

EPHEMERIDES

8 31.9

9 1.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>419014</b>	2009 <i>QH</i> <sub>5</sub>		8 31.9 86°86'	13°9'/15.4	17		<b>135989</b>	2002 <i>UN</i> <sub>22</sub>		8 31.9 279°60'	1°1'/2.0	18	
7 30	23 12.62	+27 31.9	1.687	2.370	21.6	20.5	7 30	23 1.98	-2 45.1	1.935	2.800	13.1	19.5
8 9	23 5.58	+29 8.7	1.637	2.397	19.5	20.4	8 9	22 57.49	-3 14.5	1.855	2.792	9.8	19.3
8 19	22 56.02	+30 11.3	1.603	2.422	17.3	20.3	8 19	22 51.21	-3 57.8	1.799	2.784	6.0	19.1
8 29	22 44.84	+30 34.2	1.587	2.448	15.4	20.2	8 29	22 43.75	-4 51.4	1.769	2.775	2.0	18.8
9 8	22 33.31	+30 16.5	1.591	2.473	14.1	20.2	9 8	22 35.92	-5 49.7	1.765	2.767	2.8	18.8
9 18	22 22.76	+29 22.0	1.617	2.497	13.9	20.2	9 18	22 28.63	-6 47.0	1.790	2.759	6.8	19.1
9 28	22 14.35	+27 59.8	1.665	2.521	14.6	20.3	9 28	22 22.72	-7 37.5	1.840	2.751	10.6	19.3
10 8	22 8.83	+26 21.6	1.733	2.544	16.0	20.5	10 8	22 18.81	-8 17.0	1.912	2.742	13.9	19.5
<b>479577</b>	2014 <i>CW</i> <sub>15</sub>		8 31.9 216°44'	0°0'/31.8	18		<b>294547</b>	2007 <i>YU</i> <sub>13</sub>		8 31.9 149°97'	2°9'/29.7	17	
7 30	23 5.80	-6 22.9	2.324	3.186	11.3	21.6	7 30	23 8.36	-13 8.4	1.593	2.483	14.1	21.4
8 9	23 0.00	-6 47.7	2.240	3.177	8.3	21.4	8 9	23 2.34	-13 56.4	1.536	2.488	10.2	21.2
8 19	22 52.56	-7 21.1	2.180	3.167	4.9	21.2	8 19	22 54.07	-14 50.1	1.501	2.493	5.9	20.9
8 29	22 44.04	-7 59.9	2.148	3.157	1.2	20.9	8 29	22 44.41	-15 42.3	1.493	2.498	2.9	20.8
9 8	22 35.18	-8 39.6	2.145	3.146	2.7	21.0	9 8	22 34.49	-16 25.8	1.511	2.502	5.3	20.9
9 18	22 26.79	-9 16.0	2.172	3.134	6.4	21.3	9 18	22 25.48	-16 55.0	1.555	2.506	9.5	21.2
9 28	22 19.64	-9 45.2	2.225	3.121	9.8	21.4	9 28	22 18.40	-17 7.0	1.623	2.509	13.3	21.4
10 8	22 14.31	-10 4.6	2.302	3.108	12.7	21.6	10 8	22 13.90	-17 1.3	1.712	2.512	16.6	21.7
<b>249188</b>	2008 <i>CZ</i> <sub>148</sub>		8 31.9 13°12'	0°0'/31.9	18		<b>317990</b>	2004 <i>BK</i> <sub>69</sub>		8 31.9 82°98'	3°3'/29.5	17	
7 30	22 59.27	-4 16.7	1.693	2.575	13.9	20.0	7 30	23 8.42	-13 47.5	1.463	2.358	14.8	20.2
8 9	22 55.63	-5 20.7	1.630	2.577	10.1	19.8	8 9	23 2.34	-14 40.3	1.422	2.377	10.6	20.0
8 19	22 50.14	-6 39.9	1.589	2.580	5.9	19.5	8 19	22 54.00	-15 37.6	1.403	2.395	6.2	19.8
8 29	22 43.47	-8 8.3	1.574	2.583	1.3	19.2	8 29	22 44.37	-16 31.4	1.409	2.414	3.3	19.7
9 8	22 36.53	-9 37.6	1.585	2.586	3.3	19.4	9 8	22 34.66	-17 14.0	1.442	2.432	5.7	19.9
9 18	22 30.24	-10 59.9	1.624	2.590	7.7	19.7	9 18	22 26.07	-17 40.5	1.500	2.450	9.8	20.2
9 28	22 25.48	-12 8.5	1.687	2.595	11.6	19.9	9 28	22 19.58	-17 48.4	1.581	2.468	13.6	20.4
10 8	22 22.83	-12 59.4	1.771	2.600	15.0	20.1	10 8	22 15.74	-17 38.3	1.683	2.485	16.7	20.7
<b>39020</b>	2000 <i>UT</i> <sub>53</sub>		8 31.9 301°27'	5°7'/27.2	18		<b>315124</b>	2007 <i>EG</i> <sub>82</sub>		8 31.9 138°33'	3°8'/27.9	18	
7 30	23 4.70	-19 21.5	1.549	2.452	13.6	18.4	7 30	23 6.87	-21 3.0	2.589	3.468	9.7	20.8
8 9	23 0.00	-20 30.9	1.479	2.435	10.2	18.1	8 9	23 0.50	-21 32.9	2.533	3.477	7.2	20.6
8 19	22 52.90	-21 42.3	1.432	2.419	6.9	17.9	8 19	22 52.70	-22 0.2	2.503	3.484	4.8	20.5
8 29	22 44.16	-22 46.5	1.409	2.402	5.8	17.8	8 29	22 44.06	-22 20.6	2.502	3.492	3.8	20.5
9 8	22 34.90	-23 34.5	1.412	2.385	8.1	17.9	9 8	22 35.32	-22 30.4	2.529	3.499	5.2	20.6
9 18	22 26.38	-24 0.2	1.439	2.369	11.8	18.1	9 18	22 27.22	-22 27.5	2.584	3.506	7.6	20.7
9 28	22 19.77	-24 1.1	1.487	2.353	15.5	18.3	9 28	22 20.41	-22 11.3	2.666	3.513	10.0	20.9
10 8	22 15.83	-23 38.1	1.555	2.338	18.7	18.5	10 8	22 15.36	-21 42.6	2.769	3.519	12.1	21.1
<b>419798</b>	2010 <i>WK</i> <sub>15</sub>		8 31.9 46°81'	10°5'/24.7	18		<b>435625</b>	2008 <i>SA</i> <sub>123</sub>		9 1.0 303°64'	6°6'/7.5	18	
7 30	23 9.10	-28 26.3	1.173	2.082	16.6	19.6	7 30	22 59.99	+11 54.3	1.651	2.463	17.4	21.0
8 9	23 3.42	-29 59.8	1.147	2.096	13.3	19.5	8 9	22 56.41	+11 41.9	1.564	2.451	14.4	20.7
8 19	22 54.81	-31 19.6	1.142	2.110	10.9	19.4	8 19	22 50.76	+11 0.7	1.497	2.439	11.1	20.5
8 29	22 44.54	-32 13.2	1.159	2.125	10.7	19.4	8 29	22 43.68	+9 50.5	1.452	2.427	8.0	20.3
9 8	22 34.27	-32 32.5	1.197	2.140	12.7	19.6	9 8	22 36.10	+8 15.4	1.431	2.416	6.6	20.2
9 18	22 25.58	-32 16.0	1.257	2.156	15.6	19.8	9 18	22 29.07	+6 23.1	1.436	2.404	8.3	20.3
9 28	22 19.63	-31 27.4	1.335	2.173	18.6	20.1	9 28	22 23.60	+4 24.5	1.466	2.394	11.6	20.4
10 8	22 16.96	-30 13.4	1.430	2.189	21.2	20.3	10 8	22 20.44	+2 30.3	1.519	2.383	15.2	20.6
<b>342010</b>	2008 <i>RX</i> <sub>56</sub>		8 31.9 131°78'	0°2'/1.2	18		<b>58774</b>	1998 <i>FA</i> <sub>58</sub>		9 1.0 29°32'	3°2'/4.5	18	
7 30	23 7.10	-6 8.6	1.943	2.810	13.0	20.7	7 30	22 59.66	+4 10.2	1.845	2.689	14.5	18.0
8 9	23 1.02	-6 29.1	1.882	2.821	9.5	20.6	8 9	22 55.79	+3 39.0	1.777	2.695	11.3	17.8
8 19	22 53.14	-6 59.4	1.844	2.832	5.6	20.3	8 19	22 50.19	+2 47.9	1.731	2.700	7.7	17.6
8 29	22 44.16	-7 35.3	1.833	2.842	1.4	20.1	8 29	22 43.52	+1 39.9	1.709	2.706	4.3	17.4
9 8	22 35.00	-8 11.9	1.851	2.852	2.9	20.2	9 8	22 36.59	+0 20.8	1.714	2.713	3.6	17.4
9 18	22 26.58	-8 44.5	1.897	2.861	6.9	20.5	9 18	22 30.27	-1 2.5	1.746	2.719	6.6	17.6
9 28	22 19.71	-9 9.1	1.968	2.870	10.6	20.7	9 28	22 25.36	-2 22.4	1.804	2.727	10.1	17.8
10 8	22 14.96	-9 23.3	2.063	2.878	13.6	21.0	10 8	22 22.43	-3 32.6	1.886	2.734	13.4	18.0
<b>98442</b>	2000 <i>UT</i> <sub>55</sub>		8 31.9 210°26'	0°3'/31.7	18		<b>251386</b>	2007 <i>VG</i> <sub>165</sub>		9 1.0 309°14'	1°2'/1.8	18	
7 30	23 3.85	-6 9.9	2.145	3.013	11.9	19.9	7 30	23 3.24	-3 24.0	1.215	2.106	17.5	20.6
8 9	22 58.69	-6 55.4	2.066	3.007	8.7	19.7	8 9	22 59.40	-3 43.9	1.139	2.088	13.2	20.3
8 19	22 51.84	-7 51.4	2.012	3.001	5.0	19.4	8 19	22 52.80	-4 23.7	1.082	2.071	8.1	19.9
8 29	22 43.88	-8 53.7	1.986	2.994	1.1	19.1	8 29	22 44.21	-5 19.1	1.047	2.055	2.6	19.5
9 8	22 35.60	-9 56.4	1.987	2.987	3.0	19.3	9 8	22 34.90	-6 22.3	1.036	2.039	3.9	19.6
9 18	22 27.82	-10 54.0	2.018	2.979	6.8	19.5	9 18	22 26.31	-7 24.1	1.049	2.023	9.7	19.9
9 28	22 21.35	-11 41.7	2.074	2.971	10.3	19.7	9 28	22 19.87	-8 15.4	1.083	2.008	15.0	20.1
10 8	22 16.77	-12 16.4	2.154	2.962	13.4	19.9	10 8	22 16.51	-8 50.1	1.136	1.993	19.6	20.4
<b>121646</b>	1999 <i>WZ</i> <sub>7</sub>		8 31.9 183°94'	4°7'/26.5	18		<b>178471</b>	1999 <i>RN</i> <sub>163</sub>		9 1.0 344°89'	3°0'/3.2	17	
7 30	23 6.31	-24 54.2	2.762	3.641	9.2	19.2	7 30	22 57.66	+0 45.7	1.042	1.937	19.4	19.3
8 9	23 0.11	-25 34.8	2.703	3.641	7.0	19.1	8 9	22 55.44	+0 24.7	0.977	1.925	15.0	19.0
8 19	22 52.48	-26 10.9	2.669	3.640	5.3	19.0	8 19	22 50.50	-0 24.2	0.929	1.915	9.8	18.7
8 29	22 44.01	-26 37.9	2.664	3.640	4.8	18.9	8 29	22 43.66	-1 37.4	0.902	1.907	4.4	18.4
9 8	22 35.38	-26 52.1	2.687	3.639	6.1	19.0	9 8	22 36.22	-3 5.8	0.897	1.900	4.2	18.3
9 18	22 27.33	-26 51.4	2.738	3.637	8.1	19.2	9 18	22 29.65	-4 37.2	0.914	1.894	9.6	18.6
9 28	22 20.51	-26 35.3	2.814	3.636	10.3	19.3	9 28	22 25.33	-5 59.3	0.951	1.890	15.1	18.9
10 8	22 15.37	-26 4.9	2.911	3.633	12.2	19.5	10 8	22 24.12	-7 2.8	1.007	1.887	19.8	19.2
<b>162264</b>	1999 <i>UN</i> <sub>38</sub>		8 31.9 297°56'	2°3'/2.7	18		<b>340340</b>	2006 <i>DG</i> <sub>54</sub>		9 1.0 334°59'	0°1'/1.1	18	
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EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>521553</b>	2015 <i>OV</i> <sub>102</sub>	9 1.0 305°79	2°2/ 2.8 17				<b>41369</b>	2000 <i>AG</i> <sub>100</sub>	9 1.0 283°11	3°1/28.6 18	R		
7 30	23 6.78	- 2 15.2	2.147	2.997	12.6	21.2	7 30	23 1.47	-14 58.6	2.193	3.083	10.8	18.3
8 9	23 0.82	- 1 49.2	2.065	2.990	9.6	21.0	8 9	22 57.00	-15 58.7	2.119	3.072	7.8	18.1
8 19	22 53.10	- 1 32.8	2.006	2.983	6.2	20.8	8 19	22 50.91	-17 3.0	2.070	3.061	4.7	17.9
8 29	22 44.22	- 1 25.1	1.973	2.976	2.9	20.5	8 29	22 43.73	-18 5.7	2.048	3.049	3.1	17.8
9 8	22 34.99	- 1 23.7	1.969	2.969	3.0	20.5	9 8	22 36.25	-19 0.7	2.054	3.038	5.0	17.9
9 18	22 26.29	- 1 25.9	1.994	2.962	6.4	20.7	9 18	22 29.25	-19 43.2	2.087	3.026	8.2	18.1
9 28	22 18.95	- 1 28.4	2.045	2.955	9.8	20.9	9 28	22 23.51	-20 10.0	2.145	3.015	11.2	18.2
10 8	22 13.57	- 1 27.9	2.120	2.948	12.8	21.1	10 8	22 19.61	-20 20.0	2.224	3.003	13.9	18.4
<b>466916</b>	2015 <i>HY</i> <sub>5</sub>	9 1.0 285°12	1°3/ 3.3 16				<b>516480</b>	2005 <i>UK</i> <sub>36</sub>	9 1.0 243°65	2°0/ 3.2 18			
7 30	22 56.37	- 0 37.4	4.398	5.231	6.9	21.4	7 30	23 1.40	+ 0 9.5	2.308	3.155	11.9	22.1
8 9	22 52.55	- 0 41.4	4.313	5.228	5.3	21.3	8 9	22 56.83	- 0 10.3	2.226	3.149	9.1	21.9
8 19	22 48.00	- 0 51.6	4.253	5.225	3.4	21.2	8 19	22 50.75	- 0 43.3	2.167	3.143	5.9	21.7
8 29	22 42.99	- 1 6.9	4.222	5.222	1.7	21.0	8 29	22 43.69	- 1 27.1	2.135	3.137	2.7	21.5
9 8	22 37.87	- 1 25.6	4.220	5.219	1.6	21.0	9 8	22 36.35	- 2 17.7	2.130	3.131	2.7	21.5
9 18	22 32.97	- 1 45.8	4.248	5.216	3.3	21.2	9 18	22 29.44	- 3 10.5	2.154	3.124	5.8	21.7
9 28	22 28.62	- 2 5.8	4.305	5.213	5.1	21.3	9 28	22 23.69	- 4 0.4	2.205	3.118	9.1	21.9
10 8	22 25.12	- 2 23.4	4.389	5.210	6.8	21.4	10 8	22 19.62	- 4 43.4	2.280	3.111	12.0	22.1
<b>365332</b>	2009 <i>SA</i> <sub>181</sub>	9 1.0 139°98	1°0/30.9 18				<b>60263</b>	1999 <i>XB</i> <sub>20</sub>	9 1.0 329°78	10°7/23.4 18			
7 30	23 3.75	-10 28.6	2.405	3.280	10.5	21.1	7 30	23 6.44	-30 41.5	1.369	2.272	15.1	17.6
8 9	22 58.39	-10 48.9	2.338	3.283	7.6	20.9	8 9	23 1.68	-32 3.0	1.314	2.255	12.5	17.4
8 19	22 51.56	-11 14.0	2.295	3.286	4.3	20.7	8 19	22 54.06	-33 13.3	1.270	2.239	10.9	17.3
8 29	22 43.84	-11 40.6	2.280	3.288	1.2	20.4	8 29	22 44.52	-34 0.4	1.267	2.224	11.0	17.2
9 8	22 35.94	-12 4.7	2.294	3.291	3.0	20.6	9 8	22 34.52	-34 15.2	1.277	2.210	13.0	17.3
9 18	22 28.58	-12 22.9	2.336	3.293	6.3	20.8	9 18	22 25.60	-33 54.3	1.308	2.197	15.9	17.5
9 28	22 22.42	-12 32.7	2.405	3.295	9.3	21.0	9 28	22 19.10	-32 59.4	1.357	2.185	18.9	17.6
10 8	22 17.97	-12 32.6	2.497	3.298	11.9	21.2	10 8	22 15.78	-31 36.0	1.423	2.173	21.6	17.8
<b>223915</b>	2004 <i>VU</i> <sub>90</sub>	9 1.0 177°25	0°8/31.1 18				<b>509385</b>	2007 <i>CM</i> <sub>11</sub>	9 1.0 113°91	3°9/ 5.4 18			
7 30	23 1.88	- 9 3.2	2.609	3.480	9.9	21.0	7 30	23 6.44	+ 6 9.0	2.735	3.535	11.5	21.5
8 9	22 56.96	- 9 36.6	2.538	3.481	7.2	20.9	8 9	23 0.13	+ 6 32.3	2.668	3.553	9.2	21.4
8 19	22 50.72	-10 16.0	2.492	3.482	4.1	20.7	8 19	22 52.51	+ 6 42.7	2.624	3.571	6.7	21.3
8 29	22 43.65	-10 57.8	2.474	3.482	1.0	20.4	8 29	22 44.10	+ 6 40.5	2.608	3.589	4.6	21.2
9 8	22 36.39	-11 38.0	2.485	3.483	2.8	20.6	9 8	22 35.54	+ 6 27.5	2.621	3.606	4.0	21.1
9 18	22 29.57	-12 12.9	2.525	3.483	5.9	20.8	9 18	22 27.49	+ 6 6.6	2.663	3.622	5.5	21.3
9 28	22 23.83	-12 39.4	2.592	3.482	8.8	21.0	9 28	22 20.57	+ 5 41.4	2.734	3.639	7.8	21.4
10 8	22 19.63	-12 55.6	2.683	3.482	11.3	21.1	10 8	22 15.21	+ 5 15.7	2.830	3.654	10.1	21.6
<b>269755</b>	1999 <i>RH</i> <sub>147</sub>	9 1.0 47°47	4°9/ 4.7 16				<b>429553</b>	2011 <i>CR</i> <sub>39</sub>	9 1.0 265°25	0°8/ 1.6 18			
7 30	23 6.15	+ 3 59.8	1.379	2.232	18.0	19.4	7 30	23 5.87	- 4 30.9	1.542	2.419	15.2	21.5
8 9	23 0.78	+ 4 19.2	1.333	2.253	14.1	19.2	8 9	23 0.75	- 4 49.6	1.468	2.411	11.4	21.2
8 19	22 53.16	+ 4 16.2	1.307	2.276	9.8	19.0	8 19	22 53.33	- 5 22.7	1.416	2.404	6.9	21.0
8 29	22 44.22	+ 3 52.6	1.304	2.298	6.0	18.9	8 29	22 44.35	- 6 6.0	1.388	2.396	2.0	20.6
9 8	22 35.16	+ 3 13.4	1.326	2.321	5.1	18.9	9 8	22 34.91	- 6 53.3	1.386	2.388	3.4	20.7
9 18	22 27.15	+ 2 25.5	1.373	2.344	8.2	19.1	9 18	22 26.18	- 7 38.0	1.411	2.380	8.3	21.0
9 28	22 21.20	+ 1 36.6	1.443	2.368	12.0	19.4	9 28	22 19.27	- 8 14.1	1.459	2.373	12.7	21.2
10 8	22 17.87	+ 0 53.6	1.535	2.392	15.4	19.7	10 8	22 14.93	- 8 37.3	1.529	2.365	16.6	21.5
<b>208537</b>	2001 <i>YX</i> <sub>152</sub>	9 1.0 323°43	0°6/31.6 18				<b>298130</b>	2002 <i>RD</i> <sub>255</sub>	9 1.0 1°17	1°0/31.0 18			
7 30	23 9.17	- 9 1.5	1.234	2.128	17.0	19.6	7 30	23 0.89	- 6 38.5	1.715	2.600	13.5	20.5
8 9	23 3.55	- 9 4.7	1.170	2.123	12.5	19.3	8 9	22 56.86	- 7 46.7	1.649	2.599	9.8	20.3
8 19	22 55.09	- 9 18.2	1.126	2.119	7.3	19.0	8 19	22 50.92	- 9 8.1	1.607	2.599	5.6	20.1
8 29	22 44.73	- 9 36.9	1.106	2.115	1.7	18.7	8 29	22 43.76	-10 36.2	1.591	2.599	1.4	19.8
9 8	22 33.89	- 9 54.3	1.110	2.111	4.3	18.8	9 8	22 36.29	-12 2.6	1.601	2.600	3.8	20.0
9 18	22 24.08	-10 4.4	1.138	2.107	9.9	19.1	9 18	22 29.47	-13 19.6	1.638	2.600	8.1	20.2
9 28	22 16.64	-10 3.1	1.189	2.103	14.9	19.4	9 28	22 24.20	-14 21.2	1.700	2.601	12.0	20.5
10 8	22 12.38	- 9 48.2	1.259	2.100	19.1	19.7	10 8	22 21.09	-15 4.1	1.784	2.601	15.3	20.7
<b>289002</b>	2004 <i>TF</i> <sub>75</sub>	9 1.0 223°28	3°2/ 4.8 18				<b>510132</b>	2010 <i>UY</i> <sub>57</sub>	9 1.0 321°01	5°0/28.8 17			
7 30	23 0.25	+ 4 36.3	2.323	3.151	12.5	20.8	7 30	23 6.19	-16 41.6	1.189	2.101	16.2	21.1
8 9	22 55.96	+ 4 19.2	2.244	3.151	9.8	20.6	8 9	23 1.62	-17 27.8	1.124	2.087	12.0	20.8
8 19	22 50.22	+ 3 46.1	2.188	3.151	6.8	20.4	8 19	22 54.11	-18 18.2	1.080	2.073	7.5	20.5
8 29	22 43.55	+ 2 58.9	2.158	3.151	4.1	20.2	8 29	22 44.57	-19 3.2	1.058	2.060	5.0	20.3
9 8	22 36.64	+ 2 1.3	2.155	3.150	3.4	20.2	9 8	22 34.43	-19 33.1	1.060	2.047	7.8	20.4
9 18	22 30.18	+ 0 58.3	2.181	3.150	5.8	20.3	9 18	22 25.29	-19 41.3	1.084	2.036	12.5	20.7
9 28	22 24.86	- 0 4.8	2.233	3.150	8.7	20.5	9 28	22 18.55	-19 25.2	1.129	2.025	17.1	20.9
10 8	22 21.18	- 1 2.7	2.310	3.150	11.5	20.7	10 8	22 15.09	-18 46.1	1.191	2.014	21.1	21.1
<b>289669</b>	2005 <i>GS</i> <sub>137</sub>	9 1.0 332°84	7°1/ 8.0 18				<b>54883</b>	2001 <i>OS</i> <sub>57</sub>	9 1.0 157°89	1°1/31.0 18			
7 30	22 59.52	+12 29.0	1.674	2.482	17.3	20.3	7 30	23 3.64	- 9 20.5	2.004	2.884	12.1	18.3
8 9	22 56.02	+12 34.3	1.592	2.474	14.5	20.1	8 9	22 58.60	- 9 54.4	1.937	2.885	8.7	18.1
8 19	22 50.53	+12 12.4	1.529	2.466	11.4	19.9	8 19	22 51.83	-10 36.0	1.894	2.885	5.0	17.9
8 29	22 43.66	+11 22.5	1.488	2.458	8.5	19.7	8 29	22 43.97	-11 20.5	1.877	2.886	1.3	17.7
9 8	22 36.35	+10 7.8	1.471	2.451	7.1	19.6	9 8	22 35.86	-12 2.6	1.889	2.886	3.4	17.8
9 18	22 29.60	+ 8 35.0	1.479	2.444	8.5	19.7	9 18	22 28.36	-12 37.4	1.927	2.887	7.3	18.1
9 28	22 24.39	+ 6 53.6	1.512	2.438	11.4	19.8	9 28	22 22.29	-13 1.3	1.991	2.887	10.8	18.3
10 8	22 21.43	+ 5 13.5	1.567	2.432	14.7	20.0	10 8	22 18.19	-13 12.3	2.078	2.887	13.7	18.5
<b>301215</b>	2009 <i>AL</i> <sub>46</sub>	9 1.0 20°89	1°7/ 2.3 18				<b>359604</b>	2010 <i>WZ</i> <sub>9</sub>	9 1.0 279°13	0°4/31.			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>235163</b>	2003 <i>SK</i> <sub>8</sub>	9 1.0	6°85	0°5/	1.4	18	<b>351873</b>	2006 <i>SS</i> <sub>77</sub>	9 1.0	182°81	0°4/	1.4	18
7 30	23 2.51	- 5 10.7	1.396	2.285	15.8	20.2	7 30	23 4.21	- 5 36.1	2.128	2.994	12.0	21.4
8 9	22 58.34	- 5 31.4	1.335	2.285	11.7	19.9	8 9	22 58.93	- 5 54.2	2.056	2.994	8.9	21.2
8 19	22 51.91	- 6 6.7	1.296	2.286	6.9	19.7	8 19	22 52.01	- 6 21.7	2.008	2.994	5.3	21.0
8 29	22 44.01	- 6 51.6	1.280	2.288	1.8	19.4	8 29	22 44.03	- 6 55.4	1.986	2.994	1.4	20.8
9 8	22 35.78	- 7 39.3	1.289	2.291	3.5	19.5	9 8	22 35.79	- 7 30.8	1.993	2.994	2.6	20.9
9 18	22 28.40	- 8 22.8	1.323	2.294	8.4	19.8	9 18	22 28.12	- 8 3.5	2.027	2.993	6.4	21.1
9 28	22 22.93	- 8 55.9	1.380	2.298	12.9	20.1	9 28	22 21.79	- 8 29.7	2.089	2.993	9.9	21.3
10 8	22 20.02	- 9 14.9	1.457	2.303	16.7	20.3	10 8	22 17.34	- 8 46.4	2.173	2.992	12.9	21.5
<b>469564</b>	2003 <i>UK</i> <sub>378</sub>	9 1.0	294°08	2°7/29.8	17		<b>358638</b>	2007 <i>VT</i> <sub>264</sub>	9 1.0	298°00	3°0/	3.7	18
7 30	23 6.64	-13 12.7	1.779	2.667	13.0	22.2	7 30	23 3.22	+ 1 23.2	1.855	2.705	14.2	21.0
8 9	23 1.38	-13 50.8	1.680	2.632	9.5	22.0	8 9	22 58.50	+ 1 21.8	1.776	2.699	11.0	20.8
8 19	22 53.80	-14 35.9	1.605	2.597	5.7	21.7	8 19	22 51.90	+ 1 4.3	1.718	2.692	7.4	20.6
8 29	22 44.51	-15 22.0	1.556	2.561	2.7	21.4	8 29	22 44.03	+ 0 32.4	1.686	2.685	3.9	20.3
9 8	22 34.48	-16 2.3	1.534	2.526	5.1	21.5	9 8	22 35.77	- 0 9.9	1.680	2.679	3.6	20.3
9 18	22 24.86	-16 30.6	1.538	2.489	9.5	21.6	9 18	22 28.08	- 0 57.1	1.701	2.672	6.9	20.5
9 28	22 16.79	-16 42.8	1.567	2.453	13.7	21.8	9 28	22 21.84	- 1 43.5	1.747	2.666	10.6	20.7
10 8	22 11.17	-16 37.1	1.616	2.416	17.4	22.0	10 8	22 17.71	- 2 23.5	1.817	2.660	14.0	20.9
<b>220506</b>	2004 <i>DE</i> <sub>35</sub>	9 1.0	111°81	2°9/	3.6	18	<b>149171</b>	2002 <i>GE</i> <sub>146</sub>	9 1.0	213°13	3°9/27.6	18	
7 30	23 6.55	+ 1 48.8	1.699	2.547	15.4	20.8	7 30	23 2.11	-17 41.9	2.229	3.120	10.6	19.9
8 9	23 0.85	+ 1 32.5	1.640	2.562	11.8	20.6	8 9	22 57.42	-18 49.1	2.167	3.119	7.7	19.7
8 19	22 53.18	+ 0 58.0	1.603	2.577	7.8	20.4	8 19	22 51.13	-19 58.0	2.131	3.118	5.0	19.5
8 29	22 44.29	+ 0 8.4	1.591	2.591	3.9	20.2	8 29	22 43.83	-21 2.1	2.122	3.117	3.9	19.5
9 8	22 35.20	- 0 50.6	1.606	2.605	3.6	20.2	9 8	22 36.30	-21 55.6	2.141	3.115	5.7	19.6
9 18	22 26.93	- 1 52.5	1.648	2.619	7.1	20.5	9 18	22 29.31	-22 34.2	2.186	3.114	8.5	19.8
9 28	22 20.38	- 2 50.3	1.716	2.632	10.9	20.8	9 28	22 23.63	-22 55.5	2.257	3.112	11.3	19.9
10 8	22 16.14	- 3 38.9	1.806	2.645	14.3	21.0	10 8	22 19.77	-22 59.3	2.348	3.111	13.7	20.1
<b>294741</b>	2008 <i>CX</i> <sub>1</sub>	9 1.0	123°73	0°7/	1.6	17	<b>390920</b>	2005 <i>EG</i> <sub>235</sub>	9 1.0	132°21	1°1/30.9	18	
7 30	23 8.66	- 4 22.9	1.725	2.590	14.4	21.2	7 30	23 5.32	- 9 41.9	2.092	2.968	11.8	22.0
8 9	23 2.34	- 4 43.9	1.668	2.605	10.6	21.0	8 9	22 59.70	-10 16.2	2.032	2.977	8.5	21.8
8 19	22 54.02	- 5 17.1	1.633	2.619	6.4	20.7	8 19	22 52.42	-10 57.2	1.996	2.986	4.9	21.6
8 29	22 44.49	- 5 58.5	1.625	2.633	1.9	20.5	8 29	22 44.13	-11 40.2	1.986	2.995	1.4	21.4
9 8	22 34.77	- 6 42.3	1.644	2.646	3.0	20.6	9 8	22 35.66	-12 20.1	2.006	3.003	3.4	21.5
9 18	22 25.91	- 7 22.9	1.691	2.658	7.4	20.9	9 18	22 27.85	-12 52.6	2.053	3.011	7.0	21.8
9 28	22 18.83	- 7 55.4	1.763	2.670	11.3	21.2	9 28	22 21.46	-13 14.4	2.126	3.018	10.4	22.0
10 8	22 14.10	- 8 16.8	1.858	2.681	14.6	21.4	10 8	22 17.01	-13 23.8	2.222	3.025	13.2	22.2
<b>89969</b>	2002 <i>RW</i> <sub>87</sub>	9 1.0	331°84	0°2/31.9	18		<b>454919</b>	2015 <i>TR</i> <sub>146</sub>	9 1.0	15°92	9°1/25.2	18	
7 30	23 1.85	- 7 31.8	1.088	1.997	17.7	19.2	7 30	23 9.22	-31 54.9	1.670	2.558	13.7	19.6
8 9	22 58.62	- 7 41.4	1.016	1.977	13.2	18.9	8 9	23 2.97	-32 40.3	1.631	2.563	11.2	19.5
8 19	22 52.48	- 8 5.9	0.963	1.958	7.8	18.5	8 19	22 54.42	-33 12.1	1.615	2.569	9.5	19.4
8 29	22 44.22	- 8 40.0	0.931	1.940	1.8	18.1	8 29	22 44.59	-33 22.6	1.622	2.577	9.3	19.4
9 8	22 35.22	- 9 16.0	0.921	1.923	4.5	18.2	9 8	22 34.73	-33 7.0	1.653	2.584	10.7	19.5
9 18	22 27.03	- 9 45.7	0.933	1.908	10.6	18.5	9 18	22 26.06	-32 24.7	1.708	2.593	13.0	19.7
9 28	22 21.17	-10 2.0	0.966	1.894	16.1	18.8	9 28	22 19.55	-31 18.4	1.784	2.603	15.4	19.9
10 8	22 18.60	-10 1.0	1.017	1.882	20.8	19.0	10 8	22 15.73	-29 53.0	1.879	2.613	17.6	20.1
<b>113544</b>	2002 <i>TE</i> <sub>27</sub>	9 1.0	347°24	2°4/	3.2	18	<b>162100</b>	1998 <i>QD</i> <sub>67</sub>	9 1.0	331°53	9°1/	8.0	18
7 30	23 1.86	+ 0 15.7	1.706	2.568	14.7	18.9	7 30	23 3.31	+13 2.5	1.577	2.380	18.4	19.0
8 9	22 57.59	- 0 0.1	1.634	2.565	11.3	18.7	8 9	22 59.02	+14 3.0	1.496	2.369	15.7	18.8
8 19	22 51.38	- 0 33.1	1.584	2.563	7.3	18.5	8 19	22 52.43	+14 38.9	1.433	2.359	12.8	18.6
8 29	22 43.89	- 1 20.4	1.558	2.560	3.4	18.2	8 29	22 44.21	+14 46.7	1.392	2.349	10.2	18.4
9 8	22 36.06	- 2 16.7	1.558	2.559	3.3	18.2	9 8	22 35.38	+14 26.5	1.373	2.340	9.1	18.3
9 18	22 28.86	- 3 15.5	1.584	2.557	7.1	18.5	9 18	22 27.11	+13 42.1	1.379	2.331	10.2	18.4
9 28	22 23.21	- 4 10.2	1.635	2.556	11.1	18.7	9 28	22 20.56	+12 41.1	1.407	2.323	12.9	18.5
10 8	22 19.76	- 4 55.3	1.709	2.555	14.6	18.9	10 8	22 16.55	+11 33.0	1.456	2.316	15.9	18.7
<b>204943</b>	2008 <i>UA</i> <sub>263</sub>	9 1.0	226°24	5°2/	6.7	18	<b>480604</b>	2015 <i>MB</i> <sub>98</sub>	9 1.0	172°29	0°9/31.1	18	
7 30	23 4.03	+10 20.3	2.401	3.189	13.3	21.5	7 30	23 2.78	- 7 58.3	1.984	2.862	12.3	21.4
8 9	22 58.81	+10 25.0	2.305	3.177	11.0	21.3	8 9	22 58.02	- 8 45.8	1.916	2.863	8.9	21.2
8 19	22 51.97	+10 11.3	2.230	3.165	8.4	21.1	8 19	22 51.53	- 9 42.8	1.872	2.864	5.1	21.0
8 29	22 44.04	+ 9 39.3	2.181	3.152	6.1	21.0	8 29	22 43.94	-10 44.1	1.855	2.864	1.3	20.7
9 8	22 35.71	+ 8 51.0	2.159	3.138	5.2	20.9	9 8	22 36.09	-11 43.6	1.866	2.864	3.4	20.9
9 18	22 27.75	+ 7 50.5	2.165	3.124	6.6	21.0	9 18	22 28.83	-12 35.7	1.905	2.865	7.3	21.1
9 28	22 20.93	+ 6 43.5	2.199	3.109	9.2	21.1	9 28	22 22.97	-13 16.0	1.968	2.865	10.8	21.3
10 8	22 15.84	+ 5 36.0	2.257	3.093	11.9	21.2	10 8	22 19.08	-13 41.9	2.055	2.865	13.8	21.5
<b>476239</b>	2007 <i>VP</i> <sub>57</sub>	9 1.0	347°98	2°5/29.8	18		<b>4449</b>	Sobinov	9 1.0	79°46	1°5/	2.6	18
7 30	23 1.67	-11 31.4	1.552	2.452	13.9	20.8	7 30	23 2.77	- 1 53.0	2.231	3.084	12.0	16.6
8 9	22 57.62	-12 28.2	1.490	2.447	10.0	20.6	8 9	22 57.77	- 2 4.1	2.165	3.094	9.0	16.4
8 19	22 51.46	-13 33.7	1.449	2.443	5.8	20.3	8 19	22 51.28	- 2 26.5	2.123	3.103	5.7	16.2
8 29	22 43.92	-14 40.7	1.433	2.440	2.6	20.1	8 29	22 43.87	- 2 57.7	2.108	3.113	2.3	16.0
9 8	22 36.03	-15 41.0	1.444	2.437	5.1	20.3	9 8	22 36.28	- 3 33.6	2.121	3.122	2.5	16.1
9 18	22 28.89	-16 27.9	1.479	2.435	9.4	20.5	9 18	22 29.25	- 4 10.2	2.162	3.131	5.8	16.3
9 28	22 23.48	-16 56.7	1.538	2.433	13.4	20.7	9 28	22 23.48	- 4 43.3	2.230	3.141	9.0	16.5
10 8	22 20.48	-17 5.9	1.616	2.432	16.7	21.0	10 8	22 19.46	- 5 9.3	2.321	3.150	11.8	16.7
<b>475163</b>	2005 <i>UZ</i> <sub>411</sub>	9 1.0	198°04	4°5/25.7	18		<b>477921</b>	2011 <i>QN</i> <sub>10</sub>	9 1.0	105°96			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>404795</b>	2014 <i>JX</i> <sub>59</sub>	9 1.0 349°95	5°5/26.2	18			<b>87894</b>	2000 <i>SF</i> <sub>295</sub>	9 1.0 168°23	5°6/27.2	18		
7 30	23 2.57	-20 46.0	1.901	2.800	11.7	20.7	7 30	23 9.96	-23 6.0	1.958	2.844	12.0	18.6
8 9	22 58.01	-22 7.5	1.846	2.798	8.8	20.6	8 9	23 3.27	-23 52.9	1.902	2.846	9.1	18.4
8 19	22 51.58	-23 28.4	1.815	2.797	6.2	20.4	8 19	22 54.58	-24 35.7	1.871	2.849	6.5	18.2
8 29	22 43.97	-24 40.6	1.811	2.796	5.6	20.4	8 29	22 44.68	-25 7.4	1.867	2.851	5.6	18.2
9 8	22 36.09	-25 37.0	1.833	2.796	7.5	20.5	9 8	22 34.59	-25 22.6	1.889	2.852	7.3	18.3
9 18	22 28.89	-26 12.9	1.880	2.795	10.4	20.7	9 18	22 25.36	-25 18.7	1.938	2.853	10.1	18.5
9 28	22 23.24	-26 26.3	1.950	2.795	13.3	20.9	9 28	22 17.89	-24 55.3	2.011	2.854	13.0	18.7
10 8	22 19.72	-26 18.3	2.040	2.794	15.8	21.0	10 8	22 12.75	-24 14.6	2.104	2.855	15.5	18.8
<b>311551</b>	2006 <i>AC</i> <sub>91</sub>	9 1.0 219°65	0°7/31.2	18			<b>78985</b>	2003 <i>UH</i> <sub>52</sub>	9 1.0 226°23	0°7/31.5	18		
7 30	23 0.73	-7 54.2	2.544	3.415	10.1	20.8	7 30	23 8.07	-9 31.1	2.104	2.975	12.0	19.6
8 9	22 56.24	-8 40.8	2.467	3.411	7.3	20.7	8 9	23 1.84	-9 40.4	2.025	2.967	8.8	19.4
8 19	22 50.40	-9 35.2	2.416	3.406	4.2	20.5	8 19	22 53.77	-9 55.7	1.970	2.959	5.1	19.2
8 29	22 43.68	-10 33.3	2.392	3.401	1.0	20.2	8 29	22 44.51	-10 13.6	1.942	2.951	1.2	18.9
9 8	22 36.73	-11 30.4	2.398	3.396	2.8	20.3	9 8	22 34.91	-10 30.0	1.944	2.943	3.1	19.0
9 18	22 30.19	-12 22.1	2.432	3.390	6.0	20.6	9 18	22 25.89	-10 41.1	1.973	2.934	7.0	19.2
9 28	22 24.70	-13 4.6	2.493	3.385	9.0	20.7	9 28	22 18.32	-10 44.2	2.029	2.924	10.6	19.4
10 8	22 20.75	-13 35.4	2.578	3.379	11.6	20.9	10 8	22 12.79	-10 37.5	2.108	2.915	13.7	19.6
<b>245343</b>	2005 <i>ES</i> <sub>181</sub>	9 1.0 90°75	3°0/29.5	18			<b>252743</b>	2002 <i>EJ</i> <sub>1</sub>	9 1.0 236°86	0°3/31.5	17		
7 30	23 7.05	-15 2.2	1.841	2.730	12.6	20.2	7 30	22 54.78	-7 53.3	4.670	5.533	6.0	20.6
8 9	23 1.13	-15 37.0	1.788	2.739	9.1	20.0	8 9	22 51.44	-8 24.5	4.589	5.528	4.3	20.5
8 19	22 53.31	-16 14.2	1.759	2.749	5.4	19.8	8 19	22 47.42	-8 59.6	4.535	5.523	2.5	20.4
8 29	22 44.36	-16 48.2	1.755	2.759	3.0	19.6	8 29	22 42.97	-9 36.6	4.509	5.518	0.6	20.2
9 8	22 35.26	-17 13.4	1.780	2.768	5.0	19.8	9 8	22 38.42	-10 13.5	4.514	5.513	1.5	20.3
9 18	22 26.99	-17 26.0	1.831	2.778	8.5	20.0	9 18	22 34.06	-10 48.2	4.548	5.507	3.4	20.4
9 28	22 20.40	-17 24.1	1.906	2.787	11.9	20.2	9 28	22 30.22	-11 18.7	4.612	5.502	5.2	20.6
10 8	22 16.05	-17 7.7	2.003	2.796	14.8	20.5	10 8	22 27.15	-11 43.6	4.700	5.496	6.8	20.7
<b>269631</b>	2011 <i>AG</i> <sub>29</sub>	9 1.0 113°42	5°4/27.9	17			<b>153418</b>	2001 <i>QE</i> <sub>174</sub>	9 1.0 320°19	0°2/31.9	18		
7 30	23 9.88	-14 41.3	1.189	2.093	16.8	20.5	7 30	23 6.39	-8 10.1	1.361	2.253	15.9	19.5
8 9	23 3.95	-16 35.9	1.151	2.110	12.1	20.3	8 9	23 1.46	-8 11.8	1.288	2.240	11.8	19.2
8 19	22 55.23	-16 36.3	1.135	2.127	7.5	20.1	8 19	22 53.93	-8 24.1	1.235	2.227	6.9	18.9
8 29	22 44.83	-20 28.6	1.144	2.142	5.5	20.0	8 29	22 44.59	-8 42.6	1.206	2.214	1.6	18.5
9 8	22 34.26	-22 0.0	1.177	2.158	8.3	20.2	9 8	22 34.69	-9 1.5	1.201	2.203	3.9	18.7
9 18	22 25.01	-23 2.5	1.234	2.172	12.7	20.5	9 18	22 25.58	-9 15.2	1.222	2.191	9.2	19.0
9 28	22 18.30	-23 33.7	1.313	2.186	16.7	20.8	9 28	22 18.53	-9 18.9	1.265	2.181	14.1	19.2
10 8	22 14.77	-23 35.8	1.409	2.199	20.0	21.1	10 8	22 14.37	-9 9.9	1.328	2.171	18.2	19.4
<b>388975</b>	2008 <i>UW</i> <sub>24</sub>	9 1.0 295°91	5°4/27.6	18			<b>226361</b>	2003 <i>HP</i> <sub>13</sub>	9 1.0 267°10	2°3/27.7	17		
7 30	23 6.29	-19 31.0	1.611	2.511	13.4	21.1	7 30	22 57.44	-20 3.7	4.384	5.265	6.0	20.1
8 9	23 1.16	-20 27.7	1.538	2.493	10.0	20.9	8 9	22 53.39	-20 30.9	4.314	5.259	4.4	20.0
8 19	22 53.65	-21 25.3	1.488	2.475	6.7	20.6	8 19	22 48.55	-20 57.1	4.271	5.254	2.9	19.9
8 29	22 44.50	-22 15.7	1.463	2.457	5.4	20.5	8 29	22 43.24	-21 20.2	4.257	5.248	2.4	19.8
9 8	22 34.84	-22 50.6	1.464	2.439	7.6	20.6	9 8	22 37.82	-21 37.7	4.272	5.242	3.3	19.9
9 18	22 25.91	-23 4.9	1.489	2.421	11.3	20.8	9 18	22 32.66	-21 48.2	4.316	5.237	4.9	20.0
9 28	22 18.84	-22 56.3	1.536	2.404	15.0	21.0	9 28	22 28.12	-21 50.5	4.387	5.231	6.5	20.1
10 8	22 14.41	-22 26.0	1.603	2.387	18.2	21.2	10 8	22 24.50	-21 44.2	4.482	5.226	7.9	20.2
<b>344116</b>	1999 <i>VB</i> <sub>83</sub>	9 1.0 198°37	10°1/23.2	18			<b>292981</b>	2006 <i>VF</i> <sub>151</sub>	9 1.0 30°07	6°0/26.4	18		
7 30	23 15.09	-37 2.7	1.960	2.822	13.1	20.8	7 30	23 4.85	-22 51.1	1.814	2.712	12.3	20.3
8 9	23 7.18	-38 1.6	1.916	2.821	11.3	20.7	8 9	22 59.69	-23 56.5	1.765	2.715	9.3	20.1
8 19	22 56.89	-38 44.6	1.894	2.819	10.2	20.6	8 19	22 52.56	-24 58.4	1.740	2.719	6.8	20.0
8 29	22 45.20	-39 3.4	1.897	2.818	10.3	20.6	8 29	22 44.22	-25 49.0	1.740	2.723	6.1	20.0
9 8	22 33.42	-38 53.1	1.924	2.816	11.5	20.7	9 8	22 35.68	-26 21.9	1.766	2.727	7.9	20.1
9 18	22 22.80	-38 13.2	1.974	2.813	13.5	20.8	9 18	22 27.96	-26 33.5	1.817	2.731	10.8	20.3
9 28	22 14.41	-37 6.8	2.046	2.811	15.5	20.9	9 28	22 21.96	-26 23.2	1.891	2.736	13.6	20.5
10 8	22 8.82	-35 39.2	2.135	2.808	17.3	21.1	10 8	22 18.25	-25 52.9	1.984	2.741	16.1	20.6
<b>339072</b>	2004 <i>QK</i> <sub>13</sub>	9 1.0 289°92	0°7/31.7	16			<b>141783</b>	2002 <i>NY</i> <sub>12</sub>	9 1.0 20°11	0°7/1.6	17		
7 30	23 16.68	-11 1.4	1.873	2.737	13.5	20.1	7 30	22 59.66	-4 0.0	0.905	1.818	19.9	19.1
8 9	23 8.79	-10 42.3	1.760	2.698	10.1	19.8	8 9	22 56.92	-4 29.7	0.866	1.828	14.7	18.8
8 19	22 58.23	-10 26.1	1.671	2.659	6.0	19.5	8 19	22 51.31	-5 21.1	0.845	1.839	8.7	18.6
8 29	22 45.65	-10 9.6	1.610	2.619	1.5	19.1	8 29	22 43.94	-6 26.6	0.844	1.853	2.4	18.2
9 8	22 32.10	-9 49.3	1.579	2.578	3.7	19.2	9 8	22 36.36	-7 35.1	0.865	1.868	4.2	18.4
9 18	22 18.90	-9 22.4	1.577	2.537	8.6	19.4	9 18	22 30.06	-8 35.6	0.907	1.885	10.1	18.8
9 28	22 7.35	-8 47.3	1.603	2.495	13.1	19.6	9 28	22 26.28	-9 19.7	0.969	1.903	15.3	19.2
10 8	21 58.46	-8 3.4	1.652	2.452	17.1	19.7	10 8	22 25.62	-9 43.1	1.048	1.922	19.6	19.5
<b>151378</b>	2002 <i>EH</i> <sub>43</sub>	9 1.0 66°24	2°5/3.9	18			<b>96145</b>	3808 <i>T</i> <sub>-3</sub>	9 1.0 195°31	7°1/23.4	18		
7 30	22 59.96	+ 2 54.5	2.152	2.993	12.9	19.7	7 30	23 9.37	-34 18.8	2.777	3.638	9.7	19.9
8 9	22 55.85	+ 2 16.9	2.080	2.998	9.9	19.5	8 9	23 2.47	-35 8.5	2.726	3.636	8.2	19.8
8 19	22 50.22	+ 1 22.6	2.032	3.003	6.6	19.3	8 19	22 53.98	-35 48.0	2.700	3.633	7.2	19.7
8 29	22 43.65	+ 0 14.8	2.009	3.009	3.4	19.1	8 29	22 44.54	-36 12.0	2.701	3.630	7.3	19.7
9 8	22 36.85	- 1 1.5	2.015	3.014	2.9	19.1	9 8	22 34.97	-36 16.9	2.728	3.626	8.3	19.8
9 18	22 30.58	- 2 20.2	2.048	3.020	5.9	19.3	9 18	22 26.08	-36 1.4	2.781	3.623	9.9	19.9
9 28	22 25.52	- 3 35.1	2.109	3.025	9.2	19.5	9 28	22 18.62	-35 26.2	2.858	3.618	11.6	20.0
10 8	22 22.20	- 4 40.9	2.193	3.031	12.1	19.7	10 8	22 13.07	-34 34.1	2.954	3.614	13.2	20.1
<b>471223</b>	2010 <i>XJ</i> <sub>46</sub>	9 1.0 193°19	8°0/7.7	18			<b>487027</b>	2014 <i>OF</i> <sub>23</sub>	9 1.0 233°19	3°8/4.9	18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>127195</b>	2002 <i>GK</i> <sub>177</sub>		9 1.1 121°41'	4.3/27.1	18		<b>133300</b>	2003 <i>SB</i> <sub>40</sub>		9 1.1 307°86'	4.7/4.5	18	
7 30	23 2.47	-19 29.8	2.228	3.121	10.5	20.3	7 30	23 2.67	+ 4 2.3	1.302	2.164	18.4	19.6
8 9	22 57.69	-20 36.5	2.171	3.122	7.8	20.1	8 9	22 58.89	+ 4 1.5	1.224	2.151	14.6	19.3
8 19	22 51.31	-21 43.1	2.140	3.124	5.2	20.0	8 19	22 52.54	+ 3 35.3	1.164	2.137	10.2	19.0
8 29	22 43.93	-22 43.3	2.135	3.125	4.4	19.9	8 29	22 44.35	+ 2 44.4	1.127	2.124	6.0	18.8
9 8	22 36.35	-23 31.5	2.158	3.126	6.1	20.0	9 8	22 35.48	+ 1 34.4	1.112	2.111	5.1	18.7
9 18	22 29.34	-24 3.6	2.207	3.128	8.8	20.2	9 18	22 27.29	+ 0 13.8	1.122	2.098	8.9	18.9
9 28	22 23.66	-24 17.7	2.281	3.129	11.5	20.4	9 28	22 21.08	- 1 6.7	1.155	2.086	13.7	19.1
10 8	22 19.82	-24 14.2	2.375	3.130	13.8	20.5	10 8	22 17.74	- 2 17.6	1.207	2.074	18.1	19.3
<b>106563</b>	2000 <i>WR</i> <sub>85</sub>		9 1.1 356°06'	2.5/2.9	18		<b>310104</b>	2010 <i>UX</i> <sub>28</sub>		9 1.1 282°65'	3.2/7.7	17	
7 30	23 0.02	- 1 44.7	1.378	2.261	16.3	18.0	7 30	22 54.95	+11 4.3	4.493	5.260	7.8	20.6
8 9	22 56.65	- 1 35.8	1.311	2.255	12.4	17.8	8 9	22 51.62	+10 57.7	4.402	5.258	6.5	20.5
8 19	22 51.02	- 1 43.8	1.265	2.249	8.0	17.5	8 19	22 47.57	+10 40.9	4.334	5.256	5.0	20.4
8 29	22 43.91	- 2 6.3	1.241	2.246	3.6	17.3	8 29	22 43.07	+10 14.3	4.293	5.254	3.7	20.3
9 8	22 36.40	- 2 38.1	1.241	2.243	3.7	17.3	9 8	22 38.45	+ 9 39.5	4.279	5.251	3.2	20.3
9 18	22 29.64	- 3 13.1	1.266	2.243	8.1	17.5	9 18	22 34.04	+ 8 58.4	4.295	5.249	3.8	20.3
9 28	22 24.71	- 3 44.6	1.314	2.243	12.5	17.8	9 28	22 30.17	+ 8 13.4	4.339	5.247	5.1	20.4
10 8	22 22.31	- 4 7.2	1.381	2.245	16.4	18.0	10 8	22 27.10	+ 7 27.5	4.410	5.245	6.5	20.5
<b>255322</b>	2005 <i>WC</i> <sub>30</sub>		9 1.1 176°65'	3.7/27.6	18		<b>476859</b>	2008 <i>UM</i> <sub>341</sub>		9 1.1 333°34'	2.0/30.8	18	
7 30	23 3.64	-19 39.0	2.624	3.508	9.4	20.9	7 30	23 4.94	-11 36.9	1.332	2.233	15.6	20.5
8 9	22 58.32	-20 29.6	2.563	3.509	6.9	20.8	8 9	23 0.44	-11 52.7	1.262	2.220	11.4	20.2
8 19	22 51.59	-21 19.5	2.527	3.511	4.6	20.6	8 19	22 53.37	-12 16.2	1.213	2.207	6.6	19.9
8 29	22 44.01	-22 3.8	2.520	3.511	3.7	20.6	8 29	22 44.52	-12 41.6	1.187	2.195	2.2	19.6
9 8	22 36.24	-22 38.2	2.542	3.512	5.2	20.7	9 8	22 35.16	-13 1.9	1.186	2.184	4.9	19.8
9 18	22 28.98	-22 59.5	2.591	3.512	7.6	20.8	9 18	22 26.63	-13 11.5	1.209	2.174	9.9	20.0
9 28	22 22.89	-23 6.3	2.665	3.512	10.1	21.0	9 28	22 20.18	-13 6.4	1.255	2.165	14.6	20.3
10 8	22 18.42	-22 58.5	2.762	3.511	12.2	21.2	10 8	22 16.61	-12 45.4	1.319	2.157	18.6	20.5
<b>114838</b>	2003 <i>OD</i> <sub>29</sub>		9 1.1 318°26'	3.7/28.7	18		<b>170999</b>	1999 <i>JE</i> <sub>37</sub>		9 1.1 319°47'	3.0/29.9	18	
7 30	23 0.76	-12 46.2	1.455	2.361	14.2	19.3	7 30	23 4.39	-13 7.3	1.358	2.262	15.2	17.1
8 9	22 57.28	-14 4.8	1.382	2.342	10.3	19.0	8 9	23 0.10	-13 43.5	1.284	2.243	11.1	16.8
8 19	22 51.48	-15 34.1	1.330	2.325	6.2	18.7	8 19	22 53.21	-14 27.5	1.231	2.225	6.6	16.5
8 29	22 44.05	-17 5.2	1.303	2.307	3.7	18.5	8 29	22 44.50	-15 11.9	1.201	2.208	3.1	16.2
9 8	22 36.07	-18 27.8	1.302	2.290	6.4	18.7	9 8	22 35.19	-15 48.6	1.197	2.191	5.8	16.4
9 18	22 28.74	-19 33.0	1.324	2.274	10.9	18.9	9 18	22 26.62	-16 10.7	1.216	2.174	10.6	16.6
9 28	22 23.21	-20 14.8	1.369	2.258	15.1	19.1	9 28	22 20.09	-16 14.1	1.257	2.159	15.2	16.8
10 8	22 20.28	-20 31.4	1.433	2.243	18.8	19.3	10 8	22 16.44	-15 57.5	1.316	2.144	19.2	17.0
<b>315369</b>	2007 <i>VG</i> <sub>6</sub>		9 1.1 212°07'	1.7/4.5	18 R		<b>400475</b>	2008 <i>GG</i> <sub>47</sub>		9 1.1 172°10'	8.2/21.3	18	
7 30	22 55.97	+ 2 37.0	4.820	5.635	6.7	20.8	7 30	23 6.84	-35 44.1	2.502	3.368	10.5	20.8
8 9	22 52.28	+ 2 33.9	4.731	5.632	5.2	20.7	8 9	23 0.88	-37 2.1	2.463	3.370	9.0	20.7
8 19	22 47.92	+ 2 24.0	4.669	5.629	3.6	20.5	8 19	22 53.18	-38 8.6	2.448	3.371	8.3	20.7
8 29	22 43.14	+ 2 8.4	4.634	5.626	2.1	20.4	8 29	22 44.42	-38 57.0	2.458	3.373	8.5	20.7
9 8	22 38.25	+ 1 48.3	4.629	5.623	1.8	20.4	9 8	22 35.48	-39 22.8	2.494	3.374	9.7	20.8
9 18	22 33.55	+ 1 25.5	4.653	5.620	3.1	20.5	9 18	22 27.25	-39 24.5	2.553	3.374	11.3	20.9
9 28	22 29.35	+ 1 1.8	4.707	5.616	4.7	20.6	9 28	22 20.53	-39 3.0	2.634	3.375	13.0	21.0
10 8	22 25.92	+ 0 39.2	4.787	5.613	6.2	20.7	10 8	22 15.86	-38 21.1	2.732	3.375	14.5	21.1
<b>449794</b>	2014 <i>OG</i> <sub>233</sub>		9 1.1 334°35'	3.7/28.5	18		<b>522826</b>	2016 <i>NH</i> <sub>82</sub>		9 1.1 301°47'	9.0/7.9	18	
7 30	23 2.15	-16 38.3	1.941	2.837	11.7	20.4	7 30	23 5.66	+13 38.4	1.684	2.476	17.9	21.2
8 9	22 57.69	-17 28.8	1.875	2.829	8.5	20.2	8 9	23 0.68	+14 38.7	1.602	2.466	15.3	21.0
8 19	22 51.43	-18 21.7	1.832	2.822	5.3	20.0	8 19	22 53.43	+15 15.3	1.537	2.457	12.5	20.8
8 29	22 44.01	-19 10.9	1.816	2.815	3.7	19.9	8 29	22 44.55	+15 24.8	1.495	2.447	10.1	20.7
9 8	22 36.29	-19 50.2	1.827	2.809	5.7	20.0	9 8	22 35.06	+15 7.1	1.476	2.438	9.0	20.6
9 18	22 29.19	-20 15.0	1.863	2.803	8.9	20.2	9 18	22 26.11	+14 25.7	1.481	2.429	10.1	20.6
9 28	22 23.54	-20 22.9	1.924	2.797	12.1	20.4	9 28	22 18.83	+13 27.6	1.510	2.421	12.6	20.8
10 8	22 19.95	-20 13.5	2.005	2.792	15.0	20.6	10 8	22 14.02	+12 22.0	1.561	2.412	15.5	20.9
<b>132459</b>	2002 <i>HU</i> <sub>6</sub>		9 1.1 27°35'	7.1/27.5	18		<b>327210</b>	2005 <i>NH</i> <sub>101</sub>		9 1.1 69°04'	0.5/1.4	17	
7 30	23 11.07	-24 47.1	1.485	2.382	14.5	19.6	7 30	23 6.60	- 4 43.3	1.392	2.274	16.3	21.0
8 9	23 4.51	-25 23.0	1.438	2.387	11.1	19.4	8 9	23 1.22	- 5 11.5	1.344	2.289	12.0	20.8
8 19	22 55.46	-25 51.5	1.414	2.392	8.1	19.2	8 19	22 53.56	- 5 54.4	1.316	2.305	7.1	20.5
8 29	22 44.95	-26 4.3	1.414	2.398	7.1	19.2	8 29	22 44.52	- 6 46.4	1.312	2.321	1.9	20.2
9 8	22 34.33	-25 55.6	1.439	2.405	8.9	19.3	9 8	22 35.32	- 7 40.1	1.335	2.337	3.5	20.4
9 18	22 24.93	-25 23.7	1.489	2.411	12.0	19.5	9 18	22 27.13	- 8 28.3	1.382	2.352	8.4	20.7
9 28	22 17.83	-24 30.1	1.560	2.419	15.3	19.7	9 28	22 21.00	- 9 5.2	1.454	2.368	12.7	21.0
10 8	22 13.61	-23 18.8	1.651	2.427	18.1	20.0	10 8	22 17.50	- 9 27.5	1.546	2.384	16.3	21.3
<b>300414</b>	2007 <i>RC</i> <sub>296</sub>		9 1.1 89°69'	0.4/31.7	18		<b>308899</b>	1993 <i>FU</i> <sub>6</sub>		9 1.1 146°52'	1.6/30.4	18	
7 30	23 4.33	- 7 11.4	1.825	2.702	13.2	21.0	7 30	23 3.13	-10 54.6	2.162	3.043	11.3	18.9
8 9	22 59.29	- 7 41.2	1.758	2.704	9.6	20.8	8 9	22 58.17	-11 37.3	2.097	3.046	8.1	18.7
8 19	22 52.36	- 8 21.1	1.715	2.705	5.6	20.6	8 19	22 51.62	-12 26.1	2.056	3.048	4.6	18.5
8 29	22 44.23	- 9 6.3	1.698	2.706	1.3	20.3	8 29	22 44.06	-13 16.1	2.043	3.050	1.7	18.3
9 8	22 35.83	- 9 51.3	1.708	2.708	3.2	20.4	9 8	22 36.29	-14 2.0	2.058	3.052	3.7	18.4
9 18	22 28.10	-10 30.6	1.744	2.709	7.4	20.7	9 18	22 29.08	-14 39.3	2.100	3.054	7.1	18.7
9 28	22 21.91	-10 59.7	1.807	2.710	11.2	20.9	9 28	22 23.19	-15 4.7	2.168	3.056	10.4	18.9
10 8	22 17.88	-11 16.0	1.891	2.712	14.5	21.2	10 8	22 19.14	-15 16.6	2.259	3.058	13.1	19.1
<b>435178</b>	2007 <i>RM</i> <sub>8</sub>		9 1.1 41°81'	3.0/4.1	16		<b>366000</b>	2012 <i>BA</i> <sub>95</sub>		9 1.1 251°85'	0		

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>152615</b>	1996 <i>GL</i> <sub>16</sub>		9 1.1 137°09	2°8/28.8	18		<b>472414</b>	2015 <i>BN</i> <sub>254</sub>		9 1.1 112°80	3°0/3.6	17	
7 30	23 3.20	-15 54.1	2.446	3.331	10.0	20.8	7 30	23 7.69	+ 1 19.8	1.731	2.578	15.2	20.9
8 9	22 58.06	-16 40.6	2.387	3.336	7.2	20.6	8 9	23 1.73	+ 1 14.5	1.672	2.593	11.7	20.7
8 19	22 51.48	-17 28.9	2.353	3.342	4.4	20.5	8 19	22 53.78	+ 0 52.2	1.634	2.607	7.7	20.5
8 29	22 44.04	-18 14.0	2.347	3.347	2.8	20.4	8 29	22 44.62	+ 0 15.6	1.621	2.621	3.9	20.3
9 8	22 36.43	-18 51.5	2.369	3.352	4.5	20.5	9 8	22 35.25	- 0 30.6	1.636	2.635	3.6	20.3
9 18	22 29.36	-19 17.8	2.420	3.357	7.3	20.7	9 18	22 26.70	- 1 20.2	1.678	2.649	7.1	20.6
9 28	22 23.50	-19 30.8	2.496	3.362	10.0	20.9	9 28	22 19.86	- 2 7.3	1.746	2.661	10.8	20.8
10 8	22 19.32	-19 30.0	2.594	3.367	12.3	21.0	10 8	22 15.33	- 2 46.7	1.836	2.674	14.1	21.1
<b>364477</b>	2007 <i>DB</i> <sub>35</sub>		9 1.1 87°07	0°4/31.6	18		<b>311984</b>	2007 <i>EL</i> <sub>211</sub>		9 1.1 115°60	2°3/29.4	18	
7 30	23 4.08	- 8 24.2	2.281	3.152	11.2	21.4	7 30	23 2.32	-13 28.6	2.443	3.325	10.1	20.9
8 9	22 58.71	- 8 43.5	2.221	3.164	8.1	21.2	8 9	22 57.41	-14 21.8	2.387	3.336	7.2	20.7
8 19	22 51.86	- 9 9.4	2.186	3.176	4.6	21.0	8 19	22 51.11	-15 18.5	2.356	3.346	4.2	20.6
8 29	22 44.13	- 9 38.2	2.178	3.187	1.1	20.8	8 29	22 43.97	-16 13.8	2.353	3.357	2.3	20.4
9 8	22 36.26	-10 6.0	2.199	3.198	2.7	20.9	9 8	22 36.69	-17 2.7	2.379	3.367	4.0	20.6
9 18	22 28.98	-10 29.0	2.248	3.210	6.2	21.2	9 18	22 29.95	-17 41.5	2.433	3.376	6.9	20.8
9 28	22 22.99	-10 44.5	2.323	3.221	9.3	21.4	9 28	22 24.38	-18 7.4	2.513	3.386	9.7	21.0
10 8	22 18.75	-10 50.5	2.422	3.232	12.0	21.6	10 8	22 20.45	-18 19.5	2.615	3.395	12.0	21.2
<b>173242</b>	1999 <i>JC</i> <sub>10</sub>		9 1.1 91°17	0°9/1.9	18		<b>424414</b>	2008 <i>AK</i> <sub>67</sub>		9 1.1 252°76	2°1/30.3	17	
7 30	23 5.52	- 1 47.5	1.387	2.262	16.7	19.9	7 30	23 5.06	- 9 22.2	1.538	2.428	14.5	21.7
8 9	23 0.49	- 2 43.4	1.336	2.277	12.4	19.7	8 9	23 0.31	-10 28.2	1.464	2.417	10.6	21.4
8 19	22 53.18	- 3 58.7	1.306	2.292	7.5	19.4	8 19	22 53.23	-11 46.8	1.413	2.406	6.1	21.1
8 29	22 44.47	- 5 26.7	1.300	2.308	2.3	19.1	8 29	22 44.55	-13 10.6	1.388	2.395	2.2	20.9
9 8	22 35.54	- 6 57.8	1.320	2.322	3.4	19.3	9 8	22 35.35	-14 30.3	1.388	2.384	4.9	21.0
9 18	22 27.60	- 8 22.7	1.366	2.337	8.4	19.6	9 18	22 26.83	-15 37.4	1.415	2.372	9.6	21.3
9 28	22 21.66	- 9 33.4	1.437	2.351	12.8	19.9	9 28	22 20.11	-16 25.8	1.465	2.360	13.9	21.5
10 8	22 18.33	-10 25.4	1.528	2.365	16.5	20.2	10 8	22 15.99	-16 52.9	1.536	2.348	17.6	21.7
<b>362982</b>	2013 <i>CT</i> <sub>58</sub>		9 1.1 301°81	0°4/31.3	17		<b>376432</b>	2012 <i>HB</i> <sub>14</sub>		9 1.1 60°27	2°0/30.7	17	
7 30	22 55.52	- 8 7.2	3.953	4.819	6.9	20.7	7 30	23 7.72	-10 20.1	1.279	2.177	16.4	20.6
8 9	22 52.15	- 8 43.8	3.863	4.804	5.0	20.6	8 9	23 2.16	-11 2.4	1.239	2.195	11.8	20.4
8 19	22 47.94	- 9 25.3	3.799	4.789	2.9	20.4	8 19	22 54.15	-11 53.8	1.220	2.214	6.7	20.2
8 29	22 43.20	-10 9.3	3.765	4.773	0.7	20.2	8 29	22 44.72	-12 46.5	1.225	2.233	2.2	19.9
9 8	22 38.30	-10 53.1	3.760	4.758	1.8	20.3	9 8	22 35.20	-13 32.1	1.255	2.252	4.9	20.2
9 18	22 33.62	-11 34.2	3.784	4.743	4.1	20.4	9 18	22 26.89	-14 4.4	1.309	2.271	9.7	20.5
9 28	22 29.53	-12 10.0	3.837	4.728	6.2	20.6	9 28	22 20.83	-14 19.7	1.387	2.290	13.9	20.8
10 8	22 26.37	-12 38.8	3.915	4.712	8.0	20.7	10 8	22 17.59	-14 17.2	1.483	2.310	17.5	21.1
<b>356252</b>	2009 <i>UT</i> <sub>53</sub>		9 1.1 270°32	1°2/29.9	15		<b>95612</b>	2002 <i>FA</i> <sub>35</sub>		9 1.1 83°17	0°7/1.8	18	
7 30	22 58.16	-14 11.9	4.405	5.278	6.2	21.1	7 30	23 1.72	- 3 50.6	2.213	3.076	11.8	19.9
8 9	22 53.93	-14 26.8	4.324	5.269	4.4	21.0	8 9	22 57.13	- 4 19.4	2.143	3.079	8.7	19.7
8 19	22 48.92	-14 42.8	4.271	5.260	2.6	20.8	8 19	22 51.03	- 4 59.1	2.098	3.083	5.2	19.5
8 29	22 43.43	-14 58.1	4.247	5.251	1.2	20.7	8 29	22 43.99	- 5 46.1	2.079	3.086	1.6	19.2
9 8	22 37.83	-15 10.7	4.252	5.242	2.3	20.8	9 8	22 36.71	- 6 35.9	2.088	3.089	2.4	19.3
9 18	22 32.46	-15 18.9	4.288	5.234	4.1	20.9	9 18	22 29.96	- 7 23.6	2.125	3.093	6.0	19.6
9 28	22 27.69	-15 21.4	4.351	5.225	5.9	21.0	9 28	22 24.44	- 8 4.8	2.189	3.096	9.4	19.8
10 8	22 23.82	-15 17.5	4.440	5.216	7.5	21.2	10 8	22 20.65	- 8 36.2	2.276	3.099	12.2	20.0
<b>48401</b>	1981 <i>EW</i> <sub>27</sub>		9 1.1 286°88	1°7/2.8	18		<b>221671</b>	2007 <i>CW</i> <sub>56</sub>		9 1.1 164°65	1°2/30.7	18	
7 30	23 1.60	- 0 24.2	1.925	2.783	13.5	18.8	7 30	23 4.47	-11 19.7	2.608	3.480	9.9	20.4
8 9	22 57.45	- 0 59.1	1.831	2.761	10.3	18.6	8 9	22 58.91	-11 43.1	2.540	3.484	7.1	20.3
8 19	22 51.43	- 1 51.1	1.759	2.739	6.6	18.3	8 19	22 51.97	-12 10.5	2.497	3.487	4.1	20.1
8 29	22 44.10	- 2 57.1	1.712	2.717	2.7	18.0	8 29	22 44.20	-12 38.6	2.482	3.490	1.4	19.9
9 8	22 36.26	- 4 11.6	1.693	2.695	2.9	18.0	9 8	22 36.25	-13 3.5	2.497	3.492	3.0	20.0
9 18	22 28.83	- 5 27.9	1.702	2.673	6.9	18.2	9 18	22 28.80	-13 22.2	2.540	3.494	6.1	20.2
9 28	22 22.71	- 6 38.8	1.736	2.650	11.0	18.4	9 28	22 22.48	-13 32.4	2.611	3.496	8.9	20.4
10 8	22 18.63	- 7 38.7	1.793	2.628	14.5	18.6	10 8	22 17.76	-13 32.8	2.705	3.498	11.3	20.6
<b>118239</b>	1997 <i>KX</i>		9 1.1 97°83	7°6/22.9	18 R		<b>111805</b>	2002 <i>CZ</i> <sub>256</sub>		9 1.1 279°96	1°3/29.7	18	
7 30	23 5.50	-31 31.1	2.313	3.193	10.7	19.2	7 30	22 55.76	-13 4.2	4.248	5.124	6.3	19.7
8 9	22 59.90	-32 54.1	2.282	3.207	8.8	19.1	8 9	22 52.26	-13 40.2	4.170	5.117	4.5	19.5
8 19	22 52.60	-34 7.1	2.276	3.220	7.7	19.1	8 19	22 48.00	-14 18.6	4.119	5.110	2.6	19.4
8 29	22 44.32	-35 3.4	2.295	3.234	7.8	19.1	8 29	22 43.25	-14 56.8	4.098	5.103	1.3	19.3
9 8	22 35.92	-35 38.1	2.340	3.247	9.1	19.2	9 8	22 38.37	-15 32.4	4.106	5.095	2.4	19.4
9 18	22 28.28	-35 49.5	2.410	3.260	11.0	19.4	9 18	22 33.72	-16 3.2	4.143	5.088	4.3	19.5
9 28	22 22.16	-35 38.0	2.501	3.273	12.8	19.5	9 28	22 29.65	-16 27.4	4.208	5.081	6.1	19.6
10 8	22 18.05	-35 6.4	2.611	3.286	14.4	19.7	10 8	22 26.45	-16 43.9	4.297	5.073	7.7	19.7
<b>284739</b>	2008 <i>UA</i> <sub>197</sub>		9 1.1 167°20	4°2/5.3	18		<b>365308</b>	2009 <i>SR</i> <sub>12</sub>		9 1.1 18°92	2°7/4.4	18	
7 30	23 3.99	+ 6 7.8	2.028	2.850	14.2	21.1	7 30	22 59.15	+ 4 2.9	2.156	2.993	13.0	20.6
8 9	22 58.94	+ 6 2.9	1.952	2.852	11.3	20.9	8 9	22 55.34	+ 3 19.4	2.081	2.995	10.1	20.4
8 19	22 52.16	+ 5 39.4	1.898	2.855	8.1	20.7	8 19	22 50.03	+ 2 17.9	2.027	2.996	6.8	20.2
8 29	22 44.24	+ 4 58.5	1.868	2.856	5.2	20.6	8 29	22 43.76	+ 1 1.5	2.000	2.998	3.7	20.0
9 8	22 36.03	+ 4 4.0	1.866	2.858	4.3	20.5	9 8	22 37.24	- 0 24.6	2.001	3.000	3.0	20.0
9 18	22 28.36	+ 3 1.4	1.891	2.859	6.6	20.7	9 18	22 31.20	- 1 53.8	2.030	3.002	5.9	20.2
9 28	22 22.08	+ 1 56.9	1.943	2.860	9.8	20.9	9 28	22 26.35	- 3 19.4	2.086	3.004	9.2	20.4
10 8	22 17.75	+ 0 56.7	2.018	2.861	12.8	21.1	10 8	22 23.22	- 4 35.6	2.166	3.007	12.1	20.6
<b>358489</b>	2007 <i>RP</i> <sub>60</sub>		9 1.1 321°06	1°8/2.1	17		<b>236421</b>	2006 <i>DU</i> <sub>96</sub>		9 1.1 99°87	0°7/31.5	16	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>402444</b>	2006 <i>BS</i> <sub>44</sub>	9 1.1 205°36	0°3/31.8	18			<b>316296</b>	2010 <i>RH</i> <sub>40</sub>	9 1.1 5°98	1°7/1.9	18		
7 30	23 3.25	- 8 2.7	2.854	3.717	9.4	21.7	7 30	23 10.45	- 5 27.3	1.191	2.077	18.1	19.9
8 9	22 57.98	- 8 21.0	2.774	3.713	6.9	21.5	8 9	23 4.62	- 4 58.4	1.130	2.077	13.6	19.6
8 19	22 51.44	- 8 45.0	2.720	3.708	4.0	21.3	8 19	22 55.88	- 4 42.3	1.089	2.077	8.3	19.4
8 29	22 44.10	- 9 11.9	2.694	3.703	0.9	21.0	8 29	22 45.24	- 4 36.7	1.071	2.078	2.9	19.0
9 8	22 36.54	- 9 38.6	2.698	3.697	2.3	21.2	9 8	22 34.15	- 4 37.1	1.077	2.079	3.9	19.1
9 18	22 29.38	-10 2.0	2.731	3.692	5.3	21.4	9 18	22 24.16	- 4 38.5	1.108	2.081	9.4	19.4
9 28	22 23.20	-10 19.3	2.792	3.686	8.1	21.5	9 28	22 16.63	- 4 36.1	1.161	2.084	14.4	19.7
10 8	22 18.45	-10 28.9	2.878	3.679	10.5	21.7	10 8	22 12.34	- 4 26.1	1.233	2.086	18.6	20.0
<b>378263</b>	2007 <i>DC</i> <sub>103</sub>	9 1.1 297°90	1°2/31.1	16			<b>180789</b>	2004 <i>RU</i> <sub>216</sub>	9 1.1 34°89	6°0/5.9	18		
7 30	23 3.43	- 7 37.1	1.486	2.376	14.9	21.5	7 30	23 5.94	+ 6 37.4	1.570	2.403	17.2	18.1
8 9	22 59.13	- 8 31.9	1.416	2.369	10.9	21.2	8 9	23 0.54	+ 7 20.1	1.524	2.427	13.8	17.9
8 19	22 52.54	- 9 40.5	1.368	2.361	6.3	20.9	8 19	22 53.12	+ 7 41.1	1.498	2.452	10.1	17.8
8 29	22 44.41	-10 56.3	1.345	2.354	1.6	20.6	8 29	22 44.52	+ 7 40.6	1.495	2.477	7.0	17.7
9 8	22 35.82	-12 10.4	1.348	2.346	4.3	20.8	9 8	22 35.80	+ 7 21.7	1.517	2.504	6.0	17.7
9 18	22 27.95	-13 14.6	1.376	2.339	9.1	21.0	9 18	22 28.00	+ 6 49.6	1.565	2.530	8.0	17.9
9 28	22 21.90	-14 2.6	1.427	2.332	13.6	21.3	9 28	22 22.03	+ 6 11.1	1.637	2.558	11.1	18.1
10 8	22 18.40	-14 30.9	1.499	2.325	17.3	21.5	10 8	22 18.44	+ 5 33.0	1.731	2.585	14.0	18.4
<b>355108</b>	2006 <i>US</i> <sub>30</sub>	9 1.1 23°05	0°3/1.4	18			<b>518488</b>	2005 <i>UX</i> <sub>532</sub>	9 1.1 353°40	4°3/5.5	18		
7 30	23 2.62	- 5 11.4	1.689	2.567	14.0	20.9	7 30	23 2.48	+ 6 6.1	2.164	2.984	13.5	20.9
8 9	22 58.16	- 5 38.0	1.627	2.572	10.3	20.7	8 9	22 57.79	+ 6 14.1	2.085	2.984	10.8	20.7
8 19	22 51.78	- 6 17.0	1.587	2.576	6.1	20.4	8 19	22 51.50	+ 6 5.2	2.029	2.984	7.8	20.6
8 29	22 44.20	- 7 3.9	1.573	2.581	1.6	20.1	8 29	22 44.15	+ 5 40.3	1.998	2.983	5.2	20.4
9 8	22 36.35	- 7 52.7	1.585	2.587	3.0	20.3	9 8	22 36.51	+ 5 2.2	1.993	2.983	4.4	20.4
9 18	22 29.22	- 8 37.5	1.624	2.593	7.4	20.6	9 18	22 29.36	+ 4 15.2	2.016	2.983	6.4	20.5
9 28	22 23.69	- 9 13.0	1.687	2.599	11.4	20.8	9 28	22 23.46	+ 3 24.9	2.065	2.983	9.3	20.7
10 8	22 20.37	- 9 35.9	1.772	2.606	14.7	21.0	10 8	22 19.38	+ 2 36.6	2.138	2.983	12.1	20.9
<b>232290</b>	2002 <i>RE</i> <sub>180</sub>	9 1.1 80°86	1°6/2.7	18			<b>372344</b>	2009 <i>EG</i> <sub>28</sub>	9 1.1 36°02	4°2/29.3	17		
7 30	23 2.40	- 0 14.1	1.848	2.706	13.9	20.2	7 30	23 4.54	-13 9.1	0.975	1.895	18.2	20.0
8 9	22 57.83	- 0 56.7	1.788	2.719	10.5	20.0	8 9	23 0.34	-14 18.3	0.946	1.913	13.0	19.8
8 19	22 51.51	- 1 55.6	1.751	2.731	6.6	19.8	8 19	22 53.27	-15 34.5	0.936	1.932	7.6	19.5
8 29	22 44.12	- 3 6.3	1.739	2.744	2.6	19.6	8 29	22 44.56	-16 46.0	0.947	1.952	4.2	19.4
9 8	22 36.54	- 4 22.4	1.755	2.756	2.8	19.6	9 8	22 35.81	-17 41.6	0.981	1.973	7.2	19.7
9 18	22 29.63	- 5 37.1	1.798	2.769	6.6	19.9	9 18	22 28.51	-18 14.2	1.036	1.995	12.0	20.0
9 28	22 24.19	- 6 44.0	1.867	2.781	10.3	20.1	9 28	22 23.82	-18 21.3	1.112	2.018	16.5	20.3
10 8	22 20.76	- 7 38.4	1.959	2.793	13.5	20.4	10 8	22 22.28	-18 4.4	1.205	2.041	20.1	20.7
<b>389100</b>	2008 <i>YQ</i> <sub>8</sub>	9 1.1 292°02	4°6/27.9	18			<b>184285</b>	2005 <i>CO</i> <sub>7</sub>	9 1.1 99°47	15°4/16.6	17		
7 30	23 4.26	-17 14.2	1.700	2.598	12.9	20.7	7 30	23 4.41	+27 50.2	1.262	1.992	25.7	19.7
8 9	22 59.57	-18 22.0	1.631	2.586	9.5	20.5	8 9	23 0.44	+28 46.2	1.198	1.996	23.3	19.5
8 19	22 52.74	-19 33.3	1.585	2.574	6.1	20.2	8 19	22 53.58	+28 58.0	1.146	2.000	20.6	19.3
8 29	22 44.46	-20 40.0	1.565	2.562	4.6	20.1	8 29	22 44.72	+28 18.2	1.109	2.004	18.0	19.2
9 8	22 35.76	-21 34.1	1.572	2.550	6.8	20.2	9 8	22 35.24	+26 45.5	1.089	2.008	16.0	19.1
9 18	22 27.72	-22 9.6	1.603	2.539	10.4	20.4	9 18	22 26.69	+24 26.3	1.089	2.012	15.4	19.1
9 28	22 21.38	-22 23.5	1.658	2.527	14.0	20.6	9 28	22 20.50	+21 34.9	1.110	2.016	16.5	19.1
10 8	22 17.45	-22 15.8	1.732	2.515	17.1	20.8	10 8	22 17.55	+18 30.4	1.152	2.020	18.7	19.3
<b>404441</b>	2013 <i>GF</i> <sub>101</sub>	9 1.1 167°02	0°5/31.5	18			<b>459489</b>	2013 <i>CH</i> <sub>119</sub>	9 1.1 58°27	3°5/30.3	17		
7 30	23 2.43	- 7 54.2	2.865	3.728	9.4	22.5	7 30	23 13.60	-14 5.8	1.030	1.936	18.7	20.7
8 9	22 57.35	- 8 28.9	2.794	3.733	6.8	22.3	8 9	23 6.69	-14 33.2	1.001	1.961	13.4	20.4
8 19	22 51.06	- 9 9.7	2.749	3.737	3.9	22.1	8 19	22 56.83	-15 4.8	0.992	1.986	7.8	20.2
8 29	22 44.01	- 9 53.5	2.732	3.741	0.9	21.9	8 29	22 45.38	-15 31.9	1.005	2.011	3.6	20.1
9 8	22 36.80	-10 36.4	2.745	3.744	2.4	22.0	9 8	22 34.11	-15 46.4	1.042	2.037	6.3	20.3
9 18	22 29.99	-11 14.9	2.788	3.746	5.3	22.2	9 18	22 24.58	-15 44.4	1.103	2.063	11.3	20.7
9 28	22 24.17	-11 46.2	2.858	3.748	8.0	22.4	9 28	22 17.96	-15 24.6	1.184	2.089	15.8	21.0
10 8	22 19.75	-12 8.1	2.953	3.750	10.4	22.6	10 8	22 14.72	-14 48.8	1.284	2.114	19.4	21.4
<b>515989</b>	2015 <i>RW</i> <sub>207</sub>	9 1.1 254°50	5°4/26.5	18			<b>124013</b>	2001 <i>FK</i> <sub>101</sub>	9 1.1 275°04	2°8/3.4	17		
7 30	23 6.62	-24 55.3	2.373	3.257	10.3	21.0	7 30	23 8.17	- 0 23.4	2.309	3.145	12.3	19.4
8 9	23 0.70	-25 36.9	2.311	3.251	7.9	20.8	8 9	23 1.90	+ 0 9.1	2.220	3.136	9.5	19.2
8 19	22 53.12	-26 14.0	2.273	3.245	5.9	20.7	8 19	22 53.90	+ 0 31.8	2.155	3.126	6.4	19.0
8 29	22 44.52	-26 40.8	2.262	3.239	5.4	20.7	8 29	22 44.75	+ 0 45.1	2.118	3.116	3.5	18.8
9 8	22 35.70	-26 53.0	2.278	3.233	6.8	20.7	9 8	22 35.23	+ 0 50.6	2.109	3.106	3.3	18.8
9 18	22 27.51	-26 48.1	2.321	3.226	9.2	20.9	9 18	22 26.15	+ 0 50.9	2.129	3.096	6.2	19.0
9 28	22 20.71	-26 25.7	2.389	3.220	11.6	21.0	9 28	22 18.34	+ 0 48.9	2.177	3.085	9.4	19.2
10 8	22 15.84	-25 47.4	2.478	3.213	13.8	21.2	10 8	22 12.40	+ 0 48.1	2.249	3.075	12.3	19.3
<b>401521</b>	2013 <i>EW</i> <sub>74</sub>	9 1.1 244°86	0°8/31.2	18			<b>346715</b>	2008 <i>YN</i> <sub>172</sub>	9 1.1 275°34	0°0/31.9	18		
7 30	23 2.06	- 7 48.7	2.149	3.025	11.6	21.5	7 30	23 2.61	- 3 59.2	1.915	2.784	13.1	21.2
8 9	22 57.52	- 8 37.5	2.073	3.019	8.4	21.3	8 9	22 58.28	- 5 2.5	1.818	2.759	9.7	20.9
8 19	22 51.35	- 9 35.7	2.022	3.012	4.8	21.0	8 19	22 52.00	- 6 22.4	1.745	2.733	5.8	20.7
8 29	22 44.12	-10 38.6	1.997	3.006	1.2	20.8	8 29	22 44.33	- 7 53.9	1.699	2.707	1.4	20.3
9 8	22 36.58	-11 40.4	2.001	2.999	3.2	20.9	9 8	22 36.09	- 9 29.7	1.680	2.681	3.2	20.4
9 18	22 29.53	-12 35.6	2.032	2.992	6.9	21.1	9 18	22 28.22	-11 1.8	1.690	2.654	7.7	20.6
9 28	22 23.74	-13 19.8	2.090	2.985	10.3	21.3	9 28	22 21.69	-12 22.7	1.725	2.627	11.8	20.8
10 8	22 19.77	-13 50.2	2.170	2.978	13.3	21.5	10 8	22 17.23	-13 27.0	1.783	2.600	15.4	21.0
<b>193278</b>	2000 <i>SL</i> <sub>212</sub>	9 1.1 310°73	10°0/23.9	18			<b>286571</b>	2002 <i>CR</i> <sub>207</sub>	9 1.1 223°				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>134288</b>	2006 <i>CL</i> <sub>62</sub>		9 1.1 173°99	5°2/ 6.2 18			<b>494961</b>	2009 <i>SV</i> <sub>235</sub>		9 1.1 298°75	0°7/ 2.5 17		
7 30	23 6.15	+ 8 38.2	2.163	2.964	14.2	20.2	7 30	22 55.11	- 2 39.9	4.351	5.197	6.8	21.8
8 9	23 0.48	+ 8 54.3	2.084	2.966	11.5	20.1	8 9	22 51.80	- 3 4.3	4.267	5.193	5.0	21.7
8 19	22 53.09	+ 8 52.3	2.026	2.968	8.7	19.9	8 19	22 47.77	- 3 34.8	4.209	5.189	3.1	21.5
8 29	22 44.56	+ 8 32.0	1.994	2.970	6.1	19.7	8 29	22 43.29	- 4 9.7	4.180	5.185	1.2	21.4
9 8	22 35.71	+ 7 56.0	1.988	2.971	5.3	19.7	9 8	22 38.69	- 4 46.8	4.180	5.181	1.4	21.4
9 18	22 27.37	+ 7 8.4	2.011	2.971	6.9	19.8	9 18	22 34.29	- 5 24.0	4.210	5.177	3.3	21.5
9 28	22 20.38	+ 6 14.8	2.060	2.971	9.6	20.0	9 28	22 30.45	- 5 59.0	4.268	5.173	5.2	21.7
10 8	22 15.32	+ 5 21.5	2.133	2.971	12.4	20.1	10 8	22 27.42	- 6 29.8	4.353	5.170	7.0	21.8
<b>152824</b>	1999 <i>UU</i> <sub>43</sub>		9 1.1 238°92	4°8/26.9 18			<b>395730</b>	2012 <i>UY</i> <sub>44</sub>		9 1.1 260°36	5°1/ 6.5 18		
7 30	23 4.96	-22 24.9	2.343	3.230	10.3	19.9	7 30	23 2.35	+ 9 24.0	1.980	2.789	15.0	21.5
8 9	22 59.54	-23 15.6	2.280	3.225	7.7	19.7	8 9	22 58.01	+ 9 10.2	1.886	2.775	12.3	21.3
8 19	22 52.49	-24 3.9	2.242	3.220	5.5	19.5	8 19	22 51.82	+ 8 33.8	1.813	2.759	9.2	21.1
8 29	22 44.42	-24 43.9	2.231	3.214	4.9	19.5	8 29	22 44.34	+ 7 35.0	1.763	2.744	6.3	20.9
9 8	22 36.11	-25 10.7	2.247	3.209	6.4	19.6	9 8	22 36.39	+ 6 17.5	1.740	2.728	5.2	20.8
9 18	22 28.38	-25 21.4	2.290	3.203	8.9	19.7	9 18	22 28.86	+ 4 47.5	1.744	2.712	7.1	20.9
9 28	22 21.99	-25 14.8	2.358	3.198	11.4	19.9	9 28	22 22.65	+ 3 12.9	1.775	2.696	10.4	21.1
10 8	22 17.47	-24 51.6	2.447	3.192	13.7	20.0	10 8	22 18.45	+ 1 42.0	1.830	2.679	13.6	21.2
<b>80848</b>	2000 <i>DY</i> <sub>19</sub>		9 1.1 79°53	0°3/31.9 17			<b>297375</b>	2000 <i>JE</i> <sub>8</sub>		9 1.1 107°37	0°5/ 1.6 18		
7 30	23 7.86	- 6 50.2	1.480	2.362	15.5	19.4	7 30	23 2.52	- 3 56.6	1.934	2.803	13.0	21.0
8 9	23 2.07	- 7 20.3	1.432	2.379	11.3	19.2	8 9	22 57.97	- 4 35.3	1.865	2.804	9.6	20.8
8 19	22 54.08	- 8 2.1	1.406	2.396	6.5	18.9	8 19	22 51.69	- 5 26.9	1.818	2.805	5.7	20.6
8 29	22 44.79	- 8 49.7	1.405	2.414	1.5	18.6	8 29	22 44.28	- 6 27.0	1.798	2.806	1.6	20.3
9 8	22 35.37	- 9 36.2	1.430	2.431	3.6	18.8	9 8	22 36.60	- 7 29.7	1.805	2.807	2.7	20.4
9 18	22 26.96	-10 15.3	1.482	2.448	8.3	19.2	9 18	22 29.50	- 8 29.0	1.840	2.808	6.8	20.7
9 28	22 20.53	-10 42.5	1.558	2.465	12.4	19.5	9 28	22 23.80	- 9 19.5	1.901	2.809	10.5	20.9
10 8	22 16.68	-10 55.3	1.654	2.482	15.9	19.7	10 8	22 20.07	- 9 57.5	1.984	2.810	13.7	21.1
<b>358313</b>	2006 <i>UG</i> <sub>268</sub>		9 1.1 320°40	0°6/ 1.7 18			<b>21307</b>	1996 <i>XG</i> <sub>3</sub>		9 1.1 300°60	3°9/29.3 18		
7 30	23 2.24	- 4 21.9	1.803	2.677	13.5	21.4	7 30	23 6.17	-14 15.4	1.317	2.222	15.5	18.1
8 9	22 57.93	- 4 47.0	1.727	2.669	10.0	21.2	8 9	23 1.60	-15 6.9	1.244	2.203	11.4	17.8
8 19	22 51.73	- 5 25.2	1.673	2.660	6.1	20.9	8 19	22 54.26	-16 6.1	1.192	2.185	6.9	17.5
8 29	22 44.27	- 6 12.4	1.645	2.652	1.8	20.6	8 29	22 44.98	-17 4.4	1.163	2.167	3.9	17.3
9 8	22 36.43	- 7 3.2	1.643	2.645	2.9	20.7	9 8	22 35.02	-17 52.3	1.159	2.150	6.7	17.4
9 18	22 29.16	- 7 51.6	1.668	2.637	7.2	20.9	9 18	22 25.83	-18 22.1	1.179	2.132	11.5	17.6
9 28	22 23.37	- 8 32.1	1.718	2.630	11.2	21.2	9 28	22 18.79	-18 29.4	1.220	2.115	16.1	17.8
10 8	22 19.69	- 9 9.9	1.790	2.624	14.6	21.4	10 8	22 14.78	-18 13.8	1.279	2.098	20.1	18.0
<b>114808</b>	2003 <i>OP</i> <sub>3</sub>		9 1.1 327°47	4°7/ 6.1 18			<b>339192</b>	2004 <i>TD</i> <sub>185</sub>		9 1.1 59°77	15°2/27.6 16		
7 30	23 1.48	+ 7 45.0	2.225	3.038	13.5	19.2	7 30	23 31.80	-38 23.5	0.984	1.862	21.7	19.9
8 9	22 57.07	+ 7 51.9	2.144	3.035	10.9	19.0	8 9	23 20.83	-39 0.3	0.950	1.869	18.5	19.7
8 19	22 51.10	+ 7 41.4	2.084	3.032	8.1	18.9	8 19	23 5.35	-39 6.3	0.934	1.877	16.0	19.6
8 29	22 44.11	+ 7 13.8	2.049	3.029	5.6	18.7	8 29	22 47.49	-38 26.3	0.937	1.884	15.2	19.6
9 8	22 36.81	+ 6 31.8	2.040	3.026	4.7	18.7	9 8	22 30.16	-36 55.3	0.962	1.892	16.5	19.7
9 18	22 29.96	+ 5 39.8	2.059	3.024	6.4	18.8	9 18	22 15.86	-34 40.1	1.007	1.900	19.2	19.9
9 28	22 24.30	+ 4 43.3	2.104	3.022	9.1	18.9	9 28	22 6.10	-31 54.2	1.072	1.908	22.3	20.1
10 8	22 20.39	+ 3 48.0	2.173	3.019	11.9	19.1	10 8	22 1.22	-28 52.4	1.152	1.916	25.1	20.4
<b>439992</b>	2001 <i>YT</i> <sub>36</sub>		9 1.1 295°74	5°6/26.4 18			<b>296004</b>	2008 <i>YA</i> <sub>103</sub>		9 1.1 219°23	1°6/ 2.7 18		
7 30	23 4.10	-21 45.7	1.940	2.836	11.7	20.9	7 30	23 4.54	- 1 22.7	2.141	2.992	12.6	21.2
8 9	22 59.28	-22 53.8	1.873	2.823	8.8	20.7	8 9	22 59.36	- 1 39.4	2.059	2.986	9.5	21.0
8 19	22 52.51	-24 0.8	1.831	2.811	6.3	20.5	8 19	22 52.49	- 2 9.1	2.000	2.979	6.0	20.7
8 29	22 44.46	-24 59.1	1.815	2.799	5.7	20.5	8 29	22 44.50	- 2 49.0	1.968	2.972	2.5	20.5
9 8	22 36.05	-25 41.9	1.825	2.787	7.5	20.6	9 8	22 36.16	- 3 35.0	1.964	2.965	2.7	20.5
9 18	22 28.26	-26 4.8	1.860	2.776	10.5	20.7	9 18	22 28.31	- 4 22.0	1.988	2.958	6.3	20.7
9 28	22 22.02	-26 5.9	1.918	2.764	13.4	20.9	9 28	22 21.76	- 5 5.2	2.039	2.950	9.8	20.9
10 8	22 17.96	-25 46.3	1.996	2.752	16.0	21.1	10 8	22 17.08	- 5 40.5	2.114	2.942	12.9	21.1
<b>365603</b>	2010 <i>TL</i> <sub>174</sub>		9 1.1 297°34	2°6/29.8 18			<b>507366</b>	2011 <i>XO</i> <sub>3</sub>		9 1.1 154°88	2°1/ 5.0 18 CR		
7 30	23 5.62	-14 50.8	2.052	2.938	11.6	20.8	7 30	23 2.13	+ 4 44.4	4.475	5.268	7.5	24.2
8 9	23 0.21	-15 15.4	1.978	2.928	8.4	20.6	8 9	22 56.77	+ 4 38.4	4.395	5.280	5.9	24.1
8 19	22 52.98	-15 42.7	1.927	2.918	5.0	20.4	8 19	22 50.63	+ 4 24.3	4.340	5.291	4.2	24.0
8 29	22 44.57	-16 7.8	1.904	2.908	2.6	20.2	8 29	22 44.01	+ 4 3.0	4.315	5.301	2.6	23.9
9 8	22 35.84	-16 26.1	1.908	2.898	4.5	20.3	9 8	22 37.29	+ 3 36.2	4.321	5.311	2.2	23.9
9 18	22 27.70	-16 33.7	1.939	2.888	8.0	20.5	9 18	22 30.83	+ 3 5.7	4.358	5.320	3.5	24.0
9 28	22 21.00	-16 28.5	1.996	2.879	11.3	20.7	9 28	22 24.99	+ 2 33.9	4.426	5.329	5.1	24.1
10 8	22 16.35	-16 10.0	2.074	2.869	14.2	20.9	10 8	22 20.07	+ 2 3.1	4.521	5.336	6.7	24.2
<b>325877</b>	2010 <i>TJ</i> <sub>168</sub>		9 1.1 255°98	3°1/26.2 17			<b>244229</b>	2002 <i>CZ</i> <sub>15</sub>		9 1.1 192°56	0°5/ 1.7 18		
7 30	22 58.51	-24 41.1	4.448	5.327	6.0	20.5	7 30	23 3.52	- 4 59.6	2.520	3.378	10.7	21.0
8 9	22 54.25	-25 10.7	4.383	5.320	4.6	20.4	8 9	22 58.36	- 5 18.4	2.443	3.377	7.9	20.8
8 19	22 49.18	-25 37.7	4.344	5.314	3.4	20.3	8 19	22 51.78	- 5 45.8	2.390	3.375	4.7	20.6
8 29	22 43.62	-25 59.6	4.333	5.308	3.2	20.3	8 29	22 44.31	- 6 18.9	2.365	3.373	1.4	20.4
9 8	22 37.95	-26 14.0	4.352	5.301	4.0	20.4	9 8	22 36.60	- 6 54.0	2.370	3.371	2.3	20.5
9 18	22 32.55	-26 19.7	4.398	5.295	5.4	20.5	9 18	22 29.35	- 7 27.3	2.403	3.368	5.6	20.7
9 28	22 27.80	-26 15.7	4.471	5.288	6.8	20.6	9 28	22 23.19	- 7 55.4	2.463	3.366	8.7	20.9
10 8	22 24.00	-26 2.1	4.567	5.282	8.1	20.7	10 8	22 18.63	- 8 15.6	2.548	3.363	11.3	21.1
<b>476734</b>	2008 <i>UH</i> <sub>35</sub>		9 1.1 337°66	2°1/30.6 16			<b>329968</b>	2005 <i>SG</i> <sub>29</sub>		9 1.1 48°43			



