21.6	11 27	6 52.79	+23 53.7	1.643	2.501	13.8	17.2
12 7	6 39.17	+16 18.4	2.547	3.464	7.0	21.4	12 7	6 45.31	+24 33.6	1.572	2.499	9.7	16.9
12 17	6 31.63	+16 17.6	2.503	3.465	4.0	21.3	12 17	6 35.14	+25 15.2	1.527	2.496	5.0	16.6
12 27	6 23.32	+16 21.0	2.488	3.466	2.0	21.1	12 27	6 23.36	+25 53.9	1.510	2.493	1.0	16.3
1 6	6 15.02	+16 28.1	2.504	3.467	3.9	21.3	1 6	6 11.44	+26 26.2	1.522	2.490	5.2	16.6
1 16	6 7.48	+16 38.5	2.550	3.467	6.9	21.4	1 16	6 0.87	+26 50.7	1.563	2.485	9.9	16.9
1 26	6 1.38	+16 51.7	2.623	3.467	9.6	21.6	1 26	5 52.89	+27 8.1	1.628	2.481	14.0	17.1
<b>520399</b>	2014 <i>JQ</i> <sub>54</sub>		12 26.9 224°07	2°9/27.3	18		<b>265494</b>	2005 <i>GZ</i> <sub>51</sub>		12 26.9 288°09	1°9/27.1	18	
11 17	6 53.27	+13 24.8	2.812	3.540	12.2	23.9	11 17	6 53.36	+19 41.5	1.441	2.228	19.2	21.2
11 27	6 48.28	+13 11.6	2.695	3.525	9.9	23.7	11 27	6 50.62	+19 27.4	1.338	2.207	15.7	20.9
12 7	6 41.32	+13 4.1	2.602	3.509	7.3	23.5	12 7	6 44.32	+19 18.2	1.255	2.185	11.3	20.6
12 17	6 32.79	+13 2.7	2.537	3.492	4.6	23.3	12 17	6 34.87	+19 13.9	1.194	2.163	6.1	20.2
12 27	6 23.32	+13 7.6	2.502	3.474	2.9	23.2	12 27	6 23.36	+19 13.5	1.159	2.141	1.9	19.9
1 6	6 13.71	+13 18.6	2.499	3.455	4.4	23.3	1 6	6 11.43	+19 16.1	1.150	2.119	6.2	20.1
1 16	6 4.76	+13 34.9	2.526	3.435	7.3	23.4	1 16	6 0.84	+19 21.4	1.167	2.097	11.8	20.4
1 26	5 57.22	+13 55.7	2.582	3.414	10.2	23.6	1 26	5 53.13	+19 29.8	1.207	2.075	16.9	20.6
<b>129977</b>	1999 <i>UK</i> <sub>36</sub>		12 26.9 209°17	1°9/27.1	18		<b>323517</b>	2004 <i>RB</i> <sub>82</sub>		12 26.9 54°47	4°8/26.6	17	
11 17	6 53.83	+18 21.8	2.096	2.853	15.0	21.3	11 17	6 55.30	+35 20.9	1.975	2.738	15.6	20.5
11 27	6 49.41	+18 8.2	1.998	2.848	12.1	21.1	11 27	6 51.05	+36 1.3	1.902	2.750	12.7	20.3
12 7	6 42.46	+17 58.8	1.922	2.843	8.6	20.9	12 7	6 43.80	+36 36.3	1.850	2.763	9.4	20.2
12 17	6 33.47	+17 53.4	1.872	2.837	4.8	20.6	12 17	6 34.19	+37 0.7	1.823	2.775	6.3	20.0
12 27	6 23.32	+17 51.7	1.851	2.831	1.9	20.4	12 27	6 23.37	+37 9.9	1.824	2.789	4.8	19.9
1 6	6 13.12	+17 53.1	1.859	2.824	4.7	20.6	1 6	6 12.73	+37 2.5	1.853	2.802	6.5	20.1
1 16	6 3.95	+17 57.4	1.897	2.817	8.6	20.8	1 16	6 3.58	+36 40.0	1.909	2.815	9.5	20.3
1 26	5 56.77	+18 4.5	1.961	2.810	12.2	21.0	1 26	5 56.93	+36 6.6	1.990	2.829	12.5	20.5
<b>403928</b>	2012 <i>AE</i> <sub>20</sub>		12 26.9 207°89	2°8/26.9	17		<b>161655</b>	2006 <i>BZ</i> <sub>234</sub>		12 26.9 104°96	0°5/26.9	18	
11 17	6 56.18	+32 28.3	2.371	3.121	13.6	21.4	11 17	6 52.64	+24 5.5	2.419	3.175	13.2	20.8