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>13323</b>	1998 SQ	9	1.1 272 <sup>o</sup> 01	0 <sup>o</sup> 1/ 1.3 17	R		<b>126538</b>	2002 CJ <sub>90</sub>	9	1.1 24 <sup>o</sup> .73	1 <sup>o</sup> 1/31.1 18		
7 30	22 56.09	- 6 16.6	4.279	5.136	6.6	18.3	7 30	23 3.81	- 9 47.6	1.965	2.846	12.2	19.4
8 9	22 52.54	- 6 38.9	4.195	5.129	4.9	18.2	8 9	22 58.87	-10 13.7	1.901	2.849	8.8	19.2
8 19	22 48.22	- 7 5.8	4.137	5.123	2.8	18.0	8 19	22 52.20	-10 46.7	1.861	2.852	5.1	18.9
8 29	22 43.44	- 7 35.6	4.107	5.116	0.7	17.8	8 29	22 44.45	-11 22.1	1.846	2.855	1.4	18.7
9 8	22 38.53	- 8 6.1	4.108	5.109	1.5	17.9	9 8	22 36.46	-11 54.9	1.860	2.858	3.4	18.9
9 18	22 33.83	- 8 35.2	4.138	5.102	3.6	18.1	9 18	22 29.11	-12 20.8	1.901	2.861	7.2	19.1
9 28	22 29.70	- 9 0.9	4.197	5.095	5.5	18.2	9 28	22 23.20	-12 36.2	1.967	2.865	10.7	19.3
10 8	22 26.43	- 9 21.5	4.282	5.088	7.2	18.3	10 8	22 19.28	-12 39.6	2.055	2.869	13.7	19.5
<b>511138</b>	2013 XN <sub>26</sub>	9	1.1 214 <sup>o</sup> 06	1 <sup>o</sup> 1/30.9 18			<b>322179</b>	2010 XK <sub>32</sub>	9	1.1 85 <sup>o</sup> 17	6 <sup>o</sup> 1/ 7.9 18		
7 30	23 4.71	- 8 43.3	2.073	2.948	11.9	22.7	7 30	23 3.39	+12 12.1	2.334	3.113	13.9	20.9
8 9	22 59.55	- 9 31.9	1.997	2.943	8.7	22.4	8 9	22 58.41	+12 39.0	2.258	3.119	11.6	20.7
8 19	22 52.62	-10 29.4	1.946	2.936	5.0	22.2	8 19	22 51.89	+12 47.3	2.204	3.125	9.1	20.6
8 29	22 44.54	-11 30.9	1.921	2.929	1.4	21.9	8 29	22 44.38	+12 36.4	2.173	3.132	7.0	20.5
9 8	22 36.12	-12 30.2	1.925	2.922	3.5	22.1	9 8	22 36.60	+12 8.1	2.169	3.138	6.1	20.4
9 18	22 28.23	-13 21.8	1.957	2.914	7.3	22.3	9 18	22 29.30	+11 25.7	2.192	3.144	7.0	20.5
9 28	22 21.69	-14 1.4	2.015	2.906	10.8	22.5	9 28	22 23.20	+10 34.6	2.241	3.150	9.1	20.7
10 8	22 17.12	-14 26.6	2.095	2.898	13.9	22.7	10 8	22 18.84	+ 9 40.5	2.315	3.156	11.4	20.8
<b>18642</b>	1998 EF <sub>12</sub>	9	1.1 175 <sup>o</sup> 43	2 <sup>o</sup> 6/29.9 18			<b>201821</b>	2003 YR <sub>25</sub>	9	1.1 166 <sup>o</sup> 09	1 <sup>o</sup> 8/ 3.1 18		
7 30	23 9.32	-12 49.4	1.759	2.643	13.3	18.8	7 30	23 4.85	- 0 27.6	2.499	3.338	11.4	20.6
8 9	23 3.09	-13 37.3	1.696	2.645	9.6	18.6	8 9	22 59.32	- 0 40.5	2.424	3.343	8.6	20.4
8 19	22 54.75	-14 30.9	1.656	2.647	5.6	18.4	8 19	22 52.35	- 1 4.6	2.372	3.347	5.5	20.2
8 29	22 45.05	-15 23.7	1.643	2.649	2.7	18.2	8 29	22 44.48	- 1 37.8	2.349	3.351	2.5	20.1
9 8	22 35.06	-16 8.8	1.658	2.649	4.9	18.3	9 8	22 36.39	- 2 16.6	2.354	3.354	2.5	20.1
9 18	22 25.85	-16 41.0	1.700	2.649	8.9	18.6	9 18	22 28.78	- 2 57.1	2.389	3.357	5.4	20.3
9 28	22 18.40	-16 57.1	1.766	2.649	12.6	18.8	9 28	22 22.30	- 3 35.1	2.451	3.359	8.5	20.5
10 8	22 13.37	-16 56.4	1.854	2.648	15.7	19.0	10 8	22 17.46	- 4 7.3	2.538	3.361	11.1	20.6
<b>35987</b>	1999 NV <sub>8</sub>	9	1.1 43 <sup>o</sup> 37	0 <sup>o</sup> 9/ 1.8 18			<b>392379</b>	2010 HY <sub>105</sub>	9	1.1 280 <sup>o</sup> 05	2 <sup>o</sup> 3/ 3.3 18		
7 30	23 4.94	- 4 3.3	1.392	2.274	16.2	18.5	7 30	23 2.96	+ 0 24.9	1.822	2.677	14.2	21.3
8 9	23 0.11	- 4 22.9	1.343	2.288	12.0	18.3	8 9	22 58.46	+ 0 3.4	1.745	2.673	10.9	21.1
8 19	22 53.05	- 4 57.6	1.315	2.303	7.2	18.0	8 19	22 52.08	- 0 34.8	1.690	2.668	7.1	20.9
8 29	22 44.63	- 5 42.6	1.310	2.318	2.2	17.8	8 29	22 44.45	- 1 27.0	1.661	2.664	3.3	20.7
9 8	22 36.03	- 6 30.8	1.331	2.334	3.3	17.9	9 8	22 36.45	- 2 27.8	1.658	2.659	3.1	20.6
9 18	22 28.41	- 7 15.4	1.378	2.350	8.1	18.2	9 18	22 29.01	- 3 30.9	1.683	2.655	6.9	20.9
9 28	22 22.75	- 7 50.4	1.448	2.366	12.4	18.5	9 28	22 23.05	- 4 29.8	1.732	2.651	10.8	21.1
10 8	22 19.66	- 8 12.3	1.538	2.383	16.0	18.8	10 8	22 19.19	- 5 18.9	1.805	2.646	14.2	21.3
<b>430413</b>	1996 EM <sub>5</sub>	9	1.1 203 <sup>o</sup> 88	0 <sup>o</sup> 5/31.7 17			<b>59500</b>	1999 JT <sub>8</sub>	9	1.1 40 <sup>o</sup> 01	11 <sup>o</sup> 4/12.4 18		
7 30	23 6.86	- 7 12.2	1.897	2.768	13.0	22.6	7 30	23 3.26	+20 6.7	1.404	2.176	21.8	19.0
8 9	23 1.24	- 7 47.6	1.822	2.765	9.6	22.3	8 9	22 59.09	+20 56.7	1.352	2.192	19.0	18.8
8 19	22 53.66	- 8 33.3	1.771	2.760	5.6	22.1	8 19	22 52.58	+21 11.2	1.315	2.209	16.0	18.7
8 29	22 44.80	- 9 24.6	1.747	2.756	1.3	21.8	8 29	22 44.57	+20 47.2	1.296	2.227	13.2	18.6
9 8	22 35.58	-10 15.6	1.750	2.750	3.3	21.9	9 8	22 36.25	+19 46.7	1.299	2.246	11.6	18.5
9 18	22 26.97	-11 0.6	1.782	2.744	7.5	22.2	9 18	22 28.85	+18 16.8	1.323	2.265	11.7	18.6
9 28	22 19.89	-11 34.9	1.839	2.738	11.3	22.4	9 28	22 23.45	+16 28.8	1.371	2.284	13.4	18.8
10 8	22 14.98	-11 55.8	1.918	2.731	14.6	22.6	10 8	22 20.71	+14 35.4	1.439	2.304	15.8	19.0
<b>312326</b>	2008 CJ <sub>155</sub>	9	1.1 14 <sup>o</sup> 16	3 <sup>o</sup> 7/28.3 18			<b>511510</b>	2014 OC <sub>344</sub>	9	1.1 55 <sup>o</sup> 73	5 <sup>o</sup> 7/ 5.6 18		
7 30	23 1.58	-14 49.9	1.799	2.697	12.3	20.4	7 30	23 11.70	+ 6 51.6	2.033	2.837	14.8	20.1
8 9	22 57.43	-16 6.0	1.742	2.698	8.9	20.2	8 9	23 4.46	+ 7 56.0	1.975	2.859	12.0	20.0
8 19	22 51.43	-17 26.9	1.709	2.700	5.4	20.0	8 19	22 55.39	+ 8 43.9	1.940	2.882	9.0	19.8
8 29	22 44.25	-18 44.9	1.702	2.703	3.7	19.9	8 29	22 45.23	+ 9 14.1	1.931	2.905	6.5	19.7
9 8	22 36.81	-19 52.2	1.722	2.705	5.9	20.0	9 8	22 34.89	+ 9 27.6	1.950	2.928	5.8	19.7
9 18	22 30.04	-20 43.2	1.768	2.708	9.3	20.2	9 18	22 25.33	+ 9 27.1	1.997	2.951	7.4	19.9
9 28	22 24.80	-21 14.2	1.838	2.711	12.6	20.4	9 28	22 17.37	+ 9 17.1	2.070	2.974	10.0	20.1
10 8	22 21.67	-21 24.9	1.928	2.715	15.5	20.6	10 8	22 11.58	+ 9 2.8	2.167	2.998	12.5	20.3
<b>106538</b>	2000 WK <sub>63</sub>	9	1.1 37 <sup>o</sup> .43	0 <sup>o</sup> 7/ 1.6 17	R		<b>448549</b>	2010 RU <sub>67</sub>	9	1.1 337 <sup>o</sup> 70	0 <sup>o</sup> 5/31.7 18		
7 30	23 37.85	+ 2 9.0	0.984	1.820	24.8	18.6	7 30	22 59.88	- 7 23.6	1.488	2.384	14.6	20.5
8 9	23 22.10	- 0 24.7	1.002	1.925	17.4	18.5	8 9	22 56.65	- 7 50.2	1.410	2.364	10.8	20.2
8 19	23 4.51	- 3 11.1	1.044	2.025	9.8	18.5	8 19	22 51.23	- 8 29.5	1.353	2.346	6.3	19.9
8 29	22 47.05	- 5 53.0	1.114	2.122	2.6	18.3	8 29	22 44.28	- 9 16.7	1.320	2.328	1.5	19.5
9 8	22 31.59	- 8 14.8	1.215	2.215	4.1	18.7	9 8	22 36.82	-10 4.9	1.311	2.312	3.7	19.7
9 18	22 19.31	-10 7.9	1.344	2.305	9.5	19.3	9 18	22 29.95	-10 47.1	1.327	2.297	8.6	19.9
9 28	22 10.76	-11 30.4	1.498	2.392	13.7	19.8	9 28	22 24.77	-11 17.3	1.367	2.283	13.2	20.1
10 8	22 5.86	-12 24.6	1.674	2.476	16.8	20.2	10 8	22 22.05	-11 31.8	1.426	2.271	17.0	20.4
<b>250863</b>	2005 UK <sub>329</sub>	9	1.1 13 <sup>o</sup> 29	1 <sup>o</sup> 9/30.6 18			<b>390952</b>	2005 LF <sub>37</sub>	9	1.1 78 <sup>o</sup> 03	2 <sup>o</sup> 4/ 3.6 18		
7 30	23 1.00	-10 27.0	1.412	2.315	14.8	19.8	7 30	23 2.61	+ 1 29.8	1.904	2.754	14.0	21.0
8 9	22 57.30	-11 7.5	1.361	2.320	10.6	19.6	8 9	22 58.03	+ 1 3.3	1.840	2.763	10.7	20.8
8 19	22 51.44	-11 56.9	1.332	2.327	6.1	19.3	8 19	22 51.73	+ 0 20.2	1.797	2.772	7.0	20.6
8 29	22 44.26	-12 48.5	1.327	2.335	2.1	19.1	8 29	22 44.36	- 0 36.5	1.780	2.781	3.4	20.4
9 8	22 36.84	-13 34.7	1.347	2.344	4.6	19.3	9 8	22 36.75	- 1 41.4	1.790	2.791	3.1	20.4
9 18	22 30.30	-14 9.2	1.391	2.354	9.1	19.6	9 18	22 29.78	- 2 48.2	1.828	2.800	6.4	20.6
9 28	22 25.61	-14 27.8	1.458	2.366	13.1	19.9	9 28	22 24.23	- 3 50.5	1.891	2.809	10.0	20.9
10 8	22 23.34	-14 29.0	1.545	2.378	16.6	20.1	10 8	22 20.65	- 4 43.5	1.978	2.818	13.1	21.1
<b>219960</b>	2002 JD <sub>54</sub>	9											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>446625</b>	2015 <i>MW</i> <sub>91</sub>		9 1.2 99°32'	2°1/30.1	18		<b>307208</b>	2002 <i>GZ</i> <sub>2</sub>		9 1.2 35°98'	19°1/29.7	17	
7 30	23 3.67	-11 25.1	1.929	2.815	12.2	20.8	7 30	23 39.84	-49 6.5	0.995	1.840	24.0	19.2
8 9	22 58.83	-12 18.0	1.868	2.819	8.8	20.6	8 9	23 25.96	-49 22.1	0.984	1.862	21.6	19.2
8 19	22 52.21	-13 17.5	1.831	2.823	5.1	20.4	8 19	23 7.65	-48 52.7	0.989	1.885	19.8	19.1
8 29	22 44.49	-14 17.8	1.821	2.827	2.1	20.2	8 29	22 47.96	-47 26.6	1.011	1.910	19.1	19.2
9 8	22 36.53	-15 12.3	1.838	2.831	4.3	20.4	9 8	22 30.20	-45 5.1	1.053	1.935	19.6	19.3
9 18	22 29.21	-15 56.0	1.882	2.835	7.9	20.6	9 18	22 16.61	-42 1.0	1.115	1.962	21.0	19.5
9 28	22 23.36	-16 25.1	1.951	2.839	11.3	20.8	9 28	22 8.08	-38 31.2	1.195	1.989	22.8	19.8
10 8	22 19.54	-16 38.2	2.042	2.843	14.3	21.0	10 8	22 4.42	-34 51.6	1.293	2.018	24.6	20.0
<b>516938</b>	2012 <i>BE</i> <sub>3</sub>		9 1.2 214°32'	4°4/25.8	18		<b>45084</b>	1999 <i>XG</i> <sub>45</sub>		9 1.2 6°37'	3°3/29.9	18	R
7 30	23 1.33	-18 22.1	2.402	3.293	9.9	21.0	7 30	22 56.91	-11 5.3	0.826	1.760	19.0	17.5
8 9	22 56.99	-20 15.0	2.340	3.290	7.3	20.9	8 9	22 55.38	-11 58.5	0.785	1.759	13.8	17.2
8 19	22 51.12	-22 10.4	2.304	3.287	5.0	20.7	8 19	22 50.79	-13 5.1	0.762	1.761	7.9	16.9
8 29	22 44.24	-24 0.6	2.298	3.284	4.6	20.7	8 29	22 44.23	-14 13.9	0.758	1.765	3.4	16.7
9 8	22 37.05	-25 38.3	2.321	3.281	6.4	20.8	9 8	22 37.31	-15 12.0	0.774	1.772	6.7	16.9
9 18	22 30.29	-26 57.9	2.371	3.277	8.9	21.0	9 18	22 31.66	-15 49.4	0.810	1.781	12.4	17.2
9 28	22 24.69	-27 56.4	2.447	3.274	11.5	21.1	9 28	22 28.60	-16 0.8	0.864	1.791	17.5	17.6
10 8	22 20.79	-28 33.3	2.543	3.270	13.7	21.3	10 8	22 28.81	-15 45.7	0.934	1.804	21.8	17.9
<b>257109</b>	2008 <i>GZ</i> <sub>68</sub>		9 1.2 128°33'	3°1/ 5.1	18		<b>181916</b>	1999 <i>TH</i> <sub>53</sub>		9 1.2 23°62'	0°2/ 1.3	18	
7 30	23 1.12	+ 5 21.5	2.405	3.226	12.3	20.8	7 30	23 3.29	- 6 18.5	1.658	2.540	14.1	19.5
8 9	22 56.68	+ 4 54.1	2.331	3.233	9.7	20.6	8 9	22 58.72	- 6 32.5	1.602	2.549	10.3	19.3
8 19	22 50.86	+ 4 10.5	2.280	3.240	6.8	20.4	8 19	22 52.22	- 6 57.4	1.568	2.558	6.1	19.1
8 29	22 44.16	+ 3 12.8	2.255	3.247	4.0	20.3	8 29	22 44.54	- 7 28.8	1.559	2.568	1.6	18.8
9 8	22 37.26	+ 2 5.2	2.258	3.254	3.3	20.3	9 8	22 36.65	- 8 1.5	1.577	2.578	3.0	19.0
9 18	22 30.82	+ 0 52.7	2.290	3.260	5.5	20.4	9 18	22 29.54	- 8 30.2	1.620	2.590	7.4	19.2
9 28	22 25.49	- 0 19.0	2.350	3.266	8.4	20.6	9 28	22 24.07	- 8 50.6	1.688	2.602	11.3	19.5
10 8	22 21.75	- 1 24.7	2.434	3.272	11.1	20.8	10 8	22 20.82	- 8 59.9	1.778	2.614	14.6	19.8
<b>259722</b>	2003 <i>YE</i> <sub>87</sub>		9 1.2 201°35'	3°7/28.4	18		<b>48018</b>	2001 <i>CB</i> <sub>36</sub>		9 1.2 107°01'	3°8/29.3	18	
7 30	23 7.06	-15 5.3	1.966	2.852	12.0	20.9	7 30	23 11.39	-16 7.5	1.610	2.499	14.1	18.7
8 9	23 1.41	-16 23.9	1.897	2.847	8.7	20.7	8 9	23 4.59	-16 53.4	1.566	2.516	10.2	18.5
8 19	22 53.81	-17 47.4	1.854	2.842	5.4	20.4	8 19	22 55.60	-17 40.8	1.544	2.534	6.2	18.3
8 29	22 44.91	-19 8.4	1.837	2.837	3.7	20.3	8 29	22 45.35	-18 22.5	1.549	2.550	3.8	18.2
9 8	22 35.65	-20 19.1	1.849	2.830	5.8	20.5	9 8	22 35.01	-18 52.0	1.581	2.566	5.9	18.4
9 18	22 26.98	-21 13.7	1.889	2.823	9.2	20.6	9 18	22 25.73	-19 5.1	1.639	2.582	9.6	18.7
9 28	22 19.85	-21 48.7	1.953	2.815	12.5	20.8	9 28	22 18.49	-19 0.6	1.720	2.597	13.2	18.9
10 8	22 14.88	-22 3.5	2.038	2.806	15.4	21.0	10 8	22 13.83	-18 39.3	1.823	2.612	16.1	19.2
<b>298058</b>	2002 <i>QB</i> <sub>81</sub>		9 1.2 356°03'	2°6/30.2	18		<b>508063</b>	2015 <i>CC</i> <sub>5</sub>		9 1.2 95°44'	1°2/ 2.1	17	
7 30	23 4.76	-12 56.7	1.463	2.363	14.5	20.0	7 30	23 7.71	- 3 22.6	1.487	2.359	16.0	21.1
8 9	23 0.12	-13 25.6	1.403	2.360	10.6	19.8	8 9	23 2.14	- 3 39.6	1.429	2.368	11.9	20.9
8 19	22 53.18	-14 0.5	1.364	2.357	6.2	19.5	8 19	22 54.32	- 4 11.8	1.392	2.378	7.3	20.6
8 29	22 44.76	-14 35.0	1.349	2.355	2.7	19.3	8 29	22 45.07	- 4 54.9	1.381	2.388	2.4	20.4
9 8	22 36.01	-15 2.2	1.360	2.354	5.1	19.5	9 8	22 35.56	- 5 42.4	1.395	2.397	3.2	20.4
9 18	22 28.11	-15 17.0	1.395	2.354	9.5	19.7	9 18	22 26.95	- 6 27.7	1.435	2.406	8.0	20.8
9 28	22 22.13	-15 16.0	1.454	2.355	13.6	20.0	9 28	22 20.29	- 7 4.9	1.500	2.415	12.3	21.0
10 8	22 18.74	-14 58.7	1.532	2.356	17.1	20.2	10 8	22 16.21	- 7 29.8	1.586	2.424	15.9	21.3
<b>329892</b>	2005 <i>GB</i> <sub>30</sub>		9 1.2 216°37'	2°1/30.3	17		<b>92306</b>	2000 <i>FL</i> <sub>28</sub>		9 1.2 43°76'	1°7/ 2.2	18	
7 30	23 6.07	- 9 50.4	1.616	2.503	14.1	20.8	7 30	23 7.98	- 3 26.4	1.012	1.907	19.9	18.5
8 9	23 0.99	-10 57.0	1.546	2.498	10.2	20.6	8 9	23 2.92	- 3 27.4	0.972	1.922	14.8	18.3
8 19	22 53.69	-12 14.6	1.500	2.493	5.9	20.3	8 19	22 54.94	- 3 48.0	0.949	1.938	9.1	18.0
8 29	22 44.90	-13 35.9	1.480	2.487	2.2	20.1	8 29	22 45.22	- 4 23.0	0.948	1.956	3.2	17.8
9 8	22 35.68	-14 52.1	1.487	2.481	4.8	20.2	9 8	22 35.34	- 5 4.4	0.970	1.973	4.0	17.9
9 18	22 27.16	-15 55.4	1.520	2.475	9.2	20.5	9 18	22 26.84	- 5 43.7	1.015	1.992	9.6	18.3
9 28	22 20.40	-16 40.6	1.577	2.468	13.3	20.7	9 28	22 20.98	- 6 13.6	1.081	2.010	14.6	18.6
10 8	22 16.11	-17 5.3	1.654	2.461	16.8	20.9	10 8	22 18.37	- 6 29.6	1.166	2.030	18.8	18.9
<b>354310</b>	2002 <i>TJ</i> <sub>316</sub>		9 1.2 0°24'	5°3/27.4	18		<b>200263</b>	1999 <i>XR</i> <sub>47</sub>		9 1.2 292°03'	9°3/22.8	18	
7 30	22 53.28	-13 17.3	1.040	1.971	16.3	18.8	7 30	23 8.12	-30 22.0	1.737	2.627	13.1	19.9
8 9	22 52.33	-15 10.3	0.993	1.966	11.7	18.6	8 9	23 2.79	-31 52.7	1.668	2.602	10.9	19.7
8 19	22 48.87	-17 15.0	0.966	1.963	7.2	18.3	8 19	22 54.92	-33 15.9	1.623	2.577	9.5	19.5
8 29	22 43.74	-19 17.5	0.960	1.962	5.3	18.2	8 29	22 45.27	-34 20.8	1.601	2.551	9.7	19.5
9 8	22 38.22	-21 2.7	0.977	1.963	8.5	18.4	9 8	22 35.03	-34 59.0	1.604	2.526	11.6	19.5
9 18	22 33.63	-22 19.4	1.015	1.967	13.1	18.7	9 18	22 25.50	-35 5.8	1.629	2.501	14.2	19.7
9 28	22 31.14	-23 2.0	1.073	1.973	17.5	18.9	9 28	22 17.92	-34 41.1	1.675	2.475	17.0	19.8
10 8	22 31.44	-23 10.4	1.147	1.980	21.1	19.2	10 8	22 13.11	-33 48.5	1.737	2.450	19.5	19.9
<b>154227</b>	2002 <i>JE</i> <sub>94</sub>		9 1.2 142°81'	1°6/ 3.1	18		<b>253496</b>	2003 <i>SQ</i> <sub>107</sub>		9 1.2 23°47'	5°3/ 4.9	17	
7 30	23 2.20	- 0 30.0	2.559	3.402	11.0	20.7	7 30	23 1.90	+ 4 11.2	0.998	1.878	21.3	19.1
8 9	22 57.39	- 0 49.5	2.487	3.408	8.3	20.5	8 9	22 58.62	+ 4 19.6	0.951	1.887	16.7	18.9
8 19	22 51.25	- 1 20.1	2.438	3.414	5.3	20.3	8 19	22 52.54	+ 3 57.9	0.921	1.897	11.6	18.6
8 29	22 44.28	- 1 59.6	2.417	3.420	2.4	20.2	8 29	22 44.67	+ 3 8.6	0.911	1.908	6.8	18.4
9 8	22 37.11	- 2 44.3	2.425	3.425	2.3	20.2	9 8	22 36.47	+ 1 59.3	0.922	1.921	5.6	18.4
9 18	22 30.40	- 3 30.1	2.461	3.430	5.2	20.4	9 18	22 29.42	+ 0 41.1	0.955	1.935	9.5	18.7
9 28	22 24.74	- 4 13.0	2.525	3.435	8.2	20.6	9 28	22 24.79	- 0 34.2	1.009	1.949	14.2	19.0
10 8	22 20.62	- 4 49.5	2.613	3.440	10.7	20.7	10 8	22 23.28	- 1 36.9	1.083	1.965	18.5	19.3
<b>222483</b>	2001 <i>SH</i> <sub>122</sub>		9 1.2 356°10'	3°5/ 3.8	18		<b>277300</b>	2005 <i>SK</i> <sub>139</sub>		9 1.2 281°60'			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>260237</b>	2004 RZ <sub>291</sub>	9 1.2 302°47'	3°4/4.9	18			<b>94030</b>	2000 XC <sub>40</sub>	9 1.2 36°14'	17°0/20.6	18		
7 30	22 59.79	+ 5 3.2	2.105	2.937	13.4	20.4	7 30	23 28.45	-52 18.3	1.549	2.358	18.5	17.0
8 9	22 56.06	+ 4 36.0	2.014	2.923	10.6	20.2	8 9	23 17.83	-53 20.5	1.532	2.366	17.4	16.9
8 19	22 50.69	+ 3 49.7	1.945	2.909	7.4	20.0	8 19	23 3.44	-53 48.7	1.533	2.374	17.0	16.9
8 29	22 44.21	+ 2 46.3	1.900	2.894	4.4	19.8	8 29	22 47.24	-53 32.6	1.553	2.382	17.2	16.9
9 8	22 37.35	+ 1 30.2	1.884	2.880	3.6	19.7	9 8	22 31.65	-52 29.0	1.591	2.391	18.0	17.0
9 18	22 30.89	+ 0 7.3	1.894	2.867	6.2	19.9	9 18	22 18.75	-50 42.5	1.647	2.400	19.2	17.2
9 28	22 25.62	- 1 15.3	1.932	2.853	9.6	20.0	9 28	22 9.76	-48 22.1	1.720	2.410	20.6	17.3
10 8	22 22.14	- 2 31.0	1.993	2.840	12.8	20.2	10 8	22 4.99	-45 38.8	1.808	2.420	21.8	17.5
<b>289471</b>	2005 EA <sub>73</sub>	9 1.2 139°55'	3°0/29.8	17			<b>84382</b>	2002 TY <sub>139</sub>	9 1.2 220°02'	2°7/3.9	18		
7 30	23 8.30	-12 47.4	1.503	2.396	14.6	20.8	7 30	23 4.41	+ 1 59.4	2.382	3.214	12.1	20.0
8 9	23 2.64	-13 42.2	1.447	2.401	10.6	20.6	8 9	22 59.22	+ 1 53.5	2.295	3.206	9.4	19.9
8 19	22 54.64	-14 43.9	1.413	2.406	6.2	20.3	8 19	22 52.47	+ 1 34.1	2.230	3.198	6.3	19.7
8 29	22 45.17	-15 44.5	1.405	2.410	3.1	20.2	8 29	22 44.69	+ 1 2.8	2.193	3.190	3.5	19.5
9 8	22 35.40	-16 35.9	1.423	2.414	5.5	20.3	9 8	22 36.57	+ 0 22.9	2.183	3.181	3.1	19.4
9 18	22 26.56	-17 12.0	1.466	2.418	9.8	20.6	9 18	22 28.86	- 0 21.6	2.202	3.172	5.8	19.6
9 28	22 19.70	-17 29.2	1.533	2.422	13.8	20.8	9 28	22 22.30	- 1 5.9	2.249	3.162	8.9	19.8
10 8	22 15.50	-17 27.1	1.620	2.426	17.2	21.1	10 8	22 17.43	- 1 45.7	2.320	3.152	11.8	19.9
<b>206137</b>	2002 TS <sub>12</sub>	9 1.2 359°00'	0°1/1.1	18			<b>359894</b>	2011 WD <sub>58</sub>	9 1.2 171°79'	0°6/1.9	18		
7 30	23 2.14	- 5 6.7	1.789	2.666	13.5	20.0	7 30	23 2.67	- 3 44.3	2.623	3.476	10.4	22.1
8 9	22 57.89	- 5 56.8	1.721	2.665	9.9	19.7	8 9	22 57.75	- 4 16.4	2.548	3.479	7.7	21.9
8 19	22 51.78	- 7 0.2	1.676	2.665	5.8	19.5	8 19	22 51.51	- 4 58.0	2.498	3.481	4.7	21.7
8 29	22 44.48	- 8 11.8	1.656	2.665	1.4	19.2	8 29	22 44.43	- 5 45.9	2.476	3.483	1.4	21.5
9 8	22 36.85	- 9 24.4	1.664	2.665	3.1	19.3	9 8	22 37.15	- 6 36.2	2.484	3.485	2.1	21.5
9 18	22 29.84	-10 31.2	1.699	2.665	7.4	19.6	9 18	22 30.29	- 7 24.8	2.520	3.486	5.3	21.8
9 28	22 24.33	-11 26.3	1.758	2.665	11.3	19.9	9 28	22 24.47	- 8 7.7	2.584	3.487	8.3	22.0
10 8	22 20.90	-12 6.0	1.840	2.666	14.6	20.1	10 8	22 20.16	- 8 42.0	2.673	3.487	10.9	22.1
<b>402290</b>	2005 SC <sub>197</sub>	9 1.2 25°27'	0°1/1.0	17			<b>33577</b>	1999 JX <sub>33</sub>	9 1.2 6°05'	7°2/28.1	18		
7 30	22 59.87	- 5 36.1	0.668	1.600	22.4	20.5	7 30	23 8.70	-22 48.2	1.181	2.093	16.4	16.8
8 9	22 57.68	- 6 10.5	0.643	1.615	16.4	20.3	8 9	23 3.45	-23 21.8	1.135	2.093	12.4	16.6
8 19	22 52.11	- 7 7.6	0.634	1.632	9.5	20.0	8 19	22 55.30	-23 49.5	1.109	2.094	8.7	16.4
8 29	22 44.55	- 8 16.5	0.642	1.651	2.2	19.7	8 29	22 45.38	-24 1.9	1.105	2.096	7.2	16.4
9 8	22 36.91	- 9 23.3	0.670	1.673	5.0	20.0	9 8	22 35.24	-23 51.7	1.124	2.100	9.3	16.5
9 18	22 30.95	-10 16.0	0.716	1.696	11.5	20.4	9 18	22 26.42	-23 16.6	1.165	2.105	13.1	16.7
9 28	22 27.95	-10 46.9	0.780	1.721	17.1	20.8	9 28	22 20.17	-22 17.9	1.227	2.111	16.9	17.0
10 8	22 28.43	-10 53.7	0.860	1.747	21.6	21.2	10 8	22 17.12	-21 0.2	1.307	2.118	20.2	17.2
<b>163989</b>	2003 UD <sub>147</sub>	9 1.2 307°23'	5°0/6.0	18			<b>21830</b>	1999 TW <sub>93</sub>	9 1.2 311°04'	1°4/30.8	18		
7 30	23 0.50	+ 7 49.2	1.685	2.517	16.3	19.8	7 30	23 1.91	- 9 37.9	1.899	2.785	12.4	18.7
8 9	22 56.97	+ 7 31.9	1.597	2.501	13.2	19.6	8 9	22 57.81	-10 19.0	1.813	2.764	9.0	18.4
8 19	22 51.41	+ 6 49.5	1.528	2.485	9.6	19.3	8 19	22 51.84	-11 9.3	1.751	2.743	5.2	18.1
8 29	22 44.44	+ 5 42.6	1.482	2.470	6.3	19.1	8 29	22 44.56	-12 3.9	1.715	2.723	1.6	17.9
9 8	22 36.93	+ 4 16.1	1.462	2.455	5.1	19.0	9 8	22 36.83	-12 56.5	1.706	2.703	3.8	18.0
9 18	22 29.92	+ 2 37.4	1.467	2.440	7.6	19.1	9 18	22 29.55	-13 41.3	1.723	2.683	7.9	18.2
9 28	22 24.39	+ 0 56.2	1.498	2.426	11.4	19.3	9 28	22 23.66	-14 13.5	1.765	2.664	11.7	18.4
10 8	22 21.11	- 0 38.2	1.552	2.412	15.1	19.5	10 8	22 19.82	-14 30.4	1.829	2.644	15.1	18.6
<b>96456</b>	1998 HS <sub>22</sub>	9 1.2 96°44'	6°0/27.4	18			<b>204959</b>	2008 WT <sub>98</sub>	9 1.2 179°88'	7°3/8.1	18		
7 30	23 10.67	-23 1.2	1.742	2.633	13.1	19.1	7 30	23 5.34	+13 10.8	1.936	2.720	16.2	20.3
8 9	23 4.05	-23 51.1	1.699	2.645	9.9	18.9	8 9	23 0.24	+13 42.2	1.858	2.720	13.6	20.1
8 19	22 55.30	-24 36.2	1.678	2.657	7.0	18.8	8 19	22 53.21	+13 51.0	1.799	2.721	10.9	19.9
8 29	22 45.32	-25 8.8	1.684	2.668	6.0	18.7	8 29	22 44.90	+13 35.8	1.763	2.721	8.4	19.8
9 8	22 35.25	-25 23.4	1.715	2.680	7.8	18.9	9 8	22 36.18	+12 58.2	1.753	2.721	7.3	19.7
9 18	22 26.20	-25 17.2	1.773	2.691	10.7	19.1	9 18	22 28.01	+12 2.6	1.768	2.720	8.4	19.8
9 28	22 19.10	-24 50.6	1.853	2.703	13.6	19.3	9 28	22 21.30	+10 55.7	1.808	2.720	10.8	19.9
10 8	22 14.51	-24 6.3	1.954	2.714	16.2	19.5	10 8	22 16.71	+ 9 45.6	1.872	2.719	13.5	20.1
<b>264366</b>	2000 CA <sub>99</sub>	9 1.2 251°70'	0°5/31.8	18			<b>523562</b>	2017 YR <sub>9</sub>	9 1.2 258°73'	4°8/28.2	18		
7 30	23 5.61	- 6 23.6	1.686	2.563	14.1	21.9	7 30	23 6.79	-16 25.0	1.484	2.384	14.3	21.1
8 9	23 0.69	- 7 8.5	1.605	2.551	10.4	21.6	8 9	23 1.77	-17 38.3	1.421	2.377	10.5	20.8
8 19	22 53.58	- 8 6.9	1.548	2.538	6.1	21.3	8 19	22 54.30	-18 56.3	1.381	2.371	6.7	20.6
8 29	22 44.97	- 9 13.5	1.515	2.524	1.4	21.0	8 29	22 45.19	-20 9.6	1.365	2.364	4.8	20.5
9 8	22 35.84	-10 21.0	1.510	2.510	3.6	21.1	9 8	22 35.63	-21 8.8	1.375	2.357	7.3	20.6
9 18	22 27.29	-11 22.1	1.532	2.496	8.3	21.4	9 18	22 26.88	-21 47.3	1.410	2.350	11.2	20.8
9 28	22 20.38	-12 10.7	1.578	2.481	12.6	21.6	9 28	22 20.12	-22 1.7	1.467	2.343	15.1	21.0
10 8	22 15.84	-12 42.9	1.645	2.467	16.2	21.8	10 8	22 16.08	-21 52.6	1.543	2.335	18.5	21.2
<b>342011</b>	2008 RK <sub>63</sub>	9 1.2 97°92'	4°3/29.3	16			<b>334958</b>	2004 CW <sub>111</sub>	9 1.2 149°50'	3°6/28.1	18		
7 30	23 12.96	-19 1.3	1.672	2.559	13.7	20.5	7 30	23 3.24	-15 19.7	2.051	2.941	11.4	20.8
8 9	23 5.80	-19 20.7	1.617	2.565	10.1	20.3	8 9	22 58.54	-16 40.4	1.992	2.945	8.2	20.6
8 19	22 56.38	-19 38.2	1.585	2.571	6.4	20.1	8 19	22 52.12	-18 5.0	1.959	2.948	5.1	20.4
8 29	22 45.60	-19 47.7	1.579	2.577	4.3	20.0	8 29	22 44.62	-19 26.4	1.952	2.951	3.6	20.3
9 8	22 34.67	-19 44.1	1.600	2.584	6.2	20.2	9 8	22 36.86	-20 37.4	1.974	2.954	5.6	20.5
9 18	22 24.77	-19 24.8	1.648	2.590	9.7	20.4	9 18	22 29.70	-21 32.8	2.023	2.956	8.7	20.7
9 28	22 16.90	-18 49.8	1.720	2.596	13.3	20.6	9 28	22 23.93	-22 9.4	2.096	2.959	11.7	20.9
10 8	22 11.68	-18 0.7	1.813	2.602	16.3	20.8	10 8	22 20.10	-22 26.5	2.190	2.961	14.3	21.1
<b>405274</b>	2003 SM <sub>336</sub>	9 1.2 327°75'	3°6/28.6	16			<b>295192</b>	2008 FX <sub>101</sub>	9 1.2 47°53'	2°1/30.0	18		
7 30	23 0.88	-15 16.7	1.851	2.749</									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>77496</b>	2001 <i>HO</i> <sub>37</sub>	9 1.2 68°12'	4.9/28.1	18			<b>363663</b>	2004 <i>TC</i> <sub>26</sub>	9 1.2 56°58'	5°0'/7.5	18		
7 30	23 8.14	-20 2.1	1.751	2.644	12.9	18.8	7 30	23 0.09	+11 11.8	2.078	2.878	14.7	20.7
8 9	23 2.24	-20 47.9	1.702	2.653	9.5	18.6	8 9	22 56.18	+10 39.6	2.009	2.889	12.0	20.5
8 19	22 54.30	-21 31.9	1.677	2.662	6.3	18.4	8 19	22 50.72	+9 44.5	1.961	2.901	9.0	20.4
8 29	22 45.15	-22 7.1	1.678	2.671	5.0	18.4	8 29	22 44.30	+8 28.4	1.937	2.913	6.2	20.2
9 8	22 35.84	-22 27.6	1.705	2.680	6.8	18.5	9 8	22 37.67	+6 56.0	1.940	2.926	5.0	20.2
9 18	22 27.45	-22 30.1	1.758	2.689	9.9	18.7	9 18	22 31.59	+5 14.3	1.970	2.938	6.4	20.3
9 28	22 20.86	-22 13.9	1.834	2.699	13.1	18.9	9 28	22 26.79	+3 31.1	2.028	2.951	9.2	20.5
10 8	22 16.66	-21 40.6	1.931	2.708	15.8	19.2	10 8	22 23.76	+1 53.9	2.110	2.963	11.9	20.7
<b>227447</b>	2005 <i>WF</i> <sub>48</sub>	9 1.2 134°01'	0°4'/31.9	17			<b>419519</b>	2010 <i>HZ</i> <sub>100</sub>	9 1.2 13°28'	1°1'/31.8	17		
7 30	23 7.00	-6 45.0	1.810	2.683	13.5	21.3	7 30	23 6.87	-12 11.0	0.755	1.683	21.0	19.2
8 9	23 1.35	-7 21.2	1.749	2.692	9.9	21.1	8 9	23 2.83	-11 28.3	0.718	1.688	15.4	18.9
8 19	22 53.79	-8 8.0	1.712	2.701	5.7	20.9	8 19	22 55.21	-10 52.5	0.698	1.696	9.0	18.6
8 29	22 45.04	-9 0.2	1.701	2.709	1.3	20.6	8 29	22 45.42	-10 19.2	0.697	1.706	2.2	18.2
9 8	22 36.05	-9 51.8	1.717	2.717	3.2	20.8	9 8	22 35.46	-9 43.6	0.716	1.718	5.1	18.5
9 18	22 27.79	-10 37.0	1.761	2.725	7.4	21.0	9 18	22 27.23	-9 2.7	0.754	1.733	11.5	18.9
9 28	22 21.17	-11 11.3	1.831	2.732	11.2	21.3	9 28	22 22.18	-8 14.6	0.811	1.749	17.0	19.3
10 8	22 16.74	-11 32.2	1.922	2.739	14.4	21.5	10 8	22 20.94	-7 18.5	0.885	1.768	21.6	19.6
<b>245241</b>	2004 <i>XC</i> <sub>160</sub>	9 1.2 182°09'	5°9'/25.8	18			<b>179482</b>	2002 <i>CN</i> <sub>17</sub>	9 1.2 342°57'	0°0'/31.9	18		
7 30	23 6.87	-23 48.4	2.116	3.004	11.2	21.0	7 30	23 4.96	-7 18.4	1.917	2.792	12.8	19.8
8 9	23 1.20	-25 4.6	2.062	3.005	8.6	20.8	8 9	22 59.88	-7 28.1	1.845	2.789	9.4	19.6
8 19	22 53.69	-26 17.4	2.032	3.005	6.5	20.7	8 19	22 52.96	-7 46.3	1.797	2.786	5.5	19.3
8 29	22 45.02	-27 19.3	2.029	3.005	6.0	20.7	8 29	22 44.87	-8 9.7	1.775	2.783	1.4	19.1
9 8	22 36.09	-28 4.1	2.053	3.004	7.7	20.8	9 8	22 36.47	-8 33.8	1.780	2.781	2.9	19.2
9 18	22 27.83	-28 28.2	2.104	3.003	10.2	21.0	9 18	22 28.68	-8 54.2	1.812	2.779	7.0	19.4
9 28	22 21.10	-28 30.6	2.177	3.002	12.8	21.1	9 28	22 22.36	-9 7.3	1.870	2.778	10.7	19.7
10 8	22 16.47	-28 12.8	2.271	3.000	15.0	21.3	10 8	22 18.10	-9 10.6	1.951	2.776	13.9	19.9
<b>158697</b>	2003 <i>FG</i> <sub>83</sub>	9 1.2 70°61'	1°5'/2.7	18			<b>482140</b>	2010 <i>RC</i> <sub>183</sub>	9 1.2 307°64'	1°6'/2.6	17		
7 30	23 3.32	+0 35.0	1.552	2.416	15.9	19.6	7 30	23 4.86	-3 4.9	1.980	2.841	13.0	21.0
8 9	22 58.84	-0 28.9	1.501	2.435	11.9	19.4	8 9	22 59.85	-2 59.5	1.896	2.829	9.9	20.8
8 19	22 52.36	-1 52.9	1.472	2.454	7.4	19.2	8 19	22 52.99	-3 5.3	1.835	2.817	6.2	20.5
8 29	22 44.69	-3 30.6	1.467	2.473	2.8	19.0	8 29	22 44.89	-3 20.2	1.800	2.805	2.5	20.3
9 8	22 36.84	-5 13.3	1.489	2.492	3.0	19.1	9 8	22 36.39	-3 40.6	1.792	2.794	2.8	20.3
9 18	22 29.83	-6 51.5	1.539	2.511	7.4	19.4	9 18	22 28.38	-4 2.6	1.812	2.783	6.6	20.5
9 28	22 24.55	-8 17.1	1.613	2.530	11.5	19.7	9 28	22 21.75	-4 21.8	1.857	2.772	10.4	20.7
10 8	22 21.56	-9 25.0	1.710	2.549	14.9	19.9	10 8	22 17.14	-4 34.6	1.926	2.761	13.7	20.9
<b>216814</b>	2006 <i>UO</i> <sub>69</sub>	9 1.2 11°12'	0°0'/1.0	17			<b>360871</b>	2005 <i>SM</i> <sub>17</sub>	9 1.2 301°42'	2°8'/29.7	18		
7 30	22 53.09	-2 55.1	0.797	1.722	20.6	18.1	7 30	23 6.28	-15 20.7	1.994	2.881	11.8	20.8
8 9	22 52.58	-4 1.4	0.759	1.726	15.2	17.8	8 9	23 0.83	-15 46.9	1.923	2.873	8.6	20.6
8 19	22 49.19	-5 35.8	0.736	1.733	9.0	17.5	8 19	22 53.52	-16 15.6	1.875	2.865	5.2	20.4
8 29	22 43.96	-7 27.3	0.733	1.742	2.2	17.2	8 29	22 45.01	-16 41.5	1.854	2.857	2.9	20.2
9 8	22 38.39	-9 19.9	0.750	1.753	4.5	17.4	9 8	22 36.18	-16 59.8	1.860	2.849	4.7	20.3
9 18	22 33.98	-10 58.3	0.787	1.767	10.8	17.8	9 18	22 27.98	-17 6.7	1.893	2.842	8.2	20.5
9 28	22 32.00	-12 11.0	0.844	1.783	16.3	18.2	9 28	22 21.26	-17 0.0	1.952	2.834	11.6	20.7
10 8	22 33.07	-12 53.2	0.917	1.801	20.8	18.5	10 8	22 16.64	-16 39.5	2.032	2.827	14.5	20.9
<b>169816</b>	2002 <i>QK</i> <sub>55</sub>	9 1.2 292°80'	2°5'/30.1	18			<b>69547</b>	1997 <i>KU</i> <sub>1</sub>	9 1.2 203°72'	3°1'/4.9	18		
7 30	23 6.20	-13 23.2	1.807	2.695	12.8	20.6	7 30	23 2.47	+5 17.1	2.164	2.989	13.4	20.4
8 9	23 0.90	-13 57.2	1.739	2.690	9.3	20.4	8 9	22 57.95	+4 39.0	2.080	2.986	10.5	20.2
8 19	22 53.61	-14 36.0	1.694	2.686	5.5	20.1	8 19	22 51.81	+3 41.8	2.019	2.982	7.3	20.0
8 29	22 45.02	-15 13.9	1.676	2.681	2.6	19.9	8 29	22 44.60	+2 28.1	1.984	2.978	4.2	19.8
9 8	22 36.11	-15 45.0	1.684	2.677	4.7	20.1	9 8	22 37.07	+1 2.9	1.977	2.974	3.4	19.8
9 18	22 27.87	-16 4.7	1.719	2.672	8.5	20.3	9 18	22 29.99	+0 27.6	1.998	2.969	6.1	19.9
9 28	22 21.26	-16 10.0	1.779	2.668	12.2	20.5	9 28	22 24.15	+1 56.1	2.047	2.964	9.4	20.1
10 8	22 16.90	-16 0.1	1.860	2.664	15.3	20.7	10 8	22 20.09	+3 16.4	2.120	2.959	12.5	20.3
<b>333740</b>	2009 <i>XB</i>	9 1.2 290°08'	6°5'/6.4	18			<b>453650</b>	2010 <i>TD</i> <sub>103</sub>	9 1.2 334°36'	5°0'/27.8	18		
7 30	23 5.38	+8 42.1	1.593	2.416	17.4	20.1	7 30	23 5.98	-20 47.3	1.871	2.765	12.1	21.0
8 9	23 0.63	+9 7.8	1.516	2.411	14.3	19.9	8 9	23 0.73	-21 31.3	1.809	2.760	9.1	20.8
8 19	22 53.62	+9 10.1	1.458	2.406	10.8	19.7	8 19	22 53.50	-22 13.6	1.771	2.755	6.2	20.6
8 29	22 45.06	+8 47.9	1.422	2.402	7.7	19.5	8 29	22 45.01	-22 47.5	1.759	2.750	5.0	20.5
9 8	22 35.99	+8 4.1	1.412	2.397	6.6	19.4	9 8	22 36.25	-23 7.3	1.772	2.745	6.8	20.6
9 18	22 27.54	+7 4.3	1.426	2.392	8.6	19.6	9 18	22 28.22	-23 9.5	1.812	2.741	9.9	20.8
9 28	22 20.82	+5 56.7	1.465	2.388	12.0	19.7	9 28	22 21.82	-22 52.8	1.875	2.737	13.0	21.0
10 8	22 16.58	+4 50.0	1.526	2.384	15.4	20.0	10 8	22 17.66	-22 18.4	1.959	2.733	15.7	21.2
<b>404007</b>	2012 <i>CB</i> <sub>2</sub>	9 1.2 127°35'	0°9'/2.3	18			<b>162899</b>	2001 <i>HB</i> <sub>27</sub>	9 1.2 106°05'	4°3'/6.2	18		
7 30	23 2.77	-3 23.0	2.600	3.452	10.6	22.0	7 30	23 2.84	+8 25.4	2.045	2.856	14.5	20.1
8 9	22 57.82	-3 41.9	2.531	3.460	7.8	21.9	8 9	22 58.18	+7 56.6	1.977	2.870	11.6	20.0
8 19	22 51.55	-4 9.9	2.487	3.469	4.8	21.7	8 19	22 51.90	+7 6.8	1.932	2.883	8.4	19.8
8 29	22 44.49	-4 44.4	2.470	3.477	1.7	21.5	8 29	22 44.61	+5 58.1	1.911	2.896	5.4	19.7
9 8	22 37.26	-5 21.7	2.483	3.484	2.1	21.5	9 8	22 37.11	+4 35.5	1.918	2.909	4.4	19.6
9 18	22 30.48	-5 58.3	2.524	3.492	5.2	21.8	9 18	22 30.21	+3 5.5	1.952	2.922	6.4	19.8
9 28	22 24.77	-6 30.5	2.593	3.499	8.1	22.0	9 28	22 24.65	+1 35.7	2.014	2.934	9.4	20.0
10 8	22 20.57	-6 55.7	2.686	3.506	10.7	22.1	10 8	22 20.96	+0 12.7	2.100	2.946	12.3	20.2
<b>118700</b>	2000 <i>OQ</i> <sub>53</sub>	9 1.2 26°22'	9°6'/8.4	18			<b>314416</b>	2005 <i>UF</i> <sub>349</sub>	9 1.2 310°95'	1°3'/2.1	17		
7 30	23 7.12	+13 24.4	1.486	2.287	19.								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>210750</b>	2000 VO <sub>12</sub>		9 1.2 359°93	7°0/27.9	18	R	<b>90392</b>	2003 XB <sub>12</sub>		9 1.2 228°23	9°7/13.7	18	
7 30	23 4.67	-19 12.5	0.982	1.906	17.7	19.0	7 30	23 3.49	+25 28.5	2.393	3.072	16.0	19.7
8 9	23 0.98	-20 16.0	0.936	1.903	13.1	18.7	8 9	22 58.80	+25 54.8	2.298	3.063	14.4	19.5
8 19	22 54.13	-21 20.1	0.909	1.901	8.8	18.5	8 19	22 52.39	+25 55.6	2.219	3.054	12.6	19.4
8 29	22 45.22	-22 12.3	0.903	1.900	7.0	18.4	8 29	22 44.80	+25 28.1	2.161	3.044	11.0	19.3
9 8	22 35.92	-22 41.7	0.919	1.901	9.7	18.5	9 8	22 36.77	+24 32.1	2.127	3.034	9.9	19.2
9 18	22 27.92	-22 42.2	0.954	1.903	14.2	18.8	9 18	22 29.13	+23 10.6	2.116	3.024	9.8	19.2
9 28	22 22.64	-22 13.1	1.009	1.906	18.5	19.1	9 28	22 22.72	+21 29.7	2.131	3.013	10.8	19.2
10 8	22 20.79	-21 18.0	1.080	1.910	22.3	19.3	10 8	22 18.15	+19 37.9	2.171	3.002	12.5	19.3
<b>339181</b>	2004 TV <sub>145</sub>		9 1.2 359°65	0°7/31.7	18		<b>418295</b>	2008 FA <sub>11</sub>		9 1.2 94°17	2°7/30.2	17	
7 30	23 1.72	- 6 56.3	1.243	2.144	16.5	20.5	7 30	23 8.56	-12 15.9	1.480	2.372	14.9	21.4
8 9	22 58.26	- 7 34.1	1.184	2.141	12.1	20.2	8 9	23 2.84	-13 1.7	1.429	2.383	10.7	21.1
8 19	22 52.33	- 8 26.9	1.146	2.139	7.0	20.0	8 19	22 54.81	-13 54.1	1.400	2.393	6.2	20.9
8 29	22 44.77	- 9 28.2	1.130	2.139	1.7	19.6	8 29	22 45.37	-14 45.9	1.396	2.403	2.7	20.7
9 8	22 36.81	-10 29.1	1.138	2.139	4.1	19.8	9 8	22 35.71	-15 29.5	1.419	2.412	5.1	20.9
9 18	22 29.73	-11 21.0	1.170	2.140	9.4	20.1	9 18	22 27.03	-15 59.0	1.467	2.422	9.5	21.2
9 28	22 24.69	-11 57.5	1.224	2.143	14.2	20.4	9 28	22 20.37	-16 11.3	1.538	2.432	13.5	21.4
10 8	22 22.41	-12 15.0	1.297	2.146	18.1	20.7	10 8	22 16.35	-16 6.0	1.630	2.441	16.8	21.7
<b>169520</b>	2002 EQ <sub>21</sub>		9 1.2 254°46	2°9/29.8	17		<b>453395</b>	2009 DB <sub>25</sub>		9 1.2 88°83	0°5/31.5	18	
7 30	23 5.45	-10 37.2	1.391	2.288	15.3	20.2	7 30	22 59.54	- 8 16.7	3.129	3.996	8.6	21.4
8 9	23 0.89	-11 52.2	1.327	2.283	11.1	19.9	8 9	22 55.32	- 8 48.9	3.065	4.005	6.2	21.2
8 19	22 53.86	-13 19.3	1.285	2.279	6.4	19.6	8 19	22 50.06	- 9 26.3	3.026	4.015	3.5	21.1
8 29	22 45.16	-14 49.4	1.268	2.274	2.9	19.4	8 29	22 44.17	-10 6.1	3.016	4.024	0.9	20.9
9 8	22 35.99	-16 12.0	1.276	2.269	5.7	19.6	9 8	22 38.16	-10 44.9	3.035	4.034	2.2	21.0
9 18	22 27.63	-17 18.3	1.309	2.265	10.4	19.8	9 18	22 32.52	-11 19.8	3.083	4.043	4.8	21.2
9 28	22 21.26	-18 2.4	1.365	2.260	14.8	20.1	9 28	22 27.72	-11 48.1	3.159	4.052	7.3	21.4
10 8	22 17.64	-18 22.5	1.441	2.255	18.5	20.3	10 8	22 24.14	-12 8.0	3.259	4.062	9.4	21.5
<b>317799</b>	2003 SL <sub>195</sub>		9 1.2 353°72	8°5/ 9.4	17		<b>348356</b>	2005 EF <sub>165</sub>		9 1.2 303°66	3°1/29.8	18	
7 30	23 0.58	+14 49.2	1.545	2.345	18.9	19.9	7 30	23 6.85	-14 48.8	1.740	2.631	13.1	20.5
8 9	22 57.17	+15 7.5	1.470	2.341	16.1	19.7	8 9	23 1.50	-15 21.4	1.671	2.623	9.5	20.2
8 19	22 51.62	+14 55.7	1.413	2.339	13.0	19.5	8 19	22 54.04	-15 57.7	1.625	2.616	5.7	20.0
8 29	22 44.61	+14 12.1	1.377	2.337	10.1	19.3	8 29	22 45.21	-16 31.7	1.605	2.609	3.1	19.8
9 8	22 37.13	+12 59.3	1.363	2.335	8.5	19.2	9 8	22 36.01	-16 57.1	1.612	2.602	5.2	19.9
9 18	22 30.29	+11 24.3	1.373	2.334	9.4	19.3	9 18	22 27.52	-17 9.6	1.645	2.595	9.0	20.2
9 28	22 25.13	+ 9 37.3	1.408	2.334	12.1	19.4	9 28	22 20.73	-17 6.6	1.702	2.589	12.8	20.4
10 8	22 22.37	+ 7 49.7	1.464	2.335	15.2	19.6	10 8	22 16.30	-16 47.7	1.780	2.582	15.9	20.6
<b>489932</b>	2008 RG <sub>44</sub>		9 1.2 319°21	1°0/31.5	18		<b>521731</b>	2015 RB <sub>270</sub>		9 1.2 71°97	2°3/30.1	18	
7 30	23 4.03	- 8 40.4	1.384	2.279	15.5	21.3	7 30	23 6.51	-14 18.0	2.107	2.989	11.5	21.4
8 9	22 59.98	- 9 5.6	1.306	2.260	11.4	21.1	8 9	23 0.80	-14 40.8	2.047	2.996	8.3	21.2
8 19	22 53.43	- 9 42.8	1.248	2.241	6.7	20.7	8 19	22 53.42	-15 6.1	2.012	3.003	4.9	21.0
8 29	22 45.08	-10 26.6	1.215	2.223	1.7	20.4	8 29	22 45.02	-15 29.4	2.005	3.009	2.4	20.9
9 8	22 36.10	-11 9.6	1.206	2.206	4.2	20.5	9 8	22 36.45	-15 46.3	2.025	3.016	4.1	21.0
9 18	22 27.78	-11 44.6	1.221	2.189	9.5	20.8	9 18	22 28.56	-15 53.5	2.073	3.023	7.5	21.2
9 28	22 21.38	-12 5.8	1.260	2.173	14.3	21.0	9 28	22 22.11	-15 49.1	2.146	3.030	10.6	21.4
10 8	22 17.74	-12 10.1	1.317	2.158	18.4	21.2	10 8	22 17.62	-15 32.8	2.242	3.037	13.3	21.6
<b>298692</b>	2004 DL <sub>70</sub>		9 1.2 227°59	0°5/ 1.8	18		<b>290777</b>	2005 VX <sub>26</sub>		9 1.2 115°65	4°4/ 6.3	18	
7 30	23 3.07	- 3 46.3	2.178	3.040	12.0	21.2	7 30	23 2.16	+ 7 57.5	2.282	3.090	13.3	21.1
8 9	22 58.39	- 4 24.4	2.098	3.033	8.9	21.0	8 9	22 57.62	+ 7 51.4	2.206	3.095	10.7	20.9
8 19	22 52.08	- 5 14.5	2.042	3.026	5.4	20.8	8 19	22 51.58	+ 7 27.4	2.153	3.101	7.9	20.8
8 29	22 44.70	- 6 12.8	2.012	3.019	1.6	20.5	8 29	22 44.58	+ 6 46.6	2.124	3.106	5.3	20.6
9 8	22 36.99	- 7 14.2	2.010	3.012	2.5	20.6	9 8	22 37.33	+ 5 52.4	2.123	3.111	4.4	20.6
9 18	22 29.74	- 8 13.3	2.037	3.005	6.3	20.8	9 18	22 30.57	+ 4 49.5	2.149	3.116	6.1	20.7
9 28	22 23.72	- 9 4.8	2.091	2.997	9.8	21.0	9 28	22 24.98	+ 3 43.6	2.203	3.121	8.8	20.9
10 8	22 19.50	- 9 45.2	2.168	2.989	12.9	21.2	10 8	22 21.10	+ 2 40.6	2.281	3.126	11.5	21.1
<b>482362</b>	2011 WH <sub>152</sub>		9 1.2 321°13	1°3/ 2.1	17		<b>168612</b>	2000 AP <sub>229</sub>		9 1.2 118°44	5°3/26.9	18	
7 30	23 5.20	- 4 53.3	1.591	2.468	14.8	21.8	7 30	23 6.54	-21 19.2	1.987	2.878	11.7	19.9
8 9	23 0.58	- 4 43.6	1.506	2.448	11.2	21.5	8 9	23 0.97	-22 29.2	1.939	2.887	8.7	19.7
8 19	22 53.68	- 4 45.6	1.442	2.428	6.9	21.2	8 19	22 53.57	-23 37.0	1.917	2.897	6.1	19.6
8 29	22 45.14	- 4 56.7	1.402	2.409	2.4	20.9	8 29	22 45.06	-24 35.2	1.920	2.906	5.4	19.6
9 8	22 36.01	- 5 12.8	1.388	2.390	3.2	20.9	9 8	22 36.38	-25 17.8	1.951	2.915	7.1	19.7
9 18	22 27.42	- 5 29.2	1.400	2.372	8.0	21.2	9 18	22 28.45	-25 41.1	2.008	2.923	9.8	19.9
9 28	22 20.52	- 5 40.9	1.435	2.355	12.5	21.4	9 28	22 22.11	-25 43.9	2.089	2.932	12.6	20.1
10 8	22 16.11	- 5 44.1	1.492	2.338	16.4	21.6	10 8	22 17.90	-25 27.6	2.189	2.940	14.9	20.3
<b>188955</b>	2007 EE <sub>127</sub>		9 1.2 101°27	1°5/30.4	18		<b>209864</b>	2005 JW <sub>50</sub>		9 1.2 72°69	2°7/29.7	18	
7 30	23 1.42	- 9 32.6	2.255	3.134	11.0	20.0	7 30	23 4.87	-13 23.7	1.848	2.737	12.5	20.4
8 9	22 57.07	-10 36.6	2.193	3.141	7.9	19.8	8 9	22 59.85	-14 13.3	1.790	2.742	9.0	20.2
8 19	22 51.23	-11 48.1	2.155	3.147	4.5	19.6	8 19	22 52.96	-15 7.7	1.756	2.747	5.3	20.0
8 29	22 44.47	-13 1.7	2.145	3.153	1.6	19.5	8 29	22 44.92	-16 0.8	1.748	2.753	2.8	19.8
9 8	22 37.50	-14 11.4	2.164	3.159	3.5	19.6	9 8	22 36.65	-16 46.2	1.768	2.758	4.8	20.0
9 18	22 31.05	-15 12.1	2.211	3.165	6.9	19.8	9 18	22 29.09	-17 18.9	1.814	2.763	8.4	20.2
9 28	22 25.79	-15 59.7	2.284	3.170	10.0	20.0	9 28	22 23.08	-17 36.0	1.884	2.768	11.8	20.4
10 8	22 22.23	-16 32.3	2.380	3.176	12.6	20.2	10 8	22 19.21	-17 36.7	1.976	2.774	14.8	20.6
<b>391961</b>	2008 WZ <sub>97</sub>		9 1.2 259°33	2°3/29.8	18		<b>482614</b>	2013 AB <sub>22</sub>		9 1.2 333°46	5°1/27.8	18	
7 30	23 3.39	-10 27.0	1										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>80517</b>	2000 AM <sub>59</sub>		9 1.2 331°48	5°8/ 4.3 18			<b>5720</b>	Halweaver		9 1.2 211°23	11°2/19.8 18	R	
7 30	23 7.06	+ 2 2.1	1.216	2.084	19.1	18.3	7 30	23 18.65	-41 26.3	2.124	2.965	13.0	18.5
8 9	23 2.51	+ 3 1.1	1.141	2.070	15.2	18.0	8 9	23 10.28	-42 57.8	2.079	2.956	11.7	18.4
8 19	22 55.07	+ 3 41.5	1.085	2.057	10.8	17.7	8 19	22 59.27	-44 12.1	2.056	2.947	11.2	18.3
8 29	22 45.55	+ 4 1.6	1.051	2.045	6.8	17.5	8 29	22 46.55	-44 59.5	2.057	2.936	11.6	18.3
9 8	22 35.25	+ 4 2.8	1.039	2.034	6.2	17.4	9 8	22 33.47	-45 14.3	2.082	2.925	12.8	18.4
9 18	22 25.70	+ 3 49.3	1.051	2.024	9.8	17.6	9 18	22 21.45	-44 55.2	2.129	2.912	14.5	18.5
9 28	22 18.35	+ 3 28.3	1.084	2.015	14.4	17.8	9 28	22 11.69	-44 5.2	2.195	2.898	16.3	18.6
10 8	22 14.17	+ 3 7.5	1.137	2.007	18.7	18.0	10 8	22 4.92	-42 50.0	2.277	2.884	17.8	18.7
<b>237228</b>	2008 VU <sub>59</sub>		9 1.2 256°08	0°3/ 1.6 18			<b>344103</b>	1999 TD <sub>127</sub>		9 1.2 303°05	4°8/ 5.8 18		
7 30	23 4.39	- 4 33.6	1.852	2.722	13.4	20.7	7 30	23 0.70	+ 7 33.6	1.650	2.484	16.5	20.3
8 9	22 59.64	- 5 7.6	1.772	2.712	10.0	20.5	8 9	22 57.33	+ 7 10.4	1.552	2.458	13.3	20.1
8 19	22 52.97	- 5 54.9	1.715	2.702	6.0	20.2	8 19	22 51.83	+ 6 20.5	1.473	2.433	9.7	19.8
8 29	22 44.98	- 6 51.1	1.684	2.692	1.6	19.9	8 29	22 44.77	+ 5 4.5	1.417	2.407	6.2	19.5
9 8	22 36.57	- 7 50.4	1.680	2.682	2.9	20.0	9 8	22 37.04	+ 3 27.0	1.387	2.382	5.0	19.4
9 18	22 28.70	- 8 46.4	1.704	2.672	7.3	20.2	9 18	22 29.71	+ 1 36.2	1.383	2.357	7.8	19.5
9 28	22 22.28	- 9 33.6	1.753	2.661	11.2	20.4	9 28	22 23.86	- 0 17.4	1.404	2.333	11.9	19.7
10 8	22 17.99	-10 7.9	1.824	2.650	14.7	20.6	10 8	22 20.34	- 2 3.2	1.447	2.308	15.9	19.9
<b>313303</b>	2002 CU <sub>269</sub>		9 1.2 250°53	0°8/30.6 17			<b>513424</b>	2008 UT <sub>53</sub>		9 1.2 274°39	9°2/23.6 18		
7 30	22 55.72	-10 30.6	4.383	5.253	6.3	20.6	7 30	23 9.90	-31 2.6	1.775	2.660	13.1	21.7
8 9	22 52.38	-11 10.8	4.307	5.250	4.5	20.5	8 9	23 3.96	-32 20.9	1.719	2.649	10.9	21.6
8 19	22 48.30	-11 54.3	4.257	5.247	2.6	20.3	8 19	22 55.60	-33 29.2	1.685	2.637	9.3	21.5
8 29	22 43.78	-12 38.7	4.237	5.244	0.9	20.2	8 29	22 45.66	-34 17.9	1.676	2.626	9.4	21.4
9 8	22 39.13	-13 21.6	4.247	5.241	2.0	20.3	9 8	22 35.35	-34 40.1	1.692	2.614	11.1	21.5
9 18	22 34.69	-14 0.7	4.286	5.238	3.9	20.4	9 18	22 25.91	-34 32.5	1.731	2.603	13.5	21.6
9 28	22 30.80	-14 34.0	4.354	5.235	5.7	20.5	9 28	22 18.47	-33 56.3	1.790	2.591	16.1	21.8
10 8	22 27.74	-15 0.1	4.447	5.232	7.3	20.7	10 8	22 13.73	-32 55.5	1.867	2.579	18.4	22.0
<b>397701</b>	2008 CS <sub>187</sub>		9 1.2 265°46	2°5/29.7 16			<b>20959</b>	1936 UG		9 1.2 303°45	3°5/29.2 18		
7 30	23 2.51	- 2 34.8	1.119	2.013	18.4	20.3	7 30	23 4.25	-13 10.6	1.587	2.484	13.8	17.5
8 9	22 59.34	- 5 29.7	1.047	2.003	13.4	20.0	8 9	23 0.13	-14 17.0	1.494	2.450	10.1	17.2
8 19	22 53.30	- 9 2.1	0.998	1.992	7.6	19.6	8 19	22 53.60	-15 33.9	1.422	2.415	6.1	16.9
8 29	22 45.14	-12 56.3	0.974	1.982	2.6	19.3	8 29	22 45.24	-16 53.8	1.376	2.380	3.5	16.6
9 8	22 36.18	-16 49.0	0.977	1.971	6.8	19.5	9 8	22 36.06	-18 7.3	1.356	2.345	6.2	16.7
9 18	22 27.95	-20 16.5	1.006	1.960	12.9	19.8	9 18	22 27.28	-19 5.7	1.361	2.310	10.7	16.9
9 28	22 21.97	-23 2.6	1.058	1.949	18.4	20.1	9 28	22 20.15	-19 43.0	1.388	2.275	15.1	17.0
10 8	22 19.22	-25 1.2	1.128	1.937	22.8	20.4	10 8	22 15.62	-19 56.6	1.435	2.240	19.0	17.2
<b>284229</b>	2006 DJ <sub>63</sub>		9 1.2 94°10	0°0/ 1.1 16			<b>343377</b>	2010 CH <sub>125</sub>		9 1.2 353°98	2°0/30.7 18		
7 30	23 4.53	- 4 8.7	1.857	2.725	13.5	21.1	7 30	23 5.45	-11 18.4	1.498	2.393	14.6	20.1
8 9	22 59.48	- 5 8.5	1.805	2.745	9.8	20.9	8 9	23 0.70	-11 49.1	1.436	2.390	10.6	19.8
8 19	22 52.70	- 6 21.1	1.776	2.764	5.8	20.7	8 19	22 53.68	-12 27.7	1.395	2.388	6.1	19.6
8 29	22 44.88	- 7 40.7	1.774	2.783	1.4	20.5	8 29	22 45.19	-13 7.8	1.379	2.387	2.2	19.3
9 8	22 36.90	- 9 0.3	1.800	2.801	2.9	20.6	9 8	22 36.34	-13 42.6	1.389	2.386	4.6	19.5
9 18	22 29.65	-10 13.0	1.854	2.819	7.0	20.9	9 18	22 28.30	-14 6.5	1.424	2.385	9.1	19.8
9 28	22 23.92	-11 13.5	1.934	2.837	10.6	21.2	9 28	22 22.14	-14 15.5	1.482	2.385	13.3	20.0
10 8	22 20.22	-11 58.5	2.036	2.855	13.6	21.4	10 8	22 18.52	-14 8.4	1.561	2.386	16.8	20.2
<b>73124</b>	2002 GB <sub>60</sub>		9 1.2 37°18	8°4/24.4 18			<b>46386</b>	2001 XP <sub>195</sub>		9 1.2 326°05	0°5/31.9 18		
7 30	23 4.16	-24 35.6	1.418	2.327	14.3	17.8	7 30	23 1.72	- 6 10.8	1.048	1.956	18.3	18.2
8 9	22 59.85	-26 28.9	1.385	2.338	11.1	17.6	8 9	22 58.88	- 6 46.6	0.978	1.938	13.6	17.9
8 19	22 53.15	-28 15.6	1.375	2.349	8.8	17.5	8 19	22 53.08	- 7 42.4	0.927	1.921	8.1	17.5
8 29	22 45.01	-29 44.0	1.389	2.361	8.7	17.6	8 29	22 45.13	- 8 51.7	0.897	1.905	1.9	17.1
9 8	22 36.66	-30 44.9	1.427	2.374	10.7	17.7	9 8	22 36.40	-10 4.0	0.888	1.891	4.6	17.2
9 18	22 29.36	-31 14.2	1.487	2.387	13.6	17.9	9 18	22 28.48	-11 8.1	0.902	1.877	10.8	17.5
9 28	22 24.15	-31 12.1	1.567	2.400	16.5	18.2	9 28	22 22.90	-11 54.6	0.937	1.864	16.5	17.8
10 8	22 21.61	-30 42.6	1.665	2.414	19.0	18.4	10 8	22 20.64	-12 18.3	0.988	1.853	21.3	18.1
<b>159118</b>	2004 VA <sub>25</sub>		9 1.2 333°49	5°1/27.1 18			<b>518273</b>	2016 XZ <sub>5</sub>		9 1.2 276°47	3°4/ 4.3 18		
7 30	23 4.35	-21 30.9	2.059	2.952	11.2	19.5	7 30	23 4.68	+ 2 40.9	2.003	2.841	13.8	21.4
8 9	22 59.43	-22 24.3	1.998	2.947	8.4	19.3	8 9	22 59.83	+ 2 45.9	1.911	2.824	10.9	21.1
8 19	22 52.73	-23 15.9	1.962	2.943	5.9	19.2	8 19	22 53.10	+ 2 35.1	1.841	2.808	7.5	20.9
8 29	22 44.90	-23 59.2	1.951	2.938	5.1	19.1	8 29	22 45.07	+ 2 9.5	1.796	2.791	4.3	20.7
9 8	22 36.82	-24 28.5	1.968	2.934	6.8	19.2	9 8	22 36.55	+ 1 32.3	1.778	2.774	3.8	20.6
9 18	22 29.37	-24 40.4	2.010	2.930	9.5	19.4	9 18	22 28.45	+ 0 48.0	1.787	2.758	6.7	20.8
9 28	22 23.38	-24 33.5	2.076	2.927	12.3	19.6	9 28	22 21.66	+ 0 2.3	1.822	2.741	10.3	21.0
10 8	22 19.41	-24 8.8	2.162	2.924	14.8	19.7	10 8	22 16.88	- 0 39.3	1.881	2.724	13.6	21.1
<b>315843</b>	2008 HE <sub>12</sub>		9 1.2 316°33	4°7/27.0 18			<b>39272</b>	2001 AB <sub>23</sub>		9 1.3 110°60	2°2/29.7 18		
7 30	23 2.62	-19 16.7	2.071	2.966	11.1	20.5	7 30	23 1.78	-11 40.3	2.232	3.116	10.9	19.1
8 9	22 58.18	-20 30.8	2.010	2.962	8.2	20.3	8 9	22 57.40	-12 46.6	2.169	3.119	7.8	18.9
8 19	22 52.02	-21 45.7	1.974	2.958	5.6	20.2	8 19	22 51.50	-13 58.9	2.131	3.123	4.5	18.7
8 29	22 44.73	-22 54.2	1.964	2.954	4.7	20.1	8 29	22 44.64	-15 11.7	2.121	3.126	2.2	18.6
9 8	22 37.17	-23 50.0	1.981	2.951	6.5	20.2	9 8	22 37.55	-16 18.7	2.139	3.130	4.1	18.7
9 18	22 30.17	-24 28.2	2.025	2.947	9.4	20.4	9 18	22 30.98	-17 15.0	2.185	3.133	7.3	18.9
9 28	22 24.55	-24 46.6	2.092	2.944	12.2	20.6	9 28	22 25.63	-17 56.9	2.257	3.137	10.3	19.1
10 8	22 20.89	-24 45.4	2.180	2.940	14.7	20.8	10 8	22 22.00	-18 22.8	2.351	3.140	13.0	19.3
<b>476755</b>	2008 UA <sub>71</sub>		9 1.2 96°74	3°5/29.5 18			<b>244357</b>	2002 NF <sub>7</sub>		9 1.3 359°05			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>194855</b>	2002 <i>AE</i> <sub>28</sub>		9 1.3 196°60	0°7/ 1.9	18		<b>6662</b>	1993 <i>BP</i> <sub>13</sub>		9 1.3 204°65	6°5/ 7.6	18	R
7 30	23 7.12	- 4 29.3	1.906	2.769	13.4	20.2	7 30	23 5.96	+11 51.8	2.075	2.860	15.2	16.9
8 9	23 1.53	- 4 45.2	1.832	2.767	10.0	20.0	8 9	23 0.68	+12 16.8	1.991	2.857	12.7	16.7
8 19	22 54.04	- 5 12.6	1.781	2.765	6.0	19.7	8 19	22 53.57	+12 21.1	1.927	2.854	10.0	16.5
8 29	22 45.29	- 5 48.1	1.756	2.763	1.9	19.5	8 29	22 45.21	+12 3.8	1.887	2.850	7.5	16.4
9 8	22 36.20	- 6 26.7	1.759	2.761	2.8	19.5	9 8	22 36.43	+11 26.5	1.873	2.846	6.5	16.3
9 18	22 27.72	- 7 3.5	1.789	2.758	6.9	19.8	9 18	22 28.13	+10 33.4	1.886	2.842	7.7	16.4
9 28	22 20.74	- 7 33.7	1.846	2.754	10.8	20.0	9 28	22 21.19	+ 9 30.8	1.925	2.837	10.2	16.5
10 8	22 15.90	- 7 54.0	1.925	2.751	14.1	20.2	10 8	22 16.25	+ 8 25.7	1.988	2.832	12.9	16.7
<b>514854</b>	2008 <i>EV</i> <sub>164</sub>		9 1.3 211°26	0°4/31.8	18		<b>265437</b>	2004 <i>VC</i> <sub>112</sub>		9 1.3 274°85	0°8/ 2.3	18	
7 30	23 3.53	- 7 20.9	2.146	3.018	11.7	21.7	7 30	23 0.93	- 1 30.9	2.512	3.362	11.0	21.0
8 9	22 58.73	- 7 53.1	2.075	3.018	8.6	21.5	8 9	22 56.80	- 2 23.8	2.410	3.338	8.2	20.8
8 19	22 52.31	- 8 34.1	2.027	3.016	5.0	21.3	8 19	22 51.21	- 3 30.5	2.333	3.314	5.1	20.6
8 29	22 44.85	- 9 19.8	2.007	3.015	1.2	21.0	8 29	22 44.62	- 4 47.7	2.283	3.289	1.8	20.3
9 8	22 37.12	-10 5.1	2.014	3.014	2.8	21.1	9 8	22 37.63	- 6 10.4	2.262	3.264	2.2	20.3
9 18	22 29.92	-10 45.4	2.050	3.013	6.6	21.4	9 18	22 30.91	- 7 32.9	2.271	3.239	5.7	20.5
9 28	22 24.00	-11 16.7	2.111	3.012	10.0	21.6	9 28	22 25.18	- 8 49.5	2.308	3.213	9.0	20.7
10 8	22 19.90	-11 36.4	2.195	3.010	12.9	21.8	10 8	22 20.97	- 9 55.7	2.369	3.187	12.0	20.8
<b>428265</b>	2007 <i>CG</i> <sub>66</sub>		9 1.3 107°34	0°1/ 1.4	17		<b>446350</b>	2014 <i>HJ</i> <sub>10</sub>		9 1.3 29°27	1°7/30.7	18	
7 30	23 4.90	- 3 54.3	1.665	2.537	14.5	21.5	7 30	23 3.70	-10 11.8	1.825	2.711	12.8	21.3
8 9	23 0.03	- 4 49.4	1.606	2.547	10.7	21.3	8 9	22 59.07	-10 56.5	1.763	2.714	9.2	21.1
8 19	22 53.17	- 5 59.3	1.570	2.558	6.3	21.1	8 19	22 52.60	-11 49.0	1.724	2.716	5.3	20.9
8 29	22 45.07	- 7 18.3	1.559	2.567	1.6	20.8	8 29	22 44.95	-12 43.7	1.712	2.719	1.8	20.7
9 8	22 36.72	- 8 38.5	1.576	2.577	3.1	21.0	9 8	22 37.04	-13 34.3	1.726	2.722	4.0	20.8
9 18	22 29.11	- 9 52.3	1.619	2.587	7.6	21.3	9 18	22 29.79	-14 15.3	1.767	2.726	7.9	21.1
9 28	22 23.18	-10 53.3	1.688	2.596	11.6	21.5	9 28	22 24.06	-14 42.7	1.833	2.729	11.5	21.3
10 8	22 19.50	-11 37.9	1.779	2.605	15.0	21.8	10 8	22 20.42	-14 54.7	1.920	2.733	14.6	21.5
<b>481721</b>	2008 <i>ER</i> <sub>154</sub>		9 1.3 241°40	3°6/ 5.3	18		<b>64890</b>	2001 <i>YE</i> <sub>76</sub>		9 1.3 132°81	2°9/29.2	18	
7 30	23 2.14	+ 5 30.9	2.253	3.075	13.0	21.5	7 30	23 4.63	-15 9.8	2.210	3.095	10.9	19.9
8 9	22 57.72	+ 5 17.4	2.167	3.069	10.3	21.3	8 9	22 59.47	-15 57.3	2.150	3.099	7.9	19.7
8 19	22 51.74	+ 4 46.9	2.104	3.063	7.3	21.1	8 19	22 52.72	-16 47.4	2.114	3.103	4.8	19.5
8 29	22 44.72	+ 4 0.8	2.066	3.056	4.5	20.9	8 29	22 44.97	-17 34.9	2.106	3.108	2.9	19.4
9 8	22 37.38	+ 3 2.7	2.056	3.050	3.7	20.8	9 8	22 37.02	-18 14.4	2.126	3.112	4.6	19.5
9 18	22 30.45	+ 1 57.5	2.074	3.043	6.0	21.0	9 18	22 29.66	-18 42.2	2.174	3.116	7.7	19.7
9 28	22 24.69	+ 0 51.1	2.118	3.037	9.1	21.1	9 28	22 23.63	-18 55.7	2.247	3.120	10.7	19.9
10 8	22 20.65	- 0 10.8	2.187	3.030	12.0	21.3	10 8	22 19.43	-18 54.5	2.341	3.123	13.2	20.1
<b>382099</b>	2011 <i>GA</i> <sub>63</sub>		9 1.3 105°58	2°5/30.2	17		<b>520542</b>	2014 <i>MX</i> <sub>75</sub>		9 1.3 42°12	6°2/ 6.6	18	
7 30	23 9.69	-13 22.8	1.798	2.680	13.1	20.8	7 30	23 7.05	+ 8 36.2	1.913	2.720	15.5	20.5
8 9	23 3.31	-13 56.4	1.748	2.696	9.5	20.6	8 9	23 1.41	+ 9 26.1	1.851	2.735	12.7	20.4
8 19	22 54.98	-14 33.8	1.721	2.711	5.5	20.4	8 19	22 53.93	+ 9 57.0	1.810	2.749	9.7	20.2
8 29	22 45.51	-15 9.4	1.721	2.726	2.5	20.2	8 29	22 45.28	+10 8.2	1.793	2.764	7.1	20.1
9 8	22 35.90	-15 37.4	1.748	2.740	4.6	20.4	9 8	22 36.39	+10 1.0	1.802	2.779	6.2	20.1
9 18	22 27.17	-15 53.8	1.803	2.755	8.3	20.7	9 18	22 28.16	+ 9 39.3	1.837	2.795	7.7	20.2
9 28	22 20.20	-15 56.5	1.882	2.768	11.8	20.9	9 28	22 21.47	+ 9 8.3	1.898	2.811	10.3	20.4
10 8	22 15.54	-15 45.1	1.984	2.782	14.7	21.1	10 8	22 16.89	+ 8 34.4	1.981	2.827	12.9	20.6
<b>77044</b>	2001 <i>CE</i> <sub>42</sub>		9 1.3 285°48	4°6/ 6.0	18		<b>57501</b>	2001 <i>SE</i> <sub>250</sub>		9 1.3 212°81	1°0/31.4	18	
7 30	23 1.42	+ 8 6.3	1.770	2.595	15.9	19.4	7 30	23 5.47	- 7 43.7	1.712	2.593	13.8	19.6
8 9	22 57.61	+ 7 36.4	1.683	2.584	12.8	19.1	8 9	23 0.54	- 8 31.8	1.643	2.590	10.1	19.4
8 19	22 51.87	+ 6 41.3	1.617	2.574	9.3	18.9	8 19	22 53.56	- 9 31.4	1.597	2.588	5.8	19.1
8 29	22 44.79	+ 5 22.5	1.575	2.563	5.9	18.7	8 29	22 45.22	-10 36.6	1.576	2.585	1.5	18.8
9 8	22 37.25	+ 3 45.3	1.558	2.552	4.7	18.6	9 8	22 36.50	-11 40.2	1.583	2.582	3.7	19.0
9 18	22 30.20	+ 1 57.6	1.569	2.542	7.2	18.7	9 18	22 28.45	-12 35.4	1.616	2.579	8.1	19.3
9 28	22 24.59	+ 0 9.2	1.606	2.532	10.9	18.9	9 28	22 22.03	-13 17.0	1.674	2.575	12.1	19.5
10 8	22 21.13	- 1 31.0	1.666	2.521	14.5	19.1	10 8	22 17.90	-13 42.1	1.754	2.572	15.5	19.7
<b>90784</b>	1994 <i>HZ</i>		9 1.3 262°83	1°6/ 2.8	18		<b>168756</b>	2000 <i>QJ</i> <sub>199</sub>		9 1.3 315°44	2°2/30.9	18	
7 30	23 4.20	- 1 1.0	1.829	2.688	14.0	20.0	7 30	23 8.08	-11 43.3	1.161	2.065	17.2	19.6
8 9	22 59.60	- 1 29.3	1.743	2.674	10.7	19.7	8 9	23 3.43	-11 58.6	1.089	2.048	12.7	19.3
8 19	22 53.03	- 2 14.1	1.680	2.660	6.8	19.5	8 19	22 55.72	-12 22.7	1.038	2.032	7.5	19.0
8 29	22 45.08	- 3 12.1	1.641	2.646	2.7	19.2	8 29	22 45.83	-12 48.9	1.008	2.016	2.6	18.6
9 8	22 36.65	- 4 17.7	1.630	2.632	2.9	19.2	9 8	22 35.19	-13 9.2	1.002	2.001	5.4	18.8
9 18	22 28.70	- 5 24.3	1.646	2.618	7.1	19.4	9 18	22 25.42	-13 17.0	1.019	1.986	11.0	19.0
9 28	22 22.21	- 6 25.1	1.688	2.603	11.2	19.6	9 28	22 18.05	-13 8.0	1.058	1.972	16.3	19.3
10 8	22 17.86	- 7 14.8	1.752	2.588	14.8	19.8	10 8	22 14.03	-12 41.1	1.114	1.959	20.8	19.5
<b>509916</b>	2009 <i>FM</i> <sub>75</sub>		9 1.3 151°71	3°3/28.4	18		<b>66917</b>	1999 <i>VP</i> <sub>176</sub>		9 1.3 328°62	9°9/ 9.4	18	
7 30	23 6.10	-17 59.3	2.605	3.485	9.7	22.4	7 30	23 3.91	+15 42.9	1.589	2.376	19.0	18.2
8 9	23 0.31	-18 49.4	2.549	3.494	7.0	22.3	8 9	22 59.75	+16 40.6	1.509	2.367	16.4	17.9
8 19	22 53.10	-19 39.6	2.518	3.503	4.5	22.1	8 19	22 53.30	+17 11.5	1.447	2.358	13.7	17.8
8 29	22 45.04	-20 25.1	2.516	3.511	3.3	22.1	8 29	22 45.20	+17 11.6	1.404	2.350	11.2	17.6
9 8	22 36.83	-21 1.4	2.543	3.519	4.8	22.2	9 8	22 36.48	+16 41.0	1.384	2.342	9.9	17.5
9 18	22 29.16	-21 25.4	2.598	3.526	7.3	22.3	9 18	22 28.32	+15 43.6	1.388	2.335	10.7	17.5
9 28	22 22.69	-21 35.5	2.679	3.532	9.8	22.5	9 28	22 21.85	+14 27.6	1.414	2.329	12.9	17.6
10 8	22 17.87	-21 31.7	2.783	3.538	12.0	22.7	10 8	22 17.91	+13 3.4	1.462	2.323	15.8	17.8
<b>57085</b>	2001 <i>OY</i> <sub>37</sub>		9 1.3 217°23	4°4/ 2.9	18		<b>434700</b>	2006 <i>BR</i> <sub>258</sub>		9 1.3 144°85</			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>515980</b>	2015 <i>RE</i> <sub>186</sub>		9 1.3 42°33	2.1/ 3.6	18		<b>357206</b>	2002 <i>GW</i> <sub>68</sub>		9 1.3 83°25	4.8/27.7	18	
7 30	23 0.89	+ 1 18.0	2.095	2.943	12.9	21.3	7 30	23 7.66	-22 18.8	2.200	3.086	10.9	20.4
8 9	22 56.83	+ 0 44.5	2.025	2.948	9.9	21.1	8 9	23 1.66	-22 57.6	2.151	3.095	8.2	20.3
8 19	22 51.22	- 0 4.6	1.978	2.953	6.4	20.9	8 19	22 53.98	-23 32.9	2.126	3.105	5.7	20.2
8 29	22 44.62	- 1 6.2	1.956	2.958	3.1	20.7	8 29	22 45.34	-23 59.2	2.129	3.115	4.8	20.1
9 8	22 37.78	- 2 15.2	1.963	2.964	2.7	20.7	9 8	22 36.58	-24 12.0	2.158	3.125	6.3	20.2
9 18	22 31.46	- 3 25.7	1.996	2.969	5.9	20.9	9 18	22 28.55	-24 8.9	2.215	3.134	8.8	20.4
9 28	22 26.38	- 4 31.6	2.057	2.975	9.3	21.2	9 28	22 22.01	-23 49.6	2.296	3.144	11.4	20.6
10 8	22 23.06	- 5 28.2	2.141	2.980	12.3	21.4	10 8	22 17.46	-23 15.4	2.399	3.154	13.7	20.8
<b>80399</b>	1999 <i>XC</i> <sub>176</sub>		9 1.3 191°77	4.7/28.2	18		<b>16519</b>	1990 <i>WV</i>		9 1.3 322°15	4.4/28.9	18	
7 30	23 9.18	-18 15.5	1.776	2.666	12.9	20.0	7 30	23 2.78	-13 6.7	1.124	2.039	16.7	18.2
8 9	23 3.22	-19 17.9	1.715	2.665	9.5	19.8	8 9	22 59.57	-14 22.5	1.059	2.023	12.2	17.9
8 19	22 55.11	-20 21.5	1.678	2.664	6.2	19.6	8 19	22 53.48	-15 50.5	1.013	2.008	7.4	17.6
8 29	22 45.62	-21 18.5	1.667	2.662	4.7	19.5	8 29	22 45.33	-17 19.9	0.989	1.994	4.4	17.4
9 8	22 35.80	-22 1.7	1.683	2.659	6.7	19.7	9 8	22 36.48	-18 37.9	0.989	1.980	7.5	17.5
9 18	22 26.75	-22 26.3	1.725	2.657	10.1	19.9	9 18	22 28.48	-19 34.0	1.011	1.967	12.6	17.7
9 28	22 19.46	-22 30.3	1.791	2.653	13.4	20.1	9 28	22 22.77	-20 1.9	1.053	1.955	17.5	18.0
10 8	22 14.61	-22 14.6	1.877	2.649	16.3	20.3	10 8	22 20.27	-20 0.9	1.111	1.943	21.7	18.2
<b>348123</b>	2004 <i>BO</i>		9 1.3 340°86	6.7/26.2	18		<b>379882</b>	2012 <i>HX</i> <sub>60</sub>		9 1.3 40°51	2.7/ 3.4	17	
7 30	23 1.67	-20 6.8	1.404	2.317	14.2	19.9	7 30	23 3.84	+ 0 52.0	1.226	2.102	18.4	20.8
8 9	22 58.25	-21 38.5	1.346	2.306	10.6	19.6	8 9	22 59.77	+ 0 26.0	1.176	2.114	14.0	20.6
8 19	22 52.42	-23 11.8	1.311	2.296	7.6	19.4	8 19	22 53.25	- 0 23.3	1.145	2.126	9.0	20.3
8 29	22 44.98	-24 35.7	1.299	2.287	6.8	19.4	8 29	22 45.20	- 1 31.1	1.136	2.140	4.1	20.1
9 8	22 37.09	-25 39.9	1.311	2.279	9.2	19.5	9 8	22 36.88	- 2 48.8	1.151	2.154	3.7	20.1
9 18	22 29.99	-26 17.6	1.346	2.272	12.8	19.7	9 18	22 29.56	- 4 6.6	1.191	2.168	8.4	20.4
9 28	22 24.84	-26 26.2	1.401	2.266	16.3	19.9	9 28	22 24.35	- 5 15.3	1.254	2.183	13.0	20.8
10 8	22 22.37	-26 7.2	1.475	2.261	19.4	20.1	10 8	22 21.88	- 6 8.5	1.337	2.199	17.0	21.0
<b>187628</b>	2007 <i>BX</i> <sub>36</sub>		9 1.3 311°05	4.0/28.9	17		<b>54852</b>	<i>Mercatali</i>		9 1.3 67°07	1.7/ 2.5	18	
7 30	23 4.14	-13 29.8	1.410	2.313	14.8	20.0	7 30	23 7.18	- 1 50.0	1.183	2.065	18.5	19.6
8 9	23 0.01	-14 47.8	1.347	2.305	10.7	19.7	8 9	23 2.35	- 2 15.8	1.130	2.074	13.9	19.3
8 19	22 53.45	-16 14.7	1.305	2.298	6.5	19.5	8 19	22 54.84	- 3 2.6	1.096	2.082	8.6	19.1
8 29	22 45.25	-17 41.0	1.287	2.290	4.0	19.3	8 29	22 45.61	- 4 5.0	1.085	2.091	3.1	18.8
9 8	22 36.56	-18 56.4	1.295	2.283	6.6	19.5	9 8	22 36.04	- 5 14.2	1.097	2.100	3.7	18.9
9 18	22 28.64	-19 52.6	1.327	2.276	11.0	19.7	9 18	22 27.53	- 6 20.6	1.134	2.109	9.0	19.2
9 28	22 22.66	-20 25.0	1.382	2.269	15.1	19.9	9 28	22 21.31	- 7 15.9	1.194	2.119	14.0	19.5
10 8	22 19.38	-20 32.5	1.455	2.263	18.7	20.1	10 8	22 18.10	- 7 54.7	1.273	2.128	18.1	19.8
<b>115573</b>	2003 <i>UE</i> <sub>86</sub>		9 1.3 320°82	1.4/31.2	18		<b>213457</b>	2002 <i>CF</i> <sub>152</sub>		9 1.3 164°84	1.5/31.1	17	
7 30	23 6.70	-10 34.5	1.711	2.596	13.6	19.4	7 30	23 9.93	- 9 47.1	1.609	2.490	14.5	21.2
8 9	23 1.45	-10 56.0	1.643	2.592	9.9	19.2	8 9	23 3.88	-10 25.4	1.547	2.494	10.5	21.0
8 19	22 54.10	-11 24.7	1.597	2.588	5.7	18.9	8 19	22 55.56	-11 12.6	1.507	2.498	6.1	20.8
8 29	22 45.39	-11 55.5	1.576	2.584	1.7	18.7	8 29	22 45.80	-12 2.6	1.493	2.501	1.9	20.5
9 8	22 36.33	-12 22.9	1.583	2.581	3.9	18.8	9 8	22 35.70	-12 48.4	1.506	2.503	4.2	20.7
9 18	22 27.97	-12 42.0	1.615	2.577	8.2	19.1	9 18	22 26.44	-13 24.0	1.545	2.505	8.7	20.9
9 28	22 21.29	-12 49.3	1.673	2.574	12.1	19.3	9 28	22 19.05	-13 45.4	1.610	2.507	12.8	21.2
10 8	22 16.95	-12 43.3	1.751	2.571	15.5	19.5	10 8	22 14.22	-13 51.0	1.695	2.508	16.2	21.4
<b>363014</b>	1993 <i>VM</i> <sub>6</sub>		9 1.3 275°33	10.1/15.5	18		<b>52350</b>	1993 <i>FH</i> <sub>16</sub>		9 1.3 193°20	1.5/30.9	18	
7 30	23 1.69	+28 7.1	2.516	3.170	15.8	20.9	7 30	23 7.16	- 9 22.1	1.798	2.677	13.3	20.0
8 9	22 57.52	+28 38.9	2.418	3.158	14.4	20.7	8 9	23 1.73	-10 13.1	1.729	2.676	9.7	19.8
8 19	22 51.73	+28 45.6	2.337	3.146	12.9	20.6	8 19	22 54.27	-11 13.6	1.683	2.674	5.6	19.5
8 29	22 44.81	+28 24.2	2.275	3.134	11.4	20.5	8 29	22 45.48	-12 17.5	1.664	2.672	1.8	19.3
9 8	22 37.47	+27 34.1	2.235	3.122	10.4	20.4	9 8	22 36.33	-13 17.8	1.672	2.669	4.0	19.4
9 18	22 30.48	+26 17.7	2.219	3.110	10.2	20.3	9 18	22 27.84	-14 8.3	1.708	2.666	8.2	19.7
9 28	22 24.63	+24 40.1	2.227	3.097	10.9	20.4	9 28	22 20.95	-14 44.3	1.769	2.662	12.0	19.9
10 8	22 20.53	+22 49.4	2.259	3.085	12.2	20.4	10 8	22 16.33	-15 3.9	1.851	2.658	15.3	20.1
<b>219283</b>	2000 <i>CD</i> <sub>92</sub>		9 1.3 199°05	0.6/31.8	18		<b>283648</b>	2002 <i>JV</i> <sub>87</sub>		9 1.3 32°28	9.4/10.6	16	
7 30	23 10.97	- 8 53.0	1.967	2.834	12.9	20.6	7 30	23 1.42	+16 27.6	1.375	2.174	20.9	19.7
8 9	23 4.35	- 9 7.1	1.891	2.830	9.4	20.4	8 9	22 57.90	+16 49.0	1.322	2.189	17.8	19.5
8 19	22 55.73	- 9 28.5	1.839	2.827	5.5	20.1	8 19	22 52.13	+16 36.1	1.285	2.206	14.4	19.4
8 29	22 45.80	- 9 53.3	1.814	2.822	1.4	19.8	8 29	22 44.94	+15 47.7	1.268	2.223	11.2	19.2
9 8	22 35.51	-10 16.6	1.817	2.817	3.2	20.0	9 8	22 37.47	+14 28.0	1.273	2.241	9.5	19.2
9 18	22 25.86	-10 34.4	1.850	2.811	7.3	20.2	9 18	22 30.88	+12 45.5	1.301	2.260	10.0	19.3
9 28	22 17.79	-10 43.4	1.908	2.805	11.1	20.4	9 28	22 26.18	+10 52.1	1.352	2.279	12.4	19.5
10 8	22 11.93	-10 41.6	1.989	2.797	14.3	20.6	10 8	22 24.01	+ 9 0.0	1.425	2.300	15.3	19.7
<b>153535</b>	2001 <i>SZ</i> <sub>66</sub>		9 1.3 351°36	0.9/ 2.0	18		<b>104438</b>	2000 <i>FH</i> <sub>73</sub>		9 1.3 4°03	1.5/ 2.8	18	
7 30	22 53.78	- 1 27.3	0.978	1.888	19.1	18.7	7 30	23 2.62	- 1 5.5	1.781	2.644	14.2	19.6
8 9	22 52.99	- 2 24.9	0.916	1.876	14.4	18.4	8 9	22 58.39	- 1 37.3	1.710	2.644	10.7	19.4
8 19	22 49.57	- 3 52.0	0.873	1.865	8.8	18.1	8 19	22 52.30	- 2 25.3	1.662	2.644	6.7	19.1
8 29	22 44.33	- 5 41.4	0.849	1.857	2.7	17.7	8 29	22 44.99	- 3 25.7	1.639	2.644	2.6	18.9
9 8	22 38.52	- 7 40.0	0.847	1.851	3.9	17.7	9 8	22 37.35	- 4 32.4	1.642	2.644	2.8	18.9
9 18	22 33.55	- 9 32.8	0.867	1.847	10.1	18.1	9 18	22 30.31	- 5 38.7	1.673	2.645	6.9	19.1
9 28	22 30.75	-11 6.2	0.907	1.845	15.7	18.4	9 28	22 24.75	- 6 38.1	1.728	2.646	10.8	19.4
10 8	22 30.94	-12 11.9	0.965	1.846	20.4	18.7	10 8	22 21.28	- 7 25.7	1.807	2.647	14.2	19.6
<b>233994</b>	1996 <i>RT</i> <sub>6</sub>		9 1.3 76°57	0.8/31.7	16		<b>251972</b>	2000 <i>AW</i> <sub>157</sub>		9 1.3 270°51	1.8/ 2.6		



EPHEMERIDES

9 1.3

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>437700</b>	2014 <i>DG</i> <sub>37</sub>		9 1.3 352°62	1.7°/30.6	18		<b>514266</b>	2015 <i>RA</i> <sub>57</sub>		9 1.3 43°56	2°1/3.6	18	
7 30	22 59.80	- 7 0.9	1.428	2.325	15.0	19.8	7 30	23 1.16	+ 1 23.9	2.045	2.893	13.2	21.0
8 9	22 56.74	- 8 28.0	1.365	2.320	10.9	19.6	8 9	22 57.11	+ 0 47.8	1.974	2.897	10.1	20.8
8 19	22 51.50	-10 11.6	1.323	2.317	6.2	19.3	8 19	22 51.46	- 0 4.6	1.926	2.901	6.6	20.6
8 29	22 44.81	-12 3.0	1.306	2.314	1.9	19.0	8 29	22 44.80	- 1 10.0	1.904	2.906	3.1	20.4
9 8	22 37.71	-13 51.1	1.315	2.312	4.7	19.2	9 8	22 37.87	- 2 22.9	1.909	2.911	2.7	20.4
9 18	22 31.32	-15 25.7	1.349	2.311	9.4	19.5	9 18	22 31.47	- 3 37.1	1.943	2.915	6.1	20.6
9 28	22 26.66	-16 39.0	1.407	2.311	13.8	19.8	9 28	22 26.34	- 4 46.5	2.002	2.920	9.5	20.9
10 8	22 24.44	-17 27.5	1.484	2.311	17.4	20.0	10 8	22 23.02	- 5 45.9	2.086	2.926	12.6	21.1
<b>506893</b>	2008 <i>BD</i> <sub>36</sub>		9 1.3 198°50	0°0/1.2	17		<b>510957</b>	2013 <i>GD</i> <sub>21</sub>		9 1.3 132°06	3°1/27.6	18	
7 30	23 7.23	- 5 30.3	1.745	2.615	14.0	22.1	7 30	23 2.40	-15 39.9	2.788	3.668	9.1	21.8
8 9	23 1.84	- 6 10.6	1.672	2.613	10.4	21.9	8 9	22 57.65	-17 13.7	2.734	3.681	6.5	21.6
8 19	22 54.37	- 7 4.1	1.622	2.610	6.1	21.6	8 19	22 51.63	-18 49.9	2.707	3.694	4.1	21.5
8 29	22 45.53	- 8 5.5	1.599	2.607	1.5	21.3	8 29	22 44.82	-20 22.7	2.711	3.706	3.1	21.4
9 8	22 36.28	- 9 8.2	1.602	2.603	3.2	21.4	9 8	22 37.83	-21 46.5	2.744	3.718	4.7	21.5
9 18	22 27.68	-10 5.4	1.633	2.599	7.7	21.7	9 18	22 31.26	-22 56.8	2.807	3.729	7.1	21.7
9 28	22 20.71	-10 51.6	1.690	2.594	11.8	21.9	9 28	22 25.70	-23 51.0	2.896	3.740	9.4	21.9
10 8	22 16.04	-11 23.0	1.768	2.589	15.3	22.1	10 8	22 21.60	-24 28.2	3.008	3.750	11.4	22.1
<b>21281</b>	1996 <i>TX</i> <sub>14</sub>		9 1.3 287°92	2°1/30.9	18		<b>83054</b>	2001 <i>QC</i> <sub>202</sub>		9 1.3 49°95	1°1/31.2	18	
7 30	23 9.64	-11 34.2	1.392	2.284	15.6	18.6	7 30	23 3.34	- 8 3.5	1.842	2.723	12.9	19.5
8 9	23 4.24	-11 54.8	1.314	2.267	11.5	18.3	8 9	22 58.86	- 8 54.7	1.778	2.726	9.4	19.2
8 19	22 56.10	-12 23.6	1.257	2.249	6.8	18.0	8 19	22 52.55	- 9 56.0	1.737	2.728	5.4	19.0
8 29	22 46.02	-12 54.4	1.224	2.232	2.3	17.6	8 29	22 45.09	-11 1.7	1.723	2.731	1.5	18.8
9 8	22 35.23	-13 19.9	1.217	2.215	4.9	17.8	9 8	22 37.34	-12 5.1	1.735	2.734	3.5	18.9
9 18	22 25.18	-13 34.2	1.235	2.197	10.0	18.0	9 18	22 30.21	-13 0.2	1.775	2.737	7.6	19.2
9 28	22 17.21	-13 33.1	1.275	2.180	14.8	18.2	9 28	22 24.57	-13 42.1	1.840	2.740	11.3	19.4
10 8	22 12.21	-13 15.3	1.335	2.163	19.0	18.5	10 8	22 20.98	-14 8.2	1.927	2.743	14.4	19.6
<b>471297</b>	2011 <i>GM</i> <sub>85</sub>		9 1.3 67°17	2°0/30.8	16		<b>223867</b>	2004 <i>TQ</i> <sub>322</sub>		9 1.3 45°16	3°7/5.5	18	
7 30	23 8.13	-11 32.8	1.556	2.445	14.4	21.1	7 30	23 1.63	+ 5 38.0	2.164	2.988	13.4	20.0
8 9	23 2.52	-12 4.0	1.504	2.455	10.5	20.9	8 9	22 57.38	+ 5 28.6	2.091	2.994	10.6	19.9
8 19	22 54.72	-12 41.8	1.474	2.466	6.0	20.7	8 19	22 51.60	+ 5 1.9	2.041	2.999	7.5	19.7
8 29	22 45.59	-13 20.0	1.469	2.476	2.2	20.5	8 29	22 44.84	+ 4 19.5	2.016	3.005	4.7	19.5
9 8	22 36.26	-13 52.2	1.491	2.487	4.5	20.6	9 8	22 37.83	+ 3 25.4	2.018	3.011	3.9	19.5
9 18	22 27.85	-14 13.4	1.538	2.498	8.7	20.9	9 18	22 31.32	+ 2 24.3	2.047	3.017	6.0	19.6
9 28	22 21.34	-14 20.4	1.610	2.509	12.7	21.2	9 28	22 26.03	+ 1 22.3	2.103	3.024	9.0	19.8
10 8	22 17.34	-14 12.4	1.702	2.519	16.0	21.4	10 8	22 22.48	+ 0 24.8	2.183	3.030	11.8	20.0
<b>397094</b>	2005 <i>UP</i> <sub>407</sub>		9 1.3 63°97	2°9/29.5	18		<b>329117</b>	2011 <i>CG</i> <sub>27</sub>		9 1.3 269°49	0°4/31.8	18	
7 30	23 4.74	-14 25.0	1.972	2.860	11.9	21.1	7 30	23 0.64	- 5 40.4	2.502	3.368	10.5	20.8
8 9	22 59.70	-15 11.5	1.919	2.871	8.6	20.9	8 9	22 56.60	- 6 39.4	2.413	3.352	7.7	20.6
8 19	22 52.94	-16 1.4	1.891	2.881	5.1	20.7	8 19	22 51.15	- 7 49.1	2.348	3.336	4.5	20.4
8 29	22 45.14	-16 48.7	1.889	2.892	2.9	20.6	8 29	22 44.74	- 9 5.3	2.312	3.320	1.1	20.1
9 8	22 37.16	-17 27.8	1.914	2.903	4.7	20.7	9 8	22 38.00	-10 22.7	2.304	3.304	2.6	20.2
9 18	22 29.89	-17 54.6	1.967	2.913	8.1	21.0	9 18	22 31.59	-11 35.8	2.326	3.288	6.0	20.4
9 28	22 24.08	-18 6.5	2.044	2.924	11.2	21.2	9 28	22 26.18	-12 39.8	2.375	3.271	9.2	20.6
10 8	22 20.28	-18 3.2	2.142	2.935	13.9	21.4	10 8	22 22.30	-13 31.1	2.447	3.255	12.0	20.7
<b>280639</b>	2005 <i>AH</i>		9 1.3 331°37	4°0/29.2	18		<b>318252</b>	2004 <i>RZ</i> <sub>322</sub>		9 1.3 278°75	0°1/1.2	18	
7 30	23 0.77	-13 15.4	1.244	2.158	15.6	19.6	7 30	23 6.00	- 7 51.3	2.235	3.102	11.5	20.8
8 9	22 57.91	-14 19.7	1.173	2.136	11.4	19.3	8 9	23 0.55	- 7 56.5	2.157	3.097	8.5	20.6
8 19	22 52.44	-15 34.7	1.121	2.116	6.9	19.0	8 19	22 53.47	- 8 8.6	2.104	3.091	5.0	20.4
8 29	22 45.11	-16 51.3	1.093	2.097	4.0	18.8	8 29	22 45.32	- 8 24.6	2.078	3.086	1.2	20.1
9 8	22 37.11	-17 58.5	1.088	2.079	6.8	18.9	9 8	22 36.87	- 8 40.8	2.080	3.081	2.6	20.2
9 18	22 29.82	-18 47.1	1.105	2.062	11.7	19.1	9 18	22 28.94	- 8 53.8	2.111	3.076	6.3	20.4
9 28	22 24.57	-19 11.1	1.144	2.047	16.4	19.3	9 28	22 22.28	- 9 0.7	2.168	3.071	9.7	20.7
10 8	22 22.22	-19 9.0	1.200	2.032	20.4	19.5	10 8	22 17.46	- 8 59.4	2.249	3.066	12.6	20.8
<b>103202</b>	1999 <i>XW</i> <sub>250</sub>		9 1.3 84°00	0°8/2.1	18		<b>218774</b>	2005 <i>WQ</i> <sub>158</sub>		9 1.3 52°14	7°8/9.5	18	
7 30	23 5.99	- 3 52.4	1.843	2.708	13.7	20.3	7 30	23 4.72	+15 41.5	2.150	2.910	15.5	19.7
8 9	23 0.66	- 4 14.1	1.787	2.723	10.1	20.1	8 9	22 59.73	+16 25.5	2.077	2.918	13.2	19.6
8 19	22 53.52	- 4 47.9	1.753	2.737	6.1	19.9	8 19	22 53.03	+16 48.0	2.025	2.926	10.9	19.4
8 29	22 45.29	- 5 29.8	1.745	2.752	2.0	19.6	8 29	22 45.21	+16 47.2	1.995	2.934	8.8	19.3
9 8	22 36.87	- 6 14.6	1.764	2.766	2.7	19.7	9 8	22 37.07	+16 24.3	1.990	2.942	7.8	19.3
9 18	22 29.19	- 6 57.0	1.811	2.781	6.7	20.0	9 18	22 29.46	+15 42.6	2.010	2.951	8.3	19.3
9 28	22 23.05	- 7 32.0	1.884	2.795	10.4	20.3	9 28	22 23.16	+14 47.8	2.056	2.959	10.1	19.5
10 8	22 19.01	- 7 56.6	1.979	2.809	13.6	20.5	10 8	22 18.78	+13 46.9	2.125	2.968	12.3	19.6
<b>380217</b>	2001 <i>QP</i> <sub>195</sub>		9 1.3 357°23	9°2/5.9	18		<b>93766</b>	2000 <i>WL</i> <sub>21</sub>		9 1.3 192°22	10°2/19.8	18	
7 30	23 8.83	+ 7 19.1	1.194	2.040	20.7	19.6	7 30	23 9.19	-35 58.7	2.004	2.876	12.4	19.3
8 9	23 3.87	+ 9 1.7	1.129	2.035	17.2	19.3	8 9	23 3.41	-37 55.0	1.966	2.875	10.9	19.2
8 19	22 55.98	+10 22.0	1.082	2.032	13.4	19.1	8 19	22 55.35	-39 37.8	1.952	2.873	10.2	19.2
8 29	22 46.00	+11 15.1	1.055	2.030	10.3	18.9	8 29	22 45.81	-40 57.5	1.963	2.871	10.7	19.2
9 8	22 35.33	+11 39.3	1.051	2.030	9.3	18.9	9 8	22 35.91	-41 47.4	1.998	2.869	12.1	19.3
9 18	22 25.52	+11 37.5	1.069	2.030	11.4	19.0	9 18	22 26.83	-42 5.2	2.054	2.867	14.0	19.4
9 28	22 18.03	+11 17.1	1.108	2.032	14.8	19.2	9 28	22 19.62	-41 52.2	2.130	2.864	15.9	19.6
10 8	22 13.79	+10 47.7	1.166	2.035	18.4	19.4	10 8	22 14.96	-41 12.7	2.221	2.860	17.5	19.7
<b>481306</b>	2005 <i>YX</i> <sub>227</sub>		9 1.3 17										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>77711</b>	2001 <i>OU</i> <sub>43</sub>		9 1.3 57°04	0°7/31.9	18		<b>347531</b>	1999 <i>VN</i> <sub>116</sub>		9 1.3 295°73	1°2/ 2.4	18	
7 30	23 17.16	-11 59.4	1.779	2.647	13.9	18.3	7 30	23 3.53	- 2 29.4	1.703	2.571	14.4	22.1
8 9	23 8.80	-11 25.7	1.719	2.659	10.2	18.1	8 9	22 59.35	- 2 55.6	1.614	2.551	10.9	21.9
8 19	22 58.29	-10 54.5	1.684	2.672	6.0	17.8	8 19	22 53.07	- 3 38.0	1.547	2.532	6.8	21.6
8 29	22 46.51	-10 23.2	1.676	2.685	1.5	17.6	8 29	22 45.29	- 4 33.2	1.505	2.512	2.4	21.3
9 8	22 34.63	- 9 49.5	1.698	2.698	3.3	17.7	9 8	22 36.93	- 5 35.3	1.490	2.492	3.0	21.3
9 18	22 23.77	- 9 12.0	1.748	2.711	7.6	18.0	9 18	22 29.05	- 6 37.5	1.501	2.473	7.6	21.5
9 28	22 14.91	- 8 30.1	1.826	2.724	11.4	18.3	9 28	22 22.67	- 7 32.7	1.536	2.453	11.9	21.7
10 8	22 8.62	- 7 43.3	1.926	2.738	14.6	18.5	10 8	22 18.57	- 8 15.5	1.594	2.434	15.8	21.9
<b>324174</b>	2006 <i>AX</i> <sub>10</sub>		9 1.3 172°05	0°6/31.6	18		<b>68255</b>	2001 <i>DP</i> <sub>99</sub>		9 1.3 135°25	2°6/ 4.3	18	
7 30	23 2.68	- 8 10.4	2.621	3.489	10.0	22.0	7 30	23 5.05	+ 2 54.1	2.254	3.083	12.8	20.7
8 9	22 57.91	- 8 46.7	2.550	3.490	7.3	21.8	8 9	22 59.76	+ 2 31.1	2.186	3.096	9.9	20.5
8 19	22 51.82	- 9 29.7	2.503	3.492	4.2	21.6	8 19	22 52.96	+ 1 53.0	2.141	3.108	6.6	20.3
8 29	22 44.90	-10 15.7	2.485	3.493	1.1	21.4	8 29	22 45.20	+ 1 2.2	2.122	3.119	3.6	20.1
9 8	22 37.77	-11 0.8	2.495	3.494	2.6	21.5	9 8	22 37.23	+ 0 3.0	2.132	3.130	3.0	20.1
9 18	22 31.06	-11 40.9	2.535	3.495	5.7	21.7	9 18	22 29.81	- 0 59.4	2.171	3.141	5.7	20.3
9 28	22 25.40	-12 12.8	2.602	3.496	8.6	21.9	9 28	22 23.65	- 1 59.5	2.237	3.151	8.9	20.5
10 8	22 21.24	-12 34.4	2.692	3.496	11.1	22.1	10 8	22 19.24	- 2 52.7	2.327	3.160	11.7	20.7
<b>136328</b>	2004 <i>BX</i> <sub>101</sub>		9 1.3 266°14	3°7/ 4.3	18		<b>469999</b>	2006 <i>KJ</i> <sub>62</sub>		9 1.3 146°51	3°4/29.6	17	
7 30	23 7.50	+ 2 20.4	1.991	2.825	14.0	20.0	7 30	23 7.52	-12 21.7	1.421	2.317	15.1	21.6
8 9	23 1.91	+ 2 45.6	1.906	2.817	11.0	19.8	8 9	23 2.40	-13 34.6	1.365	2.320	11.0	21.4
8 19	22 54.40	+ 2 56.5	1.844	2.809	7.7	19.6	8 19	22 54.84	-14 56.2	1.331	2.323	6.5	21.1
8 29	22 45.59	+ 2 53.7	1.807	2.800	4.6	19.4	8 29	22 45.71	-16 17.3	1.321	2.326	3.4	21.0
9 8	22 36.33	+ 2 39.4	1.797	2.792	4.0	19.4	9 8	22 36.21	-17 28.2	1.338	2.329	6.0	21.1
9 18	22 27.57	+ 2 17.3	1.815	2.783	6.8	19.5	9 18	22 27.62	-18 21.3	1.380	2.331	10.4	21.4
9 28	22 20.22	+ 1 52.1	1.859	2.775	10.3	19.7	9 28	22 21.05	-18 52.3	1.445	2.333	14.5	21.7
10 8	22 14.94	+ 1 28.6	1.926	2.766	13.5	19.9	10 8	22 17.21	-19 0.5	1.529	2.335	18.0	21.9
<b>391978</b>	2008 <i>XJ</i> <sub>49</sub>		9 1.3 318°29	2°7/ 3.6	18		<b>443493</b>	2014 <i>JB</i> <sub>26</sub>		9 1.3 22°93	4°1/27.8	18	
7 30	23 4.96	+ 0 33.9	1.791	2.643	14.6	20.7	7 30	23 0.70	-14 13.9	1.711	2.611	12.7	19.9
8 9	23 0.14	+ 0 30.1	1.717	2.641	11.2	20.5	8 9	22 57.08	-15 57.4	1.659	2.617	9.2	19.7
8 19	22 53.38	+ 0 10.3	1.664	2.639	7.4	20.3	8 19	22 51.58	-17 46.9	1.631	2.622	5.7	19.5
8 29	22 45.33	+ 0 23.4	1.637	2.638	3.7	20.0	8 29	22 44.88	-19 33.2	1.630	2.629	4.1	19.4
9 8	22 36.90	- 1 6.4	1.636	2.636	3.3	20.0	9 8	22 37.89	-21 7.0	1.655	2.635	6.4	19.6
9 18	22 29.07	- 1 53.4	1.661	2.634	6.9	20.2	9 18	22 31.58	-22 21.1	1.706	2.642	9.9	19.8
9 28	22 22.76	- 2 38.3	1.713	2.633	10.7	20.4	9 28	22 26.81	-23 11.6	1.781	2.650	13.2	20.0
10 8	22 18.62	- 3 15.8	1.787	2.631	14.1	20.7	10 8	22 24.17	-23 37.8	1.875	2.658	16.0	20.3
<b>387384</b>	2013 <i>AW</i> <sub>57</sub>		9 1.3 275°37	1°1/ 3.4	16		<b>436315</b>	2010 <i>FW</i> <sub>22</sub>		9 1.3 34°24	0°8/ 2.1	16	
7 30	22 57.46	- 1 13.4	4.366	5.200	7.0	20.6	7 30	23 0.72	- 1 11.2	1.286	2.171	17.2	19.8
8 9	22 53.71	- 1 20.1	4.277	5.193	5.3	20.5	8 9	22 57.34	- 2 22.1	1.246	2.192	12.7	19.6
8 19	22 49.21	- 1 33.0	4.213	5.186	3.4	20.3	8 19	22 51.77	- 3 53.6	1.226	2.214	7.6	19.4
8 29	22 44.23	- 1 50.7	4.177	5.179	1.6	20.2	8 29	22 44.91	- 5 37.8	1.229	2.237	2.3	19.2
9 8	22 39.12	- 2 11.6	4.171	5.172	1.5	20.2	9 8	22 37.90	- 7 23.5	1.258	2.260	3.3	19.3
9 18	22 34.20	- 2 33.8	4.196	5.164	3.3	20.3	9 18	22 31.85	- 9 0.4	1.311	2.285	8.2	19.7
9 28	22 29.84	- 2 55.3	4.248	5.157	5.2	20.4	9 28	22 27.70	-10 20.1	1.389	2.310	12.6	20.0
10 8	22 26.32	- 3 14.3	4.328	5.150	6.9	20.6	10 8	22 25.99	-11 18.2	1.487	2.336	16.2	20.3
<b>449012</b>	2012 <i>BV</i> <sub>104</sub>		9 1.3 152°01	1°6/30.5	18		<b>464633</b>	1999 <i>TB</i> <sub>46</sub>		9 1.3 4°75	9°4/ 9.4	16	
7 30	23 5.22	-12 47.9	2.770	3.641	9.4	21.3	7 30	22 49.77	+11 36.0	0.783	1.668	25.2	19.5
8 9	22 59.65	-13 12.0	2.704	3.648	6.8	21.2	8 9	22 50.37	+12 0.0	0.736	1.665	21.1	19.3
8 19	22 52.79	-13 39.0	2.664	3.653	3.9	21.0	8 19	22 48.18	+11 37.8	0.703	1.666	16.5	19.0
8 29	22 45.14	-14 5.5	2.653	3.659	1.6	20.8	8 29	22 44.08	+10 27.7	0.684	1.669	12.0	18.8
9 8	22 37.33	-14 28.0	2.671	3.664	3.1	21.0	9 8	22 39.49	+ 8 37.4	0.684	1.676	9.5	18.7
9 18	22 30.00	-14 43.6	2.718	3.669	5.9	21.2	9 18	22 35.92	+ 6 22.1	0.702	1.685	10.9	18.8
9 28	22 23.73	-14 50.4	2.793	3.674	8.5	21.3	9 28	22 34.71	+ 4 1.9	0.739	1.697	15.0	19.1
10 8	22 18.98	-14 47.5	2.891	3.678	10.8	21.5	10 8	22 36.61	+ 1 55.2	0.794	1.712	19.4	19.4
<b>127091</b>	2002 <i>GZ</i> <sub>78</sub>		9 1.3 47°53	9°3/22.2	18		<b>508136</b>	2015 <i>FW</i> <sub>37</sub>		9 1.3 149°35	7°0/26.1	17	
7 30	23 8.72	-35 41.7	2.099	2.970	12.0	19.2	7 30	23 11.36	-26 24.1	1.898	2.783	12.5	22.0
8 9	23 2.77	-36 55.2	2.063	2.974	10.3	19.1	8 9	23 4.72	-27 28.1	1.851	2.789	9.7	21.8
8 19	22 54.81	-37 55.2	2.050	2.978	9.4	19.0	8 19	22 55.98	-28 25.2	1.828	2.795	7.6	21.7
8 29	22 45.65	-38 34.3	2.061	2.982	9.6	19.1	8 29	22 45.97	-29 7.5	1.831	2.801	7.1	21.7
9 8	22 36.34	-38 47.5	2.097	2.987	10.8	19.2	9 8	22 35.78	-29 29.0	1.860	2.806	8.7	21.8
9 18	22 27.93	-38 33.7	2.155	2.991	12.6	19.3	9 18	22 26.50	-29 27.1	1.914	2.811	11.2	21.9
9 28	22 21.30	-37 54.4	2.234	2.996	14.4	19.4	9 28	22 19.07	-29 2.5	1.991	2.815	13.8	22.1
10 8	22 17.02	-36 53.7	2.330	3.000	16.1	19.6	10 8	22 14.09	-28 17.9	2.088	2.819	16.1	22.3
<b>301478</b>	2009 <i>DL</i> <sub>131</sub>		9 1.3 240°59	0°6/31.7	18		<b>109098</b>	2001 <i>QG</i> <sub>34</sub>		9 1.3 55°59	0°4/31.9	18	
7 30	23 4.01	- 7 11.7	1.949	2.824	12.6	21.8	7 30	23 6.05	- 6 14.9	1.352	2.240	16.3	19.3
8 9	22 59.32	- 7 53.2	1.877	2.821	9.2	21.5	8 9	23 1.24	- 6 55.9	1.303	2.253	11.9	19.1
8 19	22 52.84	- 8 45.1	1.828	2.818	5.4	21.3	8 19	22 54.09	- 7 50.9	1.275	2.267	6.9	18.8
8 29	22 45.19	- 9 42.4	1.806	2.814	1.3	21.0	8 29	22 45.51	- 8 53.2	1.272	2.280	1.7	18.5
9 8	22 37.20	-10 39.2	1.811	2.811	3.1	21.1	9 8	22 36.70	- 9 54.4	1.293	2.294	3.7	18.7
9 18	22 29.78	-11 29.9	1.844	2.807	7.2	21.4	9 18	22 28.89	-10 46.9	1.340	2.308	8.7	19.0
9 28	22 23.75	-12 9.6	1.902	2.803	10.9	21.6	9 28	22 23.09	-11 25.0	1.410	2.323	13.1	19.3
10 8	22 19.72	-12 35.6	1.982	2.800	14.0	21.8	10 8	22 19.94	-11 45.9	1.500	2.337	16.7	19.6
<b>417888</b>	2007 <i>RN</i> <sub>11</sub>		9 1.3 169°74	1°0/ 1.9	17		<b>399020</b>	2013 <i>GZ</i> <sub>55</sub>		9 1.			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>420430</b>	2012 <i>DZ</i> <sub>28</sub>	9 1.3 163°04	1°7/30.9	17			<b>372835</b>	2010 <i>UA</i> <sub>80</sub>	9 1.3 234°44	1°8/31.1	17		
7 30	23 9.04	-9 54.1	1.704	2.584	13.9	22.2	7 30	23 10.26	-11 0.9	1.557	2.441	14.7	21.5
8 9	23 3.16	-10 42.1	1.642	2.589	10.1	22.0	8 9	23 4.34	-11 26.0	1.486	2.435	10.8	21.3
8 19	22 55.15	-11 38.9	1.603	2.593	5.8	21.8	8 19	22 56.01	-11 58.8	1.438	2.429	6.3	21.0
8 29	22 45.78	-12 38.2	1.590	2.597	1.9	21.5	8 29	22 46.05	-12 33.5	1.415	2.423	2.1	20.7
9 8	22 36.11	-13 32.9	1.604	2.601	4.2	21.7	9 8	22 35.63	-13 3.6	1.419	2.416	4.4	20.9
9 18	22 27.20	-14 16.7	1.646	2.603	8.4	21.9	9 18	22 25.99	-13 23.6	1.448	2.409	9.1	21.1
9 28	22 20.06	-14 45.6	1.712	2.605	12.3	22.2	9 28	22 18.28	-13 29.7	1.502	2.402	13.3	21.4
10 8	22 15.31	-14 58.0	1.800	2.607	15.6	22.4	10 8	22 13.24	-13 20.7	1.577	2.394	17.0	21.6
<b>402532</b>	2006 <i>ER</i> <sub>67</sub>	9 1.3 266°67	0°7/31.6	18			<b>380307</b>	2002 <i>EL</i> <sub>23</sub>	9 1.3 279°64	0°2/31.9	17		
7 30	23 2.10	-7 47.3	2.332	3.204	10.9	21.6	7 30	22 55.76	-6 33.7	4.328	5.187	6.6	20.7
8 9	22 57.71	-8 28.0	2.253	3.197	8.0	21.4	8 9	22 52.53	-7 18.6	4.244	5.180	4.8	20.5
8 19	22 51.81	-9 17.2	2.200	3.189	4.6	21.2	8 19	22 48.55	-8 8.5	4.187	5.174	2.8	20.4
8 29	22 44.94	-10 10.7	2.173	3.182	1.2	21.0	8 29	22 44.11	-9 1.4	4.159	5.167	0.7	20.2
9 8	22 37.77	-11 3.6	2.175	3.174	2.8	21.1	9 8	22 39.53	-9 54.5	4.161	5.160	1.5	20.3
9 18	22 31.03	-11 51.1	2.205	3.167	6.3	21.3	9 18	22 35.14	-10 45.3	4.193	5.154	3.6	20.4
9 28	22 25.42	-12 29.3	2.262	3.159	9.6	21.5	9 28	22 31.30	-11 31.3	4.254	5.147	5.6	20.6
10 8	22 21.48	-12 55.5	2.342	3.152	12.4	21.7	10 8	22 28.28	-12 10.6	4.341	5.140	7.3	20.7
<b>296706</b>	2009 <i>SG</i> <sub>306</sub>	9 1.3 219°96	0°7/31.4	18			<b>409700</b>	2006 <i>BZ</i> <sub>74</sub>	9 1.3 19°82	0°1/1.4	18		
7 30	23 2.43	-8 37.8	2.642	3.511	9.9	21.3	7 30	23 4.80	-6 48.7	2.263	3.129	11.4	21.6
8 9	22 57.77	-9 14.0	2.564	3.505	7.2	21.1	8 9	22 59.64	-6 58.8	2.191	3.130	8.4	21.4
8 19	22 51.78	-9 56.8	2.511	3.500	4.2	20.9	8 19	22 52.93	-7 16.6	2.143	3.130	5.0	21.2
8 29	22 44.92	-10 42.7	2.486	3.494	1.1	20.7	8 29	22 45.24	-7 39.1	2.123	3.131	1.3	20.9
9 8	22 37.82	-11 27.4	2.490	3.488	2.6	20.8	9 8	22 37.30	-8 2.5	2.130	3.131	2.5	21.0
9 18	22 31.10	-12 7.0	2.523	3.482	5.8	21.0	9 18	22 29.87	-8 23.1	2.166	3.132	6.1	21.2
9 28	22 25.41	-12 38.4	2.583	3.476	8.7	21.2	9 28	22 23.69	-8 37.8	2.228	3.133	9.4	21.4
10 8	22 21.20	-12 59.3	2.667	3.470	11.2	21.3	10 8	22 19.27	-8 44.3	2.314	3.134	12.2	21.6
<b>110148</b>	2001 <i>SG</i> <sub>155</sub>	9 1.3 292°10	0°5/1.8	18			<b>125693</b>	2001 <i>X7</i> <sub>89</sub>	9 1.3 92°75	3°1/3.5	17		
7 30	23 3.76	-4 33.9	1.958	2.825	12.9	19.7	7 30	23 9.94	+0 26.1	1.339	2.201	17.9	19.8
8 9	22 59.16	-4 58.2	1.881	2.819	9.6	19.5	8 9	23 4.16	+0 26.5	1.284	2.214	13.7	19.6
8 19	22 52.77	-5 34.2	1.827	2.813	5.8	19.2	8 19	22 55.87	+0 6.9	1.249	2.227	9.0	19.3
8 29	22 45.19	-6 18.4	1.798	2.806	1.7	18.9	8 29	22 46.00	-0 29.8	1.237	2.239	4.3	19.1
9 8	22 37.26	-7 5.5	1.798	2.800	2.7	19.0	9 8	22 35.84	-1 17.3	1.251	2.252	4.0	19.1
9 18	22 29.86	-7 50.4	1.824	2.794	6.7	19.2	9 18	22 26.71	-2 8.3	1.290	2.264	8.3	19.4
9 28	22 23.82	-8 28.1	1.877	2.787	10.5	19.5	9 28	22 19.73	-2 55.1	1.353	2.276	12.8	19.7
10 8	22 19.76	-8 54.9	1.952	2.781	13.7	19.7	10 8	22 15.59	-3 31.9	1.437	2.288	16.6	20.0
<b>323608</b>	2004 <i>TU</i> <sub>355</sub>	9 1.3 275°30	2°9/28.7	18			<b>483610</b>	2004 <i>RH</i> <sub>248</sub>	9 1.3 316°47	9°2/10.7	17		
7 30	23 2.17	-14 20.1	2.361	3.246	10.3	20.5	7 30	23 3.47	+18 54.3	2.107	2.849	16.3	20.7
8 9	22 57.86	-15 29.6	2.277	3.227	7.5	20.3	8 9	22 59.07	+19 47.3	2.017	2.838	14.3	20.5
8 19	22 51.97	-16 44.6	2.218	3.207	4.6	20.1	8 19	22 52.82	+20 17.4	1.946	2.827	12.2	20.3
8 29	22 45.00	-17 59.3	2.187	3.188	2.9	19.9	8 29	22 45.26	+20 21.6	1.896	2.817	10.3	20.2
9 8	22 37.64	-19 7.5	2.184	3.168	4.8	20.0	9 8	22 37.19	+19 59.7	1.870	2.806	9.3	20.1
9 18	22 30.65	-20 3.9	2.210	3.148	7.8	20.2	9 18	22 29.50	+19 14.0	1.868	2.797	9.6	20.1
9 28	22 24.78	-20 44.8	2.261	3.128	10.8	20.3	9 28	22 23.11	+18 10.4	1.890	2.787	11.2	20.2
10 8	22 20.61	-21 8.6	2.333	3.107	13.5	20.5	10 8	22 18.69	+16 56.5	1.935	2.778	13.3	20.3
<b>422341</b>	2014 <i>SW</i> <sub>222</sub>	9 1.3 10°99	0°2/1.5	17			<b>447051</b>	2004 <i>RK</i> <sub>186</sub>	9 1.3 45°86	0°1/1.2	18		
7 30	22 57.79	-4 43.6	0.736	1.664	21.5	20.2	7 30	23 15.54	-10 29.4	1.862	2.727	13.5	19.7
8 9	22 56.39	-5 13.1	0.697	1.666	15.9	19.9	8 9	23 7.55	-9 52.8	1.803	2.741	9.9	19.5
8 19	22 51.75	-6 7.2	0.674	1.670	9.5	19.6	8 19	22 57.56	-9 19.8	1.769	2.756	5.8	19.3
8 29	22 44.98	-7 17.3	0.668	1.677	2.5	19.2	8 29	22 46.39	-8 48.5	1.762	2.771	1.4	19.0
9 8	22 37.82	-8 30.1	0.682	1.686	4.6	19.4	9 8	22 35.12	-8 16.7	1.785	2.785	3.0	19.2
9 18	22 31.98	-9 32.7	0.715	1.696	11.2	19.8	9 18	22 24.80	-7 43.0	1.836	2.801	7.1	19.5
9 28	22 28.91	-10 15.1	0.766	1.709	17.0	20.2	9 28	22 16.34	-7 6.0	1.915	2.816	10.8	19.7
10 8	22 29.30	-10 32.7	0.833	1.723	21.8	20.5	10 8	22 10.29	-6 25.2	2.017	2.832	13.9	20.0
<b>320397</b>	2007 <i>UC</i> <sub>101</sub>	9 1.3 21°87	3°8/29.9	18			<b>71951</b>	2000 <i>WY</i> <sub>99</sub>	9 1.3 190°02	2°8/30.0	18		
7 30	23 5.20	-13 8.4	0.954	1.873	18.5	19.6	7 30	23 8.67	-12 21.7	1.588	2.476	14.2	19.3
8 9	23 1.33	-13 54.6	0.914	1.881	13.4	19.4	8 9	23 3.10	-13 16.0	1.524	2.476	10.3	19.0
8 19	22 54.42	-14 49.1	0.893	1.889	7.9	19.1	8 19	22 55.23	-14 17.8	1.484	2.475	6.1	18.8
8 29	22 45.62	-15 41.3	0.893	1.899	3.9	18.9	8 29	22 45.85	-15 19.6	1.469	2.474	2.9	18.6
9 8	22 36.58	-16 20.6	0.915	1.910	6.8	19.1	9 8	22 36.10	-16 13.6	1.480	2.472	5.2	18.7
9 18	22 28.89	-16 40.0	0.958	1.922	12.0	19.5	9 18	22 27.14	-16 53.2	1.518	2.471	9.5	19.0
9 28	22 23.87	-16 36.4	1.021	1.936	16.8	19.8	9 28	22 20.04	-17 14.8	1.579	2.468	13.5	19.2
10 8	22 22.14	-16 10.5	1.101	1.950	20.7	20.1	10 8	22 15.51	-17 17.3	1.661	2.465	16.8	19.5
<b>477076</b>	2009 <i>BV</i> <sub>78</sub>	9 1.3 195°33	1°3/30.9	18			<b>379885</b>	2012 <i>HG</i> <sub>63</sub>	9 1.3 27°57	3°3/30.1	17		
7 30	23 6.93	-10 55.2	2.560	3.428	10.2	21.9	7 30	23 4.64	-12 14.5	1.056	1.970	17.6	20.4
8 9	23 1.07	-11 24.5	2.484	3.425	7.4	21.7	8 9	23 0.65	-13 5.5	1.018	1.983	12.7	20.2
8 19	22 53.72	-11 58.7	2.432	3.421	4.3	21.5	8 19	22 53.91	-14 5.0	1.000	1.996	7.4	19.9
8 29	22 45.43	-12 34.0	2.410	3.417	1.4	21.3	8 29	22 45.50	-15 3.3	1.004	2.010	3.4	19.8
9 8	22 36.87	-13 6.2	2.417	3.412	3.1	21.4	9 8	22 36.92	-15 50.2	1.031	2.026	6.2	20.0
9 18	22 28.77	-13 31.9	2.453	3.407	6.2	21.6	9 18	22 29.60	-16 18.8	1.080	2.043	11.1	20.3
9 28	22 21.83	-13 48.3	2.516	3.401	9.2	21.8	9 28	22 24.71	-16 25.7	1.150	2.060	15.6	20.6
10 8	22 16.54	-13 54.1	2.603	3.394	11.8	21.9	10 8	22 22.84	-16 11.0	1.238	2.079	19.3	20.9
<b>179684</b>	2002 <i>QV</i> <sub>89</sub>	9 1.3 341°33	2°8/30.1	18			<b>359707</b>	2011 <i>SU</i> <sub>272</sub>	9 1.3 312°22	2°3/2.9	18		
7 30													

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>210173</b>	2006 <i>TO</i> <sub>82</sub>	9 1.3 39°07'	5°0'/28.5 18				<b>171230</b>	2005 <i>JB</i> <sub>160</sub>	9 1.3 160°16'	1°9'/30.6 18			
7 30	23 8.98	-20 24.5	1.702	2.596	13.2	20.1	7 30	23 6.06	-11 40.3	1.981	2.863	12.1	20.6
8 9	23 3.05	-20 58.4	1.654	2.604	9.8	19.9	8 9	23 0.78	-12 17.3	1.916	2.864	8.8	20.4
8 19	22 55.03	-21 29.7	1.629	2.613	6.5	19.7	8 19	22 53.71	-13 0.0	1.875	2.866	5.1	20.2
8 29	22 45.77	-21 51.9	1.629	2.623	5.0	19.7	8 29	22 45.50	-13 43.4	1.860	2.867	2.0	20.0
9 8	22 36.38	-21 59.6	1.655	2.632	6.7	19.8	9 8	22 37.01	-14 21.9	1.873	2.868	4.0	20.1
9 18	22 27.93	-21 49.8	1.707	2.643	9.9	20.0	9 18	22 29.16	-14 50.9	1.914	2.869	7.6	20.3
9 28	22 21.34	-21 22.4	1.783	2.653	13.1	20.2	9 28	22 22.77	-15 7.2	1.980	2.870	11.1	20.6
10 8	22 17.18	-20 39.0	1.879	2.664	15.9	20.5	10 8	22 18.41	-15 9.6	2.067	2.871	14.0	20.8
<b>361504</b>	2007 <i>EK</i> <sub>110</sub>	9 1.3 140°32'	1°0'/2.7 18				<b>128046</b>	2003 <i>MY</i> <sub>1</sub>	9 1.3 92°48'	6°8'/6.9 18 R			
7 30	23 1.23	-1 13.7	2.489	3.338	11.1	21.0	7 30	23 8.94	+9 41.8	1.794	2.597	16.5	19.2
8 9	22 56.94	-1 57.6	2.416	3.342	8.3	20.8	8 9	23 3.08	+10 27.8	1.726	2.605	13.6	19.0
8 19	22 51.32	-2 53.5	2.367	3.347	5.2	20.6	8 19	22 55.16	+10 53.0	1.677	2.614	10.5	18.9
8 29	22 44.85	-3 58.2	2.345	3.351	1.9	20.4	8 29	22 45.88	+10 55.9	1.653	2.622	7.8	18.7
9 8	22 38.16	-5 6.9	2.353	3.355	2.1	20.4	9 8	22 36.24	+10 38.3	1.654	2.631	6.8	18.7
9 18	22 31.90	-6 14.6	2.389	3.359	5.3	20.7	9 18	22 27.27	+10 4.1	1.681	2.639	8.3	18.8
9 28	22 26.68	-7 16.5	2.453	3.362	8.4	20.9	9 28	22 19.96	+9 20.0	1.733	2.647	11.0	19.0
10 8	22 22.99	-8 8.7	2.542	3.366	11.1	21.1	10 8	22 14.95	+8 33.0	1.808	2.655	13.9	19.2
<b>31115</b>	1997 <i>QF</i> <sub>4</sub>	9 1.3 216°27'	2°8'/3.5 18				<b>366038</b>	2012 <i>BC</i> <sub>151</sub>	9 1.3 240°89'	1°1'/31.0 18			
7 30	23 7.35	+0 51.6	1.476	2.335	16.8	18.1	7 30	23 3.99	-10 3.2	2.610	3.480	10.0	21.9
8 9	23 2.32	+0 35.1	1.403	2.332	12.9	17.8	8 9	22 59.01	-10 39.5	2.523	3.466	7.2	21.7
8 19	22 54.88	-0 1.9	1.350	2.328	8.5	17.6	8 19	22 52.59	-11 21.8	2.462	3.452	4.2	21.5
8 29	22 45.81	-0 56.4	1.321	2.324	4.0	17.3	8 29	22 45.22	-12 6.5	2.429	3.437	1.3	21.3
9 8	22 36.22	-2 2.2	1.318	2.319	3.7	17.3	9 8	22 37.53	-12 49.1	2.426	3.422	3.0	21.4
9 18	22 27.34	-3 11.3	1.341	2.315	8.1	17.5	9 18	22 30.21	-13 25.7	2.451	3.407	6.2	21.6
9 28	22 20.33	-4 15.4	1.388	2.310	12.6	17.8	9 28	22 23.92	-13 53.1	2.503	3.391	9.1	21.8
10 8	22 15.97	-5 7.9	1.456	2.305	16.6	18.0	10 8	22 19.18	-14 9.4	2.579	3.375	11.8	21.9
<b>6535</b>	Archipenko	9 1.3 66°93'	0°0'/1.2 18				<b>143752</b>	2003 <i>VJ</i> <sub>1</sub>	9 1.3 329°50'	23°5'/14.2 18			
7 30	23 14.41	-8 21.0	1.384	2.263	16.5	16.4	7 30	23 39.38	-57 30.9	1.140	1.944	24.1	18.6
8 9	23 7.19	-8 6.9	1.338	2.282	12.1	16.2	8 9	23 28.70	-58 43.9	1.098	1.920	23.6	18.4
8 19	22 57.52	-8 1.8	1.313	2.302	7.1	15.9	8 19	23 11.32	-59 12.8	1.069	1.897	23.6	18.3
8 29	22 46.42	-8 1.7	1.314	2.322	1.8	15.6	8 29	22 49.94	-58 37.5	1.054	1.875	24.1	18.3
9 8	22 35.24	-8 2.0	1.341	2.342	3.5	15.8	9 8	22 28.86	-56 48.0	1.053	1.855	25.2	18.3
9 18	22 25.30	-7 58.8	1.394	2.362	8.4	16.2	9 18	22 11.92	-53 48.7	1.066	1.836	26.7	18.4
9 28	22 17.66	-7 48.9	1.471	2.382	12.8	16.5	9 28	22 1.15	-49 54.1	1.094	1.819	28.4	18.4
10 8	22 12.90	-7 30.8	1.569	2.402	16.3	16.8	10 8	21 56.62	-45 23.4	1.135	1.803	30.1	18.6
<b>241741</b>	2000 <i>XK</i> <sub>36</sub>	9 1.3 299°55'	4°8'/4.3 18				<b>317836</b>	2003 <i>SK</i> <sub>345</sub>	9 1.3 29°92'	2°7'/4.2 18			
7 30	23 8.41	+2 28.4	1.612	2.458	16.2	19.9	7 30	23 1.42	+2 4.7	1.958	2.805	13.7	19.7
8 9	23 3.17	+3 9.4	1.520	2.436	12.9	19.6	8 9	22 57.38	+1 45.6	1.892	2.812	10.6	19.5
8 19	22 55.49	+3 34.7	1.448	2.415	9.2	19.3	8 19	22 51.71	+1 10.1	1.848	2.820	7.1	19.3
8 29	22 46.02	+3 43.4	1.401	2.394	5.7	19.1	8 29	22 44.99	+0 20.8	1.829	2.828	3.7	19.1
9 8	22 35.78	+3 37.2	1.379	2.373	5.1	19.0	9 8	22 38.03	-0 37.4	1.836	2.836	3.1	19.1
9 18	22 25.99	+3 19.6	1.382	2.352	8.3	19.1	9 18	22 31.64	-1 38.8	1.871	2.845	6.2	19.3
9 28	22 17.88	+2 56.3	1.410	2.332	12.5	19.3	9 28	22 26.58	-2 37.5	1.932	2.854	9.6	19.5
10 8	22 12.34	+2 33.6	1.460	2.312	16.3	19.5	10 8	22 23.38	-3 28.1	2.017	2.863	12.7	19.8
<b>254928</b>	2005 <i>SE</i> <sub>129</sub>	9 1.3 45°18'	0°8'/31.6 18				<b>350338</b>	2012 <i>UE</i> <sub>102</sub>	9 1.3 32°19'	2°2'/30.5 18			
7 30	23 4.21	-8 26.7	1.922	2.801	12.6	20.5	7 30	23 5.46	-11 14.7	1.587	2.479	14.1	20.4
8 9	22 59.42	-8 57.3	1.861	2.807	9.1	20.3	8 9	23 0.68	-11 59.7	1.529	2.482	10.2	20.2
8 19	22 52.89	-9 36.2	1.823	2.814	5.3	20.1	8 19	22 53.78	-12 52.4	1.494	2.486	5.9	19.9
8 29	22 45.27	-10 18.8	1.812	2.821	1.3	19.8	8 29	22 45.53	-13 46.3	1.483	2.490	2.3	19.7
9 8	22 37.42	-10 59.8	1.828	2.827	3.2	20.0	9 8	22 36.99	-14 34.1	1.499	2.495	4.6	19.9
9 18	22 30.22	-11 34.2	1.871	2.835	7.1	20.2	9 18	22 29.25	-15 10.0	1.541	2.499	8.8	20.1
9 28	22 24.46	-11 58.2	1.940	2.842	10.6	20.5	9 28	22 23.26	-15 30.0	1.606	2.504	12.7	20.4
10 8	22 20.69	-12 9.7	2.030	2.849	13.7	20.7	10 8	22 19.68	-15 32.9	1.693	2.509	16.0	20.6
<b>112287</b>	2002 <i>LZ</i> <sub>30</sub>	9 1.3 140°24'	1°3'/31.2 17				<b>139988</b>	2001 <i>SR</i> <sub>32</sub>	9 1.3 247°07'	2°9'/4.8 18			
7 30	23 7.42	-7 55.9	1.564	2.446	14.8	20.0	7 30	23 1.72	+4 38.0	2.215	3.043	13.0	20.4
8 9	23 2.13	-8 53.9	1.505	2.453	10.7	19.8	8 9	22 57.57	+3 59.5	2.127	3.035	10.2	20.2
8 19	22 54.63	-10 3.8	1.468	2.459	6.2	19.6	8 19	22 51.84	+3 2.7	2.061	3.025	7.0	20.0
8 29	22 45.73	-11 18.6	1.457	2.465	1.7	19.3	8 29	22 45.05	+1 49.8	2.020	3.016	3.9	19.8
9 8	22 36.51	-12 30.0	1.473	2.471	4.1	19.5	9 8	22 37.90	+0 25.8	2.008	3.006	3.2	19.7
9 18	22 28.10	-13 30.5	1.515	2.476	8.7	19.8	9 18	22 31.15	-1 3.2	2.024	2.997	5.9	19.9
9 28	22 21.53	-14 14.8	1.581	2.481	12.8	20.0	9 28	22 25.56	-2 30.3	2.068	2.987	9.2	20.1
10 8	22 17.44	-14 40.4	1.669	2.485	16.2	20.3	10 8	22 21.69	-3 49.3	2.137	2.977	12.3	20.3
<b>432672</b>	2011 <i>BH</i>	9 1.3 201°72'	0°7'/2.0 17				<b>58854</b>	1998 <i>HV</i> <sub>87</sub>	9 1.3 19°42'	7°0'/8.5 18 R			
7 30	23 7.64	-3 41.9	1.890	2.750	13.6	22.7	7 30	23 0.87	+12 21.5	1.687	2.493	17.3	17.9
8 9	23 2.08	-4 9.5	1.813	2.747	10.2	22.4	8 9	22 57.27	+12 34.3	1.621	2.500	14.4	17.8
8 19	22 54.55	-4 50.1	1.759	2.743	6.2	22.2	8 19	22 51.77	+12 21.1	1.573	2.507	11.3	17.6
8 29	22 45.72	-5 40.0	1.731	2.738	1.9	21.9	8 29	22 45.03	+11 41.5	1.548	2.515	8.4	17.4
9 8	22 36.49	-6 33.7	1.731	2.733	2.8	22.0	9 8	22 37.97	+10 39.2	1.546	2.524	7.0	17.4
9 18	22 27.84	-7 25.2	1.759	2.727	7.0	22.2	9 18	22 31.55	+9 20.5	1.570	2.534	8.2	17.5
9 28	22 20.69	-8 9.1	1.813	2.721	11.0	22.5	9 28	22 26.67	+7 54.0	1.618	2.544	10.8	17.7
10 8	22 15.70	-8 41.6	1.890	2.714	14.3	22.7	10 8	22 23.93	+6 28.7	1.689	2.555	13.8	17.9
<b>151473</b>	2002 <i>GP</i> <sub>168</sub>	9 1.3 113°45'	1°3'/2.8 18				<b>315086</b>	2007 <i>DO</i> <sub>81</sub>	9 1.3 100°44'	0°3'/1.7 18			
7 30	23 2.92	-1 38.1	2.406	3.255	11.								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>130287</b>	2000 <i>EW</i> <sub>27</sub>		9 1.3 307°98	4.4/26.7	18		<b>485202</b>	2010 <i>UE</i> <sub>35</sub>		9 1.4 294°85	3.1/29.6	18	
7 30	23 0.71	-17 3.2	2.104	2.999	10.9	19.0	7 30	23 7.05	-16 30.8	2.083	2.968	11.5	21.6
8 9	22 56.99	-18 44.2	2.033	2.987	8.0	18.8	8 9	23 1.54	-16 57.0	2.009	2.958	8.4	21.4
8 19	22 51.56	-20 29.7	1.988	2.974	5.3	18.6	8 19	22 54.21	-17 24.6	1.959	2.948	5.2	21.1
8 29	22 44.99	-22 11.9	1.970	2.962	4.5	18.5	8 29	22 45.69	-17 48.6	1.936	2.937	3.2	21.0
9 8	22 38.02	-23 42.6	1.980	2.950	6.5	18.6	9 8	22 36.84	-18 4.2	1.940	2.927	4.9	21.1
9 18	22 31.50	-24 55.7	2.017	2.938	9.5	18.8	9 18	22 28.57	-18 7.8	1.972	2.917	8.2	21.3
9 28	22 26.24	-25 47.1	2.077	2.926	12.4	19.0	9 28	22 21.73	-17 57.7	2.029	2.907	11.4	21.5
10 8	22 22.84	-26 16.1	2.159	2.915	15.0	19.1	10 8	22 16.91	-17 33.6	2.107	2.897	14.2	21.6
<b>373202</b>	2012 <i>DJ</i> <sub>86</sub>		9 1.3 76°94	7.9/26.8	17		<b>320981</b>	2008 <i>JK</i> <sub>12</sub>		9 1.4 341°08	3.9/28.0	18	
7 30	23 13.01	-24 18.7	1.345	2.244	15.6	19.7	7 30	23 1.20	-15 22.9	1.900	2.797	11.8	19.9
8 9	23 6.34	-25 35.1	1.317	2.265	11.9	19.5	8 9	22 57.42	-16 44.9	1.837	2.792	8.6	19.7
8 19	22 57.06	-26 43.5	1.310	2.286	8.9	19.4	8 19	22 51.85	-18 11.9	1.797	2.787	5.4	19.5
8 29	22 46.32	-27 33.5	1.327	2.307	8.0	19.4	8 29	22 45.10	-19 36.2	1.784	2.783	3.9	19.4
9 8	22 35.61	-27 57.6	1.368	2.327	9.9	19.6	9 8	22 38.02	-20 50.1	1.798	2.779	6.0	19.6
9 18	22 26.29	-27 53.3	1.433	2.348	13.0	19.8	9 18	22 31.50	-21 47.5	1.838	2.775	9.3	19.8
9 28	22 19.44	-27 22.5	1.519	2.368	16.1	20.1	9 28	22 26.38	-22 24.7	1.903	2.772	12.5	20.0
10 8	22 15.61	-26 29.8	1.623	2.388	18.8	20.3	10 8	22 23.26	-22 40.8	1.987	2.769	15.2	20.1
<b>450559</b>	2006 <i>EB</i> <sub>73</sub>		9 1.3 252°44	1.4/30.9	18		<b>380927</b>	2006 <i>HA</i> <sub>2</sub>		9 1.4 120°44	7.1/25.5	18	
7 30	23 4.85	-11 44.0	2.523	3.396	10.1	21.5	7 30	23 10.89	-27 55.2	2.060	2.941	11.8	20.7
8 9	22 59.65	-12 6.4	2.443	3.387	7.4	21.3	8 9	23 4.24	-29 3.7	2.023	2.956	9.3	20.6
8 19	22 52.97	-12 32.9	2.388	3.378	4.3	21.1	8 19	22 55.69	-30 4.0	2.010	2.970	7.5	20.5
8 29	22 45.33	-13 0.2	2.361	3.368	1.5	20.9	8 29	22 46.04	-30 48.8	2.023	2.984	7.2	20.5
9 8	22 37.42	-13 24.2	2.363	3.359	3.1	21.0	9 8	22 36.29	-31 12.8	2.063	2.998	8.6	20.6
9 18	22 29.94	-13 41.7	2.394	3.349	6.3	21.2	9 18	22 27.43	-31 13.9	2.128	3.011	10.8	20.8
9 28	22 23.57	-13 50.2	2.451	3.339	9.3	21.4	9 28	22 20.31	-30 53.0	2.215	3.024	13.1	21.0
10 8	22 18.83	-13 48.2	2.532	3.329	11.9	21.5	10 8	22 15.46	-30 12.8	2.323	3.036	15.1	21.2
<b>139006</b>	2001 <i>DF</i> <sub>37</sub>		9 1.3 122°59	0°0/ 1.2	18		<b>26454</b>	2000 <i>AQ</i> <sub>89</sub>		9 1.4 17°43	3.7/ 3.7	18	
7 30	23 9.99	- 6 37.4	1.576	2.450	15.1	20.5	7 30	23 6.59	- 0 19.0	1.160	2.039	19.0	17.0
8 9	23 3.96	- 6 58.6	1.517	2.460	11.1	20.2	8 9	23 2.10	+ 0 7.8	1.104	2.043	14.6	16.8
8 19	22 55.70	- 7 31.2	1.481	2.469	6.5	20.0	8 19	22 54.89	+ 0 14.6	1.068	2.048	9.7	16.5
8 29	22 46.04	- 8 10.2	1.469	2.478	1.6	19.7	8 29	22 45.90	+ 0 2.9	1.053	2.055	5.0	16.3
9 8	22 36.11	- 8 49.5	1.485	2.486	3.3	19.9	9 8	22 36.51	- 0 22.2	1.061	2.062	4.5	16.3
9 18	22 27.06	- 9 23.2	1.527	2.495	8.0	20.2	9 18	22 28.14	- 0 54.0	1.093	2.070	8.9	16.6
9 28	22 19.91	- 9 46.7	1.595	2.503	12.2	20.4	9 28	22 22.06	- 1 24.7	1.146	2.079	13.6	16.9
10 8	22 15.29	- 9 57.4	1.683	2.510	15.7	20.7	10 8	22 19.01	- 1 48.0	1.220	2.089	17.8	17.2
<b>359893</b>	2011 <i>WT</i> <sub>55</sub>		9 1.3 166°18	2°2/29.7	18		<b>65866</b>	1997 <i>PA</i> <sub>4</sub>		9 1.4 325°19	9°9/ 7.3	18	
7 30	23 4.27	-13 39.6	2.567	3.444	9.9	21.6	7 30	23 9.81	+14 23.9	1.901	2.670	16.9	17.2
8 9	22 59.14	-14 25.1	2.502	3.448	7.1	21.4	8 9	23 4.12	+16 7.7	1.803	2.648	14.7	17.0
8 19	22 52.62	-15 14.0	2.462	3.451	4.2	21.2	8 19	22 56.09	+17 34.2	1.725	2.626	12.5	16.8
8 29	22 45.24	-16 1.7	2.450	3.454	2.2	21.1	8 29	22 46.27	+18 38.2	1.671	2.605	10.6	16.7
9 8	22 37.65	-16 43.7	2.467	3.456	3.8	21.2	9 8	22 35.58	+19 16.6	1.641	2.584	9.9	16.6
9 18	22 30.54	-17 16.5	2.513	3.458	6.6	21.4	9 18	22 25.14	+19 29.5	1.636	2.564	10.8	16.6
9 28	22 24.54	-17 37.4	2.586	3.460	9.4	21.6	9 28	22 16.14	+19 20.5	1.655	2.544	12.9	16.7
10 8	22 20.14	-17 45.5	2.681	3.461	11.8	21.8	10 8	22 9.49	+18 56.6	1.696	2.526	15.4	16.8
<b>485783</b>	2012 <i>DE</i> <sub>6</sub>		9 1.4 235°12	6°5/25.3	18		<b>2398</b>	Jilin		9 1.4 261°21	2°2/30.4	18	
7 30	23 12.01	-31 19.2	2.691	3.555	9.9	20.9	7 30	23 7.58	-10 59.1	1.780	2.662	13.3	17.4
8 9	23 4.83	-31 56.0	2.627	3.545	8.1	20.8	8 9	23 2.38	-11 51.6	1.693	2.641	9.7	17.2
8 19	22 55.98	-32 24.2	2.587	3.534	6.8	20.7	8 19	22 54.95	-12 53.5	1.629	2.619	5.7	16.9
8 29	22 46.09	-32 38.4	2.574	3.523	6.6	20.7	8 29	22 45.94	-13 58.9	1.591	2.597	2.3	16.6
9 8	22 36.01	-32 34.8	2.590	3.512	7.7	20.7	9 8	22 36.32	-15 0.0	1.580	2.575	4.6	16.7
9 18	22 26.57	-32 12.0	2.632	3.501	9.5	20.8	9 18	22 27.17	-15 50.2	1.597	2.551	8.9	17.0
9 28	22 18.56	-31 30.5	2.698	3.489	11.5	21.0	9 28	22 19.58	-16 24.3	1.638	2.527	13.0	17.1
10 8	22 12.49	-30 32.8	2.786	3.477	13.3	21.1	10 8	22 14.35	-16 40.1	1.700	2.503	16.6	17.3
<b>515890</b>	2015 <i>PH</i> <sub>40</sub>		9 1.4 41°85	4°1/28.0	18		<b>323795</b>	2005 <i>QH</i> <sub>149</sub>		9 1.4 107°78	16°4/28.3	17	
7 30	23 2.66	-15 31.2	1.810	2.707	12.3	21.2	7 30	23 41.18	-40 54.1	1.001	1.863	22.7	19.6
8 9	22 58.46	-16 57.5	1.758	2.713	8.9	21.0	8 9	23 28.25	-41 31.1	0.965	1.869	19.6	19.5
8 19	22 52.42	-18 27.8	1.730	2.719	5.6	20.8	8 19	23 10.28	-41 33.3	0.945	1.875	17.2	19.4
8 29	22 45.21	-19 53.9	1.728	2.726	4.1	20.7	8 29	22 49.67	-40 43.8	0.946	1.881	16.4	19.3
9 8	22 37.74	-21 8.0	1.753	2.733	6.2	20.9	9 8	22 29.72	-38 57.1	0.967	1.887	17.5	19.4
9 18	22 30.95	-22 4.0	1.804	2.739	9.5	21.1	9 18	22 13.25	-36 21.8	1.011	1.893	20.0	19.6
9 28	22 25.68	-22 38.8	1.879	2.746	12.7	21.3	9 28	22 1.88	-33 14.3	1.074	1.898	23.0	19.8
10 8	22 22.50	-22 52.1	1.974	2.754	15.4	21.5	10 8	21 55.86	-29 51.9	1.154	1.904	25.7	20.1
<b>133935</b>	2004 <i>TK</i> <sub>1</sub>		9 1.4 330°30	0°2/ 1.1	18		<b>17753</b>	1998 <i>DZ</i> <sub>5</sub>		9 1.4 187°86	0°2/ 1.6	18	R
7 30	22 58.97	- 4 35.1	1.721	2.603	13.6	18.9	7 30	23 5.65	- 4 28.0	2.142	3.001	12.2	18.9
8 9	22 55.99	- 5 34.7	1.638	2.585	10.1	18.7	8 9	23 0.43	- 5 10.3	2.066	3.001	9.0	18.7
8 19	22 51.11	- 6 50.5	1.578	2.568	6.0	18.4	8 19	22 53.53	- 6 4.2	2.015	3.000	5.4	18.4
8 29	22 44.92	- 8 17.4	1.543	2.551	1.5	18.1	8 29	22 45.53	- 7 5.5	1.990	2.998	1.5	18.2
9 8	22 38.26	- 9 47.4	1.534	2.535	3.2	18.2	9 8	22 37.22	- 8 8.8	1.995	2.996	2.6	18.3
9 18	22 32.07	-11 12.3	1.552	2.520	7.8	18.4	9 18	22 29.41	- 9 8.4	2.028	2.993	6.5	18.5
9 28	22 27.28	-12 24.6	1.594	2.506	11.9	18.6	9 28	22 22.91	- 9 59.4	2.087	2.990	10.0	18.7
10 8	22 24.60	-13 19.2	1.658	2.492	15.5	18.8	10 8	22 18.27	-10 38.3	2.171	2.986	13.0	18.9
<b>378287</b>	2007 <i>EF</i> <sub>131</sub>		9 1.4 245°24	0°0/ 1.2	17		<b>477043</b>	2009 <i>AE</i> <sub>34</sub>		9 1.4 267°13	3°5/29.0		