11 27	6 51.17	+32 34.8	2.272	3.117	11.0	21.2	11 27	6 48.01	+24 16.6	2.339	3.190	10.5	20.6
12 7	6 43.60	+32 36.8	2.197	3.112	8.0	21.0	12 7	6 41.19	+24 28.9	2.282	3.206	7.3	20.5
12 17	6 34.01	+32 31.1	2.147	3.108	4.8	20.8	12 17	6 32.71	+24 40.5	2.252	3.221	3.7	20.3
12 27	6 23.33	+32 15.1	2.127	3.103	2.8	20.7	12 27	6 23.39	+24 49.6	2.252	3.235	0.5	20.0
1 6	6 12.70	+31 48.3	2.138	3.097	4.8	20.8	1 6	6 14.18	+24 55.4	2.283	3.250	3.7	20.3
1 16	6 3.22	+31 12.3	2.178	3.092	8.1	21.0	1 16	6 5.99	+24 57.7	2.343	3.264	7.2	20.5
1 26	5 55.80	+30 30.4	2.245	3.085	11.2	21.2	1 26	5 59.59	+24 57.4	2.431	3.278	10.2	20.8
<b>72545</b>	Robbiwessen		12 26.9 133°17	0°6/26.9	18		<b>246898</b>	1997 <i>SB</i> <sub>31</sub>		12 26.9 183°52	4°6/26.8	18	
11 17	6 51.32	+22 52.6	2.385	3.144	13.3	19.0	11 17	6 58.91	+36 41.9	2.253	2.998	14.4	21.1
11 27	6 47.16	+23 23.9	2.295	3.147	10.6	18.9	11 27	6 53.64	+37 7.7	2.162	2.998	11.8	20.9
12 7	6 40.75	+23 58.6	2.227	3.151	7.4	18.7	12 7	6 45.49	+37 27.3	2.092	2.998	8.9	20.7
12 17	6 32.54	+24 34.5	2.186	3.154	3.8	18.4	12 17	6 35.05	+37 35.6	2.048	2.997	6.0	20.5
12 27	6 23.34	+25 8.7	2.174	3.157	0.6	18.2	12 27	6 23.38	+37 28.8	2.033	2.997	4.6	20.4
1 6	6 14.09	+25 39.3	2.193	3.160	3.9	18.5	1 6	6 11.80	+37 5.7	2.048	2.995	6.1	20.5
1 16	6 5.77	+26 4.9	2.242	3.163	7.4	18.7	1 16	6 1.57	+36 28.1	2.091	2.994	9.0	20.7
1 26	5 59.20	+26 25.8	2.318	3.166	10.6	18.9	1 26	5 53.71	+35 40.4	2.161	2.991	11.9	20.9
<b>360897</b>	2005 <i>SE</i> <sub>152</sub>		12 26.9 117°34	6°2/25.8	18		<b>452257</b>	2015 <i>TW</i> <sub>121</sub>		12 26.9 41°23	6°3/27.9	18	
11 17	6 58.33	+38 19.4	2.240	2.984	14.5	20.8	11 17	6 49.87	+ 6 54.3	1.879	2.626	16.8	21.2
11 27	6 53.45	+39 38.0	2.162	2.994	12.0	20.7	11 27	6 46.38	+ 6 21.6	1.796	2.628	14.0	21.0
12 7	6 45.55	+40 51.9	2.107	3.003	9.3	20.5	12 7	6 40.40	+ 6 1.8	1.734	2.632	10.9	20.8
12 17	6 35.15	+41 54.1	2.077	3.012	7.0	20.4	12 17	6 32.44	+ 5 57.7	1.695	2.635	7.9	20.6
12 27	6 23.33	+42 38.5	2.076	3.021	6.2	20.4	12 27	6 23.41	+ 6 10.8	1.682	2.638	6.3	20.5
1 6	6 11.45	+43 1.9	2.103	3.030	7.5	20.5	1 6	6 14.38	+ 6 40.5	1.698	2.642	7.5	20.6
1 16	6 0.90	+43 4.7	2.158	3.038	9.8	20.6	1 16	6 6.44	+ 7 24.5	1.740	2.645	10.3	20.8
1 26	5 52.80	+42 50.9	2.238	3.047	12.3	20.8	1 26	6 0.49	+ 8 19.1	1.807	2.649	13.4	21.0
<b>147533</b>	2004 <i>EN</i> <sub>3</sub>		12 26.9 273°76	0°3/26.9	18		<b>516867</b>	2011 <i>GB</i> <sub>60</sub>		12 26.9 216°80	0°6/27.1	18	