EPHEMERIDES

9 1.4

9 1.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>516748</b>	2009 <i>SK</i> <sub>24</sub>		9 1.4 350°30	3°7/ 5.5 18			<b>220490</b>	2004 <i>CR</i> <sub>91</sub>		9 1.4 203°40	3°8/ 4.4 17		
7 30	23 0.53	+ 5 48.9	2.062	2.891	13.8	20.8	7 30	23 7.92	+ 2 49.7	1.655	2.498	16.0	20.3
8 9	22 56.78	+ 5 29.6	1.983	2.888	11.0	20.6	8 9	23 2.57	+ 2 56.1	1.580	2.496	12.5	20.1
8 19	22 51.42	+ 4 51.4	1.926	2.886	7.8	20.4	8 19	22 55.02	+ 2 43.7	1.526	2.494	8.6	19.9
8 29	22 45.00	+ 3 56.0	1.893	2.884	4.8	20.2	8 29	22 45.98	+ 2 13.9	1.496	2.492	4.9	19.7
9 8	22 38.27	+ 2 47.8	1.887	2.882	3.8	20.1	9 8	22 36.48	+ 1 30.8	1.492	2.490	4.2	19.6
9 18	22 32.01	+ 1 32.5	1.909	2.881	6.2	20.3	9 18	22 27.64	+ 0 40.3	1.515	2.487	7.5	19.8
9 28	22 26.97	+ 0 17.0	1.956	2.880	9.4	20.5	9 28	22 20.49	- 0 10.6	1.563	2.484	11.5	20.1
10 8	22 23.73	- 0 52.6	2.028	2.879	12.4	20.7	10 8	22 15.76	- 0 55.6	1.633	2.481	15.1	20.3
<b>181971</b>	1999 <i>VM</i> <sub>17</sub>		9 1.4 334°86	0°7/ 1.8 18			<b>52823</b>	1998 <i>RA</i> <sub>7</sub>		9 1.4 185°91	0°1/ 1.5 18		
7 30	23 1.84	- 5 38.0	1.027	1.934	18.6	19.6	7 30	23 8.36	- 4 30.7	1.420	2.297	16.3	19.3
8 9	22 59.17	- 5 41.1	0.956	1.914	14.0	19.3	8 9	23 3.13	- 5 11.9	1.353	2.297	12.1	19.1
8 19	22 53.50	- 6 1.8	0.903	1.896	8.6	19.0	8 19	22 55.44	- 6 9.7	1.309	2.297	7.2	18.8
8 29	22 45.64	- 6 36.0	0.870	1.879	2.5	18.5	8 29	22 46.10	- 7 18.4	1.288	2.296	1.9	18.5
9 8	22 36.95	- 7 16.0	0.859	1.863	4.1	18.6	9 8	22 36.29	- 8 29.6	1.293	2.295	3.5	18.6
9 18	22 29.06	- 7 53.0	0.870	1.849	10.3	18.9	9 18	22 27.29	- 9 34.8	1.325	2.294	8.7	18.9
9 28	22 23.51	- 8 18.8	0.901	1.836	16.1	19.2	9 28	22 20.28	- 10 26.9	1.380	2.292	13.4	19.2
10 8	22 21.31	- 8 27.8	0.949	1.825	21.0	19.4	10 8	22 16.01	- 11 1.6	1.455	2.290	17.3	19.4
<b>129308</b>	2005 <i>SB</i> <sub>193</sub>		9 1.4 322°63	5°9/27.2 18			<b>149334</b>	2002 <i>VK</i> <sub>67</sub>		9 1.4 226°62	3°9/ 4.6 18		
7 30	23 9.55	-24 50.0	2.050	2.935	11.7	19.2	7 30	23 8.88	+ 3 43.4	1.976	2.802	14.4	20.5
8 9	23 3.37	-25 27.9	1.992	2.933	9.0	19.0	8 9	23 3.08	+ 3 52.8	1.886	2.791	11.4	20.3
8 19	22 55.26	-26 0.3	1.957	2.930	6.7	18.9	8 19	22 55.27	+ 3 45.7	1.818	2.780	8.0	20.1
8 29	22 45.97	-26 21.1	1.948	2.928	5.9	18.8	8 29	22 46.05	+ 3 22.8	1.775	2.768	4.8	19.9
9 8	22 36.47	-26 25.3	1.967	2.926	7.4	18.9	9 8	22 36.32	+ 2 46.9	1.760	2.755	4.1	19.8
9 18	22 27.72	-26 10.6	2.011	2.924	10.0	19.1	9 18	22 27.04	+ 2 2.9	1.773	2.741	7.0	19.9
9 28	22 20.62	-25 37.1	2.080	2.922	12.7	19.3	9 28	22 19.18	+ 1 16.3	1.812	2.727	10.5	20.1
10 8	22 15.73	-24 46.9	2.169	2.920	15.1	19.4	10 8	22 13.46	+ 0 33.2	1.875	2.713	13.9	20.3
<b>421213</b>	2013 <i>SU</i> <sub>26</sub>		9 1.4 328°74	4°2/29.1 18			<b>47297</b>	1999 <i>WN</i> <sub>2</sub>		9 1.4 352°41	2°6/30.5 18		
7 30	23 5.18	-13 54.8	1.265	2.172	15.8	20.2	7 30	23 6.23	-11 5.9	1.316	2.215	15.9	18.1
8 9	23 1.10	-15 4.5	1.205	2.165	11.5	19.9	8 9	23 1.71	-11 55.3	1.256	2.213	11.5	17.8
8 19	22 54.36	-16 22.7	1.165	2.159	7.0	19.6	8 19	22 54.64	-12 54.9	1.218	2.212	6.7	17.6
8 29	22 45.82	-17 39.5	1.149	2.153	4.2	19.4	8 29	22 45.89	-13 56.6	1.203	2.210	2.7	17.3
9 8	22 36.77	-18 44.3	1.158	2.147	6.9	19.6	9 8	22 36.71	-14 51.3	1.214	2.210	5.3	17.5
9 18	22 28.60	-19 28.7	1.189	2.142	11.5	19.8	9 18	22 28.43	-15 31.5	1.248	2.209	10.2	17.8
9 28	22 22.58	-19 48.3	1.242	2.137	15.9	20.1	9 28	22 22.24	-15 52.5	1.305	2.209	14.6	18.0
10 8	22 19.50	-19 42.9	1.313	2.133	19.7	20.3	10 8	22 18.87	-15 53.0	1.381	2.209	18.4	18.3
<b>19300</b>	1996 <i>SH</i> <sub>6</sub>		9 1.4 143°84	3°1/ 4.2 18			<b>173000</b>	2006 <i>MT</i> <sub>3</sub>		9 1.4 338°65	8°2/26.3 18		
7 30	23 5.72	+ 3 15.6	1.557	2.406	16.5	17.8	7 30	23 3.86	-20 36.8	1.060	1.982	16.8	18.8
8 9	23 0.98	+ 2 43.2	1.489	2.410	12.8	17.5	8 9	23 0.61	-22 12.7	1.008	1.972	12.8	18.5
8 19	22 54.07	+ 1 48.3	1.442	2.414	8.6	17.3	8 19	22 54.29	-23 50.0	0.975	1.962	9.2	18.3
8 29	22 45.72	+ 0 34.2	1.419	2.419	4.4	17.1	8 29	22 45.84	-25 14.6	0.963	1.953	8.3	18.3
9 8	22 36.99	- 0 52.1	1.422	2.422	3.7	17.0	9 8	22 36.82	-26 13.3	0.974	1.946	11.0	18.4
9 18	22 28.98	- 2 21.8	1.451	2.426	7.5	17.3	9 18	22 28.86	-26 38.1	1.005	1.939	15.2	18.6
9 28	22 22.72	- 3 46.0	1.506	2.429	11.7	17.5	9 28	22 23.44	-26 27.3	1.054	1.933	19.4	18.8
10 8	22 18.90	- 4 57.5	1.583	2.432	15.4	17.8	10 8	22 21.38	-25 44.4	1.119	1.929	22.9	19.1
<b>60806</b>	2000 <i>HT</i> <sub>25</sub>		9 1.4 358°25	4°1/ 4.1 18			<b>369946</b>	2013 <i>GW</i> <sub>98</sub>		9 1.4 163°34	3°1/ 5.3 18		
7 30	23 0.02	+ 1 37.8	0.923	1.820	21.2	17.7	7 30	23 2.07	+ 5 21.2	2.523	3.340	11.9	21.4
8 9	22 57.82	+ 1 40.0	0.867	1.815	16.5	17.4	8 9	22 57.62	+ 4 59.0	2.444	3.343	9.4	21.2
8 19	22 52.65	+ 1 13.1	0.828	1.812	11.1	17.1	8 19	22 51.81	+ 4 21.4	2.387	3.345	6.6	21.0
8 29	22 45.41	+ 0 19.5	0.807	1.810	5.8	16.8	8 29	22 45.13	+ 3 30.2	2.357	3.348	4.0	20.9
9 8	22 37.59	- 0 52.4	0.808	1.810	4.8	16.7	9 8	22 38.21	+ 2 29.1	2.355	3.350	3.2	20.8
9 18	22 30.77	- 2 10.9	0.829	1.811	9.8	17.0	9 18	22 31.70	+ 1 22.6	2.382	3.352	5.3	20.9
9 28	22 26.41	- 3 23.5	0.870	1.814	15.3	17.3	9 28	22 26.23	+ 0 16.0	2.436	3.354	8.1	21.1
10 8	22 25.37	- 4 20.2	0.928	1.819	20.1	17.6	10 8	22 22.28	- 0 45.7	2.516	3.355	10.7	21.3
<b>96283</b>	1995 <i>YQ</i> <sub>5</sub>		9 1.4 327°69	1°6/31.0 18			<b>115477</b>	Brantania		9 1.4 279°24	2°0/30.8 18		
7 30	23 3.97	- 9 17.6	1.535	2.427	14.4	20.0	7 30	23 7.70	-12 6.1	1.819	2.702	13.0	19.3
8 9	22 59.81	-10 1.8	1.466	2.418	10.5	19.7	8 9	23 2.29	-12 30.7	1.742	2.691	9.5	19.1
8 19	22 53.44	-10 57.1	1.418	2.411	6.1	19.4	8 19	22 54.81	-13 1.0	1.689	2.680	5.6	18.8
8 29	22 45.58	-11 57.1	1.395	2.403	1.9	19.2	8 29	22 45.93	-13 32.1	1.662	2.669	2.1	18.6
9 8	22 37.27	-12 54.0	1.398	2.397	4.3	19.3	9 8	22 36.63	-13 58.3	1.662	2.657	4.2	18.7
9 18	22 29.63	-13 40.8	1.427	2.390	8.9	19.6	9 18	22 27.94	-14 15.0	1.689	2.646	8.2	18.9
9 28	22 23.74	-14 12.3	1.479	2.384	13.1	19.8	9 28	22 20.84	-14 18.9	1.740	2.635	12.1	19.1
10 8	22 20.30	-14 25.8	1.551	2.378	16.8	20.0	10 8	22 16.01	-14 8.9	1.814	2.624	15.4	19.3
<b>75930</b>	2000 <i>CO</i> <sub>70</sub>		9 1.4 186°38	3°8/ 5.1 18			<b>386761</b>	2010 <i>CJ</i> <sub>98</sub>		9 1.4 261°81	2°0/30.3 18		
7 30	23 7.17	+ 4 36.1	2.337	3.152	12.8	19.5	7 30	23 3.82	- 9 5.2	1.791	2.676	13.1	21.3
8 9	23 1.46	+ 4 49.7	2.254	3.152	10.2	19.3	8 9	22 59.52	-10 22.3	1.713	2.663	9.5	21.0
8 19	22 54.12	+ 4 49.0	2.195	3.151	7.2	19.1	8 19	22 53.22	-11 51.6	1.659	2.650	5.5	20.8
8 29	22 45.72	+ 4 34.5	2.162	3.150	4.6	19.0	8 29	22 45.54	-13 26.1	1.630	2.637	2.1	20.5
9 8	22 36.99	+ 4 8.7	2.157	3.148	3.9	18.9	9 8	22 37.38	-14 57.3	1.630	2.624	4.5	20.6
9 18	22 28.72	+ 3 35.2	2.180	3.146	6.0	19.1	9 18	22 29.73	-16 17.0	1.656	2.611	8.6	20.9
9 28	22 21.66	+ 2 58.6	2.231	3.144	8.9	19.2	9 28	22 23.56	-17 19.2	1.708	2.598	12.6	21.1
10 8	22 16.38	+ 2 23.4	2.306	3.141	11.7	19.4	10 8	22 19.57	-18 0.8	1.780	2.584	15.9	21.3
<b>186942</b>	2004 <i>QQ</i> <sub>12</sub>		9 1.4 359°99	5°9/26.7 18			<b>112722</b>	2002 <i>PB</i> <sub>118</sub>		9 1.4 289°04	2		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>517834</b>	2015 <i>RY</i> <sub>101</sub>	9 1.4 276°67	4°8/27.9	18			<b>476557</b>	2008 <i>KA</i> <sub>1</sub>	9 1.4 158°97	3°4/4.8	17		
7 30	23 9.82	-22 46.4	2.271	3.151	10.8	21.0	7 30	23 6.19	+ 4 45.0	1.912	2.740	14.7	22.1
8 9	23 3.52	-23 15.0	2.195	3.137	8.2	20.8	8 9	23 1.01	+ 4 17.7	1.839	2.747	11.5	21.9
8 19	22 55.39	-23 40.3	2.145	3.122	5.8	20.6	8 19	22 53.98	+ 3 30.6	1.788	2.752	8.0	21.7
8 29	22 46.07	-23 56.7	2.121	3.107	4.8	20.5	8 29	22 45.75	+ 2 26.3	1.762	2.757	4.5	21.5
9 8	22 36.43	-23 59.6	2.125	3.092	6.3	20.6	9 8	22 37.21	+ 1 10.1	1.764	2.762	3.7	21.5
9 18	22 27.38	-23 46.6	2.156	3.077	9.0	20.7	9 18	22 29.26	- 0 11.3	1.794	2.766	6.6	21.7
9 28	22 19.77	-23 17.0	2.213	3.062	11.7	20.9	9 28	22 22.77	- 1 30.4	1.850	2.769	10.2	21.9
10 8	22 14.20	-22 32.1	2.291	3.047	14.2	21.0	10 8	22 18.34	- 2 40.9	1.931	2.772	13.4	22.1
<b>514633</b>	2004 <i>TD</i> <sub>213</sub>	9 1.4 359°12	6°8/26.9	18			<b>313166</b>	2001 <i>FW</i> <sub>66</sub>	9 1.4 175°89	0°4/1.9	18		
7 30	23 5.38	-23 55.1	1.562	2.465	13.6	20.1	7 30	23 1.30	- 2 55.0	2.719	3.570	10.2	20.8
8 9	23 0.81	-24 44.8	1.510	2.462	10.4	19.9	8 9	22 56.99	- 3 48.6	2.642	3.572	7.5	20.6
8 19	22 53.97	-25 29.4	1.481	2.460	7.7	19.8	8 19	22 51.44	- 4 52.7	2.590	3.573	4.6	20.4
8 29	22 45.71	-26 0.7	1.475	2.459	6.9	19.7	8 29	22 45.08	- 6 3.8	2.566	3.574	1.4	20.2
9 8	22 37.20	-26 12.2	1.494	2.459	8.7	19.8	9 8	22 38.50	- 7 17.3	2.572	3.574	2.0	20.3
9 18	22 29.58	-26 0.6	1.537	2.460	11.7	20.0	9 18	22 32.30	- 8 28.2	2.608	3.574	5.2	20.5
9 28	22 23.89	-25 26.1	1.601	2.462	14.8	20.2	9 28	22 27.04	- 9 32.3	2.672	3.574	8.1	20.7
10 8	22 20.72	-24 31.2	1.684	2.465	17.6	20.4	10 8	22 23.18	-10 26.1	2.760	3.574	10.6	20.8
<b>95475</b>	2002 <i>EB</i> <sub>5</sub>	9 1.4 21°70	1°5/31.1	18			<b>491833</b>	2013 <i>AC</i> <sub>37</sub>	9 1.4 215°16	1°8/3.1	18		
7 30	23 6.92	-11 42.9	1.949	2.830	12.3	19.2	7 30	23 6.65	- 1 39.2	2.212	3.058	12.4	21.6
8 9	23 1.45	-11 55.4	1.885	2.833	9.0	19.0	8 9	23 1.18	- 1 40.8	2.130	3.054	9.4	21.4
8 19	22 54.17	-12 12.6	1.845	2.836	5.2	18.8	8 19	22 54.03	- 1 53.8	2.072	3.049	6.0	21.2
8 29	22 45.76	-12 30.3	1.831	2.839	1.7	18.6	8 29	22 45.78	- 2 16.2	2.041	3.044	2.7	20.9
9 8	22 37.11	-12 44.2	1.845	2.843	3.6	18.7	9 8	22 37.18	- 2 44.6	2.037	3.038	2.6	20.9
9 18	22 29.13	-12 50.7	1.886	2.846	7.3	19.0	9 18	22 29.05	- 3 14.8	2.063	3.033	6.0	21.2
9 28	22 22.66	-12 47.3	1.953	2.850	10.8	19.2	9 28	22 22.19	- 3 42.9	2.115	3.027	9.4	21.4
10 8	22 18.26	-12 32.9	2.042	2.855	13.8	19.4	10 8	22 17.17	- 4 5.0	2.191	3.021	12.4	21.5
<b>349701</b>	2008 <i>XR</i> <sub>37</sub>	9 1.4 289°15	5°7/27.4	18			<b>429759</b>	2011 <i>WR</i> <sub>72</sub>	9 1.4 286°99	4°8/11.1	16		
7 30	23 7.17	-20 15.5	1.694	2.590	13.1	21.0	7 30	22 58.06	+18 41.6	4.401	5.105	8.9	20.3
8 9	23 2.19	-21 21.1	1.620	2.571	9.8	20.7	8 9	22 54.30	+18 59.3	4.306	5.101	7.7	20.2
8 19	22 54.90	-22 27.7	1.569	2.553	6.8	20.5	8 19	22 49.73	+19 4.7	4.233	5.098	6.5	20.1
8 29	22 46.00	-23 26.7	1.544	2.534	5.7	20.4	8 29	22 44.64	+18 57.6	4.185	5.095	5.4	20.0
9 8	22 36.56	-24 10.0	1.544	2.515	7.8	20.5	9 8	22 39.38	+18 38.6	4.162	5.092	4.8	19.9
9 18	22 27.75	-24 32.0	1.569	2.496	11.2	20.7	9 18	22 34.32	+18 9.2	4.167	5.088	5.0	20.0
9 28	22 20.69	-24 30.2	1.617	2.477	14.7	20.8	9 28	22 29.82	+17 31.8	4.199	5.085	5.8	20.0
10 8	22 16.15	-24 5.7	1.684	2.459	17.8	21.0	10 8	22 26.19	+16 49.4	4.257	5.082	6.9	20.1
<b>475362</b>	2006 <i>CE</i> <sub>68</sub>	9 1.4 228°03	1°5/30.9	18			<b>95901</b>	2003 <i>HY</i> <sub>22</sub>	9 1.4 76°25	1°2/2.4	18		
7 30	23 3.95	- 7 50.9	1.846	2.726	13.0	21.5	7 30	23 6.89	- 3 0.9	1.593	2.461	15.3	19.7
8 9	22 59.50	- 9 3.2	1.774	2.721	9.4	21.2	8 9	23 1.73	- 3 19.1	1.533	2.470	11.4	19.5
8 19	22 53.15	-10 27.7	1.725	2.716	5.4	21.0	8 19	22 54.48	- 3 52.0	1.495	2.479	7.0	19.3
8 29	22 45.53	-11 57.6	1.702	2.710	1.7	20.7	8 29	22 45.89	- 4 35.7	1.482	2.489	2.5	19.0
9 8	22 37.52	-13 25.1	1.708	2.705	3.9	20.9	9 8	22 37.02	- 5 24.0	1.496	2.498	3.0	19.1
9 18	22 30.06	-14 42.7	1.741	2.699	8.0	21.1	9 18	22 28.95	- 6 10.7	1.535	2.507	7.4	19.4
9 28	22 24.05	-15 44.4	1.799	2.693	11.8	21.3	9 28	22 22.64	- 6 49.9	1.600	2.517	11.6	19.6
10 8	22 20.13	-16 27.3	1.879	2.686	15.1	21.6	10 8	22 18.71	- 7 17.5	1.686	2.526	15.1	19.9
<b>103487</b>	2000 <i>AC</i> <sub>232</sub>	9 1.4 242°13	0°9/2.2	18			<b>338555</b>	2003 <i>SJ</i> <sub>58</sub>	9 1.4 8°90	7°0/5.4	18		
7 30	23 5.60	- 3 44.4	1.981	2.842	13.0	20.0	7 30	23 13.77	+ 6 17.9	1.641	2.459	17.2	19.7
8 9	23 0.59	- 4 4.2	1.901	2.835	9.7	19.8	8 9	23 6.97	+ 7 41.6	1.567	2.460	14.1	19.5
8 19	22 53.75	- 4 36.0	1.844	2.828	6.0	19.6	8 19	22 57.71	+ 8 48.4	1.514	2.460	10.7	19.3
8 29	22 45.69	- 5 16.8	1.813	2.820	2.0	19.3	8 29	22 46.77	+ 9 35.2	1.486	2.461	7.8	19.2
9 8	22 37.23	- 6 1.5	1.810	2.813	2.6	19.3	9 8	22 35.27	+10 1.5	1.483	2.463	7.1	19.1
9 18	22 29.29	- 6 45.1	1.835	2.805	6.7	19.6	9 18	22 24.48	+10 9.3	1.507	2.464	9.1	19.3
9 28	22 22.72	- 7 22.5	1.886	2.797	10.4	19.8	9 28	22 15.56	+10 3.7	1.556	2.466	12.3	19.5
10 8	22 18.16	- 7 50.0	1.959	2.788	13.7	20.0	10 8	22 9.31	+ 9 51.3	1.627	2.468	15.5	19.7
<b>46279</b>	2001 <i>KQ</i> <sub>12</sub>	9 1.4 345°30	12°2/12.7	18			<b>193567</b>	2001 <i>AE</i> <sub>32</sub>	9 1.4 286°35	4°3/28.5	18		
7 30	22 58.21	+20 2.0	1.388	2.169	21.6	17.1	7 30	23 5.92	-16 25.2	1.683	2.578	13.2	19.6
8 9	22 56.00	+21 1.8	1.309	2.155	19.2	16.9	8 9	23 1.21	-17 29.5	1.612	2.566	9.7	19.3
8 19	22 51.43	+21 27.9	1.246	2.142	16.5	16.7	8 19	22 54.30	-18 38.2	1.564	2.553	6.2	19.1
8 29	22 45.15	+21 14.8	1.200	2.131	14.1	16.5	8 29	22 45.88	-19 43.2	1.542	2.540	4.3	19.0
9 8	22 38.21	+20 21.5	1.173	2.121	12.4	16.4	9 8	22 36.99	-20 36.6	1.546	2.528	6.5	19.1
9 18	22 31.83	+18 52.3	1.168	2.112	12.5	16.4	9 18	22 28.74	-21 12.3	1.575	2.515	10.2	19.2
9 28	22 27.25	+16 57.5	1.183	2.106	14.3	16.5	9 28	22 22.17	-21 26.9	1.628	2.503	13.9	19.4
10 8	22 25.34	+14 50.9	1.219	2.100	16.9	16.6	10 8	22 18.03	-21 20.2	1.700	2.490	17.1	19.6
<b>70266</b>	1999 <i>RU</i> <sub>95</sub>	9 1.4 134°67	6°2/28.1	18			<b>38587</b>	1999 <i>XO</i> <sub>80</sub>	9 1.4 111°24	4°2/6.6	18		
7 30	23 14.63	-22 22.3	1.556	2.445	14.4	18.6	7 30	23 2.95	+ 8 23.8	2.506	3.305	12.5	18.8
8 9	23 7.50	-23 7.5	1.506	2.452	10.9	18.4	8 9	22 58.26	+ 8 21.8	2.433	3.315	10.1	18.7
8 19	22 57.87	-23 48.3	1.478	2.458	7.6	18.2	8 19	22 52.21	+ 8 3.5	2.383	3.325	7.5	18.5
8 29	22 46.73	-24 16.2	1.476	2.464	6.2	18.2	8 29	22 45.29	+ 7 29.9	2.357	3.335	5.2	18.4
9 8	22 35.38	-24 24.9	1.500	2.470	8.1	18.3	9 8	22 38.17	+ 6 43.6	2.360	3.345	4.3	18.4
9 18	22 25.16	-24 11.3	1.549	2.475	11.4	18.5	9 18	22 31.49	+ 5 48.9	2.390	3.355	5.7	18.5
9 28	22 17.17	-23 36.1	1.621	2.480	14.8	18.7	9 28	22 25.90	+ 4 50.7	2.448	3.364	8.1	18.6
10 8	22 12.04	-22 42.4	1.712	2.485	17.7	19.0	10 8	22 21.86	+ 3 54.2	2.530	3.373	10.5	18.8
<b>350400</b>	2012 <i>VR</i> <sub>26</sub>	9 1.4 225°76	0°2/1.6	18			<b>505845</b>	2015 <i>CM</i> <sub>40</sub>	9 1.4 132°51	3°3/29.5</			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>270244</b>	2001 <i>UL</i> <sub>18</sub>		9 1.4 303°09	4°0/29.3	18		<b>24508</b>	2001 <i>BL</i> <sub>26</sub>		9 1.4 284°88	0°5/31.4	17	
7 30	23 6.86	-15 10.1	1.479	2.378	14.5	20.8	7 30	22 57.12	-9 30.5	4.303	5.168	6.5	19.4
8 9	23 2.13	-16 2.5	1.411	2.367	10.6	20.6	8 9	22 53.61	-9 56.2	4.222	5.162	4.7	19.3
8 19	22 54.94	-17 0.5	1.364	2.355	6.5	20.3	8 19	22 49.33	-10 25.3	4.168	5.156	2.7	19.1
8 29	22 46.07	-17 55.8	1.342	2.344	4.0	20.2	8 29	22 44.57	-10 55.9	4.142	5.150	0.7	19.0
9 8	22 36.69	-18 40.2	1.345	2.333	6.4	20.3	9 8	22 39.69	-11 25.7	4.146	5.144	1.7	19.1
9 18	22 28.06	-19 7.2	1.373	2.322	10.6	20.5	9 18	22 35.01	-11 52.6	4.180	5.138	3.7	19.2
9 28	22 21.34	-19 13.4	1.423	2.312	14.7	20.7	9 28	22 30.90	-12 14.8	4.242	5.132	5.7	19.3
10 8	22 17.33	-18 58.6	1.493	2.301	18.2	20.9	10 8	22 27.63	-12 30.8	4.329	5.126	7.3	19.5
<b>104107</b>	2000 <i>EB</i> <sub>45</sub>		9 1.4 198°63	0°3/1.2	18		<b>372326</b>	2009 <i>AN</i> <sub>46</sub>		9 1.4 71°51	0°7/31.5	18	
7 30	23 9.47	-7 24.6	1.812	2.682	13.6	20.2	7 30	23 1.87	-9 42.0	2.940	3.809	9.0	21.0
8 9	23 3.55	-7 45.2	1.739	2.680	10.0	20.0	8 9	22 57.27	-10 4.8	2.878	3.820	6.5	20.8
8 19	22 55.56	-8 15.4	1.689	2.677	5.9	19.7	8 19	22 51.55	-10 32.1	2.842	3.831	3.7	20.6
8 29	22 46.21	-8 51.0	1.666	2.674	1.5	19.4	8 29	22 45.14	-11 1.0	2.834	3.842	1.0	20.4
9 8	22 36.47	-9 26.5	1.670	2.671	3.1	19.6	9 8	22 38.61	-11 28.2	2.855	3.854	2.3	20.6
9 18	22 27.39	-9 56.9	1.702	2.667	7.5	19.8	9 18	22 32.50	-11 50.9	2.905	3.865	5.1	20.8
9 28	22 19.93	-10 17.9	1.759	2.662	11.5	20.1	9 28	22 27.31	-12 6.8	2.983	3.876	7.7	21.0
10 8	22 14.77	-10 27.0	1.838	2.658	14.9	20.3	10 8	22 23.44	-12 14.4	3.085	3.887	9.9	21.1
<b>72665</b>	2001 <i>FQ</i> <sub>49</sub>		9 1.4 225°39	4°6/7.6	18		<b>436236</b>	2010 <i>AW</i> <sub>68</sub>		9 1.4 91°07	6°1/26.8	18	
7 30	23 1.11	+11 11.9	2.633	3.415	12.4	19.4	7 30	23 7.80	-21 34.9	1.690	2.586	13.1	20.2
8 9	22 56.98	+10 53.0	2.541	3.409	10.2	19.2	8 9	23 2.40	-22 53.4	1.646	2.595	9.9	20.0
8 19	22 51.51	+10 15.8	2.471	3.403	7.8	19.1	8 19	22 54.86	-24 9.4	1.625	2.605	7.0	19.9
8 29	22 45.15	+9 21.0	2.427	3.397	5.6	18.9	8 29	22 46.02	-25 14.0	1.629	2.614	6.2	19.8
9 8	22 38.51	+8 11.6	2.410	3.391	4.6	18.9	9 8	22 36.97	-25 59.8	1.660	2.623	8.1	20.0
9 18	22 32.21	+6 51.9	2.421	3.385	5.7	18.9	9 18	22 28.80	-26 22.6	1.715	2.632	11.1	20.2
9 28	22 26.89	+5 27.8	2.461	3.378	8.0	19.1	9 28	22 22.47	-26 21.6	1.793	2.641	14.1	20.4
10 8	22 23.03	+4 5.2	2.526	3.371	10.5	19.2	10 8	22 18.57	-25 58.9	1.890	2.650	16.7	20.6
<b>393046</b>	2013 <i>AE</i> <sub>23</sub>		9 1.4 319°29	0°3/1.7	18		<b>436581</b>	2011 <i>HA</i> <sub>99</sub>		9 1.4 154°71	1°6/30.8	17	
7 30	23 5.30	-6 5.8	1.686	2.563	14.1	20.6	7 30	23 6.65	-9 41.0	1.937	2.814	12.6	22.1
8 9	23 0.69	-6 16.8	1.608	2.551	10.5	20.3	8 9	23 1.32	-10 34.7	1.874	2.820	9.1	21.9
8 19	22 53.97	-6 39.2	1.552	2.540	6.3	20.1	8 19	22 54.16	-11 36.7	1.835	2.825	5.3	21.7
8 29	22 45.82	-7 9.2	1.522	2.530	1.8	19.7	8 29	22 45.85	-12 41.1	1.822	2.830	1.8	21.5
9 8	22 37.21	-7 41.6	1.517	2.519	3.0	19.8	9 8	22 37.26	-13 41.3	1.838	2.834	3.8	21.6
9 18	22 29.18	-8 11.0	1.539	2.509	7.6	20.1	9 18	22 29.31	-14 31.7	1.882	2.838	7.6	21.9
9 28	22 22.74	-8 32.6	1.585	2.500	11.8	20.3	9 28	22 22.85	-15 8.2	1.951	2.842	11.2	22.1
10 8	22 18.61	-8 43.0	1.653	2.491	15.4	20.5	10 8	22 18.45	-15 28.9	2.042	2.845	14.2	22.3
<b>37361</b>	2001 <i>UW</i> <sub>46</sub>		9 1.4 264°78	0°0/1.2	18		<b>143729</b>	2003 <i>UX</i> <sub>209</sub>		9 1.4 256°92	3°9/29.7	18	
7 30	23 3.64	-5 39.1	2.045	2.914	12.3	19.4	7 30	23 10.73	-15 34.1	1.465	2.358	14.9	20.0
8 9	22 59.10	-6 14.5	1.971	2.911	9.1	19.2	8 9	23 4.94	-16 14.0	1.399	2.352	10.9	19.8
8 19	22 52.86	-7 0.7	1.920	2.908	5.4	19.0	8 19	22 56.58	-16 57.8	1.356	2.346	6.7	19.5
8 29	22 45.51	-7 53.6	1.896	2.905	1.4	18.7	8 29	22 46.51	-17 37.8	1.337	2.340	3.9	19.3
9 8	22 37.84	-8 47.8	1.900	2.902	2.7	18.8	9 8	22 35.97	-18 6.3	1.345	2.334	6.2	19.5
9 18	22 30.69	-9 37.9	1.932	2.898	6.6	19.0	9 18	22 26.31	-18 18.0	1.377	2.327	10.5	19.7
9 28	22 24.84	-10 19.2	1.989	2.895	10.2	19.3	9 28	22 18.72	-18 10.3	1.432	2.321	14.6	19.9
10 8	22 20.88	-10 48.4	2.069	2.892	13.3	19.5	10 8	22 13.97	-17 43.9	1.507	2.314	18.1	20.2
<b>211080</b>	2002 <i>EC</i> <sub>12</sub>		9 1.4 127°28	1°4/31.2	17		<b>126521</b>	2002 <i>CP</i> <sub>80</sub>		9 1.4 42°47	0°4/1.8	18	
7 30	23 10.15	-8 57.4	1.615	2.493	14.6	20.7	7 30	23 6.65	-6 18.3	2.004	2.871	12.7	19.3
8 9	23 4.08	-9 45.5	1.561	2.507	10.6	20.5	8 9	23 1.24	-6 20.3	1.938	2.876	9.3	19.2
8 19	22 55.84	-10 43.1	1.530	2.520	6.1	20.3	8 19	22 54.08	-6 30.9	1.895	2.881	5.6	18.9
8 29	22 46.26	-11 43.7	1.525	2.533	1.8	20.1	8 29	22 45.82	-6 47.2	1.878	2.886	1.6	18.7
9 8	22 36.46	-12 39.9	1.547	2.545	4.0	20.2	9 8	22 37.32	-7 5.1	1.889	2.891	2.6	18.8
9 18	22 27.55	-13 25.5	1.596	2.556	8.4	20.5	9 18	22 29.44	-7 21.0	1.928	2.897	6.5	19.0
9 28	22 20.50	-13 56.2	1.670	2.567	12.4	20.8	9 28	22 23.00	-7 31.4	1.993	2.902	10.0	19.3
10 8	22 15.94	-14 10.3	1.765	2.577	15.7	21.0	10 8	22 18.53	-7 33.7	2.081	2.908	13.1	19.5
<b>39608</b>	1993 <i>TQ</i> <sub>32</sub>		9 1.4 336°99	8°2/27.2	18		<b>308939</b>	2006 <i>SL</i> <sub>397</sub>		9 1.4 304°79	2°8/4.1	18	
7 30	23 10.53	-23 25.6	1.189	2.097	16.5	17.7	7 30	23 3.38	+1 38.3	1.923	2.770	13.9	21.4
8 9	23 5.28	-24 27.4	1.136	2.091	12.7	17.4	8 9	22 59.05	+1 26.7	1.843	2.763	10.8	21.2
8 19	22 56.95	-25 24.6	1.104	2.086	9.3	17.2	8 19	22 52.90	+0 58.7	1.785	2.757	7.3	21.0
8 29	22 46.60	-26 5.4	1.094	2.081	8.2	17.2	8 29	22 45.55	+0 16.3	1.751	2.751	3.8	20.8
9 8	22 35.80	-26 20.3	1.107	2.076	10.4	17.3	9 8	22 37.80	-0 36.0	1.745	2.745	3.2	20.7
9 18	22 26.21	-26 5.1	1.142	2.072	14.2	17.5	9 18	22 30.55	-1 32.8	1.765	2.739	6.5	20.9
9 28	22 19.21	-25 20.4	1.197	2.069	18.0	17.7	9 28	22 24.66	-2 27.7	1.812	2.733	10.2	21.1
10 8	22 15.59	-24 11.1	1.269	2.066	21.4	17.9	10 8	22 20.75	-3 15.5	1.881	2.727	13.5	21.3
<b>187845</b>	1999 <i>XW</i> <sub>109</sub>		9 1.4 321°09	3°8/28.7	18		<b>515645</b>	2014 <i>NZ</i> <sub>27</sub>		9 1.4 340°73	0°9/31.4	18	
7 30	23 2.53	-15 34.9	1.790	2.687	12.4	19.8	7 30	23 0.55	-6 57.4	2.013	2.892	12.1	21.1
8 9	22 58.66	-16 34.6	1.712	2.667	9.1	19.5	8 9	22 56.89	-8 0.8	1.941	2.887	8.8	20.8
8 19	22 52.78	-17 39.4	1.657	2.648	5.7	19.3	8 19	22 51.58	-9 15.5	1.892	2.883	5.1	20.6
8 29	22 45.53	-18 42.4	1.628	2.629	3.8	19.1	8 29	22 45.20	-10 36.1	1.871	2.879	1.3	20.3
9 8	22 37.79	-19 36.1	1.626	2.610	5.9	19.2	9 8	22 38.50	-11 55.6	1.877	2.876	3.3	20.5
9 18	22 30.57	-20 14.5	1.648	2.592	9.6	19.4	9 18	22 32.28	-13 7.7	1.910	2.872	7.1	20.7
9 28	22 24.84	-20 33.8	1.695	2.575	13.2	19.6	9 28	22 27.32	-14 6.9	1.969	2.869	10.6	20.9
10 8	22 21.30	-20 32.9	1.761	2.558	16.3	19.7	10 8	22 24.19	-14 50.0	2.051	2.867	13.7	21.1
<b>320273</b>	2007 <i>RR</i> <sub>68</sub>		9 1.4 48°06	2°1/31.1	17		<b>412710</b>	2014 <i>OY</i> <sub>295</sub>		9 1.4 302°92	1°7/30.8	17	
7 30	23 9.8												



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>138047</b>	2000 <i>DS</i> <sub>30</sub>		9 1.4 102°02'	1.4/ 2.7 18			<b>82378</b>	2001 <i>MB</i> <sub>17</sub>		9 1.4 126°27'	2.9/29.6 18		
7 30	23 6.87	- 2 30.8	1.981	2.836	13.3	20.3	7 30	23 5.28	-13 53.1	1.923	2.810	12.2	19.7
8 9	23 1.39	- 2 40.1	1.918	2.847	10.0	20.1	8 9	23 0.38	-14 47.2	1.861	2.812	8.8	19.5
8 19	22 54.16	- 3 1.5	1.877	2.857	6.2	19.9	8 19	22 53.64	-15 45.9	1.822	2.813	5.3	19.3
8 29	22 45.84	- 3 32.0	1.863	2.868	2.4	19.7	8 29	22 45.74	-16 43.1	1.811	2.814	2.9	19.1
9 8	22 37.31	- 4 7.4	1.877	2.878	2.6	19.7	9 8	22 37.55	-17 32.4	1.827	2.815	4.9	19.3
9 18	22 29.41	- 4 42.9	1.918	2.889	6.3	20.0	9 18	22 30.00	-18 8.7	1.869	2.816	8.4	19.5
9 28	22 22.97	- 5 14.0	1.986	2.899	9.9	20.2	9 28	22 23.93	-18 28.9	1.936	2.817	11.7	19.7
10 8	22 18.52	- 5 37.1	2.077	2.909	12.9	20.5	10 8	22 19.92	-18 32.2	2.025	2.818	14.6	19.9
<b>447246</b>	2005 <i>UX</i> <sub>213</sub>		9 1.4 280°80'	8.7/22.1 18			<b>161320</b>	2003 <i>QE</i> <sub>33</sub>		9 1.4 16°75'	8.2/ 6.2 18		
7 30	23 8.81	-33 42.7	2.218	3.091	11.4	21.1	7 30	23 9.39	+ 7 2.2	1.291	2.131	19.8	18.4
8 9	23 3.13	-35 0.8	2.153	3.069	9.7	20.9	8 9	23 4.10	+ 8 31.1	1.233	2.137	16.3	18.2
8 19	22 55.37	-36 9.4	2.111	3.047	8.7	20.8	8 19	22 56.15	+ 9 37.4	1.193	2.144	12.5	18.0
8 29	22 46.19	-37 0.4	2.095	3.025	9.0	20.8	8 29	22 46.43	+10 17.7	1.176	2.152	9.3	17.8
9 8	22 36.58	-37 27.8	2.103	3.002	10.4	20.9	9 8	22 36.24	+10 32.1	1.181	2.162	8.2	17.8
9 18	22 27.57	-37 28.5	2.135	2.980	12.4	21.0	9 18	22 26.98	+10 24.2	1.210	2.172	10.2	18.0
9 28	22 20.15	-37 2.7	2.189	2.957	14.5	21.1	9 28	22 19.91	+10 1.4	1.261	2.184	13.5	18.2
10 8	22 15.02	-36 13.4	2.260	2.934	16.5	21.2	10 8	22 15.81	+ 9 32.5	1.332	2.197	16.8	18.4
<b>355839</b>	2008 <i>UX</i> <sub>47</sub>		9 1.4 354°17'	9.2/ 9.8 18			<b>91853</b>	1999 <i>UK</i> <sub>8</sub>		9 1.4 341°03'	4.3/28.3 18		
7 30	23 2.80	+15 32.3	1.545	2.337	19.2	19.6	7 30	23 5.98	-19 26.5	2.052	2.942	11.4	18.8
8 9	22 59.08	+16 7.3	1.471	2.334	16.5	19.4	8 9	23 0.82	-20 10.0	1.990	2.940	8.5	18.6
8 19	22 53.13	+16 13.0	1.414	2.332	13.5	19.2	8 19	22 53.87	-20 52.9	1.953	2.937	5.6	18.4
8 29	22 45.64	+15 46.6	1.378	2.330	10.7	19.0	8 29	22 45.80	-21 29.3	1.942	2.935	4.3	18.4
9 8	22 37.64	+14 49.9	1.363	2.329	9.2	18.9	9 8	22 37.47	-21 53.9	1.957	2.933	6.0	18.5
9 18	22 30.26	+13 28.6	1.373	2.329	10.0	19.0	9 18	22 29.77	-22 3.2	2.000	2.932	8.9	18.6
9 28	22 24.59	+11 52.5	1.406	2.329	12.4	19.1	9 28	22 23.54	-21 55.7	2.066	2.930	11.8	18.8
10 8	22 21.39	+10 12.7	1.461	2.329	15.4	19.3	10 8	22 19.33	-21 31.8	2.154	2.929	14.4	19.0
<b>299175</b>	2005 <i>GT</i> <sub>60</sub>		9 1.4 52°18'	6.9/ 8.7 18			<b>291269</b>	2006 <i>BB</i> <sub>88</sub>		9 1.4 91°90'	1.9/30.6 17		
7 30	23 3.14	+13 2.9	1.756	2.552	17.1	20.0	7 30	23 6.58	-10 4.8	1.769	2.651	13.3	21.2
8 9	22 58.92	+13 8.0	1.693	2.565	14.3	19.8	8 9	23 1.30	-11 5.4	1.721	2.669	9.6	21.0
8 19	22 52.82	+12 47.1	1.649	2.578	11.1	19.6	8 19	22 54.14	-12 13.7	1.696	2.687	5.5	20.8
8 29	22 45.52	+12 0.3	1.626	2.592	8.3	19.5	8 29	22 45.86	-13 23.1	1.698	2.704	2.1	20.7
9 8	22 37.94	+10 51.3	1.629	2.606	6.9	19.5	9 8	22 37.41	-14 26.3	1.727	2.722	4.2	20.8
9 18	22 31.04	+ 9 26.9	1.657	2.620	7.9	19.5	9 18	22 29.76	-15 17.7	1.783	2.739	8.0	21.1
9 28	22 25.67	+ 7 55.6	1.711	2.634	10.5	19.7	9 28	22 23.73	-15 53.2	1.864	2.755	11.6	21.4
10 8	22 22.43	+ 6 26.2	1.788	2.648	13.4	20.0	10 8	22 19.88	-16 11.6	1.967	2.772	14.6	21.6
<b>169097</b>	2001 <i>KT</i> <sub>53</sub>		9 1.4 133°49'	0.7/ 2.1 16			<b>472520</b>	2015 <i>CL</i> <sub>44</sub>		9 1.4 77°44'	0.5/ 1.8 17		
7 30	23 4.97	- 3 6.9	2.163	3.019	12.3	21.0	7 30	23 5.46	- 2 57.6	1.506	2.379	15.7	20.8
8 9	22 59.90	- 3 46.5	2.098	3.029	9.1	20.8	8 9	23 0.77	- 3 52.0	1.453	2.394	11.6	20.6
8 19	22 53.25	- 4 38.0	2.057	3.040	5.5	20.6	8 19	22 53.96	- 5 3.3	1.421	2.408	7.0	20.4
8 29	22 45.62	- 5 37.5	2.042	3.049	1.8	20.4	8 29	22 45.83	- 6 25.2	1.415	2.423	2.0	20.1
9 8	22 37.76	- 6 39.5	2.057	3.059	2.4	20.5	9 8	22 37.47	- 7 48.9	1.435	2.437	3.1	20.2
9 18	22 30.47	- 7 38.8	2.099	3.067	6.1	20.7	9 18	22 29.95	- 9 6.3	1.481	2.452	7.8	20.6
9 28	22 24.46	- 8 30.4	2.169	3.076	9.5	20.9	9 28	22 24.24	-10 10.2	1.552	2.466	12.1	20.8
10 8	22 20.25	- 9 10.9	2.262	3.084	12.4	21.2	10 8	22 20.93	-10 56.7	1.644	2.480	15.6	21.1
<b>400685</b>	2009 <i>QN</i> <sub>15</sub>		9 1.4 41°90'	1.9/30.8 18			<b>220686</b>	2004 <i>RQ</i> <sub>246</sub>		9 1.4 334°31'	3.8/ 5.7 18		
7 30	23 7.42	-13 2.1	1.906	2.789	12.5	20.6	7 30	23 0.07	+ 6 21.2	1.963	2.793	14.4	20.1
8 9	23 1.79	-13 16.4	1.853	2.801	9.0	20.4	8 9	22 56.62	+ 5 54.0	1.880	2.786	11.4	19.9
8 19	22 54.38	-13 34.3	1.823	2.814	5.3	20.2	8 19	22 51.48	+ 5 5.8	1.818	2.779	8.2	19.7
8 29	22 45.90	-13 51.3	1.820	2.827	2.1	20.0	8 29	22 45.21	+ 3 58.6	1.781	2.772	5.0	19.5
9 8	22 37.28	-14 2.9	1.845	2.840	3.9	20.2	9 8	22 38.58	+ 2 37.0	1.770	2.766	3.9	19.4
9 18	22 29.43	-14 5.8	1.897	2.854	7.5	20.4	9 18	22 32.39	+ 1 7.9	1.786	2.760	6.4	19.6
9 28	22 23.15	-13 58.1	1.974	2.868	10.9	20.6	9 28	22 27.47	+ 0 21.2	1.829	2.755	9.8	19.7
10 8	22 18.96	-13 39.2	2.073	2.882	13.8	20.9	10 8	22 24.42	- 1 43.0	1.895	2.750	13.0	19.9
<b>312420</b>	2008 <i>GU</i> <sub>26</sub>		9 1.4 50°23'	8.7/22.7 18			<b>366798</b>	2004 <i>WQ</i> <sub>2</sub>		9 1.4 337°94'	8.1/26.9 18		
7 30	23 5.57	-30 47.7	1.889	2.779	12.3	19.5	7 30	23 5.66	-20 44.5	1.026	1.948	17.3	20.2
8 9	23 0.68	-32 28.9	1.863	2.794	10.1	19.4	8 9	23 2.08	-22 5.0	0.973	1.937	13.1	19.9
8 19	22 53.81	-33 58.9	1.860	2.809	8.8	19.4	8 19	22 55.28	-23 26.1	0.939	1.927	9.4	19.7
8 29	22 45.76	-35 9.1	1.882	2.825	9.0	19.4	8 29	22 46.26	-24 34.0	0.927	1.919	8.2	19.6
9 8	22 37.56	-35 53.4	1.929	2.841	10.5	19.6	9 8	22 36.64	-25 16.3	0.935	1.911	10.8	19.7
9 18	22 30.22	-36 9.5	1.999	2.857	12.5	19.7	9 18	22 28.15	-25 25.7	0.965	1.904	15.1	20.0
9 28	22 24.62	-35 58.5	2.089	2.874	14.6	19.9	9 28	22 22.33	-25 1.0	1.012	1.899	19.4	20.2
10 8	22 21.29	-35 24.0	2.196	2.890	16.4	20.1	10 8	22 20.01	-24 6.3	1.075	1.894	23.1	20.4
<b>300789</b>	2007 <i>VN</i> <sub>315</sub>		9 1.4 2°52'	3.0/ 4.3 18			<b>246253</b>	2007 <i>TF</i> <sub>7</sub>		9 1.4 354°86'	3.0/ 3.2 18		
7 30	23 4.20	+ 2 18.5	1.906	2.749	14.2	21.0	7 30	23 3.20	- 1 32.1	0.972	1.871	20.2	19.3
8 9	22 59.61	+ 2 9.1	1.832	2.749	11.0	20.8	8 9	23 0.17	- 1 19.4	0.914	1.865	15.5	19.0
8 19	22 53.22	+ 1 42.8	1.779	2.749	7.5	20.6	8 19	22 54.12	- 1 29.3	0.873	1.861	10.1	18.7
8 29	22 45.64	+ 1 1.8	1.751	2.749	4.0	20.4	8 29	22 45.96	- 1 59.0	0.852	1.857	4.5	18.4
9 8	22 37.71	+ 0 10.3	1.750	2.749	3.4	20.3	9 8	22 37.19	- 2 41.8	0.853	1.856	4.3	18.4
9 18	22 30.34	+ 0 46.0	1.776	2.749	6.5	20.5	9 18	22 29.43	- 3 28.4	0.875	1.855	9.8	18.7
9 28	22 24.36	- 1 40.8	1.828	2.749	10.1	20.8	9 28	22 24.14	- 4 9.4	0.917	1.857	15.3	19.0
10 8	22 20.39	- 2 28.9	1.904	2.750	13.3	21.0	10 8	22 22.20	- 4 37.3	0.976	1.859	20.0	19.3
<b>195288</b>	2002 <i>ET</i> <sub>82</sub>		9 1.4 277°57'</										

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9 1.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>319937</b>	2006 YB <sub>53</sub>	9 1.4 281°26	0°7/31.6	18			<b>131753</b>	2001 YR <sub>154</sub>	9 1.4 345°71	6°3/28.8	18		
7 30	23 1.74	- 6 40.3	2.149	3.022	11.7	21.1	7 30	23 8.45	-18 47.1	1.031	1.948	17.7	18.3
8 9	22 57.73	- 7 40.0	2.068	3.012	8.5	20.9	8 9	23 4.06	-19 32.3	0.978	1.941	13.2	18.1
8 19	22 52.10	- 8 50.9	2.012	3.001	5.0	20.6	8 19	22 56.41	-20 18.4	0.944	1.935	8.7	17.8
8 29	22 45.38	-10 8.0	1.982	2.991	1.3	20.3	8 29	22 46.59	-20 54.4	0.930	1.929	6.3	17.7
9 8	22 38.31	-11 25.1	1.981	2.980	3.0	20.5	9 8	22 36.23	-21 10.1	0.939	1.925	8.9	17.8
9 18	22 31.65	-12 36.0	2.008	2.969	6.8	20.7	9 18	22 27.10	-21 0.0	0.969	1.921	13.5	18.0
9 28	22 26.19	-13 35.3	2.060	2.959	10.3	20.9	9 28	22 20.68	-20 23.2	1.019	1.919	18.1	18.3
10 8	22 22.49	-14 19.8	2.136	2.948	13.3	21.1	10 8	22 17.79	-19 23.1	1.085	1.918	22.1	18.6
<b>120688</b>	1997 CM <sub>23</sub>	9 1.4 57°45	1°7/ 2.5	18			<b>427580</b>	2003 QC <sub>29</sub>	9 1.4 41°41	0°5/ 1.9	16		
7 30	23 9.94	- 3 17.8	1.155	2.038	18.8	19.0	7 30	23 9.36	- 0 59.7	1.081	1.963	19.9	20.3
8 9	23 4.65	- 3 19.6	1.101	2.045	14.1	18.8	8 9	23 3.56	- 2 31.5	1.071	2.016	14.4	20.2
8 19	22 56.51	- 3 39.6	1.066	2.053	8.8	18.5	8 19	22 55.42	- 4 22.1	1.080	2.068	8.4	20.0
8 29	22 46.55	- 4 13.5	1.054	2.060	3.2	18.2	8 29	22 46.18	- 6 19.8	1.114	2.122	2.3	19.8
9 8	22 36.19	- 4 54.2	1.065	2.068	3.7	18.3	9 8	22 37.27	- 8 11.6	1.172	2.175	3.6	20.1
9 18	22 26.95	- 5 33.9	1.101	2.076	9.2	18.6	9 18	22 29.90	- 9 47.3	1.255	2.227	8.8	20.5
9 28	22 20.12	- 6 5.4	1.159	2.084	14.2	18.9	9 28	22 24.94	-11 0.5	1.362	2.280	13.1	20.9
10 8	22 16.44	- 6 24.1	1.236	2.093	18.4	19.2	10 8	22 22.75	-11 49.5	1.489	2.332	16.6	21.3
<b>351838</b>	2006 QQ <sub>103</sub>	9 1.4 75°45	0°6/ 1.9	18			<b>369932</b>	2013 EH <sub>110</sub>	9 1.4 80°72	0°8/ 2.4	18		
7 30	23 5.85	- 4 48.4	1.904	2.771	13.2	20.9	7 30	23 1.89	- 1 45.1	2.187	3.043	12.1	20.8
8 9	23 0.79	- 5 4.9	1.836	2.773	9.8	20.7	8 9	22 57.68	- 2 37.5	2.123	3.054	9.0	20.7
8 19	22 53.90	- 5 32.4	1.790	2.775	5.9	20.4	8 19	22 51.99	- 3 43.1	2.083	3.065	5.5	20.5
8 29	22 45.85	- 6 7.6	1.770	2.778	1.8	20.2	8 29	22 45.37	- 4 57.6	2.069	3.076	1.9	20.2
9 8	22 37.49	- 6 45.5	1.778	2.780	2.7	20.3	9 8	22 38.55	- 6 15.3	2.084	3.087	2.3	20.3
9 18	22 29.74	- 7 21.1	1.813	2.782	6.7	20.5	9 18	22 32.24	- 7 30.3	2.128	3.097	5.9	20.6
9 28	22 23.46	- 7 50.0	1.874	2.785	10.5	20.8	9 28	22 27.14	- 8 37.0	2.198	3.108	9.2	20.8
10 8	22 19.22	- 8 8.9	1.957	2.787	13.7	21.0	10 8	22 23.72	- 9 31.6	2.292	3.119	12.0	21.0
<b>66764</b>	1999 TD <sub>190</sub>	9 1.4 57°96	3°1/ 3.8	18			<b>216584</b>	2002 HQ <sub>3</sub>	9 1.4 79°06	5°7/26.2	18		
7 30	23 8.40	+ 0 13.0	1.711	2.562	15.2	18.5	7 30	23 5.89	-24 15.5	2.196	3.084	10.9	19.5
8 9	23 2.82	+ 0 31.0	1.644	2.566	11.7	18.2	8 9	23 0.63	-25 21.3	2.153	3.096	8.3	19.4
8 19	22 55.18	+ 0 34.0	1.598	2.571	7.8	18.0	8 19	22 53.71	-26 22.5	2.136	3.108	6.3	19.3
8 29	22 46.18	+ 0 23.4	1.576	2.576	4.1	17.8	8 29	22 45.81	-27 12.7	2.145	3.120	5.8	19.3
9 8	22 36.85	+ 0 2.7	1.582	2.581	3.7	17.8	9 8	22 37.76	-27 46.7	2.180	3.132	7.3	19.4
9 18	22 28.22	+ 0 23.4	1.614	2.586	7.1	18.0	9 18	22 30.41	-28 1.7	2.242	3.144	9.6	19.6
9 28	22 21.26	- 0 49.5	1.671	2.591	11.0	18.3	9 28	22 24.48	-27 57.0	2.327	3.156	11.9	19.8
10 8	22 16.62	- 1 11.0	1.751	2.596	14.4	18.5	10 8	22 20.50	-27 34.3	2.433	3.168	14.0	19.9
<b>130074</b>	1999 VG <sub>205</sub>	9 1.4 67°08	1°8/ 3.1	18			<b>515860</b>	2015 OD <sub>85</sub>	9 1.4 320°51	5°8/26.5	18		
7 30	23 5.76	- 0 44.4	1.650	2.510	15.2	19.5	7 30	23 4.60	-22 2.0	1.909	2.805	11.8	20.6
8 9	23 0.80	- 1 11.0	1.598	2.529	11.4	19.3	8 9	23 0.06	-23 11.7	1.847	2.797	9.0	20.4
8 19	22 53.90	- 1 54.1	1.568	2.548	7.2	19.1	8 19	22 53.57	-24 19.8	1.809	2.788	6.5	20.2
8 29	22 45.83	- 2 49.4	1.563	2.567	3.0	18.9	8 29	22 45.82	-25 18.8	1.796	2.780	5.9	20.2
9 8	22 37.58	- 3 50.5	1.584	2.586	2.9	19.0	9 8	22 37.71	-26 1.7	1.810	2.772	7.6	20.2
9 18	22 30.14	- 4 50.7	1.632	2.605	7.0	19.3	9 18	22 30.23	-26 24.3	1.849	2.765	10.5	20.4
9 28	22 24.37	- 5 43.8	1.705	2.624	10.8	19.5	9 28	22 24.28	-26 24.8	1.910	2.757	13.4	20.6
10 8	22 20.83	- 6 25.2	1.801	2.643	14.2	19.8	10 8	22 20.49	-26 4.3	1.991	2.750	16.0	20.8
<b>515998</b>	2015 RW <sub>233</sub>	9 1.4 317°59	0°8/31.4	18			<b>208658</b>	2002 FJ <sub>17</sub>	9 1.4 93°42	3°8/29.4	17		
7 30	23 1.08	- 6 58.3	2.257	3.130	11.2	21.5	7 30	23 10.94	-13 42.1	1.454	2.345	15.1	20.2
8 9	22 57.13	- 8 0.1	2.185	3.128	8.1	21.3	8 9	23 4.76	-14 57.0	1.417	2.369	10.9	20.0
8 19	22 51.68	- 9 11.8	2.136	3.126	4.7	21.1	8 19	22 56.29	-16 16.7	1.402	2.392	6.5	19.8
8 29	22 45.27	-10 28.6	2.116	3.124	1.2	20.9	8 29	22 46.49	-17 31.8	1.413	2.415	3.8	19.7
9 8	22 38.58	-11 44.5	2.123	3.122	3.0	21.0	9 8	22 36.60	-18 33.5	1.450	2.438	6.1	19.9
9 18	22 32.33	-12 53.7	2.159	3.120	6.5	21.2	9 18	22 27.83	-19 16.1	1.513	2.460	10.0	20.2
9 28	22 27.22	-13 51.5	2.222	3.118	9.8	21.4	9 28	22 21.16	-19 37.0	1.600	2.481	13.7	20.5
10 8	22 23.76	-14 34.9	2.307	3.116	12.5	21.6	10 8	22 17.16	-19 36.9	1.706	2.502	16.8	20.7
<b>335096</b>	2004 TX <sub>85</sub>	9 1.4 355°43	1°6/ 2.8	18			<b>317119</b>	2001 TJ <sub>255</sub>	9 1.4 237°69	2°5/29.8	18		
7 30	23 4.15	- 1 24.6	1.547	2.417	15.6	20.7	7 30	23 4.34	-12 56.5	2.108	2.992	11.4	21.1
8 9	22 59.94	- 1 52.7	1.479	2.416	11.8	20.5	8 9	22 59.64	-13 52.3	2.038	2.988	8.3	20.9
8 19	22 53.58	- 2 38.8	1.432	2.415	7.4	20.2	8 19	22 53.25	-14 53.6	1.992	2.983	4.9	20.7
8 29	22 45.79	- 3 38.6	1.408	2.414	2.9	20.0	8 29	22 45.74	-15 54.7	1.974	2.978	2.5	20.5
9 8	22 37.60	- 4 45.5	1.411	2.414	3.0	20.0	9 8	22 37.91	-16 49.6	1.983	2.973	4.4	20.6
9 18	22 30.08	- 5 51.7	1.440	2.414	7.6	20.2	9 18	22 30.60	-17 33.2	2.020	2.968	7.8	20.8
9 28	22 24.27	- 6 50.0	1.493	2.414	11.9	20.5	9 28	22 24.60	-18 2.1	2.082	2.963	11.0	21.0
10 8	22 20.84	- 7 35.0	1.567	2.414	15.7	20.7	10 8	22 20.48	-18 14.8	2.166	2.957	13.8	21.2
<b>273466</b>	2006 XF <sub>52</sub>	9 1.4 3°32	12°7/22.9	17			<b>352429</b>	2007 YC <sub>73</sub>	9 1.4 116°71	2°4/ 4.2	18		
7 30	22 56.58	-27 3.8	0.796	1.738	18.6	18.5	7 30	23 6.04	+ 1 37.8	2.493	3.321	11.7	21.5
8 9	22 55.81	-29 5.4	0.767	1.734	15.1	18.3	8 9	23 0.50	+ 1 32.8	2.428	3.338	9.0	21.4
8 19	22 51.65	-30 54.2	0.755	1.734	12.9	18.1	8 19	22 53.57	+ 1 15.6	2.387	3.354	6.0	21.2
8 29	22 45.31	-32 12.2	0.761	1.736	13.2	18.2	8 29	22 45.79	+ 0 48.1	2.373	3.370	3.2	21.0
9 8	22 38.61	-32 46.6	0.785	1.740	15.7	18.3	9 8	22 37.85	+ 0 13.4	2.388	3.386	2.8	21.0
9 18	22 33.31	-32 33.3	0.825	1.747	19.1	18.6	9 18	22 30.43	- 0 24.6	2.431	3.401	5.3	21.2
9 28	22 30.81	-31 36.0	0.881	1.757	22.5	18.8	9 28	22 24.16	- 1 1.9	2.503	3.416	8.1	21.4
10 8	22 31.74	-30 3.1	0.950	1.769	25.5	19.1	10 8	22 19.51	- 1 34.8	2.599	3.430	10.7	21.6
<b>264972</b>	2003 BY <sub>2</sub>	9 1.4 49°55	2°5/ 2.1	15			<b>511049</b>	2013 RZ <sub>94</sub>	9 1.4 302°88	1°9/31.0	18		
7 30	23 26.24	- 8 28.7	0.947										