11 17	6 54.39	+20 57.7	1.538	2.320	18.4	19.9	11 17	6 55.86	+20 44.0	1.964	2.724	15.7	22.4
11 27	6 51.09	+21 33.4	1.448	2.314	14.9	19.7	11 27	6 51.38	+20 51.9	1.864	2.717	12.7	22.2
12 7	6 44.37	+22 17.6	1.378	2.307	10.5	19.4	12 7	6 44.07	+21 4.2	1.785	2.709	8.9	21.9
12 17	6 34.75	+23 7.3	1.331	2.301	5.4	19.1	12 17	6 34.43	+21 19.5	1.732	2.700	4.7	21.7
12 27	6 23.33	+23 57.8	1.312	2.295	0.3	18.7	12 27	6 23.40	+21 35.7	1.707	2.691	0.6	21.3
1 6	6 11.69	+24 44.7	1.320	2.289	5.5	19.1	1 6	6 12.22	+21 51.1	1.713	2.680	4.7	21.6
1 16	6 1.45	+25 25.2	1.356	2.283	10.7	19.3	1 16	6 2.15	+22 4.8	1.747	2.670	9.1	21.9
1 26	5 53.98	+25 58.9	1.415	2.277	15.2	19.6	1 26	5 54.29	+22 17.1	1.807	2.658	13.0	22.1
<b>483320</b>	2016 <i>LV</i> <sub>11</sub>		12 26.9 85°97	1°5/26.8	17		<b>439245</b>	2012 <i>TF</i> <sub>201</sub>		12 26.9 155°14	0°0/26.9		

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2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>3434</b>	Hurless		12 26.9	76°60	0°3/26.9	18	<b>486663</b>	2013 QN <sub>61</sub>		12 26.9	121°65	2°6/26.9	17
11 17	6 56.12	+22 39.1	1.796	2.564	16.7	17.4	11 17	6 53.96	+32 6.1	2.528	3.278	12.8	21.4
11 27	6 51.42	+22 57.4	1.730	2.588	13.2	17.2	11 27	6 49.15	+32 16.4	2.441	3.286	10.3	21.3
12 7	6 43.88	+23 19.0	1.686	2.613	9.2	17.0	12 7	6 42.05	+32 22.8	2.378	3.294	7.4	21.1
12 17	6 34.17	+23 41.3	1.668	2.637	4.7	16.8	12 17	6 33.20	+32 22.5	2.341	3.301	4.4	20.9
12 27	6 23.42	+24 1.4	1.678	2.661	0.3	16.5	12 27	6 23.46	+32 13.3	2.334	3.309	2.6	20.8
1 6	6 12.93	+24 17.5	1.717	2.685	4.6	16.9	1 6	6 13.85	+31 54.8	2.357	3.316	4.5	21.0
1 16	6 3.92	+24 29.3	1.784	2.708	8.8	17.2	1 16	6 5.31	+31 28.1	2.410	3.323	7.4	21.2
1 26	5 57.31	+24 37.6	1.877	2.732	12.4	17.5	1 26	5 58.65	+30 55.8	2.490	3.330	10.2	21.3
<b>361569</b>	2007 RJ <sub>97</sub>		12 26.9	0°39	7°2/27.9	18	<b>487522</b>	2014 UR <sub>55</sub>		12 26.9	122°71	1°4/26.7	17
11 17	6 38.21	+10 47.1	0.966	1.799	23.3	19.8	11 17	6 51.85	+25 33.5	2.499	3.255	12.8	20.8
11 27	6 39.25	+10 7.3	0.903	1.792	19.4	19.5	11 27	6 47.52	+26 9.6	2.410	3.261	10.2	20.6
12 7	6 36.62	+9 44.8	0.856	1.788	14.7	19.2	12 7	6 40.98	+26 47.3	2.345	3.268	7.1	20.4
12 17	6 30.89	+9 45.1	0.826	1.787	10.0	19.0	12 17	6 32.70	+27 24.0	2.307	3.274	3.8	20.2
12 27	6 23.42	+10 10.4	0.818	1.789	7.2	18.9	12 27	6 23.46	+27 56.7	2.299	3.281	1.4	20.1
1 6	6 15.98	+10 58.9	0.830	1.794	9.2	19.0	1 6	6 14.21	+28 23.3	2.322	3.287	4.0	20.3