EPHEMERIDES

9 1.4

9 1.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>14645</b>	1998 XR <sub>9</sub>	9	1.4 101°18	3°6/ 4.6 18			<b>514236</b>	2015 OW <sub>87</sub>	9	1.5 193°47	1°6/ 3.3 18		
7 30	23 6.70	+ 3 30.1	1.632	2.475	16.2	17.9	7 30	23 2.36	+ 0 33.5	2.230	3.075	12.3	21.4
8 9	23 1.65	+ 3 17.1	1.570	2.486	12.6	17.7	8 9	22 58.11	- 0 12.3	2.152	3.074	9.4	21.2
8 19	22 54.53	+ 2 43.7	1.528	2.496	8.6	17.5	8 19	22 52.32	- 1 13.3	2.097	3.074	6.0	21.0
8 29	22 46.08	+ 1 52.4	1.510	2.507	4.8	17.3	8 29	22 45.53	- 2 26.0	2.069	3.072	2.6	20.8
9 8	22 37.33	+ 0 48.8	1.518	2.517	3.9	17.3	9 8	22 38.45	- 3 45.2	2.069	3.071	2.4	20.8
9 18	22 29.33	- 0 20.0	1.553	2.527	7.2	17.5	9 18	22 31.81	- 5 4.6	2.098	3.070	5.8	21.0
9 28	22 23.03	- 1 26.3	1.614	2.537	11.1	17.7	9 28	22 26.34	- 6 18.4	2.154	3.068	9.2	21.2
10 8	22 19.07	- 2 23.7	1.697	2.546	14.5	18.0	10 8	22 22.55	- 7 21.8	2.234	3.066	12.1	21.4
<b>155808</b>	2000 VF <sub>54</sub>	9	1.5 310°81	4°7/28.4 18			<b>209094</b>	2003 SA <sub>42</sub>	9	1.5 314°72	4°5/29.7 18		
7 30	23 7.30	-19 38.2	1.840	2.732	12.4	19.7	7 30	23 12.70	-19 4.7	1.546	2.437	14.4	19.4
8 9	23 2.18	-20 16.7	1.761	2.711	9.3	19.5	8 9	23 6.47	-19 15.0	1.470	2.420	10.8	19.1
8 19	22 54.93	-20 55.1	1.706	2.691	6.2	19.3	8 19	22 57.61	-19 23.6	1.417	2.404	6.9	18.9
8 29	22 46.22	-21 26.8	1.677	2.671	4.8	19.2	8 29	22 46.96	-19 23.8	1.388	2.388	4.5	18.7
9 8	22 37.03	-21 45.5	1.674	2.652	6.6	19.2	9 8	22 35.77	-19 10.1	1.386	2.372	6.5	18.8
9 18	22 28.42	-21 47.1	1.697	2.633	9.9	19.4	9 18	22 25.40	-18 39.2	1.409	2.357	10.5	19.0
9 28	22 21.42	-21 29.7	1.743	2.614	13.3	19.6	9 28	22 17.08	-17 50.8	1.456	2.342	14.5	19.2
10 8	22 16.75	-20 54.1	1.810	2.595	16.4	19.7	10 8	22 11.62	-16 46.9	1.523	2.328	18.1	19.4
<b>176497</b>	2001 XZ <sub>257</sub>	9	1.5 210°65	15°6/13.5 17			<b>312606</b>	2009 PX <sub>14</sub>	9	1.5 11°91	3°2/ 4.4 18		
7 30	23 11.13	+25 1.5	1.371	2.101	24.0	19.5	7 30	23 7.02	+ 1 44.0	2.218	3.050	12.9	20.3
8 9	23 5.90	+26 42.0	1.299	2.098	21.8	19.3	8 9	23 1.51	+ 2 7.1	2.140	3.050	10.0	20.1
8 19	22 57.61	+27 47.5	1.241	2.095	19.4	19.2	8 19	22 54.33	+ 2 17.7	2.085	3.050	6.9	19.9
8 29	22 47.00	+28 9.4	1.199	2.091	17.2	19.0	8 29	22 46.07	+ 2 16.5	2.056	3.051	4.0	19.8
9 8	22 35.44	+27 43.6	1.175	2.087	15.8	18.9	9 8	22 37.49	+ 2 5.8	2.055	3.051	3.5	19.7
9 18	22 24.52	+26 32.4	1.172	2.082	15.7	18.9	9 18	22 29.40	+ 1 48.7	2.082	3.051	6.0	19.9
9 28	22 15.86	+24 45.5	1.189	2.077	17.0	19.0	9 28	22 22.58	+ 1 29.3	2.136	3.052	9.2	20.1
10 8	22 10.53	+22 38.2	1.225	2.071	19.2	19.1	10 8	22 17.59	+ 1 11.6	2.215	3.052	12.0	20.3
<b>98779</b>	2000 YJ <sub>86</sub>	9	1.5 272°98	2°1/30.5 18			<b>172927</b>	2005 GK <sub>157</sub>	9	1.5 3°85	1°0/31.7 18		
7 30	23 5.52	-10 28.8	1.829	2.712	12.9	20.1	7 30	23 6.28	- 9 11.8	1.668	2.552	13.9	19.8
8 9	23 0.88	-11 25.1	1.743	2.693	9.4	19.9	8 9	23 1.37	- 9 32.7	1.603	2.552	10.2	19.6
8 19	22 54.19	-12 31.5	1.682	2.673	5.5	19.6	8 19	22 54.40	-10 2.2	1.561	2.552	5.9	19.4
8 29	22 46.04	-13 41.6	1.646	2.653	2.2	19.4	8 29	22 46.10	-10 35.5	1.544	2.552	1.6	19.1
9 8	22 37.33	-14 48.2	1.638	2.632	4.4	19.5	9 8	22 37.46	-11 6.7	1.553	2.553	3.5	19.2
9 18	22 29.09	-15 44.3	1.656	2.612	8.6	19.7	9 18	22 29.53	-11 30.8	1.589	2.554	7.9	19.5
9 28	22 22.32	-16 24.9	1.700	2.591	12.5	19.9	9 28	22 23.28	-11 43.8	1.649	2.556	11.9	19.7
10 8	22 17.75	-16 47.3	1.764	2.570	15.9	20.0	10 8	22 19.33	-11 43.8	1.730	2.558	15.3	20.0
<b>249633</b>	1999 TT <sub>115</sub>	9	1.5 357°32	2°6/ 3.9 18			<b>221909</b>	2008 QY <sub>14</sub>	9	1.5 293°24	0°4/ 2.2 17		
7 30	23 2.05	+ 1 5.9	1.801	2.656	14.4	19.7	7 30	22 56.71	- 4 13.3	4.298	5.147	6.8	20.4
8 9	22 58.18	+ 0 53.6	1.728	2.654	11.1	19.5	8 9	22 53.37	- 4 38.2	4.214	5.142	5.0	20.3
8 19	22 52.48	+ 0 24.4	1.677	2.652	7.4	19.3	8 19	22 49.28	- 5 8.5	4.155	5.137	3.1	20.2
8 29	22 45.57	- 0 19.2	1.650	2.651	3.7	19.1	8 29	22 44.73	- 5 42.7	4.126	5.132	1.0	20.0
9 8	22 38.31	- 1 12.3	1.650	2.650	3.2	19.0	9 8	22 40.03	- 6 18.4	4.125	5.127	1.3	20.0
9 18	22 31.61	- 2 9.1	1.675	2.650	6.6	19.2	9 18	22 35.54	- 6 53.6	4.155	5.123	3.4	20.2
9 28	22 26.33	- 3 3.1	1.727	2.651	10.4	19.5	9 28	22 31.60	- 7 25.9	4.214	5.118	5.3	20.3
10 8	22 23.07	- 3 48.8	1.801	2.652	13.7	19.7	10 8	22 28.48	- 7 53.5	4.298	5.113	7.1	20.4
<b>514027</b>	2014 KR <sub>42</sub>	9	1.5 30°62	5°4/26.7 18			<b>509331</b>	2006 WC <sub>192</sub>	9	1.5 299°04	1°5/ 2.5 18		
7 30	23 0.96	-16 33.6	1.532	2.439	13.5	19.6	7 30	23 5.63	- 2 43.2	1.395	2.272	16.5	22.2
8 9	22 57.55	-18 33.8	1.496	2.456	9.8	19.5	8 9	23 1.55	- 2 59.1	1.308	2.249	12.6	21.9
8 19	22 52.12	-20 36.3	1.485	2.473	6.5	19.3	8 19	22 54.89	- 3 33.3	1.241	2.227	7.9	21.6
8 29	22 45.46	-22 30.2	1.499	2.491	5.5	19.3	8 29	22 46.32	- 4 22.7	1.198	2.205	2.9	21.2
9 8	22 38.60	-24 5.3	1.538	2.510	7.7	19.5	9 8	22 36.94	- 5 20.8	1.179	2.182	3.4	21.2
9 18	22 32.57	-25 15.1	1.603	2.530	11.0	19.7	9 18	22 28.07	- 6 19.6	1.186	2.160	8.8	21.4
9 28	22 28.24	-25 56.9	1.690	2.550	14.2	20.0	9 28	22 21.05	- 7 10.8	1.215	2.139	13.8	21.7
10 8	22 26.16	-26 11.8	1.795	2.571	16.8	20.2	10 8	22 16.80	- 7 48.3	1.264	2.117	18.3	21.9
<b>52821</b>	1998 RU <sub>4</sub>	9	1.5 271°06	6°1/28.4 18			<b>431335</b>	2006 XR <sub>45</sub>	9	1.5 223°12	4°1/28.9 18		
7 30	23 18.87	-23 26.9	1.806	2.681	13.4	19.4	7 30	23 10.11	-16 55.9	1.814	2.700	12.9	21.4
8 9	23 10.95	-23 56.5	1.715	2.653	10.4	19.2	8 9	23 4.20	-17 50.7	1.743	2.692	9.5	21.2
8 19	23 0.29	-24 21.6	1.648	2.624	7.4	18.9	8 19	22 56.11	-18 48.3	1.696	2.683	6.0	21.0
8 29	22 47.67	-24 34.3	1.608	2.594	6.1	18.8	8 29	22 46.57	-19 41.3	1.676	2.674	4.1	20.8
9 8	22 34.32	-24 27.7	1.595	2.564	7.8	18.8	9 8	22 36.59	-20 22.7	1.683	2.665	6.1	20.9
9 18	22 21.63	-23 58.5	1.610	2.533	11.3	18.9	9 18	22 27.27	-20 47.5	1.716	2.655	9.7	21.1
9 28	22 10.92	-23 6.8	1.649	2.501	14.9	19.1	9 28	22 19.65	-20 53.1	1.774	2.644	13.2	21.3
10 8	22 3.09	-21 56.0	1.709	2.469	18.2	19.3	10 8	22 14.41	-20 39.7	1.852	2.633	16.2	21.5
<b>169858</b>	2002 RG <sub>44</sub>	9	1.5 15°00	2°7/30.2 18			<b>302189</b>	2001 TE <sub>245</sub>	9	1.5 27°23	1°4/31.3 18		
7 30	23 6.74	-13 22.9	1.675	2.566	13.5	19.7	7 30	23 6.86	-10 32.5	1.773	2.656	13.3	20.9
8 9	23 1.70	-13 59.3	1.615	2.567	9.8	19.5	8 9	23 1.67	-10 53.5	1.711	2.659	9.7	20.7
8 19	22 54.57	-14 40.9	1.577	2.568	5.8	19.3	8 19	22 54.52	-11 21.2	1.672	2.663	5.6	20.5
8 29	22 46.11	-15 21.3	1.565	2.570	2.8	19.1	8 29	22 46.12	-11 50.8	1.658	2.666	1.7	20.2
9 8	22 37.36	-15 54.2	1.579	2.572	4.9	19.3	9 8	22 37.46	-12 17.0	1.672	2.670	3.7	20.4
9 18	22 29.36	-16 14.7	1.620	2.574	8.8	19.5	9 18	22 29.51	-12 35.2	1.712	2.675	7.7	20.7
9 28	22 23.08	-16 19.9	1.684	2.577	12.5	19.7	9 28	22 23.17	-12 42.3	1.777	2.679	11.5	20.9
10 8	22 19.13	-16 9.2	1.769	2.580	15.7	20.0	10 8	22 19.04	-12 36.8	1.864	2.684	14.7	21.1
<b>519669</b>	2012 YS <sub>10</sub>	9	1.5 289°51	0°3/ 1.7 18			<b>345399</b>	2006 BP <sub>208</sub>	9	1.5 131°97	2°8/ 4.2 18		
7 30	23 5.46	- 5 23.3											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>344185</b>	2001 <i>DE</i> <sub>106</sub>	9 1.5 247°63	1.2°/ 3.7 18				<b>423446</b>	2005 <i>SL</i> <sub>48</sub>	9 1.5 42°14	3°9/ 4.7 16			
7 30	22 58.38	- 0 43.5	4.779	5.606	6.5	20.7	7 30	23 4.26	+ 3 49.3	1.255	2.118	18.9	20.7
8 9	22 54.50	- 0 45.0	4.688	5.599	5.0	20.6	8 9	23 0.28	+ 3 29.7	1.206	2.133	14.7	20.5
8 19	22 49.92	- 0 52.1	4.622	5.592	3.3	20.5	8 19	22 53.90	+ 2 44.3	1.175	2.149	10.0	20.3
8 29	22 44.90	- 1 3.8	4.585	5.584	1.6	20.4	8 29	22 46.03	+ 1 36.9	1.166	2.165	5.4	20.1
9 8	22 39.75	- 1 18.7	4.578	5.577	1.4	20.3	9 8	22 37.90	+ 0 15.5	1.182	2.182	4.3	20.0
9 18	22 34.77	- 1 35.2	4.601	5.569	3.0	20.5	9 18	22 30.73	- 1 10.0	1.221	2.199	8.1	20.3
9 28	22 30.30	- 1 51.5	4.653	5.562	4.7	20.6	9 28	22 25.59	- 2 29.6	1.285	2.217	12.5	20.6
10 8	22 26.59	- 2 5.9	4.731	5.554	6.3	20.7	10 8	22 23.13	- 3 35.6	1.369	2.235	16.3	20.9
<b>171080</b>	2005 <i>EV</i> <sub>182</sub>	9 1.5 183°01	1°9/30.8 18				<b>63350</b>	2001 <i>FL</i> <sub>106</sub>	9 1.5 34°33	2°1/ 3.7 18			
7 30	23 7.30	-11 37.0	1.978	2.857	12.3	21.1	7 30	23 2.63	+ 0 19.6	2.003	2.854	13.3	18.6
8 9	23 1.87	-12 11.0	1.911	2.858	8.9	20.9	8 9	22 58.41	+ 0 2.7	1.937	2.861	10.1	18.4
8 19	22 54.60	-12 50.8	1.867	2.858	5.2	20.7	8 19	22 52.55	- 0 28.9	1.893	2.869	6.6	18.2
8 29	22 46.16	-13 31.4	1.851	2.857	2.0	20.5	8 29	22 45.67	- 1 12.4	1.876	2.877	3.1	18.0
9 8	22 37.42	-14 7.2	1.862	2.857	3.9	20.6	9 8	22 38.54	- 2 3.0	1.885	2.886	2.8	18.0
9 18	22 29.30	-14 33.8	1.900	2.856	7.6	20.8	9 18	22 31.97	- 2 55.6	1.921	2.895	6.0	18.2
9 28	22 22.65	-14 48.1	1.964	2.856	11.1	21.0	9 28	22 26.70	- 3 44.7	1.984	2.904	9.5	18.4
10 8	22 18.05	-14 48.6	2.050	2.855	14.1	21.2	10 8	22 23.28	- 4 25.8	2.070	2.914	12.5	18.6
<b>472614</b>	2015 <i>DP</i> <sub>165</sub>	9 1.5 182°25	1°8/31.1 17				<b>218295</b>	2003 <i>QG</i> <sub>12</sub>	9 1.5 304°68	1°7/31.3 17			
7 30	23 10.01	-11 9.4	1.701	2.581	13.8	21.9	7 30	23 13.13	-13 47.3	2.103	2.973	12.0	19.2
8 9	23 4.11	-11 38.7	1.635	2.582	10.1	21.7	8 9	23 6.35	-13 36.1	2.001	2.942	8.9	19.0
8 19	22 56.04	-12 14.8	1.592	2.582	5.9	21.4	8 19	22 57.44	-13 26.1	1.923	2.911	5.3	18.7
8 29	22 46.55	-12 52.3	1.575	2.582	2.1	21.2	8 29	22 47.01	-13 13.8	1.874	2.880	2.0	18.4
9 8	22 36.72	-13 25.0	1.585	2.581	4.1	21.3	9 8	22 35.97	-12 55.9	1.853	2.850	3.7	18.5
9 18	22 27.64	-13 47.8	1.622	2.581	8.4	21.6	9 18	22 25.34	-12 29.8	1.861	2.819	7.6	18.6
9 28	22 20.32	-13 57.4	1.683	2.580	12.3	21.8	9 28	22 16.14	-11 54.3	1.897	2.788	11.4	18.8
10 8	22 15.42	-13 52.4	1.766	2.579	15.7	22.0	10 8	22 9.14	-11 9.2	1.955	2.758	14.7	19.0
<b>475982</b>	2007 <i>PN</i> <sub>19</sub>	9 1.5 13°84	2°3/30.4 18				<b>272102</b>	2005 <i>GS</i> <sub>214</sub>	9 1.5 173°84	6°3/26.9 17			
7 30	22 59.12	- 8 3.8	1.164	2.074	16.7	19.7	7 30	23 10.31	-21 14.1	1.659	2.552	13.5	21.2
8 9	22 56.71	- 9 29.0	1.117	2.079	12.0	19.5	8 9	23 4.48	-22 38.4	1.606	2.555	10.2	21.0
8 19	22 51.87	-11 9.9	1.090	2.086	6.9	19.2	8 19	22 56.33	-24 1.5	1.577	2.556	7.3	20.9
8 29	22 45.48	-12 56.1	1.086	2.094	2.5	19.0	8 29	22 46.69	-25 13.8	1.573	2.558	6.4	20.8
9 8	22 38.76	-14 35.2	1.106	2.103	5.3	19.2	9 8	22 36.71	-26 6.8	1.595	2.559	8.3	20.9
9 18	22 32.95	-15 56.5	1.149	2.114	10.3	19.5	9 18	22 27.57	-26 35.6	1.642	2.559	11.5	21.1
9 28	22 29.15	-16 53.0	1.214	2.126	14.8	19.8	9 28	22 20.36	-26 38.9	1.712	2.559	14.7	21.3
10 8	22 28.00	-17 22.6	1.298	2.140	18.6	20.1	10 8	22 15.73	-26 18.9	1.801	2.558	17.5	21.5
<b>351452</b>	2005 <i>JW</i> <sub>160</sub>	9 1.5 154°02	3°1/29.2 18				<b>374242</b>	2005 <i>GN</i> <sub>108</sub>	9 1.5 25°69	2°4/ 3.4 17			
7 30	23 5.53	-14 34.3	2.091	2.976	11.5	21.0	7 30	23 3.13	+ 0 36.3	1.170	2.051	18.8	21.0
8 9	23 0.50	-15 35.7	2.030	2.980	8.3	20.8	8 9	22 59.68	+ 0 2.6	1.116	2.057	14.3	20.7
8 19	22 53.76	-16 41.0	1.994	2.983	5.0	20.6	8 19	22 53.68	- 0 55.9	1.081	2.064	9.2	20.5
8 29	22 45.94	-17 44.0	1.985	2.987	3.1	20.5	8 29	22 46.02	- 2 14.0	1.067	2.072	3.9	20.2
9 8	22 37.87	-18 38.5	2.004	2.990	4.9	20.6	9 8	22 37.96	- 3 42.3	1.077	2.080	3.6	20.2
9 18	22 30.38	-19 19.8	2.051	2.993	8.1	20.8	9 18	22 30.85	- 5 9.7	1.111	2.089	8.6	20.5
9 28	22 24.26	-19 44.9	2.122	2.995	11.2	21.0	9 28	22 25.85	- 6 26.1	1.167	2.099	13.5	20.8
10 8	22 20.08	-19 53.1	2.216	2.998	13.9	21.2	10 8	22 23.67	- 7 24.6	1.244	2.109	17.7	21.1
<b>446573</b>	2014 <i>OY</i> <sub>130</sub>	9 1.5 15°66	3°0/29.4 18				<b>348402</b>	2005 <i>JP</i> <sub>34</sub>	9 1.5 274°74	4°0/10.1 17			
7 30	22 58.59	- 9 56.1	1.439	2.344	14.4	19.5	7 30	22 56.68	+15 50.7	4.447	5.176	8.4	20.5
8 9	22 55.95	-11 36.6	1.392	2.352	10.3	19.2	8 9	22 53.39	+15 45.3	4.351	5.172	7.2	20.4
8 19	22 51.27	-13 28.4	1.366	2.361	6.0	19.0	8 19	22 49.34	+15 27.9	4.278	5.168	5.9	20.3
8 29	22 45.31	-15 21.6	1.366	2.372	3.0	18.9	8 29	22 44.82	+14 58.9	4.230	5.165	4.7	20.2
9 8	22 39.08	-17 5.1	1.391	2.383	5.6	19.1	9 8	22 40.15	+14 19.5	4.209	5.161	4.0	20.2
9 18	22 33.60	-18 30.2	1.442	2.396	9.7	19.3	9 18	22 35.68	+13 31.5	4.216	5.158	4.3	20.2
9 28	22 29.79	-19 31.2	1.515	2.410	13.5	19.6	9 28	22 31.75	+12 37.8	4.251	5.154	5.3	20.2
10 8	22 28.24	-20 6.4	1.608	2.425	16.8	19.8	10 8	22 28.65	+11 41.3	4.313	5.151	6.6	20.3
<b>167516</b>	2003 <i>YO</i> <sub>138</sub>	9 1.5 299°58	4°2/28.3 18				<b>115313</b>	2003 <i>SX</i> <sub>215</sub>	9 1.5 336°20	1°1/31.4 18			
7 30	23 3.63	-14 46.4	1.716	2.612	12.9	19.4	7 30	23 2.21	- 8 56.8	1.969	2.851	12.2	19.2
8 9	22 59.73	-16 10.7	1.630	2.586	9.5	19.2	8 9	22 58.25	- 9 34.6	1.895	2.843	8.9	19.0
8 19	22 53.66	-17 43.8	1.569	2.559	6.0	18.9	8 19	22 52.55	-10 21.1	1.844	2.835	5.2	18.7
8 29	22 46.00	-19 17.3	1.533	2.533	4.2	18.7	8 29	22 45.70	-11 11.6	1.819	2.827	1.5	18.5
9 8	22 37.70	-20 41.6	1.524	2.506	6.6	18.8	9 8	22 38.51	-12 0.4	1.821	2.820	3.3	18.6
9 18	22 29.83	-21 48.6	1.540	2.480	10.5	19.0	9 18	22 31.82	-12 42.2	1.850	2.813	7.2	18.8
9 28	22 23.49	-22 33.0	1.580	2.454	14.3	19.2	9 28	22 26.45	-13 12.7	1.905	2.807	10.8	19.0
10 8	22 19.49	-22 52.9	1.639	2.428	17.7	19.3	10 8	22 22.99	-13 29.5	1.981	2.801	13.9	19.2
<b>451335</b>	2010 <i>VQ</i> <sub>116</sub>	9 1.5 336°22	1°7/31.1 17				<b>521041</b>	2015 <i>DG</i> <sub>235</sub>	9 1.5 94°58	0°2/ 1.6 16			
7 30	23 5.15	-11 18.4	1.819	2.705	12.8	20.9	7 30	23 9.35	- 5 26.2	1.555	2.428	15.3	22.1
8 9	23 0.50	-11 40.4	1.747	2.697	9.4	20.7	8 9	23 3.63	- 5 53.1	1.502	2.443	11.3	21.9
8 19	22 53.91	-12 8.7	1.698	2.689	5.5	20.4	8 19	22 55.74	- 6 32.7	1.471	2.458	6.7	21.7
8 29	22 46.04	-12 38.5	1.674	2.681	1.9	20.2	8 29	22 46.52	- 7 19.8	1.464	2.473	1.8	21.4
9 8	22 37.80	-13 4.6	1.677	2.675	3.8	20.3	9 8	22 37.08	- 8 7.9	1.485	2.487	3.1	21.6
9 18	22 30.16	-13 22.2	1.707	2.668	7.9	20.5	9 18	22 28.53	- 8 50.8	1.532	2.501	7.8	21.9
9 28	22 24.03	-13 28.2	1.761	2.662	11.6	20.8	9 28	22 21.86	- 9 23.2	1.604	2.515	11.9	22.2
10 8	22 20.05	-13 21.0	1.837	2.657	14.8	21.0	10 8	22 17.66	- 9 42.3	1.697	2.529	15.4	22.4
<b>261086</b>	2005 <i>SD</i> <sub>235</sub>	9 1.5 93°46	0°7/31.8 18				<b>352668</b>	2008 <i>RQ</i> <sub>72</sub>	9 1.5				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>479993</b>	2014 <i>KN</i> <sub>23</sub>		9 1.5 177°74	3°8/ 6.1 18			<b>472756</b>	2015 <i>FQ</i> <sub>113</sub>		9 1.5 177°23	2°4/ 3.4 16		
7 30	23 4.41	+ 7 19.5	2.493	3.295	12.5	22.2	7 30	23 8.98	- 0 38.7	1.702	2.555	15.2	21.7
8 9	22 59.50	+ 7 7.6	2.410	3.297	10.0	22.0	8 9	23 3.41	- 0 37.0	1.630	2.556	11.6	21.5
8 19	22 53.15	+ 6 39.3	2.350	3.298	7.3	21.9	8 19	22 55.71	- 0 50.7	1.580	2.557	7.6	21.3
8 29	22 45.85	+ 5 55.7	2.316	3.299	4.8	21.7	8 29	22 46.59	- 1 17.4	1.555	2.557	3.5	21.0
9 8	22 38.27	+ 5 0.1	2.309	3.299	3.9	21.7	9 8	22 37.06	- 1 52.7	1.556	2.557	3.3	21.0
9 18	22 31.11	+ 3 56.7	2.332	3.299	5.6	21.8	9 18	22 28.19	- 2 31.2	1.585	2.557	7.2	21.3
9 28	22 25.02	+ 2 51.1	2.382	3.298	8.3	22.0	9 28	22 21.00	- 3 7.1	1.638	2.557	11.2	21.5
10 8	22 20.53	+ 1 48.4	2.457	3.297	10.9	22.1	10 8	22 16.17	- 3 35.5	1.714	2.556	14.8	21.7
<b>219304</b>	2000 <i>DR</i> <sub>95</sub>		9 1.5 213°63	1°2/31.5 18			<b>9224</b>	<i>Železný</i>		9 1.5 307°51	4°2/ 4.6 18		
7 30	23 10.48	- 9 43.6	1.853	2.726	13.3	20.6	7 30	23 4.84	+ 3 7.4	1.395	2.253	17.6	18.0
8 9	23 4.42	-10 9.3	1.777	2.720	9.7	20.4	8 9	23 0.92	+ 3 10.8	1.314	2.239	13.9	17.7
8 19	22 56.27	-10 42.7	1.725	2.714	5.7	20.1	8 19	22 54.52	+ 2 51.6	1.252	2.224	9.7	17.5
8 29	22 46.71	-11 19.1	1.698	2.706	1.7	19.8	8 29	22 46.33	+ 2 10.7	1.213	2.211	5.5	17.2
9 8	22 36.72	-11 52.9	1.700	2.699	3.6	20.0	9 8	22 37.45	+ 1 12.8	1.198	2.197	4.6	17.1
9 18	22 27.36	-12 19.2	1.730	2.691	7.8	20.2	9 18	22 29.15	+ 0 5.5	1.207	2.184	8.4	17.3
9 28	22 19.59	-12 34.1	1.785	2.682	11.7	20.4	9 28	22 22.68	- 1 2.0	1.240	2.171	13.0	17.5
10 8	22 14.12	-12 35.8	1.862	2.673	15.0	20.6	10 8	22 18.91	- 2 1.3	1.294	2.159	17.2	17.7
<b>342409</b>	2008 <i>UP</i> <sub>58</sub>		9 1.5 248°17	3°4/ 4.8 18			<b>327579</b>	2006 <i>DX</i> <sub>130</sub>		9 1.5 214°19	2°8/29.6 18		
7 30	23 4.71	+ 4 3.5	1.916	2.750	14.5	21.5	7 30	23 6.20	-16 14.5	2.448	3.328	10.2	21.3
8 9	23 0.19	+ 3 44.1	1.829	2.739	11.4	21.3	8 9	23 0.82	-16 43.8	2.380	3.326	7.4	21.1
8 19	22 53.78	+ 3 5.4	1.763	2.729	7.9	21.1	8 19	22 53.93	-17 14.3	2.337	3.325	4.6	21.0
8 29	22 46.07	+ 2 9.2	1.722	2.718	4.5	20.8	8 29	22 46.09	-17 41.8	2.322	3.323	2.8	20.8
9 8	22 37.88	+ 1 0.1	1.708	2.707	3.6	20.8	9 8	22 38.02	-18 2.2	2.335	3.321	4.3	20.9
9 18	22 30.15	- 0 15.5	1.722	2.695	6.7	20.9	9 18	22 30.47	-18 12.3	2.377	3.320	7.1	21.1
9 28	22 23.77	- 1 30.4	1.762	2.683	10.4	21.1	9 28	22 24.12	-18 10.3	2.444	3.318	9.9	21.3
10 8	22 19.44	- 2 37.9	1.825	2.671	13.8	21.3	10 8	22 19.48	-17 56.0	2.534	3.316	12.3	21.5
<b>202528</b>	2006 <i>DW</i> <sub>8</sub>		9 1.5 102°20	4°6/28.8 17			<b>24832</b>	1995 <i>SU</i> <sub>5</sub>		9 1.5 90°43	3°4/ 4.6 18		
7 30	23 9.59	-14 34.5	1.364	2.261	15.5	20.0	7 30	23 7.07	+ 4 2.1	1.534	2.379	17.0	18.9
8 9	23 4.12	-16 2.2	1.320	2.276	11.2	19.8	8 9	23 2.01	+ 3 33.2	1.479	2.396	13.2	18.7
8 19	22 56.16	-17 35.3	1.299	2.290	6.9	19.6	8 19	22 54.84	+ 2 41.7	1.444	2.414	8.9	18.5
8 29	22 46.67	-19 3.1	1.303	2.303	4.6	19.5	8 29	22 46.34	+ 1 31.3	1.434	2.431	4.8	18.3
9 8	22 36.94	-20 15.3	1.332	2.317	7.0	19.7	9 8	22 37.61	+ 0 9.1	1.449	2.449	3.8	18.3
9 18	22 28.28	-21 5.1	1.387	2.330	11.1	19.9	9 18	22 29.72	- 1 16.4	1.491	2.465	7.3	18.6
9 28	22 21.78	-21 29.6	1.463	2.343	14.9	20.2	9 28	22 23.64	- 2 36.6	1.558	2.482	11.3	18.8
10 8	22 18.07	-21 29.7	1.559	2.355	18.1	20.5	10 8	22 19.97	- 3 44.7	1.647	2.498	14.8	19.1
<b>62531</b>	2000 <i>SH</i> <sub>254</sub>		9 1.5 226°54	1°8/30.7 18			<b>393912</b>	2005 <i>UL</i> <sub>26</sub>		9 1.5 8°64	5°4/ 7.4 18		
7 30	23 6.65	-10 21.3	2.078	2.954	11.9	19.8	7 30	23 0.63	+10 2.8	1.781	2.597	16.2	20.5
8 9	23 1.48	-11 15.0	1.999	2.944	8.7	19.5	8 9	22 57.24	+ 9 45.8	1.707	2.598	13.2	20.3
8 19	22 54.48	-12 16.8	1.943	2.933	5.1	19.3	8 19	22 52.03	+ 9 3.9	1.653	2.599	9.9	20.1
8 29	22 46.25	-13 21.2	1.915	2.922	1.9	19.1	8 29	22 45.63	+ 7 58.2	1.622	2.602	6.8	19.9
9 8	22 37.61	-14 22.1	1.915	2.910	3.9	19.2	9 8	22 38.87	+ 6 33.4	1.616	2.604	5.4	19.9
9 18	22 29.44	-15 13.7	1.944	2.898	7.6	19.4	9 18	22 32.67	+ 4 56.8	1.636	2.608	7.1	20.0
9 28	22 22.61	-15 51.7	1.998	2.885	11.1	19.6	9 28	22 27.87	+ 3 17.4	1.682	2.611	10.3	20.2
10 8	22 17.75	-16 14.0	2.074	2.872	14.2	19.8	10 8	22 25.10	+ 1 43.6	1.752	2.615	13.5	20.4
<b>326015</b>	2010 <i>WW</i> <sub>55</sub>		9 1.5 221°82	3°3/28.4 18			<b>221381</b>	2005 <i>XD</i> <sub>88</sub>		9 1.5 105°50	1°8/ 3.5 18		
7 30	23 3.37	-17 8.6	2.556	3.440	9.7	20.8	7 30	23 3.98	- 0 17.1	2.438	3.279	11.5	20.4
8 9	22 58.75	-18 5.9	2.489	3.436	7.1	20.6	8 9	22 59.14	- 0 32.2	2.370	3.289	8.8	20.3
8 19	22 52.71	-19 4.9	2.447	3.432	4.5	20.4	8 19	22 52.91	- 0 59.0	2.326	3.300	5.7	20.1
8 29	22 45.76	-20 0.4	2.432	3.428	3.3	20.3	8 29	22 45.83	- 1 34.9	2.308	3.310	2.6	19.9
9 8	22 38.55	-20 47.6	2.446	3.424	4.8	20.4	9 8	22 38.54	- 2 16.5	2.319	3.320	2.4	19.9
9 18	22 31.78	-21 22.6	2.488	3.420	7.4	20.6	9 18	22 31.73	- 2 59.6	2.359	3.330	5.3	20.1
9 28	22 26.09	-21 43.0	2.556	3.415	10.0	20.8	9 28	22 26.04	- 3 39.9	2.426	3.340	8.3	20.3
10 8	22 21.99	-21 48.4	2.645	3.411	12.3	20.9	10 8	22 21.93	- 4 14.0	2.518	3.350	10.9	20.5
<b>60162</b>	1999 <i>UE</i> <sub>26</sub>		9 1.5 35°14	5°3/ 7.1 18			<b>5375</b>	<i>Siedentopf</i>		9 1.5 5°33	1°4/31.2 18		
7 30	23 2.58	+ 9 3.7	1.877	2.691	15.5	18.5	7 30	23 2.58	- 9 35.9	1.744	2.633	13.2	17.5
8 9	22 58.51	+ 9 6.2	1.811	2.701	12.6	18.3	8 9	22 58.64	-10 13.1	1.682	2.633	9.6	17.3
8 19	22 52.70	+ 8 47.1	1.765	2.711	9.4	18.1	8 19	22 52.83	-10 58.8	1.643	2.634	5.5	17.0
8 29	22 45.77	+ 8 7.2	1.742	2.721	6.5	18.0	8 29	22 45.83	-11 47.7	1.628	2.636	1.7	16.8
9 8	22 38.55	+ 7 10.2	1.745	2.732	5.4	17.9	9 8	22 38.53	-12 33.6	1.640	2.639	3.7	16.9
9 18	22 31.93	+ 6 1.9	1.774	2.743	7.0	18.1	9 18	22 31.87	-13 10.8	1.679	2.642	7.8	17.2
9 28	22 26.71	+ 4 49.6	1.829	2.754	9.8	18.3	9 28	22 26.71	-13 35.3	1.741	2.646	11.5	17.4
10 8	22 23.45	+ 3 40.3	1.907	2.766	12.8	18.5	10 8	22 23.64	-13 44.9	1.825	2.651	14.7	17.6
<b>286883</b>	2002 <i>OY</i> <sub>35</sub>		9 1.5 347°13	0°2/ 1.3 18			<b>314512</b>	2005 <i>XM</i> <sub>67</sub>		9 1.5 284°56	5°8/26.2 18		
7 30	23 3.23	- 5 16.0	1.642	2.522	14.3	20.5	7 30	23 5.90	-23 43.4	2.146	3.035	11.0	21.1
8 9	22 59.26	- 6 3.1	1.574	2.519	10.6	20.3	8 9	23 0.95	-24 48.2	2.080	3.023	8.5	20.9
8 19	22 53.27	- 7 4.4	1.527	2.517	6.3	20.0	8 19	22 54.17	-25 50.4	2.037	3.011	6.4	20.7
8 29	22 45.94	- 8 14.5	1.506	2.515	1.6	19.7	8 29	22 46.19	-26 42.9	2.022	2.999	5.9	20.7
9 8	22 38.22	- 9 26.0	1.511	2.513	3.2	19.8	9 8	22 37.85	-27 19.7	2.032	2.987	7.5	20.8
9 18	22 31.13	-10 31.4	1.542	2.511	7.8	20.1	9 18	22 30.07	-27 37.1	2.069	2.975	10.0	20.9
9 28	22 25.62	-11 24.5	1.598	2.510	11.9	20.3	9 28	22 23.69	-27 33.7	2.129	2.963	12.7	21.0
10 8	22 22.34	-12 1.3	1.675	2.509	15.4	20.6	10 8	22 19.32	-27 10.5	2.209	2.951	15.0	21.2
<b>4703</b>	<i>Kagoshima</i>		9 1.5 278°14	1°6/31.2 18			<b>65536</b>	6826 <i>P-L</i>		9 1.5 345°21	3°3/29.7 18		
7 30	23 5.95	-											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>261482</b>	2005 VY <sub>124</sub>	9 1.5 138°24	2°6/ 4.9 18				<b>432814</b>	2011 GV <sub>70</sub>	9 1.5 56°52	9°3/12.1 16			
7 30	23 4.02	+ 3 26.2	2.779	3.597	10.9	21.0	7 30	23 7.79	+19 53.2	1.532	2.290	20.8	20.4
8 9	22 59.04	+ 3 16.9	2.706	3.607	8.5	20.8	8 9	23 2.44	+19 56.9	1.494	2.330	17.7	20.2
8 19	22 52.81	+ 2 55.3	2.656	3.617	5.9	20.7	8 19	22 55.00	+19 26.1	1.472	2.370	14.4	20.1
8 29	22 45.81	+ 2 23.1	2.634	3.627	3.4	20.5	8 29	22 46.39	+18 21.0	1.471	2.410	11.3	20.0
9 8	22 38.61	+ 1 43.0	2.640	3.636	2.8	20.5	9 8	22 37.75	+16 46.7	1.492	2.449	9.5	20.0
9 18	22 31.82	+ 0 58.8	2.676	3.645	4.9	20.7	9 18	22 30.14	+14 52.4	1.539	2.488	9.7	20.1
9 28	22 26.01	+ 0 14.3	2.739	3.653	7.4	20.8	9 28	22 24.47	+12 49.6	1.611	2.527	11.5	20.4
10 8	22 21.62	- 0 26.6	2.829	3.662	9.8	21.0	10 8	22 21.24	+10 49.8	1.706	2.566	14.0	20.6
<b>198145</b>	2004 TC <sub>48</sub>	9 1.5 62°89	2°5/30.6 18				<b>91925</b>	1999 VM <sub>38</sub>	9 1.5 338°88	1°0/31.7 18			
7 30	23 9.30	-12 9.4	1.492	2.383	14.9	19.4	7 30	23 3.55	- 8 45.1	1.805	2.689	13.0	19.0
8 9	23 3.62	-12 48.2	1.450	2.402	10.7	19.2	8 9	22 59.39	- 9 13.9	1.732	2.681	9.6	18.8
8 19	22 55.74	-13 32.9	1.430	2.421	6.3	19.0	8 19	22 53.34	- 9 51.8	1.682	2.673	5.6	18.5
8 29	22 46.58	-14 16.8	1.434	2.441	2.6	18.8	8 29	22 46.02	-10 34.2	1.658	2.666	1.5	18.2
9 8	22 37.30	-14 52.8	1.465	2.460	4.8	19.0	9 8	22 38.32	-11 15.2	1.660	2.660	3.4	18.4
9 18	22 29.04	-15 16.0	1.522	2.480	8.9	19.3	9 18	22 31.19	-11 49.5	1.688	2.654	7.5	18.6
9 28	22 22.75	-15 23.5	1.602	2.500	12.8	19.6	9 28	22 25.52	-12 12.8	1.741	2.648	11.4	18.8
10 8	22 18.99	-15 15.1	1.703	2.519	16.0	19.8	10 8	22 21.93	-12 22.5	1.816	2.643	14.7	19.0
<b>170398</b>	2003 TA <sub>14</sub>	9 1.5 230°08	3°8/ 4.5 18				<b>127499</b>	2002 TF <sub>56</sub>	9 1.5 353°79	3°0/ 4.1 18			
7 30	23 7.95	+ 2 59.8	1.566	2.412	16.6	20.2	7 30	23 3.73	+ 1 30.2	1.631	2.487	15.6	19.2
8 9	23 2.91	+ 2 59.7	1.489	2.407	13.1	19.9	8 9	22 59.67	+ 1 23.2	1.559	2.485	12.1	19.0
8 19	22 55.56	+ 2 39.2	1.432	2.402	9.0	19.7	8 19	22 53.57	+ 0 57.6	1.508	2.483	8.1	18.7
8 29	22 46.60	+ 1 59.8	1.399	2.396	5.0	19.5	8 29	22 46.09	+ 0 15.8	1.481	2.481	4.2	18.5
9 8	22 37.11	+ 1 6.1	1.392	2.391	4.2	19.4	9 8	22 38.20	- 0 37.3	1.479	2.480	3.5	18.5
9 18	22 28.24	+ 0 4.9	1.411	2.385	7.8	19.6	9 18	22 30.93	- 1 35.1	1.504	2.479	7.2	18.7
9 28	22 21.12	- 0 55.8	1.454	2.378	12.0	19.8	9 28	22 25.24	- 2 30.5	1.553	2.479	11.2	18.9
10 8	22 16.52	- 1 49.1	1.520	2.372	15.8	20.0	10 8	22 21.81	- 3 17.4	1.624	2.479	14.8	19.2
<b>386527</b>	2009 BV <sub>184</sub>	9 1.5 309°12	8°4/ 3.5 15				<b>361903</b>	2008 GH <sub>33</sub>	9 1.5 4°52	6°7/28.2 18			
7 30	23 24.72	+ 0 26.9	0.958	1.822	23.3	20.3	7 30	23 10.93	-24 49.0	1.549	2.444	14.1	20.0
8 9	23 16.75	+ 2 47.9	0.892	1.817	18.7	20.0	8 9	23 4.99	-25 11.5	1.497	2.444	10.9	19.8
8 19	23 4.52	+ 4 57.4	0.844	1.812	13.6	19.7	8 19	22 56.66	-25 26.8	1.468	2.445	7.9	19.6
8 29	22 49.10	+ 6 47.2	0.817	1.808	9.3	19.5	8 29	22 46.87	-25 27.4	1.462	2.447	6.8	19.6
9 8	22 32.49	+ 8 11.3	0.814	1.804	9.0	19.4	9 8	22 36.89	-25 8.3	1.481	2.450	8.4	19.7
9 18	22 17.09	+ 9 7.6	0.834	1.799	13.1	19.6	9 18	22 27.96	-24 27.7	1.525	2.454	11.4	19.9
9 28	22 5.06	+ 9 41.0	0.875	1.796	18.2	19.9	9 28	22 21.14	-23 27.2	1.592	2.458	14.6	20.1
10 8	21 57.62	+10 0.5	0.934	1.792	22.8	20.2	10 8	22 17.03	-22 10.2	1.678	2.464	17.5	20.3
<b>252961</b>	2002 PA <sub>119</sub>	9 1.5 62°60	3°2/ 3.9 17				<b>469333</b>	2000 PE <sub>30</sub>	9 1.5 30°63	0°2/28.7 15			
7 30	23 9.05	+ 1 15.5	1.281	2.145	18.5	20.3	7 30	22 45.74	-17 42.0	40.434	41.313	0.7	22.1
8 9	23 3.69	+ 1 7.2	1.237	2.167	14.2	20.1	8 9	22 45.08	-17 47.6	40.374	41.320	0.5	22.1
8 19	22 55.90	+ 0 37.1	1.212	2.189	9.3	19.9	8 19	22 44.36	-17 53.2	40.342	41.328	0.3	22.1
8 29	22 46.64	- 0 10.8	1.210	2.212	4.6	19.7	8 29	22 43.60	-17 58.6	40.338	41.335	0.2	22.1
9 8	22 37.23	- 1 9.4	1.233	2.234	3.9	19.8	9 8	22 42.83	-18 3.6	40.363	41.343	0.3	22.1
9 18	22 28.91	- 2 10.4	1.281	2.257	8.1	20.1	9 18	22 42.08	-18 8.1	40.417	41.350	0.5	22.1
9 28	22 22.76	- 3 5.7	1.353	2.280	12.5	20.4	9 28	22 41.37	-18 11.8	40.499	41.358	0.7	22.1
10 8	22 19.37	- 3 49.2	1.445	2.302	16.2	20.7	10 8	22 40.74	-18 14.7	40.605	41.366	0.9	22.2
<b>143632</b>	2003 HA <sub>37</sub>	9 1.5 165°53	4°8/ 7.9 18				<b>326237</b>	2012 DG <sub>20</sub>	9 1.5 186°22	3°3/27.9 18			
7 30	23 3.77	+11 47.3	2.779	3.550	12.1	20.9	7 30	23 2.96	-17 27.6	2.791	3.673	9.0	21.3
8 9	22 58.94	+11 44.4	2.696	3.554	10.0	20.8	8 9	22 58.38	-18 36.9	2.726	3.673	6.6	21.1
8 19	22 52.80	+11 24.7	2.635	3.559	7.7	20.6	8 19	22 52.50	-19 47.7	2.688	3.672	4.3	21.0
8 29	22 45.83	+10 48.6	2.599	3.562	5.7	20.5	8 29	22 45.78	-20 54.9	2.678	3.671	3.3	20.9
9 8	22 38.62	+ 9 58.4	2.591	3.566	4.8	20.4	9 8	22 38.83	-21 53.6	2.697	3.670	4.7	21.0
9 18	22 31.77	+ 8 57.8	2.611	3.569	5.7	20.5	9 18	22 32.26	-22 40.1	2.744	3.668	7.1	21.1
9 28	22 25.90	+ 7 51.6	2.659	3.571	7.7	20.6	9 28	22 26.69	-23 11.9	2.817	3.666	9.5	21.3
10 8	22 21.47	+ 6 45.1	2.733	3.573	9.9	20.8	10 8	22 22.56	-23 28.4	2.913	3.664	11.6	21.4
<b>22597</b>	Lynzielinski	9 1.5 89°37	0°4/ 1.9 18				<b>476685</b>	2008 TN <sub>80</sub>	9 1.5 80°37	4°0/29.5 16			
7 30	23 6.48	- 2 53.9	1.440	2.315	16.2	19.2	7 30	23 11.14	-17 5.0	1.632	2.521	13.9	21.1
8 9	23 1.75	- 3 50.7	1.386	2.327	12.0	19.0	8 9	23 4.93	-17 42.3	1.584	2.534	10.1	20.9
8 19	22 54.77	- 5 5.5	1.352	2.339	7.2	18.7	8 19	22 56.53	-18 20.3	1.559	2.547	6.3	20.7
8 29	22 46.37	- 6 31.7	1.344	2.352	2.1	18.4	8 29	22 46.84	-18 52.3	1.559	2.559	4.0	20.6
9 8	22 37.68	- 8 0.0	1.361	2.364	3.2	18.6	9 8	22 36.99	-19 12.0	1.587	2.572	5.9	20.7
9 18	22 29.86	- 9 21.3	1.405	2.376	8.1	18.9	9 18	22 28.11	-19 16.0	1.640	2.585	9.5	21.0
9 28	22 23.92	-10 28.3	1.473	2.387	12.5	19.2	9 28	22 21.16	-19 2.8	1.717	2.597	13.0	21.2
10 8	22 20.50	-11 16.7	1.562	2.399	16.2	19.4	10 8	22 16.72	-18 33.6	1.815	2.610	16.0	21.4
<b>313077</b>	2000 SU <sub>319</sub>	9 1.5 326°79	9°1/ 9.2 17				<b>51682</b>	2001 KM <sub>10</sub>	9 1.5 312°24	8°3/24.3 18			
7 30	23 3.33	+14 50.2	1.745	2.530	17.6	20.2	7 30	23 6.95	-27 25.8	1.719	2.613	13.0	18.1
8 9	22 59.54	+15 45.5	1.655	2.512	15.2	20.0	8 9	23 2.16	-28 55.6	1.665	2.606	10.4	17.9
8 19	22 53.61	+16 17.1	1.582	2.495	12.6	19.8	8 19	22 55.09	-30 19.0	1.634	2.598	8.6	17.8
8 29	22 46.13	+16 21.4	1.531	2.478	10.3	19.7	8 29	22 46.51	-31 26.3	1.628	2.590	8.5	17.8
9 8	22 37.98	+15 58.3	1.502	2.462	9.1	19.6	9 8	22 37.53	-32 9.5	1.646	2.583	10.3	17.9
9 18	22 30.23	+15 10.7	1.497	2.447	9.9	19.6	9 18	22 29.32	-32 24.5	1.688	2.576	12.9	18.1
9 28	22 23.94	+14 5.3	1.516	2.432	12.2	19.7	9 28	22 22.95	-32 11.0	1.751	2.569	15.7	18.2
10 8	22 19.93	+12 51.3	1.557	2.418	15.0	19.8	10 8	22 19.09	-31 32.1	1.831	2.563	18.1	18.4
<b>224260</b>	2005 SD <sub>247</sub>	9 1.5 135°29	1°9/30.8 17				<b>403984</b>	2012 BR <sub>106</sub>	9 1.5 159°86	4°7/26.3 18			
7 30	23 9.76	-11 22.1											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>354355</b>	2003 <i>GT</i> <sub>54</sub>		9 1.5 93°49	0°6/31.8	18		<b>216480</b>	1999 <i>UH</i> <sub>25</sub>		9 1.5 4°7.8	6°1/ 7.5	18	
7 30	23 3.82	- 7 3.8	2.140	3.011	11.8	20.7	7 30	23 2.49	+ 9 42.9	1.791	2.605	16.1	18.9
8 9	22 59.24	- 7 51.3	2.078	3.020	8.6	20.5	8 9	22 58.66	+10 1.8	1.718	2.605	13.3	18.7
8 19	22 53.09	- 8 47.9	2.040	3.029	5.0	20.3	8 19	22 52.95	+ 9 58.5	1.664	2.606	10.2	18.5
8 29	22 45.96	- 9 49.0	2.030	3.038	1.3	20.0	8 29	22 45.99	+ 9 32.7	1.633	2.607	7.4	18.4
9 8	22 38.62	-10 48.9	2.048	3.047	2.8	20.2	9 8	22 38.64	+ 8 47.2	1.626	2.609	6.1	18.3
9 18	22 31.82	-11 42.4	2.093	3.057	6.5	20.4	9 18	22 31.84	+ 7 47.2	1.645	2.612	7.6	18.4
9 28	22 26.29	-12 25.3	2.165	3.065	9.8	20.6	9 28	22 26.48	+ 6 40.1	1.690	2.615	10.5	18.6
10 8	22 22.54	-12 55.0	2.260	3.074	12.6	20.9	10 8	22 23.20	+ 5 33.5	1.756	2.619	13.5	18.8
<b>185781</b>	1999 <i>US</i> <sub>40</sub>		9 1.5 80°37	1°5/30.9	18		<b>444130</b>	2004 <i>TZ</i> <sub>310</sub>		9 1.5 344°11	8°9/26.3	18	
7 30	23 4.48	-10 29.1	2.171	3.049	11.4	20.9	7 30	23 12.25	-30 43.4	1.651	2.537	13.9	19.7
8 9	22 59.75	-11 7.7	2.105	3.051	8.3	20.7	8 9	23 6.09	-31 17.9	1.593	2.526	11.4	19.5
8 19	22 53.41	-11 52.5	2.063	3.053	4.8	20.5	8 19	22 57.41	-31 40.5	1.557	2.516	9.4	19.4
8 29	22 46.06	-12 39.1	2.048	3.055	1.7	20.3	8 29	22 47.16	-31 42.8	1.544	2.507	8.9	19.3
9 8	22 38.45	-13 22.3	2.061	3.057	3.4	20.4	9 8	22 36.63	-31 19.3	1.556	2.498	10.4	19.4
9 18	22 31.37	-13 57.6	2.101	3.059	6.9	20.7	9 18	22 27.11	-30 28.6	1.592	2.491	12.9	19.6
9 28	22 25.56	-14 21.6	2.168	3.061	10.1	20.9	9 28	22 19.74	-29 13.0	1.649	2.485	15.7	19.7
10 8	22 21.55	-14 32.8	2.257	3.063	12.9	21.1	10 8	22 15.17	-27 37.4	1.726	2.479	18.3	19.9
<b>180285</b>	2003 <i>WC</i> <sub>90</sub>		9 1.5 280°73	0°8/31.9	18		<b>302857</b>	2003 <i>GM</i> <sub>35</sub>		9 1.5 151°62	4°1/27.9	18	
7 30	23 7.42	- 7 13.8	1.423	2.309	15.7	20.8	7 30	23 7.54	-20 43.1	2.501	3.381	10.0	21.4
8 9	23 2.76	- 7 49.6	1.350	2.299	11.7	20.6	8 9	23 1.79	-21 31.3	2.445	3.388	7.4	21.2
8 19	22 55.61	- 8 39.3	1.298	2.289	6.9	20.3	8 19	22 54.54	-22 17.9	2.414	3.394	5.1	21.1
8 29	22 46.71	- 9 37.1	1.270	2.279	1.8	19.9	8 29	22 46.38	-22 57.6	2.412	3.400	4.2	21.0
9 8	22 37.22	-10 34.9	1.268	2.269	3.9	20.1	9 8	22 38.03	-23 26.0	2.437	3.406	5.5	21.1
9 18	22 28.43	-11 25.0	1.291	2.259	9.1	20.3	9 18	22 30.24	-23 40.3	2.491	3.411	7.9	21.3
9 28	22 21.54	-12 1.1	1.337	2.249	13.8	20.6	9 28	22 23.72	-23 39.2	2.569	3.416	10.4	21.5
10 8	22 17.38	-12 19.6	1.403	2.239	17.8	20.8	10 8	22 18.93	-23 23.2	2.670	3.420	12.5	21.6
<b>386388</b>	2008 <i>UN</i> <sub>127</sub>		9 1.5 11°42	4°2/29.3	18		<b>396181</b>	2013 <i>GY</i> <sub>61</sub>		9 1.5 81°30	2°3/30.2	18	
7 30	23 5.72	-15 15.2	1.410	2.313	14.8	20.2	7 30	23 5.59	-13 28.1	2.198	3.079	11.1	21.0
8 9	23 1.36	-16 11.3	1.357	2.315	10.8	20.0	8 9	23 0.51	-14 5.4	2.140	3.087	8.1	20.9
8 19	22 54.64	-17 12.0	1.325	2.317	6.6	19.7	8 19	22 53.84	-14 46.2	2.106	3.095	4.8	20.7
8 29	22 46.41	-18 8.9	1.318	2.320	4.2	19.6	8 29	22 46.20	-15 25.8	2.099	3.103	2.3	20.5
9 8	22 37.84	-18 53.5	1.335	2.323	6.4	19.7	9 8	22 38.37	-15 59.3	2.120	3.111	4.0	20.7
9 18	22 30.16	-19 19.9	1.377	2.327	10.5	20.0	9 18	22 31.12	-16 23.0	2.169	3.119	7.2	20.9
9 28	22 24.44	-19 25.2	1.441	2.332	14.4	20.2	9 28	22 25.19	-16 34.3	2.243	3.128	10.2	21.1
10 8	22 21.33	-19 9.9	1.524	2.337	17.7	20.5	10 8	22 21.06	-16 32.5	2.340	3.136	12.8	21.3
<b>11330</b>	1995 <i>WZ</i> <sub>6</sub>		9 1.5 298°60	5°8/26.5	18		<b>25291</b>	1998 <i>WO</i> <sub>16</sub>		9 1.6 201°27	2°6/29.4	18	
7 30	23 5.91	-23 4.7	2.032	2.923	11.4	17.8	7 30	23 4.24	-15 8.0	2.622	3.501	9.6	19.8
8 9	23 1.05	-24 10.7	1.969	2.915	8.8	17.6	8 9	22 59.39	-15 52.8	2.553	3.499	7.0	19.7
8 19	22 54.30	-25 14.2	1.931	2.906	6.5	17.4	8 19	22 53.15	-16 40.1	2.509	3.497	4.3	19.5
8 29	22 46.32	-26 8.1	1.918	2.898	5.9	17.4	8 29	22 46.04	-17 25.5	2.493	3.494	2.6	19.4
9 8	22 38.01	-26 45.9	1.932	2.890	7.5	17.5	9 8	22 38.69	-18 4.4	2.506	3.491	4.0	19.5
9 18	22 30.29	-27 3.9	1.971	2.882	10.2	17.6	9 18	22 31.76	-18 33.6	2.547	3.488	6.7	19.6
9 28	22 24.05	-27 0.5	2.034	2.874	13.0	17.8	9 28	22 25.91	-18 50.4	2.614	3.485	9.4	19.8
10 8	22 19.90	-26 37.1	2.116	2.867	15.4	18.0	10 8	22 21.59	-18 54.2	2.704	3.482	11.7	20.0
<b>130008</b>	1999 <i>VU</i> <sub>46</sub>		9 1.5 274°79	21°1/14.5	18		<b>53058</b>	1998 <i>XE</i> <sub>18</sub>		9 1.6 91°54	4°9/28.6	18	
7 30	23 29.12	-50 47.6	1.131	1.971	22.0	19.3	7 30	23 9.42	-17 30.4	1.529	2.425	14.3	19.1
8 9	23 20.97	-52 53.2	1.101	1.958	21.2	19.2	8 9	23 3.91	-18 35.0	1.481	2.434	10.5	18.8
8 19	23 7.24	-54 22.0	1.085	1.944	21.2	19.2	8 19	22 56.09	-19 41.2	1.455	2.442	6.7	18.7
8 29	22 49.82	-54 55.1	1.085	1.931	22.0	19.2	8 29	22 46.83	-20 40.2	1.454	2.451	4.9	18.6
9 8	22 31.93	-54 23.2	1.100	1.917	23.4	19.2	9 8	22 37.32	-21 24.1	1.479	2.459	7.0	18.7
9 18	22 16.81	-52 48.1	1.130	1.903	25.3	19.3	9 18	22 28.75	-21 47.9	1.528	2.467	10.6	19.0
9 28	22 6.67	-50 20.9	1.171	1.889	27.2	19.4	9 28	22 22.15	-21 49.7	1.601	2.475	14.1	19.2
10 8	22 2.10	-47 16.4	1.224	1.875	29.0	19.6	10 8	22 18.15	-21 30.8	1.694	2.483	17.2	19.4
<b>176498</b>	2001 <i>XU</i> <sub>265</sub>		9 1.5 82°89	1°4/31.2	18		<b>54689</b>	2001 <i>DH</i> <sub>101</sub>		9 1.6 299°37	1°8/29.4	17	
7 30	23 5.30	-10 5.6	2.028	2.906	12.0	20.2	7 30	22 59.75	-16 29.5	4.125	5.000	6.5	19.2
8 9	23 0.46	-10 42.8	1.961	2.907	8.8	20.0	8 9	22 55.70	-16 51.5	4.047	4.991	4.7	19.0
8 19	22 53.89	-11 27.1	1.918	2.908	5.1	19.8	8 19	22 50.82	-17 14.0	3.996	4.983	2.9	18.9
8 29	22 46.21	-12 13.6	1.902	2.909	1.7	19.5	8 29	22 45.41	-17 34.8	3.974	4.974	1.8	18.8
9 8	22 38.25	-12 56.9	1.913	2.910	3.5	19.7	9 8	22 39.85	-17 51.6	3.981	4.966	2.8	18.9
9 18	22 30.86	-13 32.2	1.952	2.911	7.2	19.9	9 18	22 34.53	-18 2.5	4.018	4.957	4.6	19.0
9 28	22 24.84	-13 55.9	2.016	2.913	10.6	20.1	9 28	22 29.85	-18 6.1	4.082	4.949	6.4	19.1
10 8	22 20.74	-14 6.1	2.103	2.914	13.6	20.3	10 8	22 26.10	-18 1.8	4.170	4.940	8.0	19.2
<b>286485</b>	2002 <i>AY</i> <sub>188</sub>		9 1.5 154°52	2°8/ 4.7	18		<b>100006</b>	1987 <i>DA</i> <sub>7</sub>		9 1.6 178°23	1°3/ 2.6	18	
7 30	23 4.57	+ 2 53.7	2.404	3.231	12.1	21.1	7 30	23 13.61	- 2 13.6	1.806	2.653	14.7	19.9
8 9	22 59.69	+ 2 47.1	2.328	3.235	9.5	20.9	8 9	23 6.78	- 2 36.8	1.732	2.657	11.1	19.7
8 19	22 53.35	+ 2 26.8	2.274	3.238	6.5	20.7	8 19	22 57.77	- 3 14.6	1.681	2.660	6.9	19.5
8 29	22 46.06	+ 1 54.3	2.247	3.241	3.7	20.6	8 29	22 47.30	- 4 3.3	1.656	2.661	2.6	19.2
9 8	22 38.51	+ 1 13.0	2.247	3.244	3.1	20.5	9 8	22 36.42	- 4 57.2	1.659	2.661	2.9	19.2
9 18	22 31.40	+ 0 27.1	2.276	3.247	5.5	20.7	9 18	22 26.22	- 5 50.3	1.691	2.660	7.2	19.5
9 28	22 25.42	- 0 18.9	2.333	3.250	8.4	20.9	9 28	22 17.72	- 6 36.5	1.750	2.657	11.3	19.7
10 8	22 21.05	- 1 0.6	2.414	3.252	11.1	21.1	10 8	22 11.62	- 7 11.8	1.832	2.654	14.8	20.0
<b>80614</b>	2000 <i>AO</i> <sub>168</sub>		9 1.5 105°39	0°9/31.7	18		<b>324935</b>	2007 <i>XC</i> <sub>21</sub>		9 1.6 199°68			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>186994</b>	2004 <i>TC</i> <sub>14</sub>		9 1.6 344°81	1°3/ 2.8 18			<b>56086</b>	1999 <i>AA</i> <sub>21</sub>		9 1.6 341°60	3°7/ 2.3 18		
7 30	23 0.51	- 1 15.8	1.764	2.631	14.1	20.0	7 30	23 22.55	- 7 33.9	1.136	2.012	19.5	16.1
8 9	22 57.24	- 1 55.7	1.688	2.623	10.6	19.8	8 9	23 14.73	- 5 32.2	1.059	1.998	15.1	15.8
8 19	22 52.15	- 2 52.6	1.634	2.617	6.7	19.6	8 19	23 3.18	- 3 30.0	1.002	1.985	9.8	15.4
8 29	22 45.82	- 4 2.5	1.604	2.610	2.5	19.3	8 29	22 48.89	- 1 30.5	0.970	1.973	4.6	15.1
9 8	22 39.09	- 5 19.0	1.602	2.605	2.7	19.3	9 8	22 33.61	+ 0 22.1	0.963	1.963	5.2	15.1
9 18	22 32.88	- 6 34.7	1.625	2.600	6.9	19.5	9 18	22 19.35	+ 2 3.6	0.983	1.954	10.7	15.4
9 28	22 28.06	- 7 42.6	1.674	2.596	10.9	19.8	9 28	22 7.97	+ 3 32.9	1.027	1.947	16.1	15.7
10 8	22 25.26	- 8 37.2	1.746	2.592	14.3	20.0	10 8	22 0.56	+ 4 51.9	1.089	1.941	20.7	15.9
<b>237595</b>	2001 <i>GQ</i> <sub>4</sub>		9 1.6 156°89	5°8/25.8 18			<b>356619</b>	2011 <i>UT</i> <sub>15</sub>		9 1.6 198°35	5°6/26.4 18		
7 30	23 8.53	-24 36.1	2.311	3.193	10.6	20.6	7 30	23 7.24	-23 43.1	2.211	3.096	10.9	21.0
8 9	23 2.70	-25 53.0	2.262	3.200	8.2	20.5	8 9	23 1.87	-24 47.5	2.153	3.095	8.3	20.8
8 19	22 55.18	-27 5.8	2.238	3.207	6.3	20.4	8 19	22 54.75	-25 48.6	2.120	3.093	6.2	20.7
8 29	22 46.59	-28 7.5	2.242	3.213	5.9	20.4	8 29	22 46.51	-26 39.8	2.114	3.092	5.7	20.6
9 8	22 37.78	-28 52.6	2.273	3.219	7.4	20.5	9 8	22 38.00	-27 15.4	2.135	3.090	7.2	20.7
9 18	22 29.60	-29 18.0	2.330	3.224	9.6	20.6	9 18	22 30.10	-27 32.1	2.182	3.087	9.6	20.9
9 28	22 22.83	-29 22.6	2.412	3.228	11.9	20.8	9 28	22 23.61	-27 28.8	2.253	3.085	12.2	21.0
10 8	22 18.00	-29 8.1	2.514	3.232	14.0	20.9	10 8	22 19.09	-27 6.9	2.344	3.083	14.4	21.2
<b>28441</b>	2000 <i>AE</i> <sub>43</sub>		9 1.6 353°07	17°8/12.1 17			<b>238630</b>	2005 <i>CK</i> <sub>25</sub>		9 1.6 111°03	1°9/30.8 18		
7 30	23 2.21	-34 29.3	0.859	1.784	19.4	17.9	7 30	23 5.68	-10 22.1	1.825	2.708	12.9	20.5
8 9	23 0.66	-39 11.1	0.841	1.781	17.9	17.8	8 9	23 0.93	-11 12.6	1.761	2.709	9.4	20.3
8 19	22 55.15	-43 25.8	0.843	1.778	18.2	17.8	8 19	22 54.28	-12 11.3	1.720	2.710	5.5	20.1
8 29	22 46.74	-46 45.9	0.865	1.776	20.3	17.9	8 29	22 46.40	-13 12.2	1.705	2.712	2.0	19.9
9 8	22 37.46	-48 55.7	0.904	1.775	23.1	18.1	9 8	22 38.20	-14 8.5	1.717	2.713	4.1	20.0
9 18	22 29.62	-49 53.1	0.957	1.775	25.9	18.3	9 18	22 30.63	-14 54.5	1.757	2.714	8.0	20.3
9 28	22 25.18	-49 45.6	1.020	1.775	28.3	18.5	9 28	22 24.57	-15 25.9	1.821	2.716	11.6	20.5
10 8	22 25.03	-48 46.2	1.091	1.776	30.3	18.7	10 8	22 20.63	-15 41.0	1.906	2.717	14.8	20.7
<b>84143</b>	2002 <i>RM</i> <sub>59</sub>		9 1.6 347°52	4°8/29.9 18			<b>344809</b>	2004 <i>BX</i> <sub>120</sub>		9 1.6 263°03	7°6/23.8 18		
7 30	23 9.07	-16 58.4	1.122	2.032	17.1	18.4	7 30	23 9.36	-29 2.9	2.166	3.046	11.3	21.1
8 9	23 4.46	-17 22.7	1.064	2.025	12.7	18.1	8 9	23 3.74	-30 25.5	2.095	3.024	9.2	20.9
8 19	22 56.80	-17 49.0	1.026	2.018	7.9	17.8	8 19	22 56.04	-31 42.3	2.048	3.002	7.8	20.8
8 29	22 47.10	-18 8.7	1.010	2.012	4.8	17.7	8 29	22 46.90	-32 45.1	2.027	2.980	7.8	20.8
9 8	22 36.88	-18 13.5	1.016	2.008	7.2	17.8	9 8	22 37.25	-33 27.2	2.033	2.957	9.4	20.8
9 18	22 27.75	-17 58.6	1.046	2.004	12.0	18.0	9 18	22 28.13	-33 44.5	2.063	2.933	11.7	20.9
9 28	22 21.13	-17 22.7	1.096	2.002	16.6	18.3	9 28	22 20.52	-33 36.2	2.115	2.910	14.1	21.0
10 8	22 17.83	-16 27.6	1.164	2.001	20.6	18.6	10 8	22 15.14	-33 4.5	2.186	2.885	16.3	21.2
<b>398101</b>	2009 <i>SN</i> <sub>47</sub>		9 1.6 321°06	6°2/ 9.2 18			<b>373830</b>	2002 <i>XC</i> <sub>58</sub>		9 1.6 204°26	9°2/12.3 18		
7 30	23 0.62	+14 7.9	2.176	2.953	14.8	20.8	7 30	23 8.87	+23 16.0	2.453	3.139	15.5	21.2
8 9	22 57.10	+14 1.2	2.085	2.943	12.5	20.6	8 9	23 3.13	+23 53.2	2.358	3.132	13.8	21.0
8 19	22 51.99	+13 31.3	2.014	2.934	9.9	20.4	8 19	22 55.59	+24 7.2	2.281	3.126	12.0	20.9
8 29	22 45.78	+12 37.9	1.966	2.926	7.5	20.2	8 29	22 46.77	+23 55.0	2.225	3.118	10.3	20.8
9 8	22 39.19	+11 23.7	1.944	2.917	6.3	20.2	9 8	22 37.46	+23 16.4	2.194	3.109	9.3	20.7
9 18	22 32.99	+ 9 53.9	1.948	2.909	7.1	20.2	9 18	22 28.51	+22 13.9	2.189	3.099	9.4	20.7
9 28	22 27.95	+ 8 15.8	1.979	2.901	9.4	20.3	9 28	22 20.76	+20 53.0	2.209	3.089	10.5	20.7
10 8	22 24.65	+ 6 37.3	2.035	2.893	12.1	20.5	10 8	22 14.89	+19 21.6	2.254	3.077	12.3	20.8
<b>63020</b>	2000 <i>WW</i> <sub>44</sub>		9 1.6 147°55	0°4/ 1.2 18			<b>381771</b>	2009 <i>SS</i> <sub>325</sub>		9 1.6 334°06	2°1/ 3.3 18		
7 30	23 9.64	- 6 12.7	1.727	2.596	14.2	19.9	7 30	23 2.87	- 0 15.4	1.299	2.176	17.5	20.6
8 9	23 3.85	- 6 57.4	1.665	2.605	10.5	19.7	8 9	22 59.58	- 0 41.9	1.227	2.167	13.4	20.3
8 19	22 56.00	- 7 53.9	1.626	2.614	6.2	19.4	8 19	22 53.82	- 1 31.1	1.175	2.158	8.6	20.0
8 29	22 46.84	- 8 56.9	1.614	2.622	1.6	19.1	8 29	22 46.34	- 2 38.9	1.146	2.150	3.6	19.7
9 8	22 37.37	- 9 59.3	1.629	2.630	3.2	19.3	9 8	22 38.27	- 3 57.8	1.140	2.143	3.4	19.7
9 18	22 28.65	-10 54.6	1.671	2.636	7.7	19.6	9 18	22 30.88	- 5 17.9	1.159	2.136	8.5	20.0
9 28	22 21.62	-11 37.5	1.739	2.642	11.6	19.8	9 28	22 25.40	- 6 29.6	1.200	2.131	13.4	20.2
10 8	22 16.91	-12 5.4	1.829	2.648	15.0	20.1	10 8	22 22.63	- 7 25.6	1.262	2.125	17.7	20.5
<b>481691</b>	2008 <i>AF</i> <sub>56</sub>		9 1.6 330°01	1°1/ 2.4 17			<b>509049</b>	2005 <i>SQ</i> <sub>237</sub>		9 1.6 267°54	1°6/ 2.9 18		
7 30	23 2.77	- 3 51.4	1.451	2.334	15.7	21.0	7 30	23 6.91	- 1 30.0	1.761	2.619	14.5	21.9
8 9	22 59.37	- 4 4.2	1.369	2.314	11.9	20.7	8 9	23 2.13	- 1 50.1	1.670	2.600	11.1	21.7
8 19	22 53.66	- 4 33.0	1.308	2.295	7.4	20.4	8 19	22 55.19	- 2 26.3	1.601	2.581	7.1	21.4
8 29	22 46.28	- 5 14.3	1.270	2.277	2.5	20.1	8 29	22 46.70	- 3 16.0	1.556	2.561	2.9	21.1
9 8	22 38.27	- 6 2.1	1.257	2.260	3.1	20.1	9 8	22 37.59	- 4 13.6	1.539	2.541	2.9	21.1
9 18	22 30.81	- 6 49.2	1.268	2.244	8.2	20.3	9 18	22 28.91	- 5 12.9	1.549	2.521	7.3	21.3
9 28	22 25.05	- 7 28.6	1.303	2.229	12.9	20.6	9 28	22 21.71	- 6 6.9	1.584	2.501	11.7	21.5
10 8	22 21.82	- 7 55.1	1.358	2.214	17.1	20.8	10 8	22 16.79	- 6 50.3	1.641	2.480	15.5	21.7
<b>187443</b>	2005 <i>WO</i> <sub>97</sub>		9 1.6 9°91	5°5/27.2 18			<b>430123</b>	2013 <i>TN</i> <sub>28</sub>		9 1.6 245°63	4°3/29.3 16		
7 30	23 5.50	-21 29.8	1.890	2.785	12.0	19.9	7 30	23 10.28	-16 43.0	1.608	2.500	13.9	21.3
8 9	23 0.79	-22 32.5	1.837	2.786	9.0	19.8	8 9	23 4.64	-17 31.2	1.543	2.494	10.3	21.1
8 19	22 54.17	-23 33.2	1.807	2.787	6.4	19.6	8 19	22 56.64	-18 22.2	1.499	2.488	6.5	20.9
8 29	22 46.35	-24 24.6	1.803	2.789	5.6	19.6	8 29	22 47.06	-19 8.4	1.482	2.481	4.3	20.7
9 8	22 38.27	-25 0.6	1.825	2.791	7.3	19.7	9 8	22 37.05	-19 42.3	1.490	2.475	6.3	20.8
9 18	22 30.89	-25 17.2	1.872	2.793	10.1	19.8	9 18	22 27.81	-19 58.9	1.524	2.469	10.2	21.0
9 28	22 25.07	-25 13.0	1.943	2.796	12.9	20.0	9 28	22 20.44	-19 55.6	1.582	2.462	14.0	21.2
10 8	22 21.38	-24 49.4	2.033	2.799	15.5	20.2	10 8	22 15.68	-19 33.2	1.659	2.455	17.2	21.5
<b>391528</b>	2007 <i>RF</i> <sub>233</sub>		9 1.6 351°32	1°2/31.4 18			<b>389794</b>	2011 <i>UX</i> <sub>100</sub>		9			



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>92139</b>	1999 <i>XF</i> <sub>114</sub>		9 1.6 285°40	1°0/ 2.5 18			<b>106014</b>	2000 <i>SZ</i> <sub>292</sub>		9 1.6 321°97	6°5/ 7.6 18		
7 30	23 7.51	- 4 42.1	2.233	3.088	12.0	19.4	7 30	23 4.02	+10 26.7	1.916	2.719	15.7	18.9
8 9	23 2.12	- 4 36.3	2.140	3.070	9.0	19.2	8 9	22 59.83	+10 55.6	1.830	2.708	13.0	18.7
8 19	22 54.97	- 4 39.2	2.070	3.052	5.6	19.0	8 19	22 53.76	+11 3.9	1.763	2.698	10.2	18.5
8 29	22 46.62	- 4 48.8	2.027	3.034	2.0	18.7	8 29	22 46.35	+10 50.3	1.719	2.688	7.6	18.4
9 8	22 37.81	- 5 2.0	2.013	3.015	2.4	18.7	9 8	22 38.45	+10 16.4	1.700	2.679	6.5	18.3
9 18	22 29.38	- 5 15.4	2.027	2.997	6.1	18.9	9 18	22 30.97	+ 9 26.4	1.707	2.669	7.8	18.3
9 28	22 22.16	- 5 25.5	2.068	2.978	9.7	19.1	9 28	22 24.84	+ 8 26.7	1.740	2.661	10.5	18.5
10 8	22 16.78	- 5 29.5	2.133	2.960	12.8	19.3	10 8	22 20.75	+ 7 24.8	1.795	2.652	13.5	18.7
<b>367035</b>	2006 <i>DV</i> <sub>3</sub>		9 1.6 210°47	0°8/ 2.7 18			<b>340302</b>	2006 <i>CM</i> <sub>47</sub>		9 1.6 67°24	1°5/ 31.3 16		
7 30	23 1.29	- 0 26.3	2.566	3.410	10.9	20.5	7 30	23 6.53	- 8 42.1	1.583	2.467	14.5	20.8
8 9	22 57.30	- 1 34.4	2.483	3.407	8.2	20.3	8 9	23 1.68	- 9 34.4	1.532	2.481	10.5	20.6
8 19	22 51.98	- 2 56.4	2.426	3.405	5.1	20.1	8 19	22 54.76	-10 36.8	1.504	2.495	6.1	20.3
8 29	22 45.79	- 4 28.1	2.396	3.402	1.8	19.9	8 29	22 46.58	-11 42.5	1.501	2.509	1.8	20.1
9 8	22 39.33	- 6 4.2	2.396	3.399	2.0	19.9	9 8	22 38.17	-12 43.9	1.525	2.523	4.0	20.3
9 18	22 33.23	- 7 38.7	2.427	3.396	5.3	20.1	9 18	22 30.58	-13 34.5	1.575	2.538	8.3	20.6
9 28	22 28.09	- 9 5.7	2.485	3.393	8.4	20.3	9 28	22 24.75	-14 9.6	1.649	2.552	12.2	20.9
10 8	22 24.42	-10 21.1	2.569	3.389	11.1	20.5	10 8	22 21.25	-14 27.4	1.745	2.566	15.4	21.1
<b>206730</b>	2004 <i>BM</i> <sub>90</sub>		9 1.6 154°99	3°6/ 5.3 18			<b>378291</b>	2007 <i>ER</i> <sub>146</sub>		9 1.6 208°21	2°2/ 30.7 17		
7 30	23 6.40	+ 4 37.3	2.251	3.070	13.1	20.5	7 30	23 9.78	-12 7.9	1.910	2.787	12.7	22.1
8 9	23 1.16	+ 4 39.5	2.175	3.074	10.4	20.3	8 9	23 3.96	-12 46.2	1.837	2.783	9.3	21.9
8 19	22 54.31	+ 4 26.4	2.121	3.079	7.3	20.1	8 19	22 56.13	-13 30.5	1.788	2.778	5.5	21.6
8 29	22 46.42	+ 3 59.0	2.093	3.083	4.5	19.9	8 29	22 46.97	-14 15.3	1.766	2.772	2.3	21.4
9 8	22 38.24	+ 3 20.4	2.093	3.087	3.7	19.9	9 8	22 37.42	-14 54.5	1.772	2.766	4.2	21.5
9 18	22 30.54	+ 2 35.0	2.121	3.091	5.9	20.1	9 18	22 28.48	-15 23.2	1.805	2.759	8.1	21.8
9 28	22 24.07	+ 1 47.7	2.177	3.094	8.9	20.2	9 28	22 21.08	-15 38.1	1.864	2.752	11.7	22.0
10 8	22 19.38	+ 1 3.6	2.256	3.097	11.7	20.4	10 8	22 15.89	-15 38.0	1.944	2.745	14.9	22.2
<b>40327</b>	1999 <i>MB</i>		9 1.6 337°57	7°6/ 27.2 18			<b>350506</b>	1999 <i>XP</i> <sub>131</sub>		9 1.6 303°63	3°5/ 29.8 18		
7 30	23 5.44	-20 2.0	1.082	2.001	16.8	17.7	7 30	23 7.84	-14 59.8	1.610	2.503	13.8	20.3
8 9	23 1.99	-21 21.5	1.026	1.989	12.7	17.4	8 9	23 3.04	-15 37.8	1.528	2.481	10.2	20.0
8 19	22 55.47	-22 42.7	0.990	1.979	9.0	17.2	8 19	22 55.84	-16 20.9	1.468	2.459	6.3	19.8
8 29	22 46.81	-23 52.7	0.976	1.969	7.6	17.1	8 29	22 46.95	-17 2.4	1.433	2.436	3.6	19.6
9 8	22 37.54	-24 39.3	0.984	1.960	10.2	17.2	9 8	22 37.41	-17 34.8	1.424	2.414	5.7	19.6
9 18	22 29.30	-24 55.1	1.012	1.953	14.5	17.4	9 18	22 28.43	-17 52.5	1.441	2.393	9.9	19.8
9 28	22 23.55	-24 38.1	1.060	1.947	18.7	17.6	9 28	22 21.19	-17 51.8	1.480	2.371	14.0	20.0
10 8	22 21.14	-23 51.6	1.124	1.941	22.4	17.9	10 8	22 16.51	-17 32.3	1.540	2.350	17.7	20.2
<b>522845</b>	2016 <i>NF</i> <sub>85</sub>		9 1.6 308°16	3°3/ 29.7 18			<b>424496</b>	2008 <i>DO</i> <sub>45</sub>		9 1.6 57°59	3°8/ 30.1 17		
7 30	23 5.12	-12 38.0	1.519	2.416	14.3	21.2	7 30	23 11.67	-15 28.1	1.380	2.275	15.5	20.6
8 9	23 1.00	-13 42.3	1.449	2.404	10.4	21.0	8 9	23 5.77	-16 0.9	1.329	2.282	11.4	20.4
8 19	22 54.58	-14 55.5	1.401	2.393	6.2	20.7	8 19	22 57.32	-16 36.8	1.299	2.290	6.9	20.2
8 29	22 46.56	-16 9.8	1.378	2.382	3.3	20.5	8 29	22 47.28	-17 8.1	1.294	2.297	3.8	20.0
9 8	22 38.02	-17 16.1	1.381	2.372	5.7	20.6	9 8	22 36.98	-17 27.7	1.314	2.305	6.0	20.2
9 18	22 30.13	-18 6.8	1.408	2.362	10.0	20.9	9 18	22 27.75	-17 31.2	1.359	2.313	10.2	20.4
9 28	22 24.01	-18 37.1	1.459	2.352	14.1	21.1	9 28	22 20.71	-17 16.8	1.427	2.321	14.3	20.7
10 8	22 20.41	-18 45.3	1.529	2.342	17.7	21.3	10 8	22 16.52	-16 45.3	1.515	2.330	17.7	21.0
<b>515315</b>	2012 <i>XQ</i> <sub>6</sub>		9 1.6 232°60	10°2/ 17.9 18			<b>89928</b>	2002 <i>EB</i> <sub>70</sub>		9 1.6 73°06	0°8/ 2.7 18		
7 30	23 16.45	-44 40.6	2.661	3.482	11.3	22.2	7 30	23 0.91	- 3 0.5	2.969	3.818	9.5	19.7
8 9	23 8.85	-46 1.2	2.612	3.466	10.4	22.1	8 9	22 56.80	- 3 26.4	2.902	3.828	7.1	19.5
8 19	22 59.01	-47 5.9	2.587	3.449	10.2	22.1	8 19	22 51.60	- 4 0.6	2.859	3.839	4.4	19.4
8 29	22 47.71	-47 47.6	2.585	3.432	10.6	22.1	8 29	22 45.73	- 4 40.7	2.844	3.850	1.6	19.2
9 8	22 36.03	-48 1.6	2.606	3.414	11.6	22.2	9 8	22 39.71	- 5 23.3	2.858	3.861	1.7	19.2
9 18	22 25.11	-47 46.7	2.649	3.396	12.9	22.2	9 18	22 34.05	- 6 5.2	2.902	3.872	4.5	19.4
9 28	22 15.99	-47 4.6	2.712	3.376	14.2	22.3	9 28	22 29.25	- 6 42.9	2.973	3.882	7.1	19.6
10 8	22 9.34	-45 59.7	2.790	3.356	15.5	22.4	10 8	22 25.71	- 7 14.0	3.069	3.893	9.4	19.8
<b>349742</b>	2008 <i>YV</i> <sub>131</sub>		9 1.6 332°31	0°5/ 1.2 18			<b>259583</b>	2003 <i>UT</i> <sub>217</sub>		9 1.6 316°87	0°0/ 1.4 18		
7 30	23 5.56	- 7 21.0	1.537	2.422	14.8	21.0	7 30	23 4.50	- 6 48.1	2.110	2.979	12.0	20.4
8 9	23 1.24	- 7 44.4	1.466	2.414	11.0	20.7	8 9	22 59.95	- 7 3.0	2.028	2.968	8.9	20.2
8 19	22 54.67	- 8 19.5	1.416	2.407	6.5	20.5	8 19	22 53.72	- 7 26.6	1.970	2.957	5.3	20.0
8 29	22 46.58	- 9 1.5	1.391	2.400	1.7	20.1	8 29	22 46.34	- 7 55.7	1.939	2.947	1.4	19.7
9 8	22 38.02	- 9 43.9	1.391	2.393	3.4	20.2	9 8	22 38.60	- 8 26.0	1.935	2.937	2.6	19.7
9 18	22 30.12	-10 20.3	1.417	2.387	8.2	20.5	9 18	22 31.31	- 8 53.2	1.959	2.927	6.4	20.0
9 28	22 23.95	-10 45.5	1.467	2.381	12.6	20.8	9 28	22 25.26	- 9 13.5	2.008	2.917	10.0	20.2
10 8	22 20.23	-10 56.4	1.538	2.376	16.3	21.0	10 8	22 21.06	- 9 24.1	2.081	2.908	13.1	20.4
<b>387573</b>	2001 <i>TW</i> <sub>4</sub>		9 1.6 355°13	0°0/ 1.4 18			<b>223561</b>	2004 <i>EN</i> <sub>114</sub>		9 1.6 106°60	0°7/ 1.0 17		
7 30	23 3.01	- 6 13.8	1.093	1.997	18.0	20.1	7 30	23 7.92	- 6 33.5	1.589	2.466	14.8	20.7
8 9	22 59.97	- 6 28.1	1.034	1.991	13.4	19.8	8 9	23 2.74	- 7 22.2	1.533	2.477	10.9	20.5
8 19	22 54.17	- 6 58.7	0.993	1.986	8.1	19.5	8 19	22 55.44	- 8 23.4	1.499	2.488	6.4	20.2
8 29	22 46.48	- 7 40.1	0.974	1.982	2.2	19.2	8 29	22 46.79	- 9 30.8	1.490	2.498	1.6	20.0
9 8	22 38.24	- 8 24.2	0.977	1.980	3.8	19.3	9 8	22 37.87	-10 36.8	1.508	2.509	3.5	20.1
9 18	22 30.92	- 9 2.6	1.003	1.980	9.6	19.6	9 18	22 29.74	-11 34.3	1.553	2.519	8.0	20.4
9 28	22 25.83	- 9 28.2	1.050	1.981	14.8	19.9	9 28	22 23.39	-12 17.9	1.622	2.528	12.1	20.7
10 8	22 23.77	- 9 36.8	1.115	1.983	19.2	20.2	10 8	22 19.43	-12 44.7	1.713	2.538	15.5	20.9
<b>53040</b>	1998 <i>WN</i> <sub>18</sub>		9 1.6 243°55	2°9/ 3.9 18			<b>113185</b>	2002 <i>RF</i> <sub>106</sub>		9 1.6 296°			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>62659</b>	2000 <i>SU</i> <sub>365</sub>	9 1.6 277°28	0°8/31.8	18			<b>255296</b>	2005 <i>VD</i> <sub>116</sub>	9 1.6 159°02	0°1/ 1.5	18		
7 30	23 4.10	- 7 50.2	2.118	2.991	11.8	20.0	7 30	23 5.25	- 6 43.7	2.346	3.209	11.2	21.1
8 9	22 59.66	- 8 29.6	2.039	2.982	8.7	19.8	8 9	23 0.28	- 7 7.7	2.274	3.211	8.2	20.9
8 19	22 53.54	- 9 18.2	1.984	2.973	5.1	19.6	8 19	22 53.81	- 7 39.7	2.227	3.213	4.9	20.7
8 29	22 46.30	-10 11.7	1.956	2.964	1.4	19.3	8 29	22 46.38	- 8 16.5	2.207	3.215	1.3	20.4
9 8	22 38.70	-11 4.5	1.955	2.955	3.0	19.4	9 8	22 38.69	- 8 53.6	2.216	3.217	2.4	20.5
9 18	22 31.55	-11 51.6	1.983	2.946	6.8	19.6	9 18	22 31.48	- 9 27.2	2.253	3.219	5.9	20.8
9 28	22 25.64	-12 28.5	2.036	2.937	10.3	19.8	9 28	22 25.44	- 9 53.6	2.317	3.220	9.1	21.0
10 8	22 21.56	-12 52.4	2.112	2.928	13.3	20.0	10 8	22 21.08	-10 10.4	2.404	3.221	11.9	21.2
<b>273512</b>	2007 <i>BH</i> <sub>3</sub>	9 1.6 206°12	0°7/ 2.3	18			<b>513332</b>	2007 <i>GV</i> <sub>58</sub>	9 1.6 144°29	1°9/ 4.2	18		
7 30	23 8.10	- 3 31.7	1.970	2.827	13.3	22.0	7 30	23 2.80	+ 1 49.5	2.737	3.565	10.8	21.9
8 9	23 2.70	- 4 2.3	1.891	2.822	9.9	21.8	8 9	22 58.29	+ 1 16.8	2.663	3.573	8.3	21.8
8 19	22 55.39	- 4 45.9	1.834	2.817	6.1	21.5	8 19	22 52.55	+ 0 31.6	2.612	3.581	5.5	21.6
8 29	22 46.81	- 5 38.8	1.804	2.811	2.0	21.3	8 29	22 46.03	- 0 23.4	2.589	3.589	2.7	21.4
9 8	22 37.81	- 6 35.5	1.802	2.804	2.6	21.3	9 8	22 39.31	- 1 24.7	2.596	3.596	2.3	21.4
9 18	22 29.32	- 7 30.1	1.828	2.797	6.7	21.5	9 18	22 32.97	- 2 27.6	2.631	3.603	4.8	21.6
9 28	22 22.24	- 8 17.3	1.880	2.789	10.6	21.8	9 28	22 27.59	- 3 27.9	2.695	3.609	7.6	21.8
10 8	22 17.22	- 8 53.1	1.956	2.781	13.9	22.0	10 8	22 23.61	- 4 21.6	2.784	3.615	10.0	22.0
<b>371452</b>	2006 <i>SB</i> <sub>317</sub>	9 1.6 283°10	2°7/30.6	15			<b>129118</b>	2004 <i>XP</i> <sub>109</sub>	9 1.6 200°69	0°1/ 1.5	18		
7 30	23 8.47	-11 50.7	1.462	2.354	15.0	21.8	7 30	23 8.02	- 6 37.5	2.000	2.865	12.7	20.4
8 9	23 3.65	-12 35.3	1.385	2.338	11.1	21.5	8 9	23 2.58	- 7 2.4	1.925	2.863	9.4	20.2
8 19	22 56.28	-13 29.3	1.330	2.322	6.6	21.2	8 19	22 55.30	- 7 37.1	1.874	2.860	5.6	20.0
8 29	22 47.10	-14 25.5	1.299	2.306	2.8	21.0	8 29	22 46.81	- 8 17.5	1.849	2.857	1.5	19.7
9 8	22 37.26	-15 15.5	1.294	2.290	5.2	21.1	9 8	22 37.95	- 8 58.6	1.852	2.854	2.8	19.8
9 18	22 28.06	-15 52.2	1.315	2.273	10.0	21.3	9 18	22 29.64	- 9 35.5	1.884	2.850	6.8	20.1
9 28	22 20.76	-16 10.6	1.358	2.257	14.5	21.5	9 28	22 22.74	-10 3.8	1.941	2.846	10.5	20.3
10 8	22 16.21	-16 9.0	1.420	2.241	18.4	21.8	10 8	22 17.87	-10 20.7	2.021	2.841	13.7	20.5
<b>382028</b>	2011 <i>CB</i> <sub>11</sub>	9 1.6 331°06	1°1/ 2.3	18			<b>514048</b>	2014 <i>ON</i> <sub>37</sub>	9 1.6 123°20	3°6/ 5.6	18		
7 30	23 3.29	- 4 22.1	1.103	2.002	18.3	20.8	7 30	23 7.02	+ 5 16.4	2.642	3.447	11.8	21.7
8 9	23 0.39	- 4 27.4	1.030	1.983	13.9	20.4	8 9	23 1.39	+ 5 30.4	2.570	3.460	9.4	21.6
8 19	22 54.60	- 4 51.3	0.974	1.965	8.7	20.1	8 19	22 54.39	+ 5 31.4	2.522	3.472	6.7	21.4
8 29	22 46.69	- 5 30.2	0.940	1.947	2.9	19.7	8 29	22 46.53	+ 5 19.9	2.500	3.485	4.4	21.3
9 8	22 37.95	- 6 16.6	0.928	1.931	3.7	19.7	9 8	22 38.47	+ 4 58.3	2.507	3.497	3.7	21.3
9 18	22 29.91	- 7 1.9	0.938	1.917	9.7	20.0	9 18	22 30.86	+ 4 29.5	2.543	3.509	5.4	21.4
9 28	22 24.06	- 7 37.4	0.969	1.904	15.3	20.3	9 28	22 24.33	+ 3 57.6	2.607	3.520	7.8	21.6
10 8	22 21.41	- 7 57.1	1.018	1.892	20.1	20.5	10 8	22 19.35	+ 3 26.4	2.696	3.531	10.2	21.7
<b>391315</b>	2006 <i>TT</i> <sub>69</sub>	9 1.6 22°70	9°0/26.1	18			<b>469179</b>	2016 <i>EW</i> <sub>151</sub>	9 1.6 86°97	0°7/ 1.1	17		
7 30	23 12.60	-30 17.2	1.588	2.476	14.3	20.0	7 30	23 9.05	- 5 39.3	1.328	2.211	16.8	21.2
8 9	23 6.29	-31 6.4	1.548	2.482	11.6	19.8	8 9	23 3.82	- 6 38.7	1.282	2.229	12.3	21.0
8 19	22 57.54	-31 43.5	1.529	2.488	9.5	19.7	8 19	22 56.17	- 7 53.5	1.256	2.246	7.2	20.8
8 29	22 47.34	-31 59.8	1.534	2.495	9.1	19.7	8 29	22 47.03	- 9 15.7	1.255	2.264	1.8	20.5
9 8	22 37.03	-31 49.8	1.563	2.502	10.5	19.8	9 8	22 37.67	-10 35.7	1.280	2.281	3.8	20.7
9 18	22 27.88	-31 12.5	1.615	2.510	13.0	20.0	9 18	22 29.33	-11 44.5	1.330	2.298	8.9	21.0
9 28	22 20.95	-30 10.4	1.689	2.519	15.6	20.2	9 28	22 23.09	-12 36.0	1.404	2.314	13.3	21.3
10 8	22 16.80	-28 48.3	1.781	2.528	18.0	20.4	10 8	22 19.57	-13 7.5	1.498	2.330	17.0	21.6
<b>468981</b>	2015 <i>AU</i> <sub>125</sub>	9 1.6 62°07	4°1/ 4.6	17			<b>71462</b>	2000 <i>BP</i> <sub>4</sub>	9 1.6 219°34	0°6/ 1.1	18		
7 30	23 11.21	+ 2 15.6	1.355	2.208	18.3	20.0	7 30	23 10.28	- 9 4.4	2.101	2.966	12.2	19.2
8 9	23 5.29	+ 2 34.4	1.309	2.231	14.2	19.8	8 9	23 4.18	- 9 12.8	2.022	2.961	9.0	19.0
8 19	22 56.96	+ 2 32.5	1.283	2.254	9.7	19.6	8 19	22 56.23	- 9 27.6	1.967	2.955	5.3	18.8
8 29	22 47.20	+ 2 11.7	1.280	2.277	5.4	19.5	8 29	22 47.06	- 9 45.4	1.940	2.948	1.4	18.5
9 8	22 37.26	+ 1 37.0	1.302	2.300	4.5	19.5	9 8	22 37.53	-10 2.1	1.941	2.942	2.9	18.6
9 18	22 28.40	+ 0 55.3	1.349	2.323	8.0	19.7	9 18	22 28.54	-10 14.0	1.971	2.935	6.8	18.8
9 28	22 21.68	+ 0 13.9	1.420	2.346	12.0	20.0	9 28	22 20.95	-10 18.2	2.027	2.927	10.4	19.0
10 8	22 17.69	- 0 21.0	1.513	2.369	15.6	20.3	10 8	22 15.38	-10 12.8	2.107	2.920	13.5	19.2
<b>289084</b>	2004 <i>TB</i> <sub>243</sub>	9 1.6 280°15	5°3/26.9	18			<b>97014</b>	1999 <i>TV</i> <sub>260</sub>	9 1.6 328°22	8°3/27.2	18		
7 30	23 5.51	-17 29.1	1.742	2.638	12.8	20.4	7 30	23 12.09	-26 19.1	1.415	2.312	15.1	18.5
8 9	23 1.26	-19 10.2	1.663	2.616	9.5	20.1	8 9	23 6.45	-27 1.3	1.352	2.297	11.9	18.3
8 19	22 54.78	-20 57.8	1.607	2.593	6.4	19.9	8 19	22 57.96	-27 35.7	1.309	2.283	9.2	18.1
8 29	22 46.70	-22 42.2	1.579	2.570	5.4	19.8	8 29	22 47.57	-27 52.5	1.290	2.269	8.3	18.0
9 8	22 37.98	-24 13.3	1.576	2.547	7.7	19.9	9 8	22 36.68	-27 44.2	1.295	2.256	10.1	18.1
9 18	22 29.71	-25 23.1	1.600	2.524	11.2	20.0	9 18	22 26.77	-27 7.8	1.323	2.244	13.4	18.2
9 28	22 23.01	-26 6.9	1.646	2.501	14.8	20.2	9 28	22 19.18	-26 4.6	1.372	2.232	16.9	18.4
10 8	22 18.67	-26 24.0	1.711	2.478	17.9	20.4	10 8	22 14.68	-24 39.2	1.439	2.222	20.0	18.6
<b>102855</b>	1999 <i>VM</i> <sub>223</sub>	9 1.6 298°92	1°4/31.4	18			<b>75416</b>	1999 <i>XU</i> <sub>115</sub>	9 1.6 21°70	11°3/10.3	18		
7 30	23 4.77	- 6 59.7	1.390	2.280	15.8	19.6	7 30	23 4.88	+14 50.6	1.112	1.934	23.4	17.7
8 9	23 0.93	- 8 5.1	1.318	2.270	11.6	19.3	8 9	23 1.36	+16 2.7	1.060	1.941	20.1	17.5
8 19	22 54.65	- 9 27.1	1.269	2.261	6.8	19.0	8 19	22 55.03	+16 39.3	1.022	1.950	16.5	17.3
8 29	22 46.67	-10 58.1	1.243	2.251	1.9	18.7	8 29	22 46.80	+16 35.8	1.003	1.960	13.2	17.1
9 8	22 38.10	-12 28.1	1.243	2.242	4.4	18.8	9 8	22 38.04	+15 53.8	1.003	1.971	11.4	17.1
9 18	22 30.21	-13 47.2	1.268	2.233	9.5	19.1	9 18	22 30.25	+14 40.4	1.024	1.983	12.1	17.2
9 28	22 24.17	-14 47.7	1.315	2.224	14.2	19.3	9 28	22 24.76	+13 8.2	1.066	1.996	14.7	17.4
10 8	22 20.80	-15 25.6	1.383	2.216	18.1	19.6	10 8	22 22.39	+11 31.3	1.127	2.010	17.8	17.6
<b>193572</b>	2001 <i>AW</i> <sub>40</sub>	9 1.6 26											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>319256</b>	2006 <i>AM</i> <sub>84</sub>		9 1.6 242°05	0°4/ 1.2 18			<b>488681</b>	2003 <i>UM</i> <sub>325</sub>		9 1.6 349°75	10°2/ 9.9 16		
7 30	23 8.77	- 9 11.8	2.585	3.444	10.4	20.8	7 30	22 55.78	+12 59.9	1.094	1.939	22.3	21.1
8 9	23 2.80	- 9 13.8	2.498	3.434	7.7	20.6	8 9	22 54.79	+13 48.7	1.023	1.924	19.1	20.8
8 19	22 55.32	- 9 20.7	2.437	3.423	4.5	20.4	8 19	22 51.25	+14 2.5	0.967	1.910	15.5	20.6
8 29	22 46.82	- 9 29.8	2.404	3.412	1.2	20.1	8 29	22 45.84	+13 36.9	0.929	1.899	12.1	20.4
9 8	22 38.01	- 9 38.2	2.400	3.400	2.4	20.2	9 8	22 39.73	+12 33.2	0.910	1.890	10.2	20.2
9 18	22 29.60	- 9 43.0	2.426	3.389	5.8	20.4	9 18	22 34.27	+10 58.6	0.911	1.883	11.2	20.3
9 28	22 22.29	- 9 41.9	2.480	3.377	8.8	20.6	9 28	22 30.84	+ 9 6.5	0.932	1.878	14.4	20.4
10 8	22 16.64	- 9 33.4	2.558	3.365	11.5	20.8	10 8	22 30.34	+ 7 12.2	0.973	1.876	18.2	20.6
<b>40370</b>	1999 <i>NZ</i> <sub>28</sub>		9 1.6 4°26	3°4/ 3.6 18 R			<b>437966</b>	2003 <i>EE</i> <sub>33</sub>		9 1.6 283°51	2°8/ 4.6 18		
7 30	23 8.24	- 1 20.0	1.125	2.007	19.3	18.1	7 30	23 3.27	+ 5 53.6	1.667	2.504	16.2	20.6
8 9	23 3.80	- 0 50.3	1.065	2.006	14.9	17.9	8 9	22 59.68	+ 4 36.3	1.565	2.479	12.8	20.3
8 19	22 56.48	- 0 39.5	1.024	2.006	9.8	17.6	8 19	22 53.93	+ 2 48.3	1.485	2.454	8.7	20.0
8 29	22 47.20	- 0 46.2	1.004	2.007	4.8	17.3	8 29	22 46.56	+ 0 32.5	1.429	2.429	4.4	19.7
9 8	22 37.36	- 1 5.7	1.007	2.009	4.3	17.3	9 8	22 38.46	- 2 2.7	1.401	2.403	3.3	19.6
9 18	22 28.50	- 1 31.4	1.033	2.011	9.1	17.6	9 18	22 30.70	- 4 45.1	1.402	2.377	7.6	19.8
9 28	22 21.97	- 1 55.9	1.081	2.015	14.1	17.9	9 28	22 24.40	- 7 21.0	1.429	2.351	12.3	20.0
10 8	22 18.62	- 2 12.7	1.148	2.019	18.5	18.2	10 8	22 20.40	- 9 39.1	1.480	2.325	16.5	20.2
<b>363975</b>	2005 <i>UU</i> <sub>154</sub>		9 1.6 146°05	8°7/19.5 18			<b>295373</b>	2008 <i>HG</i> <sub>60</sub>		9 1.6 88°93	3°3/ 5.7 18		
7 30	23 12.56	-43 35.2	3.017	3.842	10.0	21.7	7 30	23 2.05	+ 6 19.3	2.242	3.060	13.2	20.4
8 9	23 5.56	-44 44.2	2.993	3.852	9.1	21.6	8 9	22 58.04	+ 5 42.4	2.167	3.066	10.4	20.2
8 19	22 56.87	-45 38.6	2.993	3.862	8.7	21.6	8 19	22 52.55	+ 4 47.0	2.114	3.072	7.3	20.0
8 29	22 47.20	-46 13.1	3.017	3.872	9.0	21.6	8 29	22 46.10	+ 3 35.5	2.087	3.078	4.4	19.8
9 8	22 37.42	-46 24.6	3.065	3.881	9.8	21.7	9 8	22 39.40	+ 2 12.7	2.088	3.084	3.4	19.8
9 18	22 28.38	-46 12.7	3.136	3.889	10.9	21.8	9 18	22 33.15	+ 0 44.6	2.117	3.090	5.6	19.9
9 28	22 20.84	-45 38.9	3.227	3.897	12.1	21.9	9 28	22 28.04	- 0 42.1	2.173	3.095	8.7	20.1
10 8	22 15.30	-44 46.4	3.335	3.905	13.1	22.0	10 8	22 24.59	- 2 1.4	2.255	3.101	11.5	20.3
<b>339110</b>	2004 <i>RV</i> <sub>218</sub>		9 1.6 351°02	6°6/ 5.6 18			<b>468491</b>	2005 <i>GB</i> <sub>44</sub>		9 1.6 144°40	1°4/31.5 17		
7 30	23 8.31	+ 4 51.4	1.351	2.199	18.7	19.7	7 30	23 13.41	-10 29.4	1.732	2.605	14.0	21.6
8 9	23 3.61	+ 5 53.8	1.280	2.193	15.1	19.5	8 9	23 6.66	-10 52.7	1.672	2.614	10.2	21.4
8 19	22 56.30	+ 6 36.2	1.228	2.189	11.2	19.2	8 19	22 57.76	-11 22.8	1.635	2.623	6.0	21.1
8 29	22 47.16	+ 6 56.4	1.198	2.185	7.7	19.0	8 29	22 47.51	-11 54.4	1.624	2.632	1.9	20.9
9 8	22 37.39	+ 6 55.5	1.192	2.182	6.7	19.0	9 8	22 36.99	-12 21.9	1.642	2.640	3.8	21.0
9 18	22 28.33	+ 6 37.6	1.210	2.180	9.2	19.1	9 18	22 27.31	-12 40.7	1.687	2.647	8.0	21.3
9 28	22 21.27	+ 6 9.8	1.250	2.179	13.1	19.3	9 28	22 19.45	-12 47.7	1.757	2.654	11.9	21.6
10 8	22 17.05	+ 5 40.0	1.311	2.179	16.9	19.6	10 8	22 14.03	-12 41.8	1.849	2.660	15.1	21.8
<b>100106</b>	1993 <i>FW</i> <sub>35</sub>		9 1.6 74°98	1°8/ 3.7 18			<b>224182</b>	2005 <i>QF</i> <sub>163</sub>		9 1.6 342°96	7°5/27.8 18		
7 30	23 2.72	+ 1 11.8	2.063	2.909	13.2	19.7	7 30	23 3.16	-20 5.7	1.000	1.926	17.3	18.8
8 9	22 58.62	+ 0 29.4	1.993	2.915	10.1	19.5	8 9	23 0.56	-21 6.4	0.942	1.909	13.1	18.5
8 19	22 52.92	+ 0 29.2	1.945	2.920	6.5	19.3	8 19	22 54.81	-22 8.2	0.903	1.894	9.1	18.3
8 29	22 46.19	- 1 40.5	1.924	2.926	3.0	19.1	8 29	22 46.81	-22 58.7	0.884	1.880	7.6	18.1
9 8	22 39.18	- 2 58.8	1.930	2.932	2.5	19.0	9 8	22 38.13	-23 26.2	0.886	1.868	10.1	18.2
9 18	22 32.68	- 4 17.7	1.964	2.938	5.9	19.3	9 18	22 30.46	-23 23.5	0.908	1.858	14.6	18.5
9 28	22 27.43	- 5 30.9	2.025	2.944	9.4	19.5	9 28	22 25.34	-22 49.0	0.949	1.849	19.1	18.7
10 8	22 23.97	- 6 33.3	2.110	2.949	12.5	19.7	10 8	22 23.65	-21 45.9	1.005	1.843	23.0	18.9
<b>68799</b>	2002 <i>GZ</i> <sub>16</sub>		9 1.6 65°87	0°9/ 2.6 18			<b>328066</b>	2007 <i>VQ</i> <sub>124</sub>		9 1.6 185°21	3°0/ 4.1 17		
7 30	23 3.52	- 2 31.4	2.119	2.977	12.4	19.5	7 30	23 8.86	+ 1 41.4	1.607	2.455	16.2	21.6
8 9	22 59.10	- 3 6.1	2.059	2.990	9.3	19.4	8 9	23 3.61	+ 1 30.2	1.534	2.455	12.5	21.3
8 19	22 53.14	- 3 53.0	2.022	3.004	5.7	19.2	8 19	22 56.12	+ 0 59.6	1.482	2.455	8.4	21.1
8 29	22 46.24	- 4 48.3	2.012	3.018	2.0	19.0	8 29	22 47.11	+ 0 12.2	1.455	2.455	4.3	20.8
9 8	22 39.13	- 5 46.9	2.029	3.032	2.3	19.0	9 8	22 37.63	- 0 46.7	1.453	2.454	3.6	20.8
9 18	22 32.58	- 6 43.3	2.075	3.046	5.9	19.3	9 18	22 28.81	- 1 50.0	1.478	2.452	7.4	21.0
9 28	22 27.29	- 7 32.9	2.147	3.060	9.2	19.5	9 28	22 21.72	- 2 50.3	1.529	2.451	11.6	21.3
10 8	22 23.74	- 8 12.0	2.242	3.074	12.1	19.7	10 8	22 17.08	- 3 41.1	1.601	2.449	15.4	21.5
<b>276582</b>	2003 <i>SS</i> <sub>309</sub>		9 1.6 331°69	0°6/ 2.1 17			<b>516111</b>	2015 <i>UW</i> <sub>22</sub>		9 1.6 346°94	1°5/ 3.2 18		
7 30	23 4.45	- 5 39.0	1.851	2.723	13.3	20.7	7 30	23 0.44	- 0 9.7	1.726	2.591	14.4	20.8
8 9	23 0.18	- 5 43.3	1.768	2.709	9.9	20.4	8 9	22 57.31	- 0 53.1	1.651	2.584	11.0	20.5
8 19	22 54.01	- 5 58.0	1.708	2.695	6.1	20.2	8 19	22 52.32	- 1 55.2	1.597	2.578	7.0	20.3
8 29	22 46.52	- 6 20.1	1.674	2.681	1.9	19.9	8 29	22 46.07	- 3 11.8	1.568	2.573	2.9	20.0
9 8	22 38.58	- 6 45.3	1.666	2.668	2.7	19.9	9 8	22 39.43	- 4 36.1	1.565	2.568	2.7	20.0
9 18	22 31.12	- 7 9.0	1.684	2.656	6.9	20.2	9 18	22 33.31	- 6 0.4	1.589	2.564	6.9	20.3
9 28	22 25.06	- 7 26.7	1.728	2.644	10.9	20.4	9 28	22 28.59	- 7 16.8	1.638	2.561	10.9	20.5
10 8	22 21.07	- 7 35.1	1.794	2.634	14.3	20.6	10 8	22 25.91	- 8 19.5	1.709	2.558	14.5	20.7
<b>108525</b>	2001 <i>LV</i> <sub>1</sub>		9 1.6 38°38	1°2/31.9 18			<b>37230</b>	2000 <i>WA</i> <sub>147</sub>		9 1.6 217°12	0°3/ 2.0 18		
7 30	23 8.42	- 8 42.9	1.146	2.045	17.7	18.8	7 30	23 2.98	- 3 40.9	2.335	3.193	11.4	19.3
8 9	23 3.62	- 9 8.2	1.104	2.060	12.9	18.5	8 9	22 58.71	- 4 28.6	2.256	3.189	8.5	19.1
8 19	22 56.15	- 9 45.4	1.083	2.075	7.5	18.3	8 19	22 52.96	- 5 28.0	2.202	3.186	5.1	18.9
8 29	22 47.06	-10 27.3	1.084	2.092	2.0	18.0	8 29	22 46.24	- 6 35.1	2.175	3.182	1.5	18.6
9 8	22 37.78	-11 5.7	1.108	2.109	4.3	18.2	9 8	22 39.21	- 7 44.7	2.176	3.179	2.3	18.7
9 18	22 29.69	-11 33.7	1.157	2.127	9.5	18.6	9 18	22 32.59	- 8 51.5	2.207	3.175	5.8	18.9
9 28	22 23.94	-11 46.8	1.227	2.146	14.2	18.9	9 28	22 27.07	- 9 50.4	2.264	3.171	9.1	19.1
10 8	22 21.14	-11 43.4	1.317	2.165	18.0	19.2	10 8	22 23.17	-10 37.8	2.345	3.166	12.0	19.3
<b>209127</b>	2003 <i>SR</i> <sub>204</sub>		9 1.6 335°81	8°6/27.0 18			<b>279732</b>	1995 <i>UC</i> <sub>66</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>188781</b>	2005 <i>UA</i> <sub>517</sub>		9 1.6 23°95	1.6°/ 2.9	16		<b>490377</b>	2009 <i>KY</i> <sub>3</sub>		9 1.6 54°77	3°5/ 4.4	17	
7 30	23 1.95	- 0 21.0	1.141	2.028	18.7	20.9	7 30	23 8.14	+ 2 30.1	1.180	2.046	19.6	20.9
8 9	22 58.99	- 1 8.2	1.091	2.036	14.1	20.6	8 9	23 3.33	+ 2 14.1	1.139	2.069	15.1	20.7
8 19	22 53.52	- 2 19.9	1.060	2.046	8.8	20.4	8 19	22 55.98	+ 1 33.2	1.116	2.092	10.0	20.5
8 29	22 46.43	- 3 49.5	1.050	2.057	3.3	20.1	8 29	22 47.09	+ 0 31.7	1.115	2.116	5.1	20.3
9 8	22 38.98	- 5 26.4	1.065	2.068	3.4	20.1	9 8	22 38.03	- 0 41.8	1.138	2.139	4.1	20.3
9 18	22 32.49	- 6 58.8	1.103	2.081	8.7	20.5	9 18	22 30.12	- 1 57.6	1.186	2.163	8.3	20.6
9 28	22 28.07	- 8 16.8	1.163	2.095	13.6	20.8	9 28	22 24.44	- 3 6.2	1.256	2.187	12.8	21.0
10 8	22 26.40	- 9 14.1	1.243	2.109	17.7	21.1	10 8	22 21.60	- 4 0.8	1.347	2.212	16.7	21.3
<b>423939</b>	2006 <i>TP</i> <sub>124</sub>		9 1.6 307°18	6°0/28.2	15		<b>57996</b>	2002 <i>RV</i> <sub>107</sub>		9 1.6 359°73	6°0/29.4	18	
7 30	23 8.94	-18 48.7	1.339	2.243	15.3	21.0	7 30	23 5.48	-18 12.2	0.941	1.866	18.2	17.5
8 9	23 4.20	-19 52.3	1.275	2.231	11.5	20.8	8 9	23 2.21	-18 44.0	0.894	1.861	13.5	17.2
8 19	22 56.72	-20 58.2	1.233	2.220	7.7	20.5	8 19	22 55.71	-19 16.6	0.864	1.858	8.8	16.9
8 29	22 47.33	-21 56.2	1.214	2.209	6.0	20.4	8 29	22 47.09	-19 39.5	0.855	1.857	6.0	16.8
9 8	22 37.36	-22 36.7	1.219	2.198	8.3	20.5	9 8	22 38.00	-19 43.5	0.867	1.857	8.4	16.9
9 18	22 28.25	-22 53.3	1.248	2.188	12.3	20.7	9 18	22 30.18	-19 23.6	0.900	1.860	13.1	17.2
9 28	22 21.30	-22 43.6	1.298	2.178	16.4	20.9	9 28	22 25.06	-18 39.3	0.951	1.865	17.8	17.5
10 8	22 17.34	-22 9.5	1.366	2.168	19.9	21.2	10 8	22 23.37	-17 33.5	1.019	1.871	21.8	17.8
<b>255371</b>	2005 <i>WW</i> <sub>111</sub>		9 1.6 354°66	4°5/ 6.3	18		<b>416658</b>	2004 <i>TC</i> <sub>212</sub>		9 1.6 248°20	1°1/ 2.5	17	
7 30	23 2.55	+ 6 52.1	1.904	2.728	14.9	19.9	7 30	23 8.38	- 2 48.7	1.400	2.273	16.7	21.5
8 9	22 58.72	+ 6 48.7	1.826	2.726	12.0	19.7	8 9	23 3.60	- 3 14.8	1.328	2.268	12.6	21.2
8 19	22 53.11	+ 6 25.1	1.770	2.724	8.8	19.5	8 19	22 56.31	- 3 59.1	1.277	2.262	7.9	21.0
8 29	22 46.31	+ 5 42.4	1.737	2.723	5.7	19.3	8 29	22 47.25	- 4 57.1	1.249	2.256	2.7	20.6
9 8	22 39.14	+ 4 44.2	1.730	2.722	4.6	19.3	9 8	22 37.62	- 6 1.6	1.247	2.250	3.2	20.7
9 18	22 32.47	+ 3 36.4	1.750	2.722	6.7	19.4	9 18	22 28.69	- 7 4.2	1.270	2.243	8.4	21.0
9 28	22 27.13	+ 2 25.9	1.795	2.722	9.9	19.6	9 28	22 21.70	- 7 57.1	1.317	2.237	13.3	21.2
10 8	22 23.74	+ 1 19.6	1.864	2.722	13.0	19.8	10 8	22 17.44	- 8 34.9	1.384	2.230	17.4	21.5
<b>321944</b>	2010 <i>TF</i> <sub>151</sub>		9 1.6 313°41	0°0/ 1.5	17		<b>284055</b>	2005 <i>CA</i> <sub>13</sub>		9 1.6 292°40	4°0/28.6	18	
7 30	23 7.15	- 7 44.7	1.859	2.733	13.2	21.2	7 30	23 4.45	-14 18.6	1.701	2.596	13.1	20.3
8 9	23 2.22	- 7 46.8	1.774	2.716	9.8	21.0	8 9	23 0.42	-15 43.6	1.630	2.584	9.6	20.1
8 19	22 55.28	- 7 57.1	1.711	2.698	5.9	20.7	8 19	22 54.29	-17 16.2	1.582	2.572	6.0	19.8
8 29	22 46.93	- 8 12.6	1.674	2.682	1.6	20.4	8 29	22 46.70	-18 48.0	1.560	2.561	4.0	19.7
9 8	22 38.07	- 8 28.9	1.663	2.665	2.9	20.4	9 8	22 38.61	-20 9.7	1.565	2.549	6.2	19.8
9 18	22 29.69	- 8 41.8	1.680	2.649	7.2	20.7	9 18	22 31.08	-21 13.9	1.596	2.538	10.0	20.0
9 28	22 22.77	- 8 47.6	1.722	2.634	11.2	20.9	9 28	22 25.12	-21 55.8	1.650	2.526	13.7	20.2
10 8	22 18.01	- 8 43.7	1.787	2.618	14.7	21.1	10 8	22 21.45	-22 14.2	1.724	2.515	16.9	20.4
<b>447073</b>	2004 <i>RK</i> <sub>356</sub>		9 1.6 298°74	1°4/ 3.1	17		<b>451994</b>	2014 <i>OH</i> <sub>20</sub>		9 1.6 50°10	1°5/31.1	18	
7 30	23 2.88	- 1 25.6	2.145	2.999	12.4	21.4	7 30	23 3.63	- 9 21.6	1.977	2.858	12.2	21.2
8 9	22 58.82	- 1 51.6	2.058	2.987	9.4	21.2	8 9	22 59.31	-10 14.5	1.925	2.872	8.8	21.0
8 19	22 53.13	- 2 31.1	1.995	2.975	6.0	20.9	8 19	22 53.34	-11 15.1	1.897	2.887	5.1	20.8
8 29	22 46.33	- 3 21.3	1.958	2.963	2.4	20.7	8 29	22 46.38	-12 17.8	1.895	2.902	1.7	20.6
9 8	22 39.14	- 4 17.6	1.949	2.951	2.4	20.7	9 8	22 39.23	-13 16.5	1.920	2.917	3.5	20.8
9 18	22 32.34	- 5 14.7	1.967	2.939	6.0	20.9	9 18	22 32.70	-14 5.9	1.973	2.933	7.1	21.0
9 28	22 26.71	- 6 7.2	2.011	2.928	9.6	21.1	9 28	22 27.53	-14 42.2	2.051	2.948	10.4	21.3
10 8	22 22.84	- 6 50.6	2.080	2.917	12.7	21.3	10 8	22 24.23	-15 3.6	2.152	2.964	13.2	21.5
<b>353192</b>	2009 <i>ST</i> <sub>50</sub>		9 1.6 286°34	1°5/30.0	16		<b>251722</b>	1997 <i>US</i> <sub>2</sub>		9 1.6 148°88	1°9/31.1	13 C	
7 30	22 59.85	-14 52.3	4.198	5.070	6.5	20.9	7 30	23 24.12	- 8 55.7	1.810	2.658	14.6	23.9
8 9	22 55.85	-15 13.3	4.121	5.064	4.7	20.8	8 9	23 14.42	-10 10.3	1.752	2.682	10.7	23.7
8 19	22 51.04	-15 35.4	4.071	5.058	2.8	20.7	8 19	23 2.35	-11 34.1	1.719	2.703	6.2	23.5
8 29	22 45.72	-15 56.5	4.050	5.052	1.5	20.6	8 29	22 48.83	-12 59.2	1.716	2.722	2.1	23.3
9 8	22 40.25	-16 14.4	4.058	5.047	2.5	20.6	9 8	22 35.07	-14 16.9	1.744	2.738	4.2	23.5
9 18	22 35.03	-16 27.2	4.096	5.041	4.3	20.8	9 18	22 22.33	-15 20.5	1.803	2.752	8.5	23.8
9 28	22 30.41	-16 33.5	4.162	5.035	6.1	20.9	9 28	22 11.69	-16 6.0	1.890	2.763	12.4	24.0
10 8	22 26.70	-16 32.5	4.252	5.030	7.8	21.0	10 8	22 3.80	-16 32.6	2.000	2.772	15.5	24.3
<b>9210</b>	1995 <i>BW</i> <sub>2</sub>		9 1.6 289°23	0°6/ 1.1	18		<b>351167</b>	2004 <i>BQ</i> <sub>3</sub>		9 1.6 275°16	2°2/30.5	18	
7 30	23 6.40	- 8 37.1	2.198	3.067	11.6	18.4	7 30	23 6.40	-11 49.8	1.929	2.811	12.4	21.2
8 9	23 1.44	- 8 54.0	2.105	3.045	8.6	18.1	8 9	23 1.64	-12 35.6	1.847	2.795	9.1	21.0
8 19	22 54.73	- 9 18.4	2.035	3.023	5.1	17.9	8 19	22 54.93	-13 28.7	1.788	2.779	5.4	20.7
8 29	22 46.78	- 9 46.7	1.993	3.001	1.4	17.6	8 29	22 46.87	-14 23.6	1.756	2.762	2.3	20.5
9 8	22 38.36	-10 14.7	1.978	2.979	2.8	17.6	9 8	22 38.32	-15 13.7	1.752	2.746	4.3	20.6
9 18	22 30.31	-10 38.3	1.992	2.956	6.7	17.9	9 18	22 30.25	-15 53.5	1.774	2.729	8.2	20.8
9 28	22 23.46	-10 53.7	2.032	2.934	10.2	18.0	9 28	22 23.58	-16 18.8	1.822	2.712	11.9	21.0
10 8	22 18.45	-10 58.7	2.095	2.911	13.4	18.2	10 8	22 19.00	-16 27.8	1.891	2.696	15.1	21.2
<b>98630</b>	2000 <i>WW</i> <sub>99</sub>		9 1.6 305°62	1°6/ 2.9	18		<b>404521</b>	2013 <i>HR</i> <sub>98</sub>		9 1.6 111°15	0°9/ 2.7	18	
7 30	23 5.36	- 2 23.2	1.532	2.403	15.6	19.2	7 30	23 4.26	- 2 41.5	2.363	3.215	11.5	22.1
8 9	23 1.38	- 2 36.0	1.441	2.379	12.0	18.9	8 9	22 59.57	- 3 7.2	2.295	3.223	8.6	21.9
8 19	22 55.03	- 3 5.7	1.371	2.355	7.6	18.6	8 19	22 53.45	- 3 43.7	2.250	3.231	5.3	21.7
8 29	22 46.92	- 3 49.7	1.325	2.330	3.0	18.3	8 29	22 46.42	- 4 27.9	2.233	3.239	2.0	21.5
9 8	22 38.06	- 4 42.2	1.303	2.306	3.1	18.2	9 8	22 39.17	- 5 15.6	2.244	3.246	2.1	21.6
9 18	22 29.63	- 5 36.4	1.308	2.283	8.1	18.4	9 18	22 32.40	- 6 2.4	2.283	3.254	5.5	21.8
9 28	22 22.83	- 6 24.8	1.336	2.260	12.8	18.7	9 28	22 26.76	- 6 44.0	2.350	3.261	8.6	22.0
10 8	22 18.57	- 7 1.3	1.385	2.237	17.1	18.9	10 8	22 22.73	- 7 17.1	2.441	3.269	11.4	22.2
<b>386322</b>	2008 <i>SG</i> <sub>116</sub>		9 1.6 267°38	0°1/ 1.8	18		<b>444969</b>	2008 <i>EO</i> <sub>25</sub>		9 1.6 107°			

EPHEMERIDES

9 1.7

9 1.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>147747</b>	2005 <i>NY</i> <sub>83</sub>		9 1.7 114°48	0°1/ 1.8 18			<b>277441</b>	2005 <i>UN</i> <sub>443</sub>		9 1.7 358°79	0°3/ 1.4 18		
7 30	23 4.81	- 5 5.3	2.040	2.905	12.5	20.5	7 30	23 5.86	- 7 53.6	1.626	2.509	14.3	20.1
8 9	23 0.23	- 5 39.2	1.970	2.907	9.3	20.3	8 9	23 1.37	- 8 1.6	1.560	2.506	10.5	19.8
8 19	22 53.95	- 6 24.1	1.923	2.908	5.6	20.1	8 19	22 54.80	- 8 19.0	1.515	2.505	6.3	19.6
8 29	22 46.58	- 7 16.1	1.902	2.910	1.6	19.8	8 29	22 46.86	- 8 41.9	1.496	2.504	1.6	19.3
9 8	22 38.91	- 8 9.7	1.909	2.911	2.5	19.9	9 8	22 38.55	- 9 4.9	1.502	2.504	3.1	19.4
9 18	22 31.76	- 8 59.6	1.944	2.913	6.4	20.2	9 18	22 30.92	- 9 23.3	1.534	2.505	7.6	19.7
9 28	22 25.92	- 9 41.1	2.005	2.914	10.0	20.4	9 28	22 24.95	- 9 32.9	1.591	2.506	11.7	19.9
10 8	22 21.96	-10 11.0	2.090	2.916	13.1	20.6	10 8	22 21.28	- 9 31.3	1.669	2.508	15.2	20.1
<b>253612</b>	2003 <i>UT</i> <sub>50</sub>		9 1.7 148°46	0°1/ 1.5 18			<b>264971</b>	2003 <i>AM</i> <sub>80</sub>		9 1.7 77°15	5°0/ 3.3 16		
7 30	23 12.45	- 7 22.8	1.499	2.374	15.7	20.2	7 30	23 24.84	- 2 53.2	1.016	1.884	21.9	19.4
8 9	23 6.34	- 7 31.8	1.435	2.378	11.6	20.0	8 9	23 16.39	- 1 15.7	0.960	1.892	17.0	19.1
8 19	22 57.79	- 7 51.6	1.393	2.381	6.9	19.7	8 19	23 4.19	+ 0 8.7	0.923	1.900	11.4	18.8
8 29	22 47.65	- 8 17.4	1.376	2.384	1.8	19.4	8 29	22 49.46	+ 1 17.1	0.908	1.908	6.1	18.6
9 8	22 37.10	- 8 43.7	1.385	2.387	3.3	19.5	9 8	22 34.16	+ 2 8.6	0.918	1.916	5.9	18.6
9 18	22 27.42	- 9 4.8	1.420	2.389	8.3	19.8	9 18	22 20.39	+ 2 44.8	0.952	1.924	10.8	18.9
9 28	22 19.72	- 9 16.4	1.480	2.391	12.7	20.1	9 28	22 9.86	+ 3 10.7	1.009	1.932	16.0	19.2
10 8	22 14.72	- 9 16.1	1.561	2.393	16.4	20.3	10 8	22 3.47	+ 3 32.4	1.084	1.940	20.5	19.5
<b>113566</b>	2002 <i>TG</i> <sub>36</sub>		9 1.7 292°68	0°2/ 1.9 18			<b>51425</b>	2001 <i>FV</i> <sub>1</sub>		9 1.7 61°40	4°1/ 29.6 18		
7 30	23 4.14	- 4 8.4	1.899	2.766	13.2	19.5	7 30	23 9.22	-14 7.8	1.289	2.190	16.0	18.5
8 9	22 59.88	- 4 53.6	1.826	2.764	9.8	19.3	8 9	23 4.08	-15 15.1	1.249	2.206	11.6	18.3
8 19	22 53.82	- 5 52.2	1.777	2.763	5.9	19.0	8 19	22 56.44	-16 27.7	1.230	2.222	7.0	18.1
8 29	22 46.56	- 6 59.7	1.753	2.761	1.7	18.7	8 29	22 47.28	-17 35.9	1.236	2.239	4.1	18.0
9 8	22 38.95	- 8 9.6	1.757	2.760	2.7	18.8	9 8	22 37.93	-18 30.3	1.266	2.255	6.5	18.2
9 18	22 31.87	- 9 15.5	1.789	2.758	6.8	19.1	9 18	22 29.70	-19 4.7	1.321	2.272	10.7	18.5
9 28	22 26.17	-10 11.6	1.846	2.757	10.6	19.3	9 28	22 23.66	-19 16.5	1.397	2.289	14.7	18.7
10 8	22 22.44	-10 53.8	1.926	2.755	13.9	19.5	10 8	22 20.43	-19 6.6	1.493	2.306	18.0	19.0
<b>345905</b>	2007 <i>RU</i> <sub>129</sub>		9 1.7 340°84	0°4/ 1.3 18			<b>324304</b>	2006 <i>DP</i> <sub>118</sub>		9 1.7 238°06	2°2/ 30.3 18		
7 30	23 4.19	- 6 19.1	1.565	2.448	14.7	20.3	7 30	23 8.10	-15 13.3	2.754	3.624	9.5	21.2
8 9	23 0.26	- 6 58.2	1.496	2.443	10.9	20.1	8 9	23 2.32	-15 34.0	2.671	3.612	6.9	21.0
8 19	22 54.19	- 7 50.7	1.448	2.438	6.4	19.8	8 19	22 55.09	-15 56.4	2.613	3.600	4.2	20.8
8 29	22 46.69	- 8 51.4	1.425	2.433	1.7	19.5	8 29	22 46.92	-16 16.7	2.584	3.587	2.2	20.7
9 8	22 38.74	- 9 52.8	1.427	2.429	3.3	19.6	9 8	22 38.46	-16 31.5	2.585	3.574	3.6	20.8
9 18	22 31.42	-10 47.8	1.456	2.425	8.1	19.9	9 18	22 30.40	-16 38.0	2.615	3.561	6.4	20.9
9 28	22 25.76	-11 30.3	1.508	2.422	12.3	20.2	9 28	22 23.39	-16 34.4	2.672	3.547	9.1	21.1
10 8	22 22.44	-11 56.6	1.582	2.420	16.0	20.4	10 8	22 17.95	-16 20.1	2.753	3.534	11.5	21.2
<b>451334</b>	2010 <i>VM</i> <sub>114</sub>		9 1.7 216°93	5°5/ 26.3 18			<b>190581</b>	2000 <i>SE</i> <sub>296</sub>		9 1.7 330°50	8°9/ 7.9 18		
7 30	23 7.61	-25 25.2	2.471	3.351	10.1	21.2	7 30	23 4.26	+10 54.0	1.370	2.195	19.6	18.1
8 9	23 2.10	-26 18.0	2.411	3.347	7.8	21.1	8 9	23 0.83	+11 53.7	1.288	2.178	16.6	17.8
8 19	22 54.98	-27 6.4	2.376	3.344	6.0	21.0	8 19	22 54.85	+12 28.1	1.223	2.162	13.3	17.6
8 29	22 46.86	-27 44.6	2.368	3.340	5.6	20.9	8 29	22 46.97	+12 33.2	1.178	2.146	10.3	17.4
9 8	22 38.48	-28 8.1	2.388	3.336	6.9	21.0	9 8	22 38.28	+12 8.9	1.155	2.132	8.9	17.3
9 18	22 30.66	-28 14.1	2.434	3.333	9.1	21.2	9 18	22 30.08	+11 19.6	1.154	2.118	10.4	17.3
9 28	22 24.13	-28 1.9	2.504	3.328	11.3	21.3	9 28	22 23.70	+10 13.7	1.176	2.106	13.6	17.5
10 8	22 19.40	-27 32.9	2.595	3.324	13.4	21.5	10 8	22 20.10	+ 9 2.1	1.218	2.094	17.3	17.6
<b>420412</b>	2012 <i>DH</i> <sub>10</sub>		9 1.7 120°23	2°3/ 30.9 17			<b>316558</b>	2011 <i>CR</i> <sub>29</sub>		9 1.7 136°93	0°2/ 1.9 17		
7 30	23 11.63	-11 17.4	1.605	2.486	14.5	21.6	7 30	23 8.71	- 4 42.5	1.797	2.661	14.0	21.3
8 9	23 5.49	-12 4.0	1.553	2.500	10.5	21.4	8 9	23 3.24	- 5 18.0	1.734	2.670	10.4	21.1
8 19	22 57.15	-12 57.8	1.524	2.514	6.2	21.2	8 19	22 55.80	- 6 5.9	1.694	2.679	6.2	20.9
8 29	22 47.45	-13 51.9	1.520	2.527	2.4	21.0	8 29	22 47.13	- 7 1.8	1.680	2.688	1.8	20.6
9 8	22 37.51	-14 39.1	1.544	2.539	4.5	21.2	9 8	22 38.15	- 7 59.2	1.693	2.696	2.8	20.7
9 18	22 28.49	-15 13.7	1.594	2.551	8.7	21.4	9 18	22 29.87	- 8 52.1	1.735	2.703	7.1	21.0
9 28	22 21.35	-15 32.3	1.669	2.563	12.6	21.7	9 28	22 23.17	- 9 35.2	1.802	2.710	11.0	21.2
10 8	22 16.72	-15 34.2	1.765	2.574	15.8	21.9	10 8	22 18.67	-10 5.2	1.891	2.717	14.3	21.5
<b>326222</b>	2012 <i>CQ</i> <sub>50</sub>		9 1.7 162°84	0°8/ 2.7 18			<b>95595</b>	2002 <i>FE</i> <sub>15</sub>		9 1.7 54°97	5°2/ 26.7 18		
7 30	23 3.40	- 2 47.9	2.783	3.629	10.1	22.0	7 30	23 4.40	-18 12.6	1.866	2.761	12.1	18.2
8 9	22 58.79	- 3 18.2	2.707	3.633	7.6	21.8	8 9	22 59.97	-20 7.2	1.835	2.787	8.8	18.0
8 19	22 52.94	- 3 58.0	2.657	3.636	4.7	21.6	8 19	22 53.78	-22 1.3	1.830	2.814	6.0	17.9
8 29	22 46.31	- 4 44.4	2.634	3.640	1.7	21.4	8 29	22 46.55	-23 45.7	1.852	2.840	5.2	17.9
9 8	22 39.45	- 5 33.8	2.640	3.643	1.9	21.4	9 8	22 39.18	-25 12.5	1.902	2.867	7.1	18.1
9 18	22 32.97	- 6 22.3	2.676	3.646	4.9	21.7	9 18	22 32.54	-26 16.8	1.977	2.894	9.9	18.3
9 28	22 27.43	- 7 6.2	2.740	3.648	7.7	21.8	9 28	22 27.43	-26 56.4	2.076	2.920	12.6	18.6
10 8	22 23.28	- 7 42.4	2.829	3.650	10.2	22.0	10 8	22 24.33	-27 12.7	2.195	2.947	14.9	18.8
<b>139778</b>	2001 <i>QZ</i> <sub>327</sub>		9 1.7 116°99	6°7/ 10.2 18			<b>91207</b>	1998 <i>XW</i> <sub>27</sub>		9 1.7 310°06	0°7/ 1.1 18		
7 30	23 3.56	+16 28.0	2.195	2.951	15.3	19.8	7 30	23 6.80	- 9 20.2	2.130	3.001	11.8	18.6
8 9	22 59.27	+16 18.4	2.117	2.958	13.0	19.6	8 9	23 1.72	- 9 28.3	2.048	2.990	8.7	18.4
8 19	22 53.38	+15 44.4	2.059	2.966	10.5	19.5	8 19	22 54.89	- 9 42.7	1.990	2.979	5.1	18.2
8 29	22 46.44	+14 46.1	2.024	2.973	8.1	19.4	8 29	22 46.89	-10 0.0	1.959	2.968	1.4	17.9
9 8	22 39.21	+13 26.4	2.014	2.980	6.7	19.3	9 8	22 38.52	-10 16.3	1.956	2.957	2.8	18.0
9 18	22 32.48	+11 50.7	2.032	2.987	7.3	19.3	9 18	22 30.62	-10 27.9	1.981	2.946	6.6	18.2
9 28	22 26.97	+10 6.8	2.076	2.993	9.3	19.5	9 28	22 24.00	-10 31.8	2.032	2.936	10.2	18.4
10 8	22 23.25	+ 8 22.9	2.146	3.000	11.7	19.7	10 8	22 19.28	-10 26.0	2.106	2.926	13.2	18.6
<b>359583</b>	2010 <i>UQ</i> <sub>41</sub>		9 1.7 1°25	4°5/ 28.6 18			<b>263279</b>	2008 <i>BR</i> <sub>33</sub>		9 1.7 293°			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>400949</b>	2010 VX <sub>114</sub>	9 1.7 317°30	6°8/ 8.9 17				<b>388223</b>	2006 JC <sub>1</sub>	9 1.7 187°90	3°3/ 5.5 18			
7 30	23 4.29	+13 41.0	2.208	2.980	14.8	20.5	7 30	23 4.21	+ 5 57.3	2.084	2.905	14.0	21.4
8 9	22 59.89	+14 8.5	2.122	2.976	12.5	20.3	8 9	22 59.84	+ 5 16.5	2.003	2.904	11.0	21.2
8 19	22 53.83	+14 15.6	2.057	2.972	10.1	20.2	8 19	22 53.80	+ 4 15.4	1.943	2.904	7.7	21.0
8 29	22 46.63	+14 1.2	2.015	2.967	7.9	20.0	8 29	22 46.63	+ 2 56.7	1.910	2.903	4.5	20.8
9 8	22 39.01	+13 26.7	1.998	2.963	6.8	20.0	9 8	22 39.12	+ 1 25.5	1.904	2.901	3.4	20.7
9 18	22 31.80	+12 35.6	2.007	2.960	7.5	20.0	9 18	22 32.07	+ 0 11.2	1.926	2.900	6.1	20.9
9 28	22 25.78	+11 33.6	2.043	2.956	9.6	20.1	9 28	22 26.26	+ 1 45.7	1.976	2.898	9.4	21.1
10 8	22 21.56	+10 27.5	2.102	2.952	12.1	20.3	10 8	22 22.29	+ 3 11.5	2.051	2.895	12.6	21.3
<b>487021</b>	2014 OD <sub>18</sub>	9 1.7 341°17	4°3/ 5.5 17				<b>99875</b>	2002 PE <sub>72</sub>	9 1.7 159°32	7°6/ 11.4 18			
7 30	23 5.08	+ 4 26.3	1.958	2.788	14.4	21.0	7 30	23 5.85	+19 52.8	2.739	3.448	13.6	19.5
8 9	23 0.60	+ 4 49.9	1.877	2.782	11.5	20.8	8 9	23 0.79	+20 34.6	2.654	3.451	11.9	19.3
8 19	22 54.30	+ 4 57.4	1.817	2.776	8.3	20.6	8 19	22 54.26	+20 57.4	2.589	3.453	10.1	19.2
8 29	22 46.76	+ 4 48.9	1.781	2.770	5.3	20.4	8 29	22 46.76	+20 59.3	2.548	3.455	8.6	19.1
9 8	22 38.80	+ 4 26.8	1.772	2.765	4.5	20.3	9 8	22 38.91	+20 40.7	2.531	3.457	7.7	19.1
9 18	22 31.30	+ 3 55.2	1.790	2.760	6.7	20.5	9 18	22 31.40	+20 3.7	2.540	3.459	7.8	19.1
9 28	22 25.13	+ 3 19.3	1.833	2.756	9.9	20.7	9 28	22 24.92	+19 12.8	2.575	3.461	9.0	19.2
10 8	22 20.94	+ 2 44.7	1.899	2.753	13.1	20.9	10 8	22 19.99	+18 13.5	2.634	3.462	10.6	19.3
<b>377596</b>	2005 QM <sub>65</sub>	9 1.7 347°87	21°8/ 19.8 18				<b>265868</b>	2005 YQ <sub>186</sub>	9 1.7 262°79	14°1/ 17.4 17			
7 30	23 28.62	-52 42.2	1.074	1.912	23.1	18.5	7 30	23 7.70	-28 39.3	1.042	1.958	17.6	19.2
8 9	23 20.37	-53 45.7	1.041	1.899	22.2	18.3	8 9	23 4.44	-32 46.3	1.002	1.948	15.0	19.0
8 19	23 6.76	-54 7.5	1.022	1.887	21.8	18.3	8 19	22 57.52	-36 46.5	0.986	1.939	14.2	18.9
8 29	22 50.07	-53 31.1	1.017	1.878	22.1	18.3	8 29	22 47.82	-40 13.8	0.992	1.929	15.7	19.0
9 8	22 33.65	-51 49.6	1.028	1.870	23.1	18.4	9 8	22 37.03	-42 48.1	1.020	1.919	18.7	19.1
9 18	22 20.39	-49 8.0	1.055	1.864	24.6	18.4	9 18	22 27.24	-44 20.6	1.065	1.908	22.1	19.3
9 28	22 12.00	-45 39.3	1.096	1.860	26.3	18.5	9 28	22 20.38	-44 53.4	1.125	1.898	25.2	19.5
10 8	22 8.74	-41 40.3	1.152	1.857	28.0	18.7	10 8	22 17.57	-44 35.9	1.194	1.887	27.7	19.7
<b>146264</b>	2001 BM <sub>74</sub>	9 1.7 154°49	0°4/ 1.2 18				<b>175856</b>	1999 UQ <sub>56</sub>	9 1.7 333°87	1°8/ 2.7 18			
7 30	23 3.62	- 6 43.9	2.617	3.478	10.2	20.3	7 30	23 8.94	- 4 22.4	1.197	2.083	18.1	19.0
8 9	22 59.04	- 7 26.6	2.546	3.483	7.5	20.1	8 9	23 4.44	- 4 1.6	1.128	2.073	13.8	18.7
8 19	22 53.15	- 8 17.1	2.501	3.487	4.4	19.9	8 19	22 57.05	- 3 55.4	1.077	2.063	8.7	18.4
8 29	22 46.41	- 9 11.8	2.483	3.492	1.1	19.7	8 29	22 47.62	- 4 1.6	1.048	2.055	3.3	18.1
9 8	22 39.46	-10 6.2	2.495	3.496	2.3	19.8	9 8	22 37.48	- 4 15.3	1.043	2.047	3.6	18.1
9 18	22 32.91	-10 56.1	2.536	3.499	5.5	20.0	9 18	22 28.15	- 4 30.5	1.062	2.039	9.1	18.4
9 28	22 27.38	-11 37.9	2.604	3.503	8.4	20.2	9 28	22 21.05	- 4 41.3	1.103	2.033	14.3	18.7
10 8	22 23.32	-12 9.0	2.697	3.506	10.9	20.4	10 8	22 17.07	- 4 42.7	1.163	2.027	18.8	18.9
<b>306406</b>	1996 VK <sub>26</sub>	9 1.7 335°51	5°1/ 6.4 18				<b>378591</b>	2008 EO <sub>35</sub>	9 1.7 101°39	0°0/ 1.5 17			
7 30	23 4.39	+ 7 0.5	1.817	2.641	15.6	20.7	7 30	23 10.83	- 6 2.1	1.604	2.474	15.1	20.9
8 9	23 0.23	+ 7 15.0	1.737	2.635	12.6	20.5	8 9	23 4.91	- 6 27.0	1.550	2.490	11.1	20.7
8 19	22 54.15	+ 7 9.5	1.677	2.630	9.3	20.2	8 19	22 56.85	- 7 3.7	1.518	2.505	6.6	20.5
8 29	22 46.74	+ 6 44.0	1.641	2.625	6.3	20.1	8 29	22 47.47	- 7 47.0	1.512	2.520	1.8	20.2
9 8	22 38.88	+ 6 1.5	1.630	2.620	5.2	20.0	9 8	22 37.86	- 8 30.8	1.533	2.535	3.0	20.4
9 18	22 31.51	+ 5 7.0	1.645	2.616	7.2	20.1	9 18	22 29.12	- 9 9.1	1.580	2.549	7.6	20.7
9 28	22 25.56	+ 4 7.4	1.686	2.612	10.5	20.3	9 28	22 22.21	- 9 37.3	1.653	2.563	11.7	20.9
10 8	22 21.70	+ 3 9.8	1.749	2.608	13.7	20.5	10 8	22 17.75	- 9 52.5	1.747	2.577	15.1	21.2
<b>424435</b>	2008 CE <sub>11</sub>	9 1.7 234°22	0°9/ 31.9 17				<b>479769</b>	2014 EL <sub>28</sub>	9 1.7 186°71	0°8/ 2.3 18			
7 30	23 11.47	- 8 33.3	1.776	2.647	13.8	22.4	7 30	23 10.77	- 5 20.6	1.930	2.789	13.4	21.2
8 9	23 5.55	- 8 59.7	1.693	2.634	10.3	22.1	8 9	23 4.73	- 5 17.2	1.857	2.789	10.0	21.0
8 19	22 57.38	- 9 35.7	1.633	2.621	6.1	21.8	8 19	22 56.74	- 5 23.3	1.806	2.789	6.2	20.8
8 29	22 47.64	-10 16.5	1.599	2.608	1.7	21.5	8 29	22 47.47	- 5 36.3	1.781	2.788	2.0	20.5
9 8	22 37.33	-10 56.3	1.593	2.593	3.5	21.6	9 8	22 37.83	- 5 52.3	1.785	2.787	2.6	20.6
9 18	22 27.56	-11 29.3	1.614	2.578	8.0	21.9	9 18	22 28.80	- 6 7.3	1.817	2.786	6.7	20.8
9 28	22 19.42	-11 51.0	1.661	2.562	12.2	22.1	9 28	22 21.29	- 6 17.7	1.875	2.785	10.5	21.1
10 8	22 13.67	-11 58.9	1.730	2.546	15.8	22.3	10 8	22 15.93	- 6 20.5	1.956	2.784	13.8	21.3
<b>364513</b>	2007 EJ <sub>118</sub>	9 1.7 110°43	0°8/ 31.7 18				<b>142305</b>	2002 RN <sub>155</sub>	9 1.7 353°12	2°9/ 4.0 18			
7 30	23 4.44	- 8 41.3	2.518	3.385	10.4	21.7	7 30	23 1.91	+ 1 44.9	1.174	2.052	18.9	19.5
8 9	22 59.63	- 9 19.7	2.456	3.397	7.5	21.5	8 9	22 59.16	+ 1 15.5	1.109	2.048	14.6	19.2
8 19	22 53.48	-10 4.6	2.420	3.408	4.4	21.4	8 19	22 53.84	+ 0 19.2	1.063	2.044	9.7	18.9
8 29	22 46.51	-10 51.9	2.411	3.419	1.2	21.2	8 29	22 46.73	- 1 0.1	1.038	2.041	4.6	18.6
9 8	22 39.35	-11 37.2	2.432	3.431	2.6	21.3	9 8	22 39.06	- 2 33.5	1.036	2.039	3.7	18.6
9 18	22 32.66	-12 16.8	2.481	3.442	5.8	21.5	9 18	22 32.17	- 4 9.7	1.058	2.038	8.6	18.9
9 28	22 27.07	-12 47.4	2.557	3.452	8.7	21.7	9 28	22 27.29	- 5 37.0	1.102	2.038	13.7	19.1
10 8	22 23.02	-13 7.0	2.657	3.463	11.2	21.9	10 8	22 25.25	- 6 46.8	1.166	2.039	18.1	19.4
<b>247410</b>	2002 CW <sub>108</sub>	9 1.7 126°68	3°0/ 30.2 18				<b>40174</b>	1998 RY <sub>12</sub>	9 1.7 60°06	3°3/ 5.8 18			
7 30	23 12.98	-15 51.0	2.016	2.891	12.2	20.3	7 30	23 1.83	+ 6 20.2	2.210	3.029	13.3	18.8
8 9	23 6.12	-16 17.6	1.961	2.904	8.9	20.1	8 9	22 57.98	+ 5 42.6	2.136	3.036	10.5	18.6
8 19	22 57.41	-16 45.4	1.930	2.917	5.4	19.9	8 19	22 52.64	+ 4 46.2	2.084	3.042	7.4	18.4
8 29	22 47.58	-17 9.3	1.927	2.929	3.0	19.8	8 29	22 46.33	+ 3 33.5	2.057	3.049	4.4	18.3
9 8	22 37.58	-17 24.4	1.952	2.941	4.7	19.9	9 8	22 39.77	+ 2 9.5	2.059	3.055	3.4	18.2
9 18	22 28.37	-17 27.8	2.006	2.952	8.0	20.1	9 18	22 33.67	+ 0 40.2	2.088	3.062	5.6	18.4
9 28	22 20.79	-17 17.9	2.085	2.963	11.1	20.3	9 28	22 28.71	- 0 47.5	2.145	3.069	8.7	18.6
10 8	22 15.38	-16 55.0	2.186	2.973	13.9	20.6	10 8	22 25.41	- 2 7.5	2.227	3.075	11.6	18.8
<b>209326</b>	2004 BO <sub>87</sub>	9 1.7 244°06	0°4/ 2.2 18				<b>521787</b>	2015 SH <sub>28</sub>	9 1.7 268°98	1°0/ 2.9 18			
7 30	23 3.75	- 2 26.9											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>195006</b>	2002 CW <sub>5</sub>	9 1.7 225°16	0°5/ 2.1 18				<b>218433</b>	2004 RM <sub>181</sub>	9 1.7 31°77	0°9/ 2.5 18			
7 30	23 8.23	- 4 54.3	1.794	2.659	14.0	20.3	7 30	23 6.95	- 4 43.2	2.027	2.888	12.8	19.7
8 9	23 3.04	- 5 12.8	1.719	2.656	10.4	20.1	8 9	23 1.82	- 4 44.6	1.958	2.891	9.5	19.5
8 19	22 55.82	- 5 43.3	1.667	2.652	6.4	19.8	8 19	22 54.96	- 4 55.9	1.912	2.895	5.9	19.3
8 29	22 47.24	- 6 22.1	1.641	2.648	1.9	19.5	8 29	22 46.99	- 5 14.2	1.892	2.899	2.0	19.0
9 8	22 38.23	- 7 3.9	1.642	2.644	2.7	19.6	9 8	22 38.74	- 5 35.9	1.901	2.903	2.4	19.1
9 18	22 29.82	- 7 43.1	1.670	2.640	7.1	19.8	9 18	22 31.05	- 5 56.8	1.936	2.908	6.2	19.3
9 28	22 22.94	- 8 14.7	1.723	2.636	11.2	20.1	9 28	22 24.73	- 6 13.2	1.998	2.912	9.8	19.6
10 8	22 18.28	- 8 35.2	1.799	2.631	14.6	20.3	10 8	22 20.34	- 6 22.1	2.083	2.917	12.8	19.8
<b>225181</b>	2008 HB <sub>39</sub>	9 1.7 30°19	2°8/30.9 17				<b>38594</b>	1999 XF <sub>193</sub>	9 1.7 269°95	0°6/ 2.8 16			
7 30	23 10.34	-12 48.1	1.218	2.119	16.8	19.9	7 30	22 58.85	- 3 56.3	4.423	5.266	6.7	19.5
8 9	23 5.14	-13 10.5	1.170	2.126	12.3	19.6	8 9	22 55.15	- 4 6.7	4.339	5.262	5.0	19.4
8 19	22 57.23	-13 39.3	1.141	2.134	7.3	19.4	8 19	22 50.71	- 4 22.2	4.280	5.258	3.1	19.3
8 29	22 47.61	-14 7.3	1.136	2.142	3.0	19.1	8 29	22 45.80	- 4 41.3	4.249	5.255	1.2	19.1
9 8	22 37.70	-14 27.1	1.155	2.152	5.3	19.3	9 8	22 40.75	- 5 2.4	4.249	5.251	1.2	19.1
9 18	22 28.92	-14 33.4	1.197	2.161	10.1	19.6	9 18	22 35.90	- 5 23.4	4.278	5.247	3.2	19.3
9 28	22 22.45	-14 23.4	1.262	2.172	14.6	19.9	9 28	22 31.59	- 5 42.6	4.336	5.244	5.1	19.4
10 8	22 18.98	-13 57.1	1.347	2.183	18.3	20.2	10 8	22 28.10	- 5 58.2	4.421	5.240	6.8	19.5
<b>139276</b>	2001 HY <sub>64</sub>	9 1.7 166°36	0°4/ 1.3 18				<b>363000</b>	2013 CN <sub>174</sub>	9 1.7 326°27	1°0/ 2.8 18			
7 30	23 10.45	- 6 50.2	1.847	2.713	13.6	20.6	7 30	23 4.27	- 2 27.6	2.014	2.873	12.9	20.7
8 9	23 4.55	- 7 23.1	1.779	2.717	10.0	20.4	8 9	22 59.93	- 2 55.9	1.940	2.871	9.7	20.5
8 19	22 56.65	- 8 6.3	1.735	2.721	5.9	20.1	8 19	22 53.88	- 3 37.5	1.888	2.870	6.1	20.2
8 29	22 47.45	- 8 55.3	1.717	2.725	1.6	19.9	8 29	22 46.71	- 4 28.8	1.862	2.868	2.2	20.0
9 8	22 37.91	- 9 43.9	1.727	2.728	3.0	20.0	9 8	22 39.20	- 5 24.9	1.864	2.867	2.4	20.0
9 18	22 29.03	-10 26.7	1.765	2.730	7.3	20.2	9 18	22 32.18	- 6 20.0	1.894	2.866	6.3	20.3
9 28	22 21.74	-10 59.0	1.829	2.732	11.1	20.5	9 28	22 26.46	- 7 8.9	1.949	2.865	9.9	20.5
10 8	22 16.67	-11 18.3	1.915	2.733	14.4	20.7	10 8	22 22.60	- 7 47.4	2.028	2.863	13.1	20.7
<b>521868</b>	2015 TB <sub>378</sub>	9 1.7 117°79	0°9/31.7 18				<b>198607</b>	2005 AL <sub>22</sub>	9 1.7 239°86	4°9/ 7.1 17			
7 30	23 4.08	- 8 43.0	2.463	3.332	10.5	21.9	7 30	23 6.17	+ 9 32.8	2.690	3.472	12.2	20.2
8 9	22 59.46	- 9 21.9	2.397	3.338	7.6	21.8	8 9	23 1.03	+ 9 59.4	2.596	3.463	10.1	20.0
8 19	22 53.44	-10 7.5	2.356	3.344	4.5	21.6	8 19	22 54.44	+10 11.3	2.525	3.454	7.8	19.9
8 29	22 46.55	-10 55.9	2.343	3.350	1.3	21.4	8 29	22 46.87	+10 8.2	2.479	3.445	5.7	19.7
9 8	22 39.45	-11 42.4	2.358	3.357	2.7	21.5	9 8	22 38.92	+ 9 51.2	2.460	3.436	4.9	19.7
9 18	22 32.80	-12 23.1	2.402	3.362	5.9	21.7	9 18	22 31.27	+ 9 22.9	2.470	3.427	6.0	19.7
9 28	22 27.24	-12 54.6	2.472	3.368	8.9	21.9	9 28	22 24.60	+ 8 47.3	2.507	3.417	8.2	19.8
10 8	22 23.26	-13 14.8	2.566	3.374	11.5	22.1	10 8	22 19.45	+ 8 8.9	2.569	3.407	10.5	20.0
<b>124035</b>	2001 FK <sub>131</sub>	9 1.7 191°20	2°5/ 4.8 18				<b>478875</b>	2012 VX <sub>100</sub>	9 1.7 27°89	5°9/ 7.3 16			
7 30	23 5.46	+ 2 42.5	2.942	3.757	10.4	20.6	7 30	23 1.85	+ 9 25.0	1.321	2.160	19.5	20.2
8 9	23 0.31	+ 2 43.1	2.855	3.755	8.2	20.4	8 9	22 58.76	+ 9 10.2	1.265	2.171	15.8	20.0
8 19	22 53.91	+ 2 32.7	2.793	3.753	5.6	20.3	8 19	22 53.40	+ 8 24.7	1.228	2.183	11.7	19.8
8 29	22 46.69	+ 2 12.5	2.758	3.751	3.3	20.1	8 29	22 46.60	+ 7 10.3	1.211	2.197	7.7	19.6
9 8	22 39.21	+ 1 44.9	2.752	3.748	2.7	20.1	9 8	22 39.45	+ 5 34.1	1.218	2.211	6.0	19.5
9 18	22 32.06	+ 1 12.7	2.776	3.745	4.7	20.2	9 18	22 33.12	+ 3 46.5	1.250	2.226	8.1	19.7
9 28	22 25.81	+ 0 39.4	2.828	3.741	7.3	20.4	9 28	22 28.64	+ 1 59.2	1.305	2.242	11.9	20.0
10 8	22 20.92	+ 0 8.5	2.906	3.737	9.6	20.5	10 8	22 26.65	+ 0 22.5	1.382	2.259	15.6	20.2
<b>163078</b>	2002 AF <sub>21</sub>	9 1.7 332°14	2°7/ 3.0 18				<b>337128</b>	1999 TA <sub>72</sub>	9 1.7 90°37	3°2/ 4.9 17			
7 30	23 7.79	- 3 43.9	1.025	1.920	19.7	18.8	7 30	23 5.38	+ 3 54.8	1.802	2.639	15.1	20.9
8 9	23 4.04	- 3 8.4	0.955	1.904	15.2	18.4	8 9	23 0.85	+ 3 31.0	1.736	2.648	11.8	20.7
8 19	22 57.07	- 2 48.8	0.902	1.890	9.8	18.1	8 19	22 54.46	+ 2 47.5	1.691	2.658	8.1	20.5
8 29	22 47.70	- 2 44.1	0.870	1.876	4.2	17.7	8 29	22 46.88	+ 1 47.1	1.670	2.667	4.5	20.3
9 8	22 37.41	- 2 50.0	0.860	1.863	4.2	17.7	9 8	22 38.99	+ 0 35.4	1.677	2.676	3.5	20.3
9 18	22 27.93	- 3 0.6	0.872	1.852	10.0	18.0	9 18	22 31.72	- 0 40.8	1.710	2.685	6.6	20.5
9 28	22 20.91	- 3 8.8	0.904	1.842	15.7	18.3	9 28	22 25.92	- 1 54.1	1.770	2.694	10.2	20.7
10 8	22 17.41	- 3 8.7	0.953	1.833	20.7	18.5	10 8	22 22.20	- 2 58.4	1.853	2.703	13.5	21.0
<b>227544</b>	2005 YZ <sub>124</sub>	9 1.7 338°29	8°7/24.5 18				<b>258567</b>	2002 CC <sub>94</sub>	9 1.7 236°45	0°2/ 1.3 18			
7 30	23 6.56	-25 4.2	1.449	2.354	14.3	19.6	7 30	22 59.75	- 8 42.2	4.659	5.514	6.2	20.6
8 9	23 2.37	-26 53.6	1.400	2.349	11.3	19.4	8 9	22 55.77	- 8 52.6	4.575	5.509	4.5	20.5
8 19	22 55.64	-28 38.7	1.374	2.345	9.1	19.2	8 19	22 51.07	- 9 6.1	4.519	5.504	2.6	20.4
8 29	22 47.22	-30 7.3	1.371	2.341	8.9	19.2	8 29	22 45.92	- 9 21.1	4.491	5.499	0.7	20.2
9 8	22 38.34	-31 9.4	1.392	2.338	11.0	19.3	9 8	22 40.63	- 9 35.8	4.493	5.494	1.4	20.3
9 18	22 30.32	-31 39.5	1.435	2.335	14.0	19.5	9 18	22 35.55	- 9 48.8	4.526	5.489	3.3	20.4
9 28	22 24.34	-31 36.9	1.499	2.332	17.1	19.7	9 28	22 30.99	- 9 58.4	4.588	5.483	5.1	20.5
10 8	22 21.14	-31 5.1	1.579	2.330	19.8	19.9	10 8	22 27.23	-10 3.4	4.675	5.478	6.7	20.6
<b>315857</b>	2008 HK <sub>42</sub>	9 1.7 57°13	4°7/27.5 18				<b>284966</b>	2010 FO <sub>20</sub>	9 1.7 36°27	2°0/30.9 18			
7 30	23 4.45	-18 29.1	1.982	2.875	11.6	20.2	7 30	23 6.70	-10 42.6	1.630	2.518	14.0	20.6
8 9	23 0.03	-19 51.3	1.937	2.888	8.5	20.0	8 9	23 2.01	-11 27.3	1.571	2.521	10.2	20.3
8 19	22 53.88	-21 14.1	1.917	2.901	5.7	19.9	8 19	22 55.23	-12 20.3	1.534	2.525	6.0	20.1
8 29	22 46.68	-22 29.7	1.923	2.914	4.7	19.8	8 29	22 47.10	-13 15.1	1.523	2.530	2.2	19.9
9 8	22 39.28	-23 31.5	1.957	2.928	6.4	20.0	9 8	22 38.65	-14 4.7	1.538	2.534	4.3	20.0
9 18	22 32.52	-24 15.0	2.016	2.941	9.2	20.2	9 18	22 30.93	-14 43.1	1.578	2.539	8.5	20.3
9 28	22 27.19	-24 37.9	2.100	2.955	12.0	20.4	9 28	22 24.90	-15 6.1	1.643	2.544	12.4	20.5
10 8	22 23.80	-24 40.8	2.204	2.969	14.4	20.6	10 8	22 21.19	-15 12.4	1.729	2.549	15.7	20.8
<b>356508</b>	2011 SA <sub>49</sub>	9 1.7 233°05	1°7/31.2 18				<b>287056</b>	2002 QY <sub>134</sub>	9 1.7 357°08	3°8/29.5 18			
7 30	23 10.28	-12 16.6	2.233	3.103</									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>349990</b>	2010 <i>EY</i> <sub>171</sub>	9 1.7 23°10'	5°6'/27.5 18				<b>57633</b>	2001 <i>TJ</i> <sub>182</sub>	9 1.7 167°50'	2°0'/4.1 18			
7 30	23 5.41	-18 12.6	1.543	2.445	13.8	20.1	7 30	23 5.91	+ 0 50.1	2.561	3.392	11.4	20.0
8 9	23 1.23	-19 40.4	1.493	2.448	10.2	19.9	8 9	23 0.79	+ 0 37.5	2.484	3.395	8.8	19.8
8 19	22 54.84	-21 10.1	1.466	2.452	6.9	19.7	8 19	22 54.27	+ 0 13.1	2.429	3.399	5.8	19.6
8 29	22 47.02	-22 32.2	1.463	2.456	5.6	19.6	8 29	22 46.85	- 0 21.3	2.402	3.402	2.9	19.5
9 8	22 38.86	-23 37.4	1.486	2.461	7.7	19.8	9 8	22 39.17	- 1 2.3	2.404	3.404	2.4	19.4
9 18	22 31.49	-24 19.8	1.534	2.465	11.1	20.0	9 18	22 31.90	- 1 46.0	2.435	3.406	5.1	19.6
9 28	22 25.93	-24 36.8	1.604	2.471	14.5	20.2	9 28	22 25.69	- 2 28.1	2.494	3.408	8.1	19.8
10 8	22 22.81	-24 29.6	1.692	2.476	17.4	20.4	10 8	22 21.02	- 3 5.0	2.578	3.409	10.7	20.0
<b>376382</b>	2012 <i>DE</i> <sub>30</sub>	9 1.7 141°85'	2°9'/30.7 18				<b>212345</b>	2005 <i>UW</i> <sub>13</sub>	9 1.7 55°25'	0°6'/2.5 18			
7 30	23 12.51	-13 19.9	1.463	2.351	15.2	20.9	7 30	23 1.70	- 3 47.1	2.794	3.647	9.9	20.6
8 9	23 6.52	-13 51.4	1.403	2.353	11.2	20.7	8 9	22 57.57	- 4 12.1	2.731	3.660	7.3	20.4
8 19	22 58.02	-14 28.5	1.366	2.356	6.7	20.4	8 19	22 52.28	- 4 45.5	2.693	3.674	4.5	20.3
8 29	22 47.90	-15 4.2	1.353	2.358	3.0	20.2	8 29	22 46.29	- 5 24.4	2.682	3.688	1.5	20.1
9 8	22 37.39	-15 31.4	1.366	2.360	5.2	20.4	9 8	22 40.14	- 6 5.5	2.700	3.702	1.8	20.1
9 18	22 27.80	-15 45.0	1.405	2.362	9.6	20.6	9 18	22 34.39	- 6 45.2	2.746	3.716	4.7	20.3
9 28	22 20.28	-15 42.1	1.467	2.364	13.8	20.9	9 28	22 29.57	- 7 20.1	2.821	3.731	7.4	20.5
10 8	22 15.53	-15 22.7	1.550	2.366	17.3	21.1	10 8	22 26.06	- 7 47.9	2.920	3.745	9.8	20.7
<b>487720</b>	2015 <i>RS</i> <sub>63</sub>	9 1.7 271°74'	1°9'/30.7 17				<b>204095</b>	2003 <i>WL</i> <sub>79</sub>	9 1.7 15°36'	1°8'/3.1 18			
7 30	23 7.74	-12 57.7	2.395	3.267	10.6	22.1	7 30	23 6.46	- 2 28.2	1.473	2.345	16.1	19.3
8 9	23 2.39	-13 24.5	2.302	3.245	7.8	21.9	8 9	23 2.02	- 2 28.4	1.411	2.348	12.2	19.0
8 19	22 55.36	-13 55.6	2.234	3.222	4.7	21.7	8 19	22 55.33	- 2 44.1	1.369	2.352	7.7	18.8
8 29	22 47.17	-14 26.9	2.194	3.199	2.1	21.5	8 29	22 47.18	- 3 12.3	1.351	2.356	3.2	18.5
9 8	22 38.54	-14 53.8	2.182	3.176	3.6	21.5	9 8	22 38.64	- 3 47.6	1.358	2.361	3.1	18.5
9 18	22 30.26	-15 12.5	2.199	3.152	6.9	21.7	9 18	22 30.86	- 4 24.0	1.391	2.367	7.6	18.8
9 28	22 23.12	-15 20.4	2.243	3.128	10.2	21.9	9 28	22 24.88	- 4 55.3	1.448	2.373	11.9	19.1
10 8	22 17.74	-15 16.0	2.309	3.104	13.0	22.0	10 8	22 21.37	- 5 16.9	1.525	2.380	15.6	19.4
<b>382501</b>	2001 <i>QW</i> <sub>280</sub>	9 1.7 328°75'	5°9'/29.2 18				<b>107479</b>	2001 <i>DK</i> <sub>35</sub>	9 1.7 164°78'	1°0'/31.8 17			
7 30	23 8.14	-18 39.3	1.149	2.061	16.7	19.5	7 30	23 8.04	- 6 37.8	1.687	2.561	14.3	20.5
8 9	23 4.19	-19 13.6	1.077	2.038	12.6	19.2	8 9	23 2.99	- 7 41.6	1.621	2.564	10.5	20.3
8 19	22 57.11	-19 49.4	1.025	2.015	8.3	18.9	8 19	22 55.84	- 8 58.5	1.579	2.568	6.1	20.0
8 29	22 47.74	-20 17.0	0.995	1.994	5.9	18.7	8 29	22 47.31	-10 22.0	1.563	2.571	1.7	19.7
9 8	22 37.54	-20 27.1	0.987	1.974	8.3	18.7	9 8	22 38.40	-11 43.8	1.574	2.573	3.6	19.9
9 18	22 28.15	-20 13.3	1.002	1.956	12.9	18.9	9 18	22 30.16	-12 56.2	1.612	2.575	8.1	20.2
9 28	22 21.17	-19 33.9	1.036	1.938	17.7	19.1	9 28	22 23.57	-13 53.2	1.675	2.577	12.1	20.4
10 8	22 17.57	-18 31.0	1.087	1.922	21.9	19.4	10 8	22 19.28	-14 31.8	1.760	2.578	15.5	20.6
<b>449907</b>	2015 <i>MK</i> <sub>127</sub>	9 1.7 348°92'	0°8'/2.4 18				<b>207027</b>	2004 <i>VD</i> <sub>59</sub>	9 1.7 10°90'	9°4'/7.4 18			
7 30	23 7.15	- 4 47.9	1.788	2.655	13.9	21.2	7 30	22 55.52	+ 5 29.1	0.623	1.538	26.0	18.3
8 9	23 2.24	- 4 53.9	1.716	2.653	10.4	21.0	8 9	22 55.44	+ 6 58.3	0.592	1.542	21.3	18.0
8 19	22 55.36	- 5 11.3	1.667	2.652	6.4	20.7	8 19	22 51.99	+ 7 48.8	0.573	1.550	16.1	17.8
8 29	22 47.17	- 5 36.8	1.643	2.650	2.1	20.4	8 29	22 46.31	+ 7 57.3	0.569	1.561	11.4	17.6
9 8	22 38.60	- 6 5.9	1.646	2.649	2.7	20.5	9 8	22 40.18	+ 7 28.5	0.581	1.576	9.4	17.6
9 18	22 30.63	- 6 33.6	1.676	2.648	6.9	20.8	9 18	22 35.37	+ 6 33.7	0.609	1.594	11.7	17.8
9 28	22 24.19	- 6 55.5	1.731	2.647	10.9	21.0	9 28	22 33.37	+ 5 28.6	0.654	1.614	16.1	18.2
10 8	22 19.91	- 7 8.0	1.808	2.647	14.3	21.2	10 8	22 34.86	+ 4 27.9	0.715	1.638	20.4	18.6
<b>419768</b>	2010 <i>VF</i> <sub>133</sub>	9 1.7 233°54'	3°7'/29.5 18				<b>91015</b>	1998 <i>DJ</i> <sub>13</sub>	9 1.7 254°84'	4°6'/5.3 18			
7 30	23 11.05	-15 8.3	1.816	2.698	13.0	21.8	7 30	23 9.31	+ 4 21.3	1.815	2.643	15.4	19.3
8 9	23 5.27	-16 4.8	1.739	2.686	9.6	21.6	8 9	23 3.96	+ 4 46.0	1.730	2.634	12.3	19.0
8 19	22 57.27	-17 6.3	1.685	2.672	6.0	21.3	8 19	22 56.49	+ 4 53.5	1.666	2.625	8.9	18.8
8 29	22 47.72	-18 5.7	1.657	2.658	3.7	21.2	8 29	22 47.53	+ 4 43.7	1.627	2.616	5.6	18.6
9 8	22 37.63	-18 55.5	1.658	2.644	5.7	21.3	9 8	22 38.01	+ 4 19.1	1.613	2.607	4.7	18.5
9 18	22 28.11	-19 30.1	1.685	2.628	9.4	21.5	9 18	22 28.97	+ 3 44.0	1.627	2.597	7.3	18.7
9 28	22 20.21	-19 45.9	1.736	2.612	13.1	21.6	9 28	22 21.44	+ 3 4.4	1.666	2.587	10.9	18.9
10 8	22 14.70	-19 42.5	1.809	2.595	16.3	21.8	10 8	22 16.16	+ 2 26.3	1.728	2.577	14.3	19.1
<b>129845</b>	1999 <i>RG</i> <sub>27</sub>	9 1.7 318°66'	17°4'/29.2 15				<b>472488</b>	2015 <i>CU</i> <sub>8</sub>	9 1.7 174°09'	3°1'/4.6 18			
7 30	23 39.46	-40 14.1	0.876	1.751	24.0	18.8	7 30	23 8.30	+ 3 8.2	1.830	2.664	15.0	21.5
8 9	23 29.22	-40 33.9	0.815	1.731	21.1	18.5	8 9	23 3.07	+ 2 49.9	1.755	2.667	11.7	21.3
8 19	23 12.78	-40 18.1	0.769	1.711	18.5	18.2	8 19	22 55.86	+ 2 12.7	1.701	2.669	8.0	21.0
8 29	22 52.07	-39 3.6	0.741	1.692	17.4	18.1	8 29	22 47.33	+ 1 19.2	1.673	2.670	4.3	20.8
9 8	22 30.60	-36 38.0	0.733	1.674	18.6	18.1	9 8	22 38.40	+ 0 14.2	1.672	2.671	3.5	20.8
9 18	22 12.08	-33 7.5	0.745	1.657	21.8	18.2	9 18	22 30.04	- 0 55.7	1.698	2.671	6.7	21.0
9 28	21 59.03	-28 53.2	0.776	1.642	25.8	18.4	9 28	22 23.19	- 2 3.3	1.751	2.671	10.5	21.2
10 8	21 52.16	-24 20.1	0.824	1.628	29.7	18.6	10 8	22 18.51	- 3 2.5	1.827	2.671	13.9	21.4
<b>127923</b>	2003 <i>GP</i> <sub>46</sub>	9 1.7 94°26'	3°0'/30.1 18				<b>386752</b>	2010 <i>CW</i> <sub>12</sub>	9 1.7 124°50'	1°4'/31.2 17			
7 30	23 7.90	-12 40.3	1.628	2.518	13.9	20.0	7 30	23 6.54	- 8 59.3	2.192	3.062	11.6	21.8
8 9	23 2.89	-13 40.6	1.573	2.525	10.1	19.7	8 9	23 1.39	- 9 58.7	2.134	3.076	8.4	21.7
8 19	22 55.76	-14 47.5	1.541	2.532	6.0	19.5	8 19	22 54.66	-11 5.6	2.102	3.090	4.9	21.5
8 29	22 47.27	-15 53.6	1.534	2.539	3.1	19.4	8 29	22 46.96	-12 14.7	2.097	3.104	1.6	21.3
9 8	22 38.48	-16 51.0	1.554	2.546	5.1	19.5	9 8	22 39.06	-13 20.1	2.121	3.117	3.3	21.4
9 18	22 30.47	-17 33.6	1.600	2.553	9.1	19.8	9 18	22 31.72	-14 16.6	2.173	3.130	6.7	21.7
9 28	22 24.20	-17 57.9	1.670	2.560	12.8	20.0	9 28	22 25.67	-15 0.3	2.252	3.142	9.9	21.9
10 8	22 20.30	-18 3.1	1.761	2.566	16.0	20.2	10 8	22 21.42	-15 29.3	2.354	3.154	12.6	22.1
<b>399538</b>	2003 <i>NK</i> <sub>11</sub>	9 1.7 355°08'	12°2'/11.5 17				<b>70898</b>	1999 <i>VR</i> <sub>176</sub>	9 1.7 262°66'				



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>50808</b>	2000 <i>FK</i> <sub>28</sub>		9 1.7 220°03	0°0/ 1.8 18			<b>106207</b>	2000 <i>UU</i> <sub>29</sub>		9 1.7 217°09	11°7/14.9 18		
7 30	23 10.45	- 5 52.3	2.050	2.907	12.8	19.7	7 30	23 7.80	+26 57.3	1.922	2.604	19.4	20.4
8 9	23 4.57	- 6 15.6	1.964	2.897	9.5	19.5	8 9	23 3.02	+27 27.8	1.831	2.596	17.5	20.2
8 19	22 56.75	- 6 49.2	1.902	2.887	5.8	19.3	8 19	22 56.03	+27 26.4	1.754	2.589	15.5	20.0
8 29	22 47.59	- 7 29.6	1.867	2.875	1.6	19.0	8 29	22 47.45	+26 48.5	1.697	2.580	13.4	19.9
9 8	22 37.96	- 8 11.7	1.861	2.863	2.6	19.0	9 8	22 38.25	+25 33.3	1.660	2.571	12.0	19.8
9 18	22 28.80	- 8 50.5	1.883	2.850	6.8	19.3	9 18	22 29.51	+23 44.4	1.648	2.561	11.7	19.7
9 28	22 21.01	- 9 21.6	1.932	2.836	10.6	19.5	9 28	22 22.31	+21 30.3	1.660	2.550	12.8	19.8
10 8	22 15.28	- 9 41.8	2.004	2.821	13.9	19.7	10 8	22 17.46	+19 3.1	1.695	2.539	14.8	19.9
<b>44055</b>	1998 <i>FC</i> <sub>30</sub>		9 1.7 261°79	0°4/ 1.5 18			<b>348055</b>	2003 <i>US</i> <sub>213</sub>		9 1.7 42°27	5°9/28.2 18		
7 30	23 13.19	- 9 11.1	1.737	2.607	14.1	17.8	7 30	23 11.74	-22 13.2	1.683	2.573	13.5	20.4
8 9	23 6.80	- 9 3.3	1.661	2.601	10.5	17.5	8 9	23 5.72	-22 56.6	1.630	2.577	10.2	20.2
8 19	22 58.16	- 9 2.2	1.607	2.594	6.3	17.3	8 19	22 57.45	-23 36.4	1.600	2.580	7.2	20.0
8 29	22 47.98	- 9 4.4	1.580	2.588	1.7	17.0	8 29	22 47.78	-24 5.0	1.596	2.583	5.9	19.9
9 8	22 37.34	- 9 5.7	1.580	2.582	3.1	17.1	9 8	22 37.86	-24 16.3	1.617	2.587	7.6	20.1
9 18	22 27.38	- 9 2.6	1.608	2.575	7.7	17.3	9 18	22 28.85	-24 7.2	1.663	2.591	10.7	20.2
9 28	22 19.16	- 8 52.2	1.661	2.568	11.8	17.6	9 28	22 21.74	-23 37.6	1.733	2.595	13.8	20.5
10 8	22 13.39	- 8 32.8	1.737	2.562	15.3	17.8	10 8	22 17.17	-22 49.8	1.823	2.599	16.6	20.7
<b>83712</b>	2001 <i>TS</i> <sub>82</sub>		9 1.7 77°66	0°8/ 2.5 18			<b>476831</b>	2008 <i>US</i> <sub>279</sub>		9 1.7 163°42	5°4/27.9 17		
7 30	23 7.39	- 4 2.8	1.927	2.787	13.3	19.5	7 30	23 10.67	-21 12.5	1.858	2.745	12.6	21.4
8 9	23 2.17	- 4 19.0	1.868	2.801	9.9	19.3	8 9	23 4.81	-22 8.1	1.802	2.747	9.4	21.2
8 19	22 55.19	- 4 46.6	1.832	2.815	6.1	19.1	8 19	22 56.88	-23 1.8	1.769	2.749	6.6	21.0
8 29	22 47.12	- 5 21.9	1.822	2.828	2.0	18.9	8 29	22 47.64	-23 46.2	1.762	2.750	5.4	21.0
9 8	22 38.84	- 6 0.2	1.839	2.842	2.5	19.0	9 8	22 38.11	-24 15.0	1.783	2.752	7.1	21.1
9 18	22 31.21	- 6 36.7	1.885	2.856	6.4	19.2	9 18	22 29.34	-24 24.4	1.829	2.753	10.1	21.3
9 28	22 25.04	- 7 6.8	1.956	2.869	10.0	19.5	9 28	22 22.27	-24 13.4	1.899	2.754	13.1	21.5
10 8	22 20.87	- 7 27.5	2.050	2.883	13.0	19.7	10 8	22 17.52	-23 43.6	1.989	2.755	15.7	21.7
<b>67700</b>	2000 <i>TZ</i> <sub>9</sub>		9 1.7 47°45	1°2/31.8 18			<b>457980</b>	2009 <i>VK</i> <sub>110</sub>		9 1.7 328°49	5°3/ 6.7 17		
7 30	23 8.81	- 9 9.8	1.426	2.314	15.6	19.5	7 30	23 3.60	+ 7 41.4	1.982	2.798	14.7	20.8
8 9	23 3.71	- 9 36.8	1.375	2.325	11.4	19.3	8 9	22 59.65	+ 8 3.9	1.892	2.784	12.1	20.6
8 19	22 56.30	-10 13.6	1.346	2.337	6.7	19.1	8 19	22 53.88	+ 8 8.0	1.824	2.771	9.1	20.4
8 29	22 47.44	-10 54.0	1.341	2.349	1.9	18.8	8 29	22 46.85	+ 7 53.2	1.779	2.758	6.4	20.2
9 8	22 38.33	-11 31.2	1.361	2.361	3.9	19.0	9 8	22 39.33	+ 7 21.5	1.759	2.745	5.4	20.2
9 18	22 30.15	-11 59.2	1.407	2.374	8.6	19.3	9 18	22 32.20	+ 6 37.0	1.766	2.734	7.1	20.2
9 28	22 23.93	-12 13.9	1.476	2.387	12.8	19.6	9 28	22 26.32	+ 5 45.6	1.798	2.722	10.0	20.4
10 8	22 20.29	-12 13.7	1.566	2.400	16.3	19.9	10 8	22 22.37	+ 4 53.7	1.853	2.712	13.1	20.6
<b>187134</b>	2005 <i>QG</i> <sub>127</sub>		9 1.7 81°52	0°1/ 1.6 17			<b>21276</b>	Feller		9 1.7 306°86	2°1/ 3.3 18		
7 30	23 9.73	- 5 41.7	1.496	2.371	15.7	21.0	7 30	23 5.05	- 0 32.0	1.296	2.171	17.6	19.3
8 9	23 4.23	- 6 19.4	1.448	2.390	11.5	20.8	8 9	23 1.52	- 0 54.7	1.217	2.155	13.6	19.0
8 19	22 56.53	- 7 10.3	1.422	2.410	6.8	20.6	8 19	22 55.38	- 1 40.0	1.157	2.140	8.8	18.7
8 29	22 47.50	- 8 8.2	1.421	2.429	1.8	20.3	8 29	22 47.33	- 2 44.5	1.120	2.125	3.7	18.3
9 8	22 38.27	- 9 5.6	1.446	2.448	3.2	20.5	9 8	22 38.52	- 4 0.9	1.107	2.110	3.4	18.3
9 18	22 29.98	- 9 55.8	1.498	2.467	7.9	20.8	9 18	22 30.30	- 5 19.6	1.118	2.095	8.7	18.5
9 28	22 23.60	-10 33.6	1.574	2.485	12.1	21.1	9 28	22 24.00	- 6 30.5	1.152	2.082	13.9	18.8
10 8	22 19.70	-10 56.0	1.671	2.504	15.5	21.4	10 8	22 20.54	- 7 26.1	1.205	2.068	18.4	19.0
<b>177151</b>	2003 <i>RU</i> <sub>8</sub>		9 1.7 318°57	21°6/16.1 18			<b>68925</b>	2002 <i>LP</i> <sub>49</sub>		9 1.7 54°65	8°6/10.5 17		
7 30	23 38.32	-54 15.3	1.218	2.030	22.4	18.6	7 30	23 5.20	+16 24.5	1.660	2.437	18.7	19.2
8 9	23 28.19	-55 34.2	1.170	2.003	21.7	18.5	8 9	23 0.99	+16 45.7	1.596	2.448	16.0	19.0
8 19	23 11.98	-56 14.7	1.135	1.977	21.6	18.4	8 19	22 54.70	+16 37.7	1.549	2.460	13.0	18.9
8 29	22 51.81	-55 57.2	1.116	1.952	22.1	18.4	8 29	22 47.06	+15 59.2	1.522	2.472	10.2	18.7
9 8	22 31.34	-54 31.0	1.113	1.927	23.4	18.4	9 8	22 39.06	+14 52.9	1.520	2.484	8.6	18.7
9 18	22 14.13	-51 57.9	1.125	1.904	25.1	18.4	9 18	22 31.73	+13 25.3	1.541	2.496	9.2	18.7
9 28	22 2.42	-48 30.5	1.153	1.882	27.0	18.5	9 28	22 26.04	+11 45.7	1.588	2.509	11.4	18.9
10 8	21 56.65	-44 26.4	1.194	1.860	28.9	18.6	10 8	22 22.63	+10 4.7	1.657	2.521	14.1	19.1
<b>235195</b>	2003 <i>SC</i> <sub>138</sub>		9 1.7 269°07	3°9/ 6.2 18			<b>455059</b>	2015 <i>UN</i> <sub>22</sub>		9 1.7 298°75	3°0/29.7 18		
7 30	23 2.86	+ 8 34.0	1.850	2.667	15.6	19.9	7 30	23 5.51	-15 0.6	2.105	2.990	11.4	20.9
8 9	22 59.14	+ 7 34.8	1.764	2.661	12.5	19.7	8 9	23 0.92	-15 44.7	2.029	2.977	8.3	20.7
8 19	22 53.58	+ 6 9.0	1.699	2.655	8.9	19.5	8 19	22 54.57	-16 32.6	1.976	2.965	5.1	20.5
8 29	22 46.74	+ 4 19.2	1.659	2.650	5.4	19.3	8 29	22 47.03	-17 18.8	1.950	2.952	3.0	20.3
9 8	22 39.47	+ 2 12.4	1.647	2.644	4.0	19.2	9 8	22 39.11	-17 57.7	1.952	2.939	4.8	20.4
9 18	22 32.66	- 0 2.2	1.662	2.638	6.6	19.3	9 18	22 31.65	-18 24.7	1.980	2.927	8.0	20.6
9 28	22 27.22	- 2 14.0	1.705	2.632	10.3	19.5	9 28	22 25.49	-18 37.0	2.034	2.914	11.3	20.8
10 8	22 23.78	- 4 13.7	1.773	2.626	13.9	19.7	10 8	22 21.24	-18 33.5	2.109	2.902	14.1	20.9
<b>253717</b>	2003 <i>VN</i> <sub>10</sub>		9 1.7 26°96	4°6/ 4.8 17			<b>29122</b>	Vasadze		9 1.7 305°69	2°3/31.2 18		
7 30	23 6.49	+ 2 30.1	1.071	1.946	20.5	19.5	7 30	23 9.26	-11 55.7	1.419	2.311	15.4	17.6
8 9	23 2.60	+ 2 47.5	1.021	1.955	16.1	19.3	8 9	23 4.58	-12 18.5	1.335	2.287	11.4	17.3
8 19	22 55.91	+ 2 39.3	0.989	1.965	11.0	19.0	8 19	22 57.21	-12 49.5	1.272	2.263	6.8	17.0
8 29	22 47.39	+ 2 7.2	0.978	1.976	6.2	18.8	8 29	22 47.84	-13 22.6	1.233	2.240	2.6	16.7
9 8	22 38.47	+ 1 17.8	0.988	1.988	5.0	18.8	9 8	22 37.67	-13 50.5	1.219	2.216	4.9	16.8
9 18	22 30.61	+ 0 19.9	1.022	2.001	9.0	19.1	9 18	22 28.06	-14 6.7	1.229	2.193	9.9	17.0
9 28	22 25.09	- 0 36.4	1.077	2.015	13.7	19.4	9 28	22 20.36	-14 6.9	1.263	2.171	14.7	17.2
10 8	22 22.63	- 1 22.8	1.151	2.030	17.9	19.7	10 8	22 15.52	-13 49.4	1.316	2.148	18.9	17.4
<b>257375</b>	2009 <i>QZ</i> <sub>47</sub>		9 1.7 304°97	0°5/ 2.7 17			<b>371512</b>	2006 <i>UY</i> <sub>77</sub>		9 1.7 350°12	0°1/ 1.9 17		

EPHEMERIDES

9 1.7

9 1.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>315143</b>	2007 <i>EU</i> <sub>160</sub>		9 1.7 187°03	0°8/31.8	18		<b>66828</b>	1999 <i>UG</i> <sub>41</sub>		9 1.7 5°94	4°8/ 6.2	18	
7 30	23 7.14	- 9 50.0	2.672	3.535	10.0	20.7	7 30	22 58.81	+ 7 1.9	1.234	2.093	19.4	18.2
8 9	23 1.67	-10 8.4	2.597	3.534	7.3	20.5	8 9	22 56.78	+ 6 30.0	1.171	2.093	15.5	18.0
8 19	22 54.82	-10 31.6	2.546	3.533	4.3	20.4	8 19	22 52.44	+ 5 26.3	1.126	2.094	11.0	17.8
8 29	22 47.08	-10 56.7	2.524	3.532	1.2	20.1	8 29	22 46.52	+ 3 53.7	1.103	2.097	6.6	17.5
9 8	22 39.10	-11 20.1	2.532	3.530	2.5	20.2	9 8	22 40.15	+ 2 0.6	1.102	2.101	4.9	17.4
9 18	22 31.54	-11 38.7	2.568	3.529	5.6	20.4	9 18	22 34.51	- 0 0.9	1.126	2.107	8.1	17.6
9 28	22 25.03	-11 50.0	2.632	3.526	8.5	20.6	9 28	22 30.72	- 1 57.7	1.172	2.114	12.5	17.9
10 8	22 20.06	-11 52.4	2.721	3.524	11.0	20.8	10 8	22 29.47	- 3 38.7	1.240	2.122	16.7	18.2
<b>495945</b>	2006 <i>SZ</i> <sub>354</sub>		9 1.7 359°37	0°0/ 1.5	15		<b>39498</b>	1981 <i>EH</i> <sub>25</sub>		9 1.8 146°75	0°6/ 2.4	18	
7 30	22 59.46	- 5 11.9	0.914	1.829	19.5	20.1	7 30	23 6.82	- 3 3.4	1.975	2.832	13.2	20.2
8 9	22 57.86	- 5 44.0	0.861	1.824	14.6	19.8	8 9	23 1.85	- 3 42.7	1.906	2.838	9.9	20.0
8 19	22 53.32	- 6 37.8	0.826	1.820	8.8	19.5	8 19	22 55.11	- 4 35.3	1.861	2.844	6.0	19.8
8 29	22 46.78	- 7 46.1	0.810	1.819	2.4	19.1	8 29	22 47.23	- 5 36.8	1.843	2.850	2.0	19.5
9 8	22 39.66	- 8 57.4	0.816	1.820	4.1	19.2	9 8	22 39.04	- 6 41.6	1.852	2.855	2.4	19.6
9 18	22 33.52	-10 0.3	0.842	1.822	10.3	19.6	9 18	22 31.42	- 7 43.5	1.890	2.860	6.5	19.9
9 28	22 29.77	-10 45.2	0.888	1.826	15.9	19.9	9 28	22 25.18	- 8 37.1	1.953	2.864	10.1	20.1
10 8	22 29.19	-11 7.0	0.951	1.833	20.5	20.2	10 8	22 20.90	- 9 18.5	2.041	2.868	13.3	20.3
<b>331137</b>	2010 <i>VR</i> <sub>119</sub>		9 1.7 240°32	2°6/30.6	18		<b>329162</b>	2012 <i>BC</i> <sub>88</sub>		9 1.8 307°57	2°7/29.7	18	
7 30	23 9.11	-11 17.1	1.551	2.438	14.6	21.2	7 30	23 2.88	-12 9.1	2.031	2.918	11.7	20.3
8 9	23 4.09	-12 11.0	1.481	2.431	10.7	21.0	8 9	22 59.07	-13 21.3	1.956	2.907	8.5	20.1
8 19	22 56.70	-13 14.2	1.434	2.425	6.3	20.7	8 19	22 53.52	-14 41.2	1.905	2.896	5.1	19.8
8 29	22 47.68	-14 19.6	1.412	2.418	2.7	20.5	8 29	22 46.81	-16 2.5	1.881	2.885	2.7	19.7
9 8	22 38.15	-15 18.8	1.416	2.410	4.9	20.6	9 8	22 39.70	-17 17.9	1.885	2.875	4.6	19.8
9 18	22 29.30	-16 4.7	1.446	2.403	9.4	20.8	9 18	22 33.02	-18 21.1	1.916	2.865	8.1	20.0
9 28	22 22.26	-16 32.6	1.499	2.395	13.6	21.1	9 28	22 27.61	-19 7.8	1.972	2.855	11.5	20.2
10 8	22 17.79	-16 40.8	1.573	2.387	17.2	21.3	10 8	22 24.07	-19 35.7	2.049	2.845	14.4	20.3
<b>232965</b>	2005 <i>EF</i> <sub>66</sub>		9 1.7 112°00	6°3/25.7	18		<b>152334</b>	2005 <i>UC</i> <sub>37</sub>		9 1.8 229°47	2°3/ 4.5	18	
7 30	23 7.04	-22 46.1	1.957	2.848	11.8	20.1	7 30	23 4.28	+ 2 14.3	2.550	3.377	11.5	20.7
8 9	23 2.10	-24 24.7	1.912	2.857	9.0	20.0	8 9	22 59.75	+ 1 56.9	2.460	3.369	9.0	20.5
8 19	22 55.27	-26 0.5	1.893	2.866	6.8	19.9	8 19	22 53.78	+ 1 26.0	2.394	3.360	6.1	20.3
8 29	22 47.24	-27 24.8	1.900	2.875	6.4	19.9	8 29	22 46.87	+ 0 43.6	2.354	3.351	3.3	20.1
9 8	22 38.94	-28 30.4	1.933	2.884	8.1	20.0	9 8	22 39.61	- 0 6.9	2.343	3.342	2.6	20.1
9 18	22 31.33	-29 12.8	1.992	2.893	10.7	20.2	9 18	22 32.69	- 1 1.3	2.360	3.332	5.2	20.2
9 28	22 25.26	-29 30.8	2.074	2.901	13.2	20.4	9 28	22 26.77	- 1 54.9	2.406	3.323	8.2	20.4
10 8	22 21.31	-29 25.9	2.176	2.910	15.5	20.6	10 8	22 22.36	- 2 43.3	2.476	3.312	10.9	20.6
<b>249763</b>	2000 <i>UW</i> <sub>61</sub>		9 1.7 324°66	5°5/ 7.1	18		<b>24237</b>	1999 <i>XL</i> <sub>97</sub>		9 1.8 83°90	3°5/ 5.7	18	
7 30	23 3.12	+ 8 50.4	1.885	2.699	15.5	20.0	7 30	23 5.44	+ 4 59.1	2.329	3.146	12.8	18.2
8 9	22 59.37	+ 8 57.9	1.799	2.689	12.7	19.8	8 9	23 0.56	+ 4 59.6	2.263	3.160	10.1	18.0
8 19	22 53.76	+ 8 44.0	1.733	2.679	9.6	19.6	8 19	22 54.23	+ 4 45.1	2.219	3.175	7.2	17.9
8 29	22 46.87	+ 8 8.6	1.691	2.670	6.7	19.4	8 29	22 46.97	+ 4 16.8	2.201	3.189	4.5	17.7
9 8	22 39.49	+ 7 14.7	1.673	2.660	5.5	19.3	9 8	22 39.50	+ 3 37.9	2.210	3.204	3.6	17.7
9 18	22 32.54	+ 6 7.6	1.682	2.651	7.2	19.4	9 18	22 32.53	+ 2 52.6	2.248	3.218	5.6	17.8
9 28	22 26.92	+ 4 54.3	1.716	2.643	10.3	19.5	9 28	22 26.73	+ 2 5.8	2.313	3.232	8.3	18.0
10 8	22 23.30	+ 3 42.6	1.774	2.635	13.4	19.7	10 8	22 22.58	+ 1 22.1	2.402	3.246	11.0	18.2
<b>168705</b>	2000 <i>HN</i>		9 1.7 228°91	2°0/ 3.9	18		<b>261677</b>	2005 <i>YY</i> <sub>181</sub>		9 1.8 221°01	5°6/ 9.2	18	
7 30	23 4.83	+ 1 0.5	2.121	2.963	13.0	20.8	7 30	23 4.33	+14 36.6	2.940	3.686	12.0	20.8
8 9	23 0.37	+ 0 31.7	2.038	2.957	10.0	20.5	8 9	22 59.68	+14 49.4	2.842	3.678	10.2	20.7
8 19	22 54.24	- 0 12.7	1.978	2.951	6.6	20.3	8 19	22 53.71	+14 45.4	2.766	3.669	8.2	20.5
8 29	22 46.98	- 1 9.9	1.944	2.945	3.1	20.1	8 29	22 46.85	+14 24.4	2.715	3.660	6.5	20.4
9 8	22 39.33	- 2 15.3	1.937	2.939	2.6	20.1	9 8	22 39.66	+13 47.4	2.690	3.651	5.6	20.3
9 18	22 32.11	- 3 23.0	1.959	2.932	6.0	20.3	9 18	22 32.74	+12 57.3	2.694	3.641	6.1	20.3
9 28	22 26.11	- 4 27.1	2.007	2.925	9.5	20.5	9 28	22 26.70	+11 58.3	2.724	3.630	7.8	20.4
10 8	22 21.91	- 5 22.4	2.080	2.918	12.7	20.7	10 8	22 22.03	+10 55.6	2.781	3.620	9.8	20.6
<b>317227</b>	2002 <i>CU</i> <sub>162</sub>		9 1.7 263°82	2°2/30.9	18		<b>447999</b>	2008 <i>CM</i> <sub>202</sub>		9 1.8 37°60	0°6/ 1.2	18	
7 30	23 9.38	-11 43.9	1.767	2.649	13.4	20.9	7 30	23 2.69	- 4 46.3	1.585	2.466	14.7	20.5
8 9	23 4.10	-12 18.4	1.688	2.635	9.8	20.7	8 9	22 59.02	- 6 0.2	1.541	2.487	10.7	20.3
8 19	22 56.64	-13 0.1	1.631	2.621	5.9	20.4	8 19	22 53.46	- 7 28.1	1.519	2.509	6.2	20.1
8 29	22 47.67	-13 43.3	1.601	2.607	2.3	20.2	8 29	22 46.77	- 9 2.6	1.523	2.532	1.6	19.8
9 8	22 38.17	-14 21.7	1.597	2.593	4.3	20.3	9 8	22 39.89	-10 34.9	1.554	2.555	3.2	20.0
9 18	22 29.22	-14 49.7	1.620	2.579	8.5	20.5	9 18	22 33.77	-11 56.9	1.611	2.579	7.6	20.3
9 28	22 21.86	-15 3.4	1.668	2.564	12.5	20.7	9 28	22 29.25	-13 2.4	1.693	2.603	11.4	20.6
10 8	22 16.83	-15 1.3	1.737	2.549	15.9	20.9	10 8	22 26.83	-13 48.6	1.796	2.628	14.6	20.9
<b>513418</b>	2008 <i>TP</i> <sub>72</sub>		9 1.7 291°66	0°7/ 1.2	18		<b>9079</b>	Gesner		9 1.8 41°36	0°4/ 1.3	18	
7 30	23 7.80	- 8 4.0	1.661	2.540	14.2	21.9	7 30	23 3.05	- 5 10.1	1.946	2.817	12.8	17.6
8 9	23 3.01	- 8 28.7	1.584	2.529	10.5	21.7	8 9	22 59.12	- 6 10.4	1.881	2.822	9.4	17.4
8 19	22 56.02	- 9 3.8	1.529	2.518	6.3	21.4	8 19	22 53.51	- 7 23.1	1.839	2.827	5.5	17.2
8 29	22 47.51	- 9 44.8	1.498	2.507	1.7	21.1	8 29	22 46.80	- 8 42.9	1.824	2.832	1.5	17.0
9 8	22 38.47	-10 25.3	1.495	2.496	3.4	21.2	9 8	22 39.80	-10 2.8	1.837	2.838	2.8	17.1
9 18	22 30.01	-10 59.5	1.517	2.485	8.0	21.4	9 18	22 33.34	-11 16.3	1.877	2.844	6.8	17.3
9 28	22 23.17	-11 22.6	1.564	2.474	12.3	21.7	9 28	22 28.19	-12 17.7	1.943	2.849	10.4	17.6
10 8	22 18.71	-11 31.6	1.633	2.463	15.9	21.9	10 8	22 24.92	-13 3.6	2.032	2.856	13.5	17.8
<b>50599</b>	2000 <i>EM</i> <sub>48</sub>		9 1.7 356°97	2°4/30.8	18		<b>479522</b>	2014 <i>BT</i> <sub>29</sub>		9 1.8 259°74	1°2/ 2.7	18	