1 16	6 10.29	+12 5.0	0.864	1.802	13.7	19.2	1 16	6 5.86	+28 43.1	2.375	3.293	7.3	20.5
1 26	6 7.71	+13 21.2	0.917	1.812	18.3	19.5	1 26	5 59.25	+28 56.7	2.454	3.298	10.2	20.7
<b>273161</b>	2006 HL <sub>59</sub>		12 26.9	309°34	3°6/26.9	18	<b>361827</b>	2008 CF <sub>178</sub>		12 26.9	221°10	1°0/26.8	18
11 17	6 53.10	+33 6.4	2.006	2.773	15.2	20.3	11 17	6 53.35	+24 1.0	2.175	2.936	14.3	20.9
11 27	6 49.54	+33 17.6	1.897	2.751	12.4	20.0	11 27	6 49.17	+24 32.7	2.077	2.931	11.5	20.7
12 7	6 43.00	+33 24.0	1.809	2.728	9.1	19.8	12 7	6 42.42	+25 7.9	2.002	2.926	8.1	20.5
12 17	6 33.96	+33 21.4	1.745	2.706	5.6	19.5	12 17	6 33.56	+25 43.5	1.952	2.921	4.2	20.3
12 27	6 23.42	+33 6.4	1.710	2.684	3.6	19.3	12 27	6 23.47	+26 16.6	1.933	2.915	1.0	20.0
1 6	6 12.72	+32 37.7	1.702	2.662	5.8	19.4	1 6	6 13.25	+26 44.4	1.943	2.909	4.4	20.2
1 16	6 3.22	+31 56.8	1.723	2.641	9.5	19.6	1 16	6 4.03	+27 5.9	1.982	2.903	8.3	20.5
1 26	5 56.09	+31 7.8	1.769	2.620	13.2	19.8	1 26	5 56.79	+27 21.6	2.048	2.897	11.3	20.7
<b>272943</b>	2006 BW <sub>276</sub>		12 26.9	52°19	1°1/26.9	17	<b>162294</b>	1999 VQ <sub>148</sub>		12 26.9	68°50	1°6/27.1	18
11 17	6 51.81	+25 44.6	2.076	2.845	14.7	21.3	11 17	6 56.99	+19 51.4	1.634	2.405	18.0	19.9
11 27	6 47.91	+26 0.1	1.993	2.851	11.7	21.1	11 27	6 52.17	+19 34.2	1.576	2.434	14.3	19.7
12 7	6 41.44	+26 16.3	1.931	2.857	8.2	20.9	12 7	6 44.38	+19 21.3	1.537	2.462	10.0	19.5
12 17	6 32.97	+26 30.8	1.895	2.863	4.3	20.7	12 17	6 34.41	+19 12.2	1.523	2.491	5.3	19.3
12 27	6 23.43	+26 41.1	1.888	2.870	1.2	20.4	12 27	6 23.47	+19 6.0	1.537	2.519	1.6	19.2
1 6	6 13.95	+26 45.9	1.910	2.876	4.4	20.7	1 6	6 12.95	+19 2.3	1.580	2.547	5.1	19.4
1 16	6 5.62	+26 45.2	1.960	2.883	8.2	20.9	1 16	6 4.06	+19 1.2	1.651	2.575	9.4	19.8
1 26	5 59.36	+26 40.4	2.037	2.890	11.6	21.2	1 26	5 57.70	+19 2.9	1.746	2.602	13.1	20.1
<b>161413</b>	2003 UG <sub>246</sub>		12 26.9	79°84	1°1/26.9	18	<b>405850</b>	2006 BN <sub>283</sub>		12 26.9	8°08	0°6/26.9	17
11 17	6 58.88	+24 28.9	1.832	2.594	16.6	20.1	11 17	6 50.75	+24 49.2	1.856	2.634	15.9	21.4
11 27	6 53.50	+24 56.7	1.772	2.626	13.1	19.9	11 27	6 47.40	+24 50.3	1.771	2.635	12.7	21.2
12 7	6 45.24	+25 26.4	1.734	2.658	9.1	19.7	12 7	6 41.29	+24 52.2	1.708	2.637	8.9	21.0
12 17	6 34.83	+25 54.5	1.721	2.689	4.7	19.5	12 17	6 32.98	+24 52.9	1.669	2.638	4.6	20.7
12 27	6 23.43	+26 17.5	1.738	2.720	1.1	19.3	12 27	6 23.48	+24 50.6	1.657	2.641	0.6	20.4
1 6	6 12.38	+26 33.6	1.784	2.750	4.7	19.7	1 6	6 14.04	+24 44.6	1.675	2.643	4.6	20.7
1 16	6 2.89	+26 42.8	1.859	2.780	8.7	20.0	1 16	6 5.85	+24 35.2	1.720	2.646	8.9	21.0
1 26	5 55.87	+26 46.7	1.960	2.809	12.2	20.2	1 26	5 59.91	+24 23.9	1.790	2.650	12.6	21.2
<b>182435</b>	2001 RE <sub>140</sub>		12 26.9	56°84	3°7/26.6	18	<b>494135</b>	2016 CP <sub>185</sub>		12 26.9	180°74	3°5/27.2	18
11 17	6 54.76	+31 15.7	1.855	2.626	16.1	20.5	11 17	6 49.14	+13 2.6	2.533	3.276	13.0	21.8
11 27	6 50.80	+31 54.7	1.776	2.632	13.0	20.3	11 27	6 45.13	+12 30.1	2.439	3.277	10.6	21.6
12 7	6 43.76	+32 31.6	1.718	2.639	9.4	20.1	12 7	6 39.18	+12 3.3	2.368	3.277	7.8	21.4
12 17	6 34.27	+33 1.6	1.685	2.646	5.7	19.9	12 17	6 31.73	+11 43.3	2.323	3.277	5.1	21.2
12 27	6 23.43	+33 19.9	1.679	2.653	3.7	19.8	12 27	6 23.49	+11 31.2	2.308	3.277	3.5	21.1
1 6	6 12.67	+33 24.5	1.702	2.660	5.9	19.9	1 6	6 15.25	+11 27.1	2.322	3.276	4.9	21.2
1 16	6 3.35	+33 15.9	1.752	2.667	9.6	20.2	1 16	6 7.82	+11 30.9	2.366	3.276	7.7	21.4
1 26	5 56.56	+32 57.5	1.827	2.675	13.0	20.4	1 26	6 1.90	+11 41.6	2.436	3.276	10.5	21.6
<b>223082</b>	2002 TK <sub>283</sub>		12 26.9	61°54	5°3/26.7	18	<b>243481</b>	2009 TW <sub>14</sub>		12 26.9	67°22	0°5/27.0	18
11 17	6 59.06	+33 14.1	1.389	2.174	19.9	20.1	11 17	6 52.25	+21 33.6	2.072	2.837	14.9	21.1
11 27	6 55.24	+34 0.8	1.324	2.187	16.2	19.9	11 27	6 48.02	+21 35.6	2.000	2.855	11.8	20.9
12 7	6 47.38	+34 43.2	1.278	2.200	11.9	19.7	12 7	6 41.37	+21 40.5	1.949	2.874	8.2	20.7
12 17	6 36.26	+35 13.8	1.255	2.214	7.5	19.5	12 17	6 32.89	+21 47.0	1.924	2.892	4.2	20.5
12 27	6 23.44	+35 26.1	1.257	2.228	5.3	19.4	12 27	6 23.50	+21 53.7	1.928	2.911	0.5	20.2
1 6	6 10.93	+35 17.5	1.286	2.242	7.7	19.5	1 6	6 14.29	+21 59.6	1.961	2.929	4.1	20.6
1 16	6 0.59	+34 50.9	1.340	2.256	11.8	19.8	1 16	6 6.26	+22 4.5	2.024	2.948	7.9	20.8
1 26	5 53.70	+34 12.3	1.417	2.271	15.7	20.1	1 26	6 0.23	+22 8.8	2.112	2.966	11.2	21.1
<b>484124</b>	2006 SR <sub>267</sub>		12 26.9	21°51	0°1/26.9	17	<b>341884</b>	2008 GA <sub>120</sub>		12 26.9	189°90	1°2/27.1	18
11 17	6 52.25	+23 25.9	1.745	2.523	16.7	21.2	11 17	6 56.88	+19 37.1	2.056	2.809	15.3	22.7
11 27	6 48.71	+23 18.1	1.662	2.526	13.4	21.0	11 27	6 51.94	+19 36.3	1.960	2.808	12.3	22.4
12 7	6 42.25	+23 11.6	1.600	2.529	9.4	20.8	12 7	6 44.32	+19 39.7	1.886	2.807	8.7	22.2
12 17	6 33.47	+23 5.0	1.562	2.532	4.8	20.5	12 17	6 34.53	+19 46.4	1.838	2.804	4.7	22.0
12 27	6 23.46	+22 57.1	1.552	2.536	0.1	20.1	12 27	6 23.51	+19 55.0	1.819	2.801	1.2	21.7
1 6	6 13.52	+22 47.3	1.571	2.540	4.8	20.5	1 6	6 12.43	+20 4.3	1.830	2.797	4.6	21.9