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>369930</b>	2013 <i>EE</i> <sub>99</sub>		9 1.8 302°57	2°0/ 3.9 18			<b>451130</b>	2009 <i>NB</i>		9 1.8 5°71	8°4/ 8.7 17		
7 30	23 2.66	+ 1 35.0	2.043	2.887	13.3	21.0	7 30	23 1.59	+11 9.5	1.389	2.216	19.3	19.5
8 9	22 58.85	+ 0 52.3	1.962	2.882	10.2	20.8	8 9	22 58.70	+12 2.4	1.327	2.217	16.2	19.3
8 19	22 53.37	- 0 7.8	1.903	2.877	6.7	20.6	8 19	22 53.55	+12 28.3	1.282	2.220	12.9	19.1
8 29	22 46.78	- 1 21.9	1.870	2.872	3.1	20.4	8 29	22 46.88	+12 25.1	1.257	2.225	9.9	19.0
9 8	22 39.82	- 2 44.6	1.865	2.867	2.6	20.3	9 8	22 39.75	+11 54.6	1.254	2.231	8.4	18.9
9 18	22 33.29	- 4 9.0	1.888	2.863	6.0	20.5	9 18	22 33.30	+11 2.5	1.274	2.239	9.5	19.0
9 28	22 27.99	- 5 28.2	1.938	2.858	9.7	20.7	9 28	22 28.61	+ 9 57.4	1.317	2.249	12.2	19.2
10 8	22 24.48	- 6 36.8	2.011	2.853	12.9	21.0	10 8	22 26.38	+ 8 49.4	1.380	2.260	15.4	19.4
<b>494655</b>	1998 <i>WX</i> <sub>38</sub>		9 1.8 261°03	5°9/16.5 17			<b>52259</b>	1981 <i>EY</i> <sub>47</sub>		9 1.8 24°62	2°1/31.5 18		
7 30	22 58.51	+28 27.3	4.734	5.342	9.3	21.1	7 30	23 12.29	-13 27.7	1.524	2.411	14.8	18.3
8 9	22 55.06	+28 38.6	4.634	5.336	8.4	21.0	8 9	23 6.23	-13 23.4	1.469	2.418	10.9	18.0
8 19	22 50.81	+28 35.8	4.552	5.331	7.5	21.0	8 19	22 57.85	-13 22.3	1.435	2.426	6.4	17.8
8 29	22 46.04	+28 18.1	4.491	5.325	6.7	20.9	8 29	22 48.03	-13 19.9	1.427	2.434	2.4	17.6
9 8	22 41.09	+27 45.9	4.454	5.319	6.1	20.8	9 8	22 37.97	-13 11.6	1.445	2.443	4.2	17.7
9 18	22 36.33	+27 0.4	4.442	5.313	5.9	20.8	9 18	22 28.85	-12 54.4	1.489	2.452	8.6	18.0
9 28	22 32.12	+26 4.0	4.456	5.308	6.2	20.9	9 28	22 21.73	-12 26.7	1.557	2.462	12.6	18.3
10 8	22 28.77	+24 59.8	4.496	5.302	6.9	20.9	10 8	22 17.22	-11 48.4	1.646	2.473	16.0	18.5
<b>198467</b>	2004 <i>XD</i> <sub>24</sub>		9 1.8 221°63	2°5/30.1 18			<b>188573</b>	2004 <i>XL</i> <sub>126</sub>		9 1.8 350°39	3°0/29.8 18		
7 30	23 7.87	-12 58.4	2.222	3.098	11.2	21.3	7 30	23 2.94	-12 58.3	1.780	2.673	12.7	19.1
8 9	23 2.60	-13 54.1	2.144	3.088	8.2	21.1	8 9	22 59.27	-13 57.7	1.714	2.668	9.2	18.9
8 19	22 55.59	-14 55.6	2.090	3.078	4.9	20.9	8 19	22 53.71	-15 3.7	1.672	2.664	5.5	18.7
8 29	22 47.41	-15 57.1	2.064	3.067	2.5	20.7	8 29	22 46.91	-16 9.7	1.656	2.660	3.0	18.5
9 8	22 38.82	-16 52.7	2.066	3.056	4.3	20.8	9 8	22 39.74	-17 8.3	1.666	2.657	5.0	18.6
9 18	22 30.67	-17 37.5	2.097	3.044	7.6	21.0	9 18	22 33.14	-17 53.7	1.702	2.654	8.6	18.9
9 28	22 23.78	-18 7.8	2.153	3.031	10.8	21.2	9 28	22 27.99	-18 21.8	1.762	2.652	12.2	19.1
10 8	22 18.76	-18 22.2	2.232	3.018	13.6	21.3	10 8	22 24.91	-18 31.3	1.842	2.651	15.3	19.3
<b>481461</b>	2006 <i>XV</i> <sub>55</sub>		9 1.8 141°99	4°4/ 6.9 18			<b>181456</b>	2006 <i>TG</i> <sub>36</sub>		9 1.8 135°00	3°9/ 5.2 17		
7 30	23 6.90	+ 8 42.0	2.685	3.470	12.1	21.4	7 30	23 7.85	+ 4 35.7	1.619	2.456	16.6	20.1
8 9	23 1.53	+ 8 58.5	2.607	3.479	9.9	21.2	8 9	23 2.99	+ 4 24.0	1.550	2.461	13.1	19.9
8 19	22 54.79	+ 9 0.4	2.552	3.487	7.5	21.1	8 19	22 55.99	+ 3 50.5	1.501	2.466	9.1	19.7
8 29	22 47.16	+ 8 47.6	2.523	3.495	5.3	21.0	8 29	22 47.55	+ 2 57.3	1.476	2.470	5.3	19.4
9 8	22 39.27	+ 8 22.2	2.522	3.503	4.5	20.9	9 8	22 38.70	+ 1 49.7	1.477	2.475	4.2	19.4
9 18	22 31.78	+ 7 47.2	2.549	3.510	5.7	21.0	9 18	22 30.51	+ 0 35.1	1.504	2.479	7.3	19.6
9 28	22 25.33	+ 7 6.8	2.604	3.517	7.9	21.2	9 28	22 24.00	- 0 38.3	1.557	2.483	11.2	19.8
10 8	22 20.39	+ 6 25.5	2.685	3.523	10.1	21.3	10 8	22 19.85	- 1 43.3	1.633	2.487	14.8	20.1
<b>361064</b>	2005 <i>YH</i> <sub>192</sub>		9 1.8 353°78	4°6/28.0 18			<b>164058</b>	2003 <i>WV</i> <sub>11</sub>		9 1.8 346°75	1°0/ 1.2 18		
7 30	23 2.19	-16 29.3	1.721	2.622	12.7	19.6	7 30	23 7.31	- 9 33.4	1.354	2.247	15.9	18.9
8 9	22 58.80	-17 50.3	1.661	2.617	9.3	19.4	8 9	23 3.01	- 9 37.6	1.286	2.239	11.8	18.6
8 19	22 53.46	-19 15.4	1.625	2.614	6.0	19.2	8 19	22 56.18	- 9 51.0	1.240	2.231	7.0	18.3
8 29	22 46.82	-20 36.4	1.614	2.611	4.6	19.1	8 29	22 47.63	-10 8.7	1.216	2.224	1.9	18.0
9 8	22 39.83	-21 45.0	1.629	2.608	6.6	19.2	9 8	22 38.56	-10 24.8	1.217	2.219	3.8	18.1
9 18	22 33.43	-22 34.8	1.670	2.607	10.0	19.4	9 18	22 30.26	-10 33.9	1.243	2.214	8.9	18.4
9 28	22 28.54	-23 2.6	1.733	2.606	13.3	19.6	9 28	22 23.92	-10 31.8	1.291	2.211	13.6	18.7
10 8	22 25.79	-23 7.9	1.816	2.606	16.2	19.8	10 8	22 20.33	-10 16.4	1.360	2.208	17.5	18.9
<b>305190</b>	2007 <i>VS</i> <sub>323</sub>		9 1.8 271°82	5°7/ 7.7 18			<b>74391</b>	1998 <i>XC</i> <sub>41</sub>		9 1.8 299°80	0°5/ 2.2 18		
7 30	23 4.42	+10 43.8	2.019	2.815	15.2	20.9	7 30	23 10.33	- 6 28.5	1.822	2.688	13.8	19.0
8 9	23 0.28	+10 44.0	1.926	2.803	12.6	20.7	8 9	23 4.69	- 6 20.4	1.744	2.680	10.3	18.8
8 19	22 54.33	+10 22.2	1.854	2.791	9.7	20.5	8 19	22 56.97	- 6 21.1	1.688	2.673	6.3	18.6
8 29	22 47.09	+ 9 38.0	1.805	2.778	7.0	20.3	8 29	22 47.83	- 6 28.0	1.658	2.665	2.0	18.3
9 8	22 39.35	+ 8 34.3	1.782	2.765	5.7	20.2	9 8	22 38.24	- 6 37.1	1.655	2.658	2.7	18.3
9 18	22 31.99	+ 7 16.2	1.786	2.753	7.1	20.3	9 18	22 29.22	- 6 44.7	1.680	2.651	7.1	18.6
9 28	22 25.89	+ 5 51.2	1.816	2.740	10.0	20.4	9 28	22 21.76	- 6 47.1	1.730	2.643	11.1	18.8
10 8	22 21.72	+ 4 27.0	1.870	2.727	13.1	20.6	10 8	22 16.55	- 6 41.7	1.803	2.637	14.5	19.0
<b>86187</b>	1999 <i>RQ</i> <sub>239</sub>		9 1.8 314°80	0°1/ 1.9 18			<b>154147</b>	2002 <i>FY</i> <sub>34</sub>		9 1.8 60°28	1°9/ 3.8 18		
7 30	23 1.64	- 3 13.9	1.967	2.834	12.9	18.8	7 30	23 4.22	+ 0 12.6	2.074	2.921	13.1	19.8
8 9	22 58.21	- 4 16.9	1.884	2.822	9.6	18.6	8 9	22 59.84	- 0 11.9	2.012	2.934	9.9	19.6
8 19	22 53.06	- 5 35.5	1.824	2.810	5.8	18.3	8 19	22 53.88	- 0 50.6	1.972	2.947	6.5	19.4
8 29	22 46.73	- 7 4.9	1.791	2.799	1.7	18.0	8 29	22 46.94	- 1 40.4	1.958	2.960	3.0	19.2
9 8	22 39.97	- 8 37.9	1.785	2.787	2.6	18.1	9 8	22 39.77	- 2 36.6	1.972	2.973	2.5	19.2
9 18	22 33.62	-10 7.0	1.807	2.776	6.8	18.3	9 18	22 33.14	- 3 33.8	2.013	2.987	5.8	19.5
9 28	22 28.51	-11 25.5	1.855	2.766	10.6	18.5	9 28	22 27.79	- 4 26.6	2.081	3.000	9.1	19.7
10 8	22 25.25	-12 28.3	1.926	2.755	13.9	18.7	10 8	22 24.21	- 5 10.7	2.173	3.014	12.1	19.9
<b>60588</b>	2000 <i>EQ</i> <sub>139</sub>		9 1.8 70°67	5°1/28.9 18			<b>315363</b>	2007 <i>UZ</i> <sub>127</sub>		9 1.8 45°96	6°4/28.3 18		
7 30	23 10.68	-17 45.2	1.451	2.347	14.8	18.2	7 30	23 9.44	-18 7.2	1.161	2.071	16.7	19.5
8 9	23 5.16	-18 46.2	1.406	2.359	10.9	18.0	8 9	23 4.73	-19 28.1	1.122	2.081	12.4	19.3
8 19	22 57.24	-19 48.2	1.384	2.371	7.1	17.8	8 19	22 57.19	-20 50.5	1.102	2.091	8.2	19.1
8 29	22 47.86	-20 42.4	1.386	2.383	5.1	17.7	8 29	22 47.89	-22 2.3	1.106	2.102	6.4	19.0
9 8	22 38.24	-21 20.6	1.413	2.395	7.1	17.9	9 8	22 38.30	-22 53.1	1.133	2.113	8.7	19.2
9 18	22 29.63	-21 38.3	1.466	2.407	10.8	18.1	9 18	22 29.91	-23 16.8	1.183	2.124	12.7	19.5
9 28	22 23.09	-21 33.8	1.541	2.419	14.4	18.4	9 28	22 23.94	-23 12.2	1.253	2.136	16.6	19.7
10 8	22 19.23	-21 8.9	1.635	2.431	17.4	18.6	10 8	22 21.04	-22 42.2	1.341	2.149	20.0	20.0
<b>27049</b>	<i>Kraus</i>		9 1.8 163°66	0°7/31.9 18									

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>346738</b>	2009 BA <sub>4</sub>		9 1.8 277°00	6°6/ 7.6 18			<b>476816</b>	2008 UP <sub>207</sub>		9 1.8 315°01	1°7/31.5 18		
7 30	23 6.80	+10 39.0	1.899	2.696	16.0	20.7	7 30	23 8.21	-10 22.7	1.548	2.435	14.6	21.7
8 9	23 2.19	+11 7.0	1.807	2.682	13.3	20.5	8 9	23 3.47	-10 48.3	1.476	2.425	10.8	21.4
8 19	22 55.56	+11 13.9	1.735	2.669	10.4	20.3	8 19	22 56.40	-11 22.6	1.425	2.416	6.4	21.2
8 29	22 47.48	+10 58.2	1.687	2.655	7.8	20.1	8 29	22 47.74	-12 0.0	1.399	2.407	2.1	20.9
9 8	22 38.81	+10 21.4	1.663	2.641	6.6	20.0	9 8	22 38.55	-12 34.0	1.399	2.398	4.1	21.0
9 18	22 30.52	+ 9 27.7	1.666	2.628	8.0	20.1	9 18	22 30.02	-12 58.8	1.425	2.390	8.7	21.3
9 28	22 23.59	+ 8 23.7	1.693	2.614	10.8	20.2	9 28	22 23.26	-13 10.0	1.474	2.382	13.0	21.5
10 8	22 18.79	+ 7 17.3	1.744	2.600	13.9	20.4	10 8	22 19.02	-13 5.7	1.544	2.374	16.7	21.7
<b>172144</b>	2002 JO <sub>101</sub>		9 1.8 115°28	0°5/ 2.2 17			<b>448396</b>	2009 QN <sub>45</sub>		9 1.8 13°24	2°8/ 5.2 18		
7 30	23 10.42	- 3 46.8	1.568	2.434	15.6	20.7	7 30	22 57.16	+ 7 19.7	1.442	2.292	17.6	19.1
8 9	23 4.81	- 4 25.0	1.512	2.449	11.6	20.5	8 9	22 55.28	+ 5 37.7	1.380	2.300	13.7	18.9
8 19	22 57.01	- 5 18.2	1.478	2.463	7.0	20.2	8 19	22 51.44	+ 3 23.5	1.338	2.309	9.3	18.7
8 29	22 47.83	- 6 20.9	1.469	2.477	2.1	20.0	8 29	22 46.33	+ 0 44.1	1.320	2.320	4.7	18.4
9 8	22 38.38	- 7 25.8	1.487	2.490	2.9	20.0	9 8	22 40.90	- 2 8.4	1.329	2.332	3.2	18.4
9 18	22 29.76	- 8 25.7	1.532	2.503	7.6	20.4	9 18	22 36.11	- 4 59.3	1.366	2.346	7.1	18.7
9 28	22 22.97	- 9 14.4	1.602	2.515	11.8	20.6	9 28	22 32.88	- 7 34.9	1.428	2.360	11.5	18.9
10 8	22 18.63	- 9 48.4	1.694	2.527	15.3	20.9	10 8	22 31.79	- 9 45.7	1.515	2.376	15.3	19.2
<b>254488</b>	2005 EK <sub>32</sub>		9 1.8 288°29	0°8/ 1.3 18			<b>419565</b>	2010 RT <sub>10</sub>		9 1.8 293°25	2°7/ 3.9 18		
7 30	23 12.45	- 9 13.8	1.365	2.249	16.4	20.5	7 30	23 5.75	+ 1 3.9	1.351	2.217	17.6	20.8
8 9	23 7.01	- 9 17.3	1.286	2.233	12.2	20.2	8 9	23 2.04	+ 0 40.2	1.269	2.201	13.7	20.5
8 19	22 58.73	- 9 30.3	1.228	2.218	7.3	19.9	8 19	22 55.77	- 0 7.2	1.206	2.185	9.1	20.2
8 29	22 48.41	- 9 48.2	1.194	2.202	2.0	19.5	8 29	22 47.62	- 1 15.7	1.166	2.169	4.2	19.9
9 8	22 37.32	-10 4.9	1.185	2.186	3.9	19.6	9 8	22 38.70	- 2 38.2	1.151	2.154	3.6	19.8
9 18	22 26.91	-10 14.6	1.201	2.170	9.4	19.9	9 18	22 30.32	- 4 5.1	1.161	2.138	8.4	20.1
9 28	22 18.57	-10 12.9	1.240	2.155	14.4	20.1	9 28	22 23.79	- 5 26.0	1.193	2.123	13.5	20.3
10 8	22 13.24	- 9 57.7	1.299	2.140	18.7	20.4	10 8	22 20.03	- 6 32.6	1.247	2.108	18.0	20.5
<b>268884</b>	2007 BU <sub>8</sub>		9 1.8 213°53	1°8/31.1 17			<b>405450</b>	2004 TR <sub>151</sub>		9 1.8 263°52	2°4/ 4.7 17		
7 30	23 9.01	-10 1.3	1.834	2.710	13.2	21.6	7 30	23 3.58	+ 2 40.6	2.487	3.315	11.8	21.9
8 9	23 3.74	-10 51.0	1.760	2.705	9.7	21.3	8 9	22 59.35	+ 2 18.8	2.391	3.299	9.2	21.7
8 19	22 56.41	-11 49.7	1.710	2.699	5.7	21.1	8 19	22 53.66	+ 1 42.5	2.317	3.283	6.3	21.5
8 29	22 47.70	-12 51.4	1.686	2.693	2.0	20.8	8 29	22 46.95	+ 0 53.7	2.270	3.267	3.4	21.3
9 8	22 38.55	-13 49.3	1.689	2.686	4.0	20.9	9 8	22 39.85	- 0 4.2	2.251	3.251	2.7	21.2
9 18	22 29.96	-14 37.2	1.720	2.679	8.1	21.2	9 18	22 33.05	- 1 6.6	2.261	3.234	5.3	21.4
9 28	22 22.90	-15 10.7	1.777	2.671	11.9	21.4	9 28	22 27.24	- 2 8.2	2.298	3.217	8.4	21.5
10 8	22 18.06	-15 27.5	1.855	2.663	15.2	21.6	10 8	22 22.96	- 3 4.3	2.361	3.200	11.3	21.7
<b>399047</b>	2013 KZ <sub>3</sub>		9 1.8 33°63	4°7/ 7.5 18			<b>349792</b>	2009 BO <sub>70</sub>		9 1.8 228°31	3°7/28.7 18		
7 30	23 2.66	+ 9 33.8	2.243	3.042	13.8	20.9	7 30	23 6.45	-15 34.3	2.142	3.025	11.3	21.5
8 9	22 58.71	+ 9 26.5	2.165	3.046	11.2	20.7	8 9	23 1.67	-16 50.6	2.069	3.017	8.3	21.3
8 19	22 53.25	+ 8 59.9	2.109	3.049	8.5	20.5	8 19	22 55.12	-18 11.5	2.021	3.008	5.2	21.1
8 29	22 46.80	+ 8 14.9	2.077	3.053	5.9	20.4	8 29	22 47.37	-19 30.1	2.001	2.998	3.7	20.9
9 8	22 40.04	+ 7 14.8	2.071	3.057	4.8	20.3	9 8	22 39.21	-20 39.5	2.008	2.988	5.5	21.0
9 18	22 33.72	+ 6 4.5	2.093	3.061	6.1	20.4	9 18	22 31.51	-21 34.2	2.043	2.978	8.6	21.2
9 28	22 28.54	+ 4 50.1	2.142	3.065	8.7	20.6	9 28	22 25.09	-22 10.6	2.103	2.968	11.7	21.4
10 8	22 25.02	+ 3 38.1	2.215	3.070	11.4	20.8	10 8	22 20.58	-22 27.7	2.185	2.956	14.4	21.6
<b>253629</b>	2003 UO <sub>97</sub>		9 1.8 254°98	2°8/ 4.2 18			<b>267741</b>	2003 FX <sub>107</sub>		9 1.8 63°99	3°1/ 4.4 17		
7 30	23 7.77	+ 2 4.5	1.675	2.521	15.7	21.1	7 30	23 10.47	+ 1 51.6	1.489	2.339	17.1	20.2
8 9	23 3.13	+ 1 41.2	1.585	2.504	12.3	20.8	8 9	23 4.76	+ 1 44.2	1.447	2.368	13.1	20.0
8 19	22 56.24	+ 0 57.3	1.515	2.487	8.3	20.6	8 19	22 56.91	+ 1 17.3	1.425	2.397	8.7	19.9
8 29	22 47.70	- 0 5.2	1.469	2.470	4.2	20.3	8 29	22 47.82	+ 0 34.3	1.427	2.427	4.5	19.7
9 8	22 38.49	- 1 20.6	1.451	2.452	3.4	20.2	9 8	22 38.62	- 0 18.7	1.456	2.456	3.6	19.7
9 18	22 29.70	- 2 41.3	1.458	2.433	7.4	20.4	9 18	22 30.41	- 1 14.6	1.510	2.485	7.2	20.0
9 28	22 22.45	- 3 58.9	1.492	2.414	11.8	20.6	9 28	22 24.11	- 2 6.5	1.590	2.514	11.1	20.3
10 8	22 17.57	- 5 6.0	1.548	2.395	15.8	20.8	10 8	22 20.28	- 2 48.9	1.692	2.543	14.5	20.6
<b>312618</b>	2009 SQ <sub>246</sub>		9 1.8 310°46	0°0/ 1.7 13 C			<b>266744</b>	2009 SE <sub>50</sub>		9 1.8 264°43	0°6/ 2.6 18		
7 30	22 58.23	- 6 14.9	3.904	4.760	7.3	21.4	7 30	23 3.85	- 3 11.5	2.615	3.464	10.6	21.8
8 9	22 54.94	- 6 45.9	3.814	4.747	5.3	21.2	8 9	22 59.51	- 3 45.5	2.517	3.444	8.0	21.6
8 19	22 50.79	- 7 22.6	3.749	4.734	3.2	21.1	8 19	22 53.73	- 4 30.3	2.443	3.424	4.9	21.3
8 29	22 46.09	- 8 2.7	3.713	4.721	0.9	20.9	8 29	22 46.98	- 5 23.0	2.397	3.403	1.7	21.1
9 8	22 41.21	- 8 43.6	3.707	4.709	1.5	20.9	9 8	22 39.84	- 6 19.6	2.380	3.383	2.0	21.1
9 18	22 36.52	- 9 22.8	3.731	4.696	3.8	21.1	9 18	22 32.96	- 7 15.6	2.392	3.361	5.3	21.3
9 28	22 32.42	- 9 57.7	3.782	4.684	6.0	21.2	9 28	22 27.02	- 8 6.6	2.431	3.340	8.5	21.4
10 8	22 29.23	-10 26.4	3.859	4.672	7.9	21.3	10 8	22 22.55	- 8 48.8	2.496	3.318	11.3	21.6
<b>98607</b>	2000 WX <sub>72</sub>		9 1.8 134°99	1°7/31.6 18			<b>314007</b>	2004 UO <sub>5</sub>		9 1.8 317°61	3°0/31.2 18		
7 30	23 12.49	-10 29.3	1.454	2.337	15.6	19.4	7 30	23 12.71	-13 28.3	1.167	2.066	17.4	20.0
8 9	23 6.59	-10 55.6	1.394	2.341	11.4	19.2	8 9	23 7.48	-13 39.9	1.100	2.056	12.9	19.7
8 19	22 58.21	-11 30.3	1.355	2.345	6.8	18.9	8 19	22 59.12	-13 57.4	1.053	2.045	7.8	19.4
8 29	22 48.21	-12 7.4	1.341	2.349	2.2	18.6	8 29	22 48.56	-14 13.7	1.028	2.035	3.3	19.1
9 8	22 37.81	-12 39.8	1.353	2.352	4.2	18.8	9 8	22 37.28	-14 21.4	1.028	2.025	5.6	19.2
9 18	22 28.30	-13 1.8	1.391	2.355	9.0	19.1	9 18	22 26.96	-14 14.7	1.051	2.016	10.9	19.5
9 28	22 20.83	-13 9.7	1.453	2.358	13.3	19.3	9 28	22 19.09	-13 51.1	1.095	2.008	16.0	19.8
10 8	22 16.11	-13 2.2	1.536	2.361	17.0	19.6	10 8	22 14.59	-13 10.5	1.158	2.000	20.3	20.0
<b>65122</b>	2002 CB <sub>59</sub>		9 1.8 245°13	8°6/13.8 18 R			<b>291406</b>	2006 DP <sub>1</sub>		9 1.8 231°59	1°8/31.1 18		
7 30	23 5.37	+25 17.5	2.826	3.									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>91899</b>	1999 VT <sub>11</sub>		9 1.8 311°57	4°0/ 6.2 18			<b>389070</b>	2008 WE <sub>70</sub>		9 1.8 150°40	2°7/ 4.4 18		
7 30	23 2.54	+ 6 42.0	2.079	2.898	14.0	19.0	7 30	23 7.16	+ 1 48.4	1.989	2.827	13.9	21.9
8 9	22 58.82	+ 6 26.8	1.991	2.889	11.3	18.8	8 9	23 2.18	+ 1 36.6	1.916	2.831	10.8	21.7
8 19	22 53.44	+ 5 52.2	1.924	2.879	8.2	18.6	8 19	22 55.41	+ 1 9.0	1.865	2.835	7.2	21.5
8 29	22 46.91	+ 4 59.3	1.882	2.870	5.2	18.4	8 29	22 47.48	+ 0 27.8	1.840	2.838	3.8	21.3
9 8	22 39.97	+ 3 52.0	1.866	2.860	4.1	18.3	9 8	22 39.20	- 0 22.7	1.842	2.842	3.1	21.3
9 18	22 33.42	+ 2 35.9	1.878	2.851	6.2	18.4	9 18	22 31.45	- 1 17.1	1.871	2.845	6.2	21.5
9 28	22 28.05	+ 1 17.8	1.916	2.842	9.4	18.6	9 28	22 25.07	- 2 9.6	1.927	2.847	9.7	21.7
10 8	22 24.48	+ 0 4.5	1.979	2.834	12.5	18.8	10 8	22 20.64	- 2 55.2	2.007	2.850	12.9	21.9
<b>268843</b>	2006 WA <sub>153</sub>		9 1.8 160°77	1°7/31.3 17			<b>448691</b>	2010 WC <sub>64</sub>		9 1.8 321°47	6°4/25.9 18		
7 30	23 9.99	-10 15.0	1.860	2.734	13.1	21.3	7 30	23 5.60	-24 1.5	1.975	2.868	11.7	20.4
8 9	23 4.33	-10 58.9	1.796	2.739	9.6	21.1	8 9	23 1.23	-25 17.6	1.914	2.859	9.0	20.2
8 19	22 56.70	-11 50.6	1.755	2.744	5.6	20.9	8 19	22 54.93	-26 30.9	1.877	2.850	6.9	20.1
8 29	22 47.81	-12 44.3	1.741	2.748	2.0	20.6	8 29	22 47.35	-27 33.6	1.866	2.841	6.5	20.0
9 8	22 38.58	-13 33.6	1.755	2.751	3.8	20.8	9 8	22 39.40	-28 18.7	1.880	2.833	8.2	20.1
9 18	22 30.01	-14 13.2	1.796	2.755	7.8	21.0	9 18	22 32.02	-28 42.2	1.920	2.825	10.8	20.2
9 28	22 23.01	-14 39.2	1.863	2.757	11.4	21.3	9 28	22 26.11	-28 42.4	1.982	2.817	13.5	20.4
10 8	22 18.20	-14 49.9	1.951	2.759	14.6	21.5	10 8	22 22.31	-28 20.7	2.063	2.809	15.9	20.6
<b>208245</b>	2000 TP <sub>52</sub>		9 1.8 113°00	5°6/29.0 17			<b>14119</b>	Johnprince		9 1.8 309°91	3°5/ 4.1 18		
7 30	23 14.45	-19 10.0	1.414	2.307	15.4	20.3	7 30	23 8.42	+ 0 22.7	1.391	2.254	17.4	17.8
8 9	23 8.09	-20 0.6	1.364	2.314	11.4	20.1	8 9	23 3.96	+ 0 41.1	1.312	2.241	13.6	17.5
8 19	22 59.11	-20 50.6	1.336	2.321	7.6	19.9	8 19	22 56.90	+ 0 41.3	1.252	2.228	9.2	17.2
8 29	22 48.48	-21 31.0	1.333	2.328	5.6	19.8	8 29	22 47.97	+ 0 24.1	1.215	2.215	4.9	17.0
9 8	22 37.55	-21 54.1	1.355	2.335	7.5	19.9	9 8	22 38.32	- 0 6.4	1.202	2.203	4.1	16.9
9 18	22 27.72	-21 55.7	1.402	2.341	11.3	20.2	9 18	22 29.25	- 0 44.2	1.215	2.191	8.3	17.1
9 28	22 20.13	-21 35.1	1.471	2.348	15.0	20.4	9 28	22 22.06	- 1 22.1	1.250	2.180	13.0	17.3
10 8	22 15.47	-20 54.8	1.559	2.354	18.2	20.7	10 8	22 17.65	- 1 53.2	1.306	2.169	17.2	17.6
<b>451792</b>	2013 HC <sub>5</sub>		9 1.8 15°39	11°1/20.8 18			<b>257370</b>	2009 OR <sub>24</sub>		9 1.8 83°28	1°0/31.6 18 R		
7 30	23 11.41	-40 3.8	1.963	2.822	13.2	20.0	7 30	23 2.77	- 6 41.7	2.237	3.106	11.4	19.9
8 9	23 5.61	-41 23.0	1.932	2.825	11.8	19.9	8 9	22 58.80	- 7 54.8	2.169	3.111	8.3	19.7
8 19	22 57.50	-42 24.7	1.923	2.828	11.1	19.9	8 19	22 53.33	- 9 18.3	2.127	3.116	4.8	19.5
8 29	22 48.00	-43 0.7	1.937	2.832	11.5	19.9	8 29	22 46.89	-10 46.7	2.112	3.120	1.4	19.3
9 8	22 38.32	-43 6.3	1.972	2.836	12.6	20.0	9 8	22 40.18	-12 13.5	2.126	3.125	3.0	19.4
9 18	22 29.64	-42 40.6	2.029	2.840	14.2	20.1	9 18	22 33.92	-13 32.5	2.169	3.130	6.5	19.7
9 28	22 22.97	-41 46.3	2.105	2.845	15.9	20.3	9 28	22 28.80	-14 38.7	2.239	3.135	9.7	19.9
10 8	22 18.88	-40 28.6	2.198	2.850	17.4	20.4	10 8	22 25.34	-15 29.2	2.331	3.139	12.5	20.1
<b>503663</b>	2016 GG <sub>242</sub>		9 1.8 118°44	0°5/ 2.2 17			<b>228794</b>	2003 AT <sub>13</sub>		9 1.8 229°64	3°6/ 5.3 18		
7 30	23 8.10	- 2 18.5	1.414	2.285	16.7	21.1	7 30	23 7.92	+ 4 47.6	2.011	2.833	14.3	21.2
8 9	23 3.40	- 3 17.3	1.354	2.293	12.5	20.9	8 9	23 2.89	+ 4 34.3	1.919	2.822	11.4	21.0
8 19	22 56.34	- 4 35.7	1.316	2.301	7.6	20.7	8 19	22 55.96	+ 4 2.3	1.849	2.809	8.0	20.7
8 29	22 47.73	- 6 7.2	1.302	2.309	2.3	20.4	8 29	22 47.67	+ 3 12.8	1.804	2.796	4.8	20.5
9 8	22 38.73	- 7 42.0	1.314	2.316	3.1	20.4	9 8	22 38.86	+ 2 9.9	1.786	2.783	3.8	20.4
9 18	22 30.54	- 9 10.6	1.352	2.324	8.2	20.8	9 18	22 30.44	+ 0 59.3	1.797	2.769	6.5	20.6
9 28	22 24.25	-10 24.5	1.414	2.331	12.8	21.0	9 28	22 23.33	- 0 12.2	1.834	2.754	10.1	20.8
10 8	22 20.56	-11 18.8	1.497	2.337	16.6	21.3	10 8	22 18.22	- 1 17.9	1.895	2.739	13.5	21.0
<b>8508</b>	1991 CU <sub>1</sub>		9 1.8 199°06	2°3/ 3.7 18			<b>350445</b>	1995 CC <sub>6</sub>		9 1.8 258°91	1°1/ 2.8 16		
7 30	23 10.30	- 0 5.0	1.738	2.586	15.2	17.8	7 30	23 6.79	- 2 52.7	2.062	2.916	12.8	22.7
8 9	23 4.78	- 0 17.4	1.661	2.583	11.7	17.6	8 9	23 1.99	- 3 11.9	1.974	2.903	9.7	22.4
8 19	22 57.11	- 0 46.4	1.605	2.580	7.6	17.3	8 19	22 55.38	- 3 43.7	1.908	2.889	6.1	22.2
8 29	22 47.96	- 1 29.4	1.574	2.577	3.5	17.1	8 29	22 47.51	- 4 25.2	1.869	2.875	2.3	21.9
9 8	22 38.32	- 2 21.2	1.571	2.573	3.1	17.0	9 8	22 39.16	- 5 11.8	1.858	2.861	2.4	21.9
9 18	22 29.26	- 3 15.7	1.595	2.568	7.1	17.3	9 18	22 31.22	- 5 58.4	1.875	2.846	6.4	22.1
9 28	22 21.80	- 4 6.2	1.644	2.562	11.2	17.5	9 28	22 24.54	- 6 39.9	1.918	2.832	10.1	22.3
10 8	22 16.67	- 4 47.5	1.716	2.557	14.8	17.7	10 8	22 19.77	- 7 12.2	1.984	2.817	13.4	22.5
<b>164181</b>	2004 BJ <sub>52</sub>		9 1.8 236°51	0°4/ 2.2 18			<b>13522</b>	1991 FG		9 1.8 164°53	3°3/ 6.4 18		
7 30	23 6.56	- 4 38.7	2.098	2.957	12.4	20.6	7 30	23 5.72	+ 7 36.5	2.864	3.654	11.3	19.9
8 9	23 1.73	- 5 5.1	2.017	2.950	9.3	20.4	8 9	23 0.65	+ 7 13.2	2.781	3.661	9.1	19.7
8 19	22 55.15	- 5 42.7	1.959	2.943	5.7	20.2	8 19	22 54.31	+ 6 35.0	2.722	3.667	6.6	19.6
8 29	22 47.40	- 6 27.9	1.928	2.936	1.7	19.9	8 29	22 47.16	+ 5 43.2	2.690	3.673	4.3	19.5
9 8	22 39.25	- 7 16.0	1.925	2.928	2.4	19.9	9 8	22 39.78	+ 4 41.1	2.688	3.678	3.4	19.4
9 18	22 31.55	- 8 1.7	1.950	2.920	6.3	20.2	9 18	22 32.75	+ 3 32.7	2.715	3.682	4.9	19.5
9 28	22 25.12	- 8 40.4	2.002	2.912	10.0	20.4	9 28	22 26.67	+ 2 23.0	2.770	3.686	7.3	19.7
10 8	22 20.56	- 9 8.6	2.076	2.903	13.1	20.6	10 8	22 21.98	+ 1 16.5	2.853	3.688	9.7	19.8
<b>72425</b>	2001 CS <sub>39</sub>		9 1.8 147°49	3°1/30.1 18			<b>94370</b>	2001 RA <sub>148</sub>		9 1.8 12°32	6°4/31.7 16		
7 30	23 12.06	-15 58.8	2.055	2.931	12.0	19.9	7 30	23 32.61	-23 34.3	0.882	1.778	22.0	18.4
8 9	23 5.65	-16 28.9	1.994	2.938	8.8	19.7	8 9	23 22.83	-22 43.0	0.830	1.779	16.9	18.1
8 19	22 57.40	-17 0.5	1.958	2.944	5.4	19.5	8 19	23 8.44	-21 36.1	0.795	1.780	11.1	17.8
8 29	22 48.00	-17 28.4	1.949	2.950	3.1	19.4	8 29	22 51.15	-20 5.3	0.782	1.783	6.7	17.6
9 8	22 38.36	-17 47.5	1.968	2.956	4.7	19.5	9 8	22 33.58	-18 8.8	0.793	1.786	8.3	17.7
9 18	22 29.42	-17 54.6	2.015	2.961	8.0	19.7	9 18	22 18.33	-15 52.8	0.828	1.790	13.7	18.0
9 28	22 22.01	-17 47.9	2.088	2.966	11.1	20.0	9 28	22 7.28	-13 26.9	0.884	1.794	19.2	18.4
10 8	22 16.71	-17 27.7	2.184	2.971	13.9	20.2	10 8	22 1.14	-10 59.8	0.958	1.799	23.7	18.7
<b>269732</b>	1998 SG <sub>86</sub>		9 1.8 346°95	1°2/ 2.6 18			<b>24381</b>	2000 AA <sub>166</sub>		9 1.8 287°92	6°4/ 9.6 18		
7 30	22 59.99	- 3 37.0	0.983	1.890	19.2	19.							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>504855</b>	2010 <i>TP</i> <sub>100</sub>		9 1.8 283°67	2°8/30.8	17		<b>390367</b>	2013 <i>JP</i> <sub>55</sub>		9 1.8 61°65	3°9/28.3	18	
7 30	23 10.05	-11 52.7	1.386	2.278	15.7	21.5	7 30	23 5.02	-18 8.0	2.268	3.154	10.6	20.2
8 9	23 5.22	-12 34.0	1.310	2.263	11.6	21.2	8 9	23 0.46	-19 8.5	2.211	3.159	7.8	20.1
8 19	22 57.69	-13 24.8	1.256	2.247	6.9	20.9	8 19	22 54.33	-20 9.9	2.179	3.164	5.1	19.9
8 29	22 48.21	-14 17.9	1.225	2.232	3.0	20.6	8 29	22 47.22	-21 6.2	2.175	3.169	3.9	19.9
9 8	22 38.02	-15 4.5	1.220	2.216	5.3	20.7	9 8	22 39.88	-21 51.9	2.198	3.174	5.5	20.0
9 18	22 28.49	-15 37.4	1.240	2.200	10.2	20.9	9 18	22 33.05	-22 23.2	2.248	3.179	8.1	20.1
9 28	22 20.96	-15 51.6	1.282	2.185	14.9	21.2	9 28	22 27.47	-22 38.0	2.323	3.184	10.8	20.3
10 8	22 16.32	-15 45.6	1.343	2.170	18.9	21.4	10 8	22 23.64	-22 36.2	2.419	3.189	13.2	20.5
<b>329551</b>	2002 <i>TW</i> <sub>366</sub>		9 1.8 359°91	7°2/27.8	15		<b>449063</b>	2012 <i>FN</i> <sub>8</sub>		9 1.8 279°62	1°2/ 3.3	18	
7 30	23 5.72	-19 21.8	1.076	1.995	17.0	20.8	7 30	23 2.64	- 0 31.0	2.276	3.123	12.0	21.3
8 9	23 2.36	-20 38.6	1.029	1.992	12.7	20.5	8 9	22 58.78	- 1 15.8	2.190	3.115	9.1	21.1
8 19	22 56.02	-21 56.6	1.001	1.990	8.8	20.3	8 19	22 53.40	- 2 15.0	2.128	3.106	5.8	20.9
8 29	22 47.72	-23 3.4	0.995	1.989	7.2	20.2	8 29	22 46.99	- 3 25.3	2.092	3.097	2.3	20.6
9 8	22 38.94	-23 47.6	1.011	1.990	9.6	20.3	9 8	22 40.22	- 4 41.7	2.085	3.088	2.2	20.6
9 18	22 31.25	-24 2.5	1.048	1.992	13.7	20.6	9 18	22 33.81	- 5 58.1	2.106	3.079	5.7	20.8
9 28	22 25.99	-23 46.8	1.105	1.995	17.8	20.8	9 28	22 28.49	- 7 8.9	2.155	3.070	9.1	21.0
10 8	22 23.91	-23 3.4	1.178	1.999	21.4	21.1	10 8	22 24.79	- 8 9.3	2.227	3.061	12.1	21.2
<b>128718</b>	2004 <i>RD</i> <sub>124</sub>		9 1.8 288°50	4°1/28.5	18		<b>388607</b>	2007 <i>RB</i> <sub>284</sub>		9 1.8 168°83	3°5/ 5.9	18	
7 30	23 6.91	-18 26.0	2.183	3.068	11.0	20.2	7 30	23 4.53	+ 6 30.4	2.061	2.879	14.2	21.4
8 9	23 2.09	-19 18.2	2.098	3.044	8.2	20.0	8 9	23 0.26	+ 5 54.4	1.982	2.881	11.3	21.2
8 19	22 55.45	-20 12.2	2.037	3.021	5.5	19.8	8 19	22 54.31	+ 4 58.0	1.925	2.883	8.0	21.0
8 29	22 47.54	-21 2.1	2.004	2.998	4.1	19.7	8 29	22 47.24	+ 3 43.5	1.893	2.884	4.8	20.8
9 8	22 39.14	-21 41.8	1.997	2.974	5.8	19.7	9 8	22 39.83	+ 2 16.0	1.888	2.885	3.6	20.7
9 18	22 31.14	-22 6.7	2.018	2.951	8.8	19.9	9 18	22 32.88	+ 0 42.2	1.912	2.886	6.0	20.9
9 28	22 24.41	-22 14.3	2.064	2.927	11.9	20.0	9 28	22 27.19	- 0 50.2	1.963	2.887	9.4	21.1
10 8	22 19.60	-22 4.1	2.130	2.904	14.6	20.2	10 8	22 23.32	- 2 14.5	2.039	2.887	12.5	21.3
<b>482220</b>	2010 <i>XC</i> <sub>21</sub>		9 1.8 229°57	8°7/18.6	18		<b>3735</b>	Treboň		9 1.8 132°40	1°5/ 3.5	18 R	
7 30	23 10.32	-41 24.9	2.940	3.777	9.9	21.4	7 30	23 5.96	- 1 9.9	2.583	3.421	11.1	17.2
8 9	23 4.41	-42 47.8	2.894	3.765	9.0	21.3	8 9	23 0.92	- 1 23.8	2.513	3.431	8.4	17.1
8 19	22 56.72	-43 58.3	2.872	3.754	8.7	21.3	8 19	22 54.52	- 1 48.1	2.466	3.440	5.4	16.9
8 29	22 47.87	-44 50.4	2.874	3.741	9.1	21.3	8 29	22 47.27	- 2 20.7	2.447	3.450	2.4	16.7
9 8	22 38.67	-45 19.8	2.901	3.729	10.0	21.3	9 8	22 39.81	- 2 57.9	2.457	3.458	2.1	16.7
9 18	22 30.00	-45 24.9	2.950	3.716	11.3	21.4	9 18	22 32.78	- 3 36.2	2.495	3.467	5.0	16.9
9 28	22 22.66	-45 6.4	3.019	3.702	12.6	21.5	9 28	22 26.80	- 4 11.7	2.562	3.475	7.9	17.1
10 8	22 17.25	-44 26.9	3.105	3.688	13.8	21.6	10 8	22 22.34	- 4 41.3	2.653	3.483	10.5	17.3
<b>334715</b>	2003 <i>GN</i> <sub>41</sub>		9 1.8 60°08	3°4/ 5.4	18		<b>319276</b>	2006 <i>BG</i> <sub>59</sub>		9 1.8 226°97	0°1/ 1.9	18	
7 30	23 3.97	+ 6 3.2	1.542	2.382	17.1	20.5	7 30	23 4.64	- 5 35.3	2.654	3.510	10.3	22.2
8 9	23 0.21	+ 5 7.5	1.480	2.393	13.4	20.3	8 9	23 0.03	- 6 4.0	2.570	3.502	7.6	22.0
8 19	22 54.39	+ 3 45.3	1.437	2.404	9.2	20.1	8 19	22 54.04	- 6 41.0	2.511	3.495	4.6	21.8
8 29	22 47.24	+ 2 1.1	1.419	2.416	5.0	19.9	8 29	22 47.16	- 7 23.4	2.479	3.487	1.3	21.6
9 8	22 39.76	+ 0 3.5	1.427	2.428	3.7	19.8	9 8	22 39.97	- 8 7.2	2.477	3.479	2.0	21.6
9 18	22 32.98	- 1 57.2	1.462	2.440	7.1	20.1	9 18	22 33.13	- 8 48.7	2.503	3.470	5.3	21.8
9 28	22 27.85	- 3 50.3	1.523	2.452	11.2	20.4	9 28	22 27.25	- 9 24.1	2.557	3.462	8.3	22.0
10 8	22 24.98	- 5 27.5	1.606	2.464	14.8	20.6	10 8	22 22.84	- 9 50.6	2.636	3.453	10.9	22.2
<b>171501</b>	1997 <i>MZ</i> <sub>5</sub>		9 1.8 287°48	5°7/ 7.6	18		<b>56169</b>	1999 <i>FU</i> <sub>5</sub>		9 1.8 110°89	1°5/ 3.0	18	
7 30	23 5.33	+10 1.7	1.929	2.731	15.6	20.6	7 30	23 10.42	- 2 41.9	1.697	2.555	15.0	18.8
8 9	23 1.00	+10 9.6	1.848	2.729	12.8	20.4	8 9	23 4.79	- 2 50.3	1.634	2.564	11.3	18.6
8 19	22 54.83	+ 9 55.7	1.787	2.726	9.8	20.2	8 19	22 57.07	- 3 12.4	1.593	2.574	7.1	18.4
8 29	22 47.38	+ 9 20.0	1.750	2.724	7.0	20.0	8 29	22 48.01	- 3 45.1	1.578	2.583	2.8	18.1
9 8	22 39.50	+ 8 25.3	1.738	2.722	5.7	19.9	9 8	22 38.64	- 4 23.2	1.589	2.592	2.8	18.2
9 18	22 32.10	+ 7 16.9	1.753	2.719	7.2	20.0	9 18	22 30.00	- 5 1.2	1.628	2.601	7.0	18.5
9 28	22 26.04	+ 6 2.2	1.793	2.717	10.1	20.2	9 28	22 23.04	- 5 33.6	1.692	2.609	11.0	18.7
10 8	22 21.99	+ 4 48.5	1.857	2.715	13.1	20.4	10 8	22 18.40	- 5 56.7	1.778	2.618	14.4	19.0
<b>327686</b>	2006 <i>RE</i> <sub>58</sub>		9 1.8 320°61	0°7/ 2.4	18		<b>516742</b>	2009 <i>QQ</i> <sub>51</sub>		9 1.8 353°28	2°2/31.4	18	
7 30	23 3.02	- 2 41.5	1.202	2.091	17.8	20.3	7 30	23 11.08	-14 23.1	1.658	2.544	13.9	20.0
8 9	23 0.28	- 3 22.3	1.125	2.073	13.5	20.0	8 9	23 5.42	-14 12.5	1.590	2.538	10.2	19.8
8 19	22 54.86	- 4 26.3	1.067	2.055	8.4	19.7	8 19	22 57.52	-14 3.7	1.544	2.533	6.2	19.5
8 29	22 47.47	- 5 48.5	1.031	2.039	2.7	19.3	8 29	22 48.17	-13 52.6	1.523	2.529	2.5	19.3
9 8	22 39.29	- 7 19.4	1.019	2.022	3.5	19.3	9 8	22 38.43	-13 35.2	1.529	2.526	4.2	19.4
9 18	22 31.71	- 8 47.7	1.030	2.007	9.4	19.6	9 18	22 29.46	-13 8.9	1.562	2.524	8.3	19.7
9 28	22 26.10	-10 2.5	1.063	1.992	14.8	19.9	9 28	22 22.27	-12 32.3	1.619	2.523	12.3	19.9
10 8	22 23.42	-10 56.4	1.115	1.979	19.4	20.1	10 8	22 17.55	-11 45.7	1.697	2.523	15.6	20.1
<b>174984</b>	2004 <i>EE</i> <sub>5</sub>		9 1.8 263°87	1°3/31.5	18		<b>327146</b>	2005 <i>GA</i> <sub>26</sub>		9 1.8 334°41	3°2/30.8	15	
7 30	23 6.63	- 9 13.4	2.104	2.976	11.9	21.1	7 30	23 7.85	-12 42.7	1.145	2.051	17.1	20.4
8 9	23 1.89	- 9 56.4	2.016	2.959	8.8	20.9	8 9	23 3.92	-13 15.2	1.081	2.040	12.7	20.1
8 19	22 55.34	-10 48.3	1.952	2.941	5.2	20.6	8 19	22 57.05	-13 56.5	1.036	2.030	7.6	19.8
8 29	22 47.53	-11 44.4	1.915	2.923	1.7	20.4	8 29	22 48.11	-14 38.5	1.014	2.020	3.4	19.5
9 8	22 39.24	-12 38.9	1.906	2.904	3.3	20.4	9 8	22 38.49	-15 12.2	1.014	2.011	5.9	19.6
9 18	22 31.33	-13 26.2	1.925	2.886	7.2	20.7	9 18	22 29.75	-15 30.1	1.038	2.003	11.1	19.9
9 28	22 24.66	-14 2.0	1.970	2.867	10.8	20.8	9 28	22 23.31	-15 27.8	1.082	1.996	16.0	20.1
10 8	22 19.90	-14 23.6	2.038	2.847	14.0	21.0	10 8	22 20.05	-15 4.7	1.144	1.990	20.3	20.4
<b>339494</b>	2005 <i>GR</i> <sub>34</sub>		9 1.8 207°54	2°0/30.3	18		<b>57094</b>	2001 <i>OA</i> <sub>48</sub>		9 1.8 313°14	3°3/ 4.5	18	

EPHEMERIDES

9 1.8

9 1.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>313688</b>	2003 SY <sub>345</sub>		9 1.8 140°26	0°8/ 1.2 17			<b>42649</b>	1998 FM <sub>76</sub>		9 1.8 140°77	2°8/30.4 18		
7 30	23 13.60	- 8 48.4	1.543	2.418	15.3	21.1	7 30	23 10.95	-12 7.7	1.638	2.521	14.2	19.0
8 9	23 7.34	- 9 4.5	1.482	2.424	11.3	20.9	8 9	23 5.29	-13 7.4	1.582	2.530	10.3	18.8
8 19	22 58.69	- 9 29.9	1.442	2.430	6.7	20.6	8 19	22 57.44	-14 14.2	1.548	2.538	6.1	18.5
8 29	22 48.50	- 9 59.4	1.428	2.436	1.9	20.3	8 29	22 48.18	-15 20.7	1.540	2.545	2.9	18.4
9 8	22 37.94	-10 26.9	1.440	2.441	3.5	20.5	9 8	22 38.59	-16 19.0	1.560	2.552	5.0	18.5
9 18	22 28.24	-10 47.3	1.479	2.446	8.3	20.8	9 18	22 29.79	-17 2.9	1.606	2.559	9.0	18.8
9 28	22 20.49	-10 56.7	1.543	2.450	12.5	21.0	9 28	22 22.80	-17 28.7	1.676	2.565	12.8	19.0
10 8	22 15.38	-10 53.1	1.627	2.454	16.1	21.3	10 8	22 18.24	-17 35.5	1.767	2.571	16.0	19.3
<b>178254</b>	2007 VH <sub>83</sub>		9 1.8 302°12	2°0/ 3.6 18			<b>258649</b>	2002 EC <sub>58</sub>		9 1.8 194°18	1°8/ 3.3 17		
7 30	23 6.45	- 1 1.5	1.874	2.728	14.0	20.3	7 30	23 9.24	- 0 26.5	1.614	2.469	15.8	21.7
8 9	23 1.88	- 1 6.7	1.794	2.720	10.7	20.1	8 9	23 4.19	- 0 57.4	1.540	2.468	12.0	21.4
8 19	22 55.39	- 1 26.3	1.735	2.712	7.0	19.9	8 19	22 56.89	- 1 46.8	1.487	2.466	7.7	21.2
8 29	22 47.59	- 1 57.7	1.701	2.704	3.2	19.6	8 29	22 48.05	- 2 51.0	1.460	2.464	3.2	20.9
9 8	22 39.34	- 2 36.9	1.694	2.696	2.8	19.6	9 8	22 38.72	- 4 3.3	1.458	2.461	2.9	20.9
9 18	22 31.56	- 3 18.6	1.715	2.689	6.6	19.8	9 18	22 30.01	- 5 16.0	1.484	2.458	7.4	21.1
9 28	22 25.18	- 3 57.4	1.760	2.682	10.4	20.0	9 28	22 22.99	- 6 21.3	1.535	2.455	11.8	21.4
10 8	22 20.86	- 4 28.5	1.829	2.674	13.8	20.2	10 8	22 18.39	- 7 13.6	1.608	2.450	15.6	21.6
<b>308676</b>	2006 DQ <sub>29</sub>		9 1.8 290°17	3°0/30.5 17			<b>401180</b>	2011 WF <sub>99</sub>		9 1.8 109°75	7°6/10.6 18		
7 30	23 7.65	-10 22.1	1.242	2.141	16.6	20.9	7 30	23 5.61	+17 4.9	2.210	2.957	15.5	20.7
8 9	23 3.64	-11 30.9	1.174	2.130	12.2	20.6	8 9	23 1.06	+17 31.9	2.130	2.961	13.3	20.6
8 19	22 56.85	-12 54.0	1.126	2.119	7.3	20.3	8 19	22 54.82	+17 36.3	2.070	2.964	11.0	20.4
8 29	22 48.06	-14 22.0	1.102	2.109	3.1	20.0	8 29	22 47.45	+17 16.7	2.032	2.967	8.9	20.3
9 8	22 38.57	-15 43.6	1.103	2.098	5.8	20.2	9 8	22 39.69	+16 34.5	2.018	2.970	7.7	20.2
9 18	22 29.83	-16 48.5	1.127	2.088	11.0	20.4	9 18	22 32.38	+15 33.3	2.030	2.974	8.1	20.3
9 28	22 23.21	-17 30.0	1.173	2.078	15.8	20.7	9 28	22 26.29	+14 19.4	2.069	2.977	9.8	20.4
10 8	22 19.60	-17 45.7	1.237	2.068	20.0	20.9	10 8	22 22.03	+13 0.3	2.131	2.980	12.0	20.5
<b>7574</b>	1989 WO <sub>1</sub>		9 1.8 301°55	5°0/27.0 18			<b>397665</b>	2008 AF <sub>33</sub>		9 1.8 201°00	6°0/26.9 16		
7 30	23 5.52	-22 29.6	2.374	3.260	10.2	16.9	7 30	23 7.84	-11 17.3	1.196	2.098	16.9	20.2
8 9	23 0.94	-23 25.6	2.301	3.244	7.8	16.7	8 9	23 3.91	-14 26.3	1.138	2.097	12.2	19.9
8 19	22 54.71	-24 20.2	2.253	3.229	5.7	16.6	8 19	22 57.08	-17 54.9	1.103	2.095	7.7	19.7
8 29	22 47.38	-25 7.2	2.231	3.213	5.0	16.5	8 29	22 48.17	-21 24.1	1.095	2.092	6.1	19.6
9 8	22 39.70	-25 41.5	2.236	3.197	6.5	16.6	9 8	22 38.51	-24 32.9	1.114	2.089	9.5	19.8
9 18	22 32.45	-25 59.4	2.268	3.182	8.9	16.7	9 18	22 29.64	-27 5.0	1.157	2.086	14.2	20.0
9 28	22 26.39	-25 59.2	2.324	3.167	11.5	16.8	9 28	22 22.99	-28 52.5	1.222	2.082	18.6	20.3
10 8	22 22.11	-25 41.2	2.401	3.151	13.8	17.0	10 8	22 19.50	-29 56.0	1.304	2.077	22.2	20.5
<b>382556</b>	2001 VF <sub>124</sub>		9 1.8 304°43	2°6/30.9 18			<b>15264</b>	Delbrück		9 1.8 246°63	0°0/ 1.8 18		
7 30	23 7.36	-11 15.1	1.439	2.333	15.1	21.0	7 30	23 9.44	- 5 43.1	1.750	2.617	14.2	19.2
8 9	23 3.23	-11 58.3	1.357	2.311	11.2	20.7	8 9	23 4.27	- 6 7.2	1.669	2.606	10.6	19.0
8 19	22 56.55	-12 52.1	1.297	2.288	6.7	20.4	8 19	22 56.93	- 6 43.6	1.609	2.595	6.4	18.7
8 29	22 47.99	-13 49.7	1.260	2.266	2.7	20.1	8 29	22 48.08	- 7 28.1	1.576	2.584	1.9	18.4
9 8	22 38.66	-14 42.7	1.248	2.245	5.1	20.2	9 8	22 38.69	- 8 15.0	1.570	2.572	2.9	18.4
9 18	22 29.87	-15 23.2	1.261	2.223	9.9	20.4	9 18	22 29.81	- 8 58.1	1.590	2.560	7.5	18.7
9 28	22 22.90	-15 45.5	1.297	2.202	14.6	20.6	9 28	22 22.49	- 9 32.2	1.636	2.547	11.7	18.9
10 8	22 18.65	-15 47.5	1.352	2.182	18.7	20.8	10 8	22 17.48	- 9 53.6	1.704	2.535	15.4	19.1
<b>414760</b>	2010 JM <sub>47</sub>		9 1.8 70°11	1°7/ 3.2 17			<b>380198</b>	2000 YZ <sub>27</sub>		9 1.9 181°40	9°2/19.1 18		
7 30	23 8.74	- 0 2.7	1.167	2.042	19.2	20.7	7 30	23 17.71	-44 14.0	2.939	3.754	10.4	22.4
8 9	23 4.12	- 0 50.9	1.122	2.060	14.5	20.4	8 9	23 9.82	-45 33.1	2.905	3.756	9.6	22.3
8 19	22 56.88	- 2 2.8	1.095	2.079	9.1	20.2	8 19	22 59.96	-46 37.1	2.895	3.757	9.2	22.3
8 29	22 48.00	- 3 31.8	1.091	2.097	3.5	19.9	8 29	22 48.89	-47 19.7	2.910	3.757	9.6	22.3
9 8	22 38.83	- 5 7.0	1.112	2.115	3.3	20.0	9 8	22 37.56	-47 37.1	2.950	3.756	10.4	22.4
9 18	22 30.76	- 6 37.4	1.157	2.134	8.6	20.4	9 18	22 26.97	-47 28.7	3.011	3.754	11.6	22.5
9 28	22 24.93	- 7 53.3	1.225	2.152	13.5	20.7	9 28	22 18.02	-46 55.9	3.093	3.751	12.7	22.6
10 8	22 21.98	- 8 49.2	1.314	2.171	17.5	21.0	10 8	22 11.30	-46 2.8	3.191	3.747	13.8	22.7
<b>393723</b>	2004 XY <sub>7</sub>		9 1.8 268°16	1°4/ 3.1 18			<b>230389</b>	2002 GR <sub>126</sub>		9 1.9 181°20	1°4/ 3.3 18		
7 30	23 7.18	- 1 37.5	1.934	2.786	13.6	21.3	7 30	23 8.17	- 1 7.8	2.335	3.174	12.1	22.1
8 9	23 2.50	- 2 1.0	1.838	2.766	10.4	21.1	8 9	23 2.76	- 1 32.7	2.256	3.175	9.2	21.9
8 19	22 55.85	- 2 39.5	1.766	2.745	6.7	20.8	8 19	22 55.77	- 2 9.9	2.201	3.176	5.9	21.7
8 29	22 47.76	- 3 30.3	1.719	2.723	2.7	20.5	8 29	22 47.73	- 2 56.6	2.172	3.176	2.4	21.5
9 8	22 39.07	- 4 28.4	1.699	2.702	2.6	20.5	9 8	22 39.36	- 3 48.6	2.173	3.175	2.2	21.4
9 18	22 30.73	- 5 27.8	1.707	2.680	6.8	20.7	9 18	22 31.43	- 4 41.1	2.203	3.174	5.6	21.7
9 28	22 23.71	- 6 22.2	1.741	2.657	10.8	20.9	9 28	22 24.68	- 5 29.4	2.261	3.172	8.9	21.9
10 8	22 18.74	- 7 6.6	1.798	2.635	14.4	21.1	10 8	22 19.65	- 6 9.5	2.343	3.169	11.8	22.1
<b>67695</b>	2000 SH <sub>336</sub>		9 1.8 254°58	0°6/ 2.3 18			<b>216650</b>	2003 TE <sub>11</sub>		9 1.9 320°67	6°8/27.9 18		
7 30	23 10.51	- 4 51.7	1.464	2.337	16.1	19.8	7 30	23 7.39	-18 44.2	1.165	2.078	16.4	19.5
8 9	23 5.37	- 5 6.9	1.389	2.329	12.1	19.6	8 9	23 3.72	-19 59.9	1.101	2.062	12.4	19.2
8 19	22 57.71	- 5 36.6	1.336	2.322	7.5	19.3	8 19	22 57.03	-21 19.7	1.058	2.046	8.5	19.0
8 29	22 48.29	- 6 16.7	1.306	2.314	2.3	19.0	8 29	22 48.18	-22 31.8	1.036	2.031	6.8	18.8
9 8	22 38.26	- 7 0.8	1.303	2.306	3.1	19.0	9 8	22 38.58	-23 24.2	1.037	2.017	9.3	18.9
9 18	22 28.90	- 7 42.1	1.325	2.298	8.3	19.3	9 18	22 29.82	-23 48.7	1.061	2.004	13.7	19.1
9 28	22 21.42	- 8 14.4	1.371	2.289	13.0	19.5	9 28	22 23.39	-23 42.1	1.103	1.991	18.1	19.3
10 8	22 16.64	- 8 33.5	1.438	2.281	17.0	19.8	10 8	22 20.20	-23 6.4	1.163	1.979	21.9	19.6
<b>98825</b>	Maryellen		9 1.8 250°69	2°6/30.8 18			<b>94682</b>	2001 XM <sub>24</sub>		9 1.9 341°62	7°6/28.1 18		
7 30	23 13.17	-14 37.5	1.965	2.839	12.5	19							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>137966</b>	2000 CZ <sub>24</sub>		9 1.9 313°96	3°9/ 4.3	18 R		<b>91682</b>	1999 TV <sub>123</sub>		9 1.9 324°84	5°1/28.2	18	
7 30	23 6.41	+ 0 51.4	1.269	2.139	18.3	18.4	7 30	23 9.73	-21 59.3	2.045	2.930	11.7	19.2
8 9	23 2.88	+ 1 9.8	1.181	2.114	14.5	18.1	8 9	23 4.16	-22 37.2	1.982	2.925	8.8	19.0
8 19	22 56.56	+ 1 7.7	1.112	2.089	9.9	17.8	8 19	22 56.70	-23 12.3	1.943	2.921	6.2	18.9
8 29	22 48.09	+ 0 45.5	1.064	2.064	5.4	17.4	8 29	22 48.02	-23 38.7	1.929	2.917	5.1	18.8
9 8	22 38.63	+ 0 6.9	1.040	2.041	4.5	17.3	9 8	22 39.04	-23 51.1	1.943	2.913	6.6	18.9
9 18	22 29.60	- 0 41.3	1.039	2.017	9.0	17.5	9 18	22 30.71	-23 46.5	1.983	2.909	9.3	19.0
9 28	22 22.49	- 1 30.3	1.060	1.995	14.2	17.7	9 28	22 23.90	-23 24.1	2.048	2.906	12.2	19.2
10 8	22 18.36	- 2 11.8	1.100	1.974	18.9	17.9	10 8	22 19.19	-22 45.2	2.133	2.902	14.7	19.4
<b>274933</b>	2009 SP <sub>202</sub>		9 1.9 288°22	0°5/ 2.4	18		<b>367061</b>	2006 KM <sub>69</sub>		9 1.9 2°52	4°5/27.4	18	
7 30	23 3.44	- 3 42.6	2.302	3.160	11.6	20.9	7 30	23 4.48	-20 34.1	2.367	3.254	10.2	20.6
8 9	22 59.42	- 4 17.9	2.212	3.144	8.7	20.7	8 9	23 0.10	-21 37.9	2.308	3.254	7.6	20.4
8 19	22 53.85	- 5 4.9	2.146	3.129	5.3	20.5	8 19	22 54.19	-22 41.0	2.274	3.254	5.4	20.3
8 29	22 47.21	- 6 0.3	2.107	3.114	1.7	20.2	8 29	22 47.31	-23 37.6	2.267	3.254	4.6	20.2
9 8	22 40.17	- 6 59.3	2.096	3.098	2.2	20.2	9 8	22 40.16	-24 22.2	2.288	3.254	6.0	20.3
9 18	22 33.47	- 7 56.9	2.113	3.083	5.9	20.4	9 18	22 33.49	-24 51.2	2.335	3.255	8.4	20.5
9 28	22 27.83	- 8 48.0	2.157	3.068	9.3	20.6	9 28	22 28.01	-25 2.8	2.407	3.255	10.9	20.7
10 8	22 23.84	- 9 28.8	2.224	3.053	12.3	20.8	10 8	22 24.23	-24 57.1	2.500	3.256	13.2	20.8
<b>366253</b>	2012 YS <sub>2</sub>		9 1.9 249°13	0°9/31.0	17		<b>479588</b>	2014 CL <sub>22</sub>		9 1.9 221°04	1°8/ 3.7	18	
7 30	22 58.17	-11 4.4	4.550	5.416	6.1	20.8	7 30	23 7.77	- 0 14.7	2.124	2.965	13.0	21.6
8 9	22 54.85	-11 39.4	4.471	5.411	4.4	20.7	8 9	23 2.70	- 0 34.6	2.037	2.957	10.0	21.3
8 19	22 50.81	-12 17.3	4.418	5.406	2.6	20.6	8 19	22 55.87	- 1 8.6	1.974	2.948	6.5	21.1
8 29	22 46.30	-12 56.0	4.394	5.401	1.0	20.4	8 29	22 47.81	- 1 54.3	1.937	2.939	2.9	20.9
9 8	22 41.66	-13 33.2	4.400	5.396	1.9	20.5	9 8	22 39.32	- 2 47.4	1.928	2.930	2.5	20.8
9 18	22 37.20	-14 6.6	4.436	5.390	3.7	20.6	9 18	22 31.25	- 3 42.5	1.947	2.920	6.1	21.0
9 28	22 33.25	-14 34.6	4.501	5.385	5.5	20.8	9 28	22 24.41	- 4 34.2	1.993	2.909	9.7	21.3
10 8	22 30.09	-14 55.7	4.590	5.380	7.1	20.9	10 8	22 19.46	- 5 17.8	2.063	2.898	12.9	21.4
<b>21183</b>	1994 EO <sub>2</sub>		9 1.9 282°36	9°1/27.5	18		<b>24512</b>	2001 BK <sub>35</sub>		9 1.9 263°78	2°4/30.4	18	
7 30	23 24.95	-29 9.1	1.562	2.433	15.4	17.9	7 30	23 9.17	-15 2.6	2.455	3.327	10.4	18.1
8 9	23 16.55	-29 47.0	1.476	2.403	12.5	17.7	8 9	23 3.55	-15 25.4	2.368	3.310	7.7	17.9
8 19	23 4.72	-30 14.7	1.411	2.372	10.0	17.5	8 19	22 56.29	-15 50.4	2.307	3.294	4.7	17.7
8 29	22 50.39	-30 20.9	1.372	2.341	9.1	17.3	8 29	22 47.92	-16 13.6	2.273	3.276	2.5	17.5
9 8	22 35.11	-29 56.8	1.358	2.309	10.8	17.4	9 8	22 39.17	-16 30.7	2.269	3.259	3.9	17.6
9 18	22 20.70	-28 59.5	1.369	2.277	14.1	17.5	9 18	22 30.82	-16 38.7	2.292	3.241	7.0	17.8
9 28	22 8.81	-27 31.3	1.404	2.244	17.7	17.6	9 28	22 23.62	-16 35.2	2.343	3.223	10.0	17.9
10 8	22 0.49	-25 39.3	1.458	2.211	21.1	17.8	10 8	22 18.17	-16 19.7	2.417	3.205	12.7	18.1
<b>75873</b>	2000 CQ <sub>24</sub>		9 1.9 320°18	0°4/ 1.5	18		<b>241315</b>	2007 VJ <sub>35</sub>		9 1.9 56°26	0°5/ 2.4	18	
7 30	23 3.38	- 5 38.3	1.468	2.355	15.3	18.6	7 30	23 6.82	- 3 59.4	1.654	2.524	14.7	20.9
8 9	23 0.21	- 6 19.8	1.384	2.332	11.5	18.3	8 9	23 2.19	- 4 30.2	1.599	2.537	11.0	20.7
8 19	22 54.72	- 7 17.9	1.320	2.310	6.9	18.0	8 19	22 55.57	- 5 14.8	1.565	2.550	6.7	20.5
8 29	22 47.53	- 8 27.6	1.280	2.288	1.9	17.7	8 29	22 47.72	- 6 8.2	1.557	2.564	2.1	20.3
9 8	22 39.64	- 9 40.8	1.265	2.267	3.5	17.7	9 8	22 39.61	- 7 4.2	1.575	2.578	2.7	20.3
9 18	22 32.21	-10 48.8	1.275	2.247	8.6	18.0	9 18	22 32.23	- 7 56.3	1.619	2.592	7.1	20.6
9 28	22 26.43	-11 43.9	1.308	2.227	13.4	18.2	9 28	22 26.47	- 8 38.9	1.689	2.606	11.0	20.9
10 8	22 23.16	-12 20.6	1.361	2.209	17.6	18.4	10 8	22 22.91	- 9 8.4	1.781	2.621	14.4	21.2
<b>211480</b>	2003 FC <sub>7</sub>		9 1.9 170°17	0°2/ 2.1	18		<b>470256</b>	2006 YP <sub>42</sub>		9 1.9 235°80	12°0/10.5	18	
7 30	23 5.39	- 4 56.6	2.132	2.994	12.2	21.0	7 30	23 14.82	+20 22.7	1.785	2.512	19.3	20.7
8 9	23 0.85	- 5 29.1	2.060	2.995	9.1	20.8	8 9	23 8.59	+22 6.3	1.702	2.506	17.2	20.6
8 19	22 54.68	- 6 12.3	2.010	2.995	5.5	20.5	8 19	22 59.77	+23 25.8	1.636	2.501	15.0	20.4
8 29	22 47.44	- 7 2.5	1.988	2.995	1.6	20.3	8 29	22 49.02	+24 14.7	1.592	2.495	13.1	20.3
9 8	22 39.88	- 7 54.7	1.993	2.996	2.4	20.3	9 8	22 37.40	+24 30.0	1.571	2.489	12.0	20.2
9 18	22 32.80	- 8 43.6	2.026	2.996	6.2	20.6	9 18	22 26.16	+24 12.6	1.572	2.482	12.4	20.2
9 28	22 26.95	- 9 24.7	2.086	2.996	9.6	20.8	9 28	22 16.61	+23 28.3	1.597	2.476	13.9	20.3
10 8	22 22.89	- 9 54.8	2.169	2.996	12.6	21.0	10 8	22 9.70	+22 26.5	1.643	2.469	16.1	20.4
<b>295996</b>	2008 YQ <sub>94</sub>		9 1.9 66°59	1°4/31.6	15		<b>319280</b>	2006 BW <sub>66</sub>		9 1.9 226°75	0°2/ 2.1	18	
7 30	23 7.43	- 8 51.1	1.712	2.592	13.8	20.6	7 30	23 6.00	- 5 39.1	2.570	3.425	10.6	21.5
8 9	23 2.52	- 9 40.5	1.664	2.610	10.0	20.4	8 9	23 1.10	- 5 57.2	2.487	3.418	7.9	21.3
8 19	22 55.70	-10 38.8	1.639	2.629	5.8	20.2	8 19	22 54.77	- 6 23.4	2.429	3.412	4.8	21.1
8 29	22 47.72	-11 39.9	1.639	2.647	1.8	20.0	8 29	22 47.50	- 6 54.9	2.398	3.405	1.4	20.9
9 8	22 39.54	-12 36.9	1.667	2.665	3.6	20.2	9 8	22 39.92	- 7 28.0	2.396	3.398	2.0	20.9
9 18	22 32.12	-13 23.8	1.721	2.684	7.7	20.5	9 18	22 32.71	- 7 59.3	2.423	3.391	5.4	21.1
9 28	22 26.33	-13 56.7	1.800	2.702	11.3	20.7	9 28	22 26.52	- 8 25.1	2.477	3.384	8.5	21.3
10 8	22 22.70	-14 13.6	1.901	2.720	14.4	21.0	10 8	22 21.87	- 8 42.9	2.556	3.376	11.2	21.5
<b>133623</b>	2003 UA <sub>122</sub>		9 1.9 6°29	5°4/27.3	18		<b>232486</b>	2003 NN		9 1.9 349°90	0°0/ 1.8	18 R	
7 30	23 2.57	-15 2.4	1.445	2.351	14.3	18.5	7 30	22 59.47	- 3 33.3	1.192	2.089	17.3	18.7
8 9	22 59.49	-17 6.7	1.392	2.352	10.4	18.2	8 9	22 57.56	- 4 34.4	1.126	2.079	12.9	18.4
8 19	22 54.17	-19 18.7	1.363	2.352	6.8	18.0	8 19	22 53.21	- 5 58.1	1.080	2.071	7.8	18.1
8 29	22 47.34	-21 26.3	1.358	2.354	5.4	18.0	8 29	22 47.14	- 7 37.5	1.056	2.064	2.2	17.7
9 8	22 40.07	-23 17.4	1.380	2.356	7.9	18.1	9 8	22 40.49	- 9 21.2	1.055	2.058	3.6	17.8
9 18	22 33.51	-24 42.9	1.425	2.359	11.6	18.3	9 18	22 34.54	-10 57.2	1.079	2.054	9.2	18.1
9 28	22 28.70	-25 38.1	1.493	2.362	15.3	18.6	9 28	22 30.48	-12 15.3	1.124	2.052	14.3	18.4
10 8	22 26.34	-26 3.0	1.579	2.366	18.3	18.8	10 8	22 29.11	-13 9.2	1.188	2.051	18.6	18.7
<b>218208</b>	2002 TD <sub>253</sub>		9 1.9 350°54	0°4/ 2.2	18		<b>283344</b>	1999 UE <sub>30</sub>		9 1.9 274°45	2°0/ 3.8	18	
7 30	23 2.76	- 5 11.7	1.023	1.928									



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>436795</b>	2012 <i>QW</i> <sub>13</sub>	9 1.9 309 <sup>o</sup> .12	7.1/25.9	18			<b>237543</b>	2000 <i>UX</i> <sub>29</sub>	9 1.9 258 <sup>o</sup> .69	3.7/29.6	18		
7 30	23 5.20	-20 32.7	1.503	2.408	13.9	20.5	7 30	23 12.32	-16 57.0	2.016	2.894	12.1	20.9
8 9	23 1.63	-22 20.8	1.435	2.390	10.6	20.2	8 9	23 6.31	-17 36.1	1.929	2.873	9.0	20.6
8 19	22 55.61	-24 12.5	1.390	2.371	7.8	20.0	8 19	22 58.17	-18 17.5	1.866	2.851	5.8	20.4
8 29	22 47.83	-25 56.0	1.369	2.353	7.2	20.0	8 29	22 48.54	-18 55.2	1.830	2.829	3.7	20.2
9 8	22 39.38	-27 20.1	1.373	2.335	9.5	20.1	9 8	22 38.34	-19 23.2	1.822	2.806	5.4	20.3
9 18	22 31.52	-28 16.7	1.400	2.318	13.0	20.2	9 18	22 28.60	-19 36.9	1.841	2.783	8.9	20.4
9 28	22 25.46	-28 42.0	1.448	2.301	16.6	20.4	9 28	22 20.32	-19 33.8	1.886	2.759	12.4	20.6
10 8	22 22.04	-28 37.1	1.514	2.284	19.7	20.6	10 8	22 14.25	-19 14.0	1.952	2.735	15.4	20.8
<b>365377</b>	2009 <i>UM</i> <sub>47</sub>	9 1.9 5 <sup>o</sup> .14	9.7/14.5	16			<b>245264</b>	2005 <i>AC</i> <sub>43</sub>	9 1.9 286 <sup>o</sup> .30	3.7/29.0	18		
7 30	23 2.22	+23 35.8	2.095	2.804	17.2	20.5	7 30	23 5.19	-13 3.5	1.729	2.620	13.1	19.9
8 9	22 58.76	+24 3.1	2.014	2.804	15.4	20.3	8 9	23 1.29	-14 33.0	1.650	2.602	9.6	19.7
8 19	22 53.57	+24 2.9	1.950	2.805	13.3	20.2	8 19	22 55.27	-16 12.5	1.595	2.585	5.9	19.4
8 29	22 47.20	+23 32.7	1.906	2.806	11.4	20.0	8 29	22 47.74	-17 53.6	1.566	2.567	3.7	19.3
9 8	22 40.42	+22 33.2	1.884	2.808	10.0	20.0	9 8	22 39.61	-19 26.6	1.564	2.549	6.0	19.4
9 18	22 34.09	+21 8.3	1.886	2.810	9.8	20.0	9 18	22 31.94	-20 43.2	1.588	2.532	9.8	19.6
9 28	22 29.03	+19 25.0	1.912	2.813	10.9	20.0	9 28	22 25.77	-21 37.7	1.636	2.514	13.6	19.8
10 8	22 25.87	+17 32.5	1.962	2.816	12.7	20.2	10 8	22 21.85	-22 8.1	1.703	2.497	16.9	19.9
<b>431269</b>	2006 <i>UQ</i> <sub>89</sub>	9 1.9 303 <sup>o</sup> .97	6.6/28.4	18			<b>357902</b>	2005 <i>VJ</i> <sub>56</sub>	9 1.9 46 <sup>o</sup> .36	2.5/30.5	18		
7 30	23 11.81	-20 32.4	1.325	2.226	15.7	21.0	7 30	23 6.52	-13 6.0	1.976	2.859	12.1	21.2
8 9	23 6.88	-21 25.1	1.250	2.203	12.0	20.7	8 9	23 1.78	-13 48.7	1.917	2.865	8.8	21.0
8 19	22 58.95	-22 18.2	1.197	2.181	8.3	20.5	8 19	22 55.28	-14 36.0	1.882	2.871	5.3	20.8
8 29	22 48.81	-23 1.8	1.166	2.159	6.7	20.3	8 29	22 47.67	-15 22.5	1.873	2.877	2.6	20.6
9 8	22 37.84	-23 25.9	1.159	2.137	8.8	20.4	9 8	22 39.81	-16 2.5	1.891	2.884	4.3	20.8
9 18	22 27.60	-23 24.3	1.175	2.115	13.0	20.5	9 18	22 32.54	-16 31.5	1.937	2.890	7.7	21.0
9 28	22 19.59	-22 55.2	1.213	2.094	17.2	20.7	9 28	22 26.69	-16 46.5	2.007	2.897	11.0	21.2
10 8	22 14.77	-22 0.9	1.268	2.073	21.0	20.9	10 8	22 22.78	-16 46.6	2.100	2.904	13.8	21.4
<b>369462</b>	2010 <i>RY</i> <sub>101</sub>	9 1.9 283 <sup>o</sup> .32	3.2/4.5	17			<b>426598</b>	2013 <i>SO</i> <sub>36</sub>	9 1.9 229 <sup>o</sup> .85	2.2/4.0	18		
7 30	23 6.82	+ 2 28.7	1.403	2.260	17.6	21.3	7 30	23 7.38	+ 1 53.6	1.793	2.636	15.0	21.8
8 9	23 2.76	+ 2 8.3	1.328	2.254	13.8	21.1	8 9	23 2.76	+ 1 13.4	1.707	2.626	11.6	21.6
8 19	22 56.25	+ 1 24.2	1.273	2.247	9.3	20.8	8 19	22 56.09	+ 0 12.9	1.643	2.616	7.7	21.3
8 29	22 48.01	+ 0 19.0	1.241	2.241	4.8	20.5	8 29	22 47.96	- 1 4.7	1.604	2.605	3.6	21.0
9 8	22 39.15	- 1 0.5	1.233	2.235	3.7	20.5	9 8	22 39.28	- 2 33.0	1.592	2.594	2.9	21.0
9 18	22 30.91	- 2 25.3	1.251	2.228	8.0	20.7	9 18	22 31.06	- 4 4.2	1.608	2.582	6.9	21.2
9 28	22 24.50	- 3 45.5	1.292	2.222	12.7	20.9	9 28	22 24.29	- 5 29.9	1.650	2.570	11.1	21.4
10 8	22 20.74	- 4 53.1	1.355	2.216	16.8	21.2	10 8	22 19.69	- 6 43.4	1.715	2.557	14.8	21.6
<b>261362</b>	2005 <i>UQ</i> <sub>319</sub>	9 1.9 124 <sup>o</sup> .18	1.7/3.9	18			<b>250768</b>	2005 <i>SU</i> <sub>275</sub>	9 1.9 68 <sup>o</sup> .84	0.6/2.5	18		
7 30	23 5.67	- 0 6.2	2.445	3.282	11.6	21.0	7 30	23 6.14	- 4 15.1	2.035	2.896	12.7	21.0
8 9	23 0.84	- 0 25.5	2.375	3.292	8.9	20.9	8 9	23 1.44	- 4 38.4	1.970	2.904	9.5	20.8
8 19	22 54.59	- 0 56.6	2.329	3.301	5.8	20.7	8 19	22 55.06	- 5 12.8	1.928	2.911	5.8	20.6
8 29	22 47.46	- 1 37.2	2.309	3.311	2.7	20.5	8 29	22 47.62	- 5 54.6	1.912	2.919	1.9	20.4
9 8	22 40.09	- 2 23.5	2.318	3.320	2.2	20.5	9 8	22 39.90	- 6 39.1	1.924	2.927	2.3	20.4
9 18	22 33.18	- 3 11.1	2.356	3.329	5.2	20.7	9 18	22 32.74	- 7 21.3	1.963	2.935	6.2	20.7
9 28	22 27.35	- 3 55.7	2.422	3.337	8.2	20.9	9 28	22 26.89	- 7 56.7	2.029	2.942	9.7	20.9
10 8	22 23.11	- 4 33.7	2.512	3.346	10.9	21.1	10 8	22 22.91	- 8 22.1	2.118	2.950	12.7	21.1
<b>229932</b>	1997 <i>TY</i> <sub>1</sub>	9 1.9 281 <sup>o</sup> .17	1.7/3.3	18			<b>345429</b>	2006 <i>DY</i> <sub>86</sub>	9 1.9 184 <sup>o</sup> .25	0.4/1.5	18		
7 30	23 7.67	- 1 33.3	1.654	2.514	15.2	20.2	7 30	23 6.92	- 5 42.6	1.937	2.803	13.0	21.6
8 9	23 3.19	- 1 49.1	1.565	2.495	11.7	20.0	8 9	23 2.17	- 6 31.3	1.865	2.803	9.6	21.4
8 19	22 56.46	- 2 21.8	1.497	2.477	7.5	19.7	8 19	22 55.59	- 7 32.0	1.817	2.803	5.7	21.2
8 29	22 48.08	- 3 8.4	1.453	2.458	3.1	19.4	8 29	22 47.79	- 8 39.7	1.795	2.803	1.6	20.9
9 8	22 39.02	- 4 3.6	1.436	2.438	2.9	19.3	9 8	22 39.61	- 9 47.9	1.801	2.802	2.8	21.0
9 18	22 30.38	- 5 0.7	1.445	2.419	7.5	19.6	9 18	22 31.97	-10 50.4	1.834	2.801	6.9	21.3
9 28	22 23.29	- 5 52.6	1.478	2.400	12.0	19.8	9 28	22 25.70	-11 41.9	1.894	2.800	10.7	21.5
10 8	22 18.58	- 6 33.7	1.534	2.381	16.0	20.0	10 8	22 21.44	-12 18.8	1.977	2.798	13.9	21.7
<b>402772</b>	2007 <i>BL</i> <sub>78</sub>	9 1.9 97 <sup>o</sup> .17	2.6/4.6	18			<b>35052</b>	1982 <i>JY</i> <sub>1</sub>	9 1.9 86 <sup>o</sup> .21	2.8/29.9	18		
7 30	23 9.07	+ 1 27.2	2.446	3.270	12.0	21.5	7 30	23 6.18	-13 51.2	2.124	3.006	11.4	19.2
8 9	23 3.26	+ 1 37.8	2.382	3.288	9.3	21.4	8 9	23 1.43	-14 44.4	2.066	3.014	8.3	19.0
8 19	22 56.00	+ 1 36.6	2.342	3.306	6.3	21.2	8 19	22 55.04	-15 41.5	2.033	3.022	5.0	18.9
8 29	22 47.85	+ 1 24.9	2.329	3.325	3.5	21.1	8 29	22 47.62	-16 37.0	2.027	3.030	2.8	18.7
9 8	22 39.51	+ 1 5.5	2.345	3.342	2.9	21.1	9 8	22 39.96	-17 25.1	2.049	3.038	4.4	18.9
9 18	22 31.70	+ 0 41.7	2.389	3.360	5.3	21.3	9 18	22 32.86	-18 1.4	2.098	3.046	7.6	19.1
9 28	22 25.07	+ 0 17.2	2.462	3.377	8.1	21.5	9 28	22 27.08	-18 23.1	2.172	3.054	10.6	19.3
10 8	22 20.11	- 0 4.5	2.559	3.394	10.7	21.7	10 8	22 23.13	-18 29.3	2.269	3.062	13.3	19.5
<b>99113</b>	2001 <i>FR</i> <sub>62</sub>	9 1.9 263 <sup>o</sup> .19	1.9/30.8	18			<b>283646</b>	2002 <i>HA</i> <sub>6</sub>	9 1.9 160 <sup>o</sup> .03	2.3/4.4	18		
7 30	23 5.19	-11 44.2	2.299	3.175	10.9	19.5	7 30	23 7.13	+ 2 2.8	2.135	2.967	13.3	22.0
8 9	23 0.65	-12 26.9	2.229	3.174	7.9	19.3	8 9	23 2.15	+ 1 36.7	2.060	2.972	10.3	21.8
8 19	22 54.56	-13 15.0	2.183	3.172	4.7	19.1	8 19	22 55.50	+ 0 54.9	2.008	2.977	6.9	21.6
8 29	22 47.47	-14 3.9	2.165	3.170	2.0	18.9	8 29	22 47.76	- 0 0.1	1.982	2.981	3.5	21.4
9 8	22 40.08	-14 48.5	2.175	3.169	3.5	19.0	9 8	22 39.71	- 1 3.5	1.985	2.985	2.8	21.4
9 18	22 33.15	-15 24.6	2.212	3.167	6.8	19.2	9 18	22 32.14	- 2 9.6	2.015	2.989	5.8	21.6
9 28	22 27.39	-15 48.8	2.276	3.165	9.9	19.4	9 28	22 25.83	- 3 12.7	2.073	2.992	9.2	21.8
10 8	22 23.32	-15 59.8	2.362	3.164	12.5	19.6	10 8	22 21.35	- 4 7.7	2.156	2.994	12.3	22.0
<b>142640</b>	2002 <i>TK</i> <sub>187</sub>	9 1.9 302 <sup>o</sup> .22	0.3/2.1										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>385533</b>	2004 <i>QD</i> <sub>29</sub>	9 1.9 71°40' 0°2/29.1 13 C											
7 30	22 47.06	-17 28.7	41.409	42.284	0.7	23.3	7 30	23 5.09	-10 30.6	1.740	2.626	13.3	20.6
8 9	22 46.41	-17 34.4	41.343	42.287	0.5	23.3	8 9	23 1.14	-11 56.1	1.666	2.617	9.7	20.3
8 19	22 45.69	-17 40.1	41.305	42.290	0.3	23.3	8 19	22 55.15	-13 32.9	1.616	2.607	5.8	20.1
8 29	22 44.94	-17 45.6	41.296	42.293	0.2	23.3	8 29	22 47.74	-15 13.3	1.592	2.597	2.8	19.9
9 8	22 44.18	-17 50.8	41.316	42.297	0.3	23.3	9 8	22 39.83	-16 48.0	1.595	2.587	5.0	20.0
9 18	22 43.43	-17 55.4	41.364	42.300	0.5	23.3	9 18	22 32.42	-18 8.8	1.625	2.577	9.0	20.2
9 28	22 42.73	-17 59.4	41.440	42.303	0.7	23.3	9 28	22 26.49	-19 9.7	1.679	2.567	12.8	20.4
10 8	22 42.10	-18 2.6	41.541	42.306	0.9	23.4	10 8	22 22.75	-19 48.1	1.754	2.557	16.1	20.6
<b>294516</b>	2007 <i>XS</i> <sub>15</sub>	9 1.9 336°38' 4°9/29.4 18											
7 30	23 10.02	-15 50.6	1.283	2.185	16.0	20.7	7 30	22 58.44	-1 50.5	4.450	5.285	6.8	20.5
8 9	23 5.29	-16 52.4	1.226	2.182	11.8	20.5	8 9	22 55.11	-2 9.7	4.361	5.278	5.2	20.3
8 19	22 57.81	-17 59.4	1.190	2.180	7.5	20.2	8 19	22 51.04	-2 35.0	4.297	5.271	3.3	20.2
8 29	22 48.48	-19 1.8	1.177	2.178	4.9	20.1	8 29	22 46.50	-3 5.0	4.261	5.264	1.4	20.0
9 8	22 38.64	-19 49.7	1.188	2.176	7.2	20.2	9 8	22 41.81	-3 37.7	4.255	5.257	1.3	20.0
9 18	22 29.72	-20 16.4	1.224	2.174	11.5	20.4	9 18	22 37.29	-4 11.1	4.279	5.250	3.1	20.2
9 28	22 23.00	-20 18.7	1.281	2.172	15.7	20.7	9 28	22 33.29	-4 42.9	4.331	5.243	5.0	20.3
10 8	22 19.25	-19 57.5	1.356	2.171	19.4	20.9	10 8	22 30.07	-5 11.2	4.410	5.236	6.7	20.4
<b>447700</b>	2007 <i>DS</i> <sub>59</sub>	9 1.9 239°18' 0°1/ 1.7 18											
7 30	23 7.77	-7 21.7	2.379	3.239	11.2	21.6	7 30	23 18.76	-18 16.4	1.749	2.624	13.8	19.8
8 9	23 2.53	-7 35.0	2.297	3.232	8.3	21.4	8 9	23 11.19	-18 16.5	1.673	2.614	10.3	19.6
8 19	22 55.71	-7 55.6	2.239	3.224	5.0	21.2	8 19	23 1.14	-18 14.7	1.619	2.604	6.6	19.3
8 29	22 47.84	-8 20.4	2.208	3.216	1.4	20.9	8 29	22 49.43	-18 5.7	1.593	2.593	3.8	19.1
9 8	22 39.62	-8 45.8	2.206	3.208	2.3	21.0	9 8	22 37.25	-17 44.9	1.594	2.583	5.4	19.2
9 18	22 31.82	-9 8.0	2.233	3.200	5.9	21.2	9 18	22 25.86	-17 10.0	1.623	2.573	9.2	19.4
9 28	22 25.15	-9 23.8	2.287	3.191	9.2	21.4	9 28	22 16.42	-16 20.9	1.678	2.562	13.1	19.6
10 8	22 20.18	-9 31.0	2.365	3.183	12.0	21.6	10 8	22 9.67	-15 19.3	1.755	2.552	16.4	19.8
<b>509223</b>	2006 <i>SC</i> <sub>315</sub>	9 1.9 318°04' 1°3/ 2.9 17											
7 30	23 3.20	-1 27.8	1.219	2.103	17.9	21.6	7 30	23 7.25	+13 13.0	2.108	2.881	15.3	20.7
8 9	23 0.50	-2 4.4	1.139	2.083	13.7	21.3	8 9	23 2.39	+13 30.9	2.027	2.883	12.9	20.5
8 19	22 55.14	-3 5.4	1.078	2.064	8.7	20.9	8 19	22 55.75	+13 27.2	1.965	2.884	10.2	20.3
8 29	22 47.79	-4 26.5	1.039	2.045	3.2	20.6	8 29	22 47.90	+13 1.0	1.927	2.885	7.8	20.2
9 8	22 39.61	-5 58.9	1.023	2.027	3.3	20.5	9 8	22 39.63	+12 14.4	1.915	2.886	6.6	20.1
9 18	22 31.98	-7 31.3	1.031	2.010	9.1	20.8	9 18	22 31.82	+11 11.8	1.930	2.886	7.5	20.2
9 28	22 26.28	-8 52.3	1.061	1.993	14.6	21.0	9 28	22 25.30	+9 59.6	1.970	2.886	9.8	20.3
10 8	22 23.49	-9 53.7	1.111	1.977	19.3	21.3	10 8	22 20.69	+8 45.3	2.035	2.886	12.4	20.5
<b>16033</b>	1999 <i>FT</i> <sub>32</sub>	9 1.9 353°62' 0°1/ 2.1 18											
7 30	23 4.67	-4 56.0	1.750	2.623	13.9	17.0	7 30	23 6.93	-9 42.2	2.134	3.007	11.8	20.3
8 9	23 0.69	-5 28.0	1.680	2.621	10.3	16.8	8 9	23 2.07	-10 36.0	2.062	3.005	8.6	20.0
8 19	22 54.79	-6 12.9	1.632	2.619	6.3	16.5	8 19	22 55.51	-11 37.7	2.014	3.002	5.0	19.8
8 29	22 47.60	-7 6.5	1.610	2.617	1.8	16.2	8 29	22 47.82	-12 42.3	1.993	2.999	1.8	19.6
9 8	22 40.03	-8 2.4	1.613	2.616	2.7	16.3	9 8	22 39.78	-13 43.6	2.000	2.996	3.5	19.7
9 18	22 33.01	-8 54.5	1.644	2.615	7.1	16.6	9 18	22 32.21	-14 36.3	2.035	2.993	7.1	19.9
9 28	22 27.46	-9 37.2	1.699	2.615	11.0	16.8	9 28	22 25.91	-15 16.1	2.097	2.989	10.5	20.2
10 8	22 23.99	-10 6.6	1.776	2.615	14.5	17.0	10 8	22 21.46	-15 41.0	2.181	2.985	13.4	20.3
<b>212928</b>	2008 <i>AK</i> <sub>106</sub>	9 1.9 190°05' 0°8/31.6 17											
7 30	23 2.34	-10 6.1	3.551	4.413	7.8	22.1	7 30	23 9.36	-12 50.5	2.714	3.578	9.8	22.2
8 9	22 58.09	-10 34.7	3.474	4.412	5.6	22.0	8 9	23 3.57	-13 7.6	2.626	3.565	7.2	22.0
8 19	22 52.86	-11 7.2	3.424	4.410	3.3	21.8	8 19	22 56.30	-13 27.9	2.564	3.551	4.3	21.8
8 29	22 47.01	-11 41.0	3.402	4.409	1.1	21.6	8 29	22 48.04	-13 47.8	2.531	3.537	1.8	21.6
9 8	22 40.98	-12 13.3	3.410	4.407	2.1	21.7	9 8	22 39.45	-14 4.0	2.527	3.522	3.0	21.7
9 18	22 35.22	-12 41.6	3.447	4.406	4.4	21.9	9 18	22 31.21	-14 13.5	2.553	3.507	6.0	21.8
9 28	22 30.17	-13 3.5	3.513	4.404	6.7	22.1	9 28	22 24.02	-14 14.2	2.606	3.492	8.9	22.0
10 8	22 26.20	-13 17.7	3.604	4.402	8.7	22.2	10 8	22 18.40	-14 5.0	2.683	3.476	11.4	22.2
<b>293514</b>	2007 <i>GB</i> <sub>31</sub>	9 1.9 334°04' 1°8/ 3.7 18											
7 30	23 2.89	-0 33.7	1.903	2.760	13.6	19.9	7 30	23 10.59	-7 52.6	1.163	2.056	17.9	19.2
8 9	22 59.31	-0 54.6	1.821	2.750	10.5	19.7	8 9	23 5.91	-7 40.7	1.100	2.051	13.4	18.9
8 19	22 53.96	-1 31.0	1.761	2.739	6.8	19.4	8 19	22 58.30	-7 40.2	1.057	2.047	8.2	18.6
8 29	22 47.38	-2 20.1	1.726	2.730	3.0	19.2	8 29	22 48.68	-7 46.9	1.036	2.044	2.4	18.3
9 8	22 40.37	-3 17.0	1.718	2.721	2.6	19.1	9 8	22 38.46	-7 55.1	1.039	2.042	3.6	18.4
9 18	22 33.80	-4 15.7	1.736	2.712	6.3	19.4	9 18	22 29.18	-7 59.3	1.065	2.041	9.3	18.7
9 28	22 28.50	-5 10.2	1.780	2.704	10.2	19.6	9 28	22 22.22	-7 54.7	1.114	2.041	14.5	19.0
10 8	22 25.12	-5 55.3	1.847	2.697	13.5	19.8	10 8	22 18.42	-7 38.6	1.181	2.041	18.8	19.3
<b>342218</b>	2008 <i>SR</i> <sub>249</sub>	9 1.9 45°86' 3°7/ 4.8 17											
7 30	23 8.35	+2 21.2	1.335	2.193	18.2	20.2	7 30	23 7.83	-4 28.0	1.532	2.406	15.5	20.8
8 9	23 3.65	+2 23.1	1.288	2.212	14.1	20.0	8 9	23 3.48	-4 51.5	1.448	2.388	11.7	20.5
8 19	22 56.60	+2 3.3	1.259	2.232	9.6	19.8	8 19	22 56.74	-5 30.4	1.384	2.370	7.2	20.2
8 29	22 48.10	+1 24.4	1.254	2.252	5.2	19.6	8 29	22 48.26	-6 20.8	1.345	2.352	2.3	19.9
9 8	22 39.36	+0 32.6	1.273	2.273	4.1	19.6	9 8	22 39.07	-7 16.2	1.331	2.334	3.0	19.9
9 18	22 31.56	-0 24.4	1.317	2.294	7.7	19.9	9 18	22 30.37	-8 9.3	1.343	2.317	8.1	20.1
9 28	22 25.75	-1 18.5	1.384	2.316	11.9	20.1	9 28	22 23.35	-8 53.1	1.380	2.299	12.9	20.4
10 8	22 22.55	-2 3.2	1.473	2.337	15.5	20.4	10 8	22 18.87	-9 22.7	1.437	2.281	17.0	20.6
<b>139808</b>	2001 <i>RP</i> <sub>18</sub>	9 1.9 305°17' 1°6/ 2.9 18											
7 30	23 9.39	-3 29.8	1.453	2.324	16.3	19.7	7 30	23 10.56	-16 36.1	1.525	2.418	14.4	20.2
8 9	23 4.69	-3 24.6	1.373	2.311	12.5	19.4	8 9	23 5.34	-17 51.2	1.468	2.419	10.7	20.0
8 19	22 57.47	-3 34.0	1.314	2.297	7.9	19.2	8 19	22 57.71	-19 10.2	1.433	2.420	6.9	19.8
8 29	22 48.43	-3 55.3	1.279	2.284	3.1	18.8	8 29	22 48.49	-20 23.8	1.424	2.421	4.9	19.7
9 8	22 38.71	-4 23.8	1.268	2.272	3.1	18.8	9 8	22 38.83	-21 22.8	1.440	2.421	7.0	19.8</