1 16	6 4.95	+22 36.3	1.616	2.544	9.3	20.8	1 16	6 2.47	+20 13.8	1.871	2.792	8.7	22.2
1 26	5 58.76	+22 25.3	1.687	2.548	13.2	21.0	1 26	5 54.62	+20 23.7	1.938	2.786	12.4	22.4
<b>51115</b>	2000 HU <sub>29</sub>		12 26.9	240°47	6°9/26.7	18	<b>23737</b>	1998 HW <sub>150</sub>		12 26.9	57°56	4°0/27.5	18
11 17	6 49.14	+ 2 39.6	2.748	3.453	12.9								

EPHEMERIDES

12 26.9

12 27.0

2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020/21	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>356173</b>	2009 <i>HQ</i> <sub>74</sub>		12 26.9 266°42	5°7/27.8	18		<b>211281</b>	2002 <i>RU</i> <sub>146</sub>		12 27.0 57°53	2°1/26.9	18	
11 17	6 51.25	+ 7 12.5	2.100	2.836	15.6	21.2	11 27	6 51.25	+27 41.5	1.564	2.428	14.1	20.4
12 7	6 47.49	+ 6 52.5	1.989	2.816	13.1	21.0	12 7	6 44.09	+28 4.8	1.518	2.445	9.9	20.2
12 17	6 41.30	+ 6 44.4	1.899	2.795	10.2	20.8	12 17	6 34.45	+28 24.1	1.495	2.463	5.3	20.0
12 27	6 33.05	+ 6 50.7	1.833	2.775	7.3	20.6	12 27	6 23.55	+28 35.7	1.500	2.481	2.1	19.8
1 6	6 23.52	+ 7 12.8	1.795	2.754	5.7	20.4	1 6	6 12.92	+28 38.1	1.533	2.499	5.4	20.1
1 16	6 13.71	+ 7 50.2	1.786	2.732	6.9	20.5	1 16	6 3.92	+28 31.9	1.593	2.517	9.6	20.3
1 26	6 4.72	+ 8 40.8	1.804	2.710	9.9	20.6	1 26	5 57.60	+28 19.7	1.677	2.535	13.4	20.6
2 5	5 57.53	+ 9 41.5	1.849	2.688	13.2	20.8	2 5	5 54.46	+28 4.6	1.782	2.554	16.5	20.9
<b>256172</b>	2006 <i>VD</i> <sub>64</sub>		12 27.0 293°13	0°8/27.1	17		<b>343282</b>	2010 <i>AX</i> <sub>40</sub>		12 27.0 326°51	1°5/27.2	18	
11 27	6 48.10	+20 58.7	1.886	2.744	12.3	21.1	11 27	6 47.62	+18 34.9	1.267	2.142	16.0	20.1
12 7	6 41.69	+21 0.1	1.817	2.742	8.7	20.9	12 7	6 42.30	+18 57.7	1.193	2.126	11.4	19.8
12 17	6 33.19	+21 3.9	1.772	2.741	4.5	20.6	12 17	6 33.91	+19 29.9	1.141	2.111	6.2	19.5
12 27	6 23.52	+21 8.8	1.756	2.739	0.8	20.3	12 27	6 23.56	+20 9.0	1.115	2.097	1.5	19.1
1 6	6 13.84	+21 13.8	1.770	2.738	4.5	20.6	1 6	6 12.87	+20 51.3	1.114	2.084	6.0	19.4
1 16	6 5.27	+21 18.6	1.811	2.736	8.6	20.9	1 16	6 3.57	+21 33.7	1.138	2.072	11.6	19.7
1 26	5 58.79	+21 23.4	1.878	2.735	12.3	21.1	1 26	5 57.16	+22 14.4	1.184	2.060	16.6	19.9
2 5	5 54.96	+21 28.8	1.967	2.733	15.4	21.3	2 5	5 54.49	+22 52.4	1.249	2.049	20.7	20.2
<b>256549</b>	2007 <i>HO</i> <sub>82</sub>		12 27.0 141°78	6°6/28.1	17		<b>219229</b>	1999 <i>VC</i> <sub>162</sub>		12 27.0 69°19	0°2/27.0	18	
11 27	6 44.46	+ 0 30.0	2.616	3.408	11.3	20.7	11 27	6 48.83	+23 1.8	1.968	2.824	11.9	20.1
12 7	6 38.60	+ 0 1.8	2.553	3.416	9.2	20.6	12 7	6 41.94	+22 57.4	1.918	2.844	8.3	20.0
12 17	6 31.42	+ 0 11.9	2.515	3.423	7.4	20.5	12 17	6 33.20	+22 53.1	1.895	2.864	4.2	19.8
12 27	6 23.53	+ 0 9.5	2.505	3.430	6.6	20.5	12 27	6 23.56	+22 47.8	1.900	2.883	0.2	19.4
1 6	6 15.67	+ 0 9.0	2.523	3.436	7.1	20.5	1 6	6 14.14	+22 40.9	1.935	2.903	4.2	19.8
1 16	6 8.56	+ 0 42.2	2.570	3.442	8.8	20.6	1 16	6 5.98	+22 33.0	1.999	2.923	8.0	20.1
1 26	6 2.81	+ 1 27.5	2.642	3.448	10.7	20.8	1 26	5 59.87	+22 24.9	2.089	2.943	11.3	20.3
2 5	5 58.84	+ 2 21.2	2.736	3.454	12.6	20.9	2 5	5 56.28	+22 17.8	2.201	2.962	14.1	20.6
<b>244120</b>	2001 <i>VP</i> <sub>23</sub>		12 27.0 75°35	2°0/27.1	18		<b>51243</b>	2000 <i>JG</i> <sub>38</sub>		12 27.0 277°69	1°1/27.1	18	
11 27	6 54.94	+20 3.1	1.181	2.050	17.3	19.7	11 27	6 45.90	+20 11.2	2.333	3.185	10.5	19.4
12 7	6 46.89	+19 38.6	1.140	2.071	12.1	19.5	12 7	6 39.91	+20 0.4	2.253	3.176	7.4	19.2
12 17	6 35.90	+19 18.1	1.122	2.091	6.5	19.2	12 17	6 32.22	+19 51.5	2.199	3.166	4.0	19.0
12 27	6 23.53	+19 1.2	1.130	2.111	2.0	19.0	12 27	6 23.57	+19 44.0	2.174	3.156	1.1	18.7
1 6	6 11.65	+18 48.2	1.164	2.132	6.2	19.4	1 6	6 14.86	+19 37.9	2.180	3.147	3.9	18.9
1 16	6 1.90	+18 39.5	1.223	2.152	11.5	19.7	1 16	6 7.00	+19 33.1	2.215	3.137	7.4	19.1
1 26	5 55.42	+18 36.0	1.305	2.172	15.9	20.0	1 26	6 0.78	+19 30.1	2.276	3.127	10.7	19.3
2 5	5 52.64	+18 37.3	1.406	2.192	19.5	20.3	2 5	5 56.72	+19 29.0	2.361	3.117	13.4	19.5
<b>47995</b>	2000 <i>YE</i> <sub>133</sub>		12 27.0 213°94	4°0/27.6	18		<b>332745</b>	2009 <i>TZ</i> <sub>19</sub>		12 27.0 81°47	1°1/26.9	18	
11 27	6 45.21	+10 12.5	2.399	3.231	10.9	18.5	11 27	6 55.88	+25 15.3	1.452	2.312	15.2	20.6
12 7	6 39.31	+10 2.9	2.324	3.228	8.2	18.3	12 7	6 47.23	+25 35.8	1.415	2.342	10.5	20.4
12 17	6 31.86	+10 2.6	2.275	3.225	5.5	18.2	12 17	6 35.99	+25 54.2	1.402	2.371	5.4	20.2
12 27	6 23.55	+10 12.3	2.255	3.221	4.0	18.1	12 27	6 23.57	+26 6.6	1.417	2.400	1.1	19.9
1 6	6 15.19	+10 31.4	2.265	3.217	5.2	18.1	1 6	6 11.63	+26 11.6	1.461	2.428	5.3	20.3
1 16	6 7.60	+10 58.8	2.304	3.213	7.9	18.3	1 16	6 1.62	+26 9.9	1.531	2.456	9.9	20.6
1 26	6 1.52	+11 32.6	2.370	3.209	10.7	18.5	1 26	5 54.58	+26 3.8	1.627	2.483	13.9	20.9
2 5	5 57.44	+12 10.8	2.458	3.205	13.2	18.6	2 5	5 50.93	+25 56.1	1.742	2.510	17.0	21.2
<b>451750</b>	2013 <i>EG</i> <sub>88</sub>		12 27.0 263°53	4°3/26.2	18		<b>130389</b>	2000 <i>JH</i> <sub>70</sub>		12 27.0 308°52	4°2/26.8	18	
11 27	6 52.42	+33 44.7	2.087	2.932	11.8	21.4	11 27	6 46.25	+13 42.5	2.012	2.859	12.1	19.2