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>479823</b>	2014 <i>FR</i> <sub>62</sub>	9 1.9 185°09' 5 <sup>3</sup> /26.9 18											
7 30	23 8.36	-21 21.4	2.174	3.059	11.1	21.5	7 30	23 0.35	+ 0 52.4	1.018	1.911	20.0	19.4
8 9	23 3.16	-22 39.5	2.115	3.058	8.4	21.3	8 9	22 58.78	+ 0 59.1	0.942	1.888	15.8	19.1
8 19	22 56.17	-23 56.5	2.081	3.058	6.0	21.2	8 19	22 54.33	+ 0 39.5	0.883	1.866	10.8	18.8
8 29	22 48.02	-25 5.5	2.075	3.057	5.3	21.1	8 29	22 47.68	- 0 5.4	0.843	1.846	5.6	18.4
9 8	22 39.54	-25 59.8	2.095	3.056	6.9	21.2	9 8	22 40.08	- 1 9.6	0.824	1.827	4.4	18.3
9 18	22 31.61	-26 35.3	2.142	3.054	9.5	21.4	9 18	22 33.06	- 2 23.1	0.827	1.811	9.5	18.5
9 28	22 25.06	-26 50.1	2.214	3.052	12.1	21.6	9 28	22 28.21	- 3 33.8	0.849	1.796	15.2	18.8
10 8	22 20.46	-26 45.0	2.306	3.050	14.4	21.7	10 8	22 26.60	- 4 30.9	0.889	1.783	20.4	19.0
<b>454987</b>	2015 <i>TS</i> <sub>229</sub>	9 1.9 233°00' 17 <sup>7</sup> /15.5 16											
7 30	23 12.50	+27 17.7	1.269	1.990	26.0	21.1	<b>435774</b>	2008 <i>US</i> <sub>287</sub>	9 1.9 58°53' 1 <sup>4</sup> /31.7 16				
8 9	23 7.84	+29 17.4	1.198	1.985	23.9	20.9	7 30	23 7.31	- 8 32.5	1.668	2.549	14.1	21.6
8 19	22 59.86	+30 40.4	1.140	1.980	21.7	20.7	8 9	23 2.71	- 9 19.8	1.605	2.552	10.3	21.4
8 29	22 49.26	+31 15.9	1.097	1.975	19.6	20.6	8 19	22 56.06	-10 17.6	1.565	2.555	6.1	21.2
9 8	22 37.45	+30 57.9	1.071	1.969	18.1	20.5	8 29	22 48.04	-11 19.8	1.550	2.557	1.9	20.9
9 18	22 26.21	+29 47.1	1.062	1.963	17.7	20.4	9 8	22 39.66	-12 19.2	1.561	2.560	3.7	21.1
9 28	22 17.34	+27 52.9	1.073	1.957	18.7	20.5	9 18	22 31.93	-13 9.4	1.599	2.563	8.0	21.3
10 8	22 12.08	+25 32.0	1.101	1.950	20.7	20.6	9 28	22 25.82	-13 45.2	1.662	2.566	12.0	21.6
<b>259746</b>	2003 <i>YP</i> <sub>168</sub>	9 1.9 305°87' 3 <sup>3</sup> /4.1 17											
7 30	23 8.66	- 0 2.3	1.326	2.192	17.8	20.1	10 8	22 21.98	-14 4.5	1.745	2.569	15.3	21.8
8 9	23 4.43	+ 0 12.7	1.244	2.176	14.0	19.9	<b>108832</b>	2001 <i>OX</i> <sub>83</sub>	9 1.9 4°50' 2 <sup>9</sup> /30.9 17				
8 19	22 57.47	+ 0 8.8	1.182	2.160	9.4	19.6	7 30	23 4.52	-11 1.2	1.076	1.988	17.6	18.7
8 29	22 48.51	- 0 12.9	1.142	2.144	4.8	19.3	8 9	23 1.49	-11 48.0	1.025	1.987	12.9	18.4
9 8	22 38.71	- 0 48.1	1.126	2.128	4.0	19.2	8 19	22 55.67	-12 46.5	0.993	1.987	7.6	18.1
9 18	22 29.46	- 1 30.4	1.135	2.113	8.6	19.4	8 29	22 47.97	-13 47.6	0.982	1.989	3.1	17.9
9 28	22 22.14	- 2 11.6	1.166	2.098	13.6	19.6	9 8	22 39.79	-14 40.8	0.994	1.992	5.6	18.0
10 8	22 17.72	- 2 44.8	1.218	2.084	18.0	19.9	9 18	22 32.59	-15 17.9	1.028	1.996	10.8	18.3
<b>292507</b>	2006 <i>TB</i> <sub>18</sub>	9 1.9 10°41' 2 <sup>8</sup> /30.3 18											
7 30	23 6.86	-13 12.5	1.836	2.722	12.7	20.3	9 28	22 27.65	-15 33.4	1.083	2.002	15.6	18.6
8 9	23 2.23	-13 59.4	1.773	2.723	9.3	20.1	10 8	22 25.71	-15 26.2	1.156	2.009	19.7	18.9
8 19	22 55.69	-14 51.8	1.734	2.723	5.6	19.9	<b>29983</b>	<i>Amyxu</i>	9 1.9 206°88' 0 <sup>3</sup> /1.5 18 R				
8 29	22 47.90	-15 43.4	1.720	2.724	2.8	19.7	7 30	23 5.70	- 7 4.2	2.548	3.408	10.5	19.5
9 8	22 39.78	-16 27.9	1.733	2.725	4.6	19.9	8 9	23 0.94	- 7 33.8	2.470	3.405	7.7	19.3
9 18	22 32.27	-17 0.2	1.773	2.727	8.3	20.1	8 19	22 54.76	- 8 11.1	2.416	3.401	4.6	19.1
9 28	22 26.26	-17 17.0	1.838	2.728	11.8	20.3	8 29	22 47.66	- 8 52.6	2.390	3.398	1.3	18.8
10 8	22 22.36	-17 17.2	1.923	2.730	14.8	20.5	9 8	22 40.26	- 9 34.4	2.392	3.394	2.3	18.9
<b>407590</b>	2011 <i>AU</i> <sub>65</sub>	9 1.9 278°37' 2 <sup>6</sup> /4.5 17											
7 30	23 7.35	+ 0 56.1	2.412	3.242	12.0	21.7	9 18	22 33.24	-10 12.4	2.424	3.389	5.6	19.1
8 9	23 2.30	+ 1 9.1	2.318	3.228	9.4	21.5	9 28	22 27.25	-10 43.1	2.483	3.385	8.6	19.3
8 19	22 55.65	+ 1 10.6	2.247	3.214	6.4	21.3	10 8	22 22.80	-11 4.2	2.566	3.380	11.3	19.5
8 29	22 47.90	+ 1 1.5	2.203	3.200	3.5	21.1	<b>513841</b>	2013 <i>GC</i> <sub>10</sub>	9 1.9 118°72' 0 <sup>5</sup> /1.3 18				
9 8	22 39.73	+ 0 44.3	2.187	3.185	2.9	21.0	7 30	23 5.07	- 6 50.5	2.335	3.199	11.2	21.7
9 18	22 31.88	+ 0 22.0	2.199	3.171	5.6	21.2	8 9	23 0.53	- 7 35.7	2.269	3.207	8.2	21.5
9 28	22 25.09	- 0 1.5	2.239	3.156	8.7	21.3	8 19	22 54.52	- 8 29.6	2.228	3.214	4.8	21.3
10 8	22 19.96	- 0 22.4	2.303	3.142	11.6	21.5	8 29	22 47.58	- 9 27.9	2.214	3.222	1.3	21.0
<b>319202</b>	2005 <i>YM</i> <sub>186</sub>	9 1.9 238°53' 6 <sup>4</sup> /23.4 18											
7 30	23 5.13	-25 56.1	2.478	3.362	9.9	20.1	9 8	22 40.40	-10 25.5	2.229	3.229	2.5	21.2
8 9	23 0.77	-27 50.8	2.420	3.355	7.9	20.0	9 18	22 33.68	-11 17.7	2.272	3.237	6.0	21.4
8 19	22 54.77	-29 42.6	2.388	3.348	6.5	19.9	9 28	22 28.10	-12 0.5	2.342	3.244	9.1	21.6
8 29	22 47.65	-31 23.7	2.385	3.341	6.6	19.9	10 8	22 24.14	-12 31.2	2.436	3.250	11.8	21.8
9 8	22 40.13	-32 47.4	2.409	3.333	8.1	20.0	<b>142917</b>	2002 <i>VP</i> <sub>56</sub>	9 1.9 298°64' 1 <sup>0</sup> /31.9 18				
9 18	22 33.00	-33 49.1	2.459	3.326	10.2	20.1	7 30	23 5.16	- 7 20.8	1.855	2.731	13.1	19.7
9 28	22 27.01	-34 27.1	2.532	3.318	12.3	20.3	8 9	23 1.05	- 8 12.1	1.781	2.725	9.6	19.5
10 8	22 22.77	-34 42.1	2.624	3.310	14.2	20.4	8 19	22 55.05	- 9 14.8	1.729	2.718	5.7	19.2
<b>325680</b>	2009 <i>TQ</i> <sub>33</sub>	9 1.9 322°30' 3 <sup>7</sup> /29.2 18											
7 30	23 4.73	-15 58.3	1.944	2.835	11.9	20.3	8 29	22 47.78	-10 23.7	1.704	2.712	1.6	18.9
8 9	23 0.72	-16 53.4	1.869	2.820	8.8	20.1	9 8	22 40.09	-11 31.8	1.705	2.706	3.3	19.0
8 19	22 54.84	-17 52.5	1.818	2.807	5.6	19.9	9 18	22 32.89	-12 32.6	1.734	2.699	7.4	19.3
8 29	22 47.69	-18 49.2	1.793	2.793	3.7	19.7	9 28	22 27.07	-13 20.7	1.788	2.693	11.2	19.5
9 8	22 40.10	-19 36.8	1.795	2.780	5.5	19.8	10 8	22 23.28	-13 52.8	1.864	2.687	14.5	19.7
9 18	22 33.00	-20 10.1	1.823	2.767	8.8	20.0	<b>513508</b>	2009 <i>QD</i> <sub>59</sub>	9 1.9 330°64' 1 <sup>9</sup> /31.8 18				
9 28	22 27.25	-20 25.9	1.875	2.755	12.1	20.2	7 30	23 5.05	-10 3.9	1.089	1.997	17.6	21.4
10 8	22 23.51	-20 23.4	1.948	2.743	15.1	20.4	8 9	23 2.23	-10 22.3	1.013	1.974	13.2	21.1
<b>432615</b>	2010 <i>UF</i> <sub>78</sub>	9 1.9 278°46' 0 <sup>3</sup> /2.4 16											
7 30	23 0.23	- 5 35.7	4.292	5.139	6.8	21.7	8 19	22 56.39	-10 53.2	0.957	1.951	7.9	20.7
8 9	22 56.44	- 5 46.6	4.207	5.134	5.1	21.6	8 29	22 48.29	-11 30.2	0.921	1.929	2.5	20.3
8 19	22 51.86	- 6 2.0	4.149	5.130	3.1	21.5	9 8	22 39.24	-12 4.8	0.908	1.909	4.9	20.4
8 29	22 46.79	- 6 20.6	4.119	5.126	1.0	21.3	9 18	22 30.85	-12 28.4	0.917	1.890	10.8	20.7
9 8	22 41.56	- 6 40.3	4.119	5.121	1.2	21.3	9 28	22 24.68	-12 34.6	0.945	1.873	16.4	20.9
9 18	22 36.54	- 6 59.3	4.148	5.117	3.3	21.5	10 8	22 21.80	-12 20.6	0.992	1.857	21.2	21.2
9 28	22 32.07	- 7 15.7	4.207	5.112	5.3	21.6	<b>261639</b>	2005 <i>YE</i> <sub>55</sub>	9 1.9 301°31' 4 <sup>4</sup> /6.1 18				
10 8	22 28.45	- 7 28.0	4.291	5.108	7.1	21.7	7 30	23 5.35	+ 5 55.6	2.084	2.902	14.0	20.4
<b>62702</b>	2000 <i>TU</i> <sub>32</sub>	9 1.9 337°71' 6 <sup>8</sup> /26.5 18											
7 30	23 7.69	-24 11.9	1.778	2.672	12.7	18.8	8 9	23 1.13	+ 6 7.7	1.988	2.885	11.3	20.2
8 9	23 3.05	-25 18.3	1.720	2.665	9.8	18.6	8 19	22 55.11	+ 6 2.8	1.914	2.867	8.3	20.0
8 19	22 56.28	-26 20.8	1.685	2.659	7.5	18.5	8 29	22 47.82	+ 5 40.9	1.864	2.849	5.5	19.8
8 29	22 48.10	-27 11.3	1.675	2.653	6.9	18.5	9 8	22 40.00	+ 5 4.5	1.840	2.832	4.5	19.7
9 8	22 39.55	-27 42.8	1.691	2.648	8.5	18.5	9 18	22 32.50	+ 4 17.7	1.844			

EPHEMERIDES

9 1.9

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>86534</b>	2000 DT <sub>98</sub>		9 1.9	28°23	6°2/30.1	18	<b>515939</b>	2015 RY <sub>26</sub>		9 1.9	343°87	7°7/27.5	18
7 30	23 11.20	-18 0.4	0.774	1.701	20.7	17.7	7 30	23 12.97	-27 26.1	1.638	2.526	13.9	19.9
8 9	23 6.80	-18 30.1	0.749	1.717	15.3	17.5	8 9	23 7.12	-27 57.4	1.577	2.516	11.0	19.7
8 19	22 58.83	-18 59.3	0.741	1.735	9.7	17.3	8 19	22 58.80	-28 19.9	1.538	2.507	8.6	19.5
8 29	22 48.82	-19 16.6	0.753	1.755	6.2	17.2	8 29	22 48.88	-28 25.7	1.524	2.498	7.8	19.5
9 8	22 38.79	-19 13.3	0.784	1.776	8.5	17.4	9 8	22 38.60	-28 9.0	1.534	2.491	9.2	19.5
9 18	22 30.59	-18 46.2	0.835	1.799	13.4	17.8	9 18	22 29.24	-27 27.7	1.568	2.484	12.0	19.7
9 28	22 25.54	-17 56.6	0.905	1.822	18.0	18.1	9 28	22 21.90	-26 23.2	1.625	2.478	15.1	19.9
10 8	22 24.14	-16 48.6	0.991	1.847	21.9	18.5	10 8	22 17.28	-24 59.7	1.702	2.473	17.8	20.0
<b>13780</b>	1998 UZ <sub>8</sub>		9 1.9	271°73	1°5/30.2	16	<b>115469</b>	2003 TZ <sub>31</sub>		9 1.9	157°27	1°3/31.8	17
7 30	23 0.17	-14 43.5	4.350	5.220	6.3	19.2	7 30	23 11.50	- 8 38.6	1.678	2.552	14.4	20.6
8 9	22 56.41	-15 8.9	4.271	5.213	4.6	19.0	8 9	23 5.81	- 9 22.3	1.615	2.558	10.5	20.3
8 19	22 51.87	-15 35.7	4.219	5.206	2.8	18.9	8 19	22 57.94	-10 16.1	1.575	2.563	6.2	20.1
8 29	22 46.83	-16 1.6	4.196	5.199	1.5	18.8	8 29	22 48.65	-11 14.0	1.560	2.568	1.9	19.8
9 8	22 41.63	-16 24.4	4.203	5.191	2.4	18.9	9 8	22 38.98	-12 8.8	1.573	2.572	3.7	20.0
9 18	22 36.64	-16 42.3	4.238	5.184	4.2	19.0	9 18	22 30.04	-12 54.4	1.612	2.576	8.1	20.3
9 28	22 32.22	-16 53.7	4.302	5.177	5.9	19.1	9 28	22 22.82	-13 26.0	1.677	2.579	12.1	20.5
10 8	22 28.66	-16 57.7	4.391	5.169	7.5	19.2	10 8	22 17.99	-13 41.6	1.764	2.581	15.5	20.7
<b>21435</b>	Aharon		9 1.9	283°57	1°8/ 3.2	18	<b>106686</b>	2000 WM <sub>156</sub>		9 1.9	198°24	1°6/ 3.3	18
7 30	23 10.00	- 2 24.9	1.425	2.293	16.8	18.8	7 30	23 12.11	- 1 51.3	1.825	2.673	14.5	20.5
8 9	23 5.13	- 2 29.7	1.352	2.287	12.8	18.5	8 9	23 6.23	- 2 2.4	1.746	2.670	11.1	20.2
8 19	22 57.75	- 2 51.2	1.300	2.282	8.2	18.2	8 19	22 58.22	- 2 27.7	1.689	2.667	7.1	20.0
8 29	22 48.60	- 3 26.3	1.271	2.277	3.3	17.9	8 29	22 48.76	- 3 4.4	1.659	2.663	2.9	19.7
9 8	22 38.86	- 4 9.2	1.268	2.271	3.1	17.9	9 8	22 38.80	- 3 47.6	1.655	2.658	2.7	19.7
9 18	22 29.80	- 4 53.1	1.290	2.266	8.1	18.2	9 18	22 29.40	- 4 31.9	1.680	2.652	6.9	20.0
9 28	22 22.62	- 5 31.1	1.336	2.261	12.8	18.5	9 28	22 21.55	- 5 11.5	1.731	2.646	10.9	20.2
10 8	22 18.15	- 5 58.0	1.403	2.256	16.8	18.7	10 8	22 15.97	- 5 42.0	1.804	2.639	14.5	20.4
<b>358860</b>	2008 FY <sub>101</sub>		9 1.9	134°08	0°5/ 1.3	18	<b>306736</b>	2000 WP <sub>186</sub>		9 1.9	177°39	6°8/13.1	18
7 30	23 5.27	- 6 42.7	2.501	3.361	10.7	21.5	7 30	23 6.62	+23 27.4	3.524	4.184	11.5	21.6
8 9	23 0.59	- 7 29.3	2.435	3.371	7.8	21.3	8 9	23 1.40	+23 54.5	3.432	4.186	10.3	21.4
8 19	22 54.54	- 8 24.2	2.394	3.380	4.6	21.1	8 19	22 54.99	+24 4.7	3.360	4.188	8.9	21.3
8 29	22 47.61	- 9 23.2	2.381	3.389	1.3	20.9	8 29	22 47.79	+23 56.8	3.310	4.189	7.7	21.3
9 8	22 40.46	-10 21.6	2.397	3.397	2.4	21.0	9 8	22 40.30	+23 31.1	3.286	4.190	6.9	21.2
9 18	22 33.75	-11 14.9	2.441	3.405	5.6	21.3	9 18	22 33.07	+22 49.4	3.289	4.190	6.9	21.2
9 28	22 28.10	-11 59.2	2.514	3.413	8.6	21.5	9 28	22 26.64	+21 55.0	3.318	4.189	7.6	21.3
10 8	22 23.99	-12 32.0	2.610	3.421	11.2	21.6	10 8	22 21.45	+20 52.5	3.373	4.188	8.8	21.3
<b>56359</b>	2000 AZ <sub>228</sub>		9 1.9	335°19	0°9/ 1.0	18	<b>28931</b>	2000 RU <sub>54</sub>		9 1.9	340°39	4°0/ 5.4	18
7 30	22 59.24	- 3 23.0	1.313	2.205	16.4	17.7	7 30	23 6.71	+ 3 28.2	1.852	2.688	14.9	17.5
8 9	22 57.36	- 4 57.3	1.237	2.188	12.2	17.4	8 9	23 2.23	+ 3 48.6	1.773	2.682	11.8	17.3
8 19	22 53.18	- 6 57.0	1.181	2.173	7.3	17.1	8 19	22 55.81	+ 3 52.6	1.714	2.677	8.4	17.1
8 29	22 47.33	- 9 13.8	1.149	2.158	1.9	16.7	8 29	22 48.07	+ 3 40.6	1.680	2.672	5.2	16.9
9 8	22 40.83	-11 35.0	1.142	2.144	4.1	16.8	9 8	22 39.86	+ 3 15.5	1.672	2.668	4.2	16.8
9 18	22 34.86	-13 46.5	1.161	2.131	9.5	17.1	9 18	22 32.13	+ 2 41.6	1.690	2.664	6.8	17.0
9 28	22 30.61	-15 36.4	1.202	2.120	14.5	17.3	9 28	22 25.80	+ 2 4.4	1.734	2.660	10.2	17.2
10 8	22 28.92	-16 57.6	1.263	2.109	18.7	17.6	10 8	22 21.54	+ 1 29.7	1.801	2.657	13.5	17.4
<b>51221</b>	2000 JK <sub>23</sub>		9 1.9	171°40	5°3/ 7.9	18	<b>21650</b>	Tilgner		9 1.9	46°52	5°1/ 5.9	18
7 30	23 7.10	+10 47.0	2.368	3.149	13.7	19.7	7 30	23 7.63	+ 5 27.9	1.240	2.092	19.7	18.2
8 9	23 2.11	+10 55.9	2.286	3.151	11.3	19.6	8 9	23 3.47	+ 5 29.2	1.185	2.103	15.7	17.9
8 19	22 55.55	+10 46.4	2.225	3.154	8.7	19.4	8 19	22 56.75	+ 5 3.3	1.148	2.114	11.1	17.7
8 29	22 47.93	+10 18.6	2.188	3.155	6.3	19.3	8 29	22 48.35	+ 4 12.2	1.132	2.126	6.7	17.5
9 8	22 39.96	+ 9 34.8	2.178	3.157	5.3	19.2	9 8	22 39.53	+ 3 2.3	1.140	2.138	5.2	17.5
9 18	22 32.40	+ 8 38.9	2.197	3.158	6.4	19.3	9 18	22 31.62	+ 1 42.9	1.173	2.150	8.3	17.7
9 28	22 25.97	+ 7 36.4	2.242	3.159	8.7	19.4	9 28	22 25.79	+ 0 24.6	1.228	2.163	12.7	18.0
10 8	22 21.24	+ 6 33.4	2.312	3.159	11.3	19.6	10 8	22 22.74	- 0 43.8	1.304	2.177	16.6	18.3
<b>454959</b>	2015 TK <sub>198</sub>		9 1.9	172°49	8°3/23.5	18	<b>362269</b>	2009 PV <sub>18</sub>		9 1.9	2°36	1°7/31.5	18
7 30	23 13.48	-36 10.3	2.496	3.350	10.9	21.0	7 30	23 6.42	-11 2.1	1.836	2.719	12.9	20.3
8 9	23 6.80	-37 4.7	2.451	3.351	9.3	20.9	8 9	23 1.94	-11 26.8	1.770	2.718	9.4	20.1
8 19	22 58.29	-37 47.1	2.430	3.352	8.4	20.8	8 19	22 55.57	-11 57.9	1.728	2.718	5.6	19.9
8 29	22 48.68	-38 11.4	2.434	3.353	8.4	20.8	8 29	22 47.99	-12 30.7	1.711	2.718	2.0	19.7
9 8	22 38.90	-38 13.4	2.464	3.353	9.4	20.9	9 8	22 40.07	-12 59.7	1.721	2.719	3.6	19.8
9 18	22 29.87	-37 52.1	2.518	3.354	11.0	21.0	9 18	22 32.75	-13 20.4	1.758	2.721	7.5	20.0
9 28	22 22.41	-37 8.7	2.595	3.354	12.7	21.2	9 28	22 26.90	-13 29.5	1.819	2.723	11.2	20.3
10 8	22 17.05	-36 6.5	2.691	3.354	14.3	21.3	10 8	22 23.11	-13 25.4	1.902	2.726	14.3	20.5
<b>102176</b>	1999 RV <sub>235</sub>		9 1.9	0°14	10°8/26.7	18	<b>96588</b>	1998 WR <sub>20</sub>		9 1.9	295°95	5°6/26.5	18
7 30	23 18.31	-30 40.1	1.257	2.148	17.0	18.7	7 30	23 6.44	-22 53.9	2.186	3.074	10.9	19.0
8 9	23 11.63	-31 34.9	1.211	2.147	13.9	18.5	8 9	23 1.93	-24 2.5	2.111	3.054	8.4	18.8
8 19	23 1.69	-32 15.5	1.185	2.146	11.5	18.3	8 19	22 55.60	-25 9.9	2.061	3.035	6.3	18.7
8 29	22 49.70	-32 30.0	1.182	2.146	10.8	18.3	8 29	22 48.02	-26 9.2	2.037	3.016	5.7	18.6
9 8	22 37.41	-32 11.0	1.201	2.146	12.5	18.4	9 8	22 39.98	-26 54.0	2.040	2.997	7.3	18.7
9 18	22 26.56	-31 17.3	1.242	2.147	15.4	18.6	9 18	22 32.38	-27 19.9	2.068	2.978	9.9	18.8
9 28	22 18.55	-29 53.0	1.303	2.148	18.5	18.8	9 28	22 26.07	-27 24.9	2.120	2.959	12.6	18.9
10 8	22 14.05	-28 5.9	1.381	2.150	21.3	19.0	10 8	22 21.70	-27 9.4	2.192	2.940	15.0	19.1
<b>36859</b>	2000 SC <sub>136</sub>		9 1.9	145°76	6°0/ 8.5	18	<b>304233</b>	Majaess		9 1.9	253°23	5°3/26.9	18
7 30	23 8.91	+12											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>256515</b>	2007 <i>EV</i> <sub>165</sub>		9 1.9 148°16	5°5/25.7 18			<b>346353</b>	2008 <i>RU</i> <sub>120</sub>		9 1.9 302°99	0°5/ 1.5 18		
7 30	23 7.64	-26 23.4	2.744	3.620	9.4	20.9	7 30	23 6.83	-6 42.5	1.583	2.463	14.8	21.1
8 9	23 2.33	-27 29.8	2.696	3.628	7.3	20.8	8 9	23 2.71	-7 14.8	1.502	2.447	11.0	20.8
8 19	22 55.59	-28 31.5	2.673	3.635	5.8	20.7	8 19	22 56.31	-8 0.5	1.443	2.431	6.6	20.5
8 29	22 47.96	-29 22.9	2.678	3.642	5.6	20.7	8 29	22 48.30	-8 54.5	1.408	2.416	1.8	20.2
9 8	22 40.13	-29 59.6	2.711	3.648	6.7	20.8	9 8	22 39.66	-9 50.0	1.398	2.400	3.3	20.3
9 18	22 32.79	-30 19.2	2.770	3.654	8.6	20.9	9 18	22 31.52	-10 39.8	1.415	2.385	8.2	20.5
9 28	22 26.59	-30 20.8	2.853	3.660	10.5	21.1	9 28	22 25.01	-11 17.9	1.456	2.370	12.6	20.7
10 8	22 22.02	-30 5.6	2.957	3.666	12.3	21.2	10 8	22 20.91	-11 40.3	1.517	2.356	16.5	21.0
<b>147352</b>	2003 <i>BG</i> <sub>81</sub>		9 1.9 336°84	1°4/31.9 18			<b>285499</b>	2000 <i>DF</i> <sub>38</sub>		9 1.9 234°31	0°8/ 2.7 18		
7 30	23 1.63	-6 47.5	1.122	2.027	17.5	18.9	7 30	23 10.06	-4 40.9	2.077	2.931	12.8	20.9
8 9	22 59.49	-7 41.7	1.052	2.011	13.0	18.6	8 9	23 4.53	-4 44.3	1.994	2.924	9.6	20.7
8 19	22 54.64	-8 55.7	1.002	1.996	7.8	18.3	8 19	22 57.14	-4 57.7	1.935	2.916	6.0	20.4
8 29	22 47.82	-10 21.7	0.974	1.982	2.2	17.9	8 29	22 48.51	-5 18.4	1.903	2.909	2.1	20.2
9 8	22 40.26	-11 48.6	0.968	1.969	4.6	18.0	9 8	22 39.44	-5 42.4	1.898	2.901	2.3	20.2
9 18	22 33.38	-13 4.6	0.985	1.958	10.3	18.3	9 18	22 30.83	-6 5.8	1.922	2.893	6.3	20.4
9 28	22 28.56	-14 0.4	1.023	1.948	15.6	18.6	9 28	22 23.55	-6 24.6	1.972	2.884	10.0	20.6
10 8	22 26.71	-14 31.0	1.078	1.940	20.2	18.8	10 8	22 18.24	-6 35.6	2.046	2.876	13.2	20.8
<b>69588</b>	1998 <i>EF</i> <sub>4</sub>		9 1.9 251°52	2°4/31.3 18			<b>321396</b>	2009 <i>PT</i> <sub>15</sub>		9 1.9 0°70	0°9/ 2.8 18		
7 30	23 12.52	-11 54.9	1.487	2.371	15.2	19.9	7 30	23 4.76	-3 30.5	1.910	2.774	13.3	20.5
8 9	23 6.97	-12 25.1	1.416	2.365	11.2	19.6	8 9	23 0.69	-3 48.5	1.839	2.773	10.0	20.3
8 19	22 58.87	-13 2.9	1.368	2.357	6.7	19.3	8 19	22 54.85	-4 19.0	1.790	2.772	6.2	20.1
8 29	22 49.00	-13 41.8	1.344	2.350	2.7	19.1	8 29	22 47.84	-4 58.6	1.766	2.772	2.2	19.8
9 8	22 38.56	-14 14.6	1.346	2.343	4.7	19.2	9 8	22 40.48	-5 42.3	1.769	2.773	2.4	19.8
9 18	22 28.86	-14 35.4	1.374	2.335	9.4	19.5	9 18	22 33.64	-6 25.0	1.800	2.774	6.3	20.1
9 28	22 21.11	-14 40.4	1.425	2.327	13.8	19.7	9 28	22 28.12	-7 1.6	1.856	2.775	10.1	20.3
10 8	22 16.10	-14 28.5	1.497	2.319	17.5	19.9	10 8	22 24.53	-7 28.4	1.934	2.777	13.3	20.5
<b>182742</b>	2001 <i>XW</i> <sub>78</sub>		9 1.9 278°46	0°0/ 1.9 18			<b>71694</b>	2000 <i>FN</i> <sub>44</sub>		9 1.9 181°87	1°3/31.3 18		
7 30	23 5.60	-5 10.1	2.054	2.918	12.5	20.6	7 30	23 4.92	-10 37.5	2.912	3.777	9.2	20.0
8 9	23 1.25	-5 43.3	1.975	2.911	9.3	20.4	8 9	23 0.25	-11 17.0	2.838	3.777	6.7	19.9
8 19	22 55.16	-6 27.9	1.918	2.903	5.6	20.2	8 19	22 54.36	-12 1.3	2.790	3.777	3.9	19.7
8 29	22 47.90	-7 20.0	1.888	2.896	1.7	19.9	8 29	22 47.67	-12 46.9	2.771	3.777	1.4	19.5
9 8	22 40.24	-8 14.2	1.886	2.888	2.4	20.0	9 8	22 40.75	-13 30.0	2.781	3.777	2.7	19.6
9 18	22 33.02	-9 5.1	1.911	2.881	6.4	20.2	9 18	22 34.18	-14 6.9	2.820	3.776	5.4	19.8
9 28	22 27.05	-9 47.8	1.963	2.874	10.1	20.4	9 28	22 28.51	-14 35.1	2.887	3.775	8.1	20.0
10 8	22 22.93	-10 18.8	2.037	2.866	13.3	20.6	10 8	22 24.19	-14 52.7	2.978	3.773	10.3	20.1
<b>20733</b>	1999 <i>XE</i> <sub>168</sub>		9 1.9 116°63	5°6/26.3 18			<b>113272</b>	2002 <i>RP</i> <sub>154</sub>		9 1.9 12°80	6°8/28.5 18		
7 30	23 8.49	-25 39.8	2.482	3.361	10.1	17.9	7 30	23 8.39	-19 13.5	1.095	2.010	17.1	19.0
8 9	23 3.04	-26 39.4	2.436	3.371	7.9	17.7	8 9	23 4.42	-20 19.5	1.051	2.012	12.8	18.8
8 19	22 56.05	-27 34.0	2.415	3.380	6.1	17.6	8 19	22 57.48	-21 25.8	1.027	2.016	8.7	18.6
8 29	22 48.11	-28 18.0	2.421	3.390	5.7	17.6	8 29	22 48.63	-22 20.8	1.025	2.020	6.8	18.5
9 8	22 39.99	-28 46.8	2.454	3.399	6.9	17.7	9 8	22 39.38	-22 54.4	1.045	2.026	9.0	18.6
9 18	22 32.46	-28 57.8	2.513	3.408	8.9	17.9	9 18	22 31.29	-23 0.8	1.086	2.032	13.1	18.9
9 28	22 26.20	-28 50.6	2.597	3.417	11.1	18.0	9 28	22 25.66	-22 39.2	1.148	2.040	17.2	19.2
10 8	22 21.72	-28 26.5	2.701	3.426	13.0	18.2	10 8	22 23.18	-21 52.7	1.227	2.048	20.7	19.4
<b>299684</b>	2006 <i>QB</i> <sub>90</sub>		9 1.9 303°34	0°0/ 1.7 18			<b>436152</b>	2009 <i>VR</i> <sub>8</sub>		9 1.9 138°54	2°2/ 4.1 17		
7 30	23 8.92	-7 10.7	1.807	2.678	13.6	20.7	7 30	23 9.52	+0 48.9	1.912	2.752	14.3	22.1
8 9	23 3.95	-7 17.5	1.726	2.666	10.2	20.5	8 9	23 4.13	+0 29.6	1.844	2.761	11.0	21.9
8 19	22 56.91	-7 33.6	1.667	2.654	6.2	20.2	8 19	22 56.88	-0 5.6	1.799	2.771	7.2	21.7
8 29	22 48.43	-7 55.6	1.634	2.642	1.8	19.9	8 29	22 48.42	-0 53.8	1.779	2.780	3.5	21.5
9 8	22 39.45	-8 18.9	1.628	2.630	2.8	19.9	9 8	22 39.64	-1 49.9	1.787	2.788	2.8	21.5
9 18	22 30.97	-8 38.8	1.648	2.619	7.2	20.2	9 18	22 31.46	-2 48.2	1.823	2.796	6.3	21.7
9 28	22 23.98	-8 51.1	1.694	2.608	11.3	20.4	9 28	22 24.74	-3 42.5	1.885	2.804	10.0	22.0
10 8	22 19.19	-8 53.0	1.762	2.597	14.8	20.6	10 8	22 20.07	-4 28.1	1.971	2.811	13.2	22.2
<b>468495</b>	2005 <i>GN</i> <sub>132</sub>		9 1.9 65°81	1°5/31.8 16			<b>277665</b>	2006 <i>BC</i> <sub>197</sub>		9 1.9 27°53	0°5/ 2.4 16		
7 30	23 10.21	-8 14.8	1.305	2.193	16.7	21.5	7 30	23 3.16	-2 8.9	1.261	2.146	17.4	19.9
8 9	23 5.16	-9 4.3	1.261	2.210	12.2	21.3	8 9	23 0.10	-3 8.5	1.212	2.158	13.0	19.6
8 19	22 57.64	-10 5.8	1.237	2.228	7.1	21.0	8 19	22 54.70	-4 28.9	1.183	2.170	7.9	19.4
8 29	22 48.60	-11 11.7	1.238	2.246	2.2	20.8	8 29	22 47.81	-6 2.8	1.176	2.184	2.5	19.1
9 8	22 39.32	-12 12.8	1.263	2.263	4.2	21.0	9 8	22 40.59	-7 39.6	1.194	2.198	3.1	19.2
9 18	22 31.07	-13 1.6	1.314	2.281	9.0	21.3	9 18	22 34.22	-9 9.0	1.237	2.213	8.3	19.6
9 28	22 24.92	-13 33.3	1.388	2.299	13.4	21.6	9 28	22 29.74	-10 22.2	1.303	2.229	12.9	19.9
10 8	22 21.50	-13 45.9	1.482	2.316	17.0	21.9	10 8	22 27.78	-11 14.3	1.389	2.246	16.8	20.2
<b>181013</b>	2005 <i>NU</i> <sub>73</sub>		9 1.9 342°67	0°8/ 1.2 18			<b>168800</b>	2000 <i>SW</i> <sub>93</sub>		9 1.9 314°38	3°3/ 3.9 18		
7 30	23 5.27	-7 27.2	1.792	2.670	13.4	20.6	7 30	23 11.02	-0 49.2	1.268	2.137	18.4	20.0
8 9	23 1.19	-8 8.0	1.722	2.666	9.9	20.4	8 9	23 6.26	-0 24.7	1.195	2.128	14.3	19.7
8 19	22 55.20	-8 59.8	1.674	2.663	5.8	20.1	8 19	22 58.67	-0 18.1	1.141	2.120	9.6	19.4
8 29	22 47.93	-9 57.3	1.652	2.660	1.6	19.8	8 29	22 49.05	-0 28.3	1.110	2.112	4.8	19.2
9 8	22 40.26	-10 54.2	1.656	2.657	3.2	19.9	9 8	22 38.67	-0 51.0	1.102	2.104	4.1	19.1
9 18	22 33.13	-11 44.3	1.687	2.655	7.4	20.2	9 18	22 29.00	-1 20.3	1.119	2.096	8.7	19.3
9 28	22 27.44	-12 22.6	1.744	2.653	11.3	20.4	9 28	22 21.43	-1 48.9	1.158	2.089	13.7	19.6
10 8	22 23.82	-12 45.9	1.822	2.651	14.6	20.6	10 8	22 16.89	-2 10.4	1.217	2.083	18.1	19.9
<b>468619</b>	2008 <i>EC</i> <sub>165</sub>		9 1.9 134°73	3°7/ 5.7 17			<b>350870</b>	2002 <i>OF</i> <sub>37</sub>		9 1.9 31°26	2°0/ 3.6 18		
7 30	23 9.18	+5 53.9	1.877	2.696	15.3	21.8	7 30	23 7.92	-1 14.2	1.743	2.599	14.8	20.9
8 9	23 3.89	+5 28.1	1.810	2.709	12.1	21.6	8 9	23 3.16	-1 20.2	1.674	2.601	11.3	20.7
8 19	22 56.73	+4 41.6	1.763	2.722	8.5	21.4	8 19	22 56.41	-1 40.9	1.626	2.603	7.3	20.5
8 29	22 48.35	+3 36.8	1.742	2.734	5.0	21.2	8 29	22 48.32	-2 13.9	1.602	2.606	3.2	20.2
9 8	22 39.65	+2 19.2	1.748	2.745	3.8	21.2	9 8	22 39.84	-2 54.2	1.606	2.608	2.8	20.2
9 18	22 31.57	+0 55.6	1.782	2.756	6.5	21.3	9 18	22 31.95	-3 36.4	1.636	2.611	6.7	20.5
9 28	22 24.98	+0 26.2	1.843	2.766	10.0	21.6	9 28	22 25.60	-4 14.7	1.691	2.614	10.7	20.7
10 8	22 20.46	-1 39.7	1.929	2.775	13.2	21.8	10 8	22 21.43	-4 44.6	1.769	2.617	14.1	20.9

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>508390</b>	2016 <i>GD</i> <sub>29</sub>		9 1.9 24°95'	1.6°/1.1	17		<b>440998</b>	2007 <i>DM</i> <sub>40</sub>		9 1.9 315°47'	0.2°/1.7	17	
7 30	23 7.70	- 9 7.7	0.895	1.809	20.0	19.9	7 30	23 2.09	- 3 38.1	1.839	2.710	13.4	21.0
8 9	23 4.09	- 9 29.5	0.857	1.820	14.7	19.7	8 9	22 58.96	- 4 47.5	1.752	2.692	10.0	20.7
8 19	22 57.32	-10 5.1	0.837	1.832	8.7	19.4	8 19	22 53.97	- 6 14.2	1.687	2.674	6.1	20.4
8 29	22 48.59	-10 46.1	0.838	1.846	2.5	19.1	8 29	22 47.66	- 7 52.9	1.648	2.656	1.7	20.1
9 8	22 39.55	-11 22.7	0.860	1.862	4.7	19.3	9 8	22 40.83	- 9 35.6	1.637	2.639	2.9	20.2
9 18	22 31.86	-11 46.8	0.903	1.878	10.6	19.7	9 18	22 34.38	-11 13.8	1.653	2.622	7.3	20.4
9 28	22 26.84	-11 53.4	0.966	1.896	15.8	20.1	9 28	22 29.20	-12 39.7	1.694	2.606	11.4	20.6
10 8	22 25.14	-11 41.0	1.047	1.915	20.1	20.4	10 8	22 26.00	-13 47.7	1.758	2.590	14.9	20.8
<b>255256</b>	2005 <i>VL</i>		9 1.9 258°46'	18°1/19.4	17		<b>166063</b>	2002 <i>CT</i> <sub>60</sub>		9 1.9 81°75'	6°4/28.2	17	
7 30	23 7.31	+31 17.2	1.220	1.925	27.6	21.2	7 30	23 12.48	-19 19.2	1.306	2.206	15.9	19.6
8 9	23 4.14	+32 36.9	1.145	1.916	25.7	21.0	8 9	23 7.03	-20 38.3	1.264	2.217	11.9	19.4
8 19	22 57.77	+33 12.5	1.079	1.907	23.4	20.8	8 19	22 58.87	-21 57.4	1.244	2.228	8.1	19.2
8 29	22 48.87	+32 52.7	1.027	1.898	21.1	20.6	8 29	22 49.04	-23 5.2	1.247	2.239	6.4	19.1
9 8	22 38.85	+31 31.2	0.989	1.889	19.1	20.4	9 8	22 38.91	-23 52.2	1.275	2.250	8.5	19.3
9 18	22 29.41	+29 9.4	0.969	1.879	18.2	20.3	9 18	22 29.89	-24 13.2	1.326	2.261	12.2	19.5
9 28	22 22.33	+25 59.1	0.968	1.869	18.7	20.3	9 28	22 23.16	-24 7.2	1.399	2.272	15.9	19.8
10 8	22 18.80	+22 21.2	0.987	1.860	20.7	20.4	10 8	22 19.38	-23 37.0	1.490	2.283	19.0	20.0
<b>314599</b>	2006 <i>AX</i> <sub>90</sub>		9 1.9 173°33'	0°0/1.8	18		<b>485216</b>	2010 <i>UA</i> <sub>95</sub>		9 1.9 266°81'	4°4/27.8	17	
7 30	23 5.31	- 5 49.8	2.794	3.647	9.9	22.8	7 30	23 8.08	-20 37.0	2.508	3.387	10.0	22.0
8 9	23 0.58	- 6 20.1	2.719	3.649	7.3	22.6	8 9	23 2.97	-21 33.1	2.423	3.364	7.6	21.8
8 19	22 54.58	- 6 58.1	2.668	3.651	4.4	22.4	8 19	22 56.20	-22 29.3	2.363	3.341	5.3	21.6
8 29	22 47.76	- 7 40.7	2.645	3.653	1.3	22.2	8 29	22 48.28	-23 20.1	2.331	3.318	4.4	21.5
9 8	22 40.70	- 8 24.2	2.652	3.654	1.9	22.3	9 8	22 39.92	-24 0.0	2.326	3.294	5.8	21.6
9 18	22 34.00	- 9 4.9	2.688	3.655	5.0	22.5	9 18	22 31.91	-24 25.2	2.350	3.269	8.4	21.7
9 28	22 28.23	- 9 39.4	2.752	3.655	7.8	22.7	9 28	22 25.01	-24 33.5	2.398	3.245	11.0	21.8
10 8	22 23.85	-10 5.5	2.840	3.655	10.3	22.8	10 8	22 19.82	-24 24.7	2.468	3.220	13.4	22.0
<b>488103</b>	2015 <i>VR</i> <sub>66</sub>		9 1.9 284°97'	4°3/6.8	17		<b>251785</b>	1999 <i>RP</i> <sub>186</sub>		9 1.9 347°59'	1°1/1.1	18	
7 30	23 4.40	+ 7 38.2	2.375	3.178	13.0	21.6	7 30	23 3.43	- 8 44.2	1.455	2.349	15.0	19.3
8 9	23 0.29	+ 7 38.0	2.274	3.159	10.6	21.5	8 9	23 0.28	- 9 9.6	1.385	2.337	11.1	19.0
8 19	22 54.61	+ 7 20.9	2.195	3.141	7.9	21.3	8 19	22 54.89	- 9 46.0	1.335	2.326	6.6	18.8
8 29	22 47.82	+ 6 47.0	2.141	3.122	5.3	21.1	8 29	22 47.94	-10 28.3	1.309	2.317	1.9	18.4
9 8	22 40.56	+ 5 59.0	2.114	3.103	4.3	21.0	9 8	22 40.48	-11 9.4	1.307	2.309	3.7	18.5
9 18	22 33.58	+ 5 0.7	2.115	3.084	6.0	21.0	9 18	22 33.62	-11 42.8	1.330	2.302	8.5	18.8
9 28	22 27.61	+ 3 57.7	2.142	3.065	8.8	21.2	9 28	22 28.45	-12 3.2	1.377	2.296	12.9	19.1
10 8	22 23.26	+ 2 55.7	2.195	3.046	11.6	21.3	10 8	22 25.71	-12 7.7	1.443	2.291	16.7	19.3
<b>67561</b>	2000 <i>SE</i> <sub>85</sub>		9 1.9 174°39'	3°6/30.0	18		<b>201083</b>	2002 <i>GE</i> <sub>51</sub>		9 1.9 111°34'	3°0/30.2	18	
7 30	23 11.13	-13 20.8	1.554	2.442	14.6	19.2	7 30	23 11.22	-14 25.8	1.958	2.836	12.4	20.6
8 9	23 5.79	-14 27.5	1.494	2.443	10.7	19.0	8 9	23 5.27	-15 13.6	1.908	2.853	9.0	20.4
8 19	22 58.10	-15 41.3	1.456	2.445	6.5	18.8	8 19	22 57.50	-16 4.6	1.882	2.869	5.5	20.2
8 29	22 48.83	-16 53.9	1.443	2.446	3.6	18.6	8 29	22 48.62	-16 52.6	1.883	2.886	3.0	20.1
9 8	22 39.12	-17 56.5	1.457	2.446	5.7	18.7	9 8	22 39.55	-17 32.0	1.912	2.901	4.7	20.2
9 18	22 30.17	-18 42.2	1.496	2.447	9.8	19.0	9 18	22 31.21	-17 58.4	1.969	2.917	8.0	20.5
9 28	22 23.07	-19 7.2	1.560	2.446	13.7	19.2	9 28	22 24.43	-18 9.6	2.051	2.932	11.2	20.7
10 8	22 18.55	-19 11.0	1.643	2.446	17.1	19.4	10 8	22 19.73	-18 5.3	2.155	2.946	13.9	20.9
<b>313121</b>	2000 <i>YV</i> <sub>123</sub>		9 1.9 143°49'	1°2/3.3	18		<b>502893</b>	2015 <i>DA</i> <sub>223</sub>		9 1.9 290°76'	2°0/5.9	17	
7 30	23 6.98	- 2 25.8	2.582	3.423	11.0	20.9	7 30	22 59.01	+ 4 21.9	4.295	5.098	7.6	21.1
8 9	23 1.86	- 2 35.5	2.509	3.430	8.3	20.7	8 9	22 55.65	+ 4 11.7	4.204	5.094	6.0	21.0
8 19	22 55.37	- 2 54.7	2.460	3.436	5.3	20.6	8 19	22 51.51	+ 3 53.1	4.137	5.090	4.3	20.9
8 29	22 47.99	- 3 21.2	2.438	3.442	2.2	20.4	8 29	22 46.88	+ 3 27.1	4.098	5.086	2.6	20.8
9 8	22 40.38	- 3 51.7	2.445	3.447	2.0	20.4	9 8	22 42.10	+ 2 55.4	4.088	5.081	2.1	20.7
9 18	22 33.17	- 4 22.9	2.481	3.452	5.0	20.6	9 18	22 37.49	+ 2 20.0	4.107	5.077	3.3	20.8
9 28	22 27.02	- 4 51.0	2.545	3.457	8.0	20.8	9 28	22 33.42	+ 1 43.5	4.155	5.073	5.0	20.9
10 8	22 22.38	- 5 13.2	2.634	3.462	10.6	21.0	10 8	22 30.16	+ 1 8.2	4.230	5.069	6.7	21.1
<b>23227</b>	2000 <i>WP</i> <sub>55</sub>		9 1.9 112°70'	0°2/1.8	18		<b>342393</b>	2008 <i>UV</i> <sub>42</sub>		9 1.9 25°10'	2°8/30.6	18	
7 30	23 7.00	- 6 51.4	2.528	3.385	10.7	18.5	7 30	23 8.16	-12 21.4	1.546	2.437	14.4	20.8
8 9	23 1.86	- 7 15.3	2.465	3.399	7.8	18.4	8 9	23 3.56	-13 10.4	1.488	2.439	10.5	20.6
8 19	22 55.34	- 7 46.5	2.427	3.412	4.7	18.2	8 19	22 56.73	-14 6.7	1.452	2.442	6.3	20.3
8 29	22 47.98	- 8 21.5	2.417	3.425	1.3	18.0	8 29	22 48.44	-15 3.0	1.440	2.446	3.0	20.1
9 8	22 40.43	- 8 56.6	2.436	3.437	2.1	18.1	9 8	22 39.78	-15 51.7	1.455	2.449	5.0	20.3
9 18	22 33.35	- 9 28.1	2.483	3.450	5.4	18.3	9 18	22 31.86	-16 26.7	1.495	2.453	9.1	20.5
9 28	22 27.37	- 9 52.8	2.559	3.462	8.3	18.5	9 28	22 25.72	-16 44.1	1.559	2.457	13.0	20.8
10 8	22 22.95	-10 8.7	2.658	3.474	10.9	18.7	10 8	22 22.01	-16 43.1	1.643	2.461	16.4	21.0
<b>339336</b>	2004 <i>YE</i> <sub>5</sub>		9 1.9 227°98'	1°2/3.2	18		<b>259708</b>	2003 <i>YV</i> <sub>44</sub>		9 1.9 259°57'	4°2/5.1	18	
7 30	23 8.62	- 2 13.3	2.254	3.098	12.3	22.0	7 30	23 10.63	+ 3 32.5	1.689	2.523	16.1	21.0
8 9	23 3.40	- 2 32.2	2.164	3.087	9.3	21.7	8 9	23 5.53	+ 3 44.2	1.597	2.506	12.9	20.8
8 19	22 56.47	- 3 3.1	2.098	3.075	5.9	21.5	8 19	22 58.08	+ 3 37.0	1.525	2.489	9.1	20.5
8 29	22 48.36	- 3 43.4	2.058	3.063	2.4	21.3	8 29	22 48.91	+ 3 11.4	1.477	2.470	5.4	20.3
9 8	22 39.80	- 4 28.9	2.047	3.050	2.2	21.2	9 8	22 38.98	+ 2 30.5	1.455	2.452	4.4	20.1
9 18	22 31.61	- 5 15.0	2.065	3.037	5.9	21.5	9 18	22 29.44	+ 1 39.7	1.459	2.433	7.6	20.3
9 28	22 24.58	- 5 56.8	2.110	3.023	9.4	21.6	9 28	22 21.45	+ 0 46.1	1.489	2.414	11.7	20.5
10 8	22 19.34	- 6 30.6	2.180	3.008	12.5	21.8	10 8	22 15.87	- 0 3.2	1.542	2.394	15.6	20.7
<b>483389</b>	2016 <i>TN</i> <sub>66</sub>		9 1.9 343°21'	6°6/6.3	18		<b>72882</b>	2001 <i>KM</i> <sub>9</sub>		9 1.9 252°07'	5°2/8.9	18	

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>365763</b>	2010 XE <sub>10</sub>		9 1.9 316°68	4.3/ 6.7	18		<b>98173</b>	2000 SO <sub>92</sub>		9 1.9 172°36	5.8/ 6.2	18	
7 30	23 3.95	+ 7 14.4	2.124	2.937	14.0	20.7	7 30	23 12.25	+ 6 23.9	1.510	2.337	18.1	19.1
8 9	23 0.05	+ 7 10.4	2.038	2.930	11.3	20.5	8 9	23 6.77	+ 6 55.0	1.438	2.338	14.6	18.9
8 19	22 54.50	+ 6 47.7	1.973	2.924	8.3	20.3	8 19	22 58.80	+ 7 4.1	1.385	2.339	10.8	18.6
8 29	22 47.81	+ 6 7.2	1.933	2.917	5.5	20.1	8 29	22 49.12	+ 6 50.5	1.355	2.340	7.2	18.4
9 8	22 40.71	+ 5 12.0	1.919	2.911	4.4	20.0	9 8	22 38.84	+ 6 17.0	1.350	2.340	5.9	18.4
9 18	22 34.00	+ 4 7.2	1.933	2.904	6.2	20.1	9 18	22 29.24	+ 5 29.2	1.370	2.341	8.3	18.5
9 28	22 28.46	+ 2 58.9	1.973	2.898	9.2	20.3	9 28	22 21.49	+ 4 35.0	1.415	2.341	12.1	18.7
10 8	22 24.68	+ 1 53.6	2.037	2.893	12.2	20.5	10 8	22 16.39	+ 3 42.6	1.482	2.340	15.8	19.0
<b>439112</b>	2011 SL <sub>89</sub>		9 1.9 350°80	2.2/ 3.9	18		<b>108036</b>	2001 FK <sub>154</sub>		9 1.9 75°95	2.6/ 30.1	18	
7 30	23 5.89	- 0 10.9	1.712	2.568	14.9	20.6	7 30	23 6.29	- 14 6.6	2.243	3.123	11.0	19.3
8 9	23 1.76	- 0 22.1	1.639	2.566	11.5	20.4	8 9	23 1.55	- 14 54.7	2.187	3.133	8.0	19.1
8 19	22 55.63	- 0 49.8	1.587	2.564	7.6	20.2	8 19	22 55.26	- 15 46.1	2.156	3.144	4.8	19.0
8 29	22 48.14	- 1 31.3	1.559	2.562	3.5	19.9	8 29	22 48.01	- 16 35.6	2.153	3.155	2.7	18.8
9 8	22 40.23	- 2 21.5	1.558	2.560	2.9	19.9	9 8	22 40.55	- 17 18.2	2.177	3.166	4.2	19.0
9 18	22 32.86	- 3 14.4	1.583	2.559	6.8	20.1	9 18	22 33.64	- 17 49.8	2.229	3.177	7.2	19.2
9 28	22 26.98	- 4 3.5	1.633	2.559	10.8	20.4	9 28	22 27.96	- 18 7.8	2.307	3.188	10.1	19.4
10 8	22 23.26	- 4 43.5	1.705	2.558	14.3	20.6	10 8	22 24.02	- 18 11.4	2.407	3.199	12.6	19.6
<b>31435</b>	Benhauck		9 1.9 187°63	3.2/ 30.5	18		<b>375166</b>	2008 CZ <sub>194</sub>		9 1.9 83°80	0.9/ 1.3	17	
7 30	23 12.65	- 13 2.6	1.581	2.465	14.6	18.5	7 30	23 11.51	- 7 54.8	1.487	2.365	15.6	21.2
8 9	23 6.91	- 13 54.8	1.517	2.465	10.7	18.2	8 9	23 5.97	- 8 24.9	1.434	2.378	11.5	21.0
8 19	22 58.79	- 14 53.9	1.475	2.464	6.5	18.0	8 19	22 58.14	- 9 5.9	1.403	2.392	6.8	20.7
8 29	22 49.06	- 15 52.3	1.459	2.463	3.2	17.8	8 29	22 48.87	- 9 51.8	1.397	2.405	1.9	20.5
9 8	22 38.87	- 16 42.1	1.469	2.462	5.3	17.9	9 8	22 39.31	- 10 35.7	1.418	2.419	3.5	20.6
9 18	22 29.44	- 17 17.0	1.506	2.460	9.4	18.2	9 18	22 30.64	- 11 11.4	1.464	2.432	8.2	20.9
9 28	22 21.86	- 17 33.4	1.567	2.457	13.4	18.4	9 28	22 23.90	- 11 34.3	1.534	2.445	12.4	21.2
10 8	22 16.88	- 17 30.7	1.648	2.454	16.9	18.6	10 8	22 19.71	- 11 42.4	1.626	2.458	15.9	21.5
<b>393113</b>	2013 BL <sub>8</sub>		9 1.9 245°72	2.1/ 31.0	18		<b>321118</b>	2008 TW <sub>173</sub>		9 1.9 205°30	3.0/ 5.2	18	
7 30	23 8.06	- 11 41.4	1.995	2.872	12.2	21.2	7 30	23 6.03	+ 4 3.8	1.979	2.809	14.3	20.9
8 9	23 3.13	- 12 21.1	1.922	2.867	9.0	21.0	8 9	23 1.66	+ 3 35.2	1.899	2.807	11.2	20.7
8 19	22 56.35	- 13 7.1	1.874	2.862	5.3	20.8	8 19	22 55.50	+ 2 47.5	1.840	2.805	7.7	20.5
8 29	22 48.34	- 13 54.2	1.851	2.857	2.2	20.6	8 29	22 48.13	+ 1 43.3	1.806	2.802	4.3	20.3
9 8	22 39.95	- 14 36.6	1.857	2.852	3.9	20.7	9 8	22 40.34	+ 0 27.4	1.799	2.799	3.2	20.2
9 18	22 32.08	- 15 9.4	1.890	2.847	7.6	20.9	9 18	22 33.01	- 0 53.5	1.821	2.796	6.2	20.4
9 28	22 25.58	- 15 29.1	1.948	2.842	11.1	21.1	9 28	22 26.98	- 2 12.3	1.869	2.792	9.8	20.6
10 8	22 21.08	- 15 34.1	2.028	2.836	14.1	21.3	10 8	22 22.86	- 3 22.7	1.941	2.789	13.0	20.8
<b>223388</b>	2003 SV <sub>85</sub>		9 1.9 327°76	1.5/ 3.4	18		<b>401597</b>	2013 GY <sub>21</sub>		9 1.9 77°31	2.4/ 4.9	18	
7 30	23 4.58	- 2 0.6	2.017	2.873	13.0	20.1	7 30	23 4.24	+ 2 55.8	2.215	3.047	12.9	20.8
8 9	23 0.58	- 2 11.9	1.934	2.862	9.9	19.9	8 9	23 0.08	+ 2 25.4	2.146	3.057	10.0	20.6
8 19	22 54.85	- 2 36.1	1.873	2.852	6.4	19.6	8 19	22 54.41	+ 1 39.3	2.100	3.067	6.7	20.5
8 29	22 47.92	- 3 10.7	1.838	2.842	2.7	19.4	8 29	22 47.79	+ 0 40.2	2.080	3.077	3.6	20.3
9 8	22 40.57	- 3 51.4	1.829	2.832	2.4	19.3	9 8	22 40.90	- 0 27.3	2.087	3.088	2.7	20.2
9 18	22 33.63	- 4 33.5	1.848	2.823	6.1	19.6	9 18	22 34.49	- 1 37.6	2.123	3.098	5.4	20.4
9 28	22 27.92	- 5 11.7	1.892	2.814	9.8	19.8	9 28	22 29.23	- 2 44.9	2.186	3.108	8.6	20.7
10 8	22 24.06	- 5 41.9	1.960	2.805	13.1	20.0	10 8	22 25.63	- 3 44.3	2.274	3.119	11.5	20.9
<b>438308</b>	2006 HC <sub>11</sub>		9 1.9 67°89	5.1/ 7.8	18		<b>261449</b>	2005 VH <sub>31</sub>		9 1.9 107°63	4.7/ 7.6	18	
7 30	23 5.38	+ 10 59.6	1.718	2.523	17.1	20.7	7 30	23 5.28	+ 9 27.8	2.337	3.130	13.5	20.8
8 9	23 1.23	+ 10 20.9	1.659	2.543	13.9	20.5	8 9	23 0.82	+ 9 27.9	2.261	3.137	11.0	20.6
8 19	22 55.20	+ 9 15.4	1.620	2.564	10.3	20.3	8 19	22 54.87	+ 9 10.0	2.206	3.143	8.3	20.5
8 29	22 47.99	+ 7 45.6	1.604	2.584	6.8	20.2	8 29	22 47.92	+ 8 34.6	2.176	3.150	5.8	20.3
9 8	22 40.54	+ 5 58.1	1.614	2.605	5.1	20.1	9 8	22 40.69	+ 7 44.6	2.172	3.157	4.7	20.3
9 18	22 33.77	+ 4 1.8	1.652	2.625	6.9	20.3	9 18	22 33.87	+ 6 44.5	2.197	3.163	6.0	20.4
9 28	22 28.53	+ 2 6.8	1.716	2.646	10.1	20.5	9 28	22 28.18	+ 5 39.8	2.248	3.169	8.5	20.5
10 8	22 25.38	+ 0 21.6	1.804	2.666	13.2	20.8	10 8	22 24.12	+ 4 36.3	2.324	3.176	11.1	20.7
<b>24994</b>	Prettyman		9 1.9 16°71	4.7/ 29.4	18		<b>283362</b>	2000 AL <sub>185</sub>		9 1.9 288°72	4.8/ 6.1	18	
7 30	23 6.62	- 14 4.7	1.190	2.098	16.5	18.0	7 30	23 7.16	+ 6 6.2	1.862	2.684	15.3	20.1
8 9	23 2.94	- 15 23.2	1.141	2.101	12.1	17.7	8 9	23 2.84	+ 6 16.4	1.760	2.659	12.5	19.9
8 19	22 56.58	- 16 49.6	1.112	2.105	7.5	17.5	8 19	22 56.43	+ 6 7.2	1.679	2.634	9.2	19.6
8 29	22 48.44	- 18 12.9	1.107	2.109	4.7	17.3	8 29	22 48.46	+ 5 38.3	1.622	2.609	6.0	19.4
9 8	22 39.86	- 19 21.9	1.125	2.114	7.1	17.5	9 8	22 39.78	+ 4 52.3	1.591	2.584	4.9	19.3
9 18	22 32.24	- 20 8.2	1.166	2.119	11.6	17.8	9 18	22 31.37	+ 3 53.9	1.586	2.558	7.2	19.4
9 28	22 26.79	- 20 28.0	1.228	2.126	15.9	18.0	9 28	22 24.27	+ 2 50.0	1.607	2.533	10.9	19.5
10 8	22 24.24	- 20 21.6	1.309	2.133	19.5	18.3	10 8	22 19.30	+ 1 48.2	1.651	2.508	14.5	19.7
<b>459461</b>	2013 AD		9 1.9 337°55	2.8/ 2.9	17		<b>523136</b>	2016 SM <sub>54</sub>		9 1.9 357°16	5.2/ 28.5	18	
7 30	23 24.54	- 6 24.6	1.090	1.963	20.4	20.3	7 30	23 6.51	- 17 26.7	1.514	2.415	14.1	20.6
8 9	23 16.69	- 5 4.3	1.024	1.961	15.7	20.0	8 9	23 2.48	- 18 38.3	1.458	2.413	10.4	20.4
8 19	23 5.15	- 3 51.4	0.977	1.960	10.1	19.7	8 19	22 56.17	- 19 52.9	1.424	2.411	6.9	20.2
8 29	22 50.99	- 2 46.6	0.953	1.958	4.3	19.3	8 29	22 48.34	- 21 1.5	1.414	2.410	5.2	20.1
9 8	22 36.01	- 1 49.9	0.955	1.957	4.4	19.3	9 8	22 40.09	- 21 55.4	1.430	2.410	7.2	20.2
9 18	22 22.24	- 1 0.4	0.981	1.956	10.2	19.7	9 18	22 32.59	- 22 28.5	1.470	2.410	10.8	20.4
9 28	22 11.44	- 0 15.7	1.031	1.955	15.7	20.0	9 28	22 26.88	- 22 38.0	1.532	2.411	14.4	20.6
10 8	22 4.60	+ 0 27.3	1.100	1.954	20.3	20.3	10 8	22 23.65	- 22 24.6	1.613	2.412	17.5	20.9
<b>311316</b>	2005 MZ <sub>17</sub>		9 1.9 329°37	5.3/ 27.5	18		<b>469624</b>	2004 RA <sub>167</sub>		9 1.9 11°42	1.0/ 2.7	17	
7 30	23 2.05	- 1											

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>412556</b>	2014 <i>NC</i> <sub>44</sub>	9 1.9 45°21' 8 <sup>o</sup> 3/11.1 18					<b>374246</b>	2005 <i>GU</i> <sub>151</sub>	9 2.0 87°18' 1 <sup>o</sup> 2/ 3.0 13 C				
7 30	23 7.40	+17 50.9	2.187	2.926	15.8	20.2	7 30	23 11.14	- 1 48.6	1.487	2.348	16.5	21.5
8 9	23 2.57	+18 42.4	2.115	2.936	13.7	20.1	8 9	23 5.63	- 2 24.4	1.438	2.370	12.4	21.3
8 19	22 56.01	+19 11.9	2.062	2.945	11.5	19.9	8 19	22 57.90	- 3 17.3	1.411	2.392	7.7	21.1
8 29	22 48.28	+19 17.3	2.031	2.955	9.5	19.8	8 29	22 48.82	- 4 22.0	1.408	2.414	2.8	20.9
9 8	22 40.17	+18 58.9	2.024	2.965	8.4	19.8	9 8	22 39.52	- 5 30.8	1.432	2.436	2.8	20.9
9 18	22 32.52	+18 19.8	2.043	2.976	8.7	19.8	9 18	22 31.14	- 6 36.0	1.483	2.456	7.4	21.2
9 28	22 26.15	+17 25.6	2.086	2.986	10.1	19.9	9 28	22 24.65	- 7 30.9	1.558	2.477	11.7	21.5
10 8	22 21.65	+16 23.2	2.153	2.997	12.1	20.1	10 8	22 20.64	- 8 11.3	1.655	2.497	15.2	21.8
<b>232122</b>	2002 <i>AC</i> <sub>43</sub>	9 1.9 319°85' 1°1/ 1.1 18					<b>119837</b>	2002 <i>CY</i> <sub>12</sub>	9 2.0 161°85' 7°5/24.7 18				
7 30	23 4.15	- 6 35.0	1.337	2.230	16.1	20.1	7 30	23 11.31	-27 45.0	2.043	2.924	11.9	19.5
8 9	23 1.13	- 7 26.4	1.259	2.210	12.0	19.8	8 9	23 5.59	-29 18.7	1.998	2.929	9.5	19.4
8 19	22 55.61	- 8 35.3	1.200	2.191	7.2	19.5	8 19	22 57.86	-30 45.7	1.976	2.933	7.8	19.3
8 29	22 48.25	- 9 55.5	1.165	2.173	2.0	19.2	8 29	22 48.83	-31 57.5	1.981	2.937	7.7	19.3
9 8	22 40.15	-11 17.3	1.154	2.156	4.0	19.2	9 8	22 39.48	-32 47.4	2.012	2.941	9.2	19.4
9 18	22 32.58	-12 30.9	1.168	2.139	9.4	19.5	9 18	22 30.82	-33 11.9	2.068	2.944	11.4	19.5
9 28	22 26.82	-13 27.8	1.204	2.123	14.4	19.7	9 28	22 23.78	-33 10.8	2.146	2.947	13.8	19.7
10 8	22 23.75	-14 2.9	1.259	2.107	18.7	20.0	10 8	22 18.96	-32 46.8	2.243	2.949	15.8	19.9
<b>304513</b>	2006 <i>UB</i> <sub>208</sub>	9 1.9 296°05' 0°6/ 2.6 18					<b>208776</b>	2002 <i>PL</i> <sub>156</sub>	9 2.0 336°73' 1°9/31.3 18				
7 30	23 6.16	- 3 55.5	1.956	2.817	13.1	21.6	7 30	23 4.03	- 8 27.5	1.543	2.433	14.5	20.1
8 9	23 1.78	- 4 20.8	1.878	2.811	9.9	21.4	8 9	23 0.64	- 9 33.1	1.474	2.425	10.6	19.8
8 19	22 55.59	- 4 58.5	1.822	2.805	6.1	21.1	8 19	22 55.11	-10 52.0	1.426	2.418	6.3	19.6
8 29	22 48.17	- 5 45.1	1.792	2.799	2.0	20.8	8 29	22 48.08	-12 17.0	1.404	2.411	2.2	19.3
9 8	22 40.33	- 6 35.5	1.790	2.793	2.4	20.9	9 8	22 40.56	-13 39.1	1.407	2.405	4.3	19.4
9 18	22 32.96	- 7 24.1	1.815	2.788	6.5	21.1	9 18	22 33.61	-14 49.8	1.435	2.399	8.8	19.7
9 28	22 26.91	- 8 5.6	1.866	2.782	10.2	21.3	9 28	22 28.28	-15 42.7	1.488	2.394	13.0	19.9
10 8	22 22.80	- 8 36.4	1.940	2.776	13.5	21.5	10 8	22 25.27	-16 14.6	1.561	2.390	16.6	20.1
<b>184406</b>	2005 <i>MT</i> <sub>20</sub>	9 2.0 93°88' 0°9/ 1.2 17					<b>225670</b>	2001 <i>OP</i> <sub>11</sub>	9 2.0 15°27' 4°6/30.2 17				
7 30	23 10.62	- 7 11.3	1.537	2.413	15.3	20.9	7 30	23 8.41	-15 30.6	1.060	1.973	17.7	19.6
8 9	23 5.25	- 7 57.6	1.486	2.429	11.2	20.7	8 9	23 4.45	-16 7.9	1.016	1.977	13.0	19.4
8 19	22 57.69	- 8 55.7	1.456	2.445	6.6	20.5	8 19	22 57.55	-16 49.3	0.991	1.984	8.1	19.1
8 29	22 48.76	- 9 59.1	1.452	2.460	1.9	20.2	8 29	22 48.78	-17 25.7	0.988	1.991	4.7	19.0
9 8	22 39.55	-11 0.1	1.475	2.476	3.5	20.3	9 8	22 39.64	-17 47.8	1.007	2.000	6.9	19.1
9 18	22 31.20	-11 51.8	1.524	2.490	8.1	20.7	9 18	22 31.68	-17 50.3	1.049	2.010	11.5	19.4
9 28	22 24.69	-12 29.2	1.597	2.505	12.2	20.9	9 28	22 26.17	-17 30.9	1.111	2.021	16.0	19.7
10 8	22 20.63	-12 50.0	1.692	2.520	15.6	21.2	10 8	22 23.79	-16 51.3	1.191	2.034	19.8	20.0
<b>202972</b>	1999 <i>TP</i> <sub>97</sub>	9 2.0 350°19' 4°1/29.9 18					<b>120776</b>	1998 <i>DQ</i> <sub>23</sub>	9 2.0 231°29' 12°7/27.8 18				
7 30	23 4.15	-13 47.5	1.219	2.129	16.0	18.8	7 30	23 33.36	-34 3.5	1.169	2.040	19.4	19.0
8 9	23 1.19	-14 43.0	1.159	2.120	11.8	18.6	8 9	23 23.43	-34 48.0	1.114	2.034	16.3	18.8
8 19	22 55.61	-15 46.7	1.119	2.113	7.3	18.3	8 19	23 9.20	-35 12.1	1.079	2.028	13.6	18.6
8 29	22 48.22	-16 49.5	1.102	2.106	4.1	18.1	8 29	22 52.16	-35 0.9	1.065	2.022	12.7	18.5
9 8	22 40.28	-17 41.5	1.109	2.101	6.5	18.2	9 8	22 34.72	-34 5.5	1.075	2.015	14.2	18.6
9 18	22 33.14	-18 14.8	1.138	2.098	11.1	18.5	9 18	22 19.27	-32 27.2	1.107	2.007	17.2	18.7
9 28	22 28.04	-18 24.9	1.188	2.095	15.5	18.7	9 28	22 7.65	-30 14.9	1.160	2.000	20.7	18.9
10 8	22 25.76	-18 11.4	1.257	2.094	19.3	19.0	10 8	22 0.61	-27 40.8	1.231	1.992	23.9	19.2
<b>285460</b>	1999 <i>XQ</i> <sub>254</sub>	9 2.0 155°10' 5°3/ 7.0 18					<b>506940</b>	2008 <i>GH</i> <sub>100</sub>	9 2.0 119°11' 1°4/31.8 17				
7 30	23 9.31	+ 8 20.5	2.084	2.883	14.7	20.9	7 30	23 10.80	- 8 50.8	1.649	2.525	14.4	21.8
8 9	23 4.00	+ 8 44.1	2.006	2.886	12.0	20.7	8 9	23 5.34	- 9 36.0	1.592	2.536	10.6	21.6
8 19	22 56.88	+ 8 49.6	1.949	2.889	9.1	20.6	8 19	22 57.76	-10 30.9	1.557	2.546	6.2	21.4
8 29	22 48.55	+ 8 36.7	1.917	2.892	6.4	20.4	8 29	22 48.81	-11 29.3	1.548	2.556	2.0	21.1
9 8	22 39.81	+ 8 7.6	1.911	2.895	5.3	20.3	9 8	22 39.55	-12 24.1	1.567	2.566	3.7	21.3
9 18	22 31.55	+ 7 26.2	1.932	2.897	6.8	20.5	9 18	22 31.05	-13 9.1	1.611	2.575	8.0	21.6
9 28	22 24.61	+ 6 38.2	1.980	2.899	9.6	20.6	9 28	22 24.28	-13 39.8	1.681	2.584	12.0	21.8
10 8	22 19.61	+ 5 49.6	2.052	2.901	12.4	20.8	10 8	22 19.88	-13 54.2	1.773	2.592	15.3	22.1
<b>418953</b>	2009 <i>FN</i> <sub>24</sub>	9 2.0 95°82' 3°2/30.5 17					<b>115916</b>	2003 <i>WB</i> <sub>8</sub>	9 2.0 277°73' 3°6/27.5 17				
7 30	23 12.55	-12 11.4	1.421	2.309	15.6	21.0	7 30	23 6.98	-19 4.1	3.152	4.024	8.4	20.2
8 9	23 6.80	-13 16.9	1.377	2.327	11.4	20.8	8 9	23 2.01	-20 19.0	3.046	3.985	6.3	20.0
8 19	22 58.65	-14 29.6	1.355	2.345	6.8	20.6	8 19	22 55.63	-21 36.6	2.967	3.946	4.3	19.8
8 29	22 49.03	-15 40.7	1.359	2.363	3.3	20.5	8 29	22 48.22	-22 51.8	2.918	3.905	3.6	19.7
9 8	22 39.19	-16 41.1	1.388	2.381	5.4	20.6	9 8	22 40.32	-23 59.5	2.899	3.864	5.0	19.8
9 18	22 30.36	-17 24.6	1.443	2.398	9.6	20.9	9 18	22 32.54	-24 55.5	2.909	3.821	7.2	19.9
9 28	22 23.59	-17 47.6	1.522	2.415	13.6	21.2	9 28	22 25.54	-25 36.7	2.945	3.778	9.6	20.0
10 8	22 19.49	-17 50.1	1.620	2.431	16.9	21.5	10 8	22 19.86	-26 2.0	3.005	3.735	11.7	20.1
<b>164020</b>	2003 <i>UC</i> <sub>219</sub>	9 2.0 306°88' 8°4/24.9 18					<b>390959</b>	2005 <i>OM</i> <sub>5</sub>	9 2.0 341°41' 1°9/ 3.2 17				
7 30	23 8.93	-26 42.3	1.649	2.543	13.5	18.9	7 30	23 3.35	- 3 6.8	1.065	1.962	18.9	20.5
8 9	23 4.38	-28 10.9	1.588	2.529	10.8	18.7	8 9	23 0.96	- 3 2.9	0.995	1.946	14.5	20.2
8 19	22 57.39	-29 34.7	1.550	2.515	8.8	18.6	8 19	22 55.70	- 3 18.9	0.943	1.931	9.3	19.8
8 29	22 48.74	-30 43.1	1.536	2.502	8.6	18.5	8 29	22 48.33	- 3 51.8	0.912	1.918	3.7	19.5
9 8	22 39.53	-31 27.6	1.546	2.488	10.4	18.6	9 8	22 40.15	- 4 34.8	0.902	1.906	3.5	19.4
9 18	22 31.02	-31 43.3	1.579	2.475	13.2	18.7	9 18	22 32.68	- 5 19.4	0.915	1.896	9.3	19.7
9 28	22 24.34	-31 29.2	1.634	2.462	16.1	18.9	9 28	22 27.38	- 5 56.5	0.948	1.888	14.8	20.0
10 8	22 20.28	-30 48.4	1.705	2.450	18.8	19.1	10 8	22 25.21	- 6 19.5	0.999	1.882	19.6	20.3
<b>479799</b>	2014 <i>FK</i> <sub>15</sub>	9 2.0 90°53' 2°0/31.4 18					<b>449083</b>	2012 <i>PY</i> <sub>17</sub>	9 2.0 257°62' 3°5/ 3.2 16				
7 30	23 12.35	-12 49.2	1.840	2.716	13.2	21.3	7 30	23 24.30	- 4 37.3	1.090	1.960	20.7	20.4
8 9	23 6.31	-13 4.4	1.778	2.722	9.7	21.1	8 9	23 16.74	- 3 21.0	1.018	1.952	16.1	20.1
8 19	22 58.25	-13 23.7	1.740	2.728	5.8	20.8	8 19	23 5.38	- 2 14.1	0.965	1.945	10.6	19.7
8 29	22 48.93	-13 42.3	1.728	2.734	2.3	20.6	8 29	22 51.19	- 1 17.8	0.934	1.938	5.0	19.4
9 8	22 39.32	-13 55.4	1.743	2.739	3.9	20.8	9 8	22 35.92	- 0 31.7	0.929	1.930	4.8	19.4
9 18	22 30.43	-13 59.4	1.786	2.745	7.7								