12 7	6 45.06	+34 37.5	1.997	2.910	8.8	21.1	12 7	6 40.36	+12 46.6	1.925	2.839	9.0	19.0
12 17	6 35.14	+35 24.3	1.933	2.888	5.8	20.9	12 17	6 32.53	+11 55.9	1.864	2.820	5.9	18.8
12 27	6 23.55	+35 59.5	1.898	2.865	4.3	20.8	12 27	6 23.57	+11 12.8	1.832	2.801	4.2	18.6
1 6	6 11.58	+36 19.6	1.892	2.842	6.3	20.8	1 6	6 14.48	+10 39.4	1.828	2.782	6.1	18.7
1 16	6 0.61	+36 23.7	1.915	2.818	9.6	21.0	1 16	6 6.29	+10 16.8	1.853	2.764	9.4	18.9
1 26	5 51.90	+36 14.2	1.963	2.794	12.9	21.2	1 26	5 59.90	+10 5.2	1.902	2.745	12.8	19.0
2 5	5 46.22	+35 55.5	2.033	2.770	15.9	21.3	2 5	5 55.93	+10 3.4	1.973	2.728	15.7	19.2
<b>439010</b>	2011 <i>AH</i> <sub>30</sub>		12 27.0 282°04	1°7/27.3	18		<b>269177</b>	2008 <i>FA</i> <sub>105</sub>		12 27.0 213°13	4°3/26.3	18	
11 27	6 50.57	+18 1.5	1.400	2.265	15.4	21.3	11 27	6 54.58	+31 29.0	1.647	2.502	13.9	21.1
12 7	6 44.15	+18 23.2	1.324	2.252	11.0	21.0	12 7	6 46.85	+32 30.7	1.578	2.498	10.2	20.8
12 17	6 34.78	+18 53.6	1.271	2.239	6.0	20.6	12 17	6 36.13	+33 27.0	1.533	2.493	6.3	20.6
12 27	6 23.55	+19 30.5	1.245	2.227	1.7	20.3	12 27	6 23.57	+34 11.0	1.516	2.488	4.3	20.5
1 6	6 12.00	+20 10.6	1.245	2.214	5.8	20.6	1 6	6 10.81	+34 38.1	1.527	2.483	6.8	20.6
1 16	6 1.78	+20 51.1	1.272	2.201	11.1	20.8	1 16	5 59.50	+34 47.9	1.566	2.477	10.8	20.8
1 26	5 54.31	+21 30.4	1.323	2.189	15.8	21.1	1 26	5 51.04	+34 43.4	1.629	2.471	14.6	21.0
2 5	5 50.40	+22 7.8	1.393	2.176	19.8	21.3	2 5	5 46.18	+34 29.6	1.712	2.465	17.8	21.3
<b>478507</b>	2012 <i>SQ</i> <sub>27</sub>		12 27.0 85°73	1°4/27.1	16		<b>137618</b>	1999 <i>VT</i> <sub>197</sub>		12 27.0 21°53	0°6/27.1	18	
11 27	6 52.79	+19 40.5	1.556	2.413	14.5	21.6	11 27	6 49.81	+20 20.3	1.146	2.024	17.0	19.0
12 7	6 44.96	+19 41.1	1.512	2.437	10.1	21.4	12 7	6 43.78	+20 51.6	1.094	2.029	12.0	18.8
12 17	6 34.81	+19 45.5	1.493	2.461	5.3	21.2	12 17	6 34.58	+21 29.7	1.063	2.034	6.2	18.5
12 27	6 23.56	+19 52.3	1.501	2.484	1.4	20.9	12 27	6 23.57	+22 10.6	1.056	2.039	0.6	18.1
1 6	6 12.63	+20 0.2	1.539	2.506	5.1	21.3	1 6	6 12.60	+22 50.1	1.075	2.046	6.1	18.5
1 16	6 3.33	+20 8.7	1.604	2.529	9.5	21.6	1 16	6 3.47	+23 25.3	1.119	2.053	11.7	18.8
1 26	5 56.63	+20 18.1	1.694	2.551	13.4	21.9	1 26	5 57.55	+23 55.9	1.185	2.061	16.5	19.1
2 5	5 52.99	+20 28.4	1.804	2.572	16.5	22.1	2 5	5 55.49	+24 22.1	1.269	2.070	20.4	19.4
<b>29294</b>	1993 <i>OH</i> <sub>9</sub>		12 27.0 165°21	1°5/27.2	18		<b>124529</b>	2001 <i>RL</i> <sub>88</sub>		12 27.0 152°72	0°9/26.9	18	